Data Review Thursday, October 04, 2001
Site Name: Allied Paper (MI)
Case Number: 29546 Laboratory: Southwest Laboratory
SDG: E00Y1

US EPA RECORDS CENTER REGION 5
560063

PCBs

Samples:

Sample No	Station Location	Matrix	Date Collected	Date Extracted	Date Analyzed
E00Y1	AP-SL029-33-03	Soil	07/30/01	08/02/01	08/22/01
E00Y2	AP-SL029-33-04	Soil	07/30/01	08/02/01	08/22/01
E00Y3	AP-SL029-34-01	Soil	07/30/01	08/02/01	08/22/01
E00Y4	AP-SL029-34-02	Soil	07/30/01	08/02/01	08/22/01
E00Y5	AP-SL029-34-03	Soil	07/30/01	08/02/01	08/22/01
E00Y6	AP-SL029-34-04	Soil	07/30/01	08/02/01	08/22/01
E00Y7	AP-SL029-34-05	Soil	07/30/01	08/02/01	08/22/01
E00Y8	AP-SL029-34-06	Soil	07/30/01	08/02/01	08/22/01
E00Y9	AP-SL029-34-07	Soil	07/30/01	08/02/01	08/22/01
E00Z0	AP-SL029-34-07DP	Soil	07/30/01	08/02/01	08/22/01
E00Z1	AP-SL029-11-01	Soil	07/31/01	08/02/01	08/22/01
E00Z2	AP-SL029-11-02	Soil	07/31/01	08/02/01	08/22/01
E00Z3	AP-SL029-11-03	Soil	07/31/01	08/02/01	08/22/01
E00Z4	AP-SL029-11-04	Soil	07/31/01	08/02/01	08/22/01
E00Z5	AP-SL029-11-05	Soil	07/31/01	08/02/01	08/23/01
E00Z6	AP-SL029-11-06	Soil	07/31/01	08/02/01	08/23/01
E00Z7	AP-SL029-11-07	Soil	07/31/01	08/27/01	09/06/01
E00Z8	AP-SL029-19-01	Soil	07/31/01	08/02/01	08/23/01
E00Z9	AP-SL029-19-02	Soil	07/31/01	08/02/01	08/23/01
E0100	AP-SL029-19-03	Soil	07/31/01	08/02/01	08/23/01

Holding Time:

All samples were extracted and analyzed within the required holding time. The samples arrived in a cooler at 2.1 & 5.4 degrees Celsius.

Method Blank:

Four method blanks PBLKSE, PBLKS1, PBLKS2, and PBLKS3 were associated with this SDG. PBLKSE was analyzed on 08/22/01 with (E00Y1 thru E00Y9, E00Z0 thru E00Z6, E00Z8, E00Z9, E0100, and MS/MSD). PBLKS1 was analyzed on 08/29/01 with (E00Y3DL, E00Y4DL, E00Y5DL, E00Z1DL, and E0100DL). PBLKS2 was analyzed on 09/07/01 with (E00Z2DL, E00Z3DL, and E00Z4DL). PBLKS3 was analyzed on 09/01/01 with (E00Z9RE, E00Z9REDL, and E00Z7). The PBLKSE, PBLKS1, PBLKS2, and PBLKS3 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 in E00Z1 (DCB2 293%), E00Z4 (DCB2 174%), E00Z9 (DCB1 271%, DCB2 287%), E0100 (DCB2 207%), E00Z9RE (DCB1 310%, DCB2 252%), and diluted out in E00Z1DL (DCB1 753D%, DCB2 305D%), and E00Z9REDL (DCB1 416D%, DCB2 296D%). Therefore, qualify the detected results in E00Z1, E00Z4, E00Z9, E0100, E00Z9RE, E00Z1DL, and E00Z9REDL as estimated (J).

Matrix Spike/ Matrix Spike Duplicate Recovery:
The matrix spike/ matrix spike duplicate audit was performed on sample E00Z1. The matrix spike duplicate and the relative percent difference (RPD %) recoveries were within the quality control limits. The matrix spike recovery was (0%) outside the quality control limits (29-135%). Therefore, qualify aroclor-1254 in E00Z1 as estimated (J).

Laboratory Control Sample Recovery:
The two laboratories control sample/laboratories control sample duplicates, and the (RPD%) relative percent difference recoveries 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 calibration verification recoveries were within the acceptance limit, except in aroclor 1260 #1, #2, #4 in RTX-PEST 2 column were analyzed on 08/22/01 at 1958, 2022. Also, in aroclor 1016 #3, #4, #5, 1260 #1, #2, #4, #5 in RTX-PEST 2 column and aroclor 1016 for all five levels, 1260 #1, #4, #5 in RTX-PEST column were analyzed on 08/23/01 at 0337, 0402. And in both aroclor 1016, and 1260 for both columns in all five levels were analyzed 09/06/01 at 1432, 1459. Also, in both aroclor 1016, 1260 in RTX-PEST column were analyzed on 09/06/01 at 1432, 1527 and outside the acceptable limits (an average RSD 15%). Therefore, qualify the results for all the seven aroclor in the following associated samples: E00Z0 thru E00Z9, and E0100 as estimated (J/UJ).

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: 10/04/01

067-4A-AAWQ

DATE: September 25, 2001

CC: D. Geens
J. Thorsen
R. Mehl
T. Bauer

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
29546	SOUTHWEST	20	E00Y1	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
SEP 27 2001

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

TB
TBS

SEP 2 5 2001

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 9/17/01

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: 29546 SDG NUMBER: E0041

Number and Type of Samples: 20 (soil)

Sample Numbers: E0041-9, E0020-9, E0100

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: E00Y1 CERCLIS No: MID006007306

Case No: 29546 Site Name/Location: Allied Paper

Contractor or EPA Lab: SWOK Data User: Weston

No. of Samples: 20 Date Sampled or Date Received: 9/17/01

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: 9/17/01

Received by LSSS: Nicole Jackson/ESAT Date: 9/17/01

Review started: ____ Reviewer Signature: ____

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

Copied by: Nicole Jackson/ESAT Date: 9/25/01

Mailed to user by: Nicole Jackson/ESAT Date: 9/25/01

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: ____

CASE FILE (CSF) INVENTORY CHECKLIST

Case No. 29546 SDG No. E00Y1 SDG Nos. to Follow _____ _____ _____ SAS No. _____ Date Recvd 9/17/10

EPA Lab ID: SWOK	ORIGINALS	YES	NO	N/A
Lab Location: Broken Arrow, OK	CUSTODY SEALS			
Region: 5 Audit No:	1. Present on package?	✓		
Re-Submitted CSF? Yes ____ No ✓	2. Intact upon receipt?	✓		
Box No (s): _____	FORM DC-2			
COMMENTS:	3. Numbering scheme accurate?			
	4. Are enclosed documents listed?			
	5. Are listed documents enclosed?			
	FORM DC-1			
	6. Present?			
	7. Complete?			
	8. Accurate?			
	CHAIN-OF-CUSTODY RECORD(s)			
	9. Signed?			
	10. Dated?			
	TRAFFIC REPORT (s) / PACKING LIST(s)			
	11. Signed?			
	12. Dated?			
	AIRBILLS / AIRBILL STICKER			
	13. Present?			
	14. Signed?			
	15. Dated?			
	SAMPLE TAGS			
	16. Does DC-1 list tags as being included?			
	17. Present?			
	OTHER DOCUMENTS			
	18. Complete?			
	19. Legible?			
	20. Original?			
Over for additional comments.	If 'NO', does the copy indicate where the original documents are located?			

Received by: Nicole Jackson Nicole Jackson/ESAT Date 9/17/01

Audited by: _____ _____ Date / /

Audited by: _____ _____ Date / /
Signature Printed Name/ Title

TO BE COMPLETED BY CEAT

Date Recvd by CEAT: / / Date Entered: / / Date Reviewed: / /

Entered by: _____ _____

Reviewed by: _____ _____
Signature Printed Name/ Title

ESAT Tracking Log-In Sheet

Data Review Level 1
# of Folders 2

SOW Version # 4.2
Site/Project ID: 059BLA00

DATE RECEIVED AT CRL 9/17/01

USER Weston

SITE NAME Allied Paper (MI)

CASE/SAS NUMBER 29546

SDG. NO. E00Y1

SAMPLING DATE 7/30/01

DATE SHIPPED 7/31/01

CONTRACT LAB Southwest

NUMBER OF SAMPLES 20

DATE TO ETM

SAMPLES	MATRIX			ANALYSES
E00Y1-9	Soil	Water	Other	PCBs
E0020-9	Soil	Water	Other	
E0100	Soil	Water	Other	
	Soil	Water	Other	
	Soil	Water	Other	
	Soil	Water	Other	
	Soil	Water	Other	
	Soil	Water	Other	
	Soil	Water	Other	
	Soil	Water	Other	
	Soil	Water	Other	
	Soil	Water	Other	

ANALYSES: V = Volatiles SV = Semivolatiles P/P = Pesticides D = Dioxin
TM = Total Metals CN = Cyanide Hg = Mercury

* MAKE SURE YOU LOG DATA CASES INTO THE CASES TO LSSS BOOK *

SEP 17 2001

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME SOUTHWEST LABORATORY OF OKLAHOMA
CITY/STATE BROKEN ARROW, OKLAHOMA
CASE NO. 29546 SDG NO. E0071 SDG NOS. TO FOLLOW
SAS NO.
CONTRACT NO. 68W99079
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	1	KK	
3. SDG Cover Sheet/Traffic Report	3	5		
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. 29546 SDG NO. E0041 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	6	8		
MS/MSD Duplicate Summary (Form III PEST)	9	11		
Method Blank Summary (Form IV PEST)	12	15		

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

CASE NO. 29546 SDG NO. E0041 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. Pesticides Data (Cont.)				
b. Sample Data	16	259		
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	260	640		
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	641	712		
Matrix Spke/Matrix Spike Duplicate Data	713	738		

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

CASE NO. 29546 SDG NO. E0041 SDG NOS. TO FOLLOW _____

SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. Pesticides Data (Cont.)				
e. Raw GPC Data	739	810	VL	
f. Raw Florisil Data	NA	NA	VL	
7. Miscellaneous Data				
Original preparation and analysis forms or of preparation and analysis logbook pages	811	828		
Internal sample and sample extract transfer chain-of-custody records	829	834		
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 2)	835	836		
Chain-of-Custody Records	837	838		
Sample Tags	839	858		
Sample Log-in Sheet (Lab & DC1)	859	862		
Miscellaneous Shipping/Receiving Records (describe or list)				
Memos, Changes, Analytical Request	863	870		
	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:

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

CASE NO. 29546 SDG NO. E0041 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	(Signature)	(Printed Name/Title)	(Date)
Completed by: (CLP Lab)	Emma Morton	Emma Morton Data Clerk	9-12-01
Verified by: (CLP Lab)	Kristin Rodriguez	Kristin Rodriguez Data Clerk	9-13-01
Audited by: (EPA)			

SEP 1 7 2001

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

SDG NARRATIVE

September 12, 2001

CONTRACT: 68W99079

CASE NO: 29546

SDG NO: E00Y1

SAMPLES: E00Y1, E00Y2, E00Y3, E00Y3DL, E00Y4, E00Y4DL, E00Y5, E00Y5DL, E00Y6, E00Y7, E00Y8, E00Y9, E00Z0, E00Z1, E00Z1DL, E00Z1MS, E00Z1MSD, E00Z2, E00Z2DL, E00Z3, E00Z3DL, E00Z4, E00Z4DL, E00Z5, E00Z6, E00Z7, E00Z8, E00Z9, E009RE, E00Z9REDL, E0100 and E0100DL.

FRACTION: Pesticide/PCB

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

Columns: The soil samples were analyzed on J&W dual analytical columns DB-17MS (proprietary phase composition, length 30m, id 0.32 mm, film thickness 0.5 um) and DB-XLB (proprietary phase composition, length 30m, id 0.32 mm, film thickness 0.25 um) columns and Restek dual analytical columns RTX-PEST (also known as PEST I)(proprietary phase composition, length 30m, id 0.32 mm, film thickness 0.5 um) and RTX-PEST 2 (also known as PEST II) (proprietary phase composition, length 30m, id 0.32 mm, film thickness 0.25 um) columns which 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 used as the carrier gas.

The following samples are considered billable since these samples required dilutions to get target compounds within instruments linear range: E00Y3DL, E00Y4DL, E00Y5DL, E00Z1DL, E00Z2DL, E00Z3DL, E00Z4DL, E00Z9REDL and E0100DL.

The following sample in this SDG is considered billable since this sample was re-extracted to verify high surrogate recoveries for DCB: E00Z9RE.

The sample cooler arrived at 2.1 & 5.4 degrees Celsius. Note: No custody seals were present on the coolers (see e-mail).

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. As per e-mail correspondence of 8/24/01 the laboratory had made a modification for initial dilution and if PCBs are within instruments linear range no 10X more concentrated analyses will be performed by the laboratory.

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

Surrogates: All surrogates were within QC limits with the following exceptions: Samples E00Z1, E00Z1MS, E00Y4 and E0100 had high recovery for DCB on one column. Samples were not re-extracted since DCB was out high on only one column. Sample E00Z1MSD had high recovery for DCB on both columns, this sample was not re-extracted since it was the MSD and the sample and MS each had the surrogate out on one column. Sample E00Z9 had DCB outside of QC limits on both columns. The samples was re-extracted and again had surrogates out on both columns. The original analyses was not diluted since surrogates were outside of QC limits. The re-extract was diluted for target compounds above instruments

linear range.

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. E00Z1MS had 0% recovery and E00Z1msd had 515%, recovery. Note amount found in sample was ~ 20X higher than amount spiked.

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 Aroclor 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 Aroclors 1016 and 1260. All percent differences were within QC limits (average of all peaks at ≥ 15%), with the following exceptions: AR1660L3AB analyzed on 08/22/01 at 2022 hrs had high %D on RTX-PEST 2 column for aroclor 1260 at 25.2%. AR1660L3AD analyzed on 08/23/01 at 0402 hrs had high %D on RTX-PEST 2 column for aroclor 1016 at 21.3% and for aroclor 1260 at 35.1%. AR1660L3AD analyzed on 08/23/01 at 0402 hrs had high %D on RTX-PEST column for aroclor 1016 at 19.1% and for aroclor 1260 at 16.4%. AR1660L3CA analyzed on 09/06/01 at 1459 hrs had high %D on RTX-PEST 2 column for aroclor 1016 at 27.3% and for aroclor 1260 at 31.3%. AR1660L3CA analyzed on 09/06/01 at 1459 hrs had high %D on RTX-PEST column for aroclor 1016 at 36.8% and for aroclor 1260 at 37.2%. AR1660L3CB analyzed on 09/06/01 at 1527 hrs had high %D on RTX-PEST column for aroclor 1016 at 16.8% and for aroclor 1260 at 21.6%.

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/her designee, as verified by the following signature.

Harry M. Borg

Harry M. Borg
Organic Program Manager September 12, 2001

Contract Laboratory Program

Sample Delivery Group (SDG) Cover Sheet

SDG Number E00Y1

Laboratory Name Southwest Laboratory of Ok. Laboratory Code SWOK

Contract No. 68W99079 Case No. ~~OLM04.2~~ 29546

Analyses Price 910.40 SDG Turnaround 7

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E00Y1	7) E00Y7	13) E00Z3	19) E00Z9
2) E00Y2	8) E00Y8	14) E00Z4	20) E0100
3) E00Y3	9) E00Y9	15) E00Z5	21)
4) E00Y4	10) E00Z0	16) E00Z6	22)
5) E00Y5	11) E00Z1	17) E00Z7	23)
6) E00Y6	12) E00Z2	18) E00Z8	24)

8/8/01 ST

E00Y1	E0100
First Sample in SDG	Last Sample in SDG
08/01/2001	08/01/2001
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 Boy Date 8-2-01

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

Case No:	29546
DAS No:	
SDG No:	E00Y1

L

Date Shipped:	7/31/2001
Carrier Name:	FedEx
Airbill:	821876980330
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)
[illegible]	7.31.01 1730	[illegible]	8.01.01 8:40
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 E00Y1 Sample Condition On Receipt
E00Z1	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038309 (Ice Only) (1)	AP-SL029-11-01	S:	7/31/2001	8:20		ok
E00Z2	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038310 (Ice Only) (1)	AP-SL029-11-02	S:	7/31/2001	8:22		
E00Z3	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038311 (Ice Only) (1)	AP-SL029-11-03	S:	7/31/2001	8:27		8-1-01
E00Z7	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038315 (Ice Only) (1)	AP-SL029-11-07	S:	7/31/2001	9:10		
E00Z8	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038316 (Ice Only) (1)	AP-SL029-19-01	S:	7/31/2001	10:40		
E00Z9	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038317 (Ice Only) (1)	AP-SL029-19-02	S:	7/31/2001	10:42		
E00Z4	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038312 (Ice Only) (1)	AP-SL029-11-04	S:	7/31/2001	8:27		
E00Z5	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038313 (Ice Only) (1)	AP-SL029-11-05	S:	7/31/2001	8:35		
E00Z6	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038314 (Ice Only) (1)	AP-SL029-11-06	S:	7/31/2001	8:58		
E0100	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038318 (Ice Only) (1)	AP-SL029-19-03	S:	7/31/2001	10:47		

* SDG Final Sample

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:
	E00Z1, E0102, E0121		2.1 TB.	177816, 177817

Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y
PCBs = PCBs				

R Number: 5-490998136-073101-0002

LABORATORY COPY

R provides preliminary results. Requests for preliminary results will increase analytical costs.
nd 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:	29546
DAS No:	
SDG No:	E00Y1 8/1/01

L

Date Shipped:	7/31/2001
Carrier Name:	FedEx
Airbill:	821876980270
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	7-31-01 1730	3	8-1-01 8:40
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 E00Y1
E00Y1	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038299 (Ice Only) (1)	AP-SL029-33-03	S:	7/30/2001	14:30		OK
E00Y2	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038300 (Ice Only) (1)	AP-SL029-33-04	S:	7/30/2001	14:40		8-1-01
E00Y3	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038301 (Ice Only) (1)	AP-SL029-34-01	S:	7/30/2001	16:10		
E00Y4	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038302 (Ice Only) (1)	AP-SL029-34-02	S:	7/30/2001	16:15		
E00Y5	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038303 (Ice Only) (1)	AP-SL029-34-03	S:	7/30/2001	16:20		
E00Y6	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038304 (Ice Only) (1)	AP-SL029-34-04	S:	7/30/2001	16:50		
E00Y7	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038305 (Ice Only) (1)	AP-SL029-34-05	S:	7/30/2001	16:55		
E00Y8	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038306 (Ice Only) (1)	AP-SL029-34-06	S:	7/30/2001	16:55		
E00Y9	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038307 (Ice Only) (1)	AP-SL029-34-07	S:	7/30/2001	17:00		
E00Z0	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038308 (Ice Only) (1)	AP-SL029-34-07DP	S:	7/30/2001	17:00		

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: E00Q2, E00S3, E00W1	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5.4 T.B.	Chain of Custody Seal Number: 177814, 177815
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

No Seals

R Number: 5-490998136-073101-0001

LABORATORY COPY

R provides preliminary results. Requests for preliminary results will increase analytical costs.
nd 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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column(1): RTX-PEST 2 ID: 0.32(mm) GC Column(2): RTX-PEST ID: 0.32(mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	TOT OUT
01	PBLKSE	63	61	87	87	0
02	PBLKS1	84	83	101	107	0
03	PBLKS3	83	84	100	119	0
04	ELCS1	63	66	82	83	0
05	ELCS2	70	75	91	92	0
06	E00Y1	74	80	100	100	0
07	E00Y2	70	76	91	91	0
08	E00Y3	54	68	112	135	0
09	E00Y4	75	78	135	154	0
10	E00Y5	75	84	98	131	0
11	E00Y6	74	86	91	96	0
12	E00Y7	69	80	89	90	0
13	E00Y8	65	77	83	87	0
14	E00Y9	62	71	84	85	0
15	E00Z0	63	68	83	85	0
16	E00Z1	66	75	161	293*	1
17	E00Z1MS	65	68	170	236*	1
18	E00Z1MSD	71	85	183*	273*	2
19	E00Z2	58	64	119	150	0
20	E00Z3	64	76	113	127	0
21	E00Z4	84	104	132	174*	1
22	E00Z5	56	71	73	84	0
23	E00Z6	88	104	111	134	0
24	E00Z8	71	81	113	110	0
25	E00Z9	76	91	271*	287*	2
26	E0100	85	102	168	207*	1
27	E00Y3DL	56	47	131	95	0
28	E00Y4DL	80	68	171D	125	0
29	E00Y5DL	70	64	129	86	0
30	E00Z1DL	74	72	753D	305D	0

	QC LIMITS
TCX = Tetrachloro-m-xylene	(0-600)
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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column(1): RTX-PEST 2 ID: 0.32(mm) GC Column(2): RTX-PEST ID: 0.32(mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	TOT OUT
01	E0100DL	94	89	219D	169	0
02	ELCS3	75	77	84	101	0
03	ELCS4	78	72	80	90	0
04	E00Z9RE	107	99	310*	252*	2
05	E00Z9REDL	104	90	416D	296D	0
06	E00Z7	66	55	61	62	0
07						
08						
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30						

	QC LIMITS
TCX = Tetrachloro-m-xylene	(0-600)
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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

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	PBLKS2	66	77	78	83	0
02	E00Z2DL	90	86	111	163	0
03	E00Z3DL	94	78	107	129	0
04	E00Z4DL	59	77	155	140	0
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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

SOIL AROCLOR LABORATORY CONTROL SPIKE/ DUPLICATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

LCS Sample NO.: ELCS1

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aroclor-1254	133	124	93	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	133	131	98	5	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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

LCS Sample NO.: ELCS3

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

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	133	126	95	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: _____

3F

SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix Spike - Client Sample NO.: E00Z1

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aroclor-1254	195	4390	4350	0*	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	194	5390	515 *	21	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: 2 out of 2 outside limits

Comments: _____

4C

AROCLOR METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLKS1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: BL0802SE Lab File ID: 16082852

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

Sulfur Cleanup: (Y/N) Y Date Extracted: 08/02/01

Date Analyzed (1): 08/29/01 Date Analyzed (2): 08/29/01

Time Analyzed (1): 0929 Time Analyzed (2): 0929

Instrument ID (1): HP_16A Instrument ID (2): HP_16B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST 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	E00Y3DL	47166.03DL	08/29/01	08/29/01
02	E00Y4DL	47166.04DL	08/29/01	08/29/01
03	E00Y5DL	47166.05DL	08/29/01	08/29/01
04	E00Z1DL	47166.11DL	08/29/01	08/29/01
05	E0100DL	47166.22DL	08/29/01	08/29/01
06				
07				
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Comments: _____

page 1 of 1

FORM IV PCB

4C

AROCLOR METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLKSE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: BL0802SE Lab File ID: 14082207

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

Sulfur Cleanup: (Y/N) Y Date Extracted: 08/02/01

Date Analyzed (1): 08/22/01 Date Analyzed (2): 08/22/01

Time Analyzed (1): 1242 Time Analyzed (2): 1242

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST 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	LC0802SE	08/22/01	08/22/01
02	ELCS2	LD0802SE	08/22/01	08/22/01
03	E00Y1	47166.01	08/22/01	08/22/01
04	E00Y2	47166.02	08/22/01	08/22/01
05	E00Y3	47166.03	08/22/01	08/22/01
06	E00Y4	47166.04	08/22/01	08/22/01
07	E00Y5	47166.05	08/22/01	08/22/01
08	E00Y6	47166.06	08/22/01	08/22/01
09	E00Y7	47166.07	08/22/01	08/22/01
10	E00Y8	47166.08	08/22/01	08/22/01
11	E00Y9	47166.09	08/22/01	08/22/01
12	E00Z0	47166.10	08/22/01	08/22/01
13	E00Z1	47166.11	08/22/01	08/22/01
14	E00Z1MS	47166.12MS	08/22/01	08/22/01
15	E00Z1MSD	47166.13MSD	08/22/01	08/22/01
16	E00Z2	47166.14	08/22/01	08/22/01
17	E00Z3	47166.15	08/22/01	08/22/01
18	E00Z4	47166.16	08/22/01	08/22/01
19	E00Z5	47166.17	08/23/01	08/23/01
20	E00Z6	47166.18	08/23/01	08/23/01
21	E00Z8	47166.20	08/23/01	08/23/01
22	E00Z9	47166.21	08/23/01	08/23/01
23	E0100	47166.22	08/23/01	08/23/01
24				
25				
26				

Comments:

page 1 of 1

FORM IV PCB

4C

AROCLOR METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLKS2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: BL0802SE Lab File ID: 15090705

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

Sulfur Cleanup: (Y/N) Y Date Extracted: 08/02/01

Date Analyzed (1): 09/07/01 Date Analyzed (2): 09/07/01

Time Analyzed (1): 1445 Time Analyzed (2): 1445

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	E00Z2DL	47166.14DL	09/07/01	09/07/01
02	E00Z3DL	47166.15DL	09/07/01	09/07/01
03	E00Z4DL	47166.16DL	09/07/01	09/07/01
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Comments: _____

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FORM IV PCB

4C

AROCLOR METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLKS3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: BB0827SE Lab File ID: 16083131

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

Sulfur Cleanup: (Y/N) Y Date Extracted: 08/27/01

Date Analyzed (1): 09/01/01 Date Analyzed (2): 09/01/01

Time Analyzed (1): 0210 Time Analyzed (2): 0210

Instrument ID (1): HP_16A Instrument ID (2): HP_16B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST 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	LC0827SE	09/01/01	09/01/01
02	ELCS4	LD0827SE	09/01/01	09/01/01
03	E00Z9RE	47166.21RE	09/01/01	09/01/01
04	E00Z9REDL	47166.21REDL	09/01/01	09/01/01
05	E00Z7	47166.19	09/06/01	09/06/01
06				
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Comments:

page 1 of 1

HYDROGEN USED AS CARRIER GAS FOR SAMPLE ANALYSES

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Y1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.01

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

% Moisture: 7 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

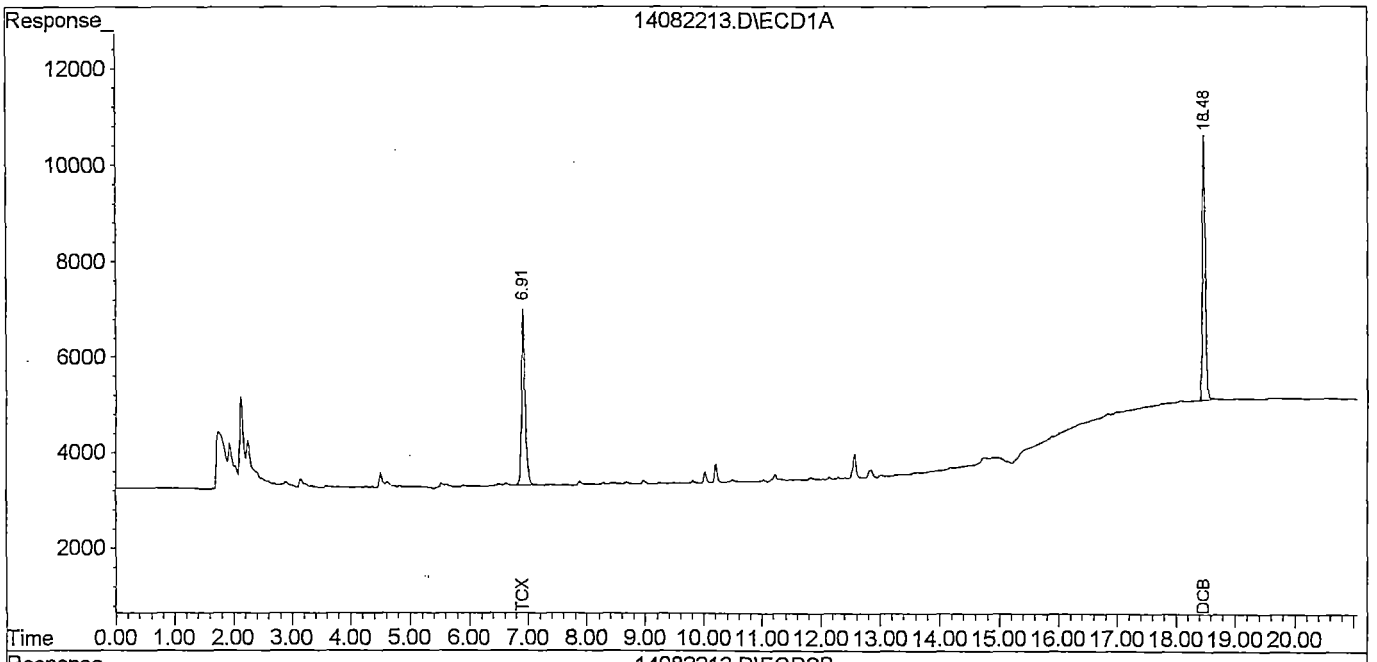
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	35	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U
Surrogate amount spiked		7.10	

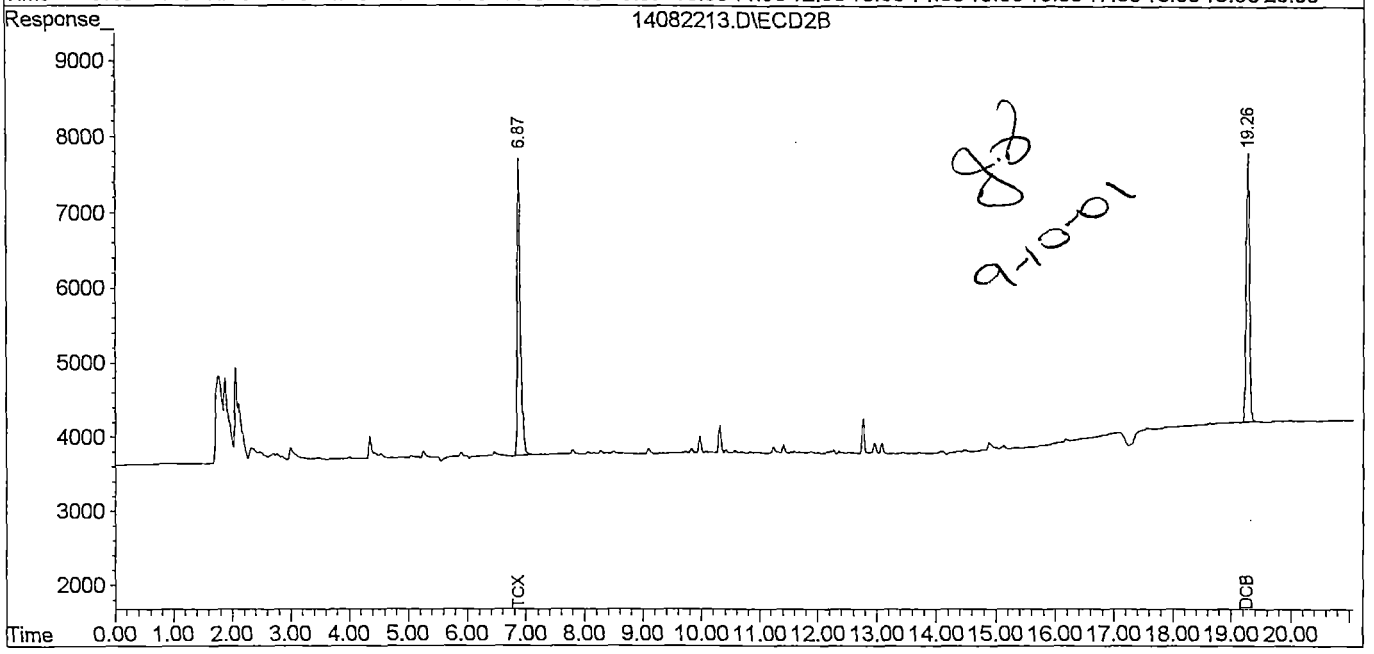
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082213.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082213.D\ECD2B.CH
Acq On : 22 Aug 2001 15:07 Operator: TLM
Sample : 47166.01 *E00Y1 * Inst : HP_14
Misc : *EPA*30.3G/5.0ML*7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 15:22 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082213.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082213.D\ECD2B.CH
Acq On : 22 Aug 2001 15:07 Operator: TLM
Sample : 47166.01 *E00Y1 * Inst : HP_14
Misc : *EPA*30.3G/5.0ML*7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 15:22 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	152711	150252	5.268	5.672
	Spiked Amount 7.097			Recovery	=	74.22%	79.92%
22)	S DCB	18.48	19.27	201389	128638	7.094	7.066
	Spiked Amount 7.097			Recovery	=	99.95%	99.56%

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Y2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.02

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

% Moisture: 5 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

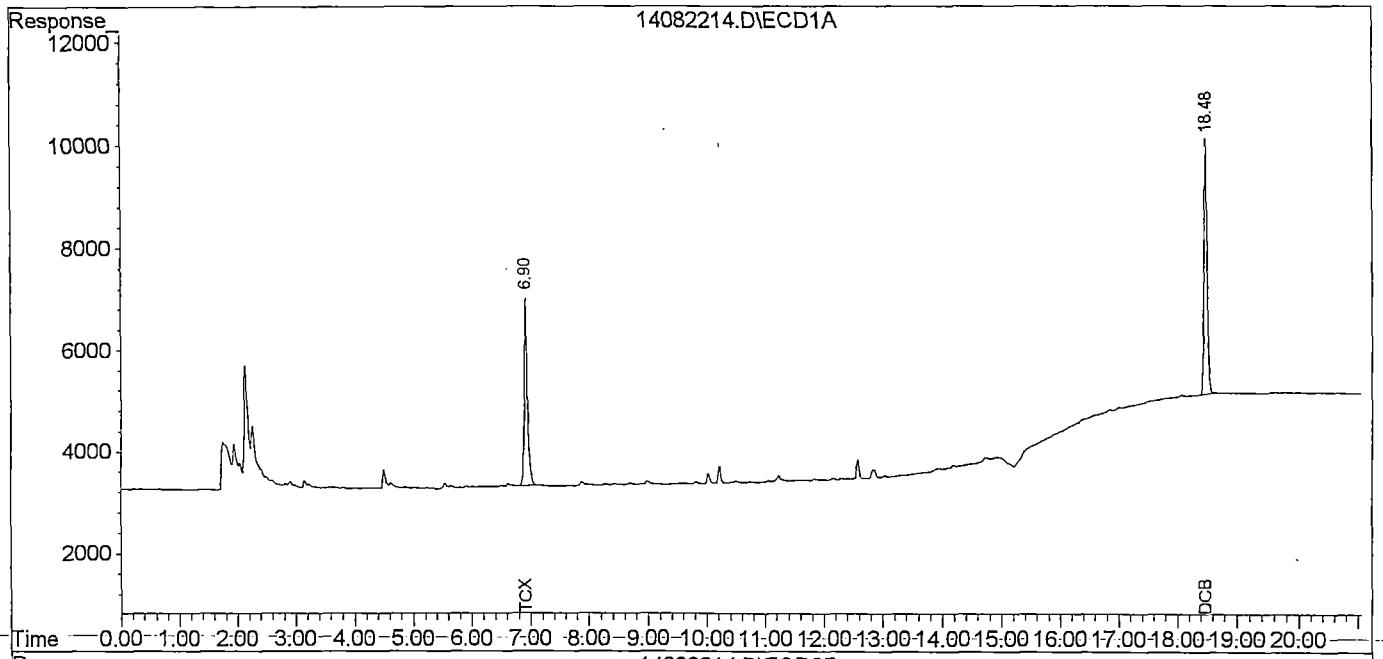
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	35	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U
Surrogate amount spiked		6.99	

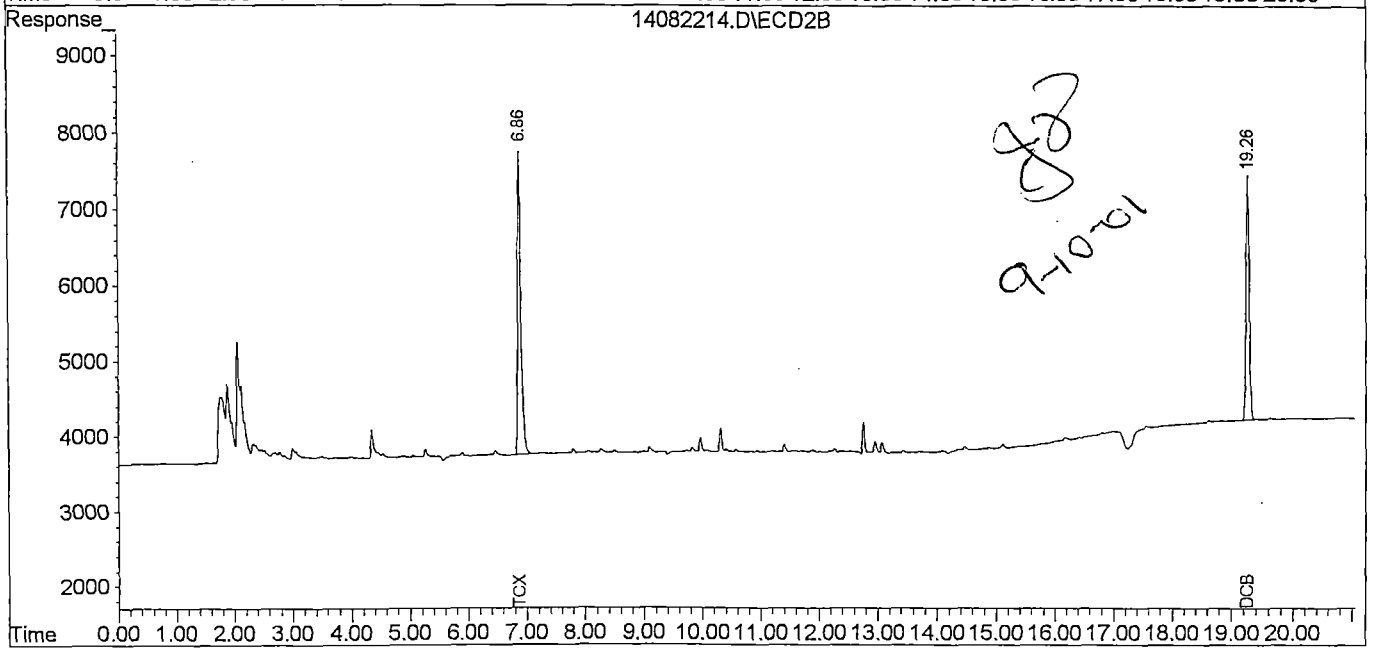
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082214.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082214.D\ECD2B.CH
Acq On : 22 Aug 2001 15:31 Operator: TLM
Sample : 47166.02 *E00Y2 * Inst : HP_14
Misc : *EPA*30.1G/5.0ML*5 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 15:23 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





9-10-01

Quantitation Report

```
Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082214.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082214.D\ECD2B.CH
Acq On    : 22 Aug 2001  15:31                        Operator: TLM
Sample    : 47166.02  *E00Y2  *                       Inst    : HP_14
Misc      : *EPA*30.1G/5.0ML*5                        Dilution: 1.00
IntFile Signal #1: events1.e     IntFile Signal #2: events2.e
Quant Time: Aug 25 15:23 2001  Quant Results File: XPCBH20.RES

Method       : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path   : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update  : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj.      : 0.5uL
Signal #1 Phase : RTX-PEST 2        Signal #2 Phase: RTX-PEST
Signal #1 Info  : .32 mm            Signal #2 Info : .32 mm
Signal #1 Inst  : HP_14A            Signal #2 Inst : HP_14B
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	144430	142948	4.910	5.318
	Spiked Amount 6.994			Recovery	=	70.20%	76.03%
22)	S DCB	18.48	19.27	182478	117487	6.335	6.360
	Spiked Amount 6.994			Recovery	=	90.57%	90.93%

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Y3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.03

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

% Moisture: 26 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
12674-11-2	Aroclor-1016	44	U	
11104-28-2	Aroclor-1221	44	U	
11141-16-5	Aroclor-1232	44	U	
53469-21-9	Aroclor-1242	~~1300~~	~~E~~	1500 D
12672-29-6	Aroclor-1248	44	U	
11097-69-1	Aroclor-1254	~~1900~~	~~E~~	2300 D
11096-82-5	Aroclor-1260	~~730~~	~~E~~	830 D
Surrogate amount spiked		8.92		

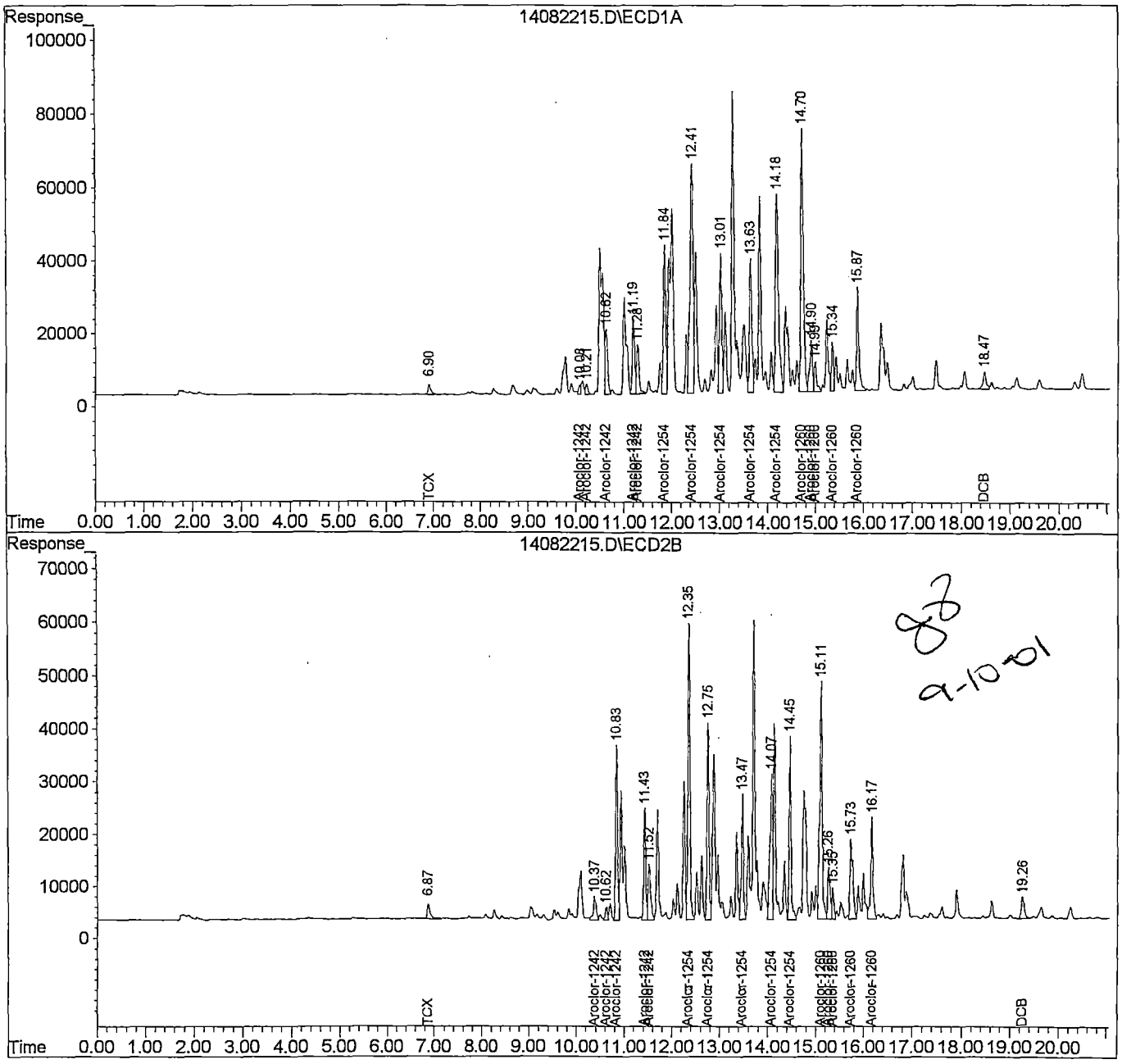
TB
10/8/01

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082215.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082215.D\ECD2B.CH
Acq On : 22 Aug 2001 15:55 Operator: TLM
Sample : 47166.03 *E00Y3 * Inst : HP_14
Misc : *EPA*30.3G/5.0ML*26 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 15:06 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B



8
9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082215.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082215.D\ECD2B.CH
Acq On : 22 Aug 2001 15:55 Operator: TLM
Sample : 47166.03 *E00Y3 * Inst : HP_14
Misc : *EPA*30.3G/5.0ML*26 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 15:06 2001 Quant Results File: XPCBH20.RES

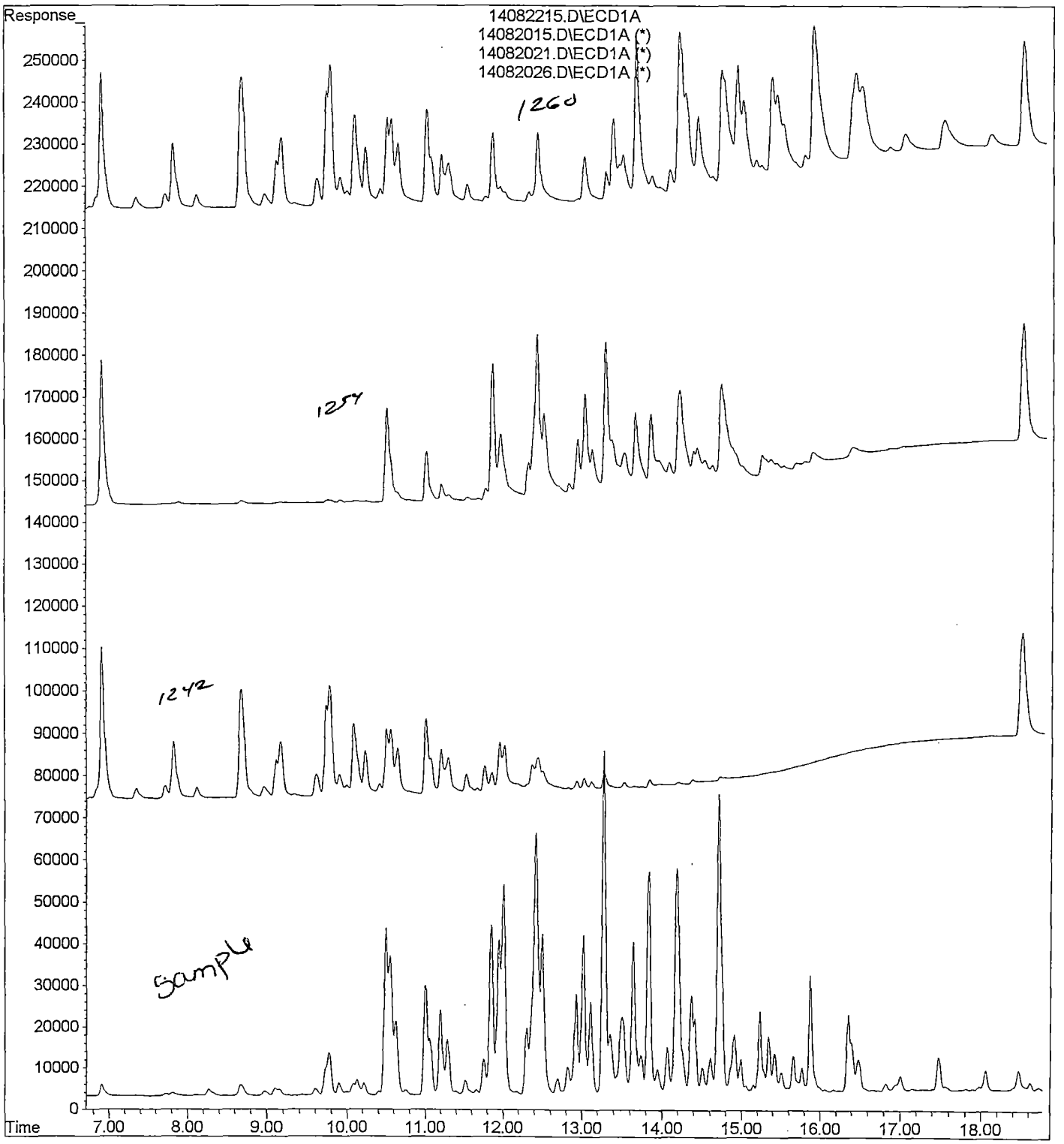
Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

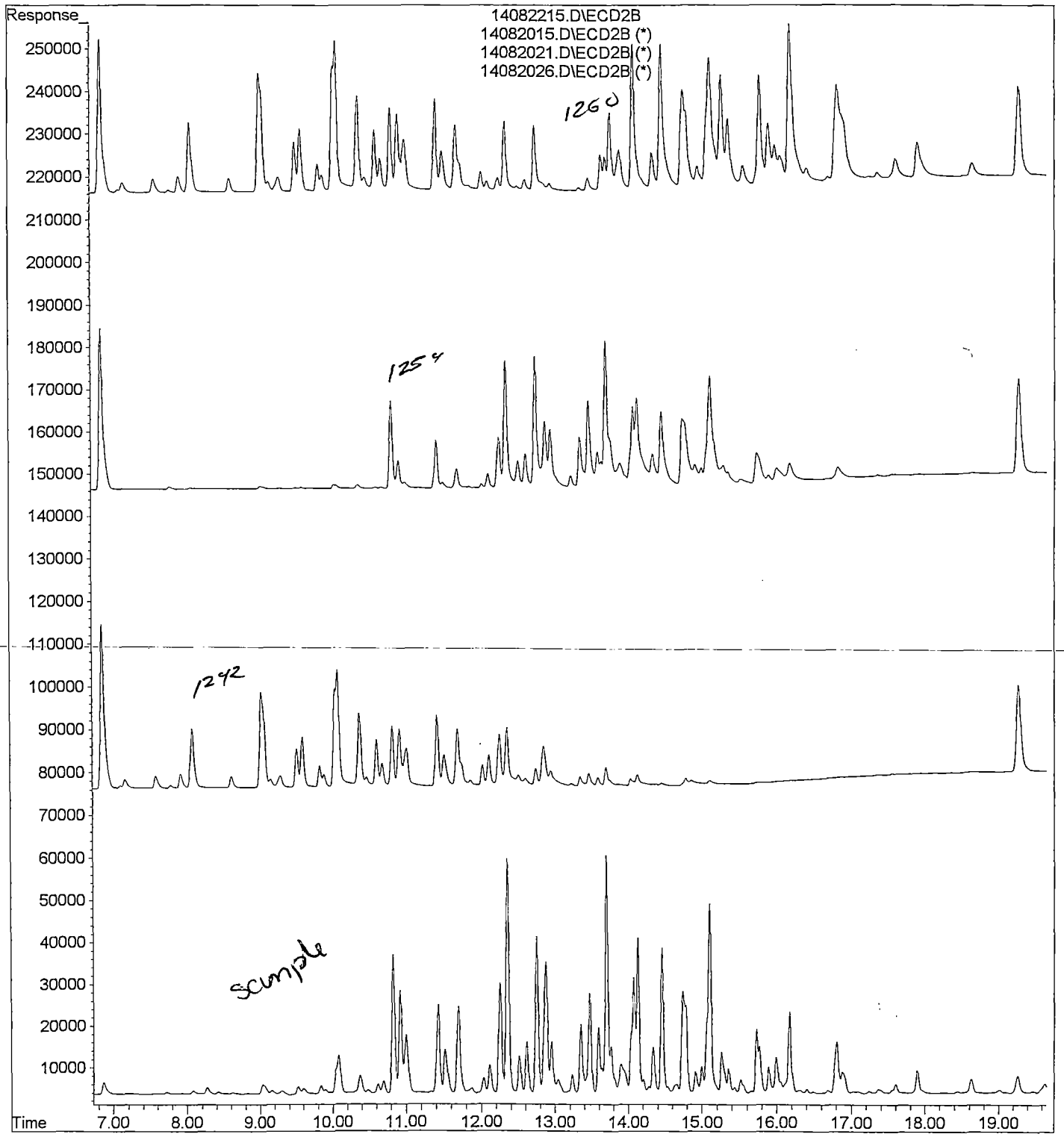
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	6.91	6.87	110854	127358	4.806	6.042	#
	Spiked Amount 8.920			Recovery	=	53.88%	67.74%	
22)	S DCB	18.48	19.27	225781	174711	9.996	12.1	
	Spiked Amount 8.920			Recovery	=	112.07%	135.65%	
	Target Compounds:							
7)	L4 Aroclor-1242	10.08	10.38	71403	199429	122.7	452.5	#
8)	L4 Aroclor-1242 {2}	10.22	10.62	108192	80991	339.3	358.3	
9)	L4 Aroclor-1242 {3}	10.62	10.83	654455	981128	1813.8 E	3289.5	E#
10)	L4 Aroclor-1242 {4}	11.19	11.43	711602	638894	2804.9 E	1875.3	E#
11)	L4 Aroclor-1242 {5}	11.28	11.52	531762	407401	1641.4 E	2007.2	E
	Sum Aroclor-1242			2077414	2307843	6722.1	7982.7	
	Average Aroclor-1242					1344.422	1596.537	
12)	L6 Aroclor-1254	11.84	12.35	1387710	1696937	1582.9 E	2287.6	E#
~~13)~~	~~L6 Aroclor-1254 {2}~~	~~12.41~~	~~12.75~~	~~2897155~~	~~1077779~~	~~2180.9 E~~	~~1497.5~~	~~E#~~
14)	L6 Aroclor-1254 {3}	13.02	13.47	1294865	722873	1973.1 E	1488.5	E
15)	L6 Aroclor-1254 {4}	13.64	14.08	1251686	970533	2076.7 E	2167.1	E
16)	L6 Aroclor-1254 {5}	14.18	14.46	2517033	975846	2666.1 E	1868.9	E#
	Sum Aroclor-1254			9348449	5443969	10479.6	9309.7	
	Average Aroclor-1254					2095.915	1861.939	
17)	L7 Aroclor-1260	14.70	15.11	2817832	1637955	1896.2 E	1336.9	E#
18)	L7 Aroclor-1260 {2}	14.90	15.26	586575	355203	669.0	512.9	
19)	L7 Aroclor-1260 {3}	14.99	15.36	285156	169894	394.2	359.3	
20)	L7 Aroclor-1260 {4}	15.35	15.73f	406378	658206	629.5	960.1	E#
21)	L7 Aroclor-1260 {5}	15.87	16.17	948356	626752	473.0	484.0	
	Sum Aroclor-1260			5044297	3448008	1811.6	1629.3	
	Average Aroclor-1260					812.376	730.644	

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

File : F:\HPCHEM\HP\14\DATA\08_22_01\14082215.D
Operator : TLM
Acquired : 22 Aug 2001 15:55 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.03 *E00Y3 *
Misc Info : *EPA*30.3G/5.0ML*26
Vial Number: 15



File : F:\HPCHEM\HP\14\DATA\08_22_01\14082215.D
Operator : TLM
Acquired : 22 Aug 2001 15:55 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.03 *E00Y3 *
Misc Info : *EPA*30.3G/5.0ML*26
Vial Number: 15



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Y3DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.03DL

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

% Moisture: 26 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/29/01

Injection Volume: 0.5(uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	440	U
11104-28-2	Aroclor-1221	440	U
11141-16-5	Aroclor-1232	440	U
53469-21-9	Aroclor-1242	1500	D
12672-29-6	Aroclor-1248	440	U
11097-69-1	Aroclor-1254	2300	D
11096-82-5	Aroclor-1260	820	D
Surrogate amount spiked		8.92	

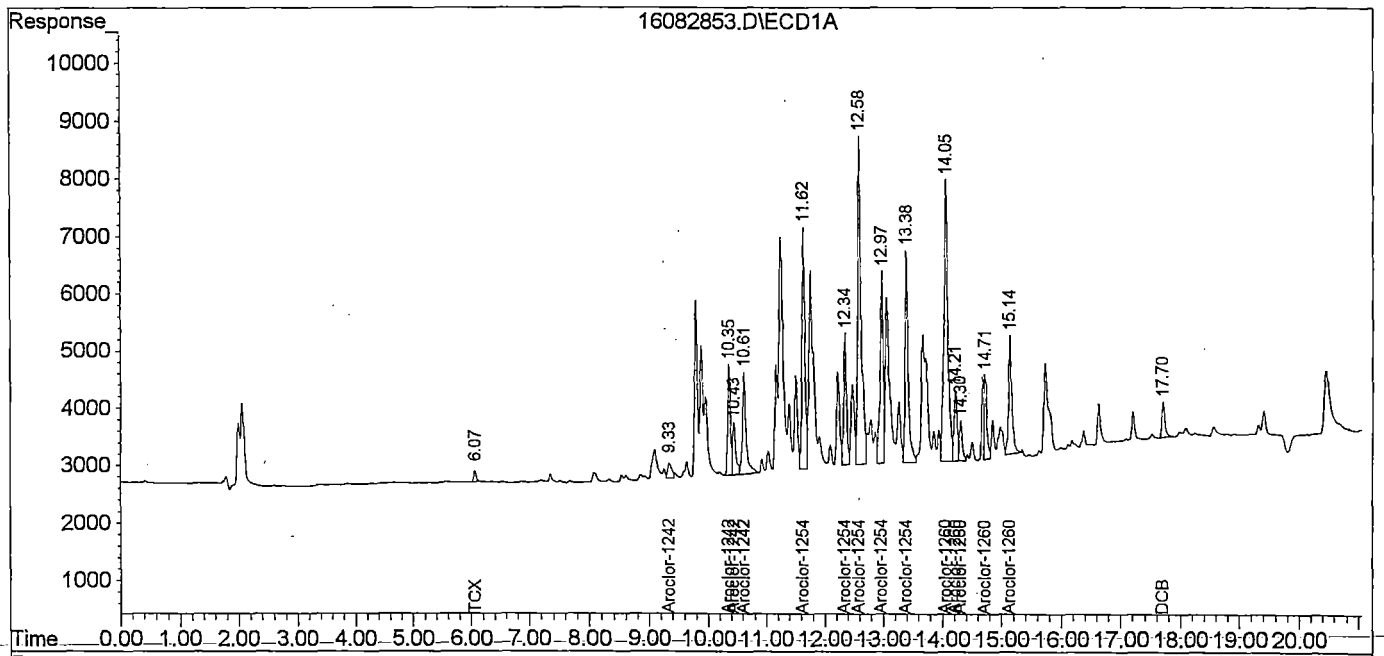
FORM I PCB

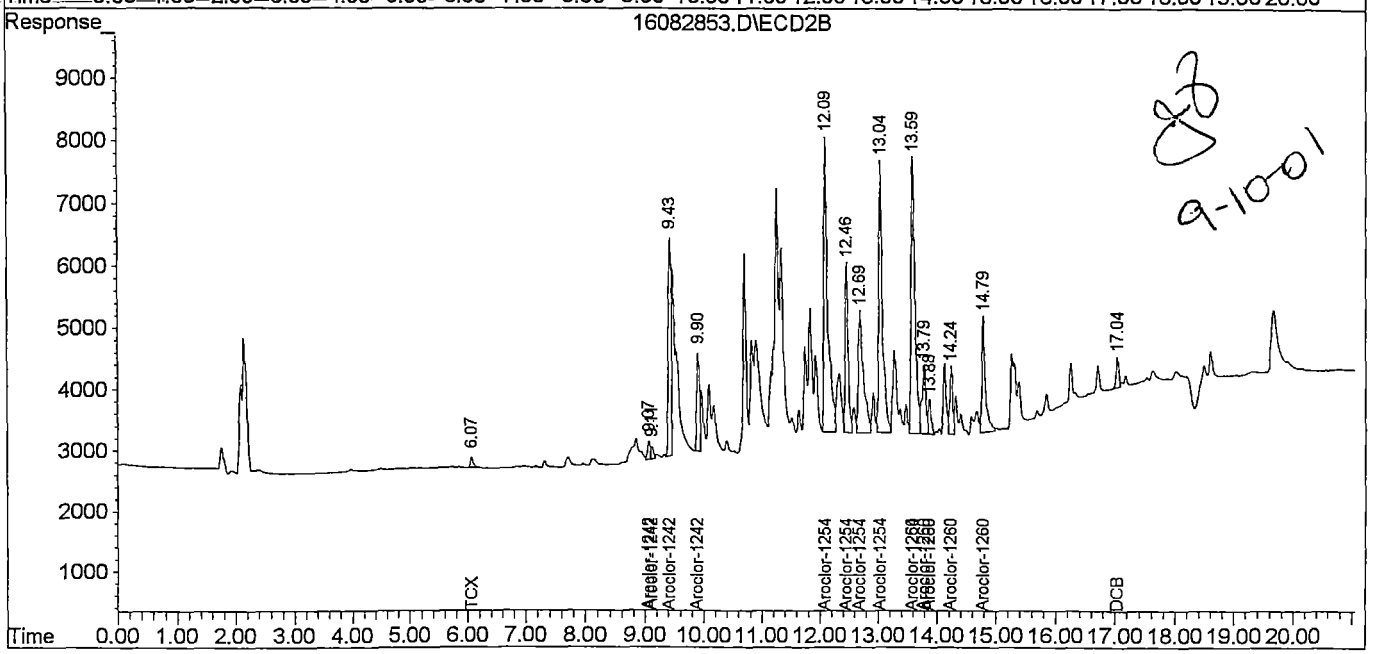
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082853.D\ECD1A.CH Vial: 53
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082853.D\ECD2B.CH
Acq On : 29 Aug 2001 9:54 Operator: TLM
Sample : 47166.03DL *E00Y3DL * Inst : HP_16
Misc : *EPA*30.3G/5.0ML*26 Dilution: 10.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 10 12:24 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082853.D\ECD1A.CH Vial: 53
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082853.D\ECD2B.CH
Acq On : 29 Aug 2001 9:54 Operator: TLM
Sample : 47166.03DL *E00Y3DL * Inst : HP_16
Misc : *EPA*30.3G/5.0ML*26 Dilution: 10.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 10 12:24 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

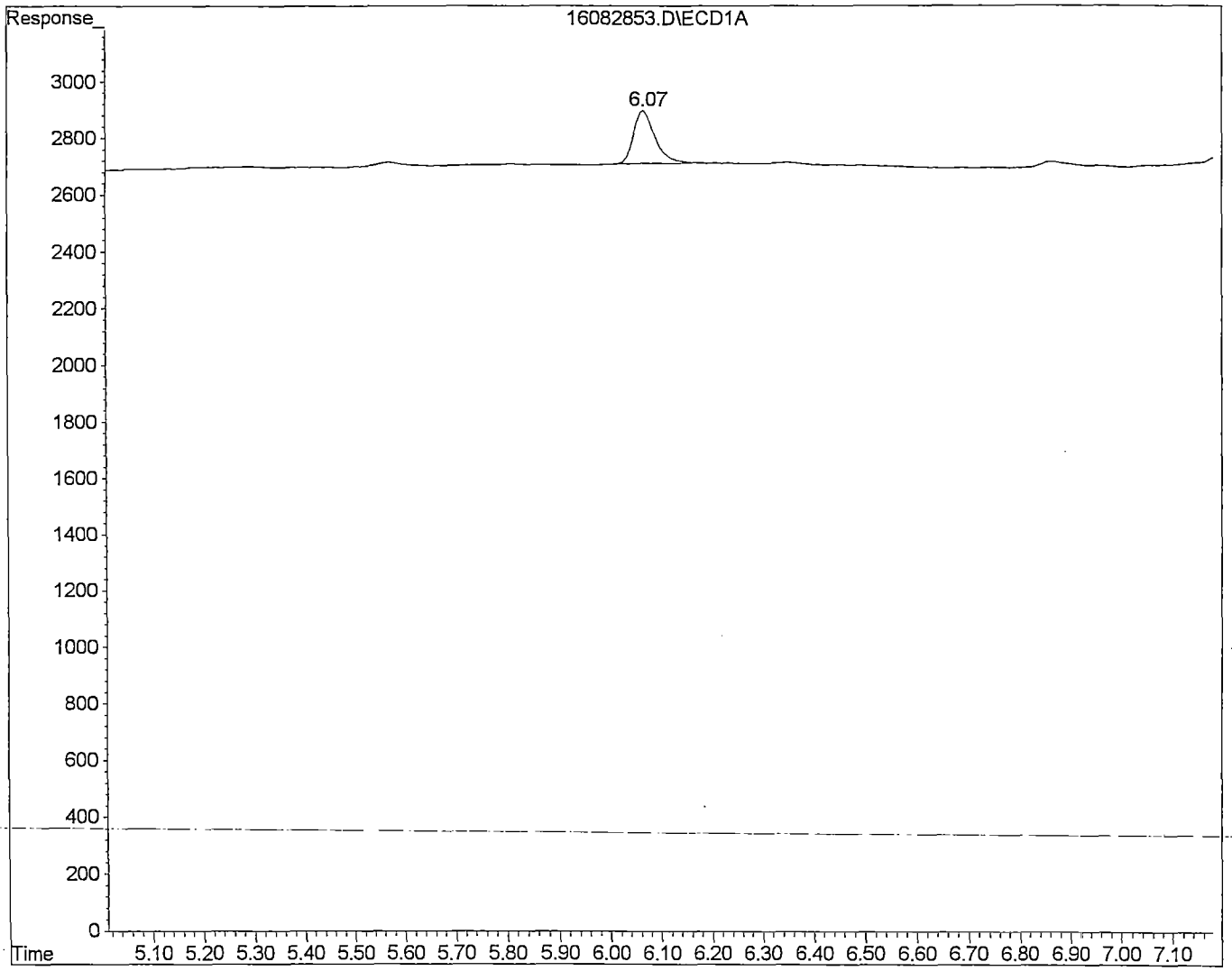
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
System Monitoring Compounds:						
1) S TCX	6.06	6.07	5561	5260	4.964m	4.191m
Spiked Amount 8.920			Recovery	=	55.65%	46.99%
22) S DCB	17.70	17.04	22009	14753	11.7	8.494m #
Spiked Amount 8.920			Recovery	=	131.17%	95.23%
Target Compounds:						
7) L4 Aroclor-1242	9.34	9.07	13182	9982	261.4	255.0
8) L4 Aroclor-1242 {2}	10.35	9.12f	59066	5965	1957.8	251.5 #
9) L4 Aroclor-1242 {3}	10.44	9.43	37133	111521	2183.6	5318.0 #
10) L4 Aroclor-1242 {4}	10.61	9.90	77291	54515	1776.1	1325.7 #
Sum Aroclor-1242			186672	181983	6178.8	7150.2
Average Aroclor-1242					1544.706	1787.557
12) L6 Aroclor-1254	11.62	12.10	148580	227545	2218.1m	2527.1
13) L6 Aroclor-1254 {2}	12.34	12.46	78566	96704	1759.2	2401.1 #
14) L6 Aroclor-1254 {3}	12.58	12.69	227210	124141	2336.5	2620.1
15) L6 Aroclor-1254 {4}	12.97	13.04	124152	198382	2500.0	2712.2
16) L6 Aroclor-1254 {5}	13.38	13.59	137915	208963	2577.4	2481.7
Sum Aroclor-1254			716423	855735	11391.2	12742.1
Average Aroclor-1254					2278.244	2548.427
17) L7 Aroclor-1260	14.05	13.59	225648	208963	1940.5	1734.4
18) L7 Aroclor-1260 {2}	14.21	13.79	45824	51273	685.5	786.5
19) L7 Aroclor-1260 {3}	14.30	13.88	24391	19382	514.0	437.8
20) L7 Aroclor-1260 {4}	14.72	14.24	45675	36695	693.7	633.5
21) L7 Aroclor-1260 {5}	15.14	14.79	76822	76347	569.2	535.1
Sum Aroclor-1260			418360	392660	19636.5	18406.9
Average Aroclor-1260					880.581	825.440

JM 9-10-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_28_01\16082853.D
Date Acquired: 29 Aug 2001 9:54
Inst: HP_16 Operator ID: TLM
Name: 47166.03DL *E00Y3DL *
Misc: *EPA*30.3G/5.0ML*26
Method: F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title: PCB/TOXAPHENE
Quant Time: Aug 30 16:52 2001 Quant Results File: XPCBH28.RES



TCX 6.07min area: 5561 m

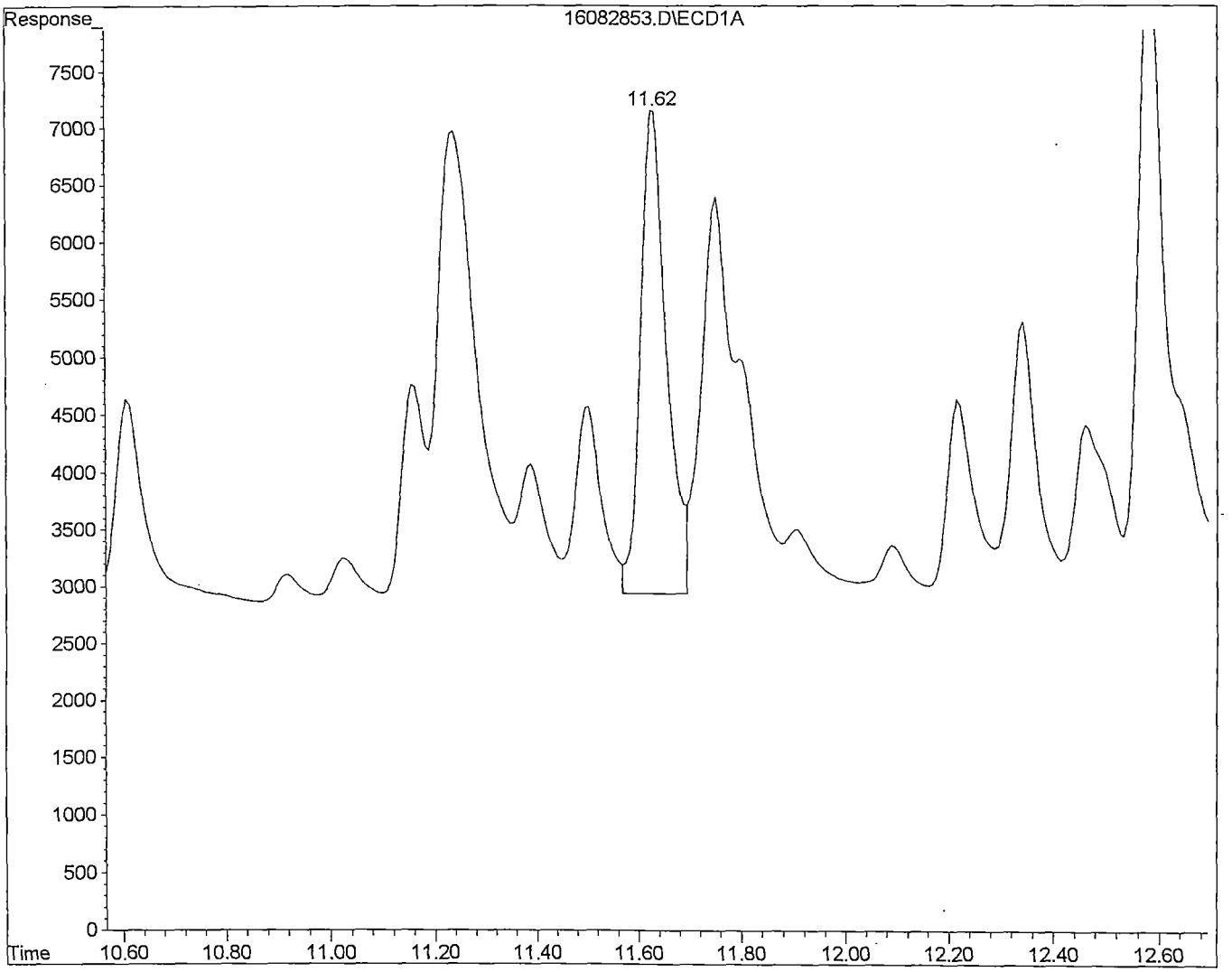
Integration Time Range: 6.01 - 6.18

JM 8-30-01

F:\HPCHEM\HP\16\DATA\08_28_01\16082853.D
Report generated: Thu Aug 30 18:34:32 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_28_01\16082853.D
Date Acquired: 29 Aug 2001 9:54
Inst: HP_16 Operator ID: TLM
Name: 47166.03DL *E00Y3DL *
Misc: *EPA*30.3G/5.0ML*26
Method: F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title: PCB/TOXAPHENE
Quant Time: Sep 10 12:24 2001 Quant Results File: XPCBH28.RES



Aroclor-1254 11.62min area: 148580 m

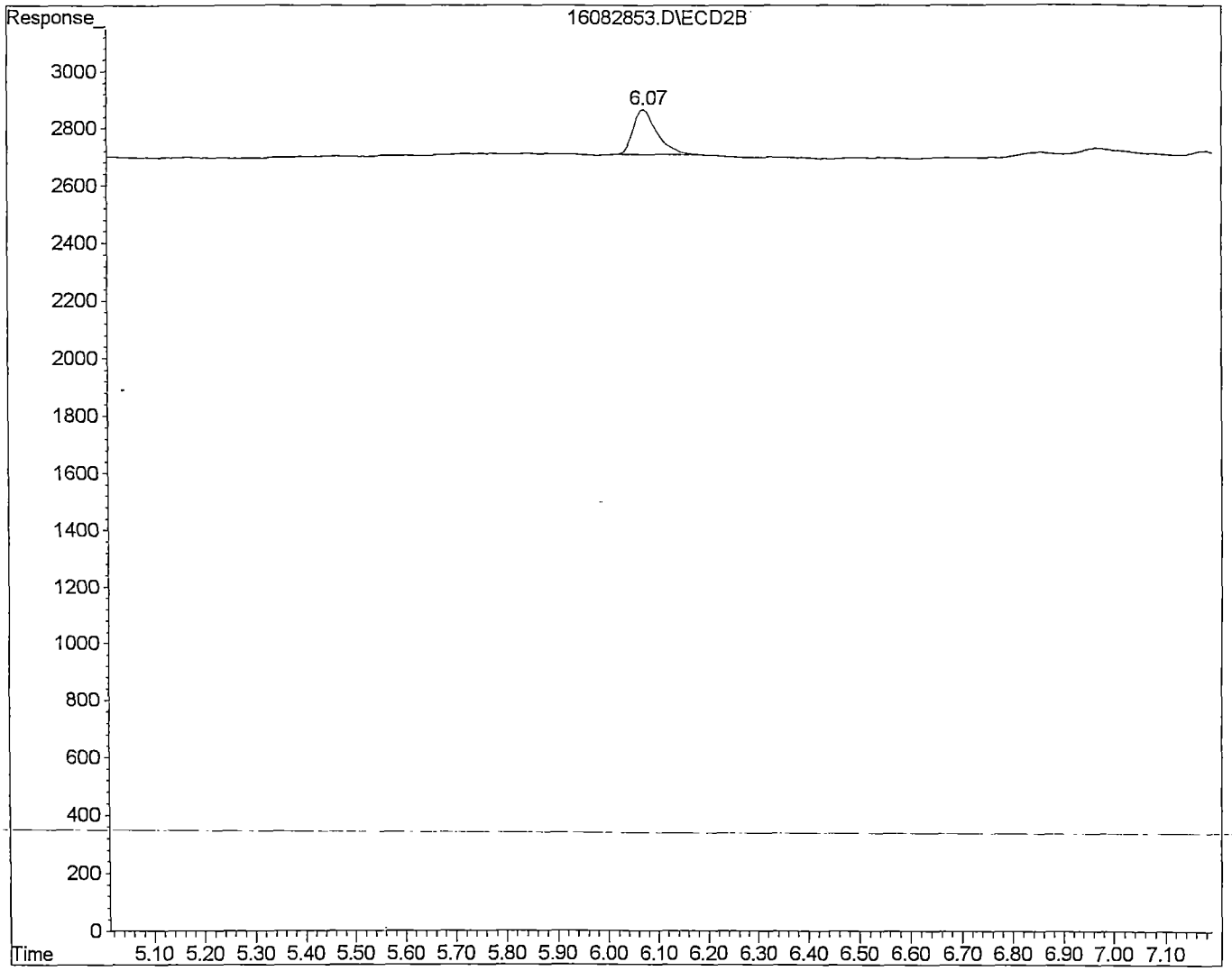
Integration Time Range: 11.57 - 11.69

9-10-01

F:\HPCHEM\HP\16\DATA\08_28_01\16082853.D
Report generated: Mon Sep 10 12:26:46 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_28_01\16082853.D
Date Acquired: 29 Aug 2001 9:54
Inst: HP_16 Operator ID: TLM
Name: 47166.03DL *E00Y3DL *
Misc: *EPA*30.3G/5.0ML*26
Method: F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title: PCB/TOXAPHENE
Quant Time: Aug 30 16:52 2001 Quant Results File: XPCBH28.RES



TCX #2 6.07min area: 5260 m

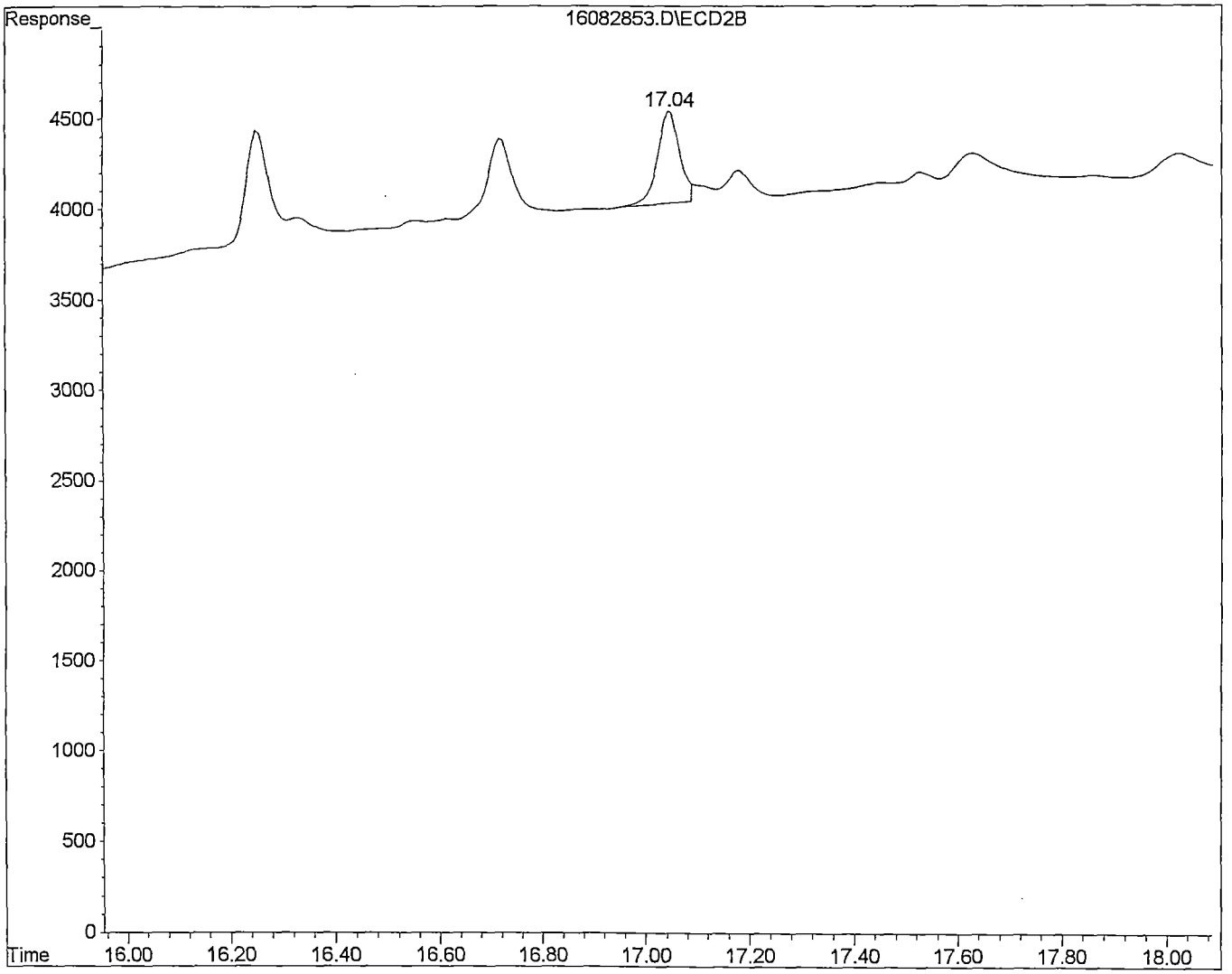
Integration Time Range: 6.01 - 6.19

8-30-01

F:\HPCHEM\HP\16\DATA\08_28_01\16082853.D
Report generated: Thu Aug 30 18:34:33 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_28_01\16082853.D
Date Acquired: 29 Aug 2001 9:54
Inst: HP_16 Operator ID: TLM
Name: 47166.03DL *E00Y3DL *
Misc: *EPA*30.3G/5.0ML*26
Method: F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title: PCB/TOXAPHENE
Quant Time: Aug 30 16:52 2001 Quant Results File: XPCBH28.RES



DCB #2 17.04min area: 14753 m

Integration Time Range: 16.95 - 17.09 3m 8-30-01

F:\HPCHEM\HP\16\DATA\08_28_01\16082853.D
Report generated: Thu Aug 30 18:34:34 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Y4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.04

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

% Moisture: 27 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
12674-11-2	Aroclor-1016	45	U	
11104-28-2	Aroclor-1221	45	U	
11141-16-5	Aroclor-1232	45	U	
53469-21-9	Aroclor-1242	~~950~~	E	2100 DJ
12672-29-6	Aroclor-1248	45	U	
11097-69-1	Aroclor-1254	~~1300~~	E	1600 D
11096-82-5	Aroclor-1260	~~430~~	E	570 D
Surrogate amount spiked		9.10		

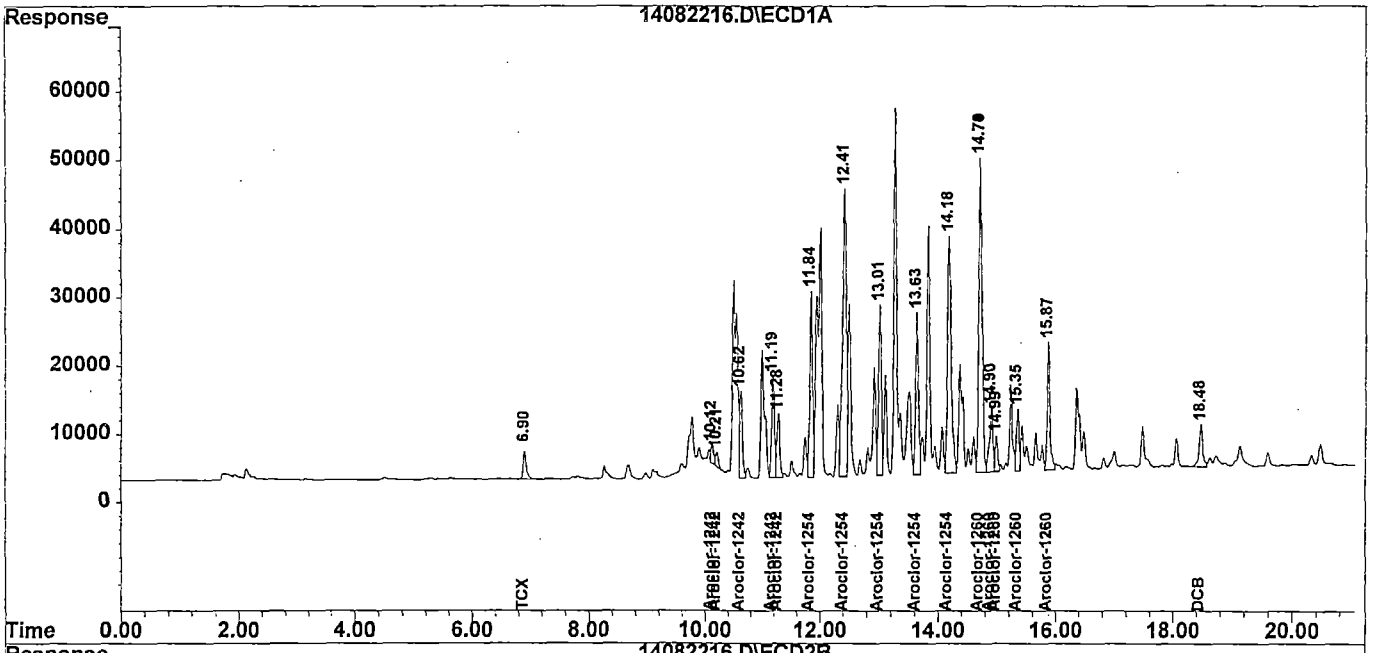
JB
10/8/01

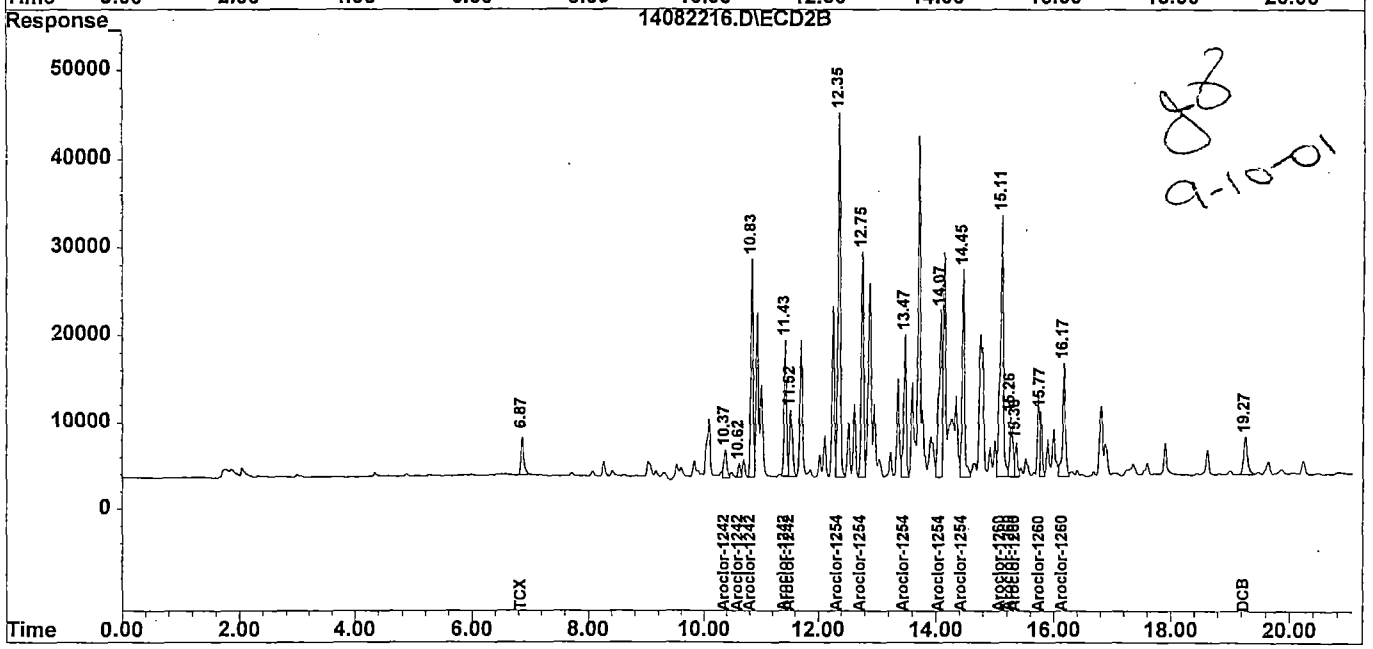
Chromatographic Report

```
Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082216.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082216.D\ECD2B.CH
Acq On    : 22 Aug 2001  16:20                        Operator: TLM
Sample    : 47166.04  *E00Y4  *                       Inst    : HP_14
Misc      : *EPA*30.1G/5.0ML*27                       Dilution: 1.00
IntFile Signal #1: events1.e     IntFile Signal #2: events2.e
Quant Time: Sep  6 17:04 2001  Quant Results File: XPCBH20.RES

Method       : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path   : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update  : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj.      : 0.5uL
Signal #1 Phase  : RTX-PEST 2          Signal #2 Phase: RTX-PEST
Signal #1 Info   : .32 mm              Signal #2 Info : .32 mm
Signal #1 Inst   : HP_14A              Signal #2 Inst : HP_14B
```





8
9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082216.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082216.D\ECD2B.CH
Acq On : 22 Aug 2001 16:20 Operator: TLM
Sample : 47166.04 *E00Y4 * Inst : HP_14
Misc : *EPA*30.1G/5.0ML*27 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 17:04 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

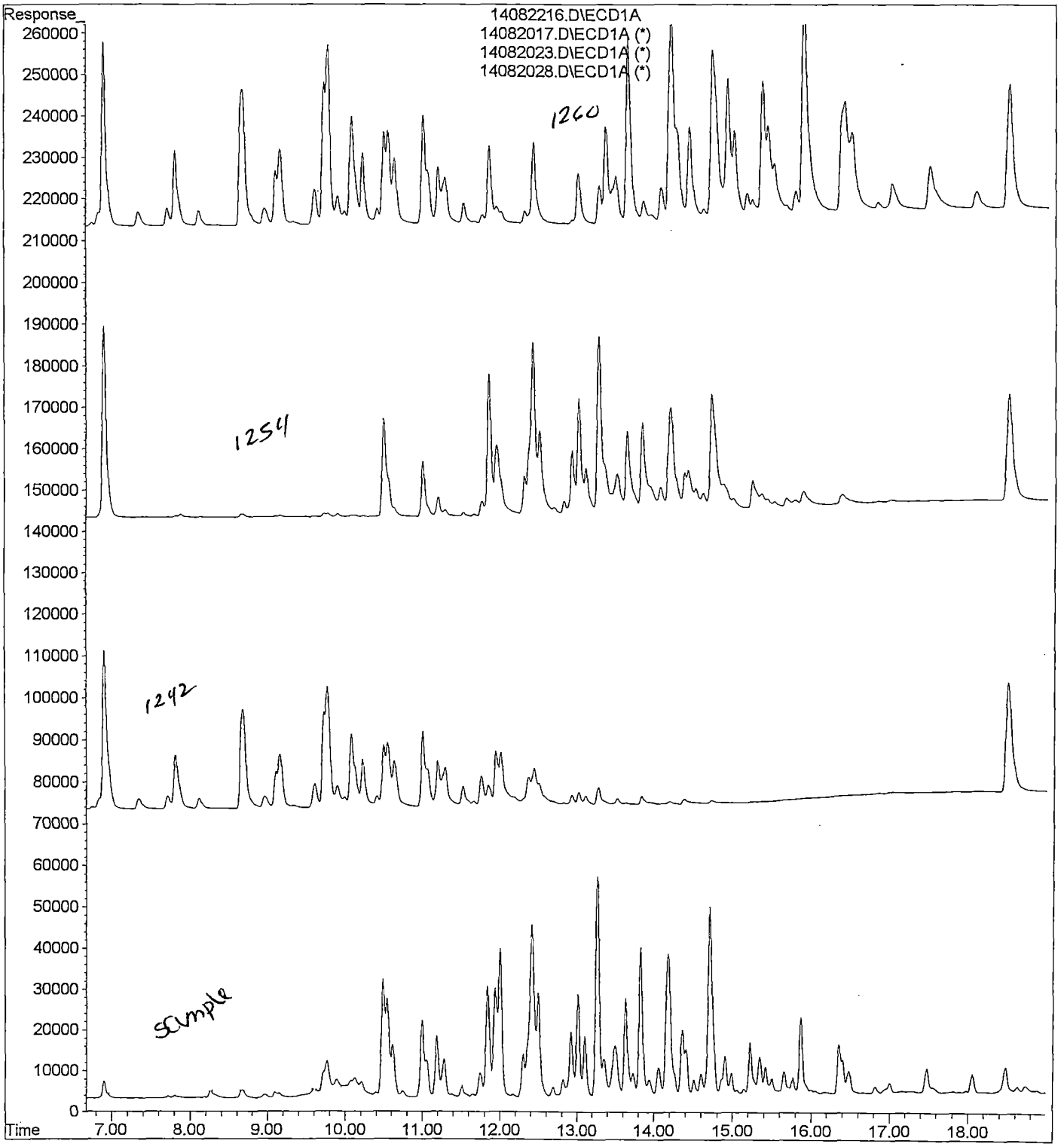
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
System Monitoring Compounds:						
1) S TCX	6.90	6.86	154775	147336	6.847	7.132m
Spiked Amount 9.102			Recovery	=	75.22%	78.36%
22) S DCB	18.48	19.27	272489	199227	12.3	14.0m
Spiked Amount 9.102			Recovery	=	135.13%	153.81%
Target Compounds:						
7) L4 Aroclor-1242	10.13f	10.37	96464	120480	169.1m	278.9m #
8) L4 Aroclor-1242 {2}	10.21	10.62	71796	45181	229.8m	204.0
9) L4 Aroclor-1242 {3}	10.62	10.83	457862	714064	1294.9 E	2443.0 E#
10) L4 Aroclor-1242 {4}	11.19	11.43	494265	449615	1988.0 E	1346.7 E#
11) L4 Aroclor-1242 {5}	11.28	11.52	337686	276672	1063.7 E	1391.0 E#
Sum Aroclor-1242			1458073	1606012	4745.5	5663.5
Average Aroclor-1242					949.095	1132.702
12) L6 Aroclor-1254	11.84	12.35	907838	1223284	1056.7 E	1682.8 E#
~~13) L6 Aroclor-1254 {2}~~	~~12.42~~	~~12.75~~	~~1927298~~	~~733182~~	~~1480.4 E~~	~~1039.5 E#~~
14) L6 Aroclor-1254 {3}	13.02	13.47	828541	482384	1288.3 E	1013.6 E
15) L6 Aroclor-1254 {4}	13.64	14.08	797939	659135	1350.9 E	1501.9 E
16) L6 Aroclor-1254 {5}	14.18	14.46	1604463	678773	1734.2 E	1326.5 E
Sum Aroclor-1254			6066080	3776759	6910.5	6564.3
Average Aroclor-1254					1382.107	1312.867
17) L7 Aroclor-1260	14.70	15.11	1790846	1091386	1229.8 E	909.0 E#
18) L7 Aroclor-1260 {2}	14.90	15.26	378238	249542	440.2	367.7
19) L7 Aroclor-1260 {3}	14.99	15.36	159235	111918	224.6	241.5
20) L7 Aroclor-1260 {4}	15.35	15.77	277716	198512	439.0	295.5 #
21) L7 Aroclor-1260 {5}	15.87	16.17	609355	424299	310.1	334.4
Sum Aroclor-1260			3215390	2075656	1203.1	977.6
Average Aroclor-1260					528.733	429.612

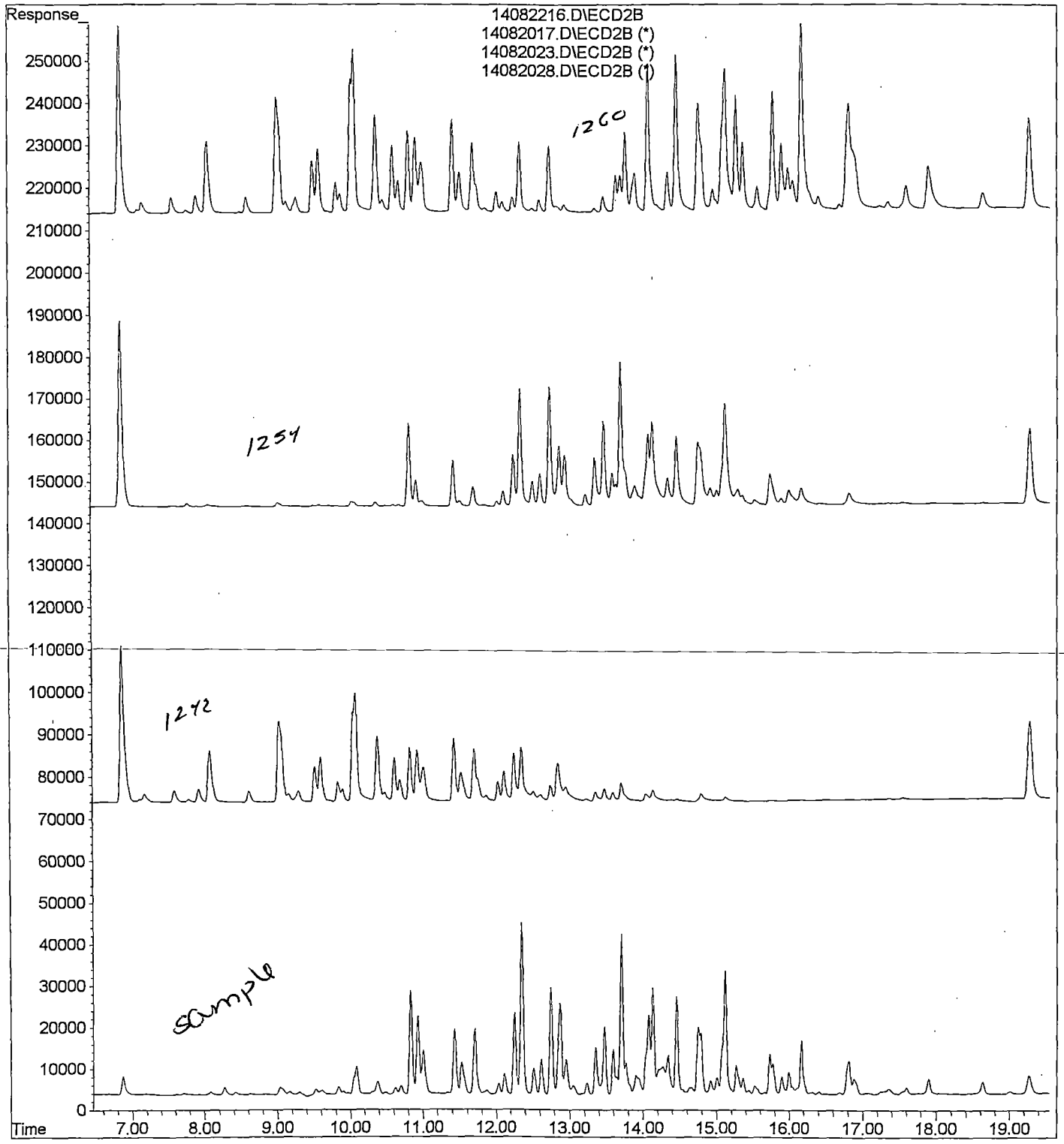
JM 9-7-01

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

File : F:\HPCHEM\HP\14\DATA\08_22_01\14082216.D
Operator : TLM
Acquired : 22 Aug 2001 16:20 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.04 *E00Y4 *
Misc Info : *EPA*30.1G/5.0ML*27
Vial Number: 16

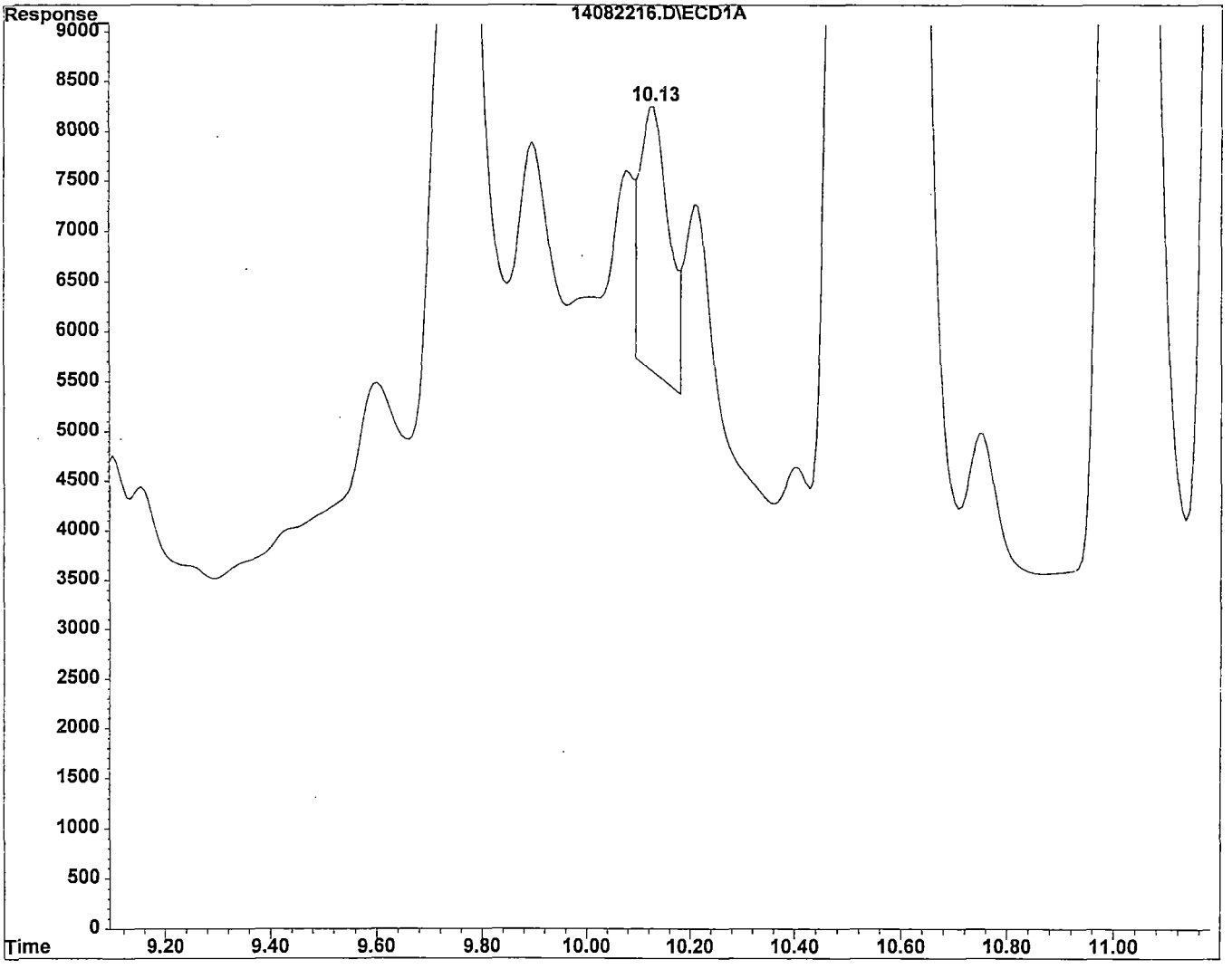


File : F:\HPCHEM\HP\14\DATA\08_22_01\14082216.D
Operator : TLM
Acquired : 22 Aug 2001 16:20 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.04 *E00Y4 *
Misc Info : *EPA*30.1G/5.0ML*27
Vial Number: 16



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082216.D
Date Acquired: 22 Aug 2001 16:20
Inst: HP_14 Operator ID: TLM
Name: 47166.04 *E00Y4 *
Misc: *EPA*30.1G/5.0ML*27
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:04 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 10.13min area: 96464 m

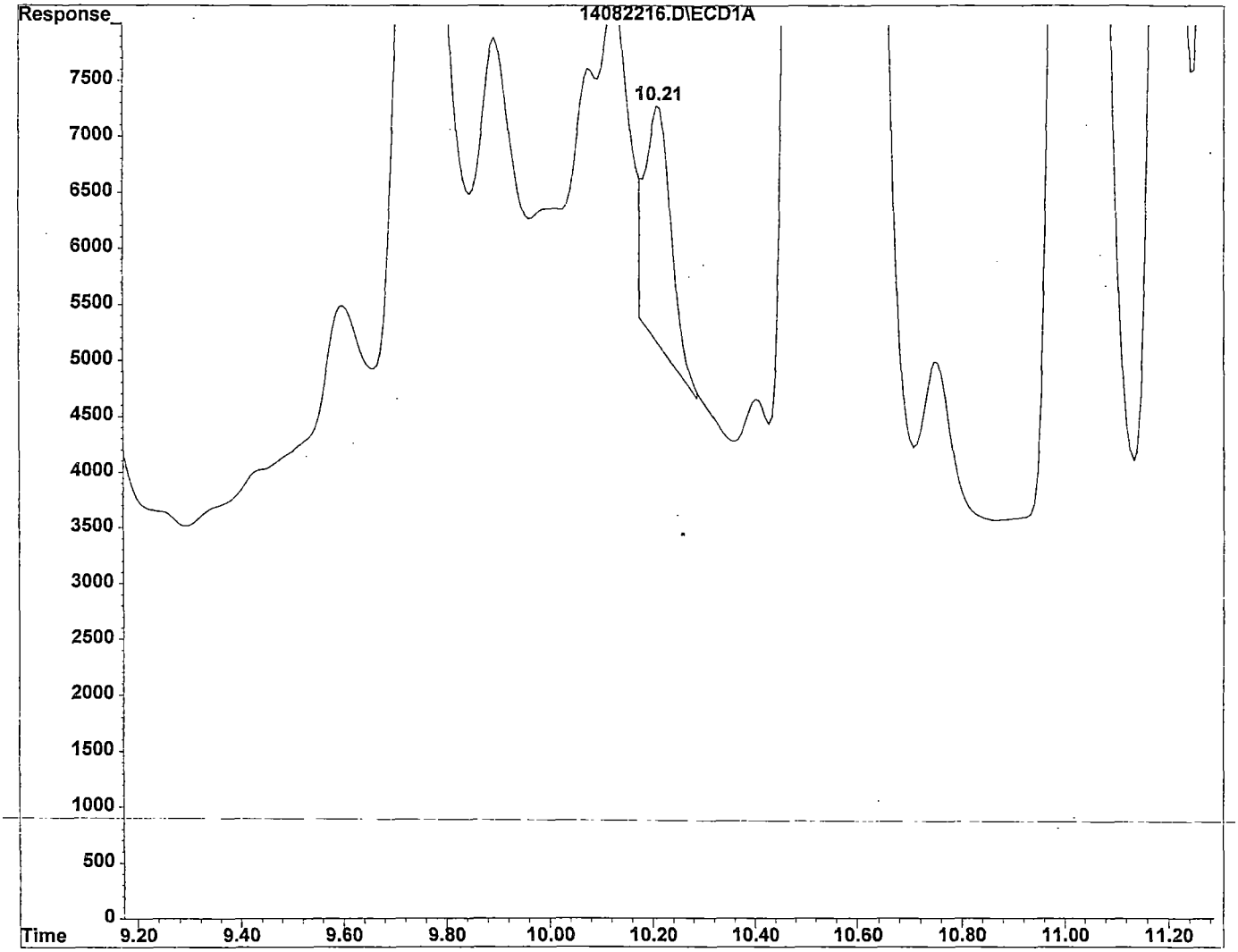
Integration Time Range: 10.09 - 10.18

JAM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082216.D
Report generated: Fri Sep 07 09:34:56 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082216.D
Date Acquired: 22 Aug 2001 16:20
Inst: HP_14 Operator ID: TLM
Name: 47166.04 *E00Y4 *
Misc: *EPA*30.1G/5.0ML*27
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:04 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {2} 10.21min area: 71796 m

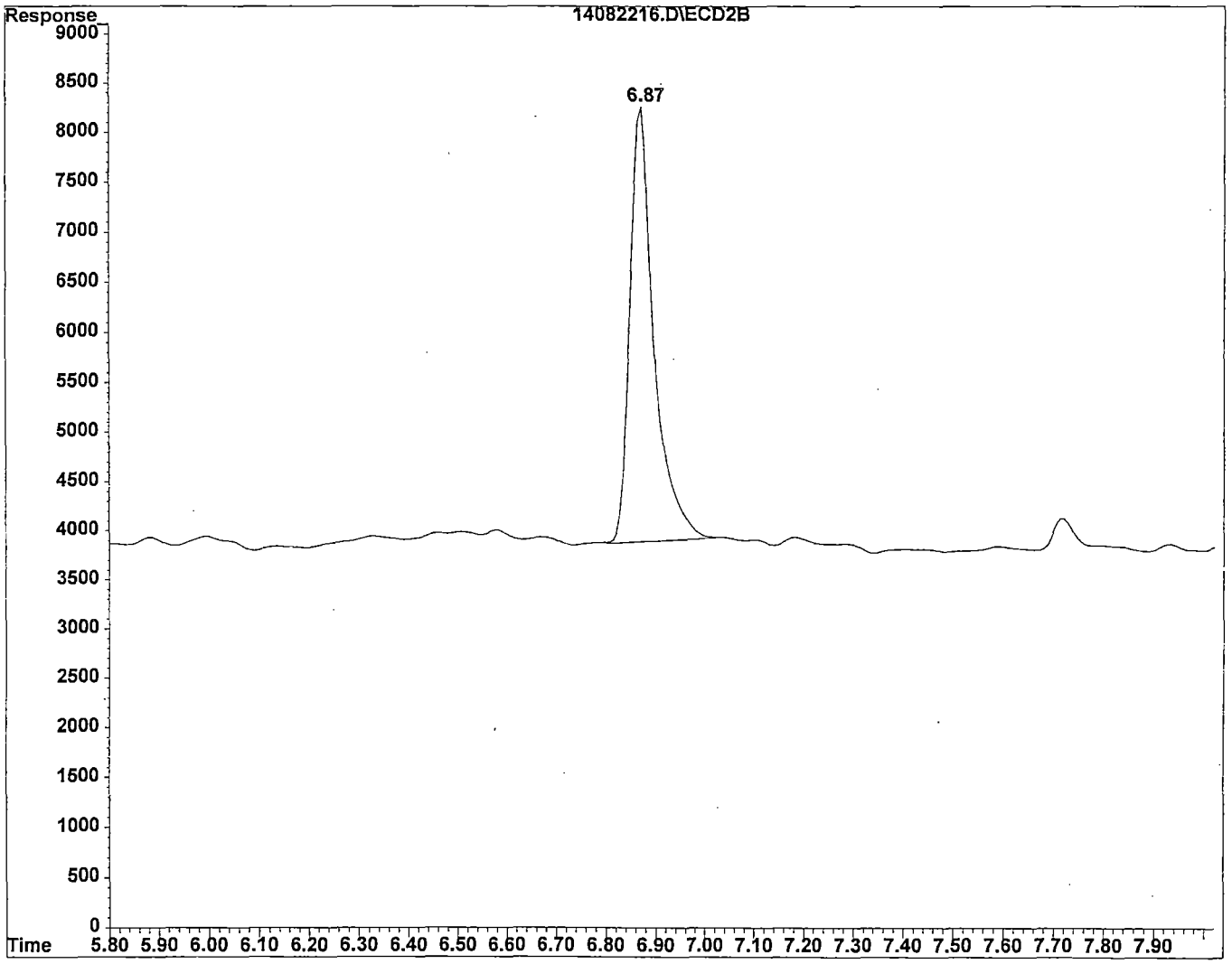
Integration Time Range: 10.17 - 10.29

JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082216.D
Report generated: Fri Sep 07 09:34:57 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082216.D
Date Acquired: 22 Aug 2001 16:20
Inst: HP_14 Operator ID: TLM
Name: 47166.04 *E00Y4 *
Misc: *EPA*30.1G/5.0ML*27
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:04 2001 Quant Results File: XPCBH20.RES



TCX #2 6.87min area: 147336 m

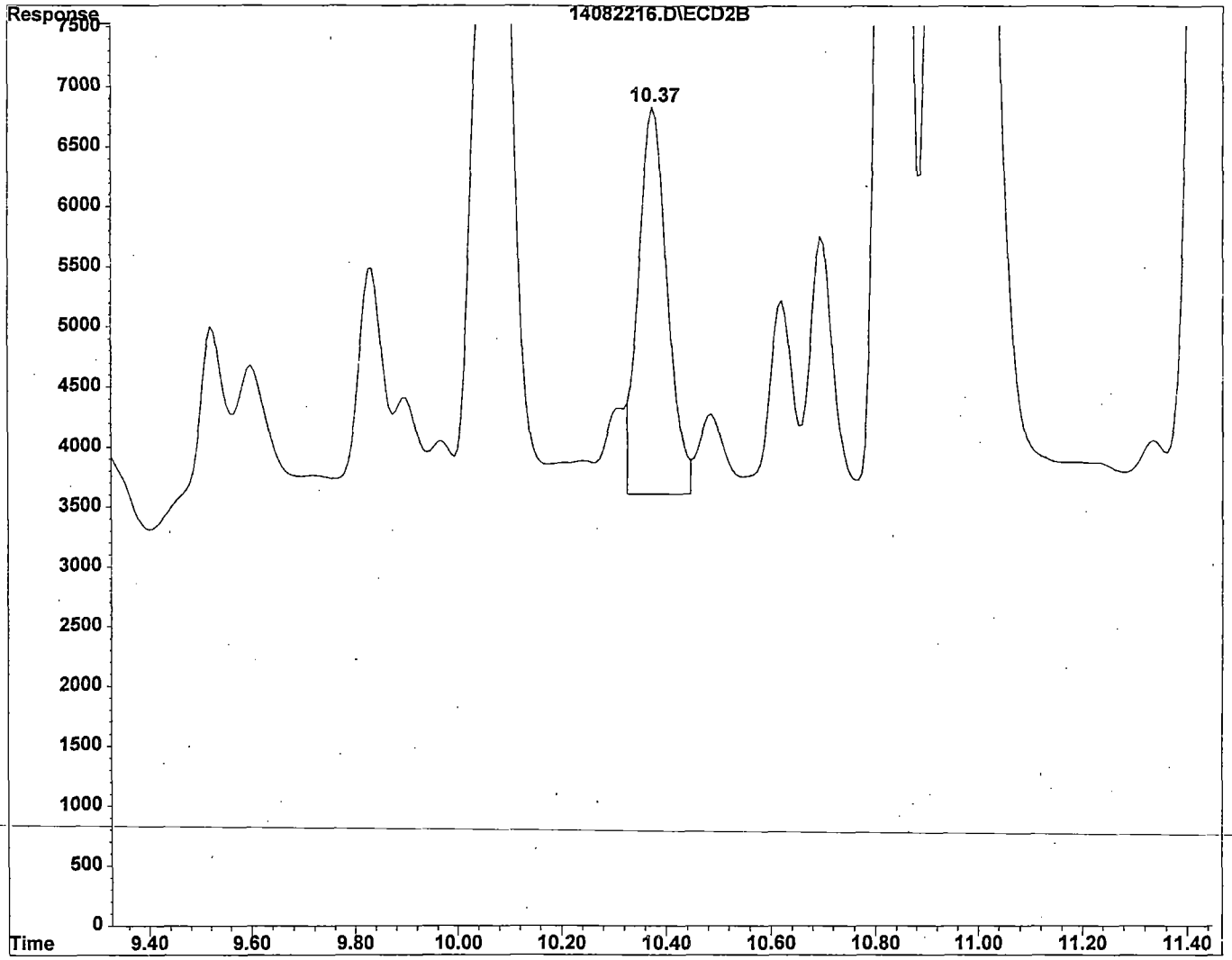
Integration Time Range: 6.80 - 7.02

TM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082216.D
Report generated: Fri Sep 07 09:34:58 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082216.D
Date Acquired: 22 Aug 2001 16:20
Inst: HP_14 Operator ID: TLM
Name: 47166.04 *E00Y4 *
Misc: *EPA*30.1G/5.0ML*27
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:04 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 #2 10.37min area: 120480 m

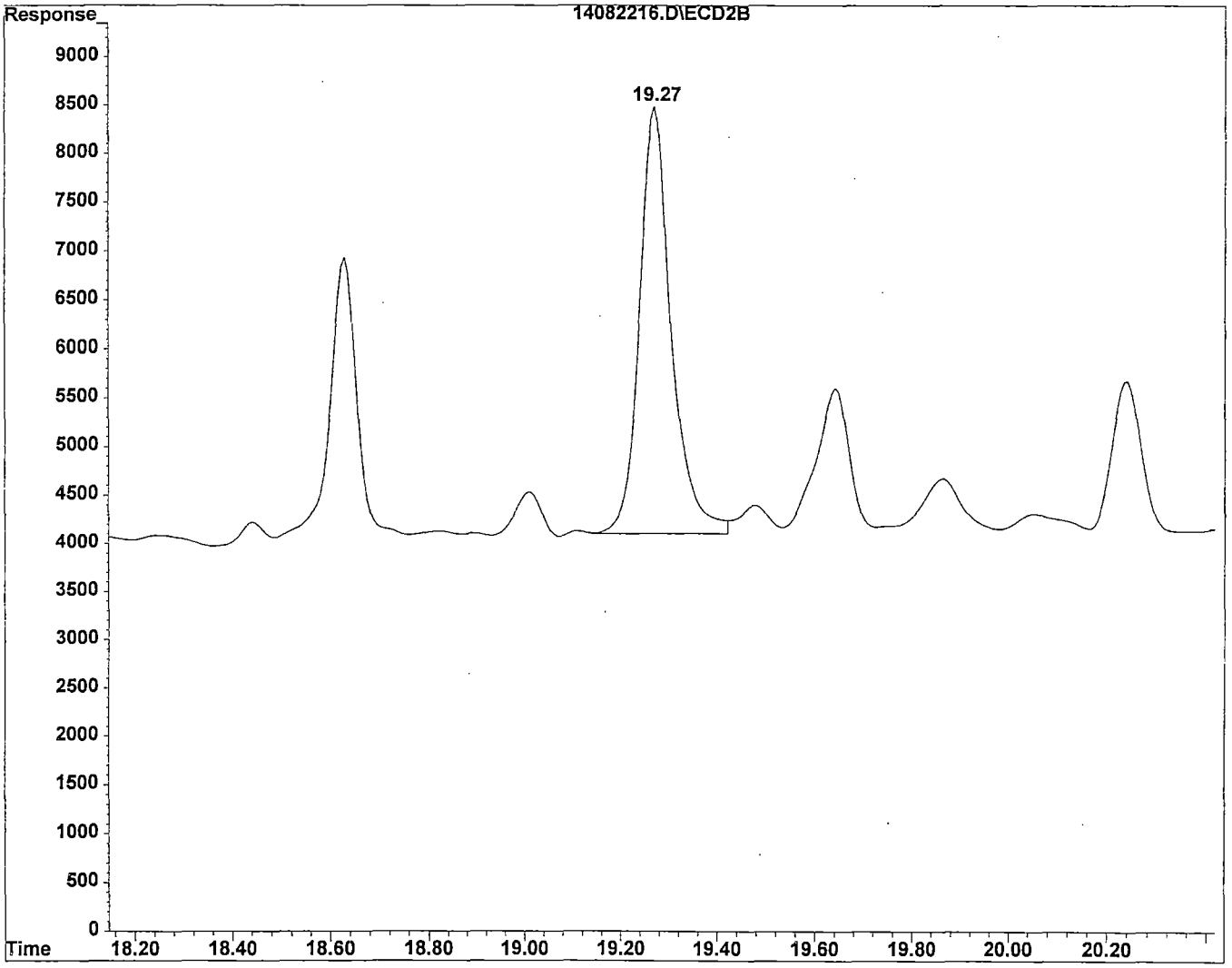
Integration Time Range: 10.33 - 10.45

JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082216.D
Report generated: Fri Sep 07 09:34:59 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082216.D
Date Acquired: 22 Aug 2001 16:20
Inst: HP_14 Operator ID: TLM
Name: 47166.04 *E00Y4 *
Misc: *EPA*30.1G/5.0ML*27
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:04 2001 Quant Results File: XPCBH20.RES



DCB #2 19.27min area: 199227 m

Integration Time Range: 19.15 - 19.42

TM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082216.D
Report generated: Fri Sep 07 09:35:00 2001

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Y4DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.04DL

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

% Moisture: 27 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/29/01

Injection Volume: 0.5(uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	450	U
11104-28-2	Aroclor-1221	450	U
11141-16-5	Aroclor-1232	450	U
53469-21-9	Aroclor-1242	2100	DP
12672-29-6	Aroclor-1248	450	U
11097-69-1	Aroclor-1254	1600	D
11096-82-5	Aroclor-1260	570	D
Surrogate amount spiked		9.10	

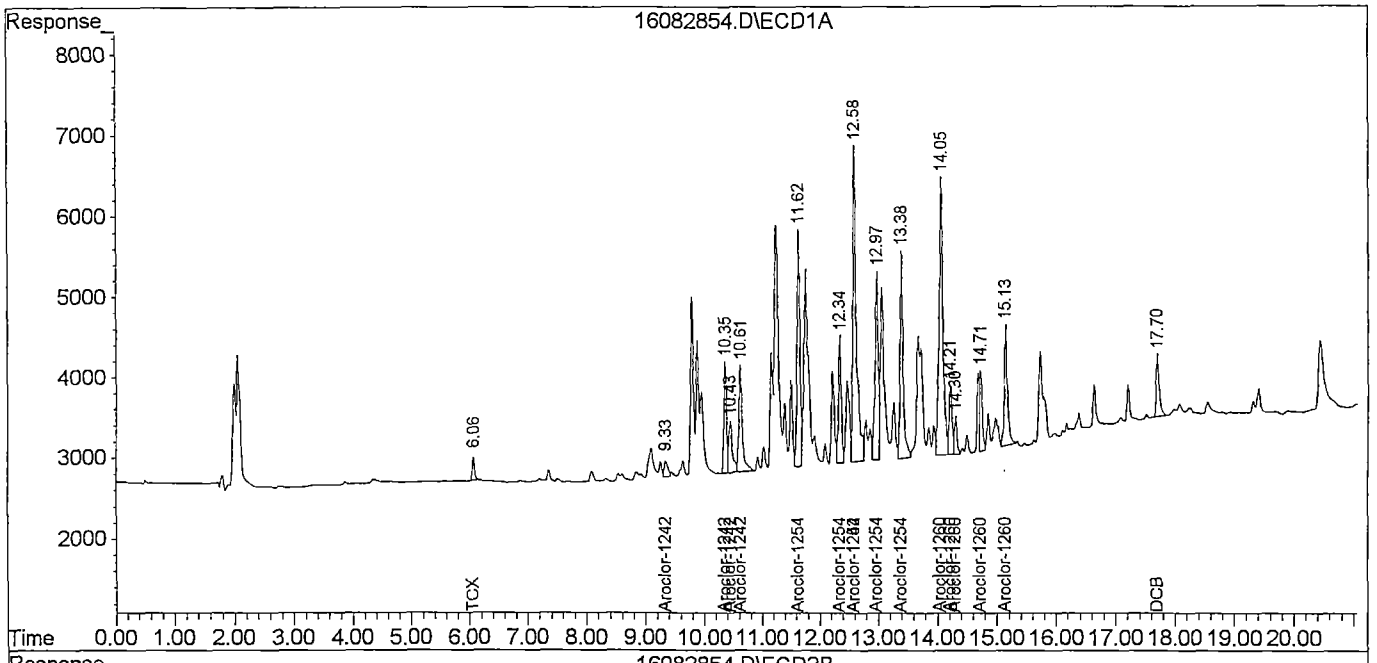
FORM I PCB

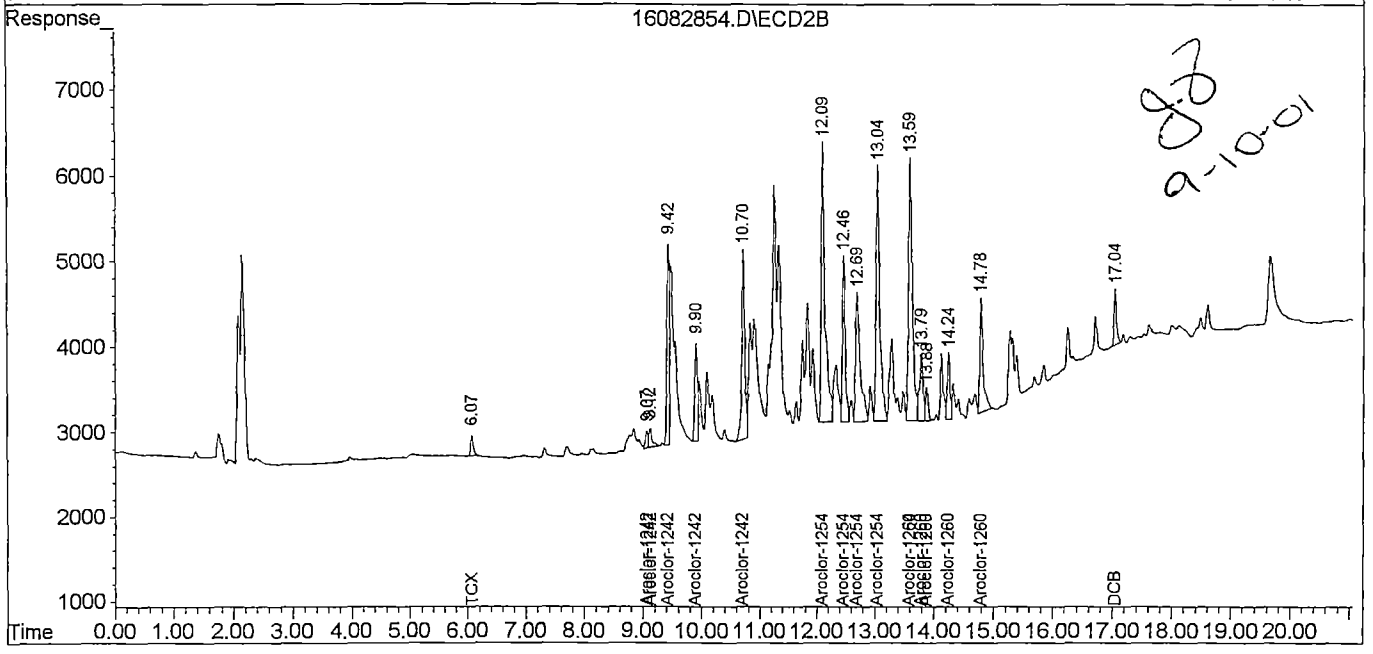
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082854.D\ECD1A.CH Vial: 54
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082854.D\ECD2B.CH
Acq On : 29 Aug 2001 10:19 Operator: TLM
Sample : 47166.04DL *E00Y4DL * Inst : HP_16
Misc : *EPA*30.1G/5.0ML*27 Dilution: 10.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 10 12:27 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082854.D\ECD1A.CH Vial: 54
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082854.D\ECD2B.CH
Acq On : 29 Aug 2001 10:19 Operator: TLM
Sample : 47166.04DL *E00Y4DL * Inst : HP_16
Misc : *EPA*30.1G/5.0ML*27 Dilution: 10.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 10 12:27 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

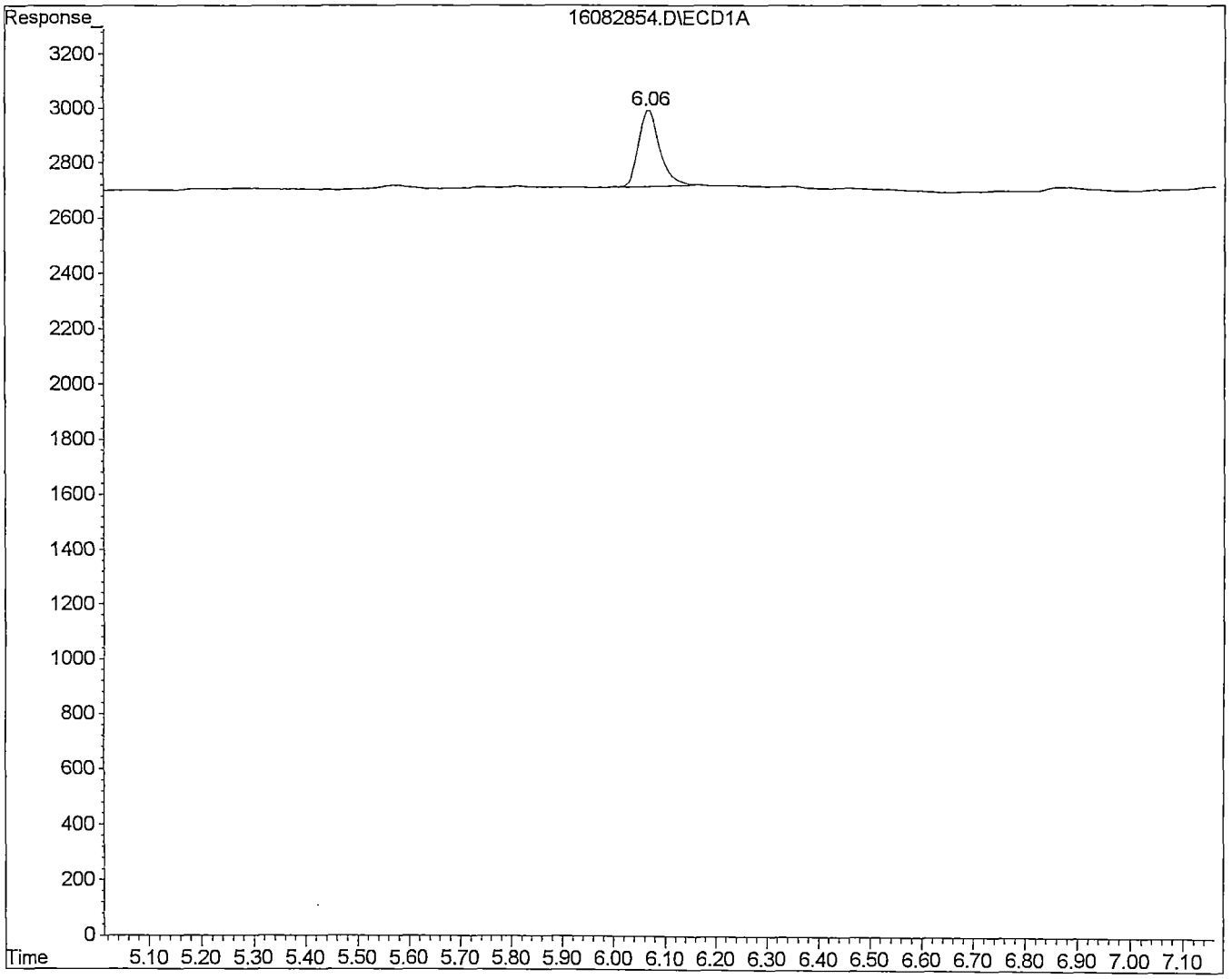
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	6.06	6.07	7968	7653	7.259m	6.221m	
	Spiked Amount 9.102			Recovery	=	79.75%	68.35%	
22)	S DCB	17.70	17.04	28691	19377	15.5	11.4	#
	Spiked Amount 9.102			Recovery	=	170.29%	125.25%	
	Target Compounds:							
7)	L4 Aroclor-1242	9.34	9.07	9405	6003	190.3	156.5	
8)	L4 Aroclor-1242 {2}	10.35	9.12f	41995	8819	1420.4	379.4	#
9)	L4 Aroclor-1242 {3}	10.44	9.43	26095	71351	1565.8	3472.0	#
10)	L4 Aroclor-1242 {4}	10.61	9.90	54895	39236	1287.2	973.6	
11)	L4 Aroclor-1242 {5}	12.58	10.71	163054	81389	14754.6 E	5310.0	#
	Sum Aroclor-1242			295443	206797	19218.3	10291.5	
	Average Aroclor-1242					3843.669	2058.306	
12)	L6 Aroclor-1254	11.62	12.09	101716	154512	1549.5m	1751.0	
13)	L6 Aroclor-1254 {2}	12.34	12.46	54132	66937	1236.8	1695.9	#
14)	L6 Aroclor-1254 {3}	12.58	12.69	163054	86668	1711.0	1866.6	
15)	L6 Aroclor-1254 {4}	12.97	13.04	85717	132517	1761.3	1848.7	
16)	L6 Aroclor-1254 {5}	13.38	13.59	92961	141799	1772.8	1718.5	
	Sum Aroclor-1254			497579	582434	8031.5	8880.8	
	Average Aroclor-1254					1606.299	1776.153	
17)	L7 Aroclor-1260	14.05	13.59	153067	141799	1343.2	1201.0	
18)	L7 Aroclor-1260 {2}	14.21	13.79	30937	34710	472.3	543.3	
19)	L7 Aroclor-1260 {3}	14.30	13.88	15437	12760	332.0	294.1	
20)	L7 Aroclor-1260 {4}	14.72	14.24	29985	25449	464.7	448.3	
21)	L7 Aroclor-1260 {5}	15.14	14.79	53967	51120	408.0	365.6	
	Sum Aroclor-1260			283393	265838	13745.0	12980.9	
	Average Aroclor-1260					604.037	570.457	

m 9-10-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_28_01\16082854.D
Date Acquired: 29 Aug 2001 10:19
Inst: HP_16 Operator ID: TLM
Name: 47166.04DL *E00Y4DL *
Misc: *EPA*30.1G/5.0ML*27
Method: F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title: PCB/TOXAPHENE
Quant Time: Aug 30 16:52 2001 Quant Results File: XPCBH28.RES



TCX 6.06min area: 7968 m

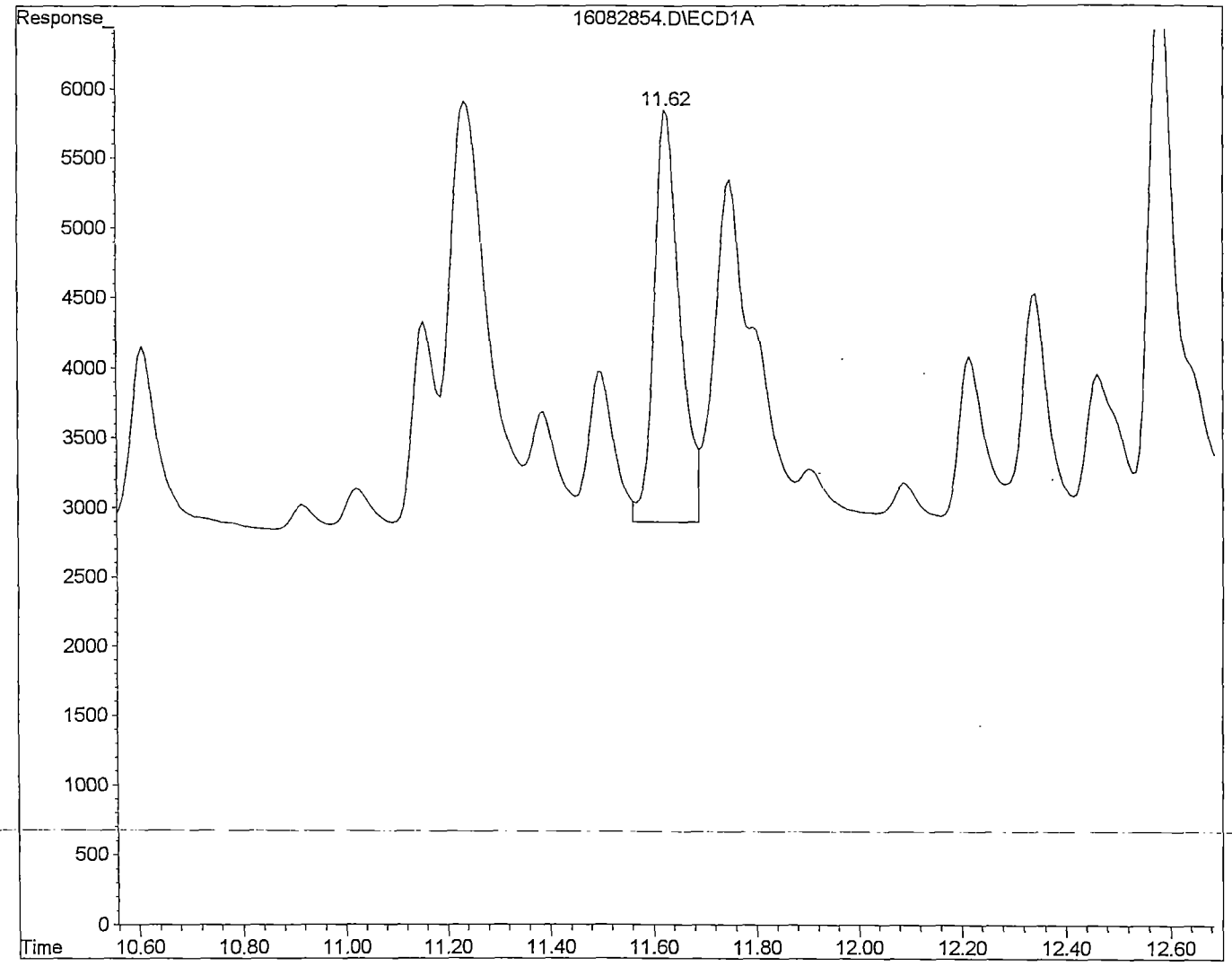
Integration Time Range: 6.01 - 6.16

TM 8-30-01

F:\HPCHEM\HP\16\DATA\08_28_01\16082854.D
Report generated: Thu Aug 30 18:34:35 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_28_01\16082854.D
Date Acquired: 29 Aug 2001 10:19
Inst: HP_16 Operator ID: TLM
Name: 47166.04DL *E00Y4DL *
Misc: *EPA*30.1G/5.0ML*27
Method: F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title: PCB/TOXAPHENE
Quant Time: Sep 10 12:27 2001 Quant Results File: XPCBH28.RES



Aroclor-1254 11.62min area: 101716 m

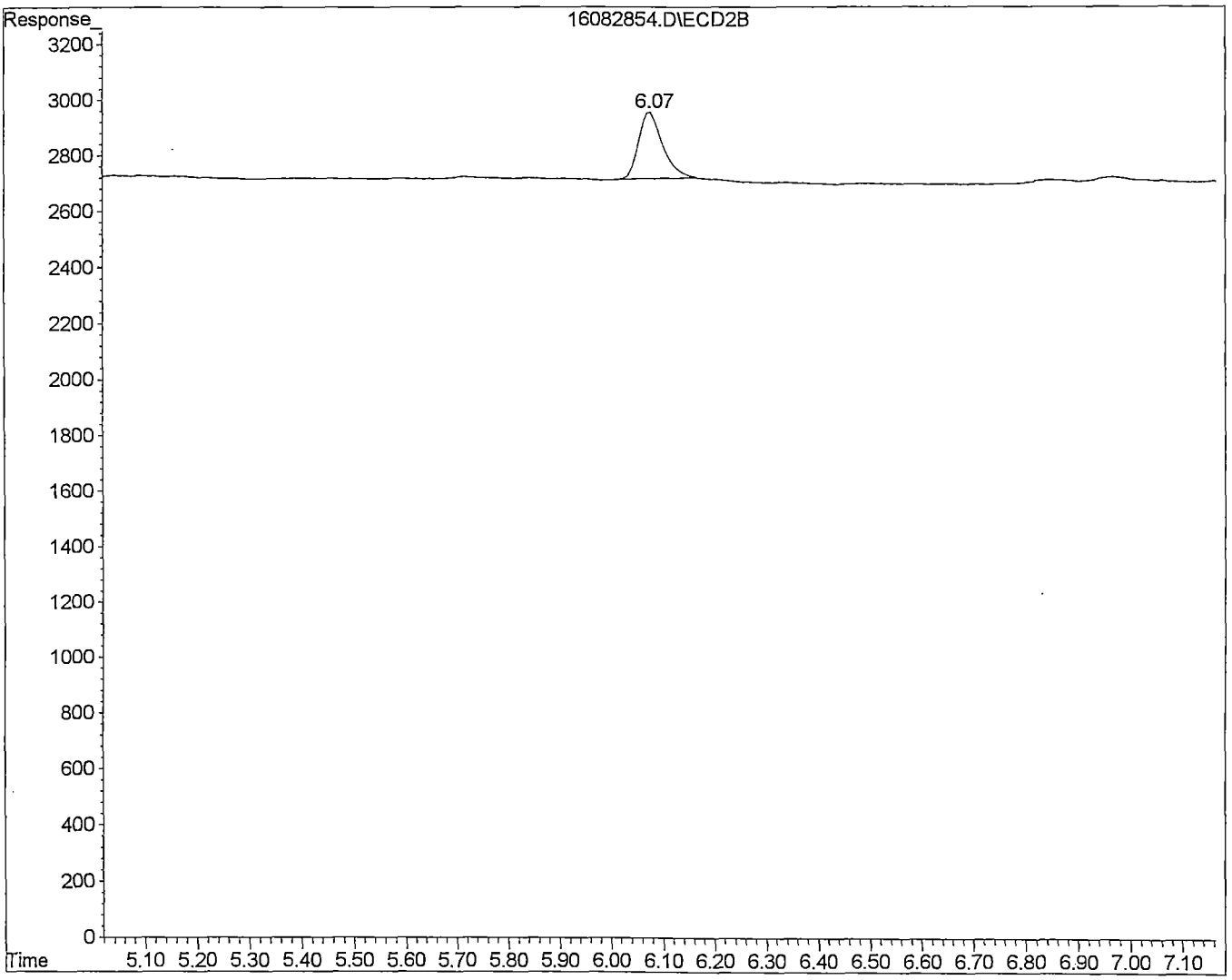
Integration Time Range: 11.56 - 11.68

JM
9-10-01

F:\HPCHEM\HP\16\DATA\08_28_01\16082854.D
Report generated: Mon Sep 10 12:32:19 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_28_01\16082854.D
Date Acquired: 29 Aug 2001 10:19
Inst: HP_16 Operator ID: TLM
Name: 47166.04DL *E00Y4DL *
Misc: *EPA*30.1G/5.0ML*27
Method: F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title: PCB/TOXAPHENE
Quant Time: Aug 30 16:52 2001 Quant Results File: XPCBH28.RES



TCX #2 6.07min area: 7653 m

Integration Time Range: 6.02 - 6.16

JMM 8-30-01

F:\HPCHEM\HP\16\DATA\08_28_01\16082854.D
Report generated: Thu Aug 30 18:34:36 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Y5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.05

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

% Moisture: 40 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	55	U
11104-28-2	Aroclor-1221	55	U
11141-16-5	Aroclor-1232	55	U
53469-21-9	Aroclor-1242	~~640~~	~~E~~ 1400 DJ
12672-29-6	Aroclor-1248	55	U
11097-69-1	Aroclor-1254	~~910~~	~~E~~ 830 D
11096-82-5	Aroclor-1260	300	
Surrogate amount spiked		11.08	

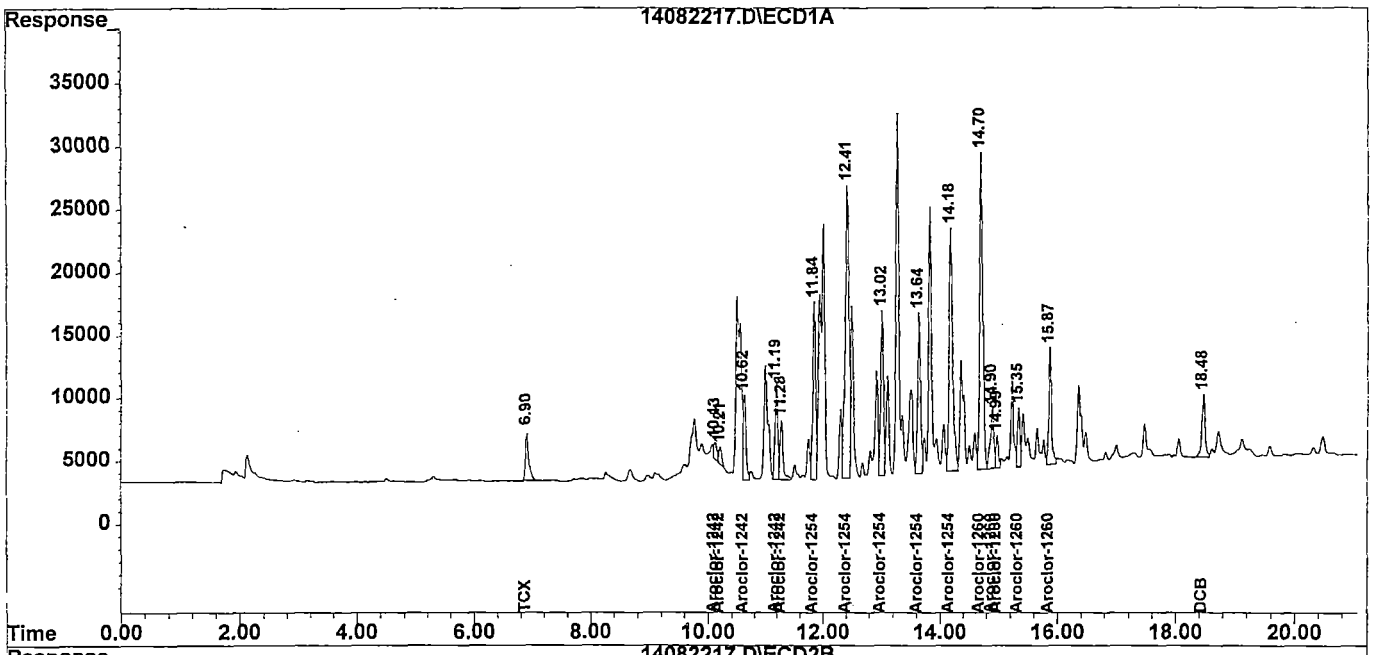
TB
10/8/01

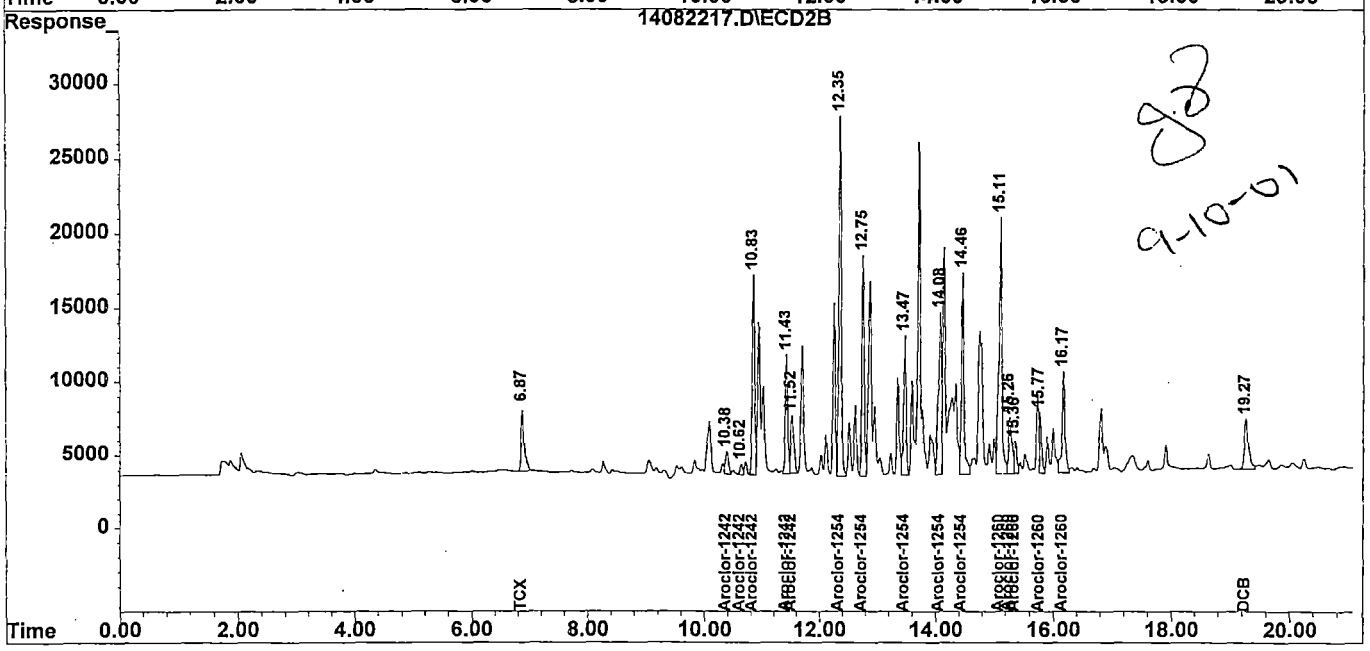
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082217.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082217.D\ECD2B.CH
Acq On : 22 Aug 2001 16:44 Operator: TLM
Sample : 47166.05 *E00Y5 * Inst : HP_14
Misc : *EPA*30.1G/5.0ML*40 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 17:07 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





8
9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082217.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082217.D\ECD2B.CH
Acq On : 22 Aug 2001 16:44 Operator: TLM
Sample : 47166.05 *E00Y5 * Inst : HP_14
Misc : *EPA*30.1G/5.0ML*40 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 17:07 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

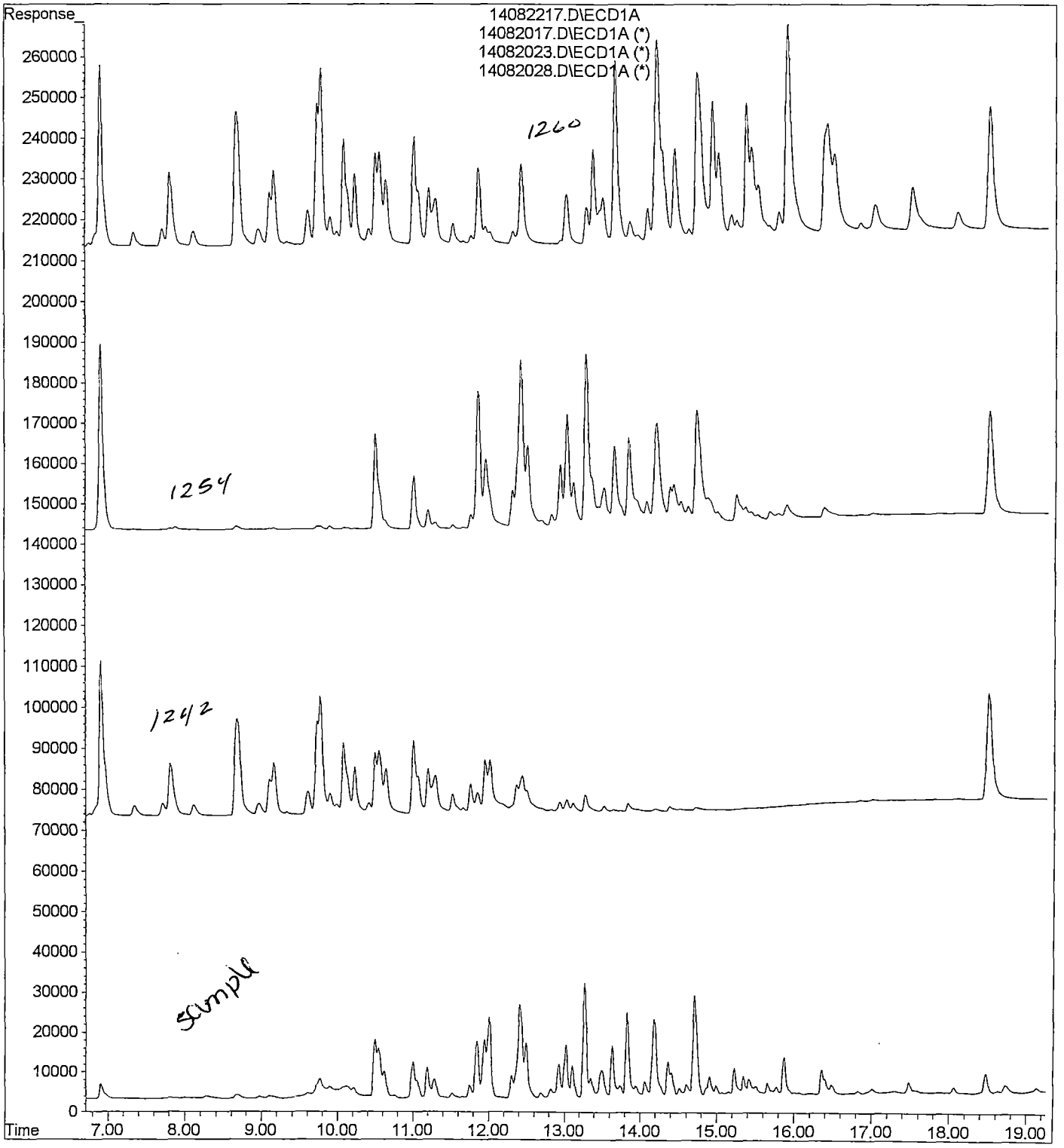
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	154644	158029	8.324	9.308
	Spiked Amount 11.074			Recovery	=	75.17%	84.05%
22)	S DCB	18.48	19.27	197493	168645	10.9	14.5m #
	Spiked Amount 11.074			Recovery	=	98.43%	130.94%
	Target Compounds:						
7)	L4 Aroclor-1242	10.12f	10.38	49140	58152	104.8m	163.8m #
8)	L4 Aroclor-1242 {2}	10.21	10.62	49828	23136	194.0m	127.1m #
9)	L4 Aroclor-1242 {3}	10.62	10.83	249579	414108	858.8 E	1723.7mE#
10)	L4 Aroclor-1242 {4}	11.19	11.43	265268	249384	1298.1 E	908.8mE#
11)	L4 Aroclor-1242 {5}	11.29	11.53	187831	143324	719.8	876.7mE
	Sum Aroclor-1242			801646	888104	3175.6	3800.1
	Average Aroclor-1242					635.114	760.013
12)	L6 Aroclor-1254	11.85	12.36	483204	737097	684.3	1233.7 E#
13)	L6 Aroclor-1254 {2}	12.42	12.75	1054973	442278	985.9 E	762.9 E
14)	L6 Aroclor-1254 {3}	13.02	13.48	439196	279156	830.9	713.7
15)	L6 Aroclor-1254 {4}	13.64	14.08	428175	384993	882.0 E	1067.3 E
16)	L6 Aroclor-1254 {5}	14.18	14.46	884085	429027	1162.6 E	1020.1 E
	Sum Aroclor-1254			3289633	2272551	4545.7	4797.7
	Average Aroclor-1254					909.136	959.538
17)	L7 Aroclor-1260	14.71	15.11	968210	639508	808.9	648.0
18)	L7 Aroclor-1260 {2}	14.91	15.27	190980	145822	270.4	261.4
19)	L7 Aroclor-1260 {3}	14.99	15.36	78288	66081	134.4	173.5 #
20)	L7 Aroclor-1260 {4}	15.35	15.77	142691	113121	274.4	204.9 #
21)	L7 Aroclor-1260 {5}	15.87	16.17	301888	237447	186.9	227.7
	Sum Aroclor-1260			1682058	1201978	927.5	839.1
	Average Aroclor-1260					335.008	303.096

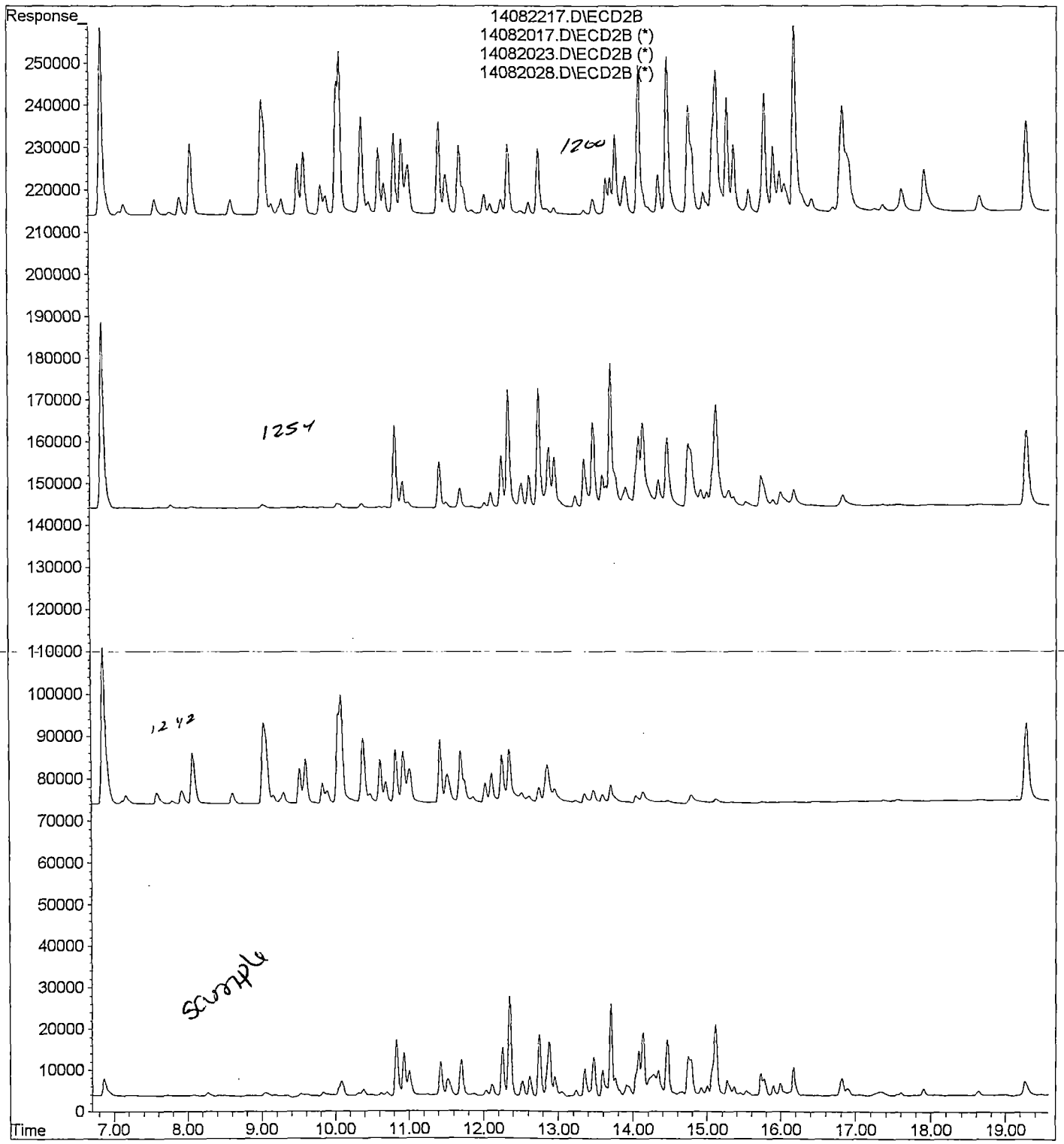
Jim 9-7-01

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

File : F:\HPCHEM\HP\14\DATA\08_22_01\14082217.D
Operator : TLM
Acquired : 22 Aug 2001 16:44 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.05 *E00Y5 *
Misc Info : *EPA*30.1G/5.0ML*40
Vial Number: 17

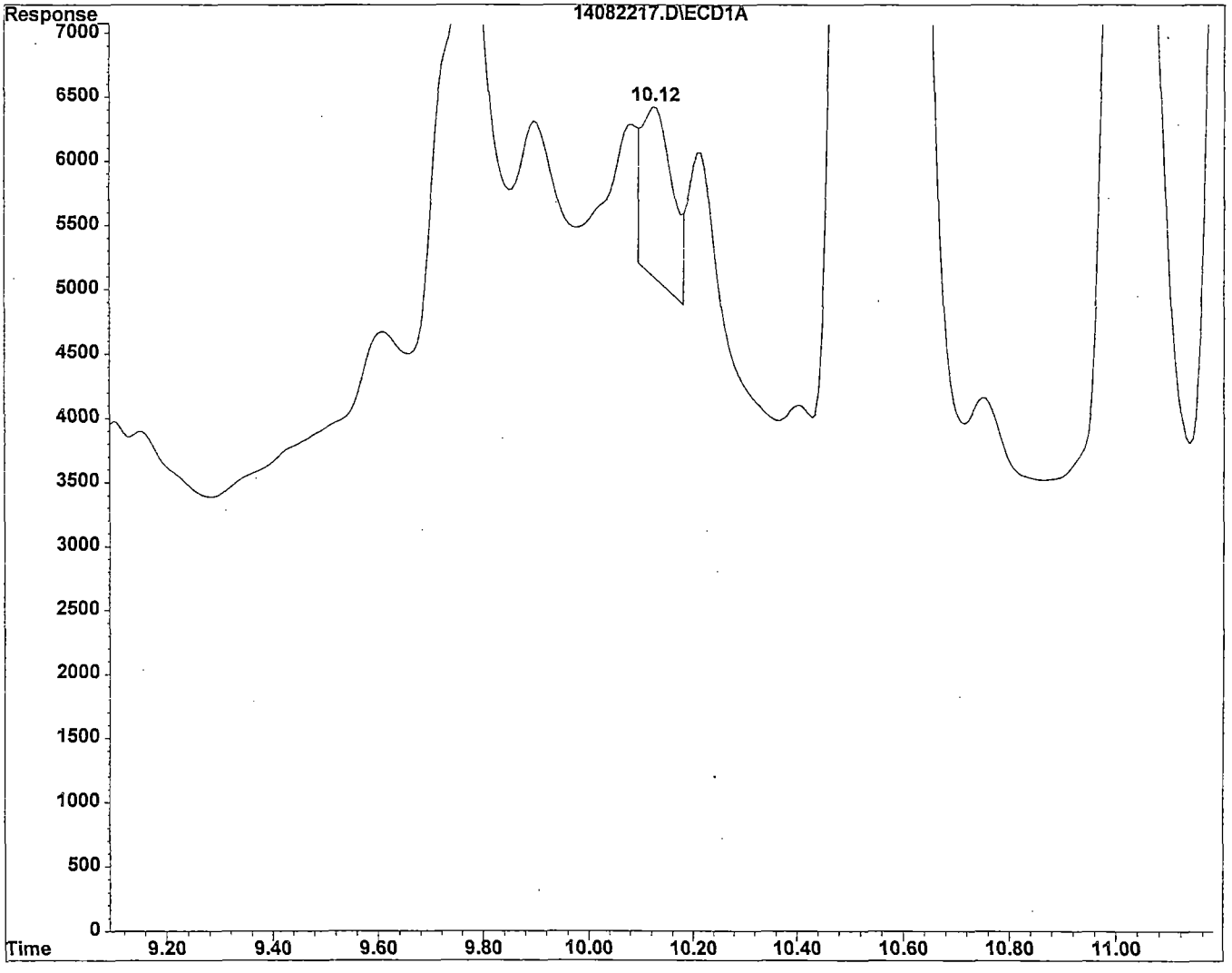


File : F:\HPCHEM\HP\14\DATA\08_22_01\14082217.D
Operator : TLM
Acquired : 22 Aug 2001 16:44 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.05 *E00Y5 *
Misc Info : *EPA*30.1G/5.0ML*40
Vial Number: 17



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082217.D
Date Acquired: 22 Aug 2001 16:44
Inst: HP_14 Operator ID: TLM
Name: 47166.05 *E00Y5 *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:07 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 10.12min area: 49140 m

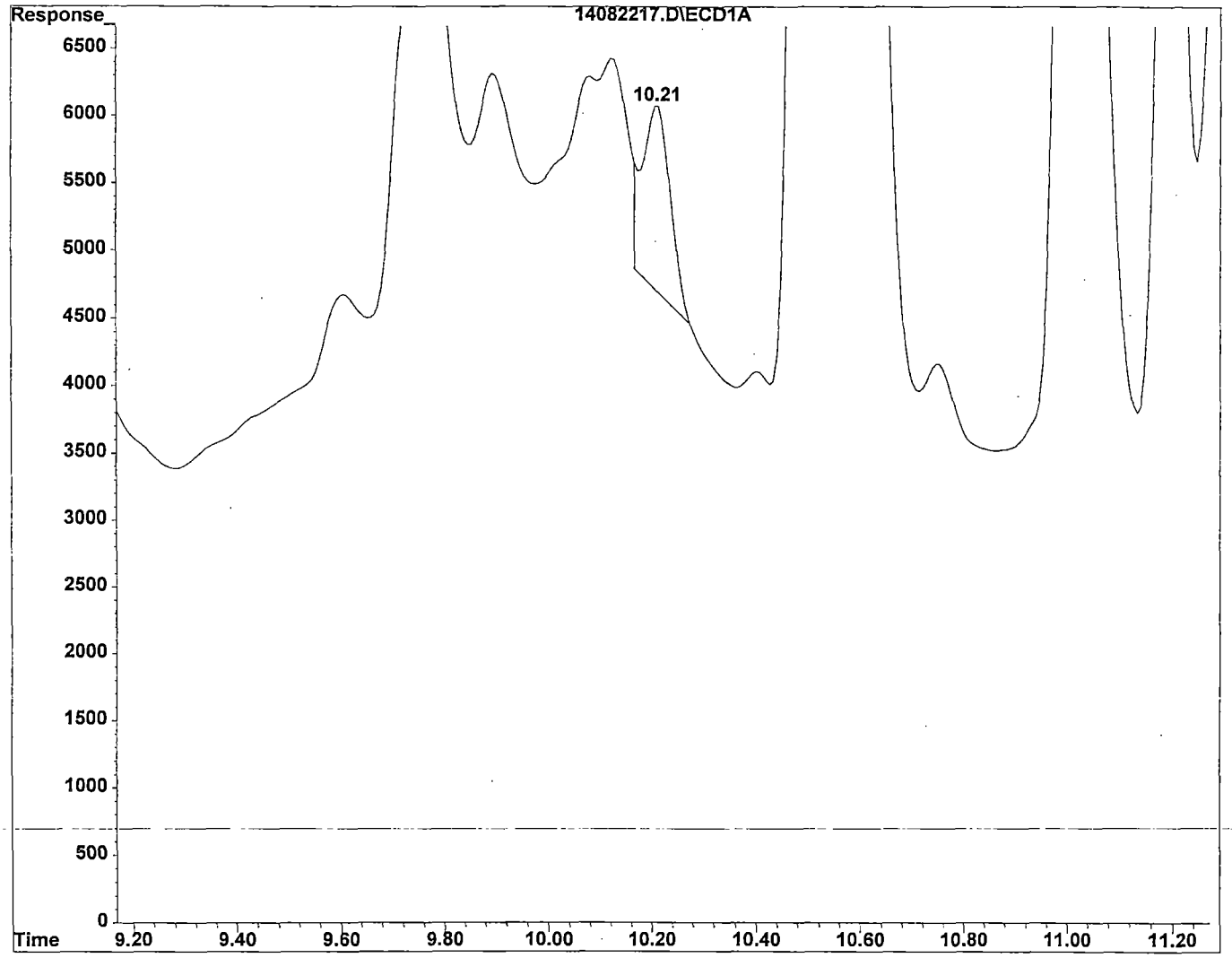
Integration Time Range: 10.09 - 10.18

7 NM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082217.D
Report generated: Fri Sep 07 09:35:02 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082217.D
Date Acquired: 22 Aug 2001 16:44
Inst: HP_14 Operator ID: TLM
Name: 47166.05 *E00Y5 *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:07 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {2} 10.21min area: 49828 m

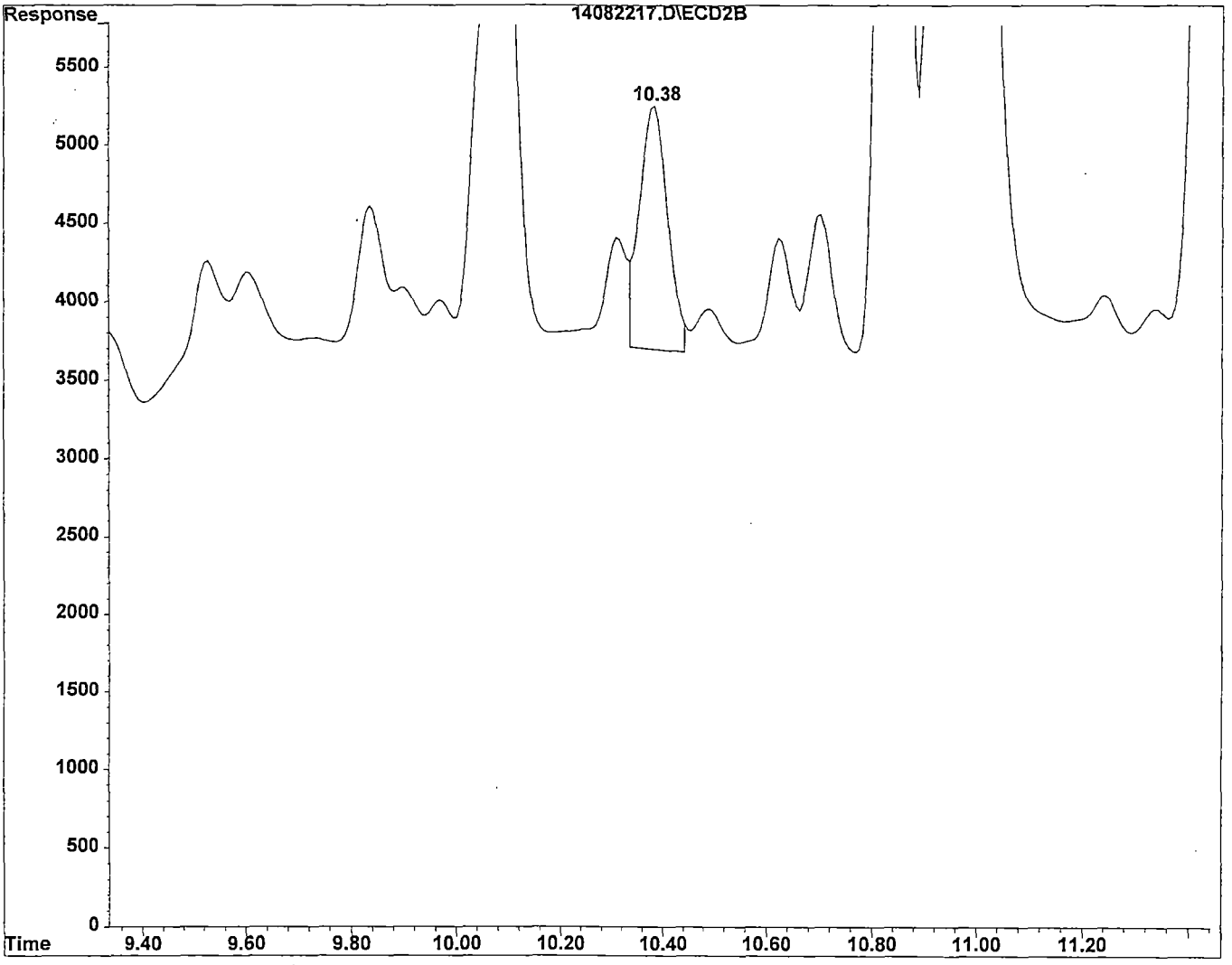
Integration Time Range: 10.17 - 10.27

JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082217.D
Report generated: Fri Sep 07 09:35:02 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082217.D
Date Acquired: 22 Aug 2001 16:44
Inst: HP_14 Operator ID: TLM
Name: 47166.05 *E00Y5 *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:07 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 #2 10.38min area: 58152 m

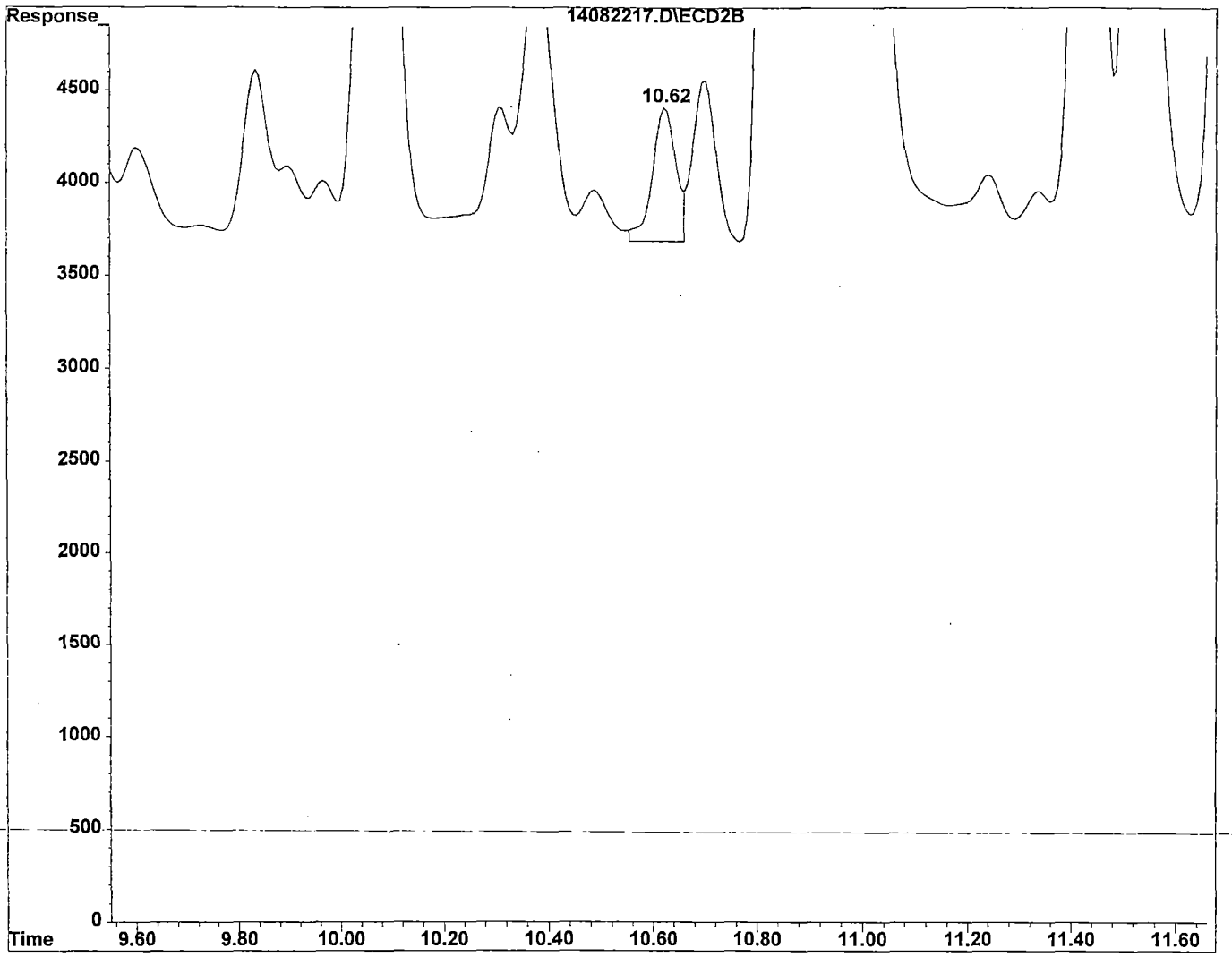
Integration Time Range: 10.33 - 10.44

JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082217.D
Report generated: Fri Sep 07 09:35:03 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082217.D
Date Acquired: 22 Aug 2001 16:44
Inst: HP_14 Operator ID: TLM
Name: 47166.05 *E00Y5 *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:07 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {2} #2 10.62min area: 23136 m

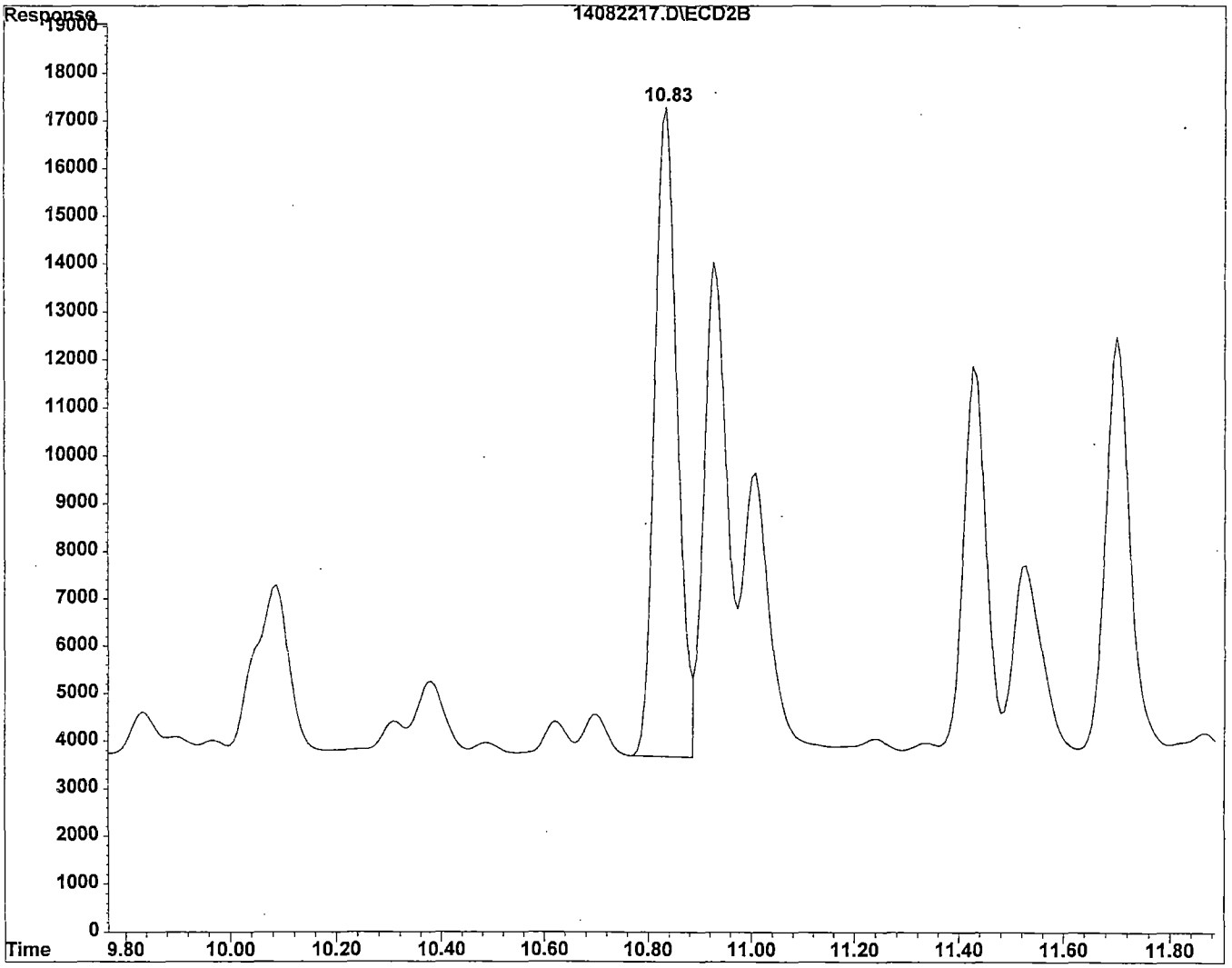
Integration Time Range: 10.55 - 10.66

JLM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082217.D
Report generated: Fri Sep 07 09:35:04 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082217.D
Date Acquired: 22 Aug 2001 16:44
Inst: HP_14 Operator ID: TLM
Name: 47166.05 *E00Y5 *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:07 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {3} #2 10.83min area: 414108 m

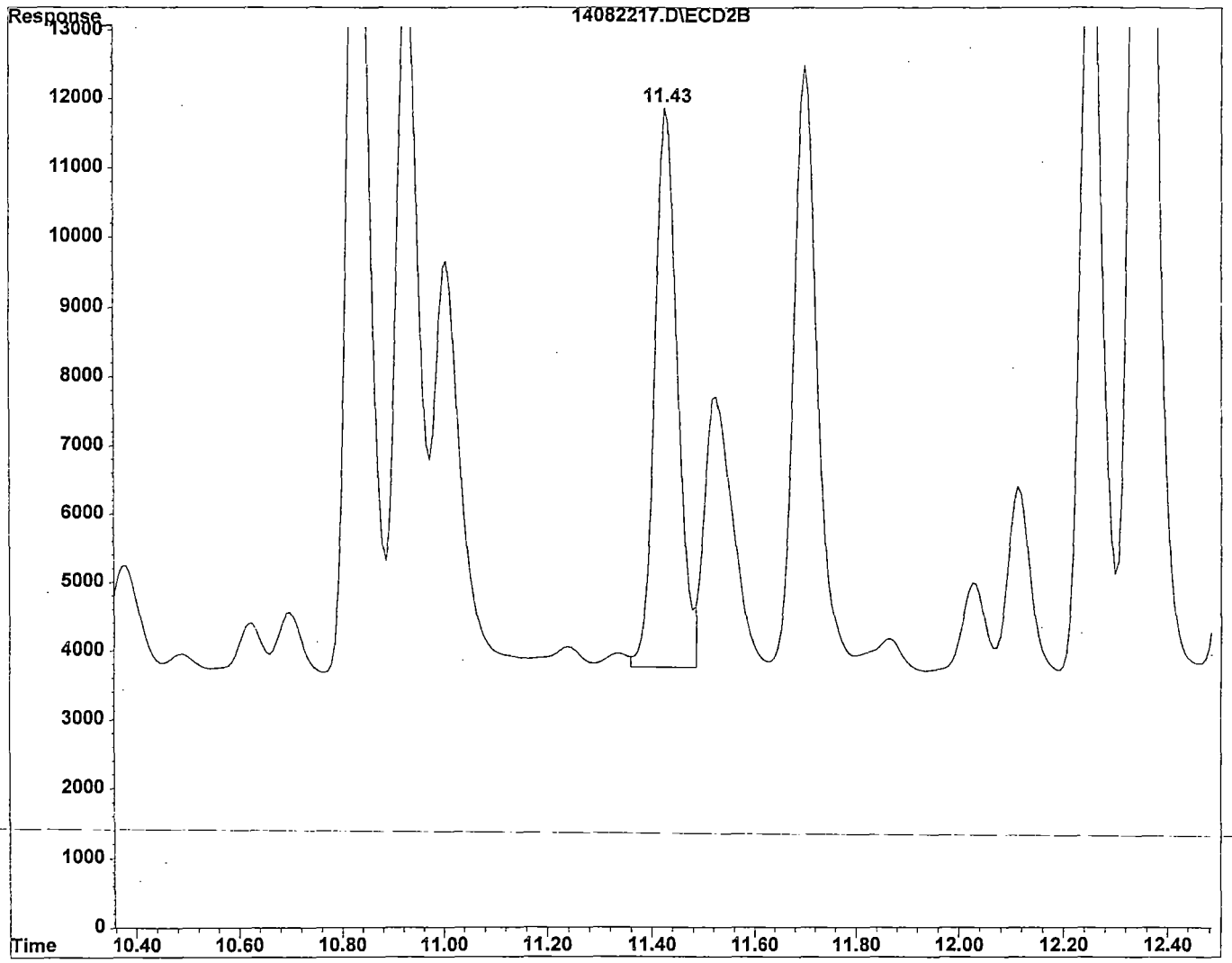
Integration Time Range: 10.77 - 10.88

JAA 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082217.D
Report generated: Fri Sep 07 09:35:05 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082217.D
Date Acquired: 22 Aug 2001 16:44
Inst: HP_14 Operator ID: TLM
Name: 47166.05 *E00Y5 *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:07 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {4} #2 11.43min area: 249384 m

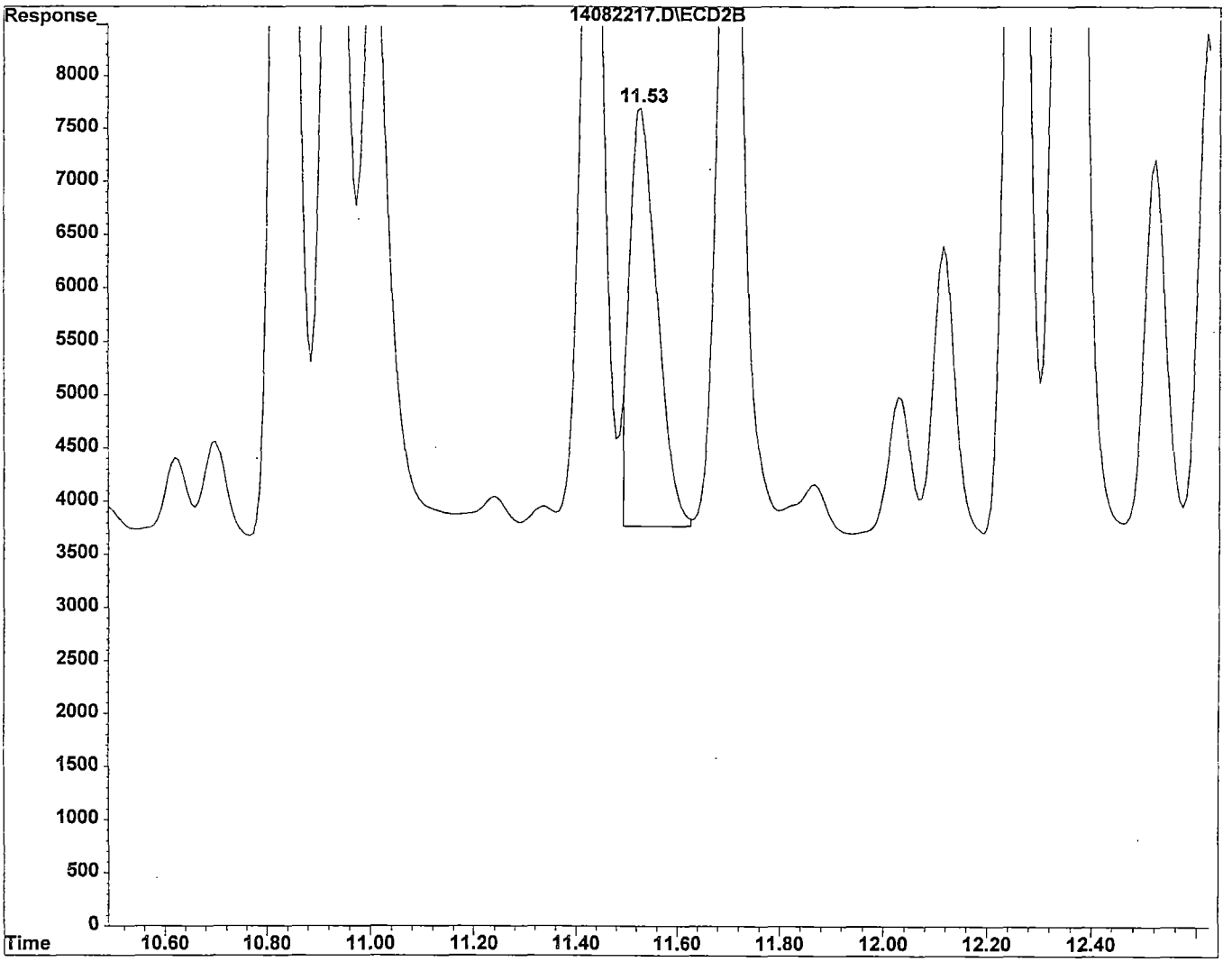
Integration Time Range: 11.36 - 11.48

JZH
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082217.D
Report generated: Fri Sep 07 09:35:05 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082217.D
Date Acquired: 22 Aug 2001 16:44
Inst: HP_14 Operator ID: TLM
Name: 47166.05 *E00Y5 *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:07 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {5} #2 11.53min area: 143324 m

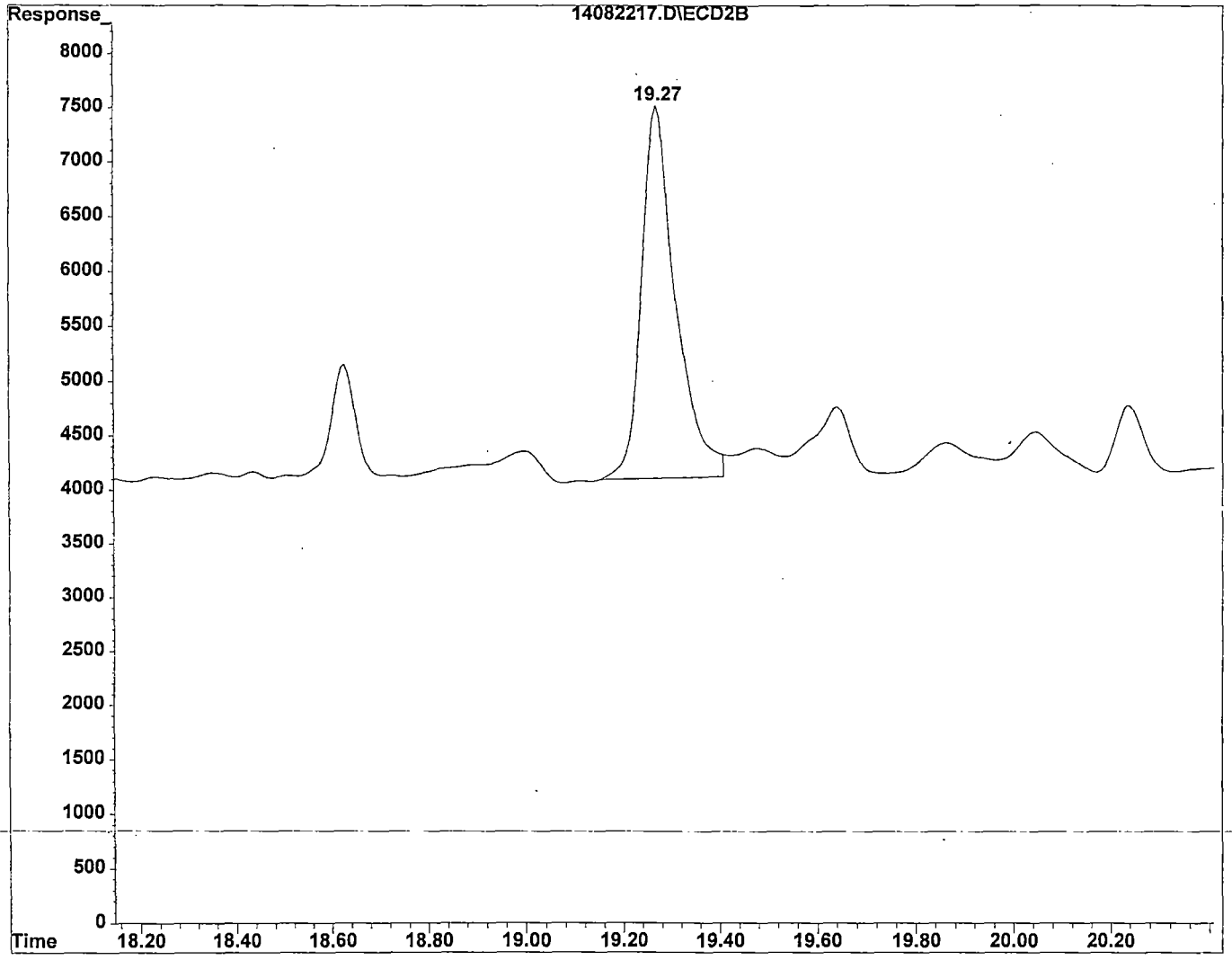
Integration Time Range: 11.49 - 11.62

TM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082217.D
Report generated: Fri Sep 07 09:35:06 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082217.D
Date Acquired: 22 Aug 2001 16:44
Inst: HP_14 Operator ID: TLM
Name: 47166.05 *E00Y5 *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:07 2001 Quant Results File: XPCBH20.RES



DCB #2 19.27min area: 168645 m

Integration Time Range: 19.15 - 19.41 TMA 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082217.D
Report generated: Fri Sep 07 09:35:07 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Y5DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.05DL

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

% Moisture: 40 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/29/01

Injection Volume: 0.5(uL) Dilution Factor: 5.0

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

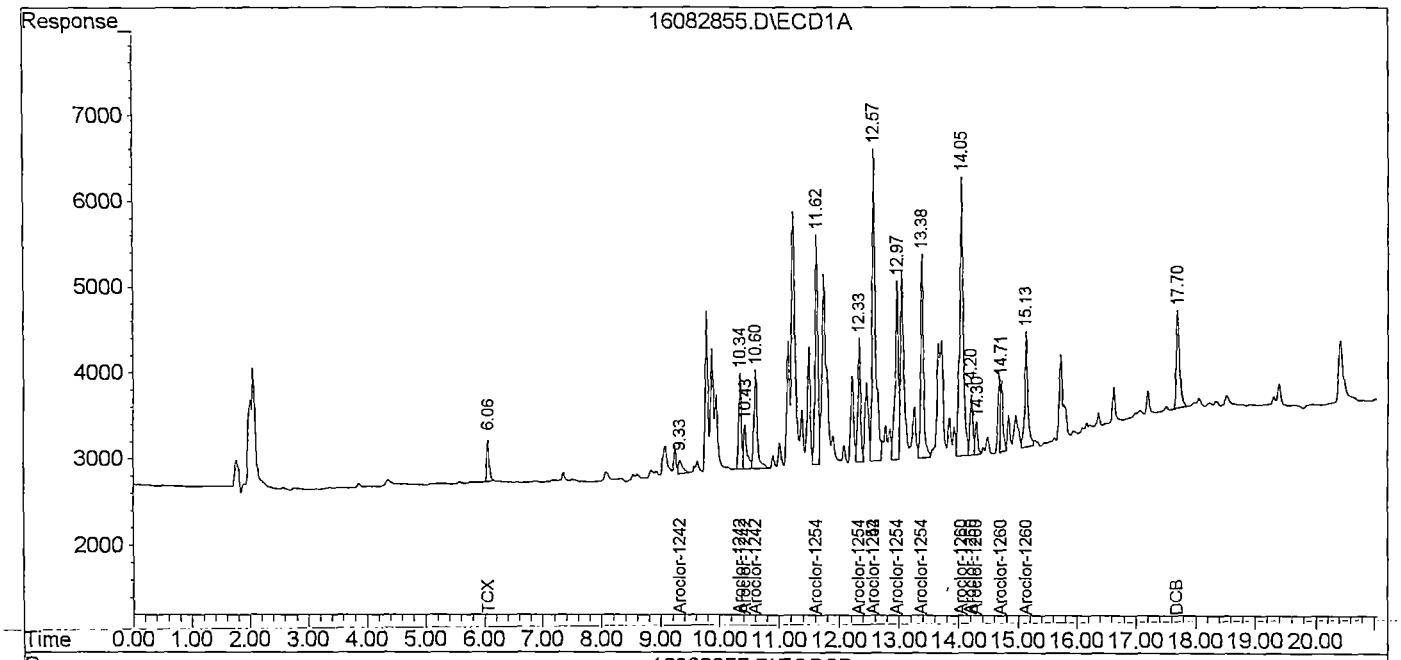
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	270	U
11104-28-2	Aroclor-1221	270	U
11141-16-5	Aroclor-1232	270	U
53469-21-9	Aroclor-1242	1400	DP
12672-29-6	Aroclor-1248	270	U
11097-69-1	Aroclor-1254	830	D
11096-82-5	Aroclor-1260	300	D
Surrogate amount spiked		11.08	

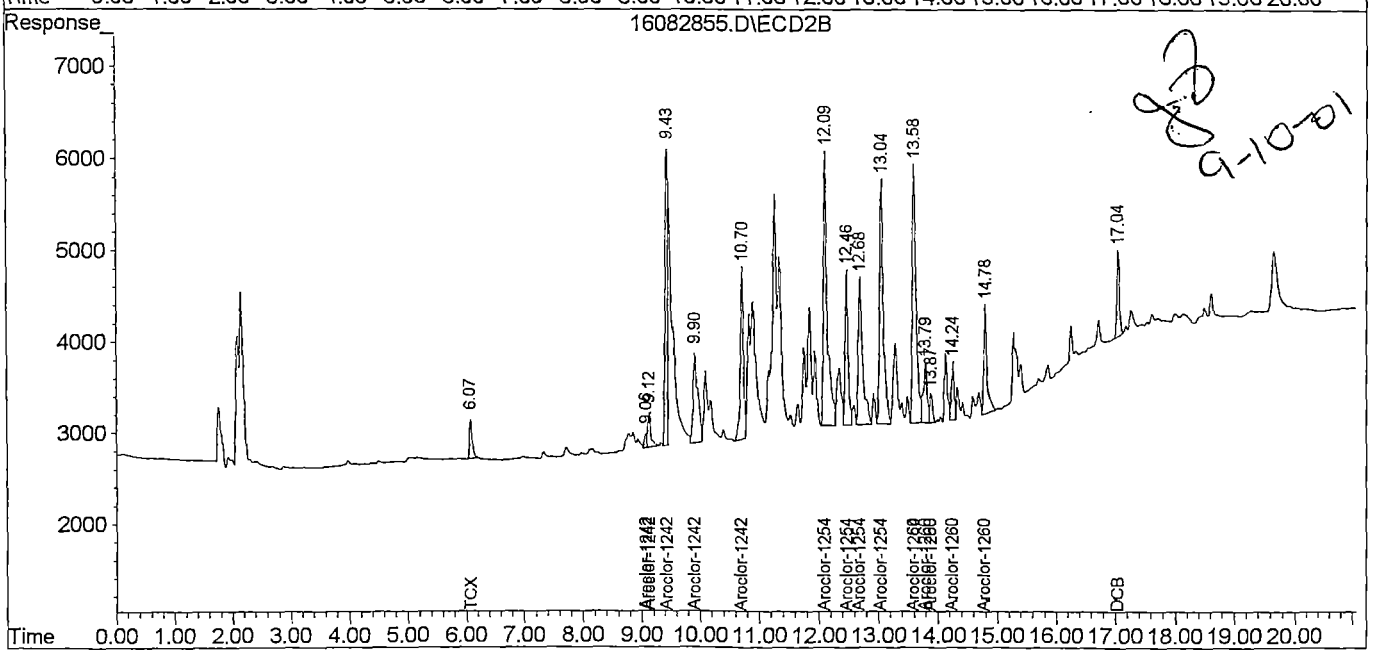
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082855.D\ECD1A.CH Vial: 55
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082855.D\ECD2B.CH
Acq On : 29 Aug 2001 10:43 Operator: TLM
Sample : 47166.05DL *E00Y5DL * Inst : HP_16
Misc : *EPA*30.1G/5.0ML*40 Dilution: 5.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 10 12:27 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082855.D\ECD1A.CH Vial: 55
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082855.D\ECD2B.CH
Acq On : 29 Aug 2001 10:43 Operator: TLM
Sample : 47166.05DL *E00Y5DL * Inst : HP_16
Misc : *EPA*30.1G/5.0ML*40 Dilution: 5.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 10 12:27 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

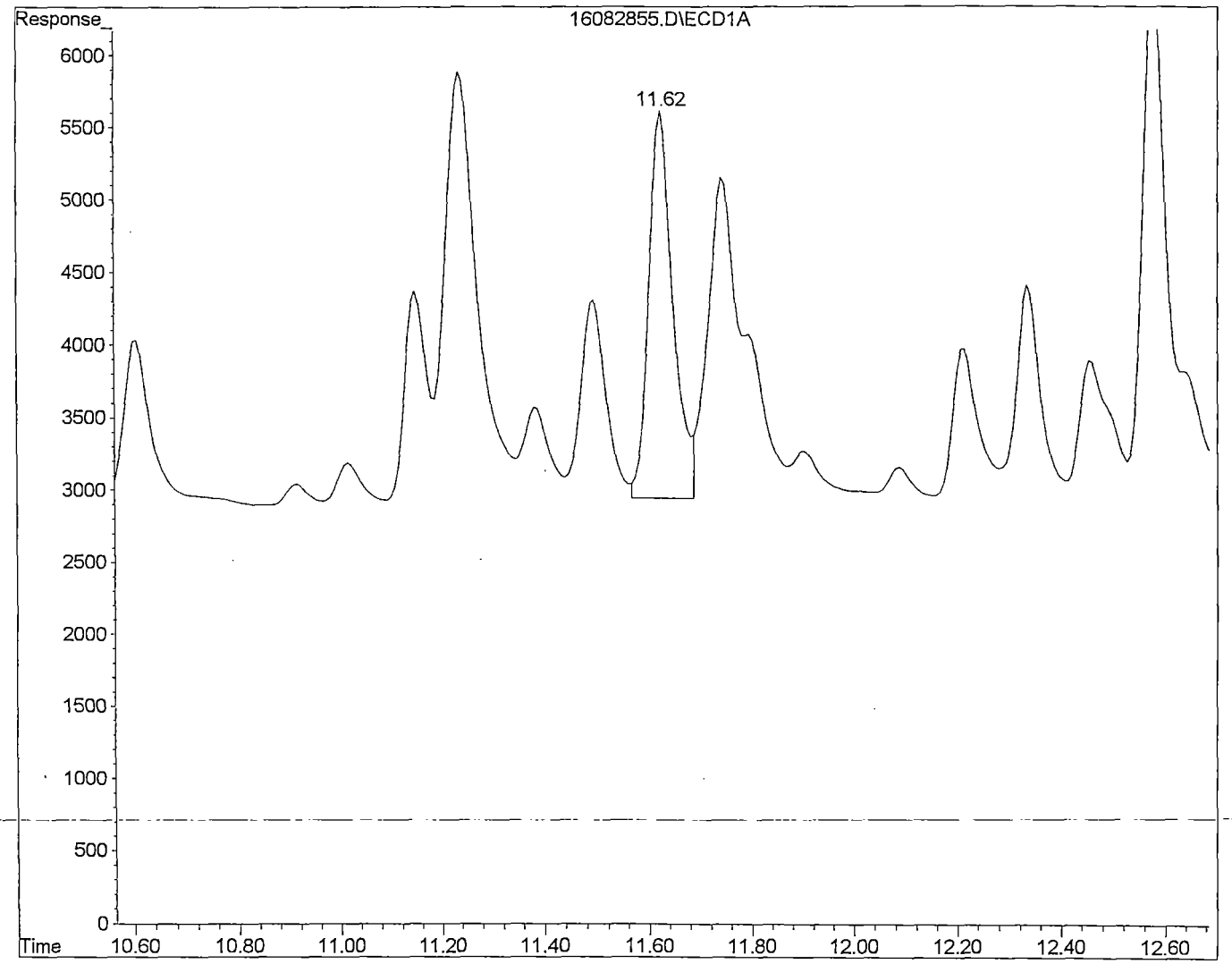
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	6.07	6.07	13899	14391	7.703	7.117	
	Spiked Amount 11.074			Recovery	=	69.56%	64.27%	
22)	S DCB	17.70	17.04	43342	26785	14.3	9.573	#
	Spiked Amount 11.074			Recovery	=	129.13%	86.44%	
	Target Compounds:							
7)	L4 Aroclor-1242	9.34	9.07	8015	4159	98.7	66.0	#
8)	L4 Aroclor-1242 {2}	10.35	9.12f	33722	13836	693.9	362.1	#
9)	L4 Aroclor-1242 {3}	10.43	9.43	21217	104864	774.5	3104.2m	#
10)	L4 Aroclor-1242 {4}	10.61	9.90	44957	54620	641.3	824.5m	#
11)	L4 Aroclor-1242 {5}	12.58	10.70	134279	69005	7391.8 E	2738.7	#
	Sum Aroclor-1242			242191	246484	9600.1	7095.5	
	Average Aroclor-1242					1920.016	1419.104	
12)	L6 Aroclor-1254	11.62	12.09	88160	134241	817.0m	925.5	
13)	L6 Aroclor-1254 {2}	12.34	12.46	46440	58692	645.5	904.6	#
14)	L6 Aroclor-1254 {3}	12.58	12.68	134279	82387	857.2	1079.4	#
15)	L6 Aroclor-1254 {4}	12.97	13.04	73657	114295	920.7	970.0	
16)	L6 Aroclor-1254 {5}	13.38	13.59	79994	127213	928.0	937.9	
	Sum Aroclor-1254			422530	516828	4168.4	4817.4	
	Average Aroclor-1254					833.683	963.471	
17)	L7 Aroclor-1260	14.05	13.59	133944	127213	715.0	655.5	
18)	L7 Aroclor-1260 {2}	14.21	13.79	24521	29266	227.7	278.7	
19)	L7 Aroclor-1260 {3}	14.30	13.88	12246	10360	160.2	145.3	
20)	L7 Aroclor-1260 {4}	14.72	14.24	24509	20148	231.1	215.9	
21)	L7 Aroclor-1260 {5}	15.13	14.78	48174	43524	221.6	189.3	
	Sum Aroclor-1260			243395	230511	4306.8	4110.3	
	Average Aroclor-1260					311.121	296.928	

JM 9-10-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_28_01\16082855.D
Date Acquired: 29 Aug 2001 10:43
Inst: HP_16 Operator ID: TLM
Name: 47166.05DL *E00Y5DL *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title: PCB/TOXAPHENE
Quant Time: Sep 10 12:27 2001 Quant Results File: XPCBH28.RES



Aroclor-1254 11.62min area: 88160 m

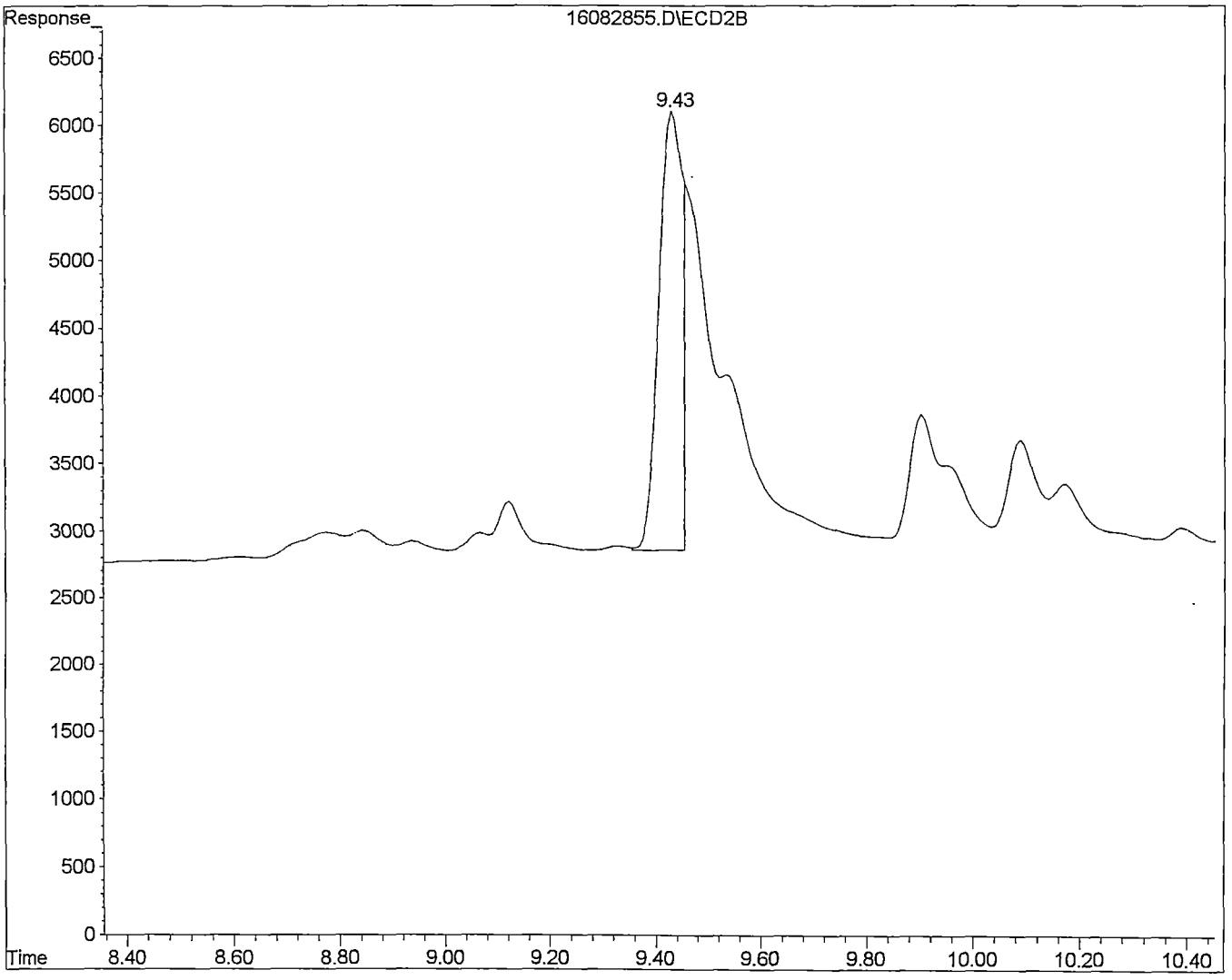
Integration Time Range: 11.56 - 11.68

JM
9-10-01

F:\HPCHEM\HP\16\DATA\08_28_01\16082855.D
Report generated: Mon Sep 10 12:32:21 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_28_01\16082855.D
Date Acquired: 29 Aug 2001 10:43
Inst: HP_16 Operator ID: TLM
Name: 47166.05DL *E00Y5DL *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 10:16 2001 Quant Results File: XPCBH28.RES



Aroclor-1242 {3} #2 9.43min area: 104864 m

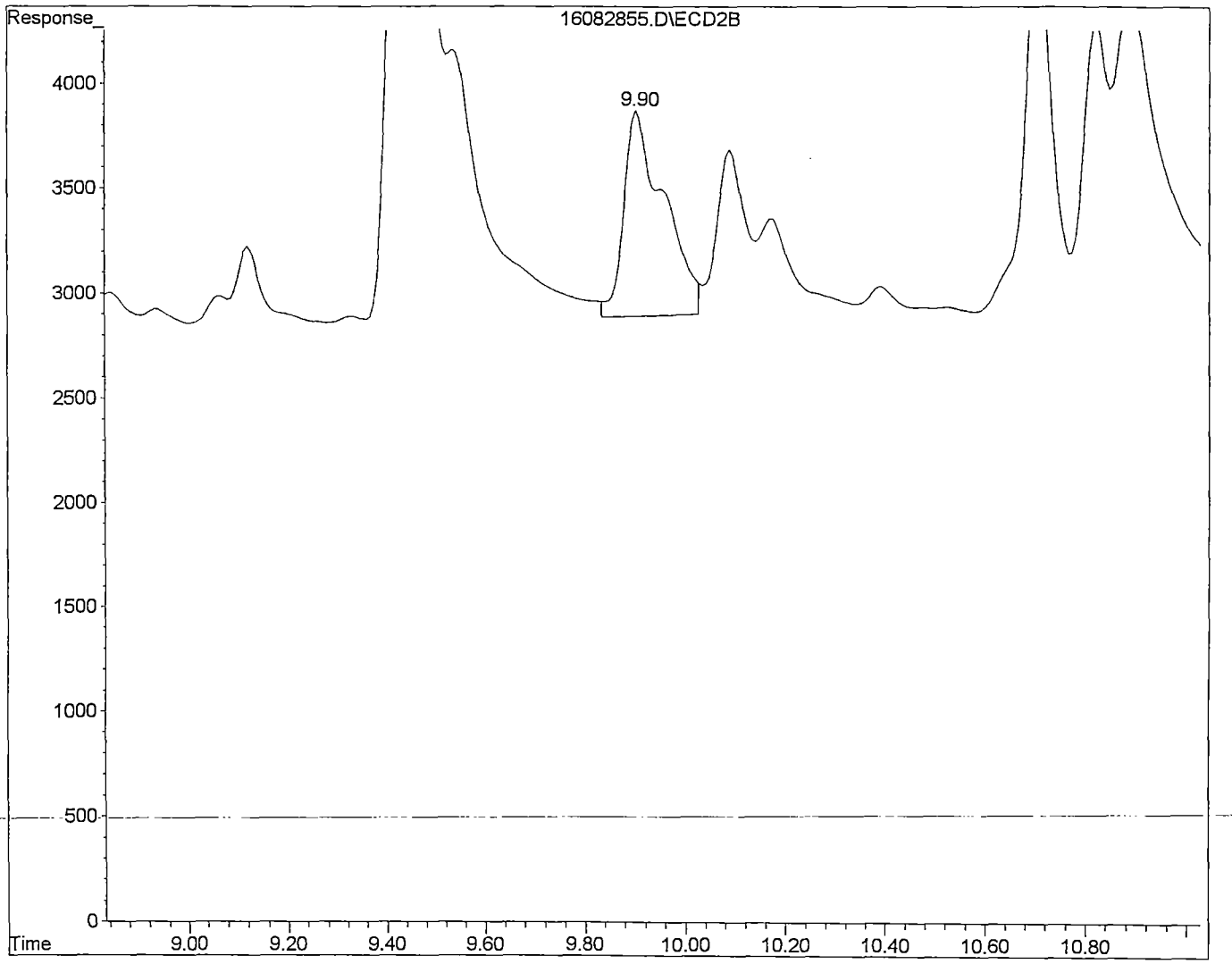
Integration Time Range: 9.35 - 9.45

JM
9-7-01

F:\HPCHEM\HP\16\DATA\08_28_01\16082855.D
Report generated: Fri Sep 07 10:17:52 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_28_01\16082855.D
Date Acquired: 29 Aug 2001 10:43
Inst: HP_16 Operator ID: TLM
Name: 47166.05DL *E00Y5DL *
Misc: *EPA*30.1G/5.0ML*40
Method: F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 10:16 2001 Quant Results File: XPCBH28.RES



Aroclor-1242 {4} #2 9.90min area: 54620 m

Integration Time Range: 9.83 - 10.03

TM
9-7-01

F:\HPCHEM\HP\16\DATA\08_28_01\16082855.D
Report generated: Fri Sep 07 10:17:53 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Y6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.06

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

% Moisture: 38 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

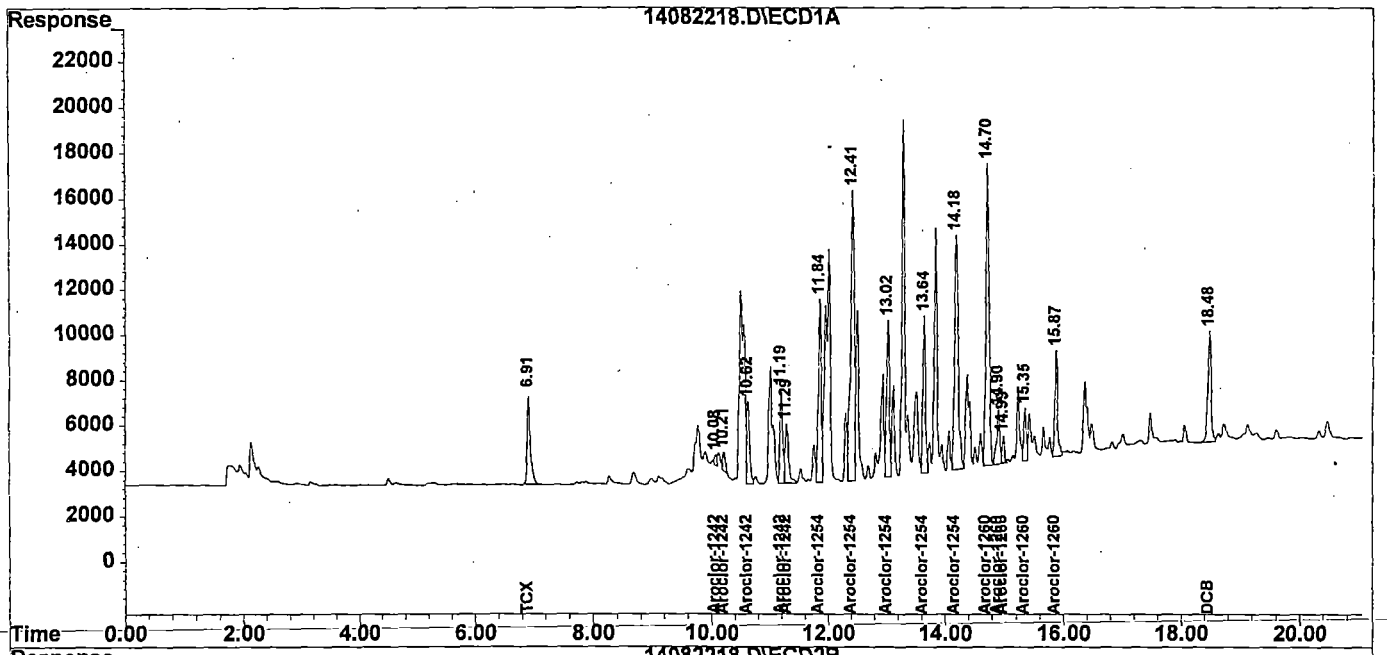
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	52	U
11104-28-2	Aroclor-1221	52	U
11141-16-5	Aroclor-1232	52	U
53469-21-9	Aroclor-1242	310	~~P~~ J
12672-29-6	Aroclor-1248	52	U
11097-69-1	Aroclor-1254	460	
11096-82-5	Aroclor-1260	160	
	Surrogate amount spiked	10.58	

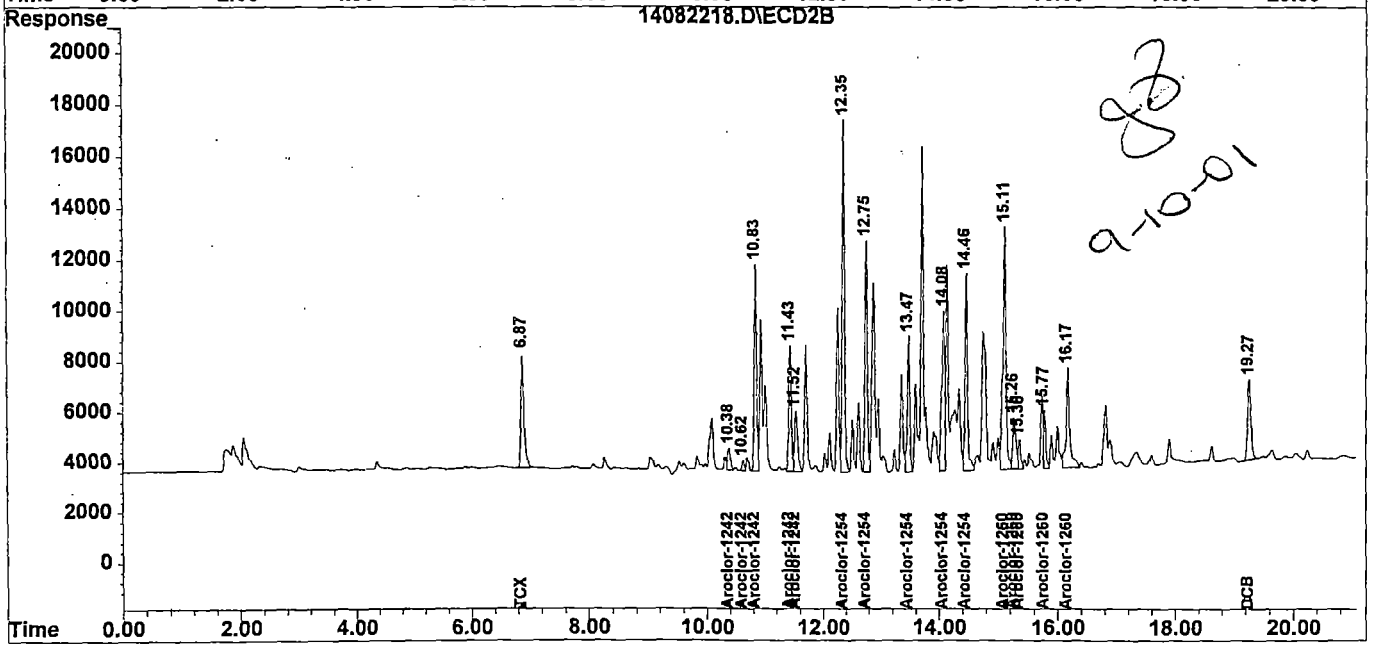
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082218.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082218.D\ECD2B.CH
Acq On : 22 Aug 2001 17:08 Operator: TLM
Sample : 47166.06 *E00Y6 * Inst : HP_14
Misc : *EPA*30.5G/5.0ML*38 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 17:08 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





8
9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082218.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082218.D\ECD2B.CH
Acq On : 22 Aug 2001 17:08 Operator: TLM
Sample : 47166.06 *E00Y6 * Inst : HP_14
Misc : *EPA*30.5G/5.0ML*38 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 17:08 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

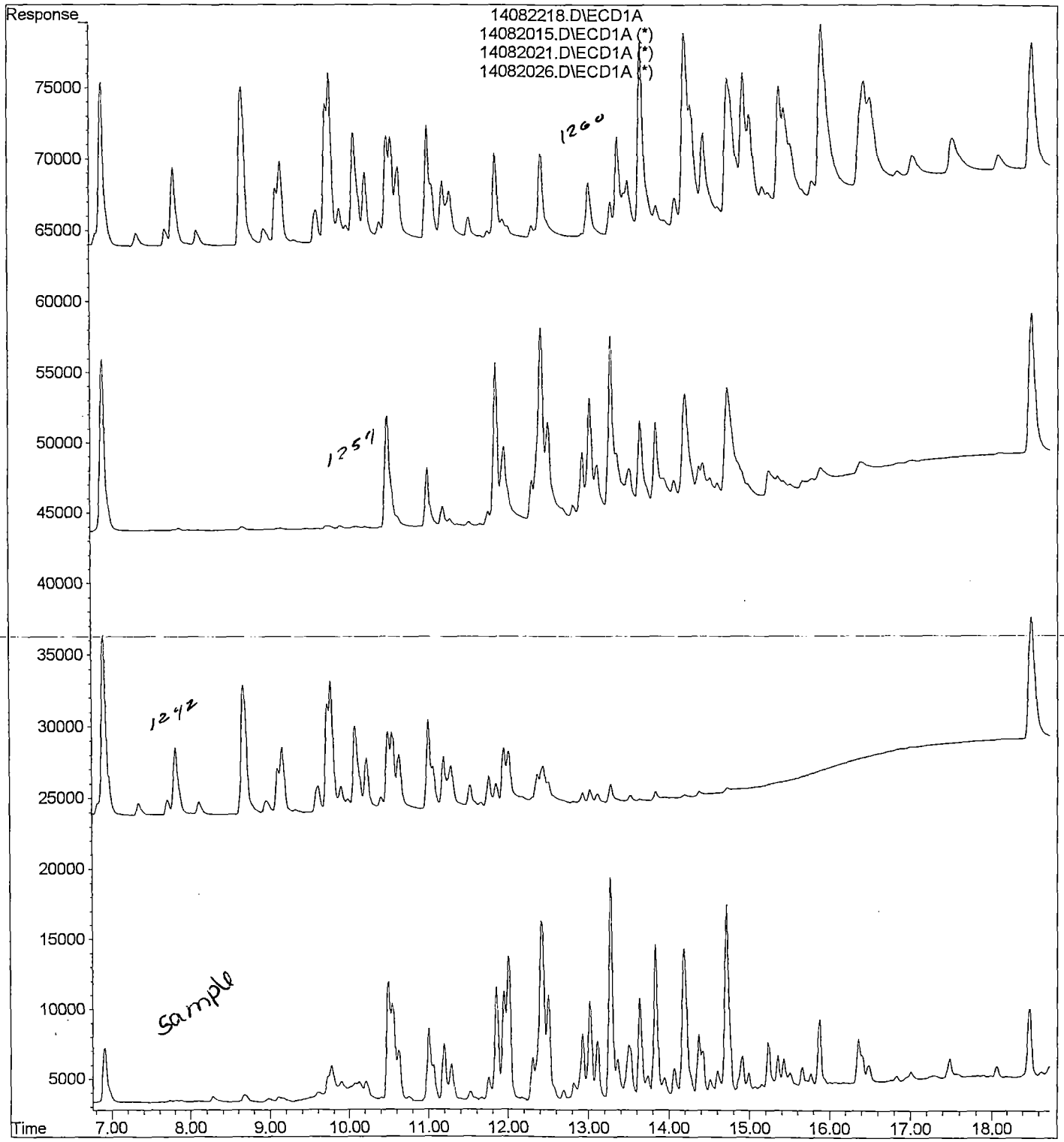
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
System Monitoring Compounds:							
1) S TCX	6.91	6.87	152882	161020	7.859	9.058	
Spiked Amount 10.576			Recovery	=	74.31%	85.64%	
22) S DCB	18.48	19.27	184056	123899	9.662	10.1	
Spiked Amount 10.576			Recovery	=	91.35%	95.50%	
Target Compounds:							
7) L4 Aroclor-1242	10.07	10.38	14388	32429	29.3m	87.2	#
8) L4 Aroclor-1242 {2}	10.21	10.62	24296	12069	90.3m	63.3	#
9) L4 Aroclor-1242 {3}	10.62	10.83	127950	241744	420.5	961.0	E#
10) L4 Aroclor-1242 {4}	11.19	11.43	139368	150763	651.4	524.7	
11) L4 Aroclor-1242 {5}	11.29	11.53	103980	92138	380.6	538.2	#
Sum Aroclor-1242			409983	529143	1572.1	2174.5	
Average Aroclor-1242					314.413	434.907	
12) L6 Aroclor-1254	11.85	12.35	272006	413794	367.9	661.4	#
13) L6 Aroclor-1254 {2}	12.42	12.75	575634	265198	513.8	436.9	
14) L6 Aroclor-1254 {3}	13.02	13.48	229077	155281	413.9	379.1	
15) L6 Aroclor-1254 {4}	13.64	14.08	226018	219972	444.6	582.4	#
16) L6 Aroclor-1254 {5}	14.18	14.46	455326	231780	571.9	526.3	
Sum Aroclor-1254			1758061	1286025	2312.1	2586.2	
Average Aroclor-1254					462.411	517.245	
17) L7 Aroclor-1260	14.71	15.11	495419	350917	395.3	339.6	
18) L7 Aroclor-1260 {2}	14.91	15.27	88633	75810	119.9	129.8	
19) L7 Aroclor-1260 {3}	14.99	15.36	31631	33257	51.9	83.4	#
20) L7 Aroclor-1260 {4}	15.35	15.77	67419	61806	123.8	106.9	
21) L7 Aroclor-1260 {5}	15.87	16.17	144468	166406	85.4	152.4	#
Sum Aroclor-1260			827569	688197	410.5	429.4	
Average Aroclor-1260					155.254	162.417	

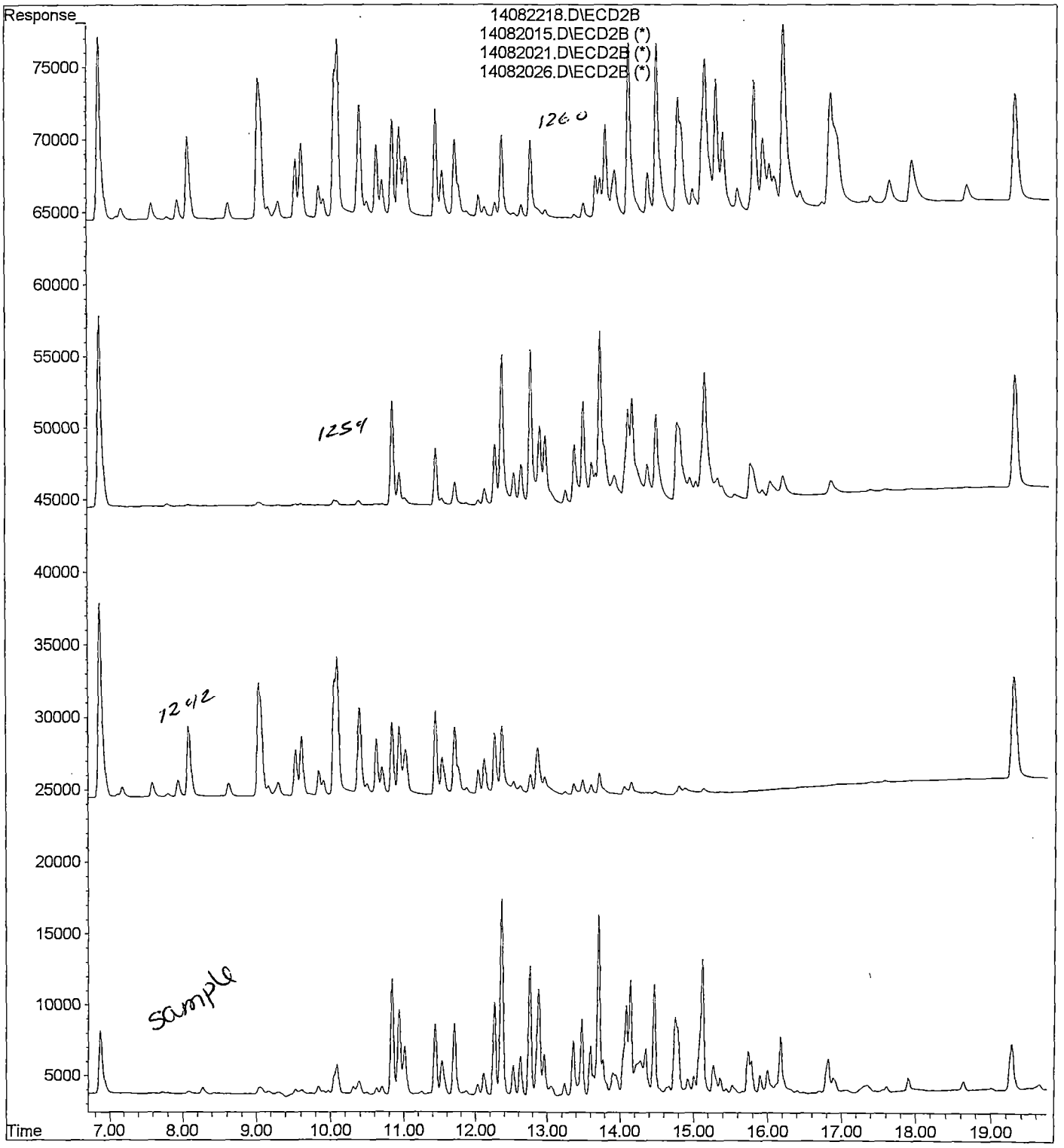
JMM 9-1-01

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

File : F:\HPCHEM\HP\14\DATA\08_22_01\14082218.D
Operator : TLM
Acquired : 22 Aug 2001 17:08 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.06 *E00Y6 *
Misc Info : *EPA*30.5G/5.0ML*38
Vial Number: 18

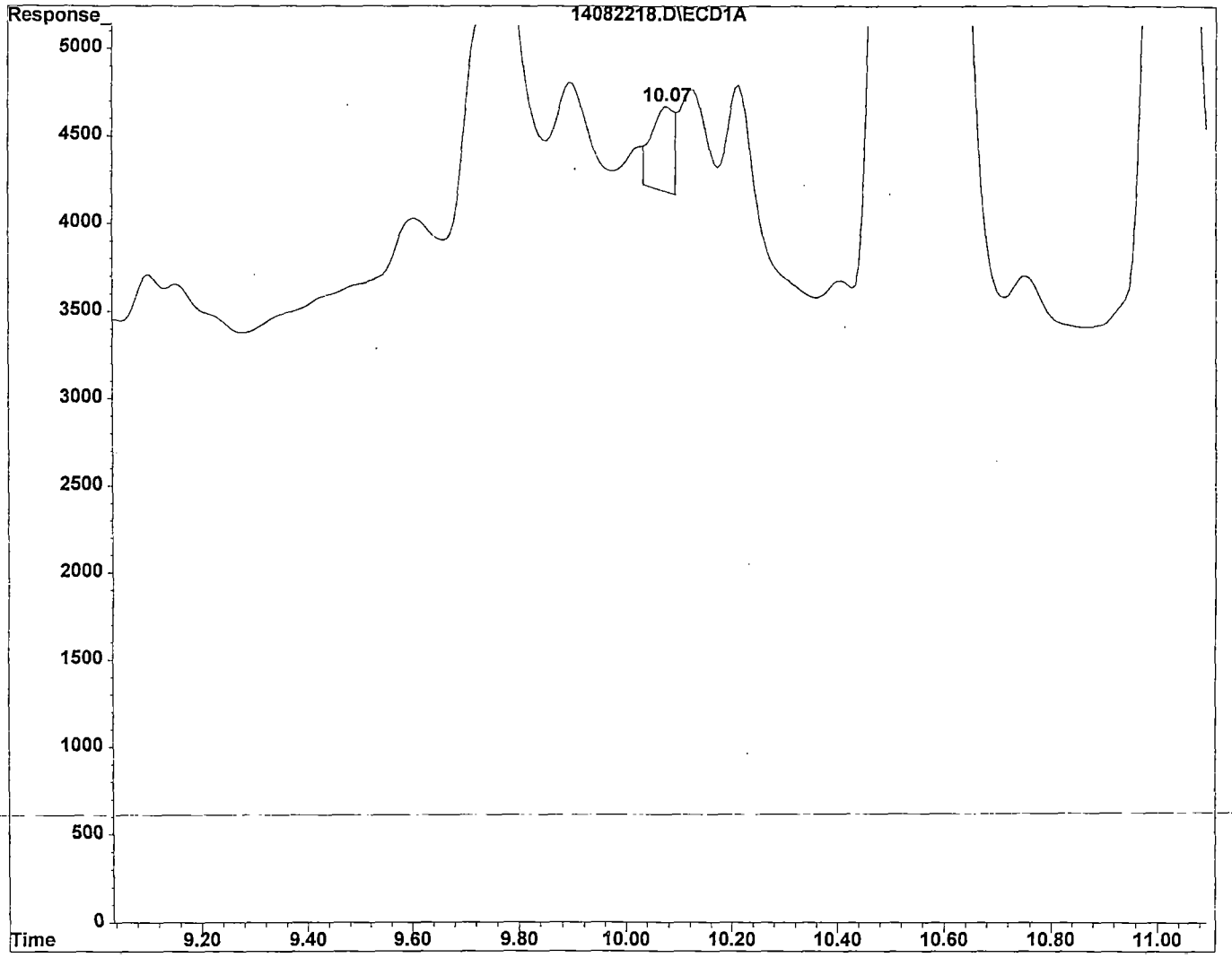


File : F:\HPCHEM\HP\14\DATA\08_22_01\14082218.D
Operator : TLM
Acquired : 22 Aug 2001 17:08 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.06 *E00Y6 *
Misc Info : *EPA*30.5G/5.0ML*38
Vial Number: 18



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082218.D
Date Acquired: 22 Aug 2001 17:08
Inst: HP_14 Operator ID: TLM
Name: 47166.06 *E00Y6 *
Misc: *EPA*30.5G/5.0ML*38
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:08 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 10.07min area: 14388 m

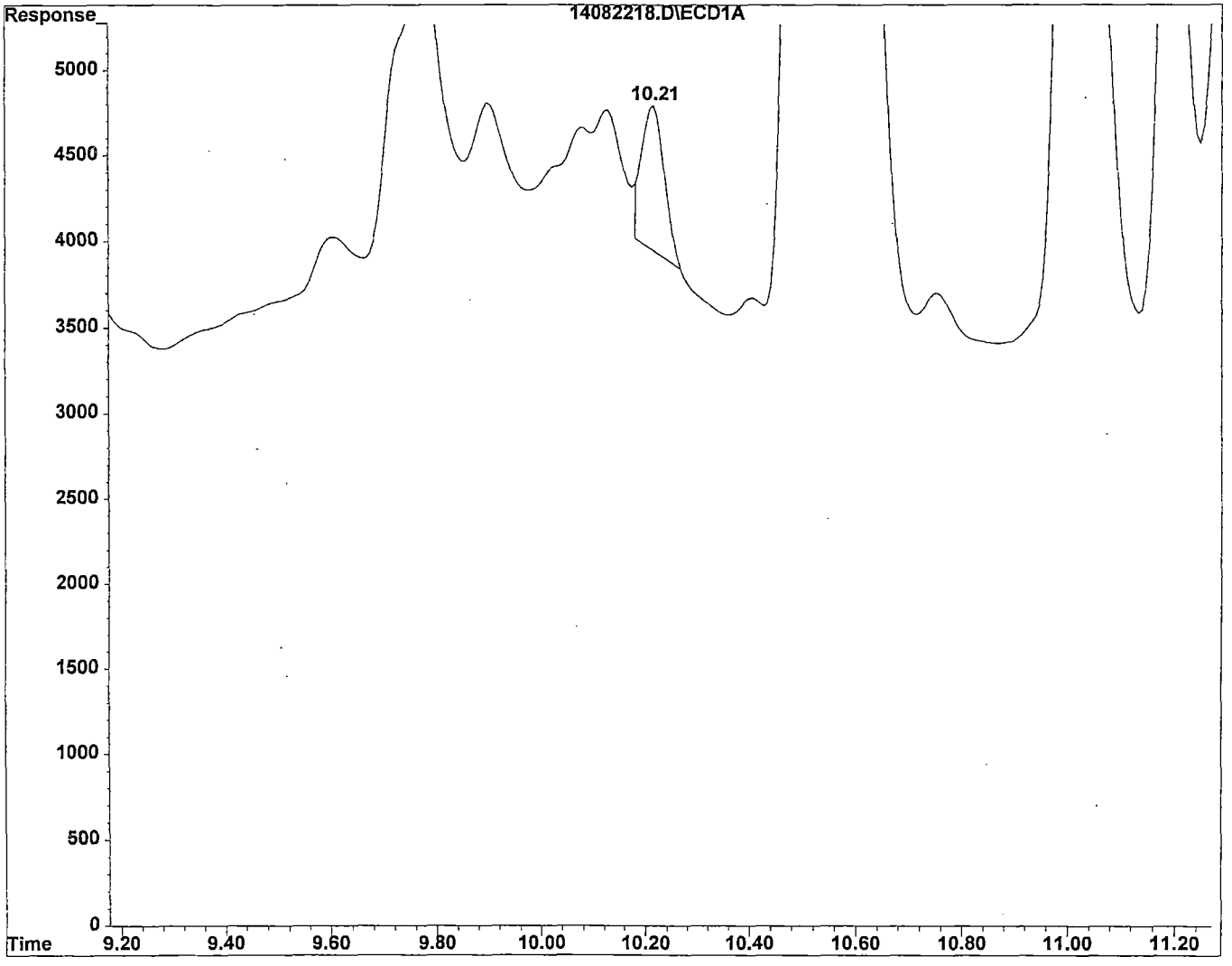
Integration Time Range: 10.04 - 10.09

JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082218.D
Report generated: Fri Sep 07 09:35:08 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082218.D
Date Acquired: 22 Aug 2001 17:08
Inst: HP_14 Operator ID: TLM
Name: 47166.06 *E00Y6 *
Misc: *EPA*30.5G/5.0ML*38
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:08 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {2} 10.21min area: 24296 m

Integration Time Range: 10.18 - 10.27

JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082218.D
Report generated: Fri Sep 07 09:35:09 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Y7

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.07

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

% Moisture: 7 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

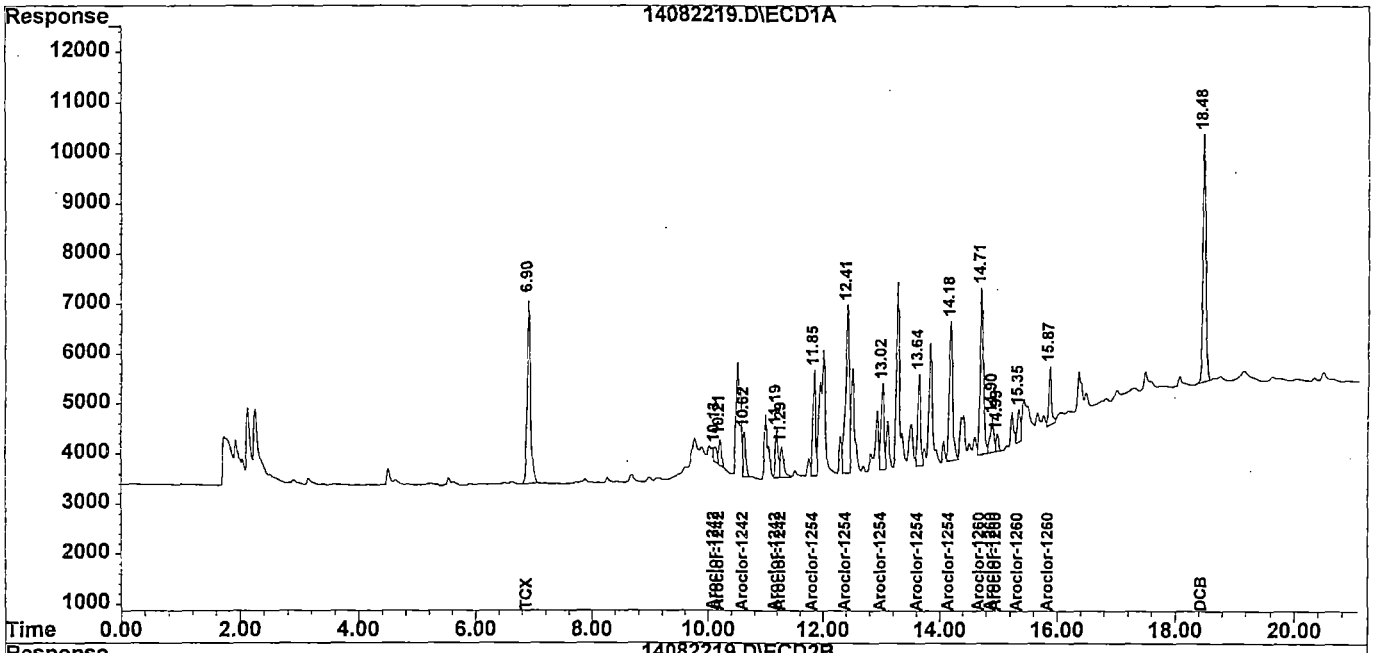
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	35	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	61	~~P~~ J
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	83	~~P~~ J
11096-82-5	Aroclor-1260	31	J
Surrogate amount spiked		7.14	

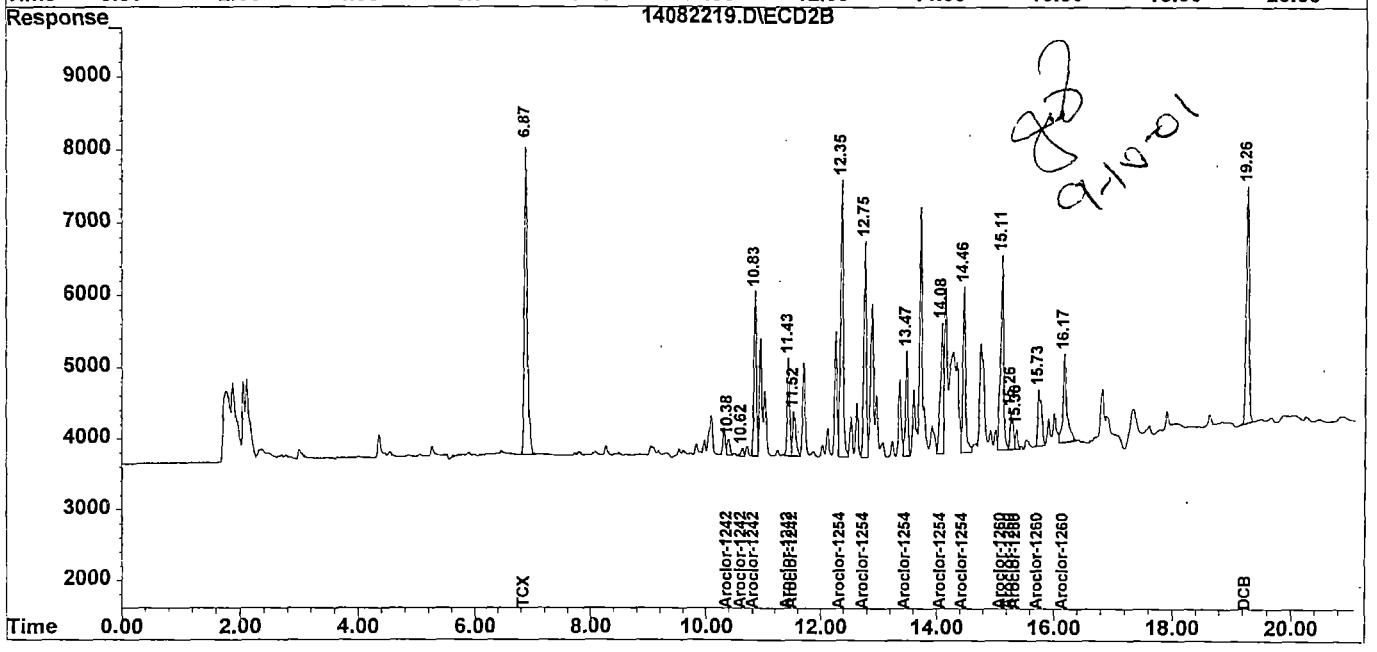
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082219.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082219.D\ECD2B.CH
Acq On : 22 Aug 2001 17:32 Operator: TLM
Sample : 47166.07 *E00Y7 * Inst : HP_14
Misc : *EPA*30.1G/5.0ML*7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 17:09 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082219.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082219.D\ECD2B.CH
Acq On : 22 Aug 2001 17:32 Operator: TLM
Sample : 47166.07 *E00Y7 * Inst : HP_14
Misc : *EPA*30.1G/5.0ML*7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 17:09 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

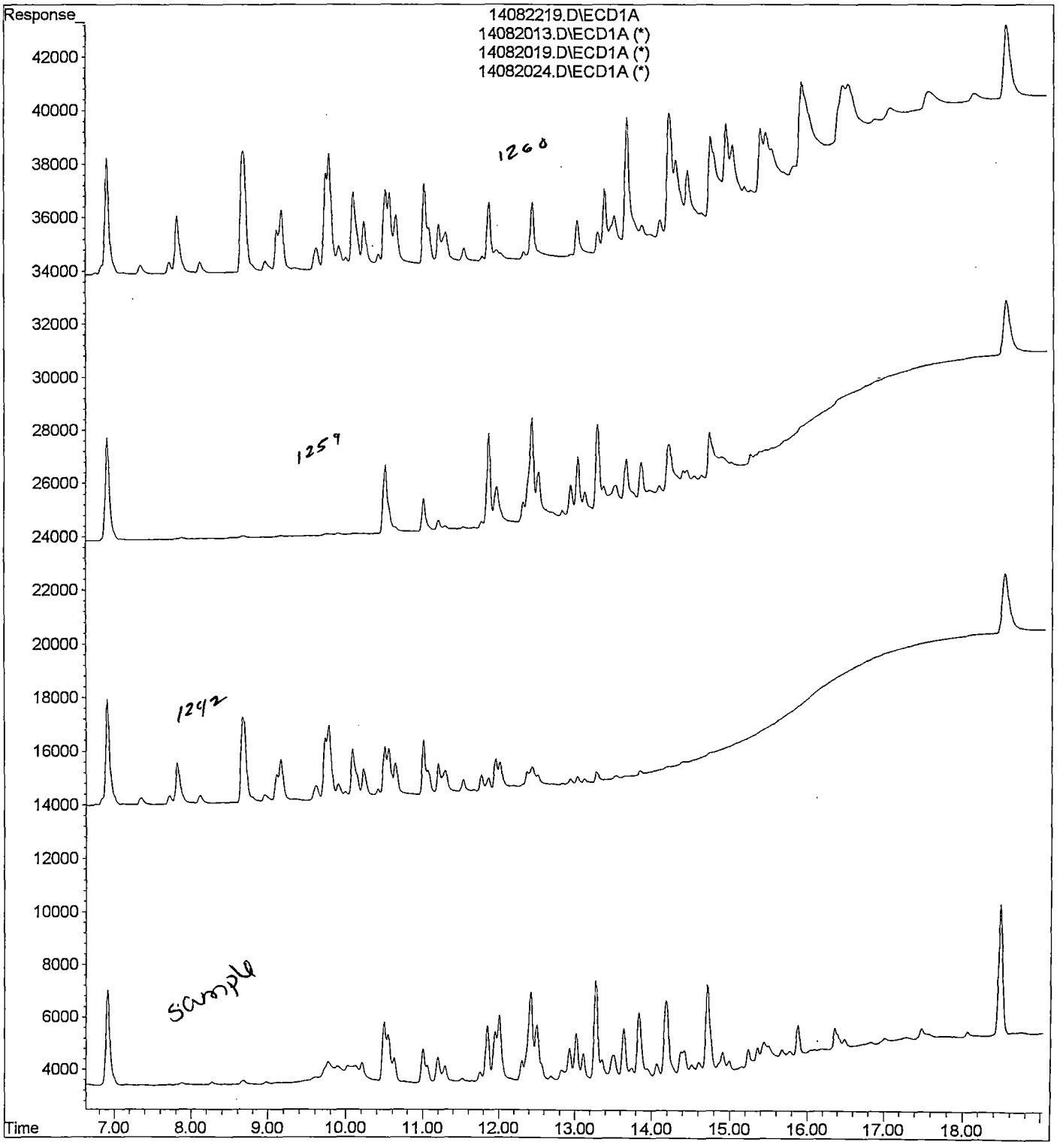
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	6.91	6.87	140957	151354	4.895	5.751	
	Spiked Amount 7.145			Recovery	=	68.51%	80.49%	
22)	S DCB	18.48	19.27	179672	115943	6.371	6.411	
	Spiked Amount 7.145			Recovery	=	89.17%	89.73%	
	Target Compounds:							
7)	L4 Aroclor-1242	10.12f	10.38	12412	8049	17.1m	14.6	
8)	L4 Aroclor-1242 {2}	10.21	10.62	17264	3244	43.4m	11.5m	#
9)	L4 Aroclor-1242 {3}	10.62	10.83	30779	67992	68.3	182.6	#
10)	L4 Aroclor-1242 {4}	11.20	11.43	35310	41646	111.5	97.9	
11)	L4 Aroclor-1242 {5}	11.29	11.53	25572	24106	63.2	95.1	#
	Sum Aroclor-1242			121337	145038	303.5	401.8	
	Average Aroclor-1242					60.697	80.351	
12)	L6 Aroclor-1254	11.85	12.35	71610	124437	65.4	134.4	#
13)	L6 Aroclor-1254 {2}	12.42	12.75	149626	89724	90.2	99.9	
14)	L6 Aroclor-1254 {3}	13.02	13.48	60489	44219	73.8	72.9	
15)	L6 Aroclor-1254 {4}	13.64	14.08	61032	62319	81.1	111.5	#
16)	L6 Aroclor-1254 {5}	14.18	14.46	120461	72704	102.2	111.5	
	Sum Aroclor-1254			463217	393403	412.8	530.1	
	Average Aroclor-1254					82.555	106.029	
17)	L7 Aroclor-1260	14.71	15.11	134078	98692	72.3	64.5	
18)	L7 Aroclor-1260 {2}	14.91	15.27	29997	19544	27.4	22.6	
19)	L7 Aroclor-1260 {3}	14.99	15.36	10215	7692	11.3	13.0	
20)	L7 Aroclor-1260 {4}	15.35	15.74f	22234	34814	27.6	40.7	#
21)	L7 Aroclor-1260 {5}	15.88	16.17	37918	58120	15.1	36.0	#
	Sum Aroclor-1260			234441	218861	54.9	63.2	
	Average Aroclor-1260					30.743	35.356	

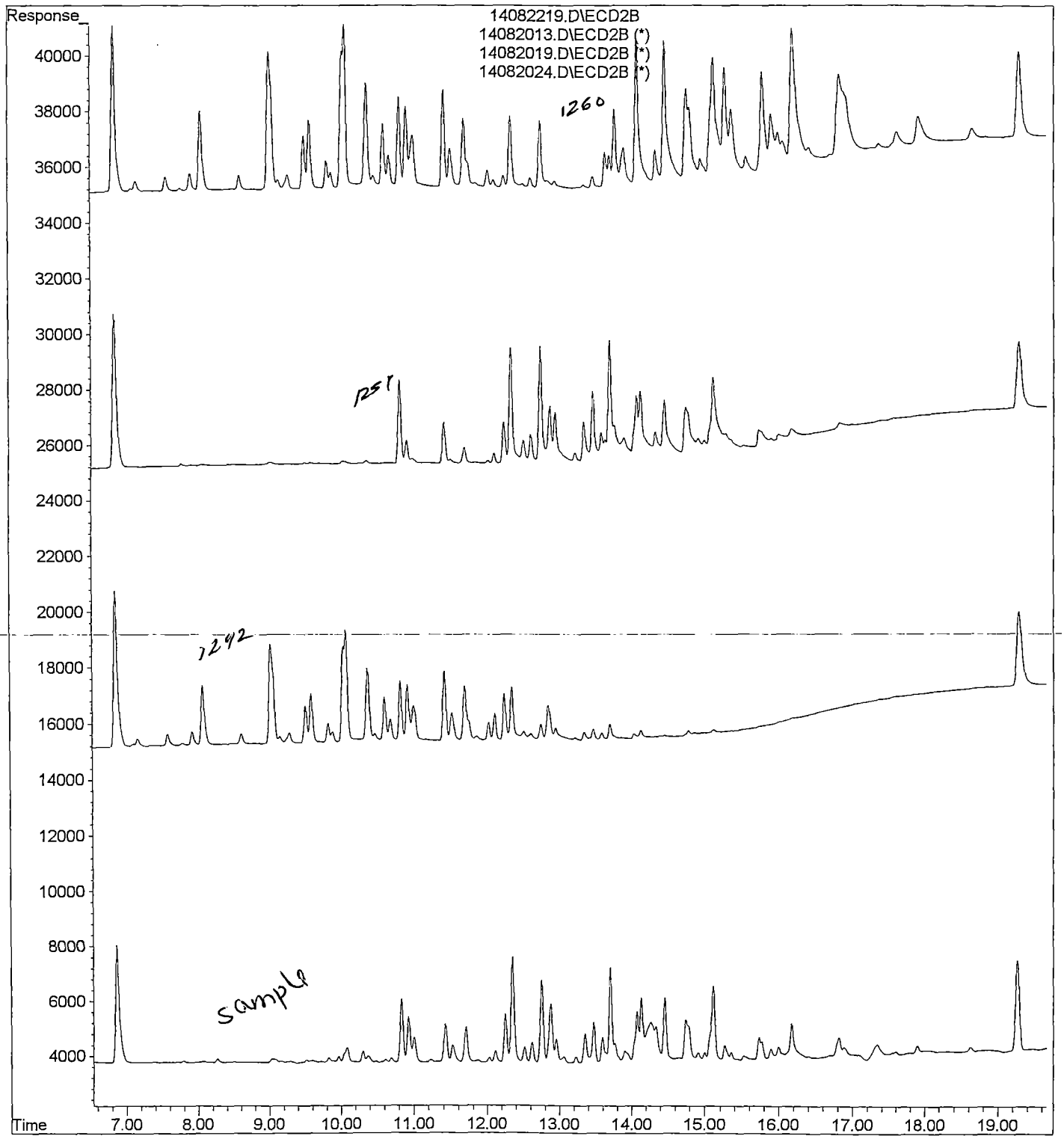
JM 9-7-01

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

File : F:\HPCHEM\HP\14\DATA\08_22_01\14082219.D
Operator : TLM
Acquired : 22 Aug 2001 17:32 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.07 *E00Y7 *
Misc Info : *EPA*30.1G/5.0ML*7
Vial Number: 19

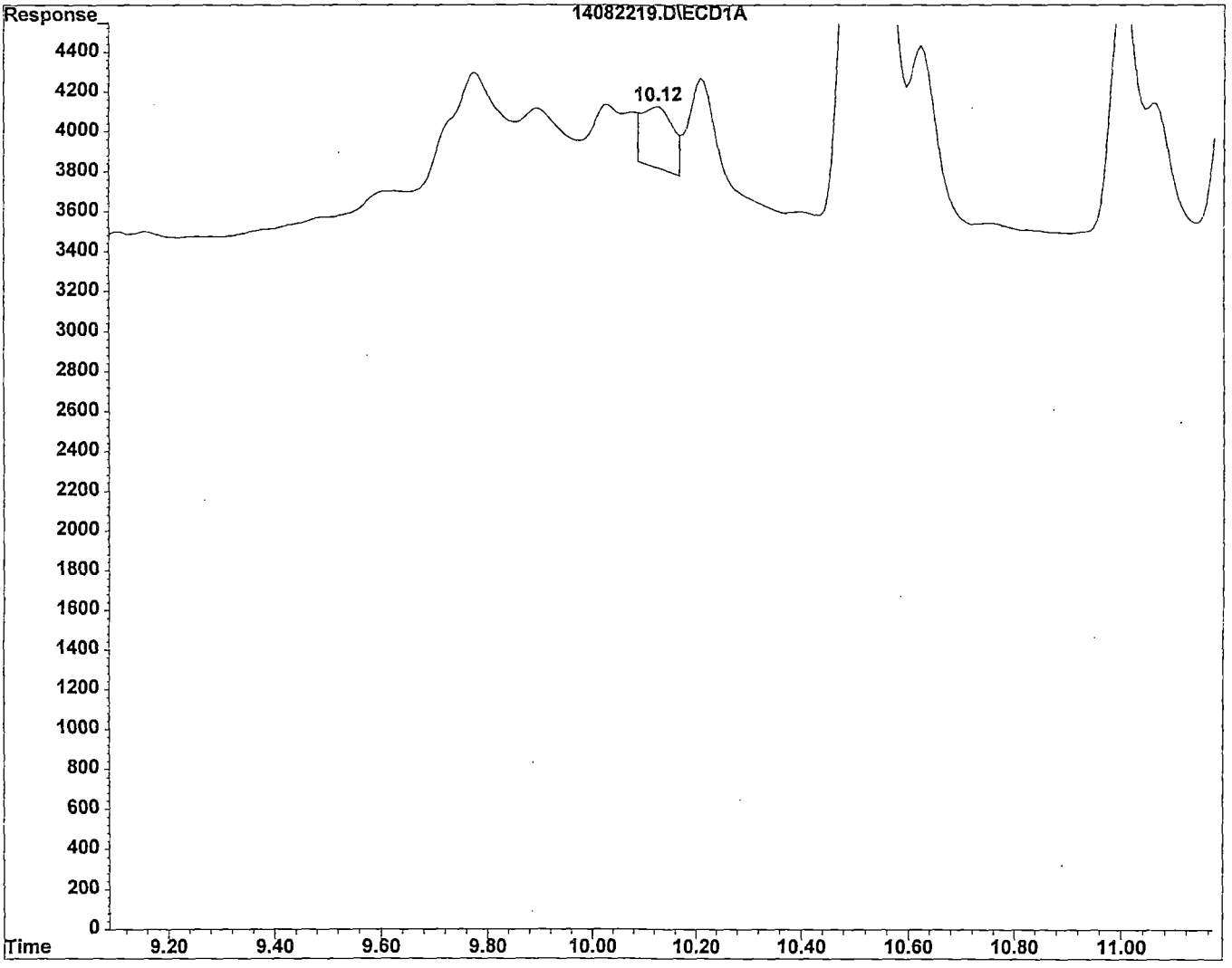


File : F:\HPCHEM\HP\14\DATA\08_22_01\14082219.D
Operator : TLM
Acquired : 22 Aug 2001 17:32 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.07 *E00Y7 *
Misc Info : *EPA*30.1G/5.0ML*7
Vial Number: 19



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082219.D
Date Acquired: 22 Aug 2001 17:32
Inst: HP_14 Operator ID: TLM
Name: 47166.07 *E00Y7 *
Misc: *EPA*30.1G/5.0ML*7
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:09 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 10.12min area: 12412 m

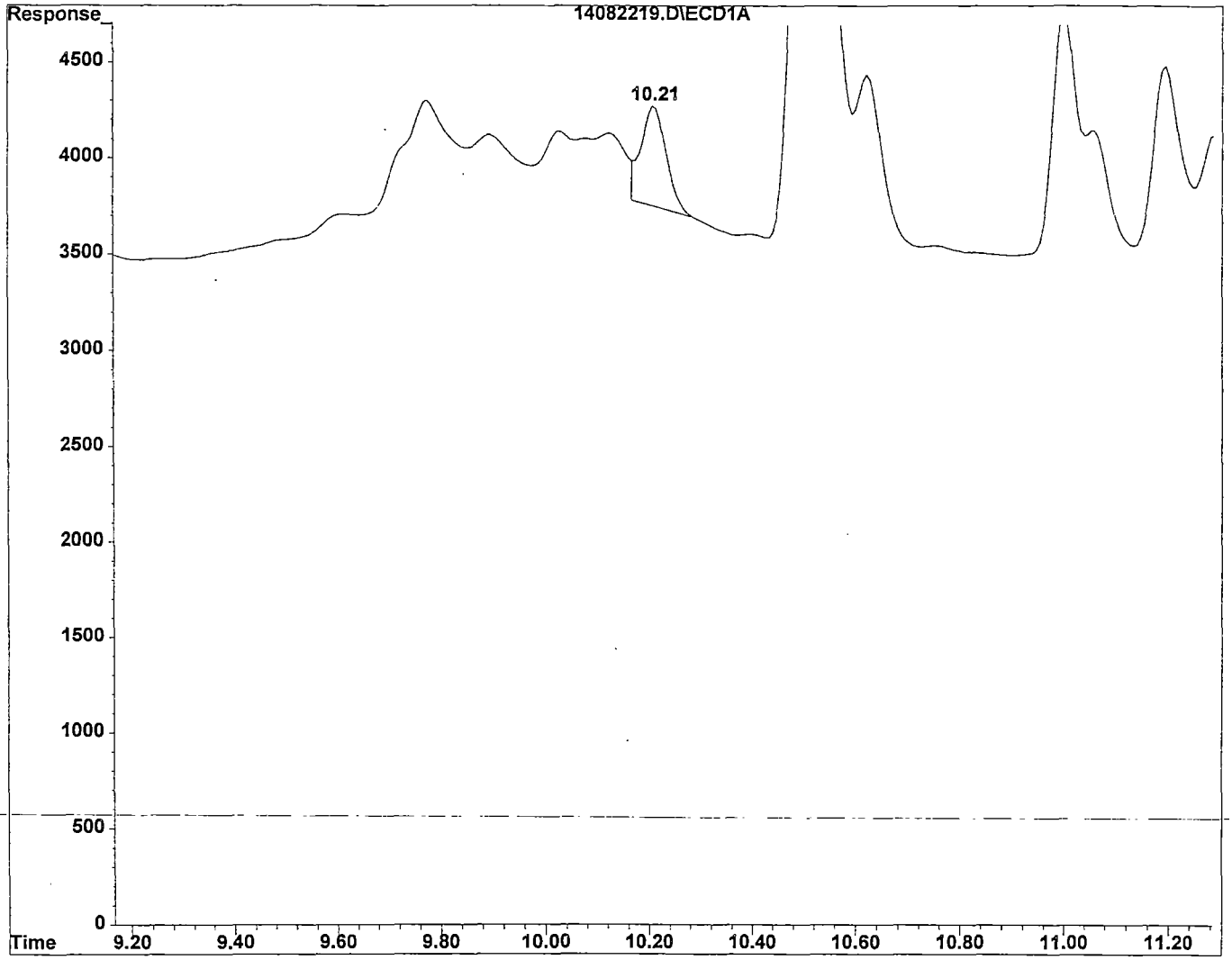
Integration Time Range: 10.09 - 10.17

JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082219.D
Report generated: Fri Sep 07 09:35:11 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082219.D
Date Acquired: 22 Aug 2001 17:32
Inst: HP_14 Operator ID: TLM
Name: 47166.07 *E00Y7 *
Misc: *EPA*30.1G/5.0ML*7
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:09 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {2} 10.21min area: 17264 m

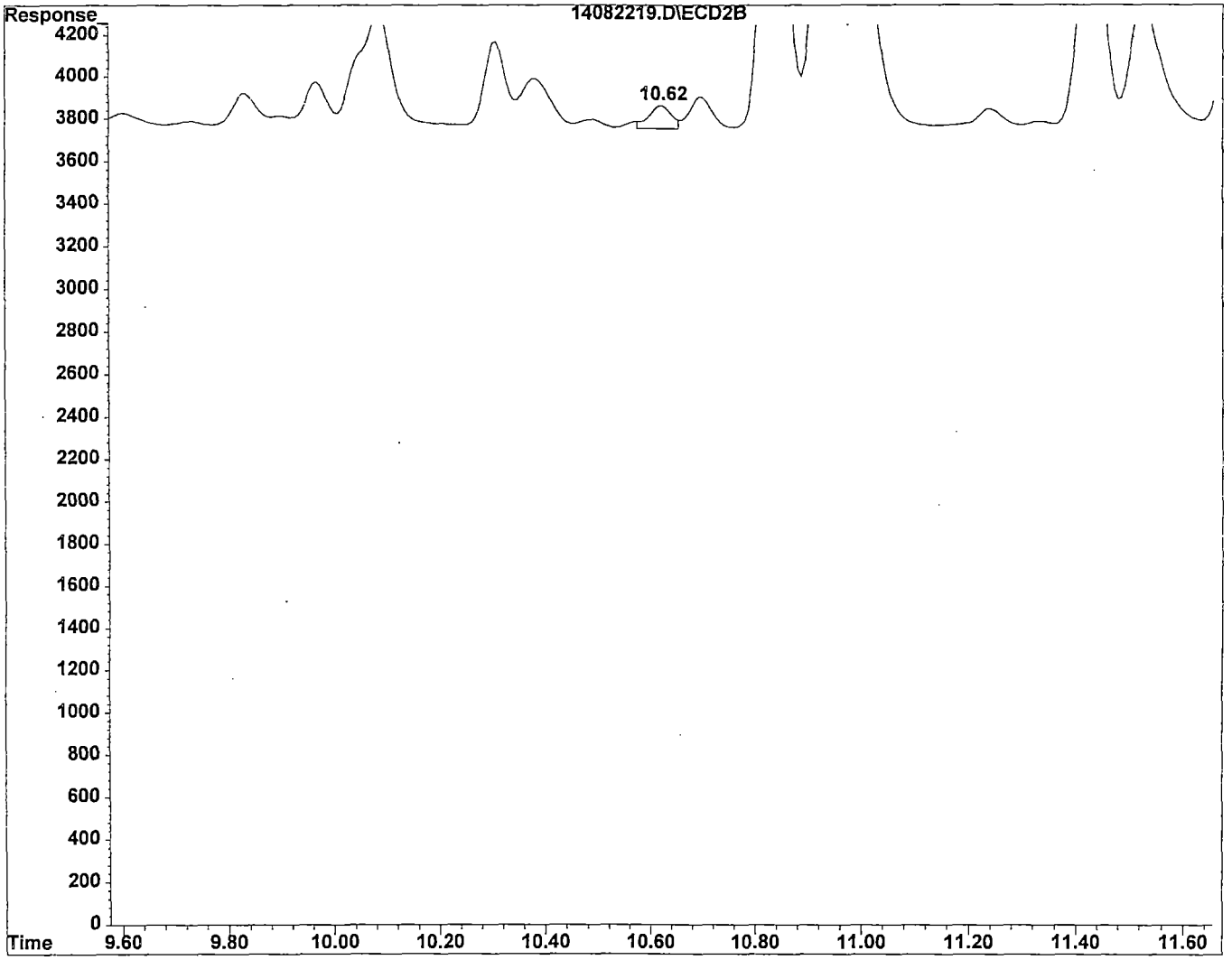
Integration Time Range: 10.17 - 10.28

9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082219.D
Report generated: Fri Sep 07 09:35:11 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082219.D
Date Acquired: 22 Aug 2001 17:32
Inst: HP_14 Operator ID: TLM
Name: 47166.07 *E00Y7 *
Misc: *EPA*30.1G/5.0ML*7
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:09 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {2} #2 10.62min area: 3244 m

Integration Time Range: 10.58 - 10.66

JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082219.D
Report generated: Fri Sep 07 09:35:13 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Y8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.08

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

% Moisture: 19 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

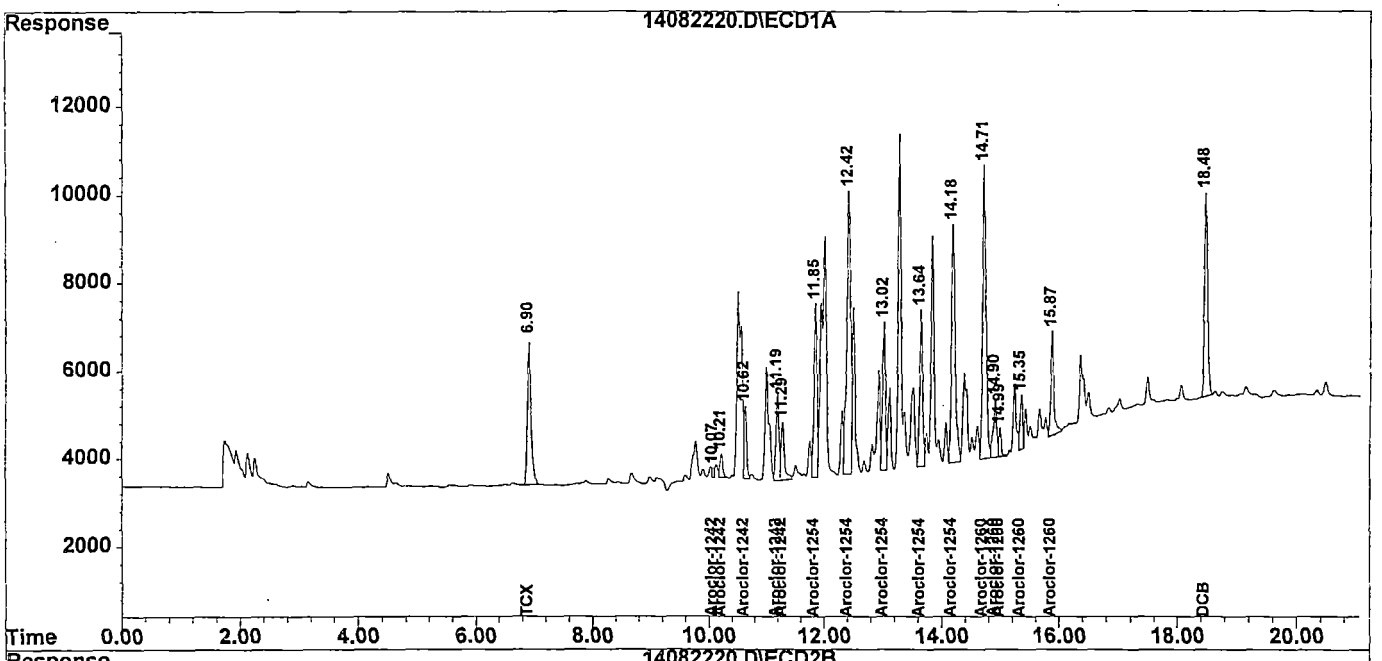
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	120	~~P~~ J
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	190	
11096-82-5	Aroclor-1260	62	
	Surrogate amount spiked	8.18	

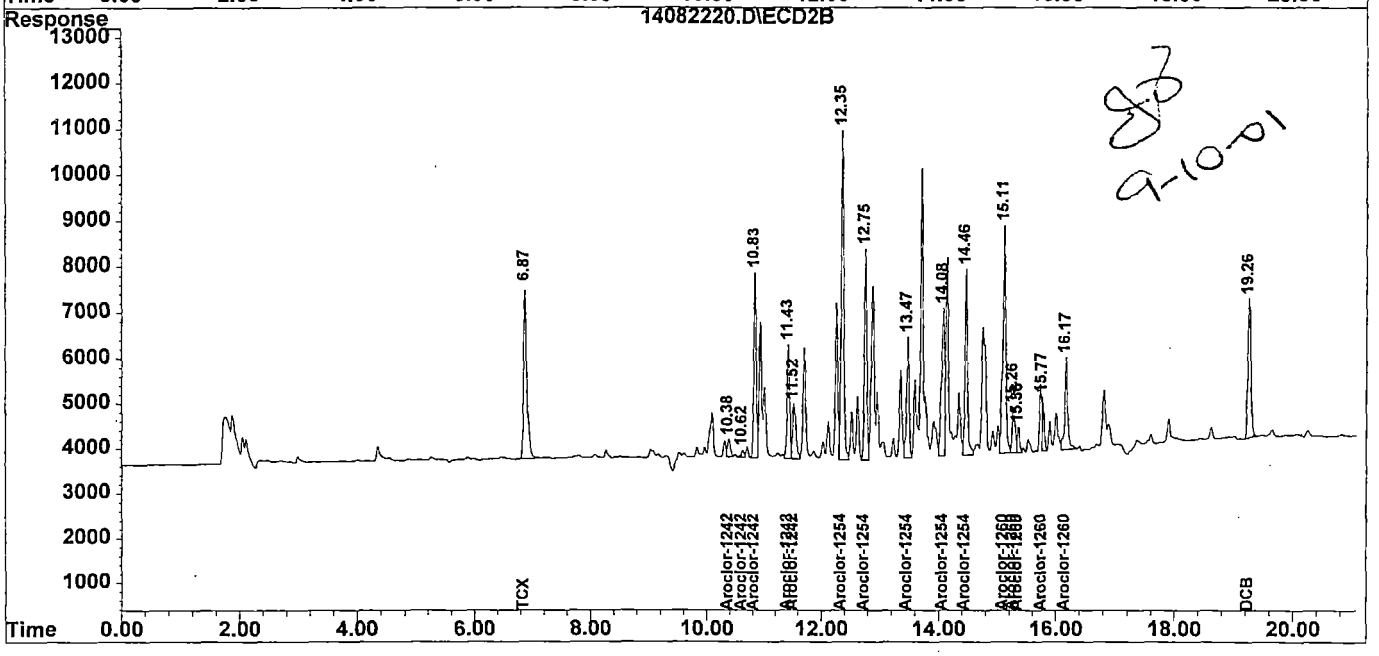
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082220.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082220.D\ECD2B.CH
Acq On : 22 Aug 2001 17:56 Operator: TLM
Sample : 47166.08 *E00Y8 * Inst : HP_14
Misc : *EPA*30.2G/5.0ML*19 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 17:11 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





8-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082220.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082220.D\ECD2B.CH
Acq On : 22 Aug 2001 17:56 Operator: TLM
Sample : 47166.08 *E00Y8 * Inst : HP_14
Misc : *EPA*30.2G/5.0ML*19 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 17:11 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

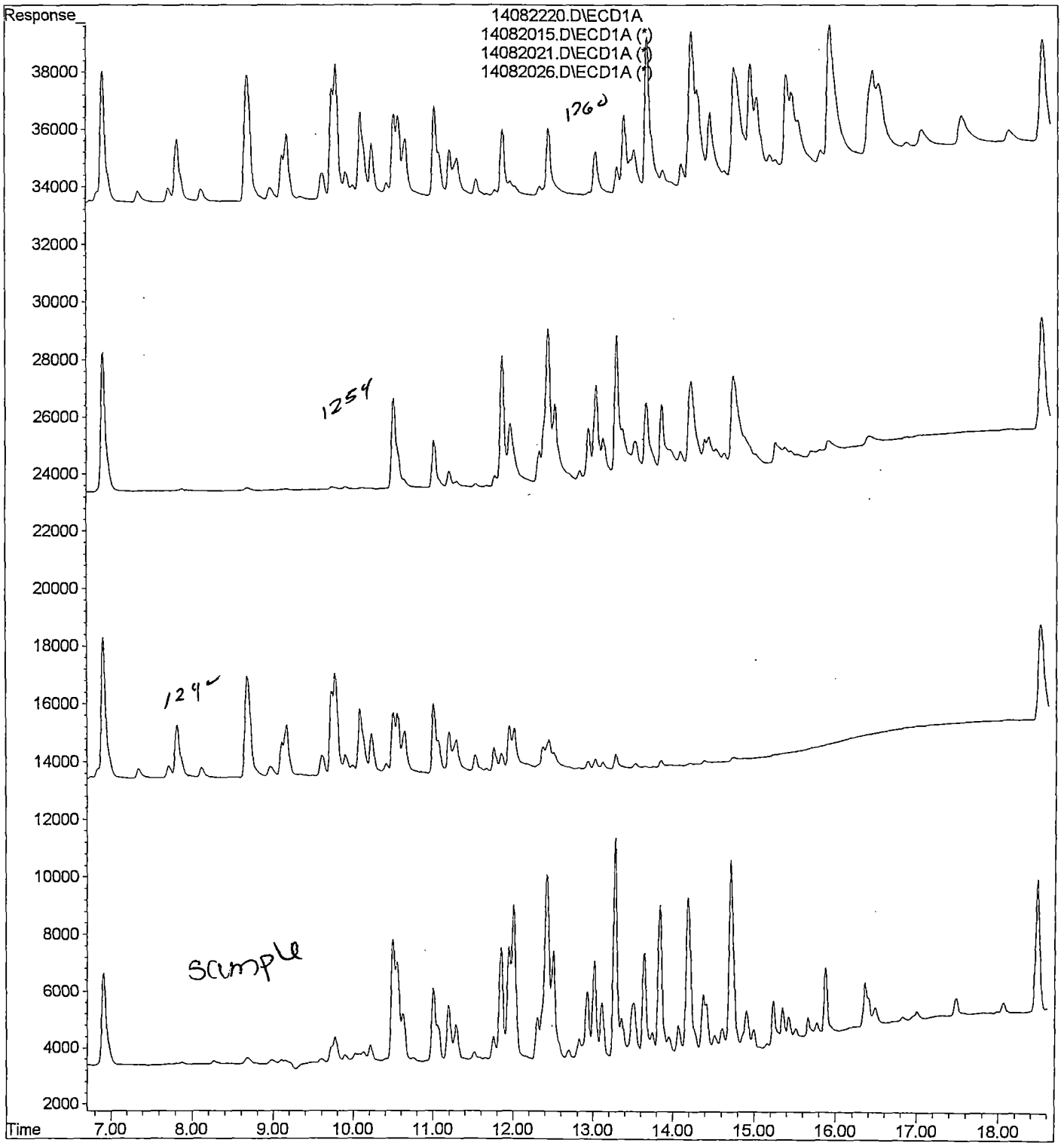
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	6.91	6.87	134377	145481	5.340	6.326	
	Spiked Amount 8.176			Recovery	=	65.31%	77.37%	
22)	S DCB	18.48	19.26	166905	112552	6.773	7.122	
	Spiked Amount 8.176			Recovery	=	82.84%	87.11%	
	Target Compounds:							
7)	L4 Aroclor-1242	10.07	10.38	5056	14434	7.963m	30.0	#
8)	L4 Aroclor-1242 {2}	10.21	10.62	18340	4920	52.7m	20.0	#
9)	L4 Aroclor-1242 {3}	10.62	10.84	52488	122361	133.3m	376.0	#
10)	L4 Aroclor-1242 {4}	11.20	11.43	73048	78613	263.9	211.5	
11)	L4 Aroclor-1242 {5}	11.29	11.53	57410	49646	162.4	224.2	#
	Sum Aroclor-1242			206342	269975	620.4	861.7	
	Average Aroclor-1242					124.074	172.340	
12)	L6 Aroclor-1254	11.85	12.35	135554	228416	141.7	282.2	#
13)	L6 Aroclor-1254 {2}	12.42	12.75	293804	134845	202.7	171.7	
14)	L6 Aroclor-1254 {3}	13.02	13.48	114302	81496	159.6	153.8	
15)	L6 Aroclor-1254 {4}	13.64	14.08	120766	115540	183.7	236.5	#
16)	L6 Aroclor-1254 {5}	14.18	14.46	242692	124294	235.6	218.2	
	Sum Aroclor-1254			907118	684591	923.4	1062.5	
	Average Aroclor-1254					184.674	212.494	
17)	L7 Aroclor-1260	14.71	15.11	261811	184421	161.5	138.0	
18)	L7 Aroclor-1260 {2}	14.91	15.27	57251	37084	59.8	49.1	
19)	L7 Aroclor-1260 {3}	14.99	15.36	20092	15968	25.5	31.0	
20)	L7 Aroclor-1260 {4}	15.35	15.77	39657	30787	56.3	41.2	#
21)	L7 Aroclor-1260 {5}	15.87	16.17	80998	73718	37.0	52.2	#
	Sum Aroclor-1260			459809	341978	139.0	127.3	
	Average Aroclor-1260					68.026	62.271	

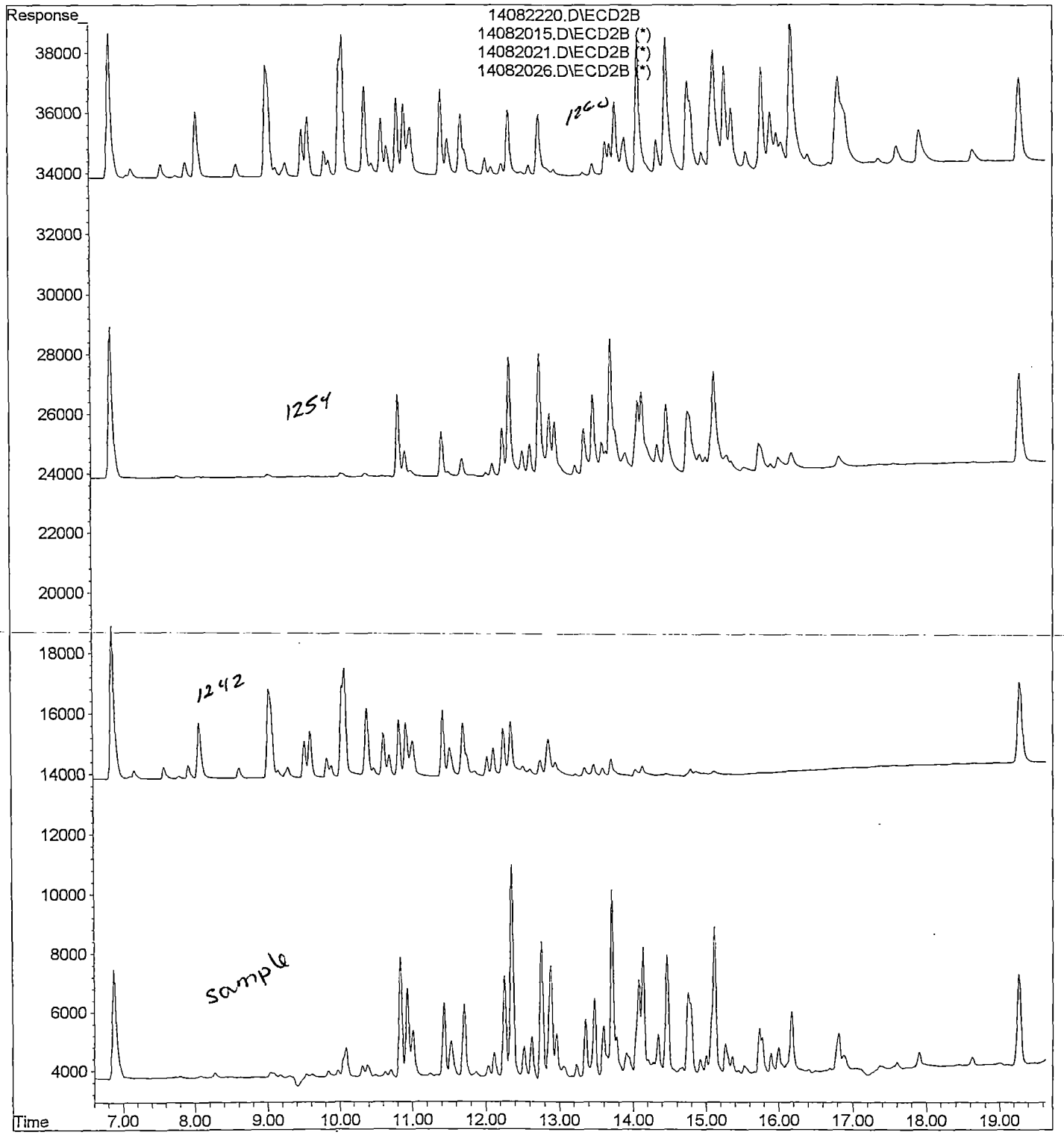
JM 9-7-01

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

File : F:\HPCHEM\HP\14\DATA\08_22_01\14082220.D
Operator : TLM
Acquired : 22 Aug 2001 17:56 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.08 *E00Y8 *
Misc Info : *EPA*30.2G/5.0ML*19
Vial Number: 20

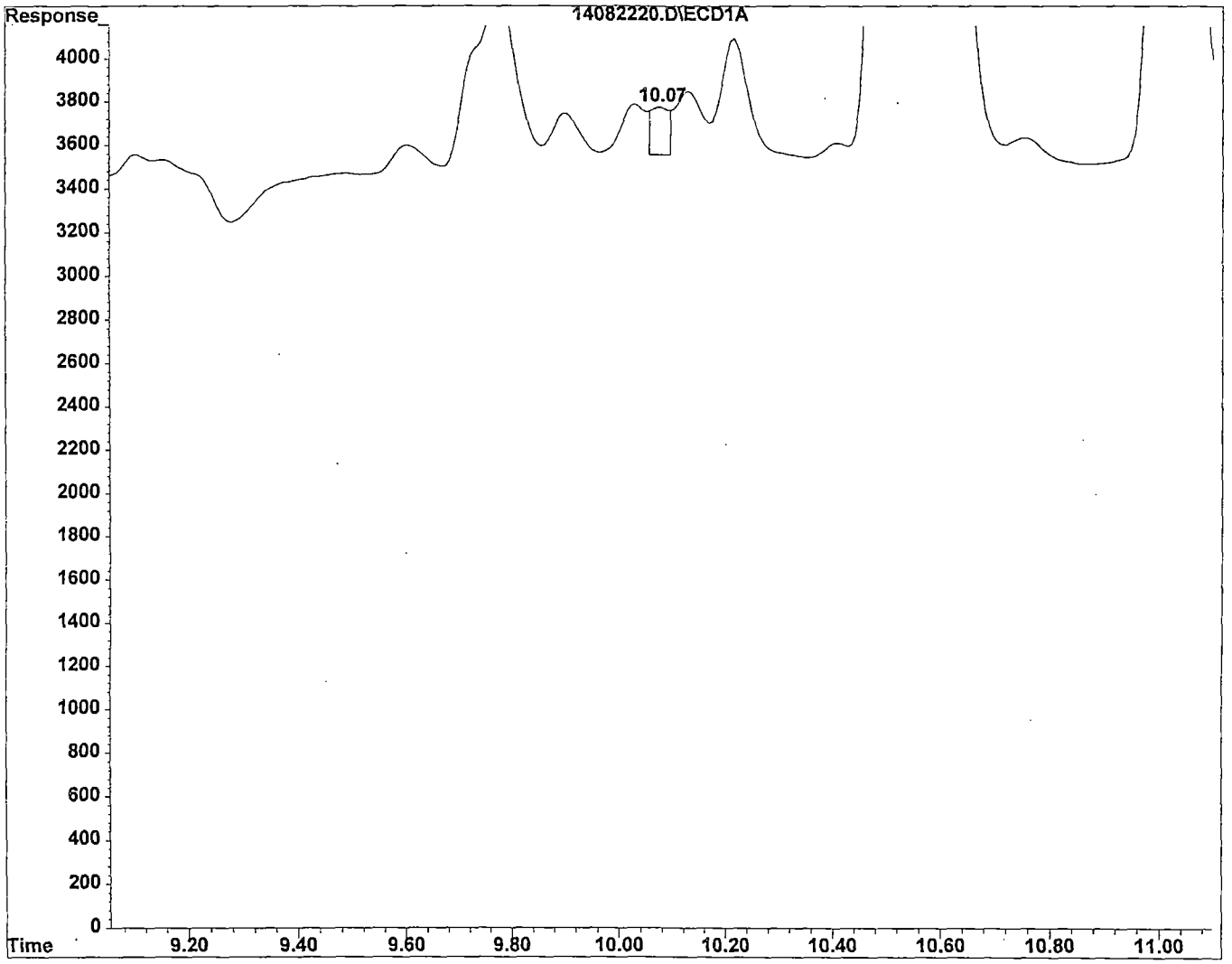


File : F:\HPCHEM\HP\14\DATA\08_22_01\14082220.D
Operator : TLM
Acquired : 22 Aug 2001 17:56 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.08 *E00Y8 *
Misc Info : *EPA*30.2G/5.0ML*19
Vial Number: 20



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082220.D
Date Acquired: 22 Aug 2001 17:56
Inst: HP_14 Operator ID: TLM
Name: 47166.08 *E00Y8 *
Misc: *EPA*30.2G/5.0ML*19
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:11 2001 Quant Results File: XPCBH20.RES



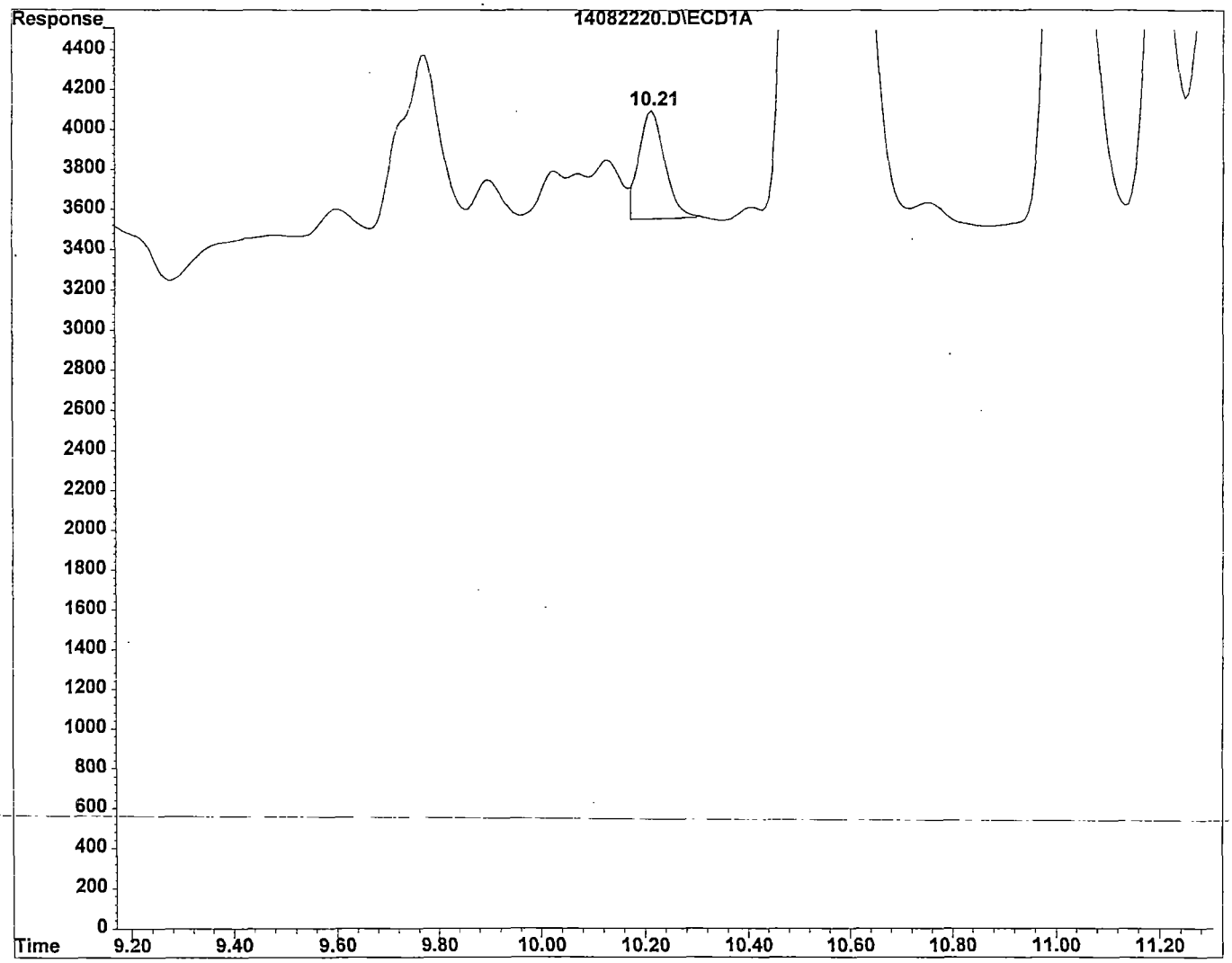
Aroclor-1242 10.07min area: 5056 m

Integration Time Range: 10.05 - 10.10 JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082220.D
Report generated: Fri Sep 07 09:35:14 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082220.D
Date Acquired: 22 Aug 2001 17:56
Inst: HP_14 Operator ID: TLM
Name: 47166.08 *E00Y8 *
Misc: *EPA*30.2G/5.0ML*19
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:11 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {2} 10.21min area: 18340 m

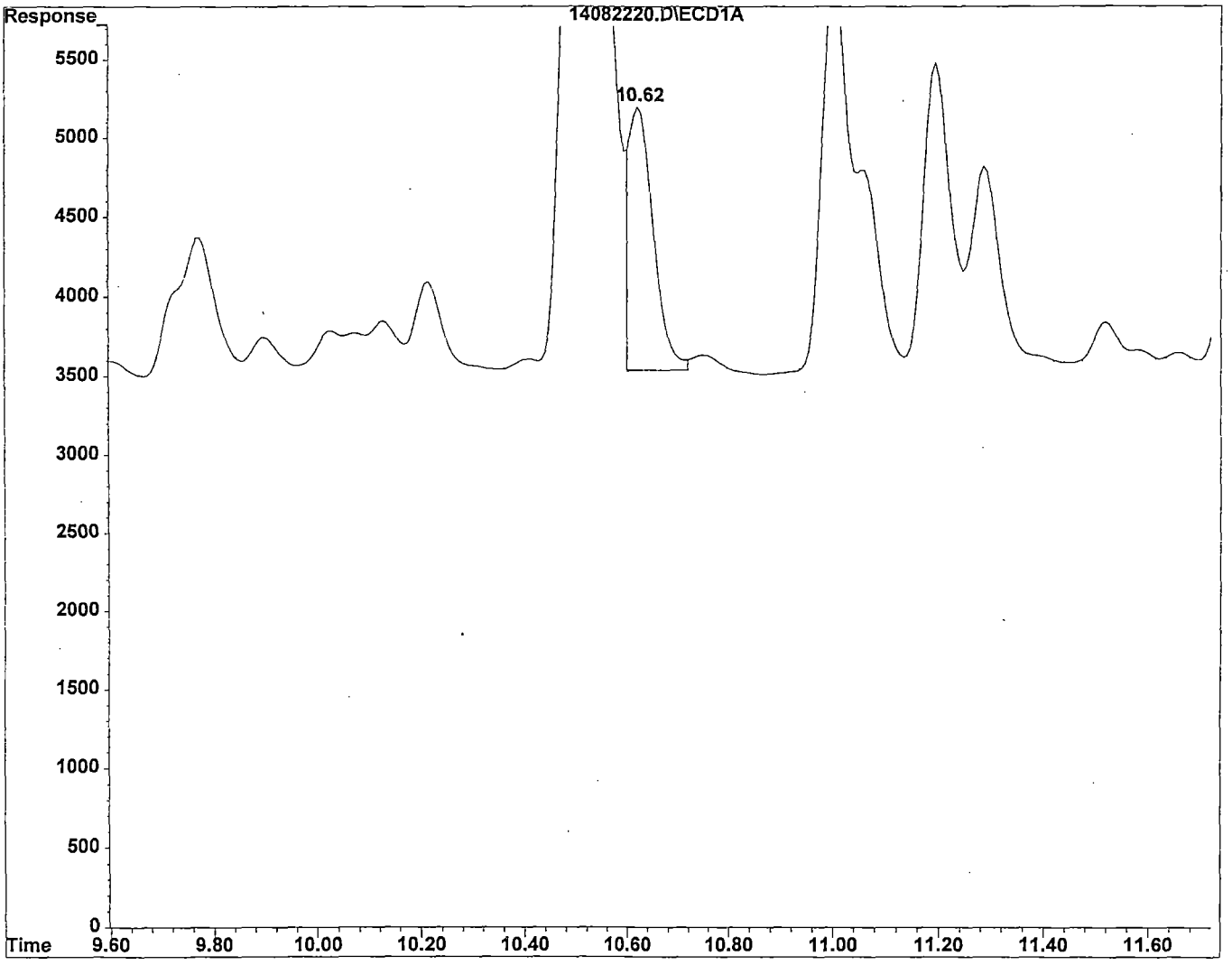
Integration Time Range: 10.17 - 10.30

TM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082220.D
Report generated: Fri Sep 07 09:35:15 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082220.D
Date Acquired: 22 Aug 2001 17:56
Inst: HP_14 Operator ID: TLM
Name: 47166.08 *E00Y8 *
Misc: *EPA*30.2G/5.0ML*19
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:11 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {3} 10.62min area: 52488 m

Integration Time Range: 10.60 - 10.72

9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082220.D
Report generated: Fri Sep 07 09:35:16 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Y9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.09

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

% Moisture: 18 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

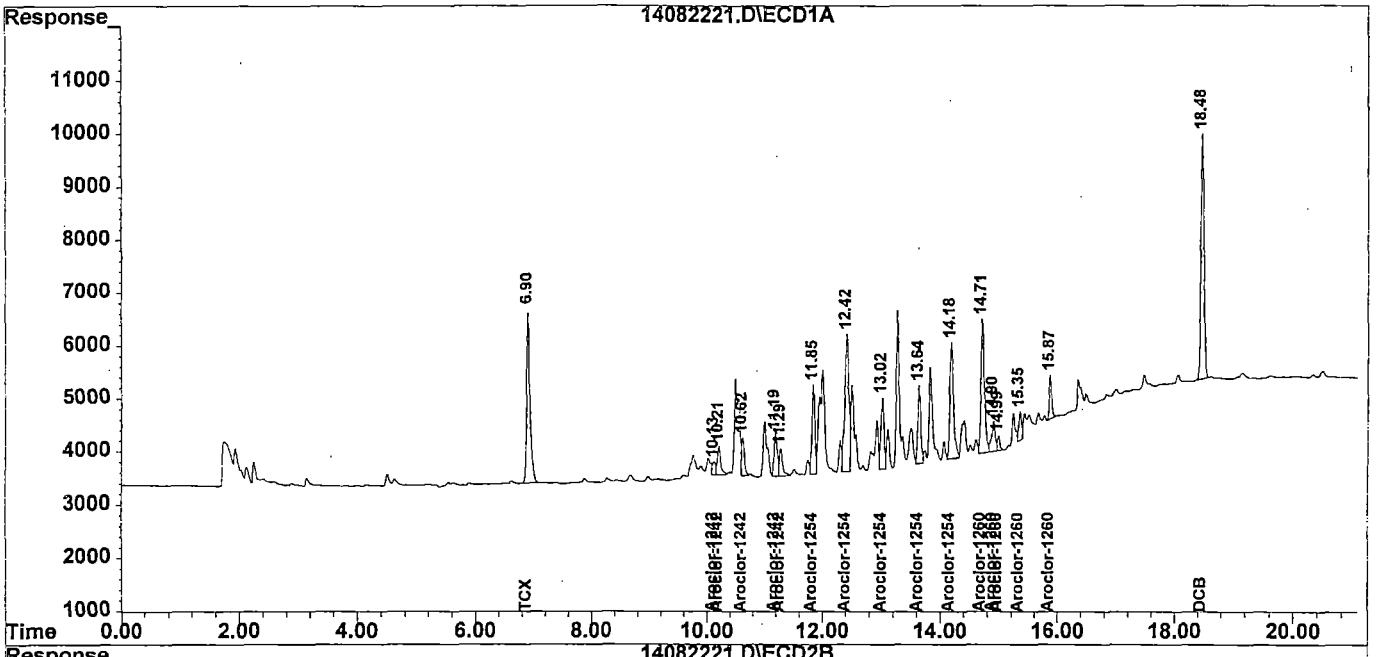
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	62	
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	75	
11096-82-5	Aroclor-1260	26	J
Surrogate amount spiked		8.10	

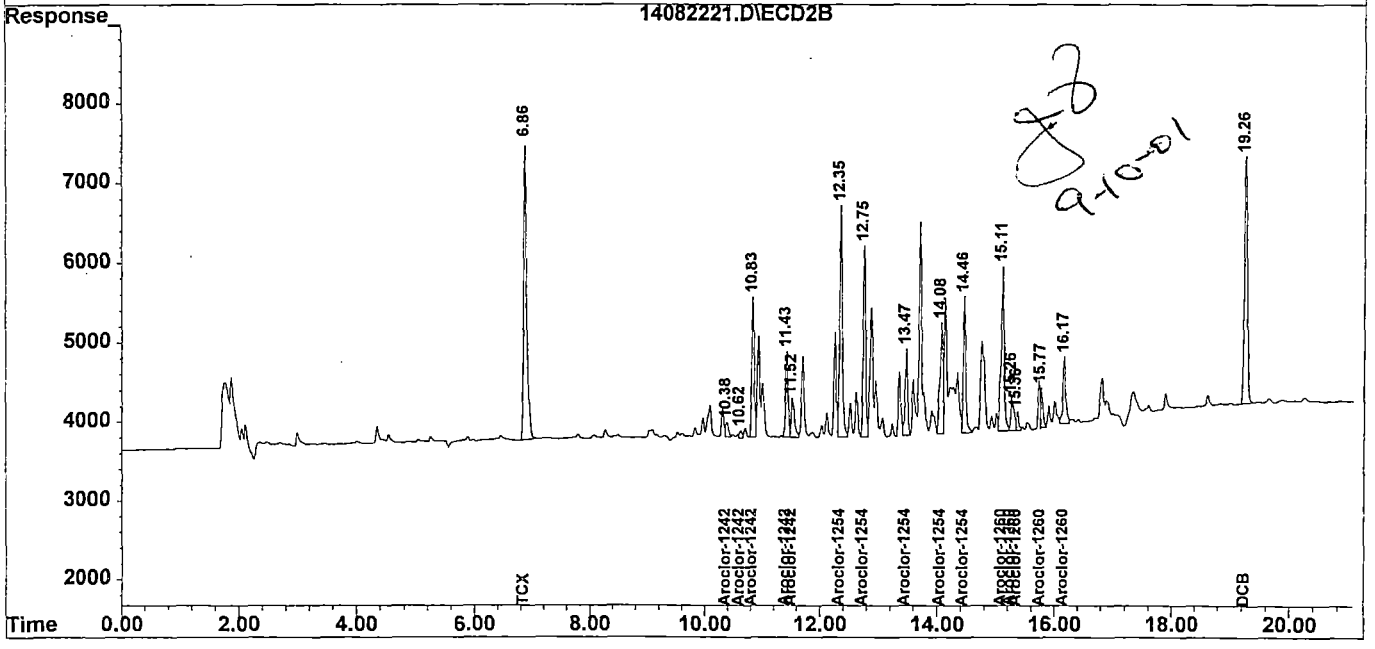
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082221.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082221.D\ECD2B.CH
Acq On : 22 Aug 2001 18:21 Operator: TLM
Sample : 47166.09 *E00Y9 * Inst : HP_14
Misc : *EPA*30.1G/5.0ML*18 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 17:14 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082221.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082221.D\ECD2B.CH
Acq On : 22 Aug 2001 18:21 Operator: TLM
Sample : 47166.09 *E00Y9 * Inst : HP_14
Misc : *EPA*30.1G/5.0ML*18 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 17:14 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

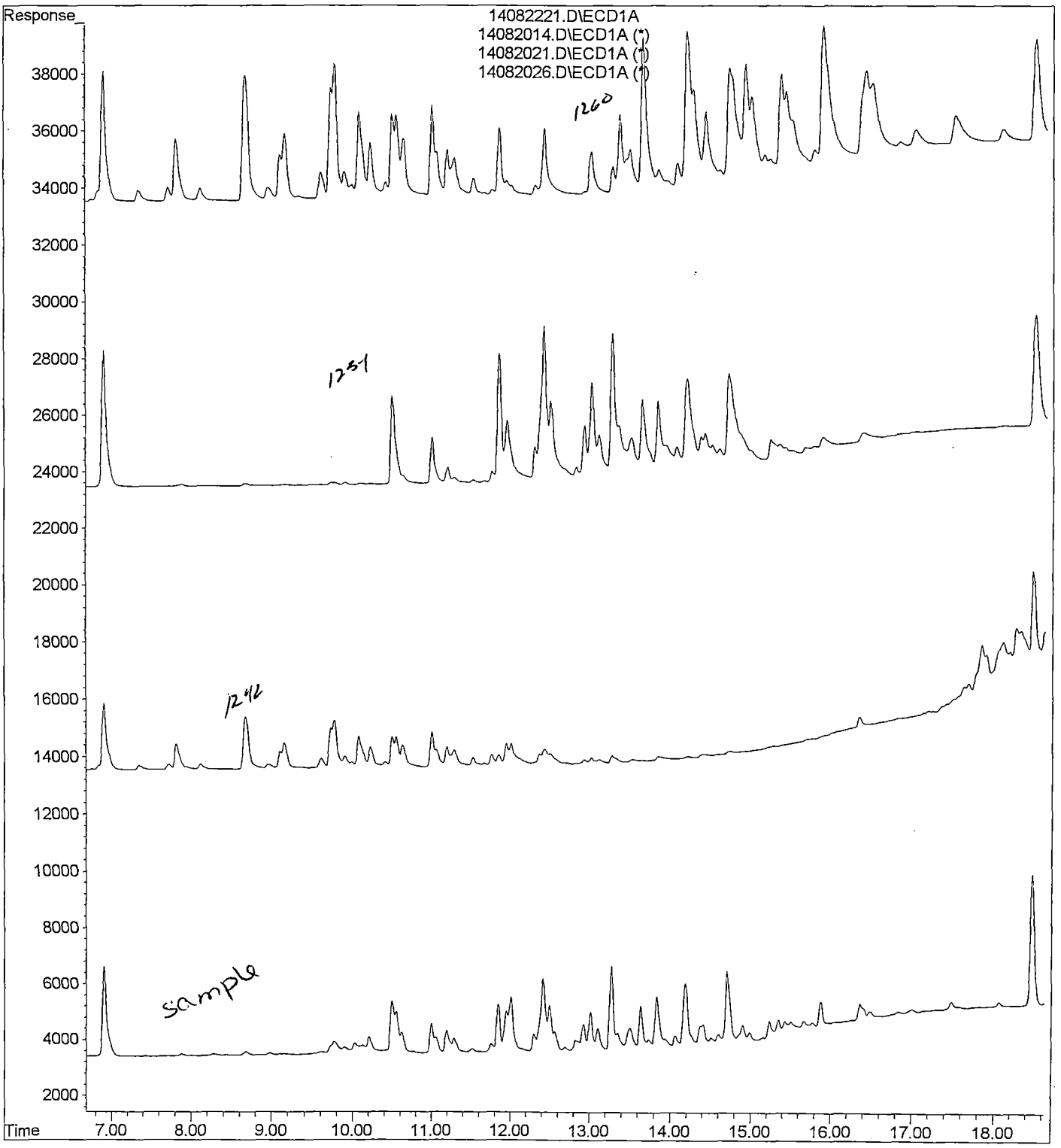
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	6.91	6.87	127802	133890	5.033	5.770	
	Spiked Amount 8.103			Recovery	=	62.11%	71.21%	
22)	S DCB	18.48	19.27	168588	109835	6.780	6.888	
	Spiked Amount 8.103			Recovery	=	83.67%	85.00%	
	Target Compounds:							
7)	L4 Aroclor-1242	10.13f	10.38	7840	6882	12.2m	14.2	
8)	L4 Aroclor-1242 {2}	10.21	10.62	21620	2820	61.6m	11.3m	#
9)	L4 Aroclor-1242 {3}	10.62	10.83	25396	52258	63.9m	159.2	#
10)	L4 Aroclor-1242 {4}	11.20	11.43	30921	33628	110.7	89.7	
11)	L4 Aroclor-1242 {5}	11.29	11.53	21340	19457	59.8	87.1	#
	Sum Aroclor-1242			107116	115044	308.3	361.4	
	Average Aroclor-1242					61.666	72.286	
12)	L6 Aroclor-1254	11.85	12.35	57555	94838	59.6	116.1	#
13)	L6 Aroclor-1254 {2}	12.42	12.75	117560	71594	80.4	90.4	
14)	L6 Aroclor-1254 {3}	13.02	13.48	47445	32856	65.7	61.5	
15)	L6 Aroclor-1254 {4}	13.64	14.08	49025	48167	73.9	97.7	#
16)	L6 Aroclor-1254 {5}	14.18	14.46	96960	52507	93.3	91.4	
	Sum Aroclor-1254			368545	299961	372.9	457.0	
	Average Aroclor-1254					74.579	91.406	
17)	L7 Aroclor-1260	14.71	15.11	105433	77136	64.5	57.2	
18)	L7 Aroclor-1260 {2}	14.91	15.27	24905	15242	25.8	20.0	
19)	L7 Aroclor-1260 {3}	14.99	15.36	9104	6573	11.4	12.6	
20)	L7 Aroclor-1260 {4}	15.35	15.77	19328	13128	27.2m	17.4	#
21)	L7 Aroclor-1260 {5}	15.87	16.17	23016	28900	10.4m	20.3m	#
	Sum Aroclor-1260			181786	140979	56.4	51.7	
	Average Aroclor-1260					27.863	25.497	

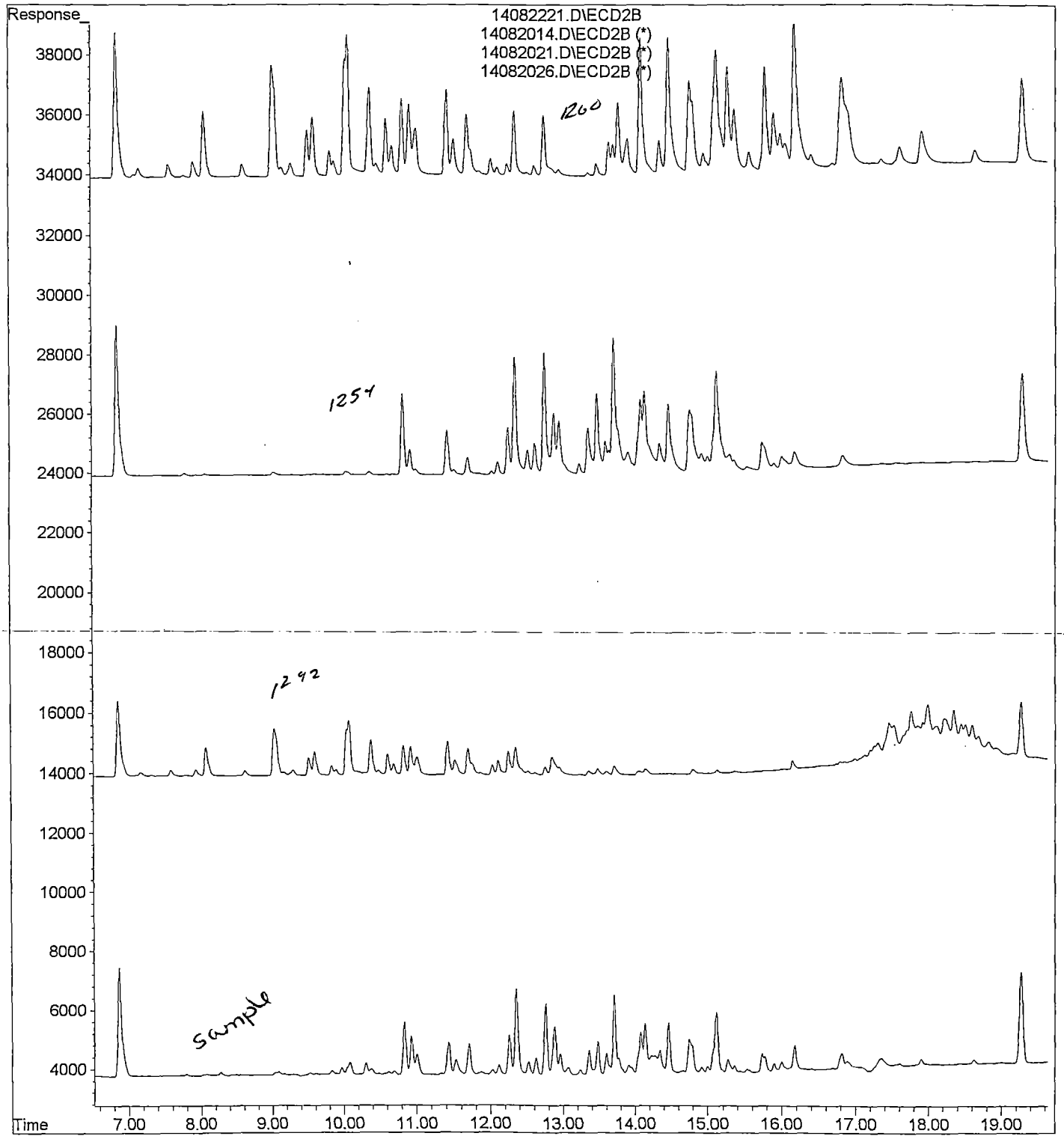
JM 9-7-01

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

File : F:\HPCHEM\HP\14\DATA\08_22_01\14082221.D
Operator : TLM
Acquired : 22 Aug 2001 18:21 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.09 *E00Y9 *
Misc Info : *EPA*30.1G/5.0ML*18
Vial Number: 21

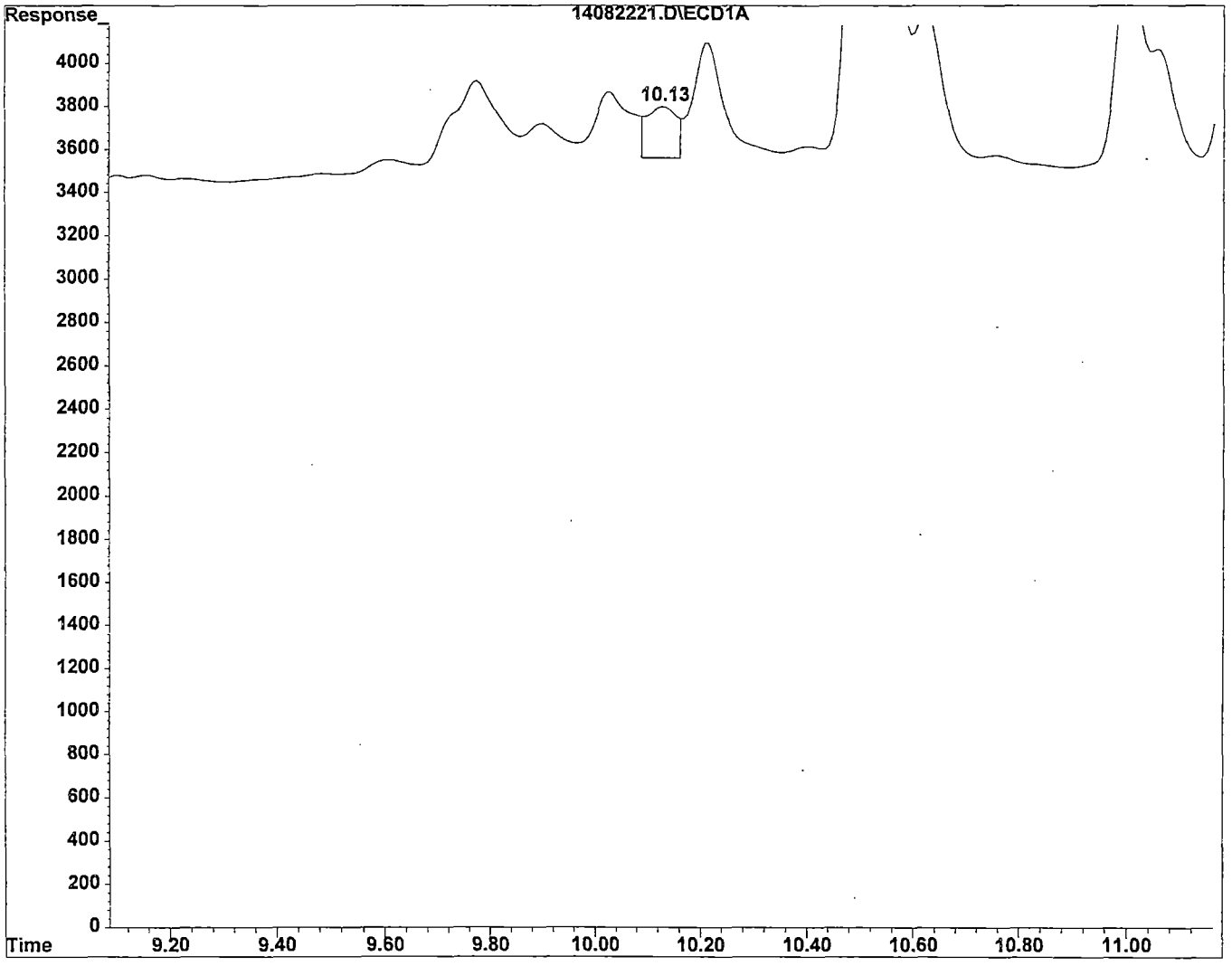


File : F:\HPCHEM\HP\14\DATA\08_22_01\14082221.D
Operator : TLM
Acquired : 22 Aug 2001 18:21 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.09 *E00Y9 *
Misc Info : *EPA*30.1G/5.0ML*18
Vial Number: 21



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082221.D
Date Acquired: 22 Aug 2001 18:21
Inst: HP_14 Operator ID: TLM
Name: 47166.09 *E00Y9 *
Misc: *EPA*30.1G/5.0ML*18
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:14 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 10.13min area: 7840 m

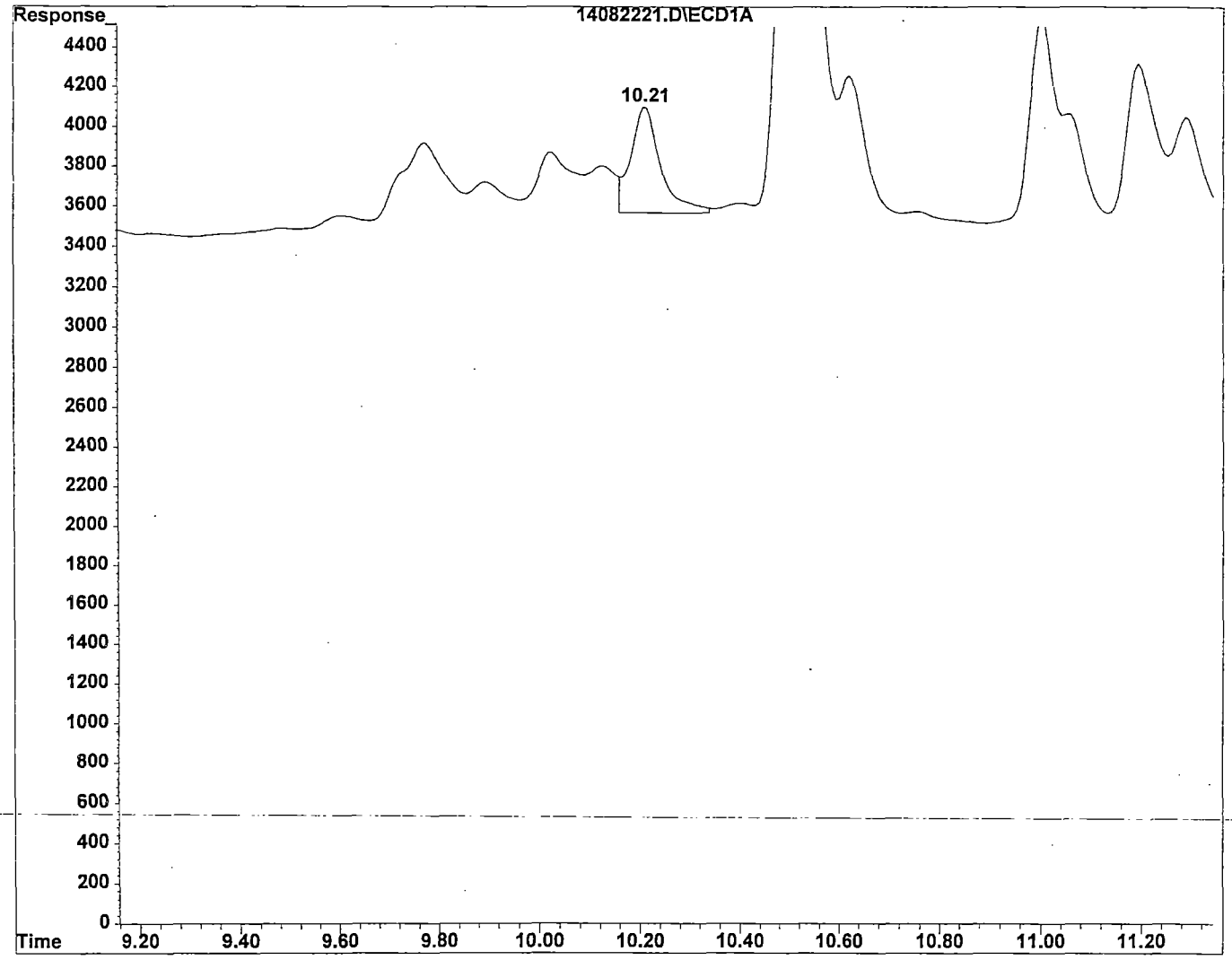
Integration Time Range: 10.09 - 10.16

3M
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082221.D
Report generated: Fri Sep 07 09:35:18 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082221.D
Date Acquired: 22 Aug 2001 18:21
Inst: HP_14 Operator ID: TLM
Name: 47166.09 *E00Y9 *
Misc: *EPA*30.1G/5.0ML*18
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:14 2001 Quant Results File: XPCBH20.RES



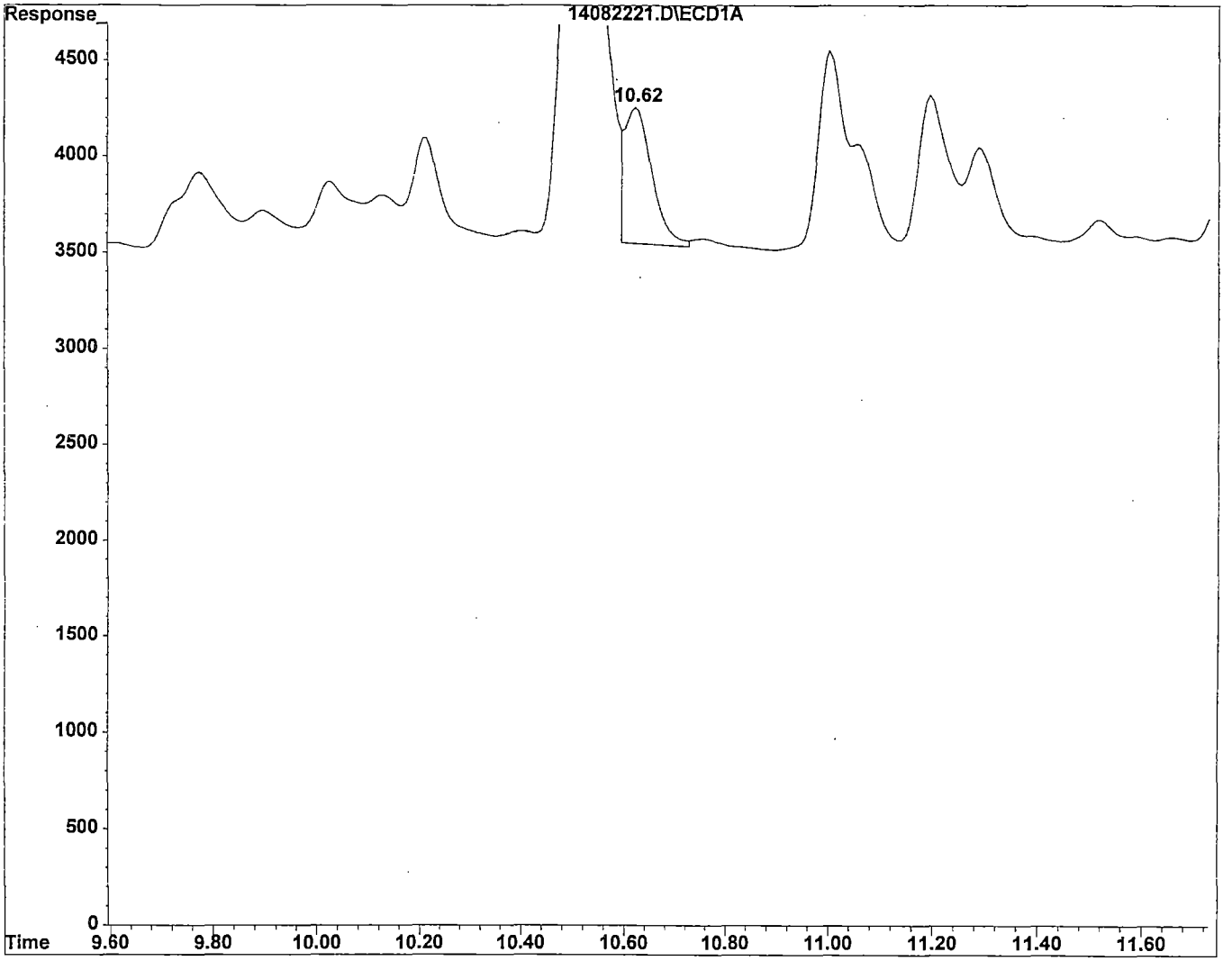
Aroclor-1242 {2} 10.21min area: 21620 m

Integration Time Range: 10.16 - 10.34 JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082221.D
Report generated: Fri Sep 07 09:35:18 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082221.D
Date Acquired: 22 Aug 2001 18:21
Inst: HP_14 Operator ID: TLM
Name: 47166.09 *E00Y9 *
Misc: *EPA*30.1G/5.0ML*18
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:14 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {3} 10.62min area: 25396 m

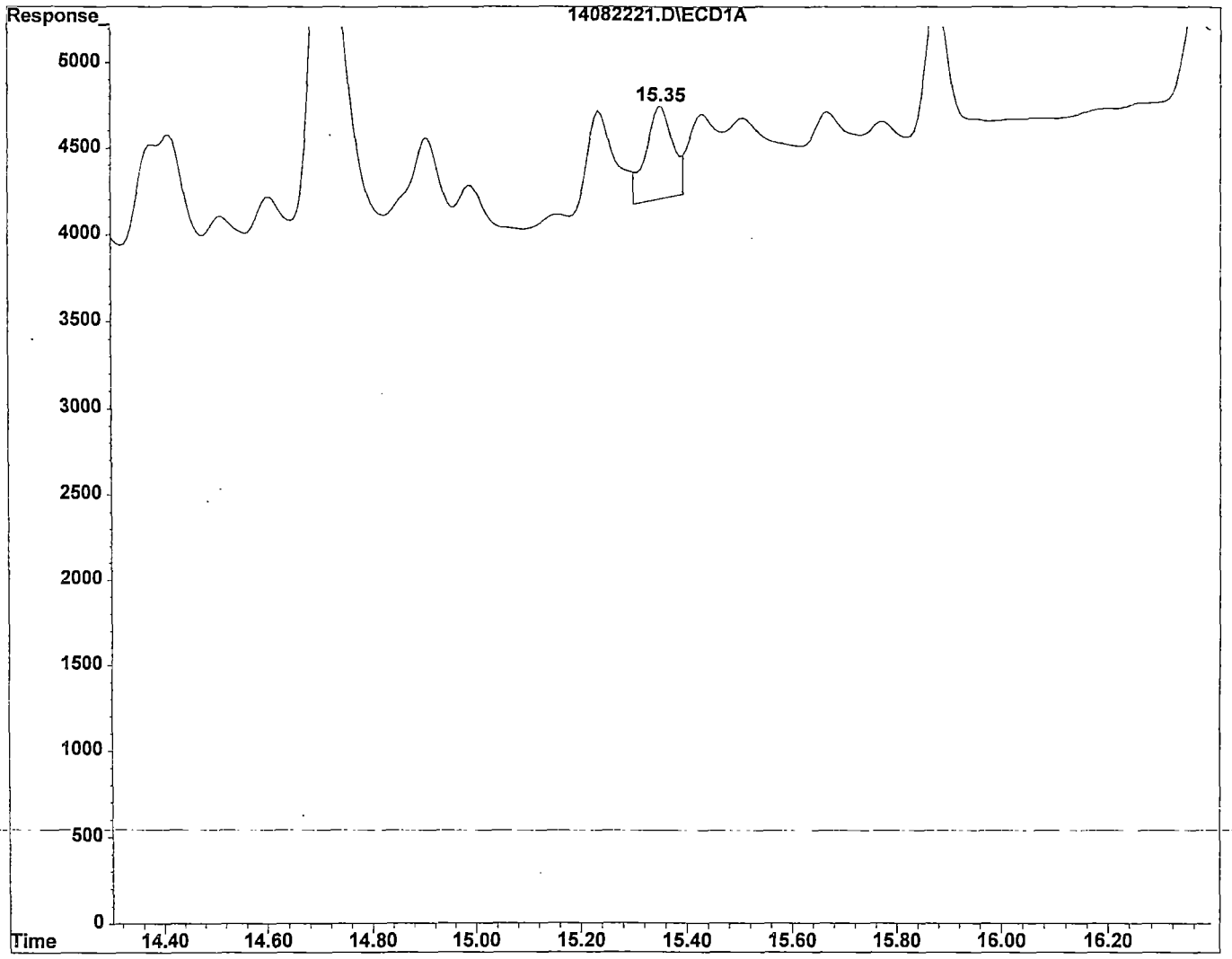
Integration Time Range: 10.59 - 10.73

TM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082221.D
Report generated: Fri Sep 07 09:35:19 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082221.D
Date Acquired: 22 Aug 2001 18:21
Inst: HP_14 Operator ID: TLM
Name: 47166.09 *E00Y9 *
Misc: *EPA*30.1G/5.0ML*18
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:14 2001 Quant Results File: XPCBH20.RES



Aroclor-1260 {4} 15.35min area: 19328 m

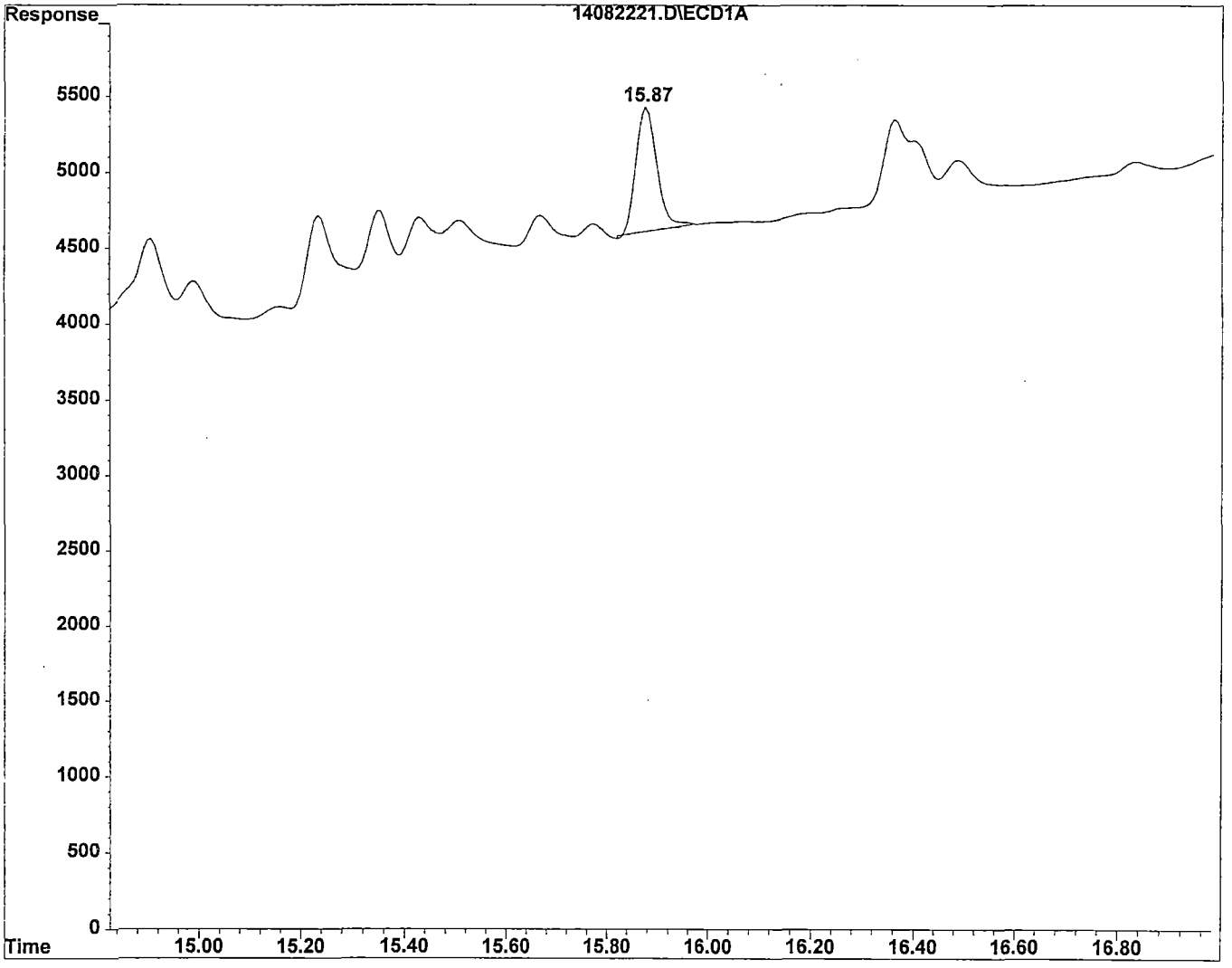
Integration Time Range: 15.30 - 15.39

JLM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082221.D
Report generated: Fri Sep 07 09:35:20 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082221.D
Date Acquired: 22 Aug 2001 18:21
Inst: HP_14 Operator ID: TLM
Name: 47166.09 *E00Y9 *
Misc: *EPA*30.1G/5.0ML*18
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:14 2001 Quant Results File: XPCBH20.RES



Aroclor-1260 {5} 15.87min area: 23016 m

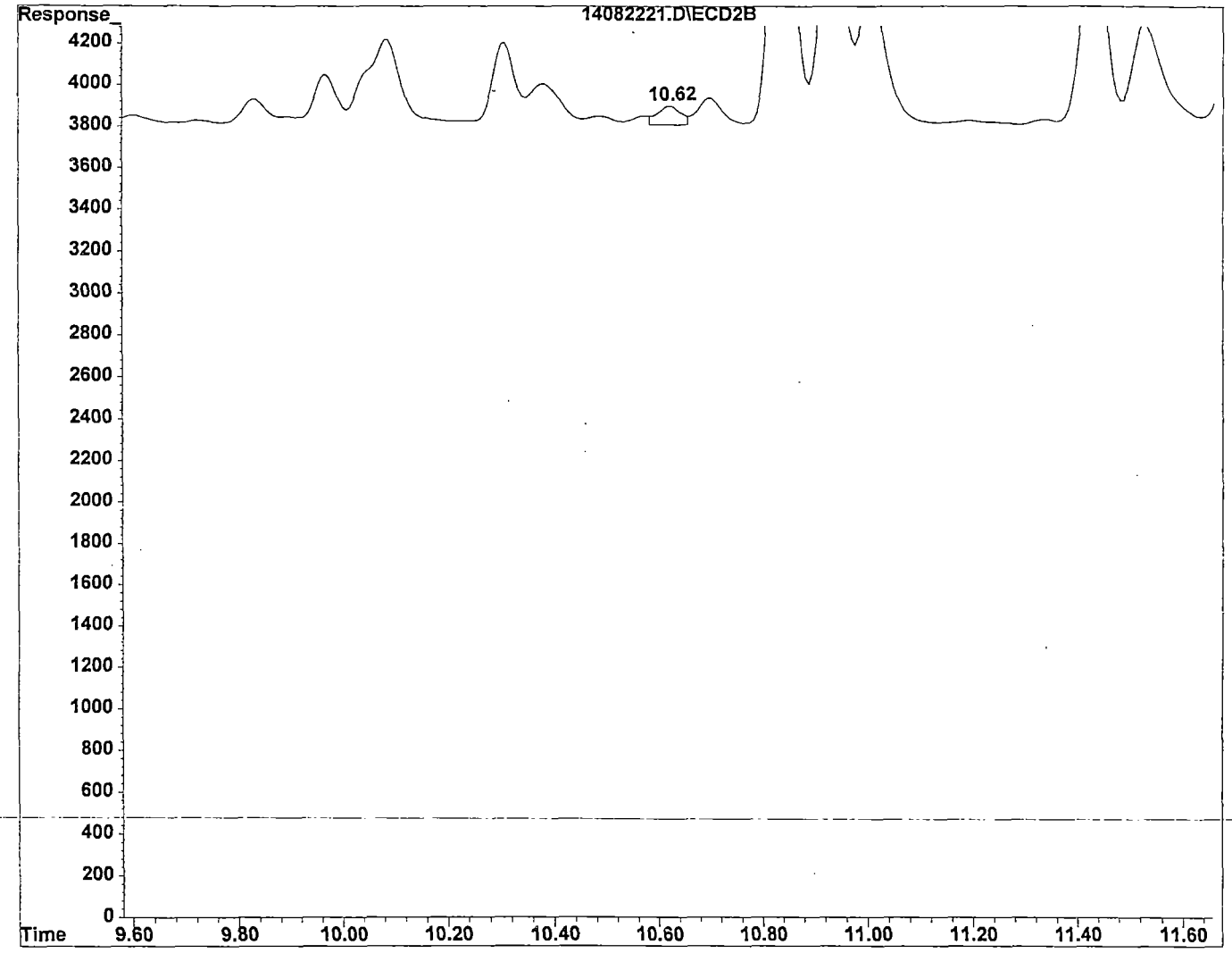
Integration Time Range: 15.83 - 15.98

TM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082221.D
Report generated: Fri Sep 07 09:35:21 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082221.D
Date Acquired: 22 Aug 2001 18:21
Inst: HP_14 Operator ID: TLM
Name: 47166.09 *E00Y9 *
Misc: *EPA*30.1G/5.0ML*18
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:14 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {2} #2 10.62min area: 2820 m

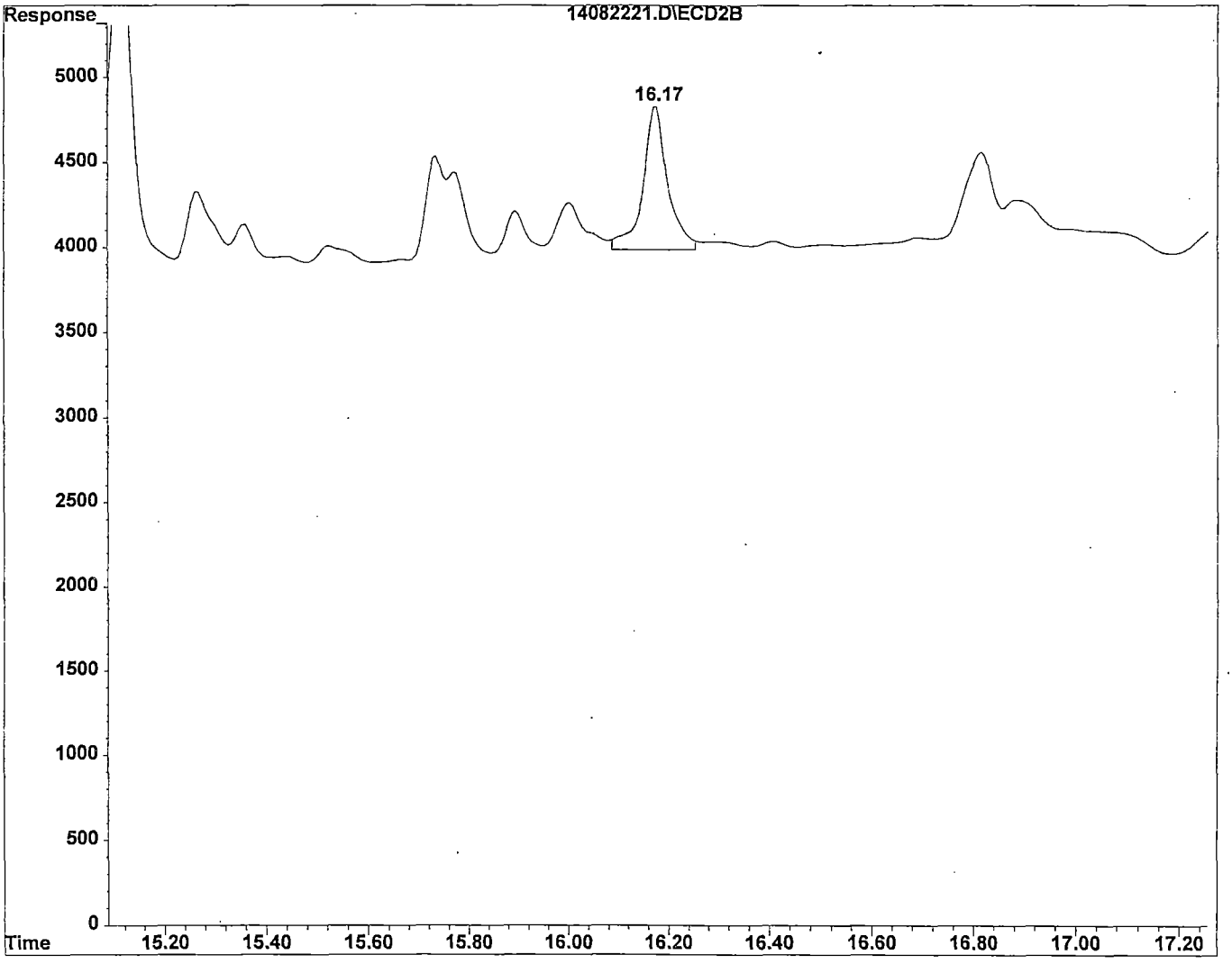
Integration Time Range: 10.58 - 10.66

JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082221.D
Report generated: Fri Sep 07 09:35:22 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082221.D
Date Acquired: 22 Aug 2001 18:21
Inst: HP_14 Operator ID: TLM
Name: 47166.09 *E00Y9 *
Misc: *EPA*30.1G/5.0ML*18
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:14 2001 Quant Results File: XPCBH20.RES



Aroclor-1260 {5} #2 16.17min area: 28900 m

Integration Time Range: 16.09 - 16.25

JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082221.D
Report generated: Fri Sep 07 09:35:22 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Z0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.10

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

% Moisture: 16 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	39	UJ
11104-28-2	Aroclor-1221	39	UJ
11141-16-5	Aroclor-1232	39	UJ
53469-21-9	Aroclor-1242	70	J
12672-29-6	Aroclor-1248	39	UJ
11097-69-1	Aroclor-1254	100	J
11096-82-5	Aroclor-1260	35	J
Surrogate amount spiked		7.86	

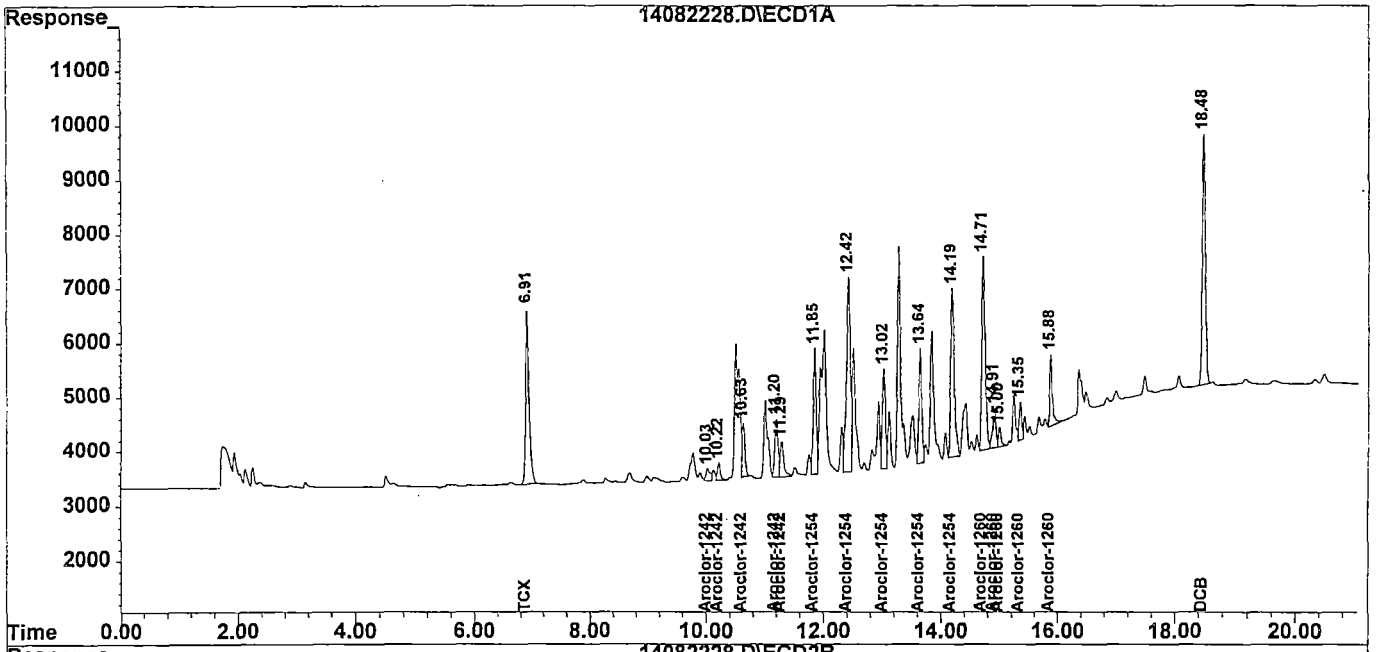
TBS
10-4-01

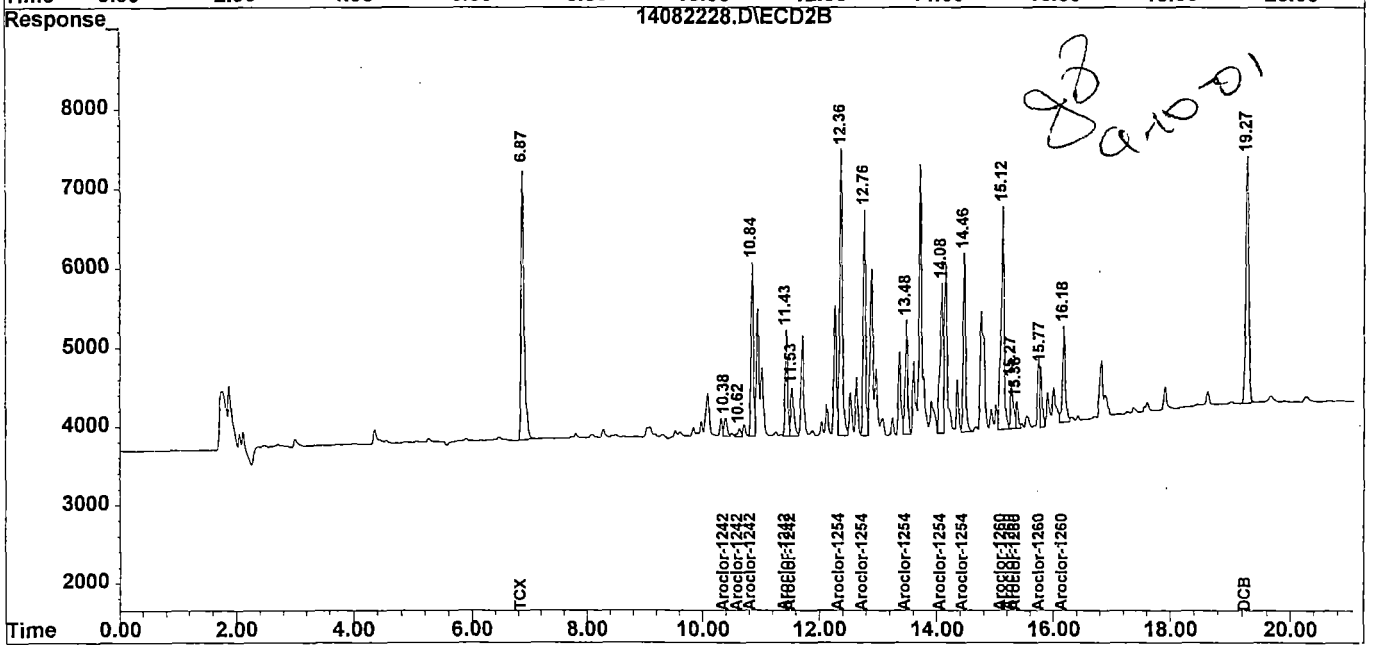
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082228.D\ECD1A.CH Vial: 28
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082228.D\ECD2B.CH
Acq On : 22 Aug 2001 21:10 Operator: TLM
Sample : 47166.10 *E00Z0 * Inst : HP_14
Misc : *EPA*30.3G/5.0ML*16 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 17:16 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





8/22/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082228.D\ECD1A.CH Vial: 28
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082228.D\ECD2B.CH
Acq On : 22 Aug 2001 21:10 Operator: TLM
Sample : 47166.10 *E00Z0 * Inst : HP_14
Misc : *EPA*30.3G/5.0ML*16 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 17:16 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

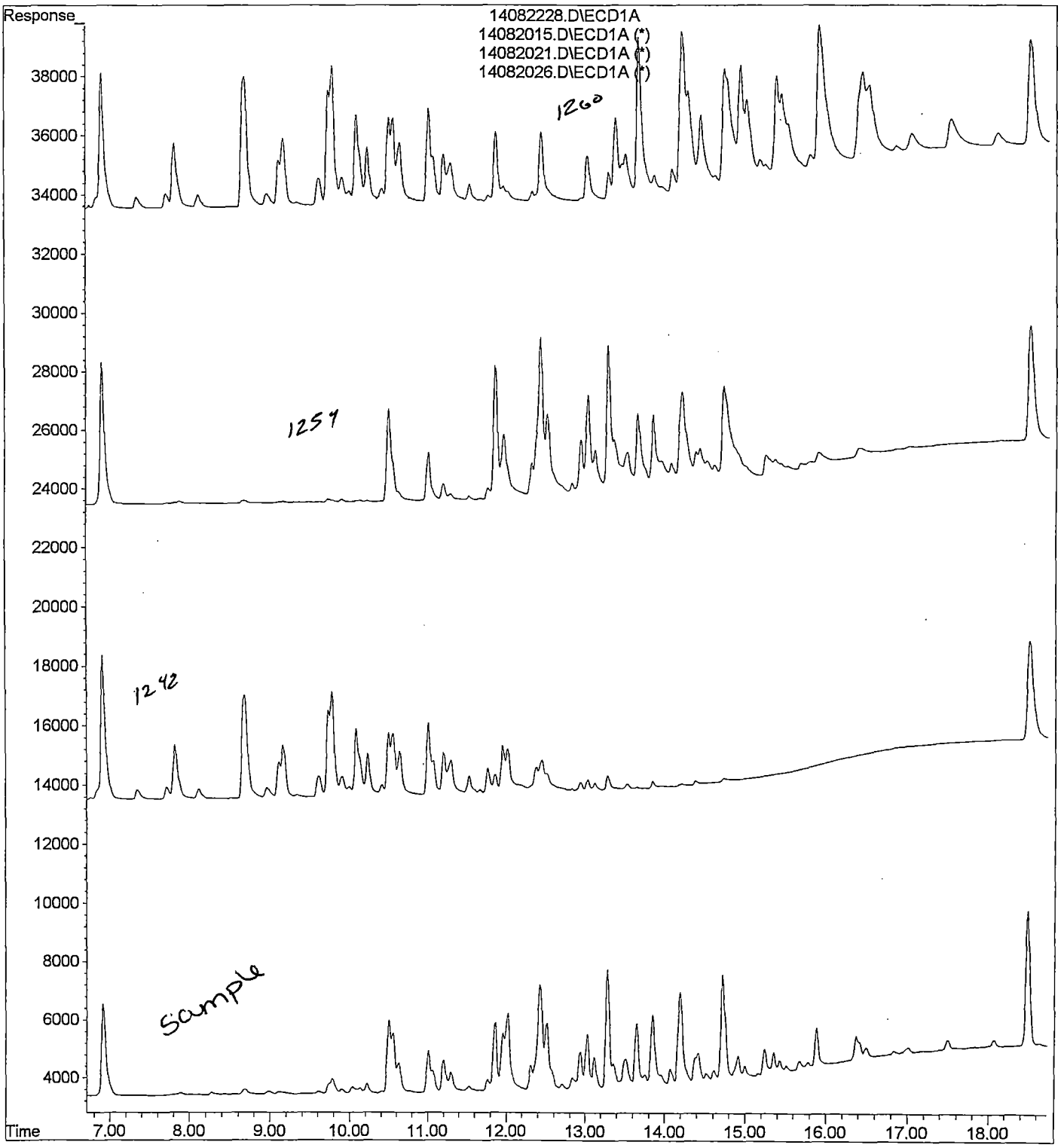
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	6.91	6.87	129856	128502	4.960	5.370	
	Spiked Amount 7.858			Recovery	=	63.12%	68.34%	
22)	S DCB	18.49	19.27	167338	109368	6.526	6.651	
	Spiked Amount 7.858			Recovery	=	83.05%	84.64%	
	Target Compounds:							
7)	L4 Aroclor-1242	10.03f	10.39	10100	8784	15.3	17.6	
8)	L4 Aroclor-1242 {2}	10.22	10.63	11655	3899	32.2	15.2	#
9)	L4 Aroclor-1242 {3}	10.63	10.84	34513	64375	84.3	190.1	#
10)	L4 Aroclor-1242 {4}	11.20	11.44	40071	40493	139.1	104.7	
11)	L4 Aroclor-1242 {5}	11.30	11.53	28444	23631	77.3	102.6	#
	Sum Aroclor-1242			124783	141182	348.2	430.2	
	Average Aroclor-1242					69.649	86.032	
12)	L6 Aroclor-1254	11.85	12.36	80137	120508	80.5	143.1	#
13)	L6 Aroclor-1254 {2}	12.42	12.76	162569	85659	107.8	104.8	
14)	L6 Aroclor-1254 {3}	13.03	13.48	66275	44310	89.0	80.4	
15)	L6 Aroclor-1254 {4}	13.65	14.08	72116	64522	105.4	126.9	
16)	L6 Aroclor-1254 {5}	14.19	14.47	135570	64857	126.5	109.4	
	Sum Aroclor-1254			516668	379856	509.2	564.7	
	Average Aroclor-1254					101.841	112.938	
17)	L7 Aroclor-1260	14.72	15.12	143075	106909	84.8	76.9	
18)	L7 Aroclor-1260 {2}	14.91	15.27	28910	20765	29.0	26.4	
19)	L7 Aroclor-1260 {3}	15.00	15.36	12041	9462	14.7	17.6	
20)	L7 Aroclor-1260 {4}	15.36	15.77	22236	19016	30.3	24.4m	
21)	L7 Aroclor-1260 {5}	15.88	16.18	42773	41113	18.8	28.0	#
	Sum Aroclor-1260			249034	197265	69.8	68.1	
	Average Aroclor-1260					35.533	34.664	

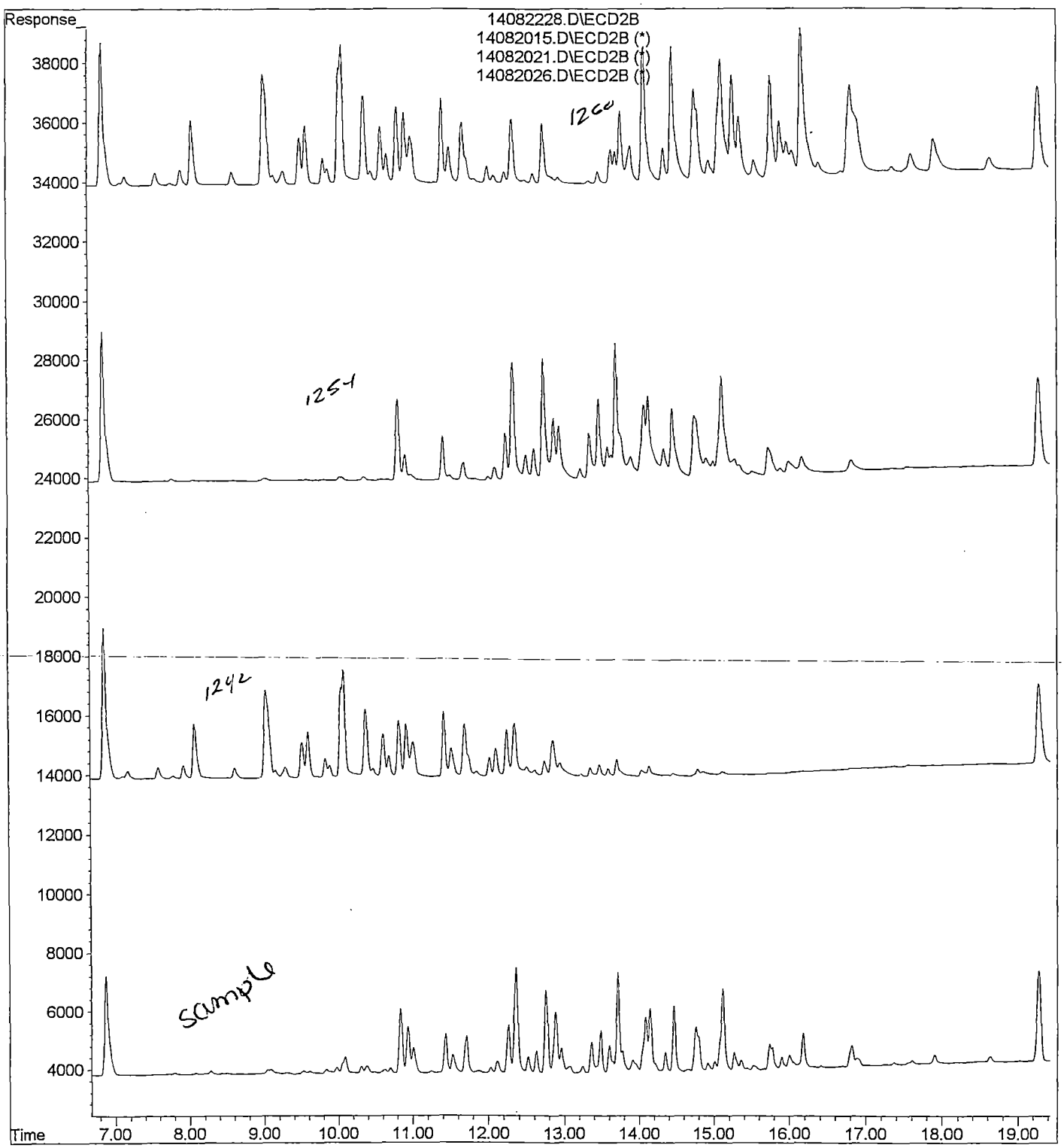
JM 9-7-01

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

File : F:\HPCHEM\HP\14\DATA\08_22_01\14082228.D
Operator : TLM
Acquired : 22 Aug 2001 21:10 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.10 *E00Z0 *
Misc Info : *EPA*30.3G/5.0ML*16
Vial Number: 28

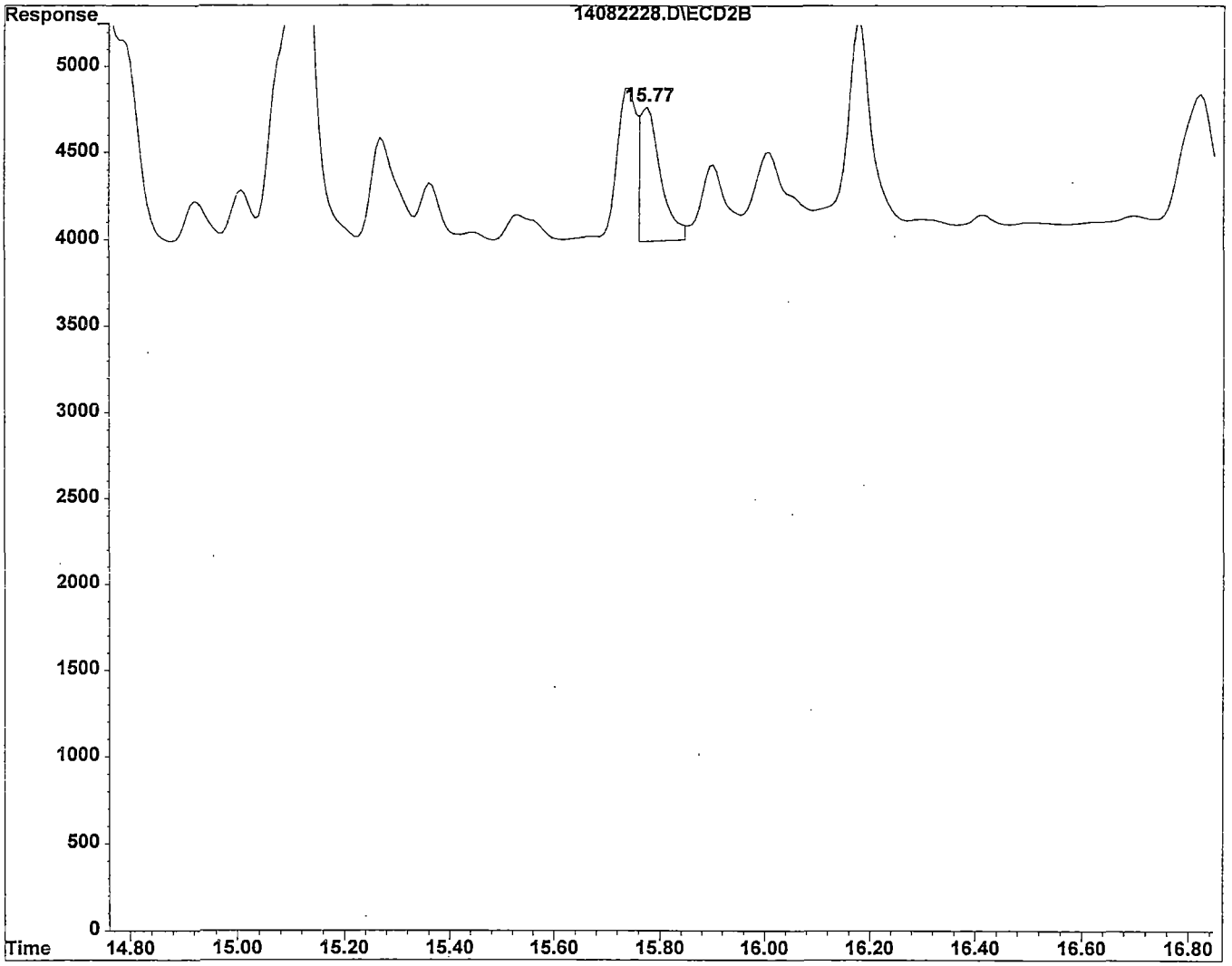


File : F:\HPCHEM\HP\14\DATA\08_22_01\14082228.D
Operator : TLM
Acquired : 22 Aug 2001 21:10 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.10 *E00Z0 *
Misc Info : *EPA*30.3G/5.0ML*16
Vial Number: 28



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082228.D
Date Acquired: 22 Aug 2001 21:10
Inst: HP_14 Operator ID: TLM
Name: 47166.10 *E00Z0 *
Misc: *EPA*30.3G/5.0ML*16
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:16 2001 Quant Results File: XPCBH20.RES



Aroclor-1260 {4} #2 15.77min area: 19016 m

Integration Time Range: 15.76 - 15.85

JNM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082228.D
Report generated: Fri Sep 07 09:35:24 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Z1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.11

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

% Moisture: 32 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	48	UJ
11104-28-2	Aroclor-1221	48	UJ
11141-16-5	Aroclor-1232	48	UJ
53469-21-9	Aroclor-1242	~~2700~~	8100DJ ~~E~~
12672-29-6	Aroclor-1248	48	UJ
11097-69-1	Aroclor-1254	~~4400~~	7100D ~~E~~ J
11096-82-5	Aroclor-1260	~~1800~~	2800DJ ~~E~~
	Surrogate amount spiked	9.74	

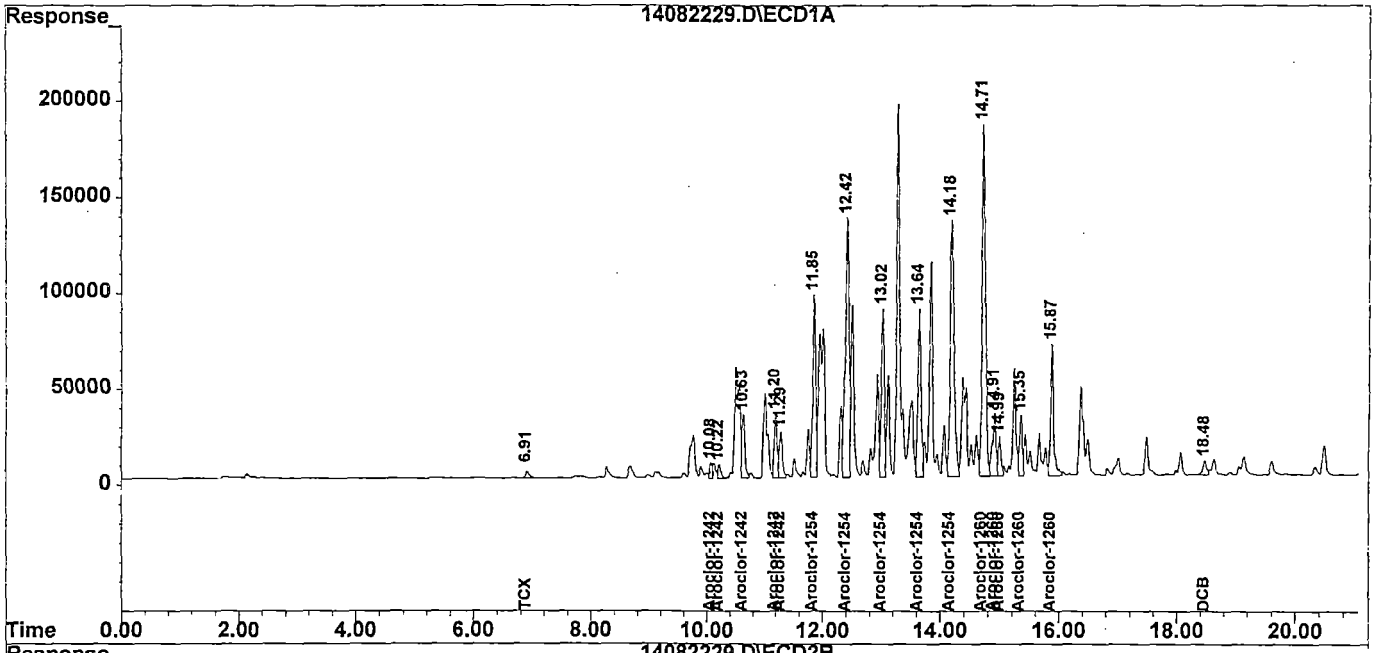
apply this results TBS 10-4-01

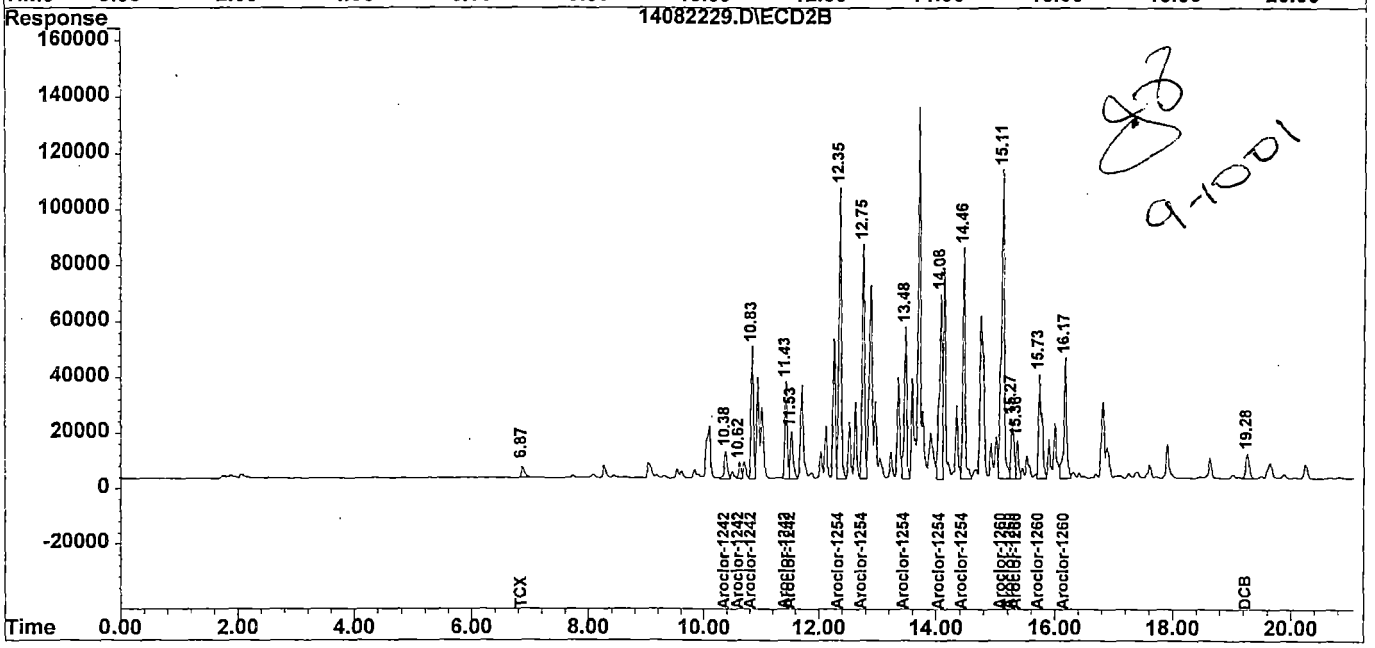
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082229.D\ECD1A.CH Vial: 29
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082229.D\ECD2B.CH
Acq On : 22 Aug 2001 21:34 Operator: TLM
Sample : 47166.11 *E00Z1 * Inst : HP_14
Misc : *EPA*30.2G/5.0ML*32 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 17:33 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082229.D\ECD1A.CH Vial: 29
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082229.D\ECD2B.CH
Acq On : 22 Aug 2001 21:34 Operator: TLM
Sample : 47166.11 *E00Z1 * Inst : HP_14
Misc : *EPA*30.2G/5.0ML*32 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 17:33 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

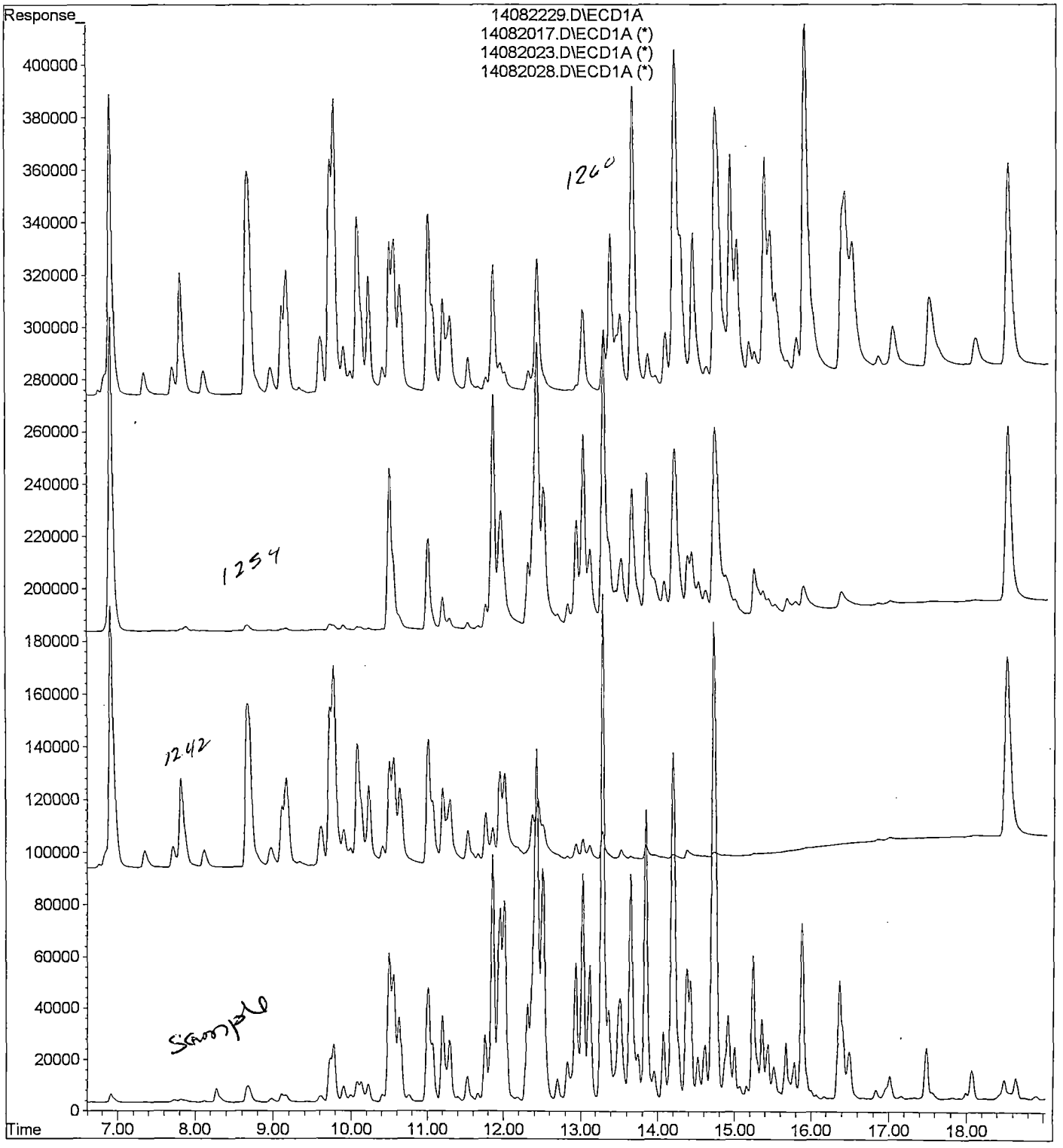
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
System Monitoring Compounds:						
1) S TCX	6.91	6.87	136237	140547	6.449	7.280
Spiked Amount 9.739			Recovery	=	66.22%	74.75%
22) S DCB	18.48	19.28	323648	378472	15.6m	28.5 #
Spiked Amount 9.739			Recovery	=	160.18%	292.64%
Target Compounds:						
7) L4 Aroclor-1242	10.08	10.38	234635	401028	440.2	993.4 E#
8) L4 Aroclor-1242 {2}	10.22	10.62	255119	169444	873.6 E	818.6 E
9) L4 Aroclor-1242 {3}	10.63	10.84	1285841	1393401	3891.0 E	5100.7 E#
10) L4 Aroclor-1242 {4}	11.20	11.43	1162859	1038702	5004.5 E	3328.8 E#
11) L4 Aroclor-1242 {5}	11.29	11.53	917352	621664	3091.7 E	3344.1 E
Sum Aroclor-1242			3855806	3624239	13301.0	13585.5
Average Aroclor-1242					2660.194	2717.105
12) L6 Aroclor-1254	11.85	12.36	3249350	3139558	4046.7 E	4621.0 E
13) L6 Aroclor-1254 {2}	12.42	12.76	6320311	2413381	5194.6 E	3661.2 E#
14) L6 Aroclor-1254 {3}	13.02	13.48	3050823	1598723	5075.7 E	3594.4 E#
15) L6 Aroclor-1254 {4}	13.64	14.08	3083770	2192682	5586.1 E	5345.7 E
16) L6 Aroclor-1254 {5}	14.18	14.46	6119611	2258194	7077.3 E	4722.1 E#
Sum Aroclor-1254			21823865	11602537	26980.5	21944.5
Average Aroclor-1254					5396.097	4388.894
17) L7 Aroclor-1260	14.71	15.12	7226537	3941959	5309.6 E	3512.9 E#
18) L7 Aroclor-1260 {2}	14.91	15.27	1454206	793077	1810.8 E	1250.3 E#
19) L7 Aroclor-1260 {3}	14.99	15.36	642361	377874	969.6 E	872.6 E
20) L7 Aroclor-1260 {4}	15.35	15.74f	984361	1488965	1664.8 E	2371.4 E#
21) L7 Aroclor-1260 {5}	15.88	16.18	2409428	1444190	1312.1 E	1217.8 E
Sum Aroclor-1260			12716892	8046065	5389.0	4492.1
Average Aroclor-1260					2213.373	1844.979

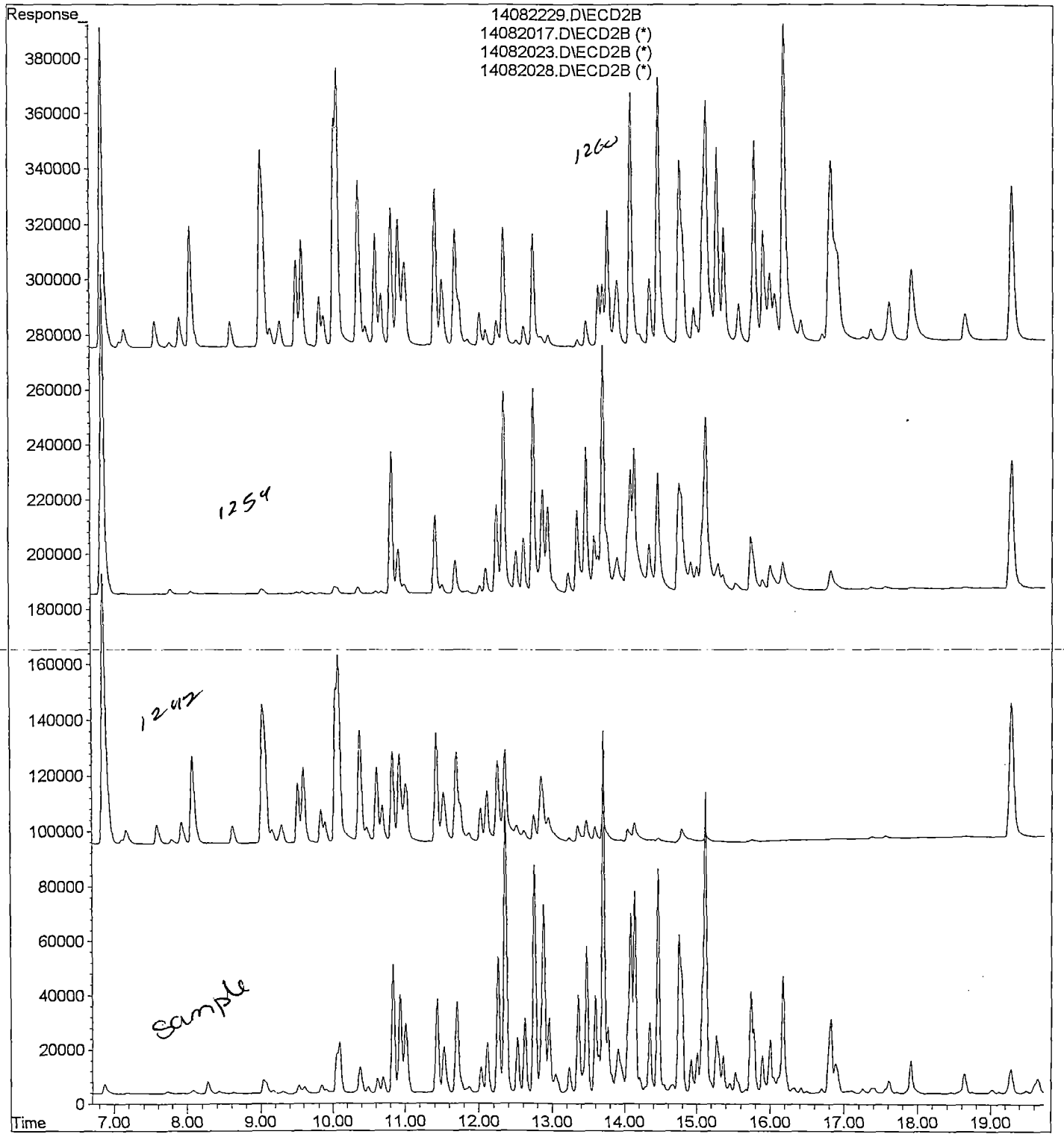
7PM 9-7d

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

File : F:\HPCHEM\HP\14\DATA\08_22_01\14082229.D
Operator : TLM
Acquired : 22 Aug 2001 21:34 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.11 *E00Z1 *
Misc Info : *EPA*30.2G/5.0ML*32
Vial Number: 29

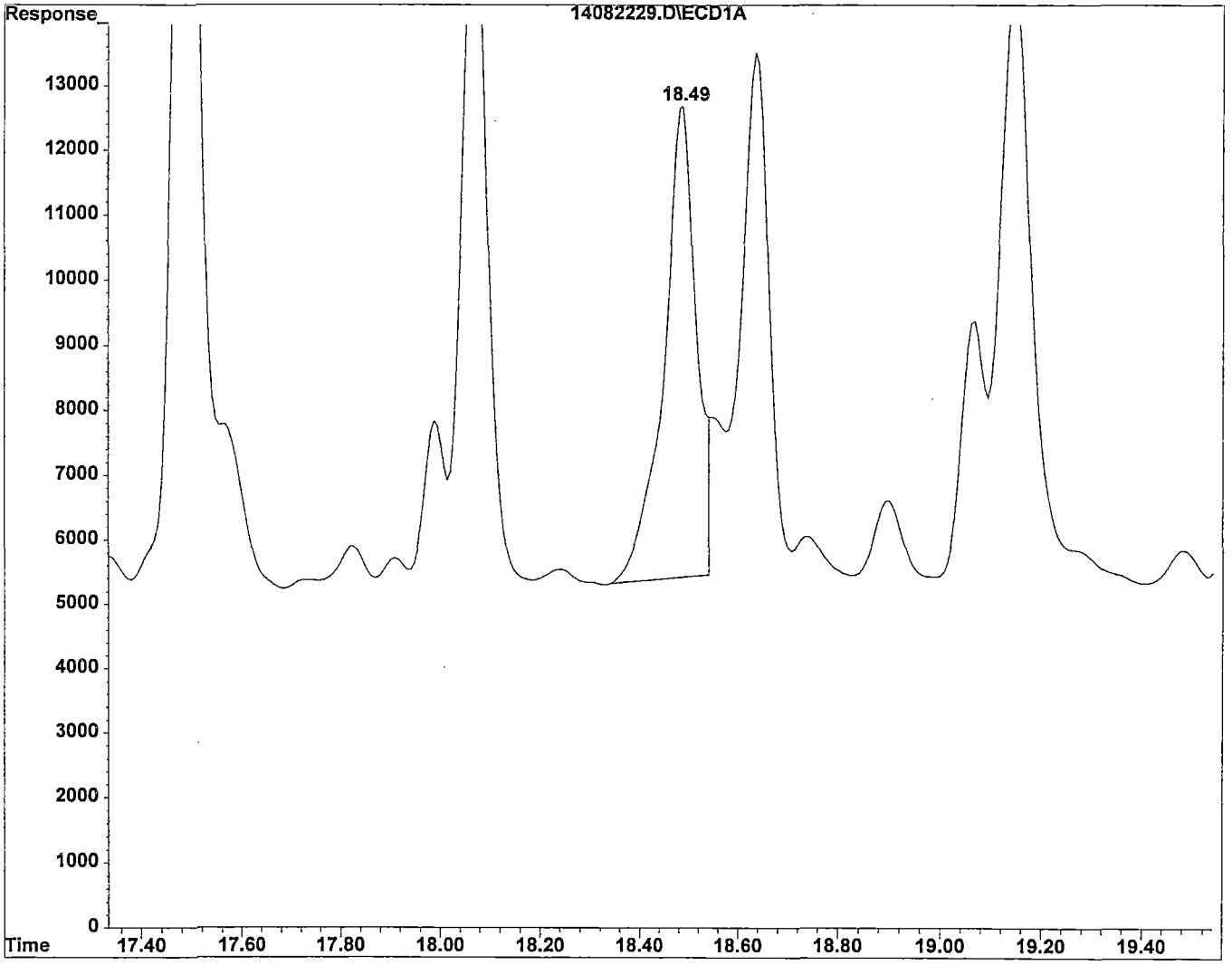


File : F:\HPCHEM\HP\14\DATA\08_22_01\14082229.D
Operator : TLM
Acquired : 22 Aug 2001 21:34 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.11 *E00Z1 *
Misc Info : *EPA*30.2G/5.0ML*32
Vial Number: 29



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082229.D
Date Acquired: 22 Aug 2001 21:34
Inst: HP_14 Operator ID: TLM
Name: 47166.11 *E00Z1 *
Misc: *EPA*30.2G/5.0ML*32
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:33 2001 Quant Results File: XPCBH20.RES



DCB 18.48min area: 323648 m

Integration Time Range: 18.33 - 18.54

TM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082229.D
Report generated: Fri Sep 07 09:35:26 2001

SOUTHWEST LABORATORY OF OKLAHOMA
GC LABORATORY

REPORT DATE: 09/07/01

CLIENT SAMPLE ID: E00Z1 LAB SAMPLE ID: 47166.11
MS FILE ID: 14082230.D MSD FILE ID: 14082231.D
SAMPLE MATRIX: SOIL METHOD:
DATE ANALYZED: 08/22/01 PROJECT: OLM04.2

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

PARAMETER	SPIKE ADDED UG/KG	SAMPLE CONC. UG/KG	MS % REC.	MSD % REC.	RPD	QC LIMITS RPD	QC LIMITS RECOVERY
Aroclor-1254	194	4400	0*	510*	21	50	29-131

* = VALUE OUTSIDE OF QC LIMITS

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Z1DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.11DL

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

% Moisture: 32 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/29/01

Injection Volume: 0.5(uL) Dilution Factor: 50.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	2400	U
11104-28-2	Aroclor-1221	2400	U
11141-16-5	Aroclor-1232	2400	U
53469-21-9	Aroclor-1242	8100	DJ
12672-29-6	Aroclor-1248	2400	U
11097-69-1	Aroclor-1254	7100	DJ
11096-82-5	Aroclor-1260	2800	DJ
Surrogate amount spiked		9.74	

TBS
10-4-01

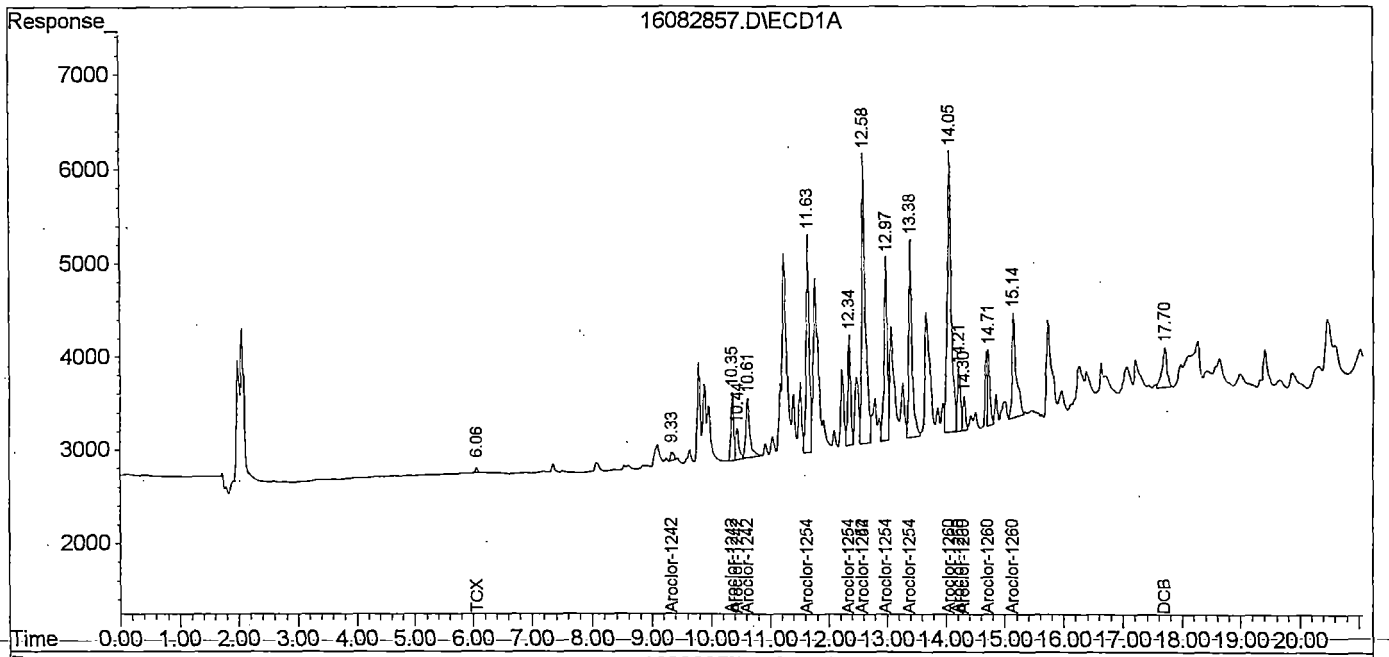
FORM I PCB

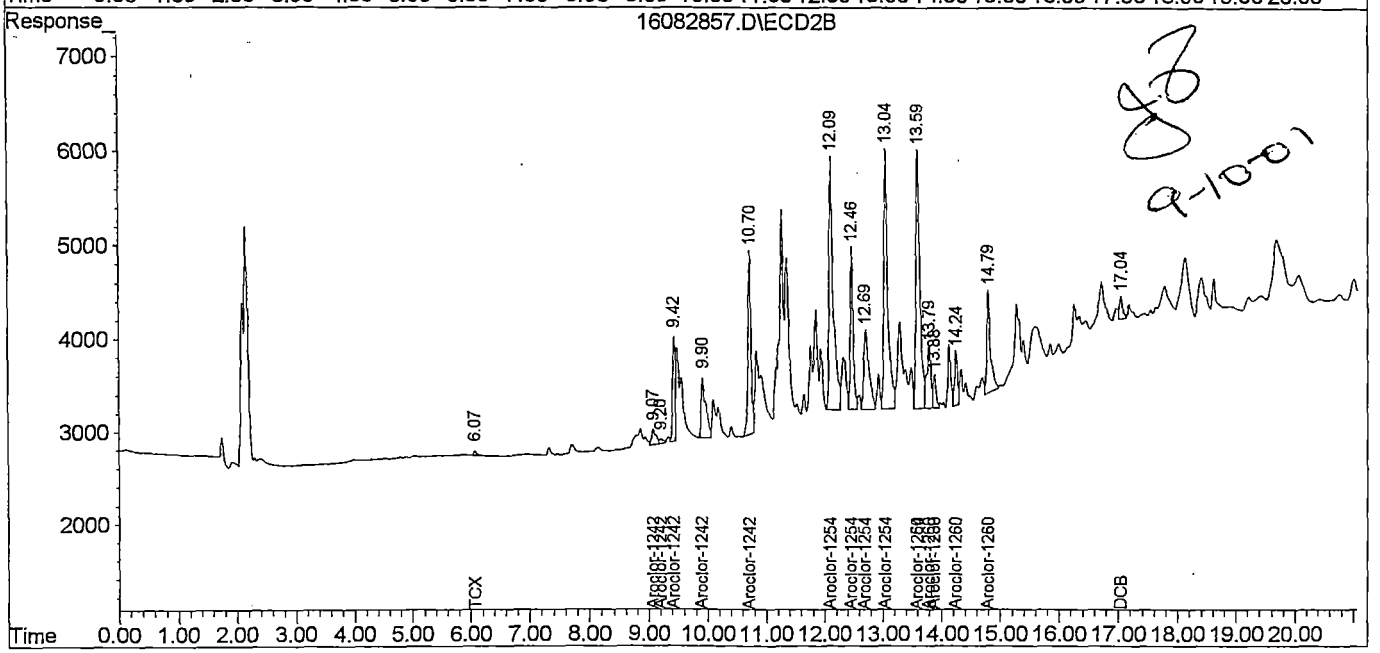
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082857.D\ECD1A.CH Vial: 57
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082857.D\ECD2B.CH
Acq On : 29 Aug 2001 11:33 Operator: TLM
Sample : 47166.11DL *E00Z1DL * Inst : HP_16
Misc : *EPA*30.2G/5.0ML*32 Dilution: 50.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 10 12:49 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082857.D\ECD1A.CH Vial: 57
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082857.D\ECD2B.CH
Acq On : 29 Aug 2001 11:33 Operator: TLM
Sample : 47166.11DL *E00Z1DL * Inst : HP_16
Misc : *EPA*30.2G/5.0ML*32 Dilution: 50.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 10 12:49 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

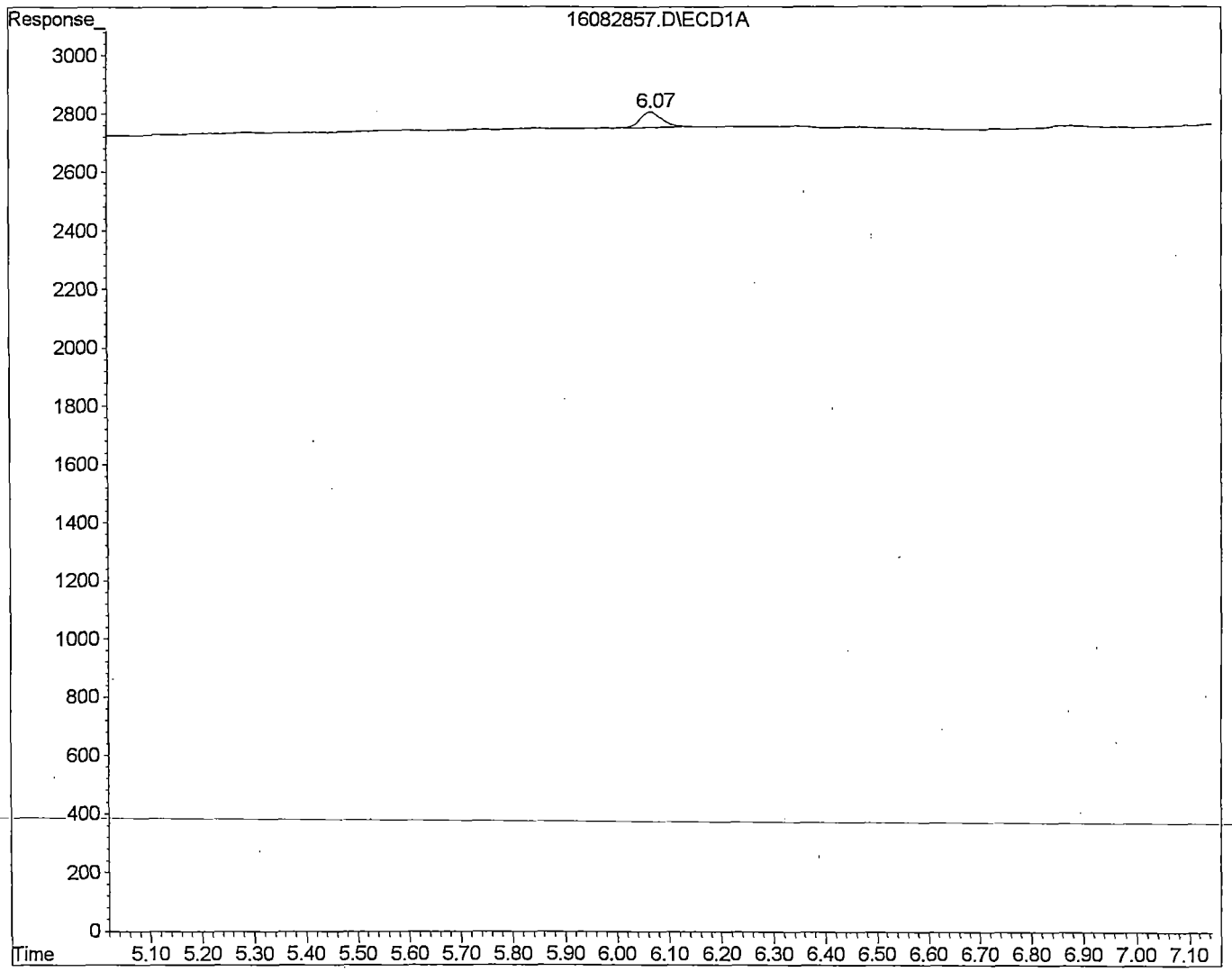
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	6.06	6.07	1488	1612	7.254m	7.011m	
	Spiked Amount 9.739			Recovery	=	74.48%	71.99%	
22)	S DCB	17.70	17.04	25284	9439	73.3m	29.7m	#
	Spiked Amount 9.739			Recovery	=	752.64%	304.96%	
	Target Compounds:							
7)	L4 Aroclor-1242	9.34	9.07	3643	8858	394.4	1235.5	#
8)	L4 Aroclor-1242 {2}	10.35	9.21	23155	2799	4190.0	644.1	#
9)	L4 Aroclor-1242 {3}	10.44	9.43	13078	34142	4198.2	8888.1	#
10)	L4 Aroclor-1242 {4}	10.61	9.90	29775	35273	3735.1	4682.6	#
11)	L4 Aroclor-1242 {5}	12.58	10.71	133390	71907	64574.8 E	25098.1	#
	Sum Aroclor-1242			203041	152978	77092.5	40548.6	
	Average Aroclor-1242					15418.504	8109.713	
12)	L6 Aroclor-1254	11.63	12.10	84396	132848	6878.3m	8054.4	
13)	L6 Aroclor-1254 {2}	12.34	12.46	41094	61944	5023.2	8396.3	#
14)	L6 Aroclor-1254 {3}	12.58	12.70	133390	56096	7488.6	6463.4	
15)	L6 Aroclor-1254 {4}	12.97	13.04	71067	130406	7812.4	9733.0	
16)	L6 Aroclor-1254 {5}	13.39	13.59	82887	134174	8456.3	8699.1	
	Sum Aroclor-1254			412835	515467	35658.7	41346.1	
	Average Aroclor-1254					7131.745	8269.230	
17)	L7 Aroclor-1260	14.05	13.59	142719	134174	6700.2	6079.7	
18)	L7 Aroclor-1260 {2}	14.21	13.79	25216	32579	2059.3	2728.1	#
19)	L7 Aroclor-1260 {3}	14.30	13.88	11765	13258	1353.5	1634.9	
20)	L7 Aroclor-1260 {4}	14.72	14.24	24115	18755	1999.5	1767.5	
21)	L7 Aroclor-1260 {5}	15.14	14.79	53866	47744	2178.9	1826.6	
	Sum Aroclor-1260			257681	246510	347958.7	341760.2	
	Average Aroclor-1260					2858.272	2807.355	

JM 9-10-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_28_01\16082857.D
Date Acquired: 29 Aug 2001 11:33
Inst: HP_16 Operator ID: TLM
Name: 47166.11DL *E00Z1DL *
Misc: *EPA*30.2G/5.0ML*32
Method: F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title: PCB/TOXAPHENE
Quant Time: Aug 30 16:53 2001 Quant Results File: XPCBH28.RES



TCX 6.06min area: 1488 m

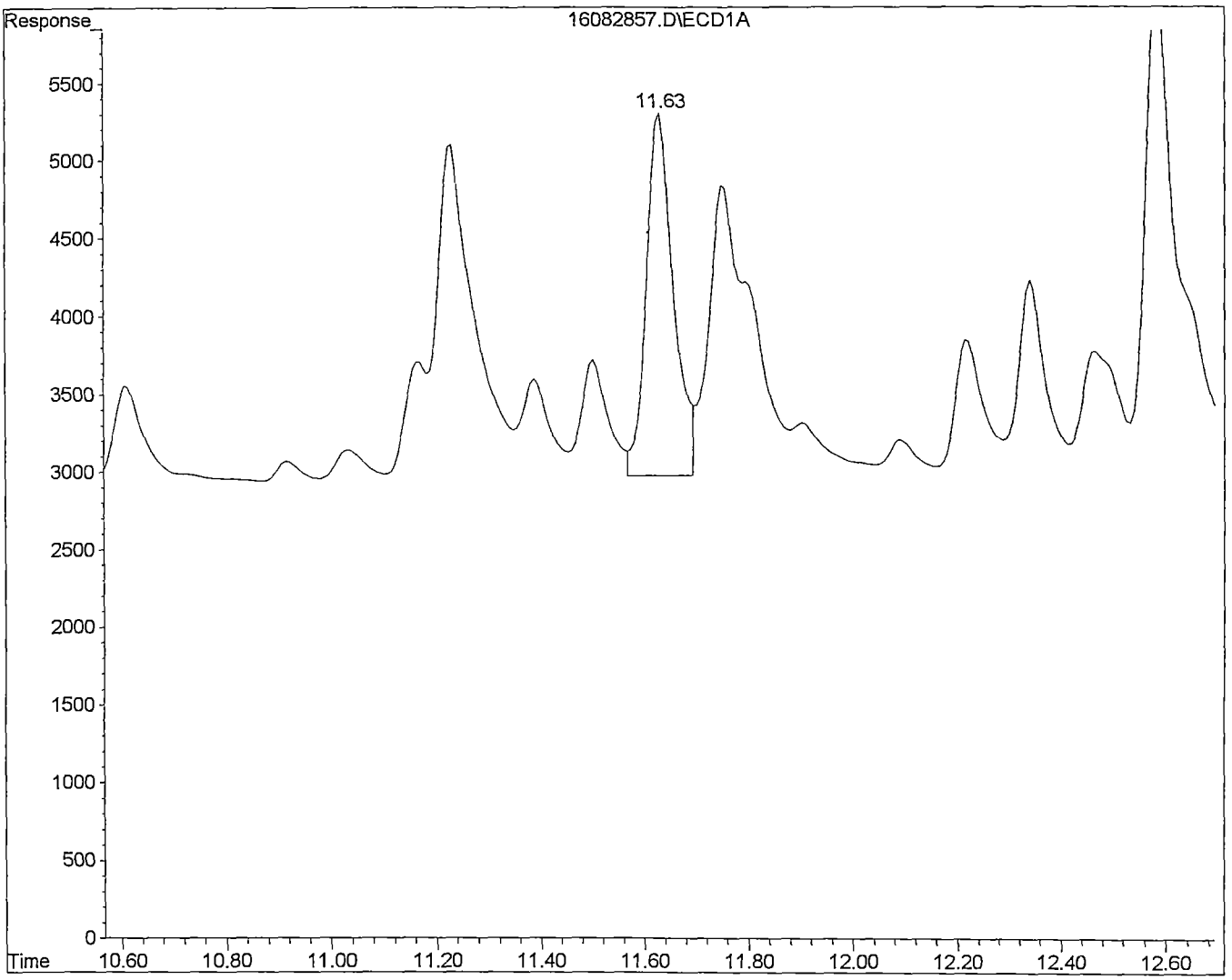
Integration Time Range: 6.02 - 6.14

Jam 8-30-01

F:\HPCHEM\HP\16\DATA\08_28_01\16082857.D
Report generated: Thu Aug 30 18:34:40 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_28_01\16082857.D
Date Acquired: 29 Aug 2001 11:33
Inst: HP_16 Operator ID: TLM
Name: 47166.11DL *E00Z1DL *
Misc: *EPA*30.2G/5.0ML*32
Method: F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title: PCB/TOXAPHENE
Quant Time: Sep 10 12:49 2001 Quant Results File: XPCBH28.RES



Aroclor-1254 11.63min area: 84396 m

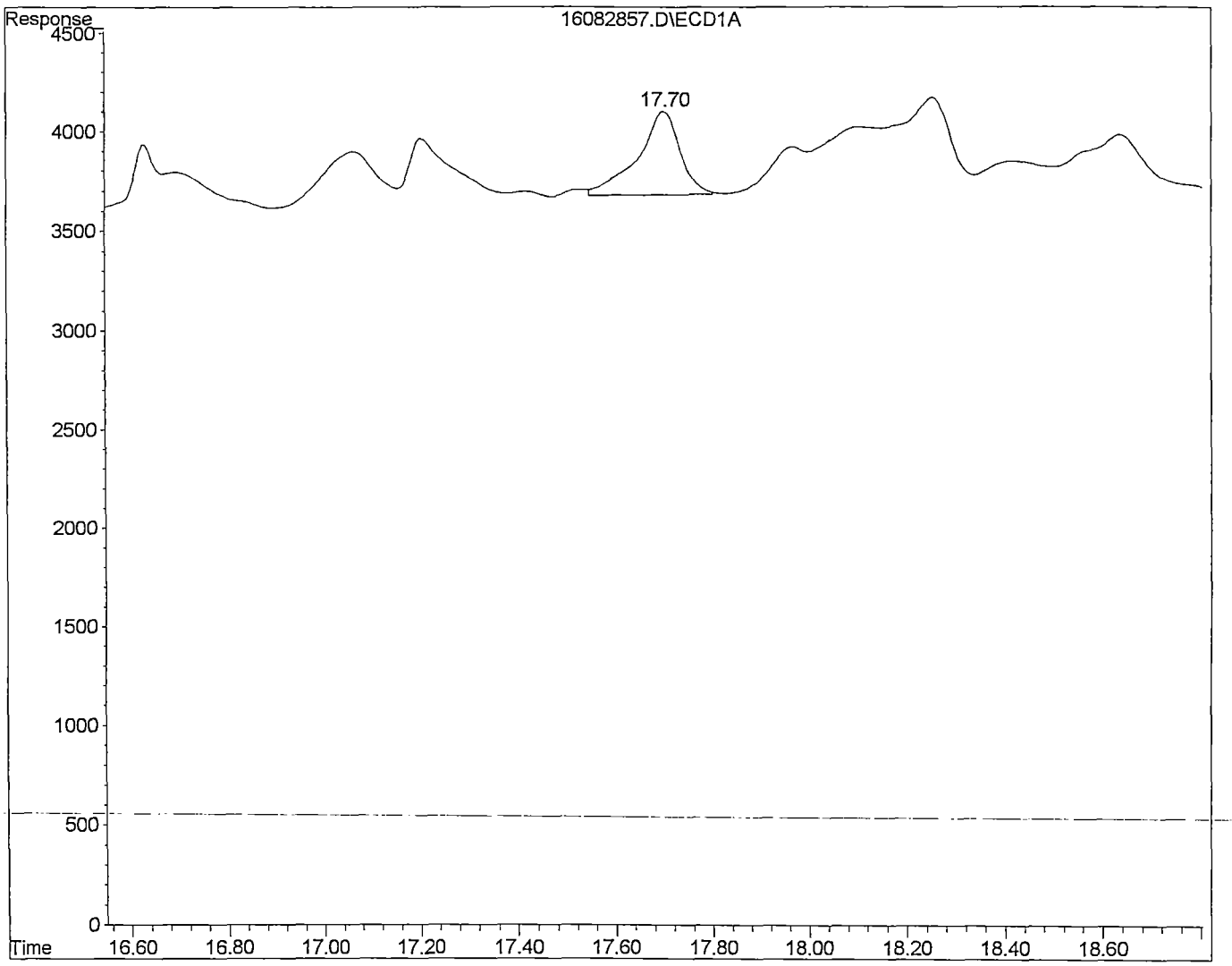
Integration Time Range: 11.57 - 11.69

JM
9-10-01

F:\HPCHEM\HP\16\DATA\08_28_01\16082857.D
Report generated: Mon Sep 10 12:51:20 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_28_01\16082857.D
Date Acquired: 29 Aug 2001 11:33
Inst: HP_16 Operator ID: TLM
Name: 47166.11DL *E00Z1DL *
Misc: *EPA*30.2G/5.0ML*32
Method: F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title: PCB/TOXAPHENE
Quant Time: Aug 30 16:53 2001 Quant Results File: XPCBH28.RES



DCB 17.70min area: 25284 m

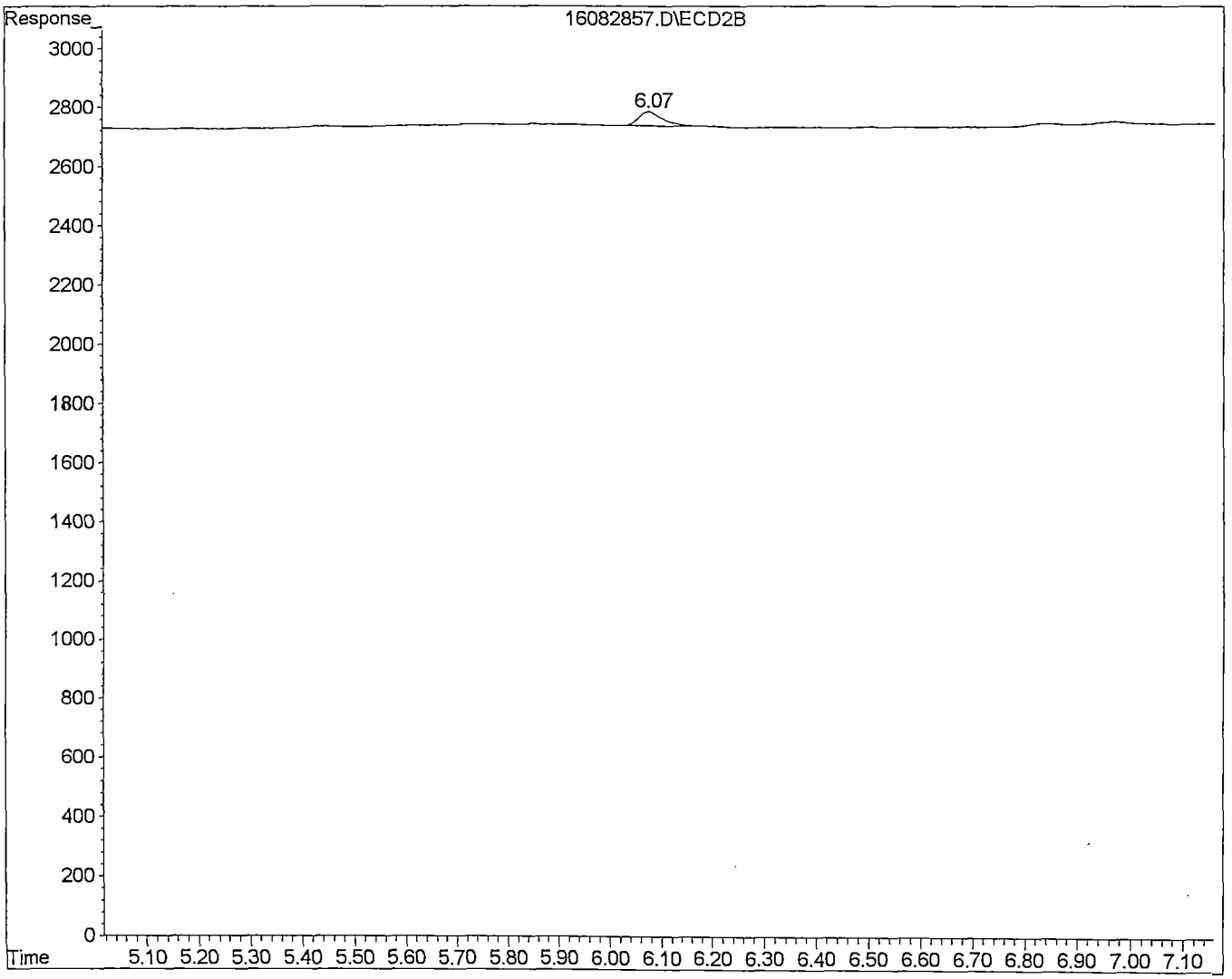
Integration Time Range: 17.55 - 17.80

TM 8-30-01

F:\HPCHEM\HP\16\DATA\08_28_01\16082857.D
Report generated: Thu Aug 30 18:34:41 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_28_01\16082857.D
Date Acquired: 29 Aug 2001 11:33
Inst: HP_16 Operator ID: TLM
Name: 47166.11DL *E00Z1DL *
Misc: *EPA*30.2G/5.0ML*32
Method: F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title: PCB/TOXAPHENE
Quant Time: Aug 30 16:53 2001 Quant Results File: XPCBH28.RES



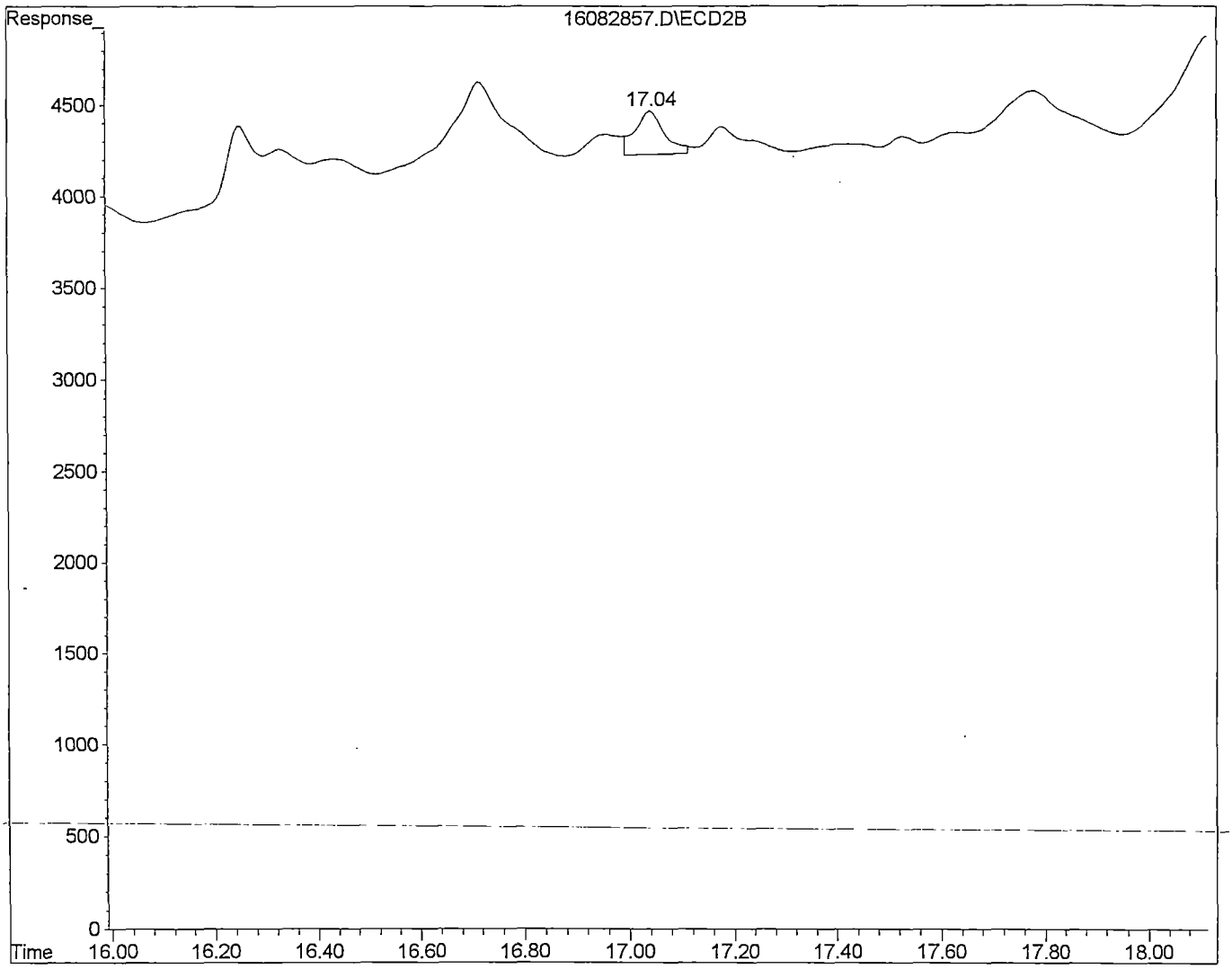
TCX #2 6.07min area: 1612 m

Integration Time Range: 6.02 - 6.16 JM 8-30-01

F:\HPCHEM\HP\16\DATA\08_28_01\16082857.D
Report generated: Thu Aug 30 18:34:41 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_28_01\16082857.D
Date Acquired: 29 Aug 2001 11:33
Inst: HP_16 Operator ID: TLM
Name: 47166.11DL *E00Z1DL *
Misc: *EPA*30.2G/5.0ML*32
Method: F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title: PCB/TOXAPHENE
Quant Time: Aug 30 16:53 2001 Quant Results File: XPCBH28.RES



DCB #2 17.04min area: 9439 m

Integration Time Range: 16.99 - 17.12

JM 8-30-01

F:\HPCHEM\HP\16\DATA\08_28_01\16082857.D
Report generated: Thu Aug 30 18:34:42 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Z2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.14

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

% Moisture: 19 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	41	UJ
11104-28-2	Aroclor-1221	41	UJ
11141-16-5	Aroclor-1232	41	UJ
53469-21-9	Aroclor-1242	320	J~~P~~
12672-29-6	Aroclor-1248	41	UJ
11097-69-1	Aroclor-1254	~~990~~ 990	DJ~~P~~
11096-82-5	Aroclor-1260	~~430~~ 540	DJ~~P~~
	Surrogate amount spiked	8.20	

TBS
10-4-01
apply this
results

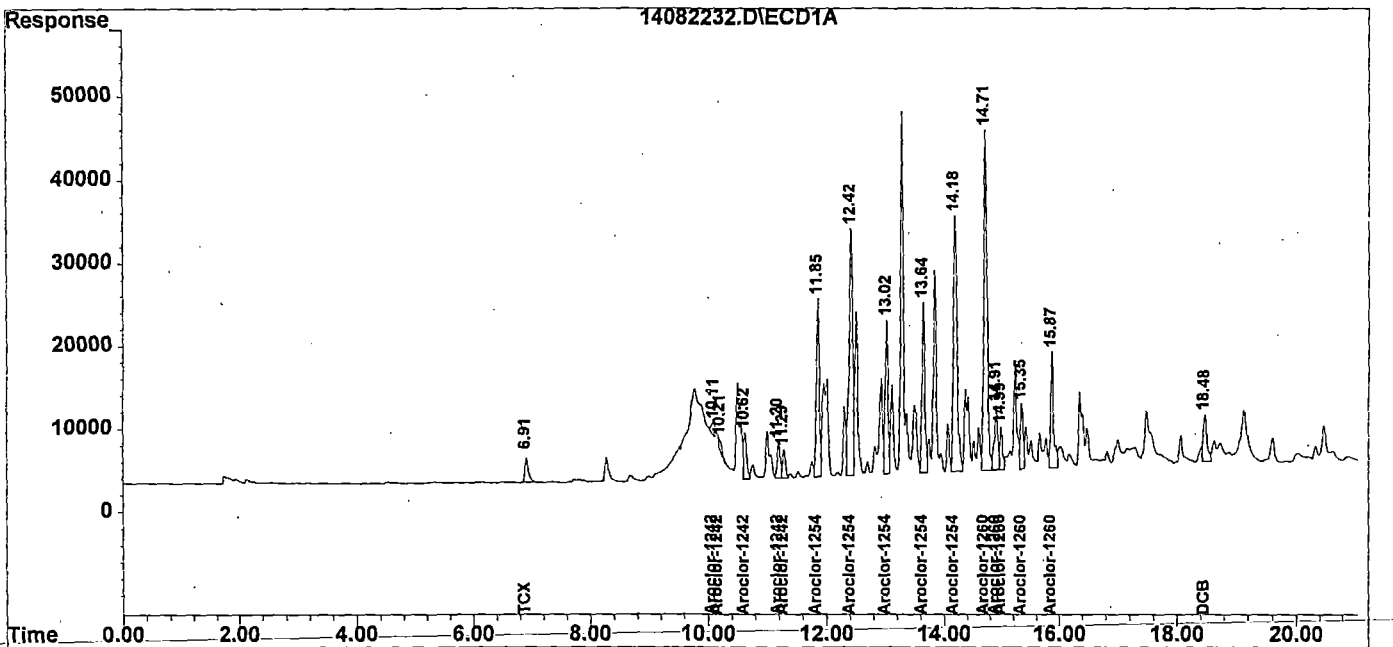
FORM I PCB

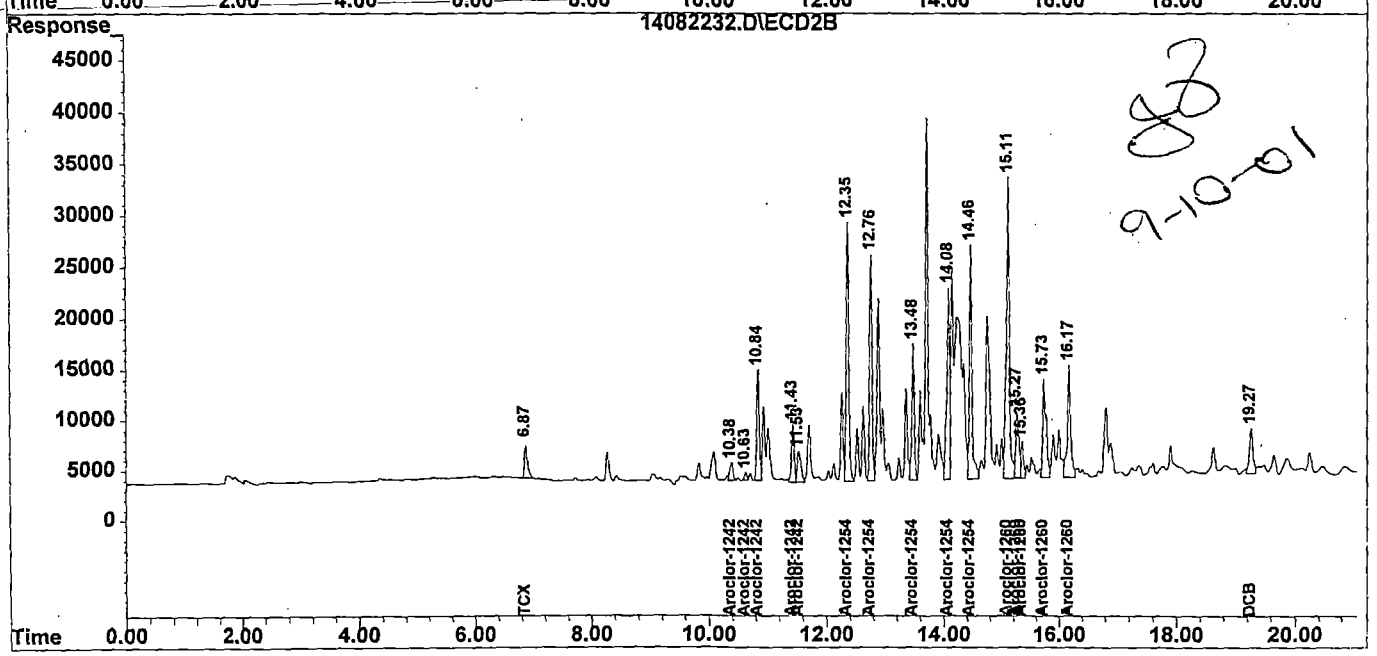
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082232.D\ECD1A.CH Vial: 32
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082232.D\ECD2B.CH
Acq On : 22 Aug 2001 22:47 Operator: TLM
Sample : 47166.14 *E00Z2 * Inst : HP_14
Misc : *EPA*30.1G/5.0ML*19 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 8:55 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





8-8
9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082232.D\ECD1A.CH Vial: 32
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082232.D\ECD2B.CH
Acq On : 22 Aug 2001 22:47 Operator: TLM
Sample : 47166.14 *E00Z2 * Inst : HP_14
Misc : *EPA*30.1G/5.0ML*19 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 8:55 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

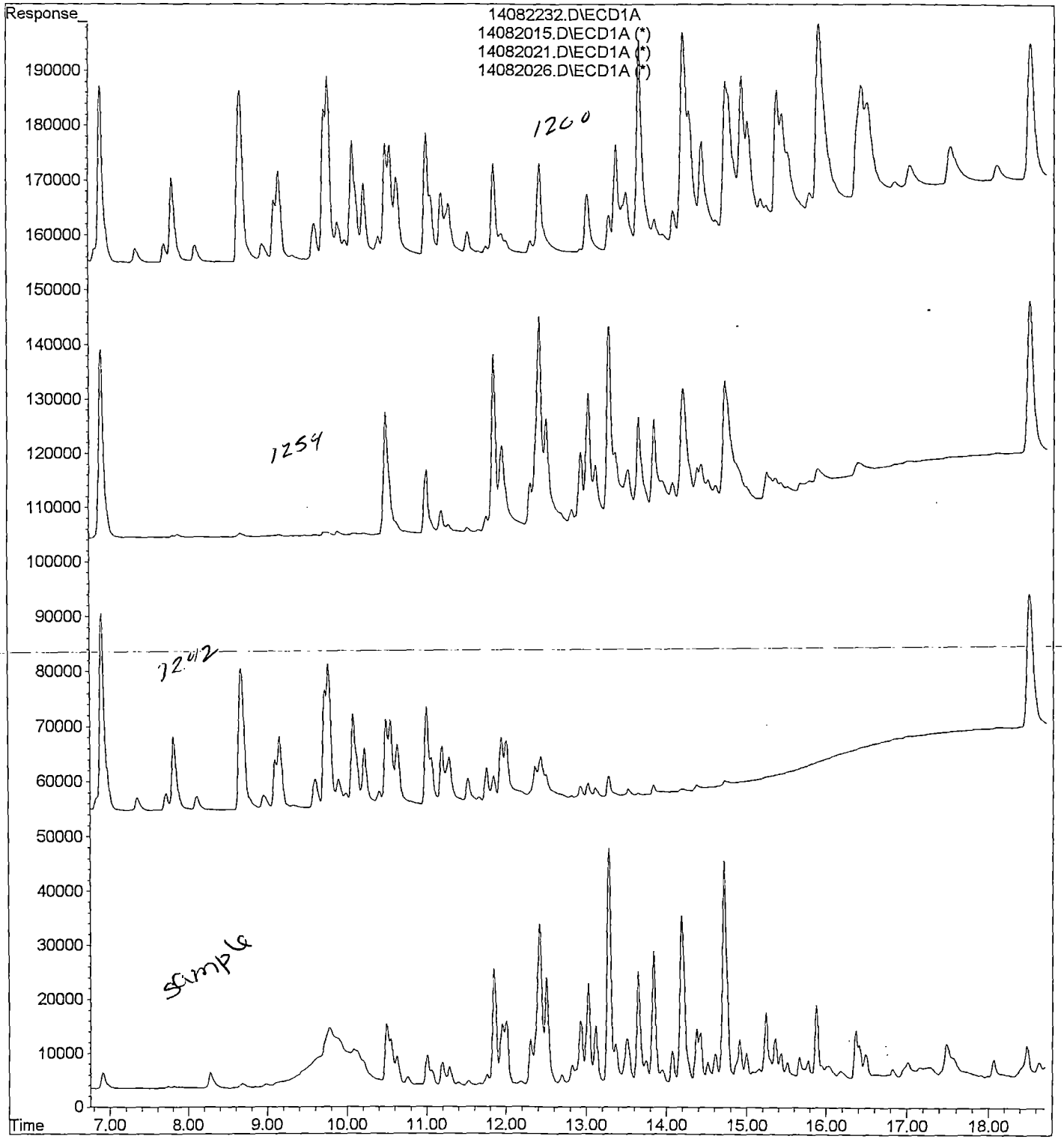
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	120290	119579	4.796	5.217m
	Spiked Amount 8.203			Recovery	=	58.47%	63.60%
22)	S DCB	18.48	19.27	239605	193735	9.755m	12.3m #
	Spiked Amount 8.203			Recovery	=	118.92%	149.94%
	Target Compounds:						
7)	L4 Aroclor-1242	10.08	10.38	46244	67044	73.1m	139.9m #
8)	L4 Aroclor-1242 {2}	10.18f	10.63	37884	24184	109.3m	98.4m
9)	L4 Aroclor-1242 {3}	10.63	10.84	207916	335752	529.9	1035.2mE#
10)	L4 Aroclor-1242 {4}	11.20	11.44	148378	185218	537.9	500.0
11)	L4 Aroclor-1242 {5}	11.29	11.53	124568	136392	353.6	618.0 E#
	Sum Aroclor-1242			564990	748590	1603.8	2391.5
	Average Aroclor-1242					320.751	478.294
12)	L6 Aroclor-1254	11.85	12.36	738725	787712	774.9 E	976.6 E#
13)	L6 Aroclor-1254 {2}	12.42	12.76	1276588	659902	883.7 E	843.2 E
14)	L6 Aroclor-1254 {3}	13.02	13.48	633072	406749	887.1 E	770.3 E
15)	L6 Aroclor-1254 {4}	13.64	14.08	691489	610905	1055.1 E	1254.5 E
16)	L6 Aroclor-1254 {5}	14.18	14.46	1370447	709539	1335.0 E	1249.7 E
	Sum Aroclor-1254			4710321	3174807	4935.8	5094.3
	Average Aroclor-1254					987.170	1018.856
17)	L7 Aroclor-1260	14.71	15.12	1603658	1085256	992.4 E	814.6 E
18)	L7 Aroclor-1260 {2}	14.91	15.27	321032	266980	336.7	354.5
19)	L7 Aroclor-1260 {3}	15.00	15.36	163779	110402	208.2	214.7
20)	L7 Aroclor-1260 {4}	15.35	15.74f	261477	407072	372.5	546.1 #
21)	L7 Aroclor-1260 {5}	15.88	16.18	485244	436651	222.6	310.1 #
	Sum Aroclor-1260			2835190	2306360	874.6	918.8
	Average Aroclor-1260					426.487	448.012

JM

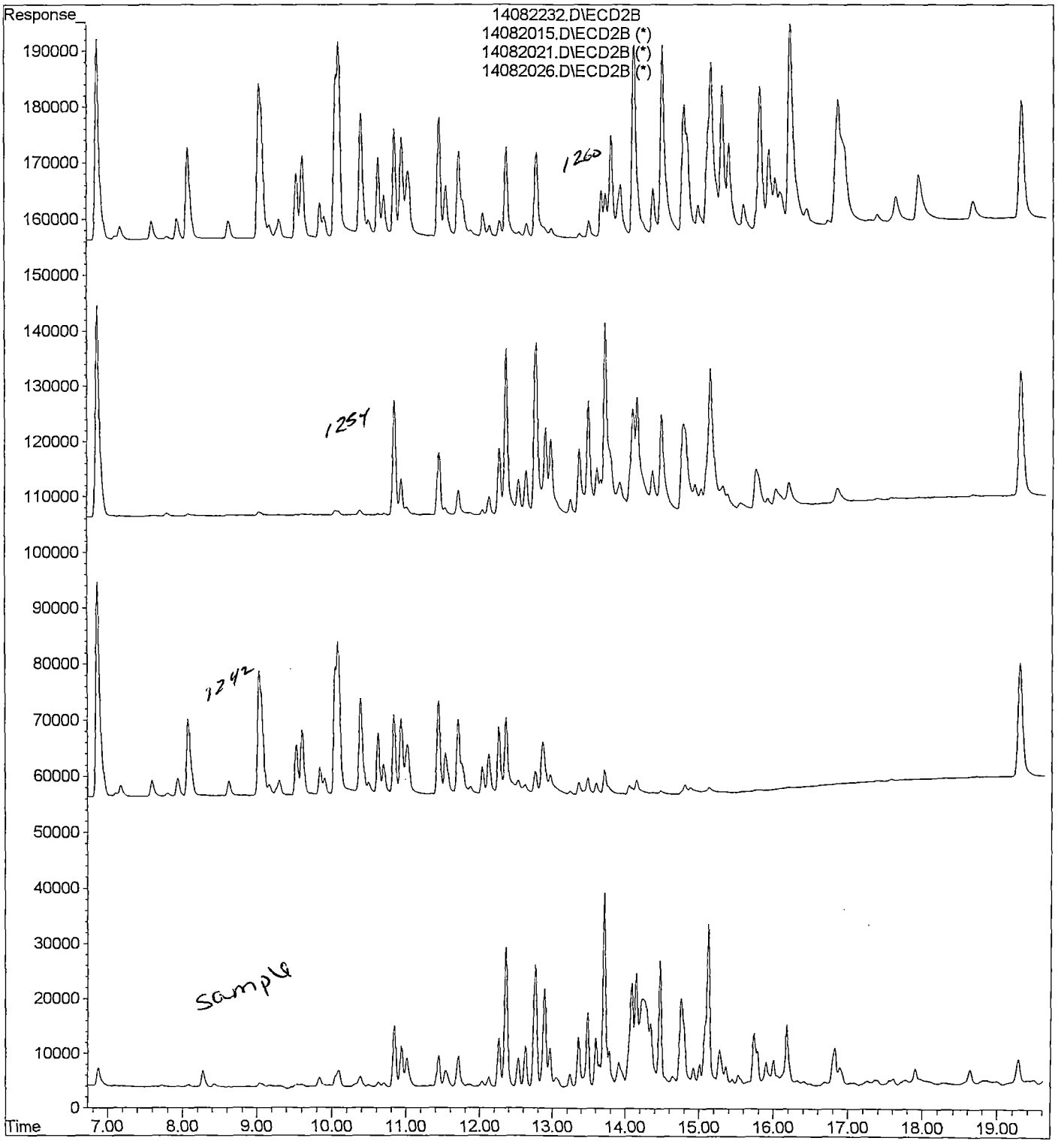
JM 9-10-01

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

File : F:\HPCHEM\HP\14\DATA\08_22_01\14082232.D
Operator : TLM
Acquired : 22 Aug 2001 22:47 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.14 *E00Z2 *
Misc Info : *EPA*30.1G/5.0ML*19
Vial Number: 32

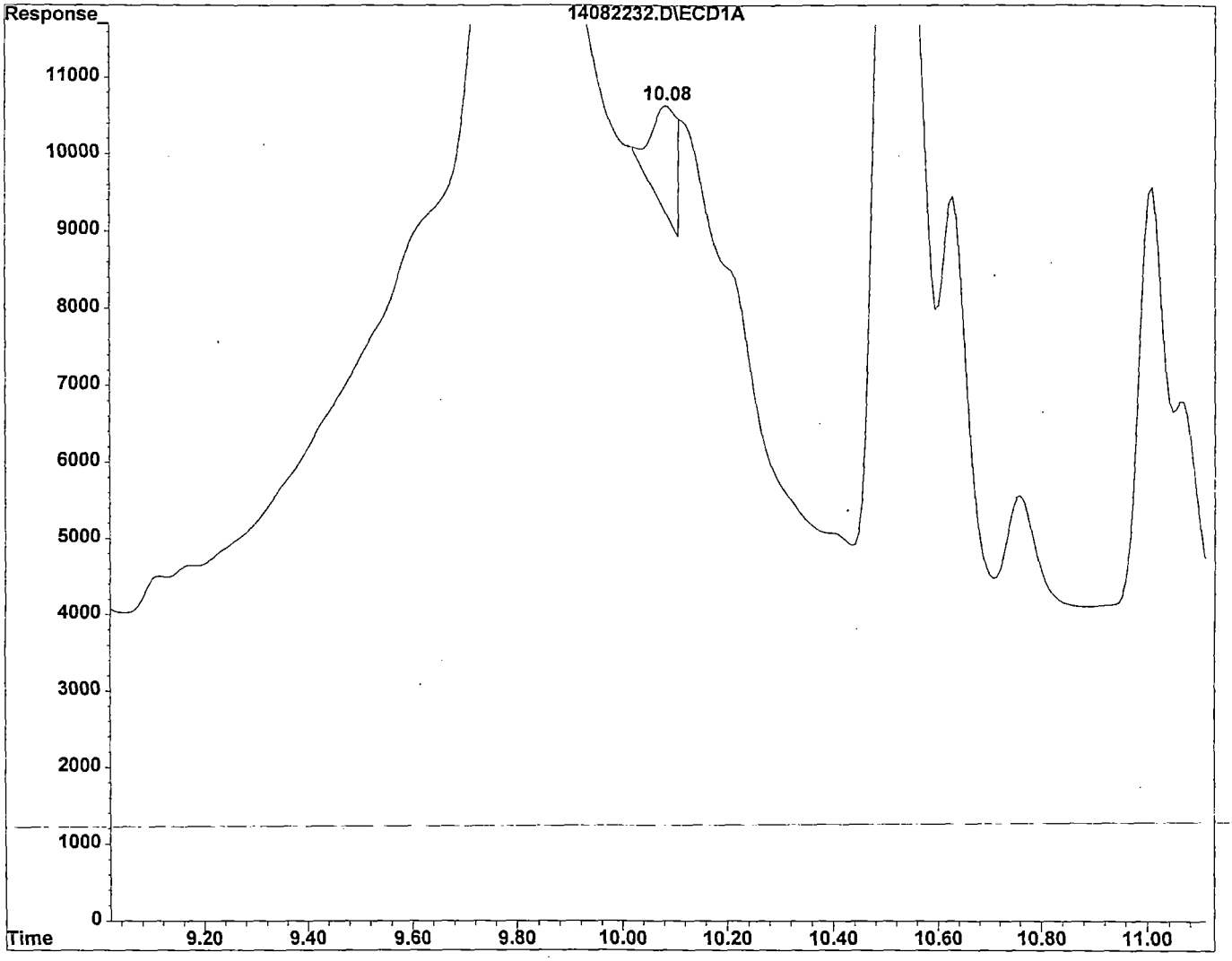


File : F:\HPCHEM\HP\14\DATA\08_22_01\14082232.D
Operator : TLM
Acquired : 22 Aug 2001 22:47 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.14 *E00Z2 *
Misc Info : *EPA*30.1G/5.0ML*19
Vial Number: 32



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082232.D
Date Acquired: 22 Aug 2001 22:47
Inst: HP_14 Operator ID: TLM
Name: 47166.14 *E00Z2 *
Misc: *EPA*30.1G/5.0ML*19
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 8:55 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 10.08min area: 46244 m

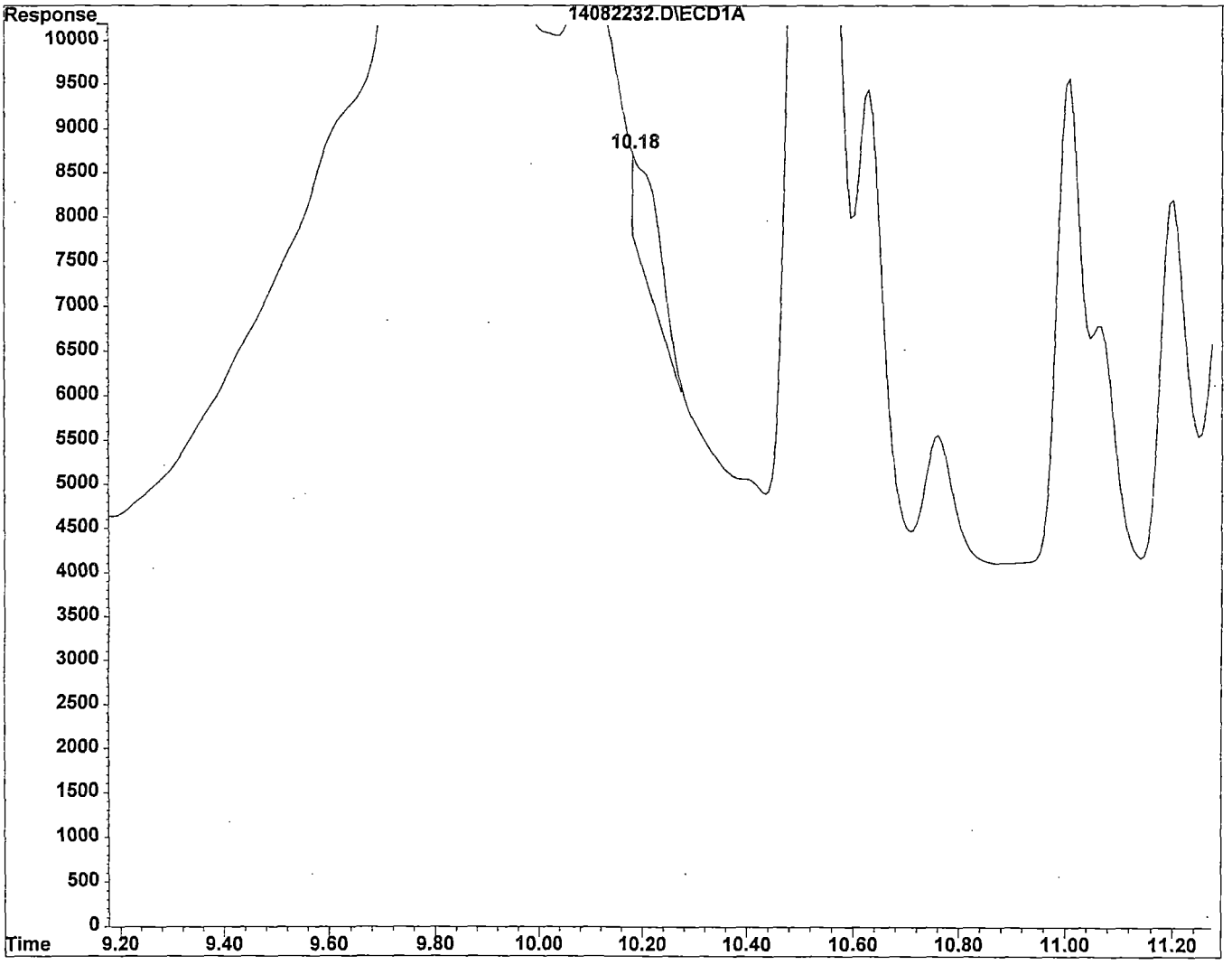
Integration Time Range: 10.02 - 10.11

JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082232.D
Report generated: Fri Sep 07 09:35:35 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082232.D
Date Acquired: 22 Aug 2001 22:47
Inst: HP_14 Operator ID: TLM
Name: 47166.14 *E00Z2 *
Misc: *EPA*30.1G/5.0ML*19
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 8:55 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {2} 10.18min area: 37884 m

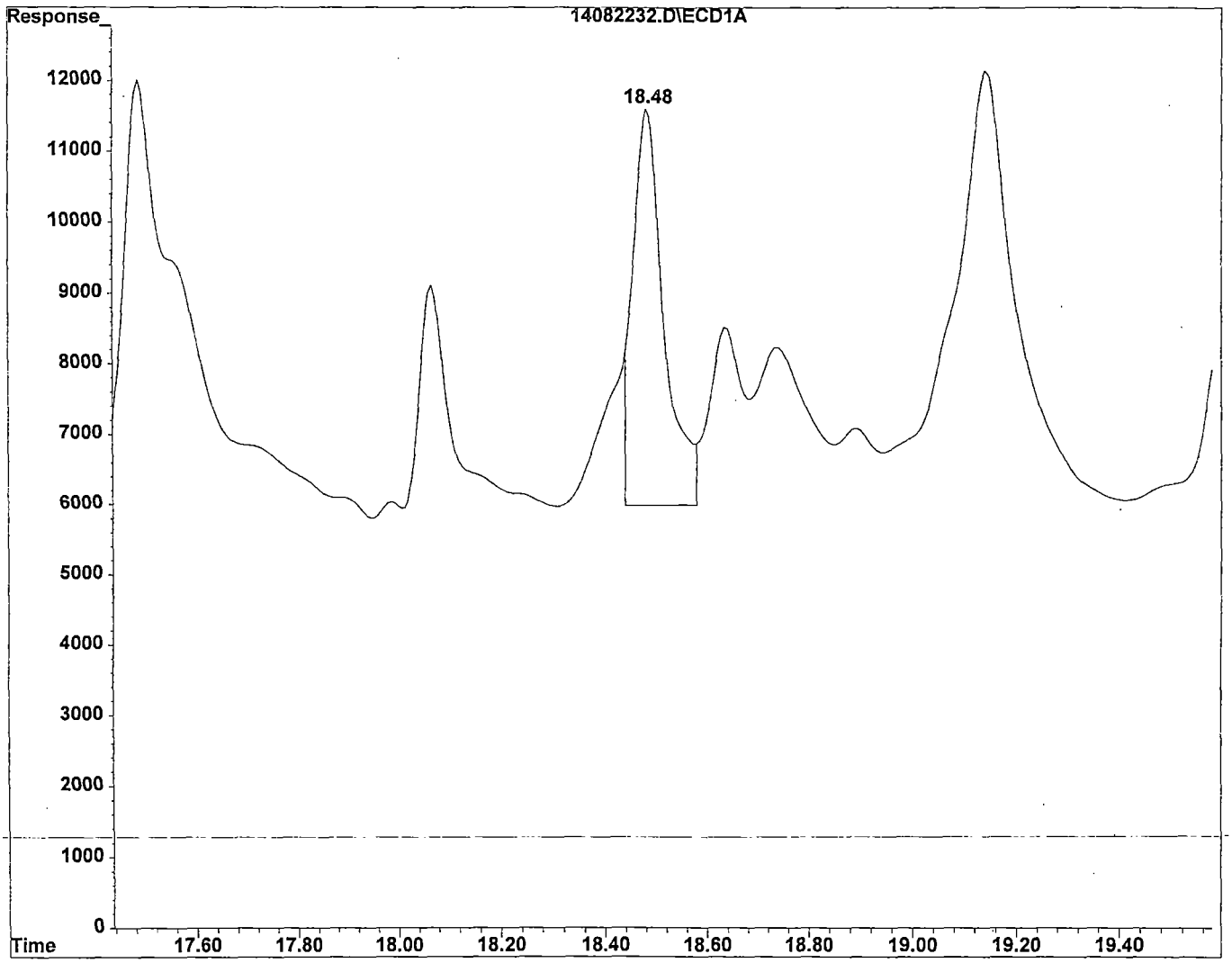
Integration Time Range: 10.18 - 10.27

JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082232.D
Report generated: Fri Sep 07 09:35:36 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082232.D
Date Acquired: 22 Aug 2001 22:47
Inst: HP_14 Operator ID: TLM
Name: 47166.14 *E00Z2 *
Misc: *EPA*30.1G/5.0ML*19
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 8:55 2001 Quant Results File: XPCBH20.RES



DCB 18.48min area: 239605 m

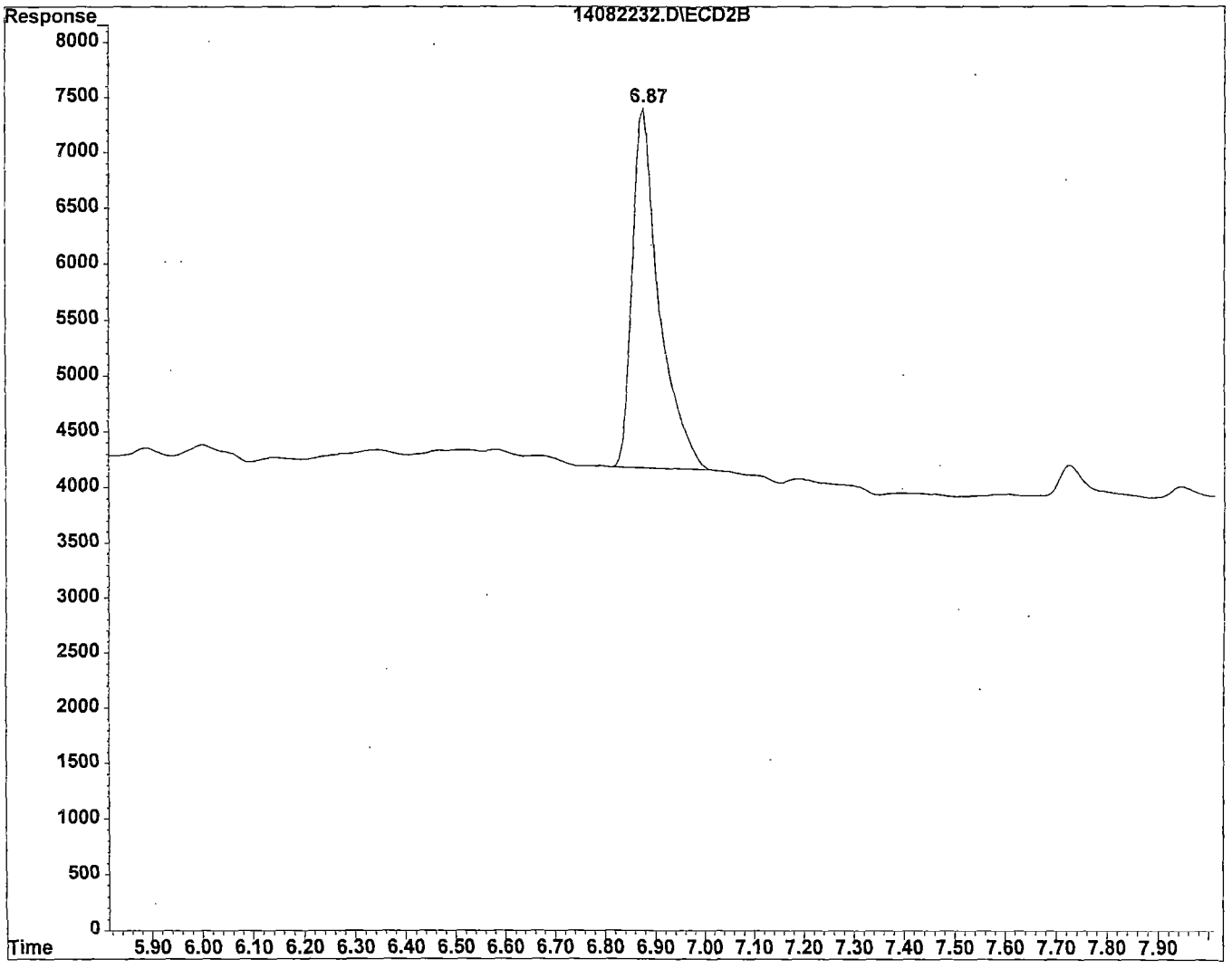
Integration Time Range: 18.44 - 18.58

TLM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082232.D
Report generated: Fri Sep 07 09:35:37 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082232.D
Date Acquired: 22 Aug 2001 22:47
Inst: HP_14 Operator ID: TLM
Name: 47166.14 *E00Z2 *
Misc: *EPA*30.1G/5.0ML*19
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 8:55 2001 Quant Results File: XPCBH20.RES



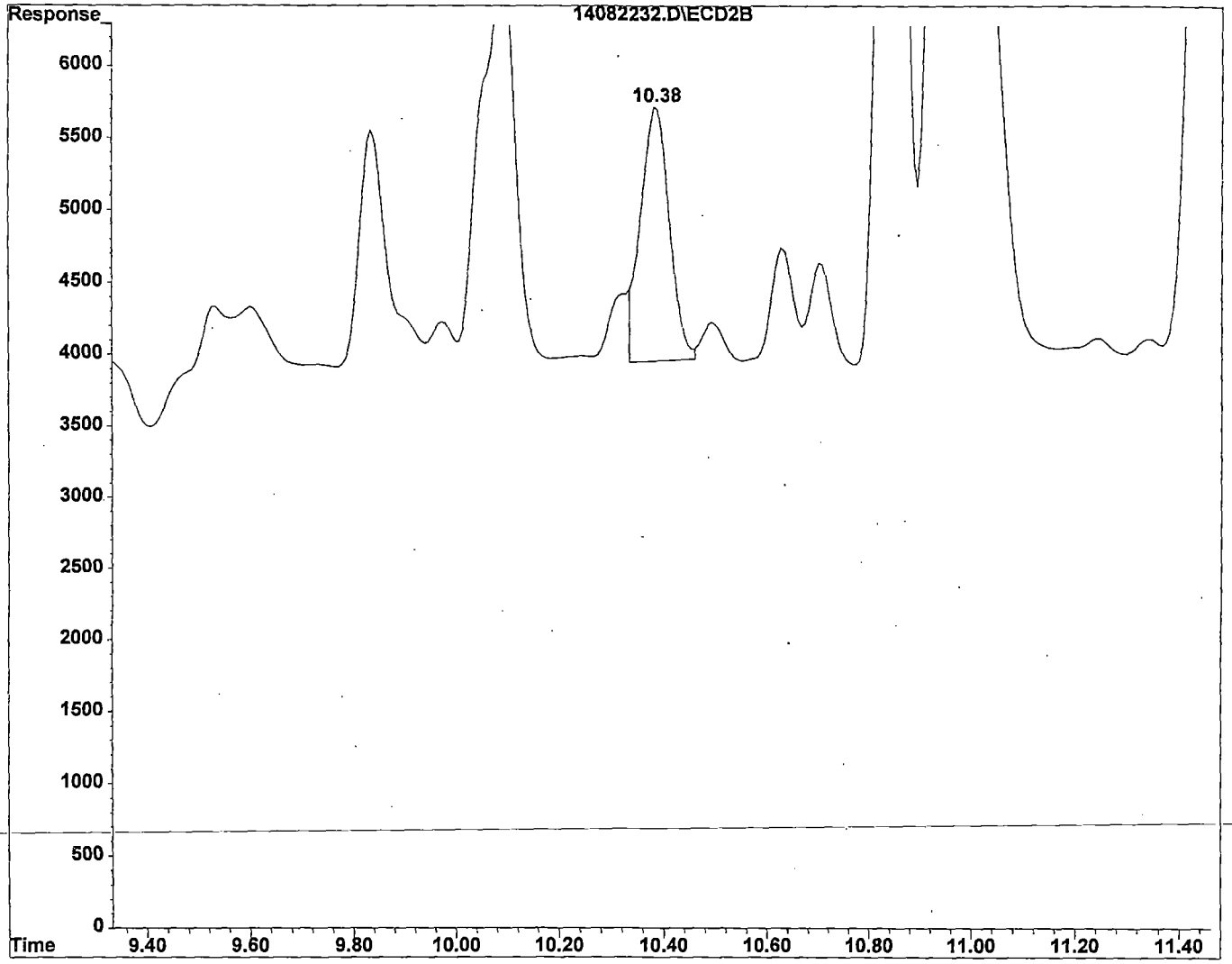
TCX #2 6.87min area: 119579 m

Integration Time Range: 6.81 - 7.01 JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082232.D
Report generated: Fri Sep 07 09:35:37 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082232.D
Date Acquired: 22 Aug 2001 22:47
Inst: HP_14 Operator ID: TLM
Name: 47166.14 *E00Z2 *
Misc: *EPA*30.1G/5.0ML*19
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 8:55 2001 Quant Results File: XPCBH20.RES



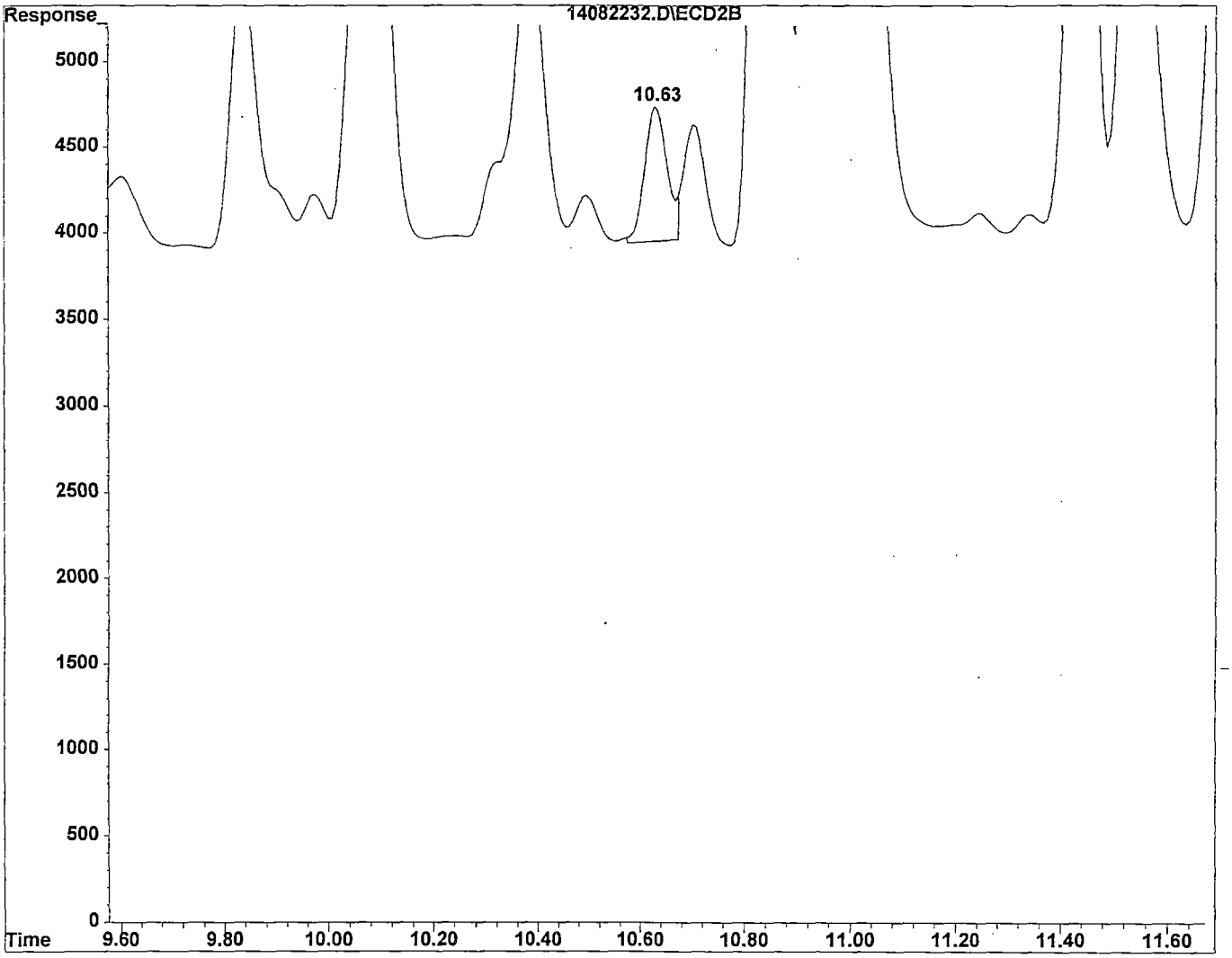
Aroclor-1242 #2 10.38min area: 67044 m

Integration Time Range: 10.33 - 10.46 JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082232.D
Report generated: Fri Sep 07 09:35:38 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082232.D
Date Acquired: 22 Aug 2001 22:47
Inst: HP_14 Operator ID: TLM
Name: 47166.14 *E00Z2 *
Misc: *EPA*30.1G/5.0ML*19
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 8:55 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {2} #2 10.63min area: 24184 m

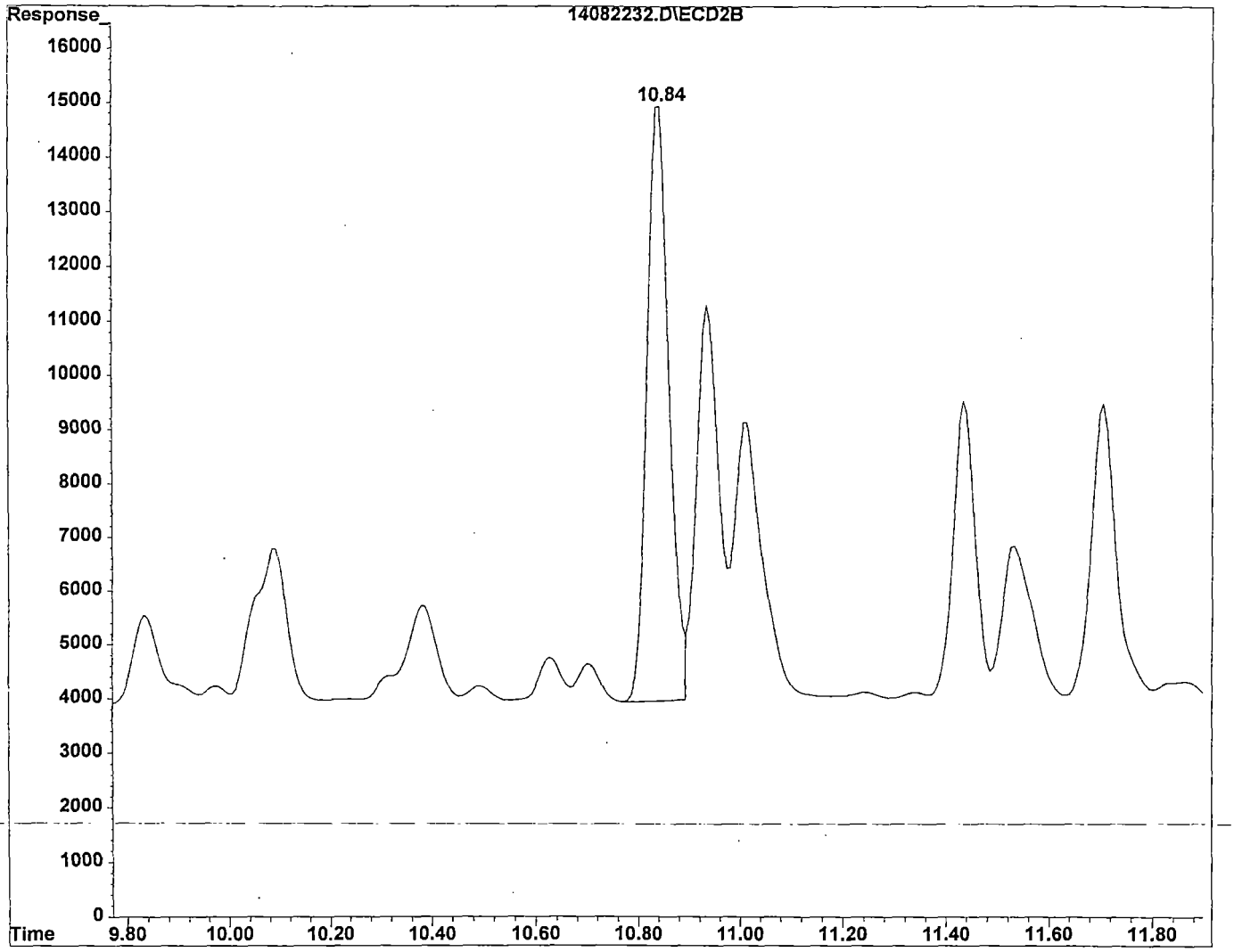
Integration Time Range: 10.58 - 10.67

JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082232.D
Report generated: Fri Sep 07 09:35:39 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082232.D
Date Acquired: 22 Aug 2001 22:47
Inst: HP_14 Operator ID: TLM
Name: 47166.14 *E00Z2 *
Misc: *EPA*30.1G/5.0ML*19
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 8:55 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {3} #2 10.84min area: 335752 m

Integration Time Range: 10.77 - 10.90

JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082232.D
Report generated: Fri Sep 07 09:35:39 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Z2DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.14DL

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

% Moisture: 19 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/07/01

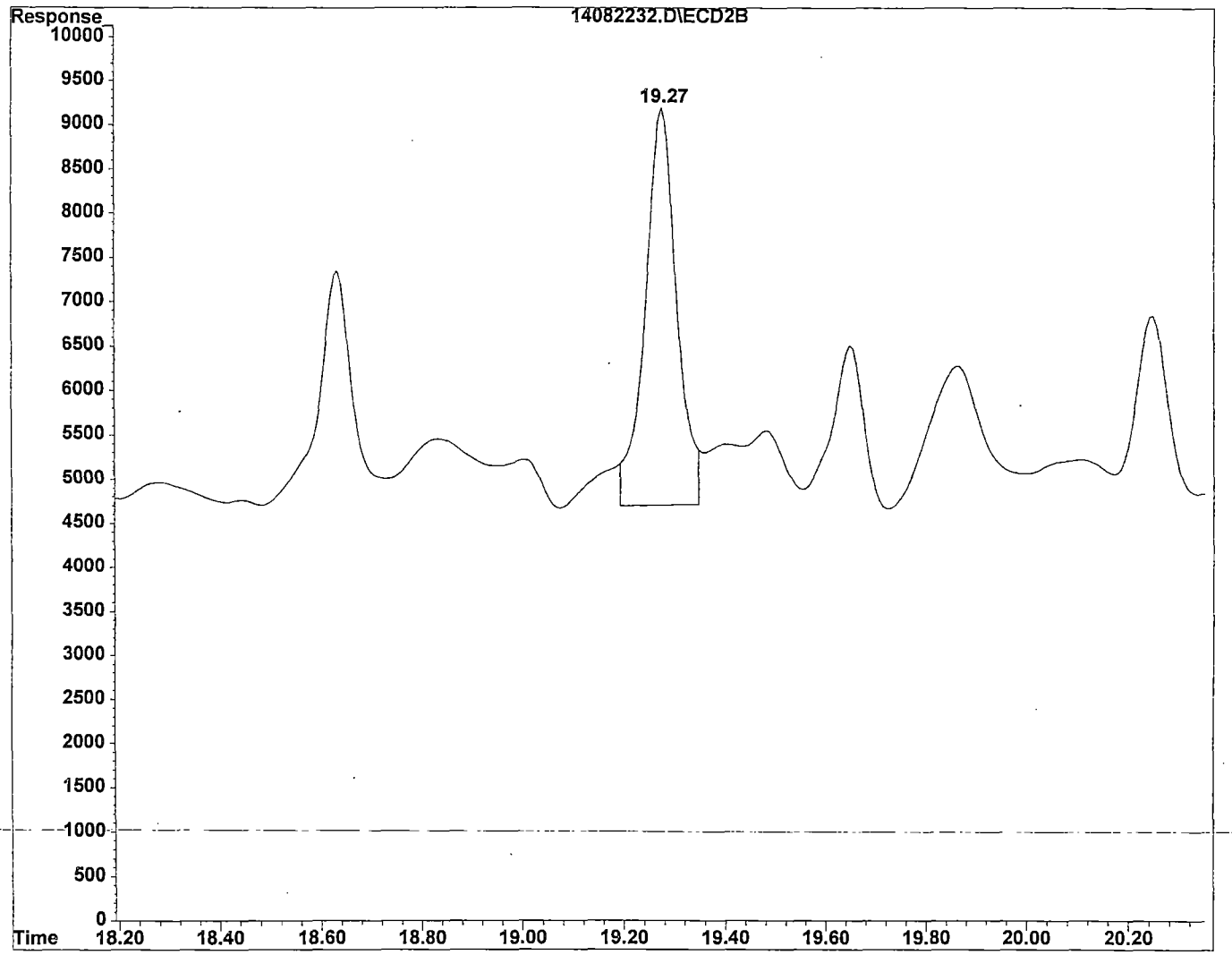
Injection Volume: 0.5(uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	410	U
11104-28-2	Aroclor-1221	410	U
11141-16-5	Aroclor-1232	410	U
53469-21-9	Aroclor-1242	520	D
12672-29-6	Aroclor-1248	410	U
11097-69-1	Aroclor-1254	990	D
11096-82-5	Aroclor-1260	540	D
Surrogate amount spiked		8.20	

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082232.D
Date Acquired: 22 Aug 2001 22:47
Inst: HP_14 Operator ID: TLM
Name: 47166.14 *E00Z2 *
Misc: *EPA*30.1G/5.0ML*19
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 8:55 2001 Quant Results File: XPCBH20.RES



DCB #2 19.27min area: 193735 m

Integration Time Range: 19.19 - 19.35

TM 9-7-01

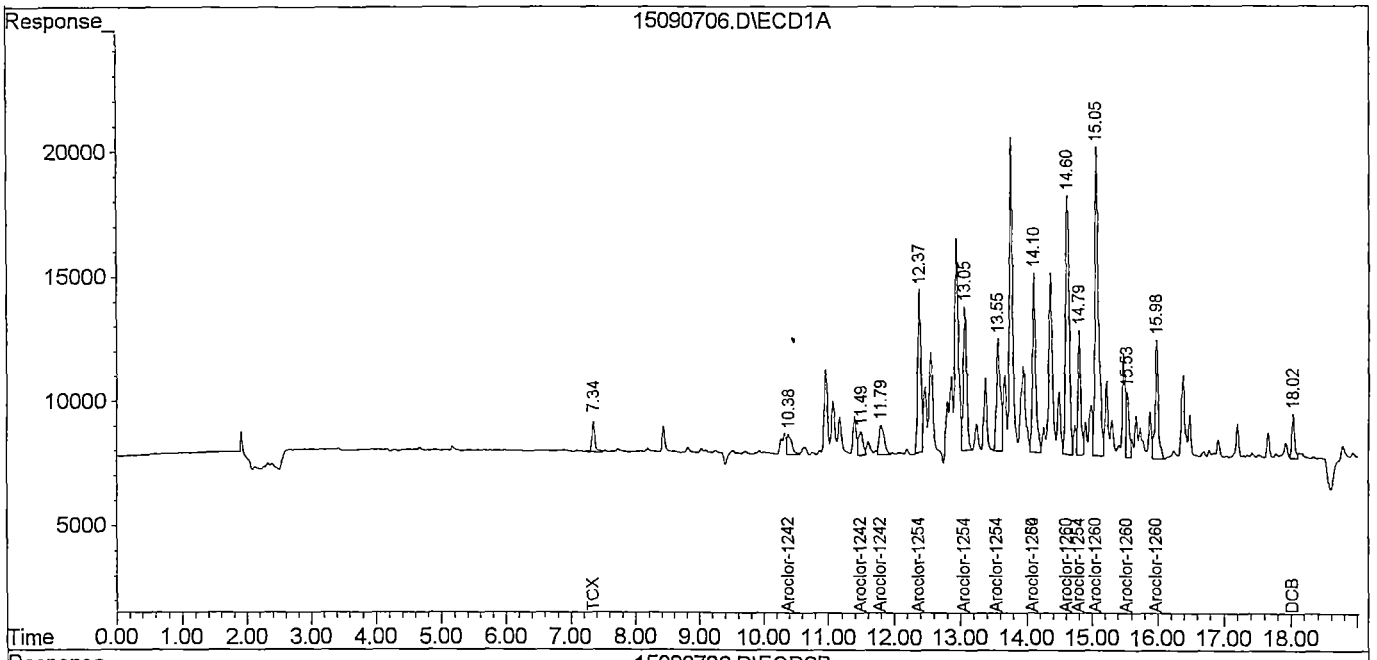
F:\HPCHEM\HP\14\DATA\08_22_01\14082232.D
Report generated: Fri Sep 07 09:35:40 2001

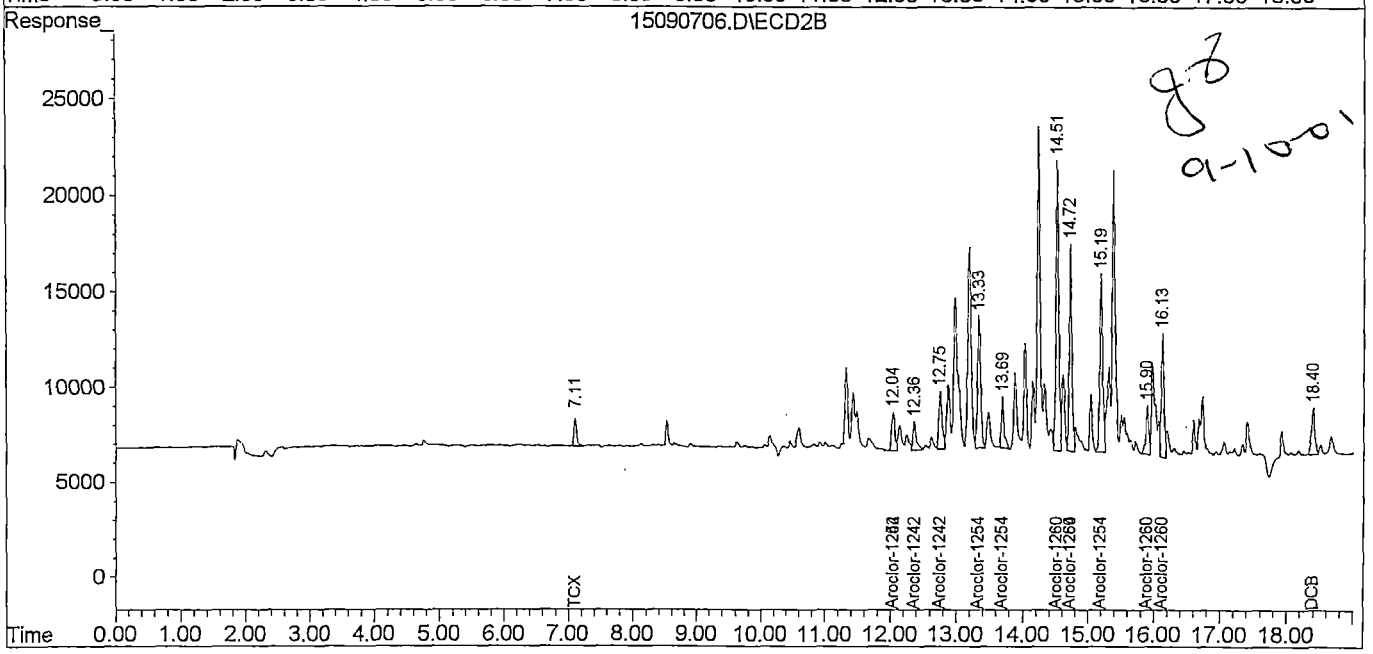
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_07_01\15090706.D\ECD1A.CH Vial: 59
Signal #2 : F:\HPCHEM\HP\15\DATA\09_07_01\15090706.D\ECD2B.CH
Acq On : 07 Sep 2001 15:08 Operator: DDC
Sample : 47166.14DL *E00Z2DL * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*19 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 8 8:40 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Fri Sep 07 16:29:03 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





gb
9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_07_01\15090706.D\ECD1A.CH Vial: 59
Signal #2 : F:\HPCHEM\HP\15\DATA\09_07_01\15090706.D\ECD2B.CH
Acq On : 07 Sep 2001 15:08 Operator: DDC
Sample : 47166.14DL *E00Z2DL * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*19 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 8 8:40 2001 Quant Results File: XPCBI04.RES

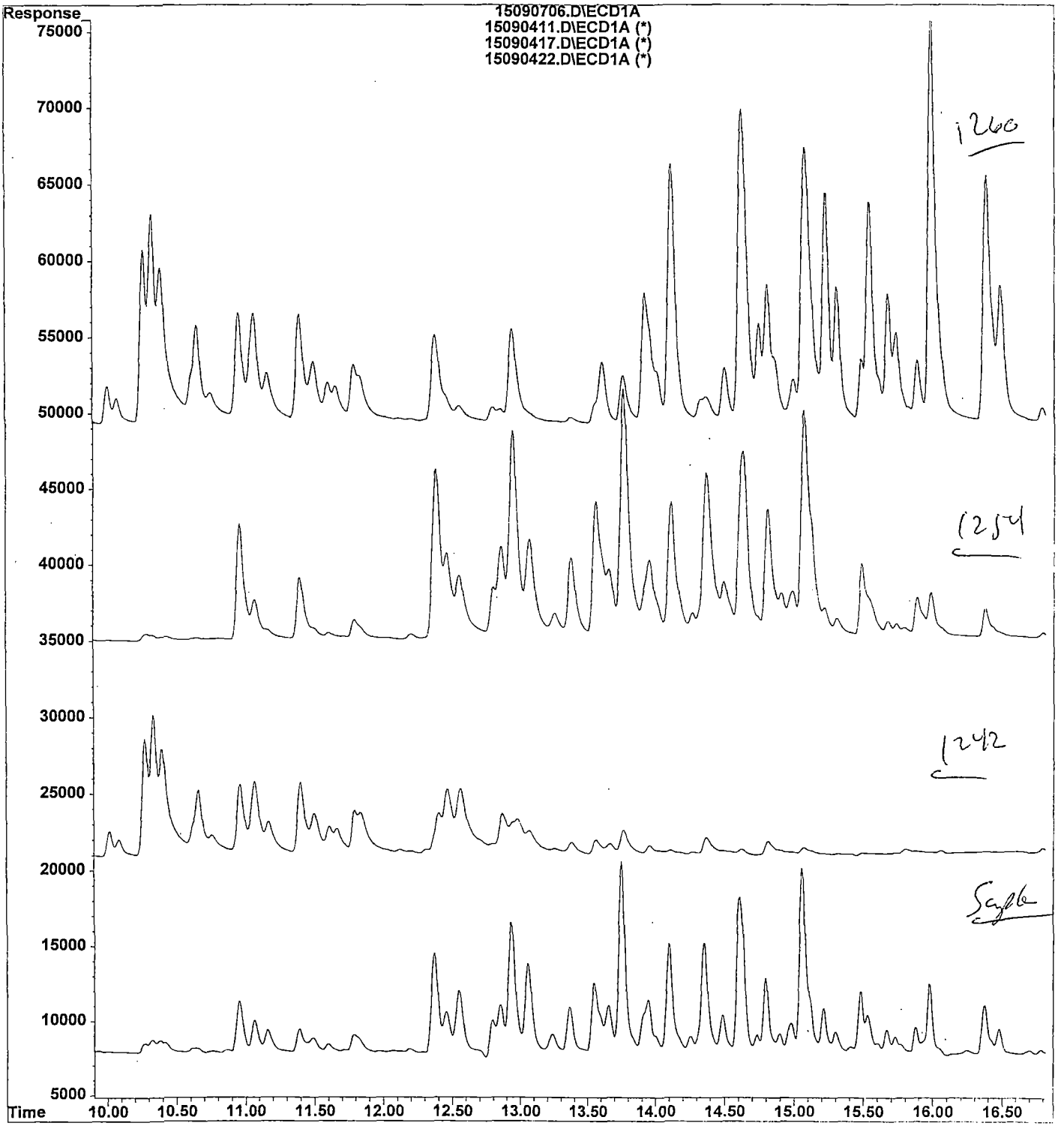
Method : F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Fri Sep 07 16:29:03 2001
Response via : Initial Calibration

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	7.35	7.11	41482	46093	7.383	7.048	
	Spiked Amount 8.203			Recovery	=	90.00%	85.92%	
22)	S DCB	18.02	18.40	53494	89473	9.098	13.3	#
	Spiked Amount 8.203			Recovery	=	110.91%	162.13%	
	Target Compounds:							
9)	L4 Aroclor-1242 {3}	10.38	12.04	45468	68434	214.0	488.5	#
10)	L4 Aroclor-1242 {4}	11.49	12.37	42292	54415	603.1	661.6	
11)	L4 Aroclor-1242 {5}	11.79f	12.76	66123	107087	739.8	664.2	
	Sum Aroclor-1242			153883	229935	1556.8	1814.2	
	Average Aroclor-1242					518.938	604.747	
12)	L6 Aroclor-1254	12.37	12.04	223942	68434	970.7	673.3	#
13)	L6 Aroclor-1254 {2}	13.06	13.34	214353	234189	1213.2	1379.4	
14)	L6 Aroclor-1254 {3}	13.55	13.69	181357	79080	815.1	509.9	#
15)	L6 Aroclor-1254 {4}	14.10	14.72	256348	310373	1218.5	1351.8	
16)	L6 Aroclor-1254 {5}	14.80	15.19	156492	286251	878.9	1028.8	
	Sum Aroclor-1254			1032492	978327	5096.4	4943.2	
	Average Aroclor-1254					1019.284	988.635	
17)	L7 Aroclor-1260	14.10	0.00	256348	0	648.2	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.61	14.52	410963	457858	797.9	1097.7	#
19)	L7 Aroclor-1260 {3}	15.06	14.72	474611	310373	935.1	593.1	#
20)	L7 Aroclor-1260 {4}	15.53	15.90	83423	72095	266.3	228.1	
21)	L7 Aroclor-1260 {5}	15.98	16.13	158863	182181	258.7	237.7	
	Sum Aroclor-1260			1384207	1022506	11919.7	8845.8	
	Average Aroclor-1260					581.229	539.175	

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

File : F:\HPCHEM\HP\15\DATA\09_07_01\15090706.D
Operator : DDC
Acquired : 07 Sep 2001 15:08 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 47166.14
Misc Info :
Vial Number: 59



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Z3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.15

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

% Moisture: 15 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	39	UJ
11104-28-2	Aroclor-1221	39	UJ
11141-16-5	Aroclor-1232	39	UJ
53469-21-9	Aroclor-1242	130	J ~~P~~
12672-29-6	Aroclor-1248	39	UJ
11097-69-1	Aroclor-1254	440	DJ ~~E~~
11096-82-5	Aroclor-1260	200	J
Surrogate amount spiked		7.82	

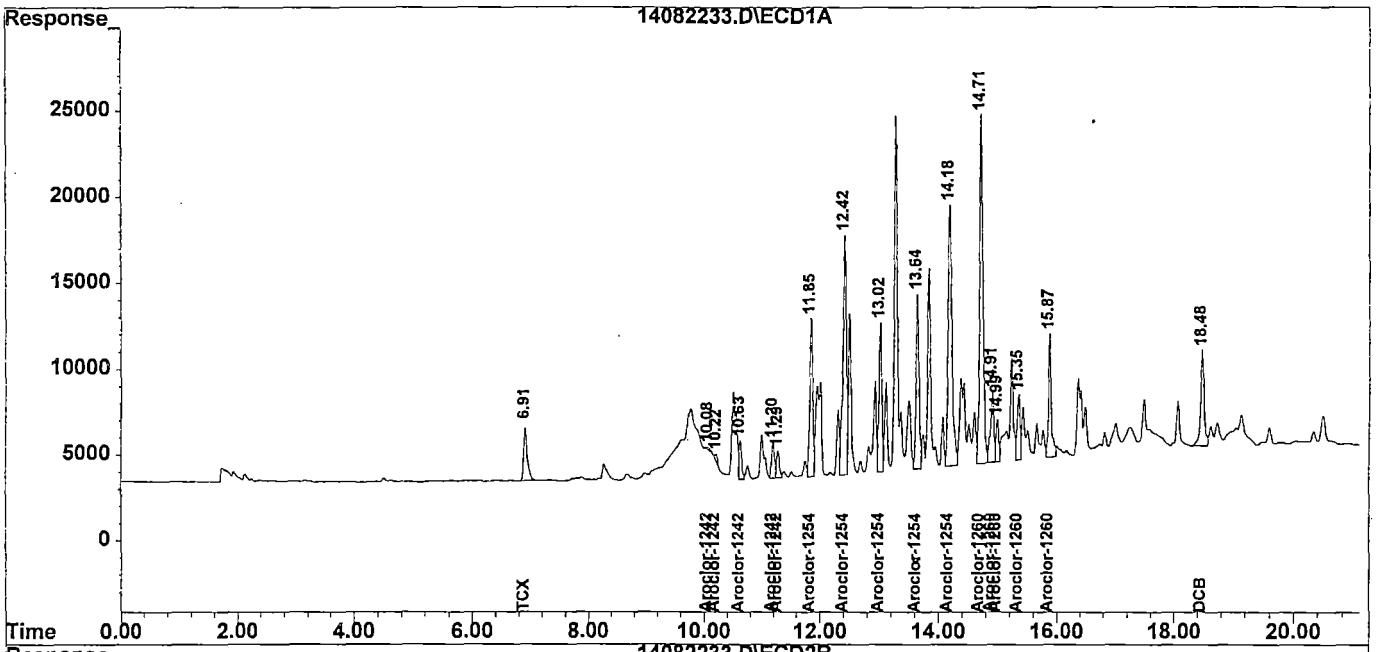
TBS 10-4-01 apply this results

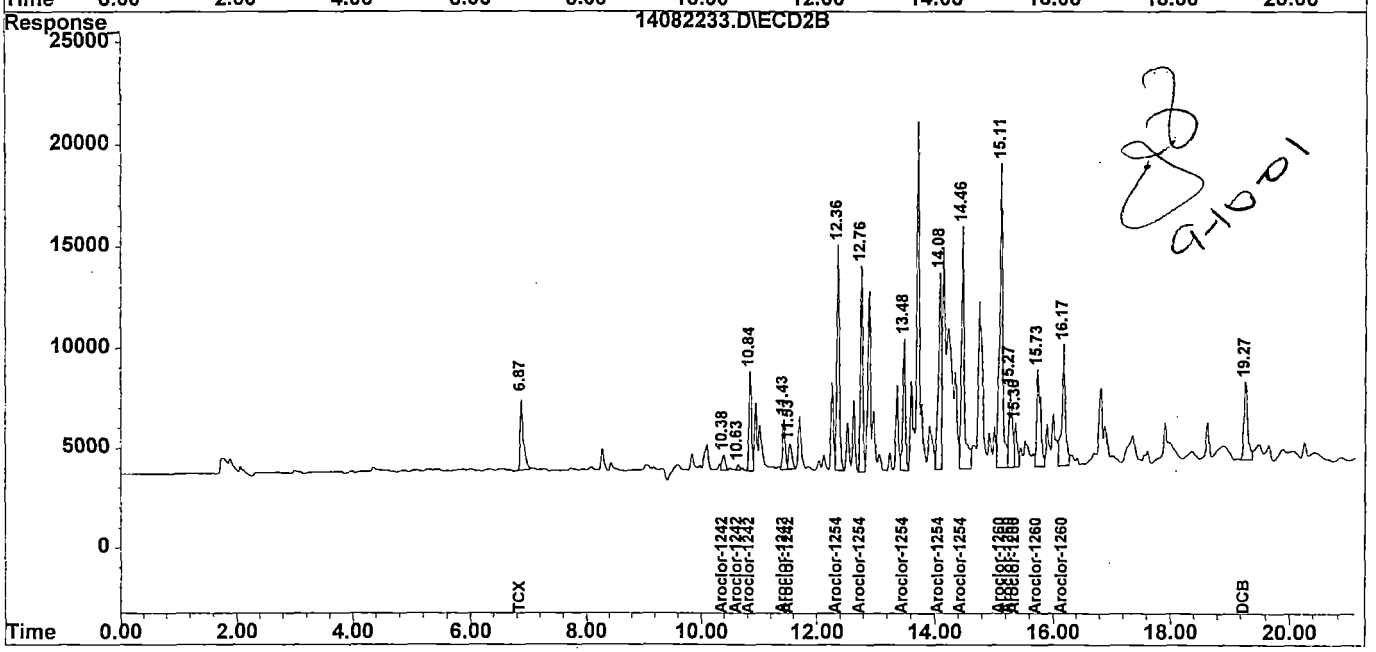
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082233.D\ECD1A.CH Vial: 33
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082233.D\ECD2B.CH
Acq On : 22 Aug 2001 23:11 Operator: TLM
Sample : 47166.15 *E00Z3 * Inst : HP_14
Misc : *EPA*30.1G/5.0ML*15 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 8:59 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082233.D\ECD1A.CH Vial: 33
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082233.D\ECD2B.CH
Acq On : 22 Aug 2001 23:11 Operator: TLM
Sample : 47166.15 *E00Z3 * Inst : HP_14
Misc : *EPA*30.1G/5.0ML*15 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 8:59 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

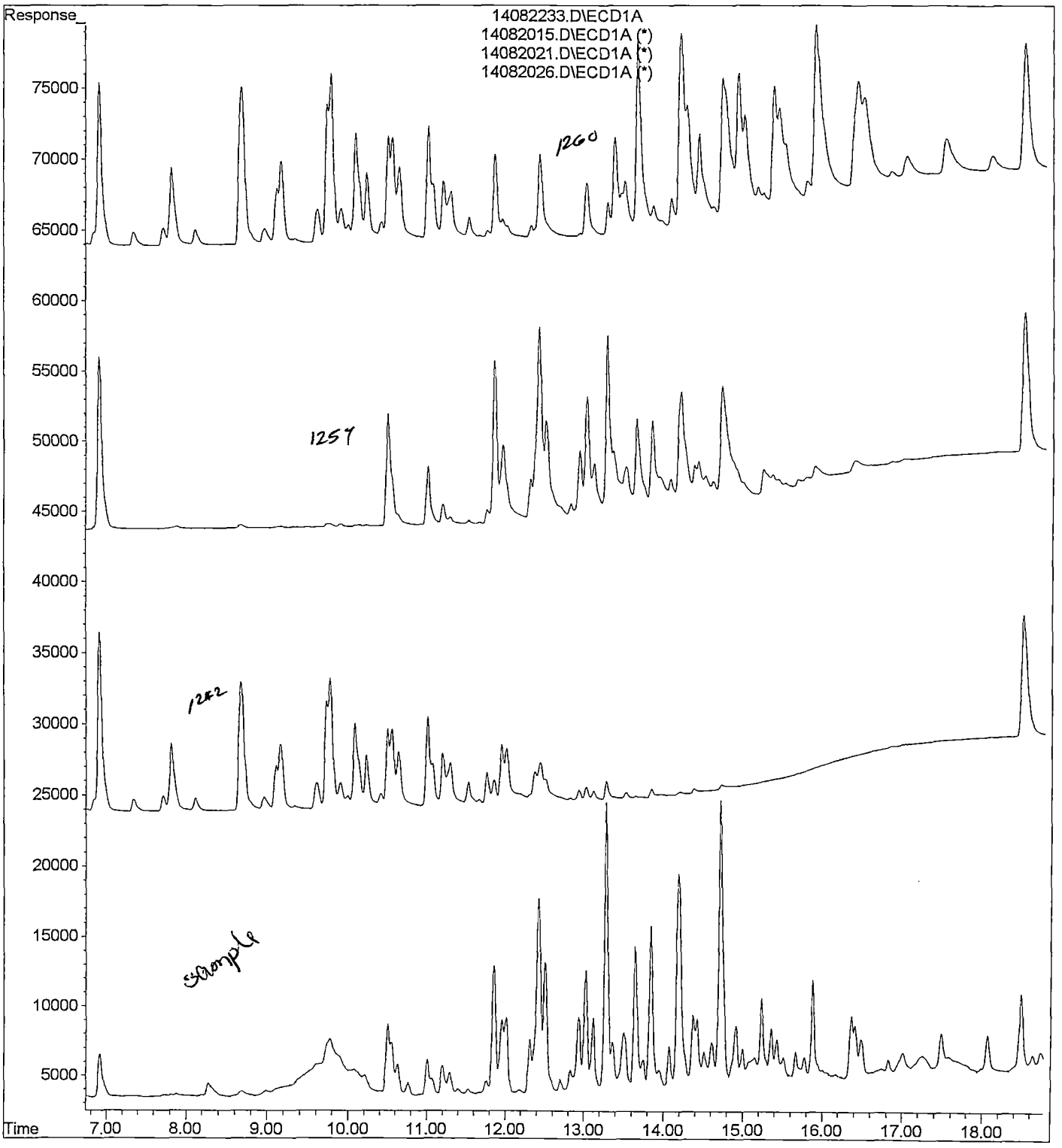
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
System Monitoring Compounds:						
1) S TCX	6.91	6.87	131197	143141	4.985	5.951m
Spiked Amount 7.817			Recovery	=	63.77%	76.13%
22) S DCB	18.48	19.27	228557	164050	8.868	9.925m
Spiked Amount 7.817			Recovery	=	113.44%	126.97%
Target Compounds:						
7) L4 Aroclor-1242	10.07	10.38	5132	31280	7.728m	62.2m #
8) L4 Aroclor-1242 {2}	10.21	10.63	11964	7856	32.9m	30.5m
9) L4 Aroclor-1242 {3}	10.63	10.84	80918	153320	196.5	450.5m #
10) L4 Aroclor-1242 {4}	11.20	11.44	74757	79117	258.2	203.5
11) L4 Aroclor-1242 {5}	11.29	11.54	60105	55152	162.6	238.1 #
Sum Aroclor-1242			232876	326725	658.0	984.8
Average Aroclor-1242					131.596	196.958
12) L6 Aroclor-1254	11.85	12.36	312549	346914	312.4	409.8 #
13) L6 Aroclor-1254 {2}	12.42	12.76	579494	299768	382.3	365.0
14) L6 Aroclor-1254 {3}	13.02	13.48	293180	195067	391.5	352.0
15) L6 Aroclor-1254 {4}	13.64	14.08	340322	318333	494.8	622.9 E#
16) L6 Aroclor-1254 {5}	14.18	14.46	683682	405312	634.6 E	680.3 E
Sum Aroclor-1254			2209228	1565394	2215.7	2430.1
Average Aroclor-1254					443.140	486.022
17) L7 Aroclor-1260	14.71	15.12	788365	568215	464.9	406.4
18) L7 Aroclor-1260 {2}	14.91	15.27	166351	157269	166.3	199.0
19) L7 Aroclor-1260 {3}	15.00	15.36	80006	68900	96.9	127.7 #
20) L7 Aroclor-1260 {4}	15.35	15.74f	122658	216283	166.5	276.5 #
21) L7 Aroclor-1260 {5}	15.88	16.17	242086	252652	105.8	171.0m #
Sum Aroclor-1260			1399465	1263319	391.0	461.5
Average Aroclor-1260					200.090	236.126

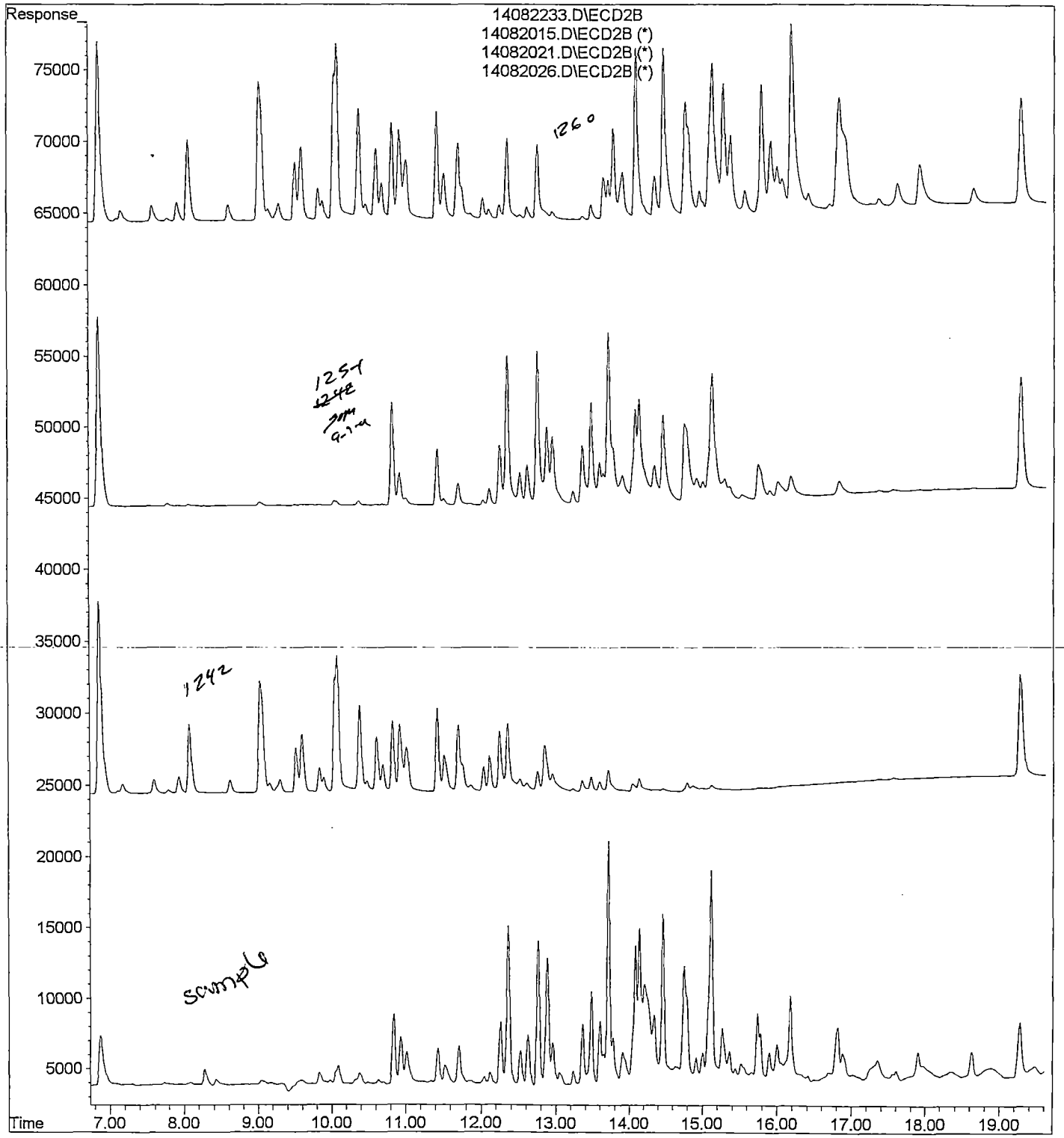
JM 9-7-01

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

File : F:\HPCHEM\HP\14\DATA\08_22_01\14082233.D
Operator : TLM
Acquired : 22 Aug 2001 23:11 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.15 *E00Z3 *
Misc Info : *EPA*30.1G/5.0ML*15
Vial Number: 33

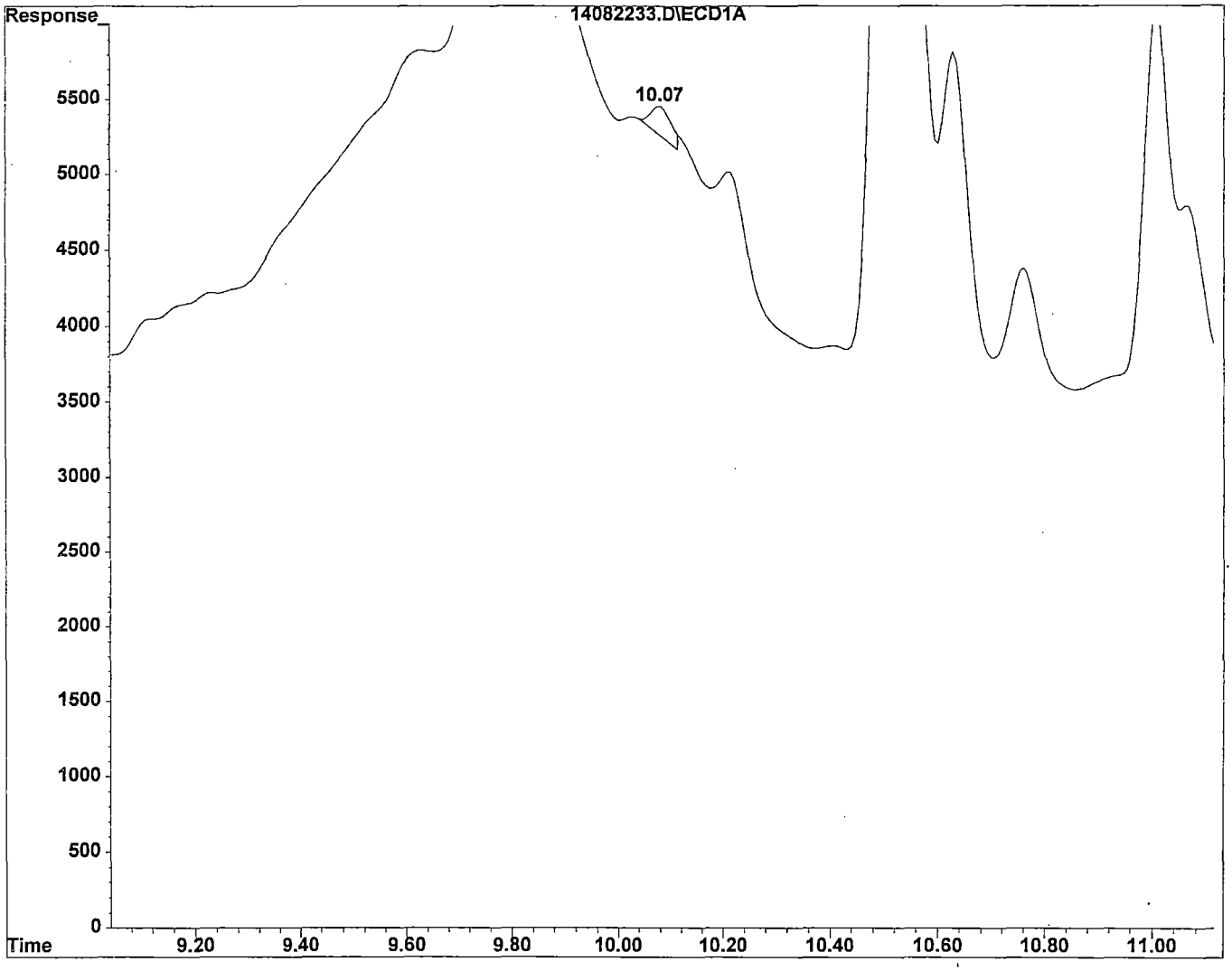


File : F:\HPCHEM\HP\14\DATA\08_22_01\14082233.D
Operator : TLM
Acquired : 22 Aug 2001 23:11 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.15 *E00Z3 *
Misc Info : *EPA*30.1G/5.0ML*15
Vial Number: 33



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082233.D
Date Acquired: 22 Aug 2001 23:11
Inst: HP_14 Operator ID: TLM
Name: 47166.15 *E00Z3 *
Misc: *EPA*30.1G/5.0ML*15
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 8:59 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 10.07min area: 5132 m

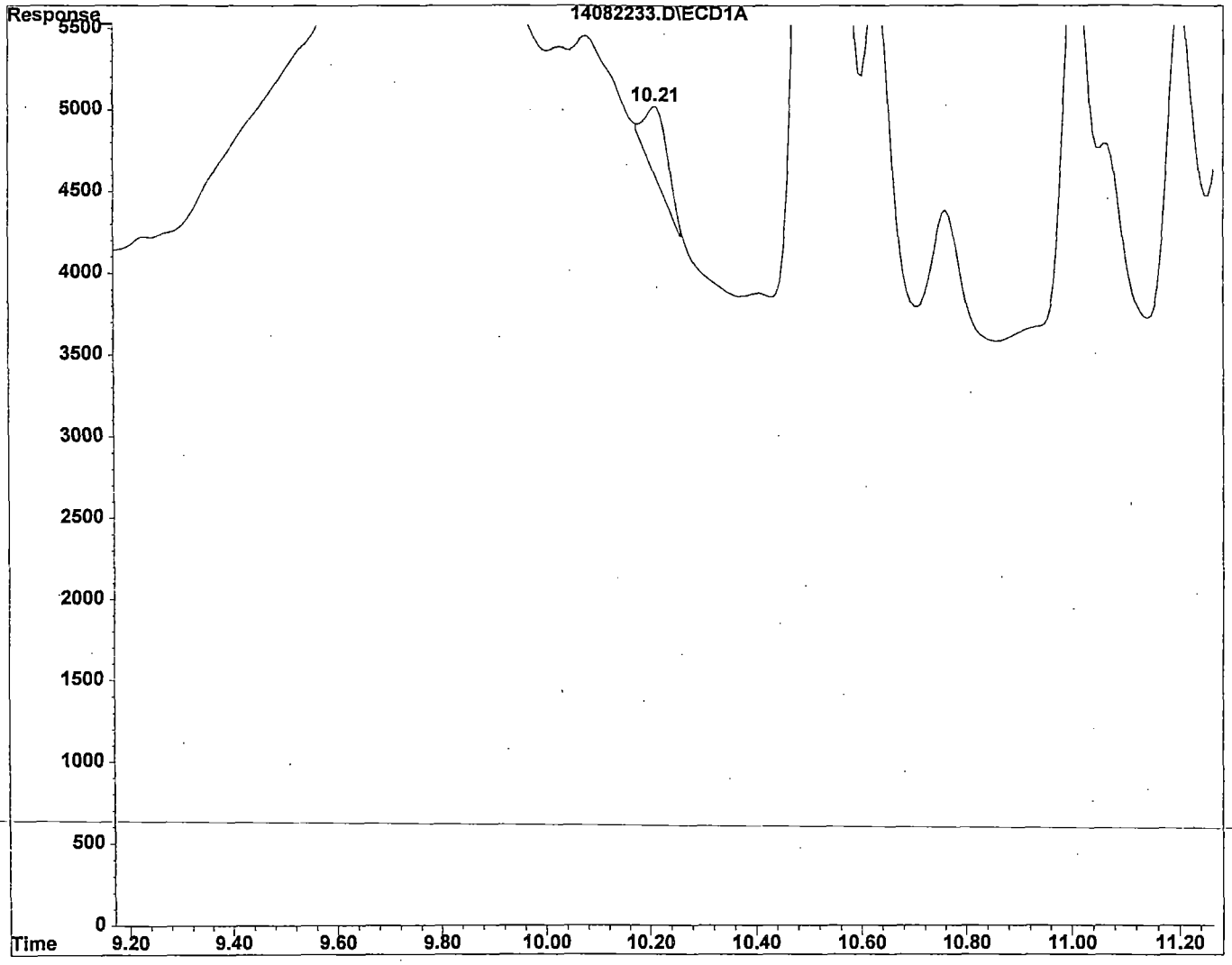
Integration Time Range: 10.04 - 10.11

JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082233.D
Report generated: Fri Sep 07 09:35:42 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082233.D
Date Acquired: 22 Aug 2001 23:11
Inst: HP_14 Operator ID: TLM
Name: 47166.15 *E00Z3 *
Misc: *EPA*30.1G/5.0ML*15
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 8:59 2001 Quant Results File: XPCBH20.RES



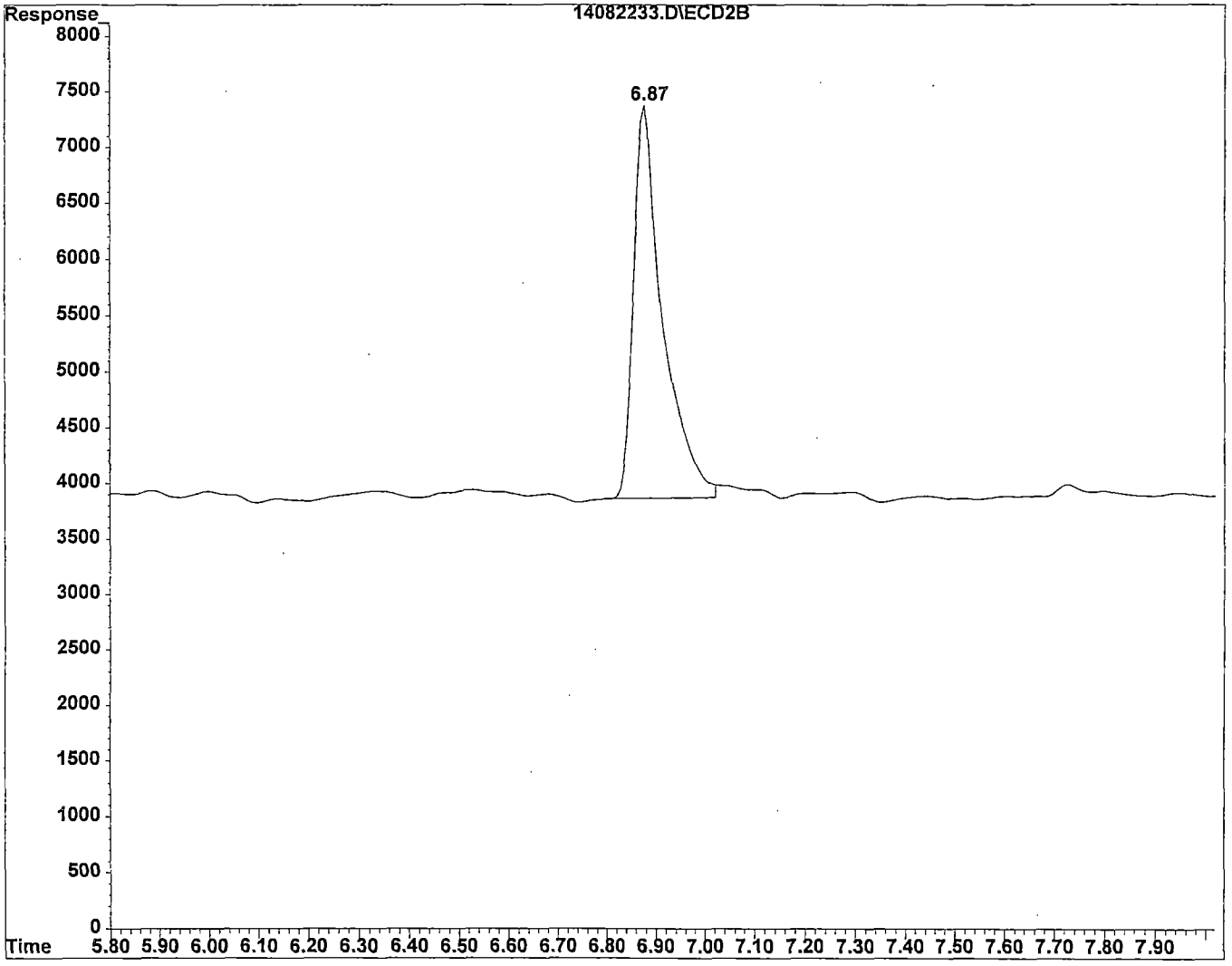
Aroclor-1242 {2} 10.21min area: 11964 m

Integration Time Range: 10.17 - 10.26 TM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082233.D
Report generated: Fri Sep 07 09:35:42 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082233.D
Date Acquired: 22 Aug 2001 23:11
Inst: HP_14 Operator ID: TLM
Name: 47166.15 *E00Z3 *
Misc: *EPA*30.1G/5.0ML*15
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 8:59 2001 Quant Results File: XPCBH20.RES



TCX #2 6.87min area: 143141 m

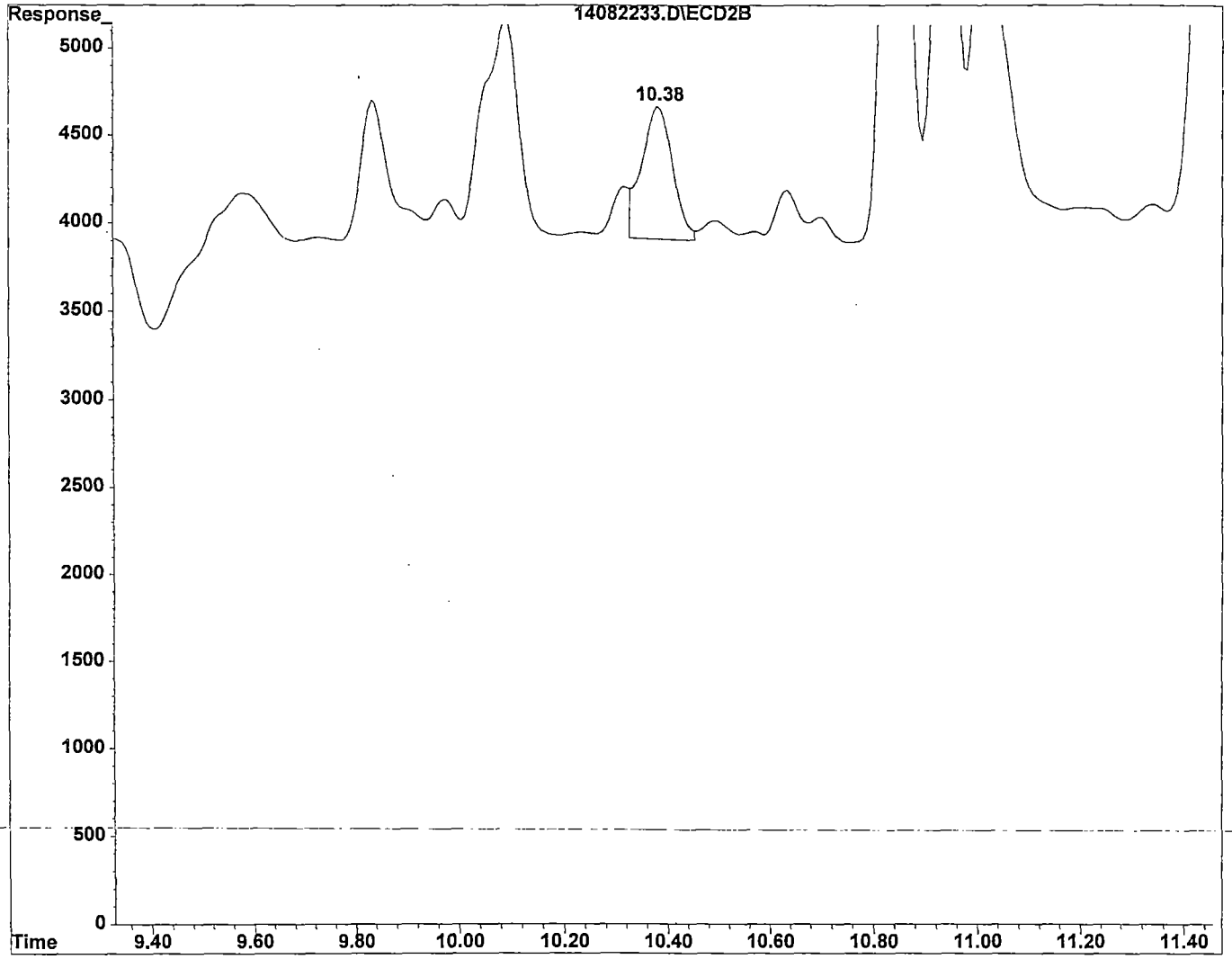
Integration Time Range: 6.80 - 7.02

JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082233.D
Report generated: Fri Sep 07 09:35:43 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082233.D
Date Acquired: 22 Aug 2001 23:11
Inst: HP_14 Operator ID: TLM
Name: 47166.15 *E00Z3 *
Misc: *EPA*30.1G/5.0ML*15
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 8:59 2001 Quant Results File: XPCBH20.RES



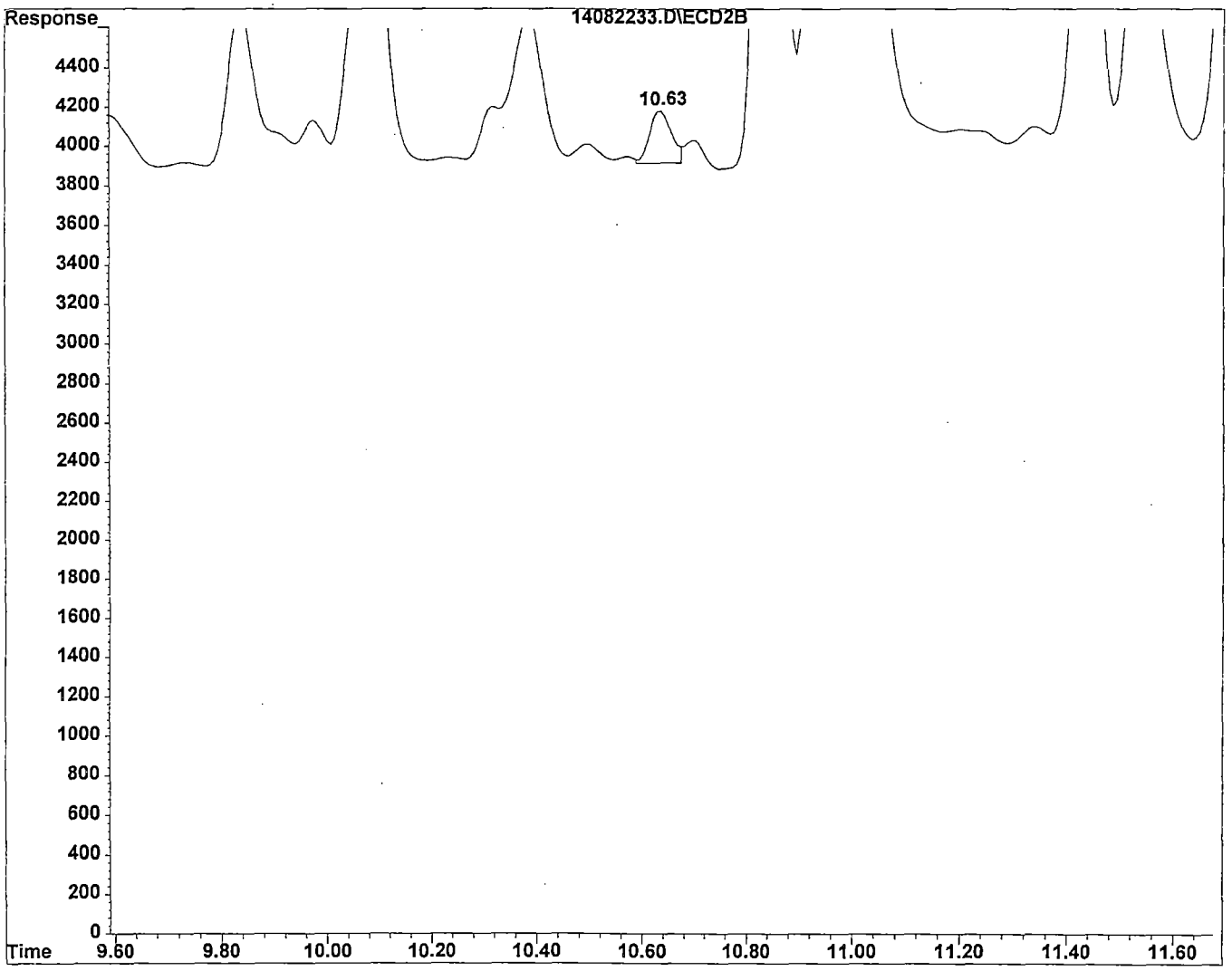
Aroclor-1242 #2 10.38min area: 31280 m

Integration Time Range: 10.33 - 10.45 JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082233.D
Report generated: Fri Sep 07 09:35:44 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082233.D
Date Acquired: 22 Aug 2001 23:11
Inst: HP_14 Operator ID: TLM
Name: 47166.15 *E00Z3 *
Misc: *EPA*30.1G/5.0ML*15
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 8:59 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {2} #2 10.63min area: 7856 m

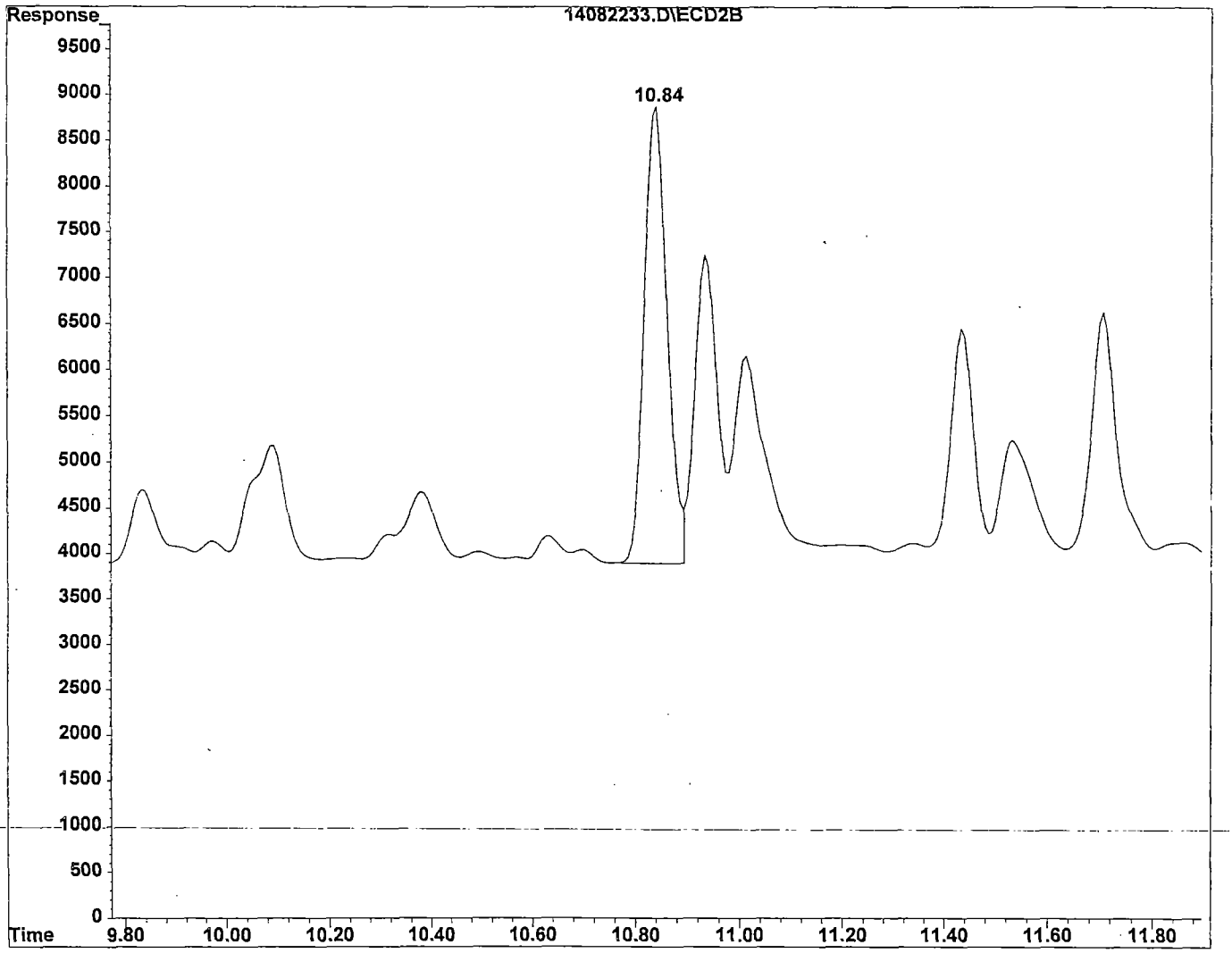
Integration Time Range: 10.59 - 10.67

JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082233.D
Report generated: Fri Sep 07 09:35:45 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082233.D
Date Acquired: 22 Aug 2001 23:11
Inst: HP_14 Operator ID: TLM
Name: 47166.15 *E00Z3 *
Misc: *EPA*30.1G/5.0ML*15
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 8:59 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {3} #2 10.84min area: 153320 m

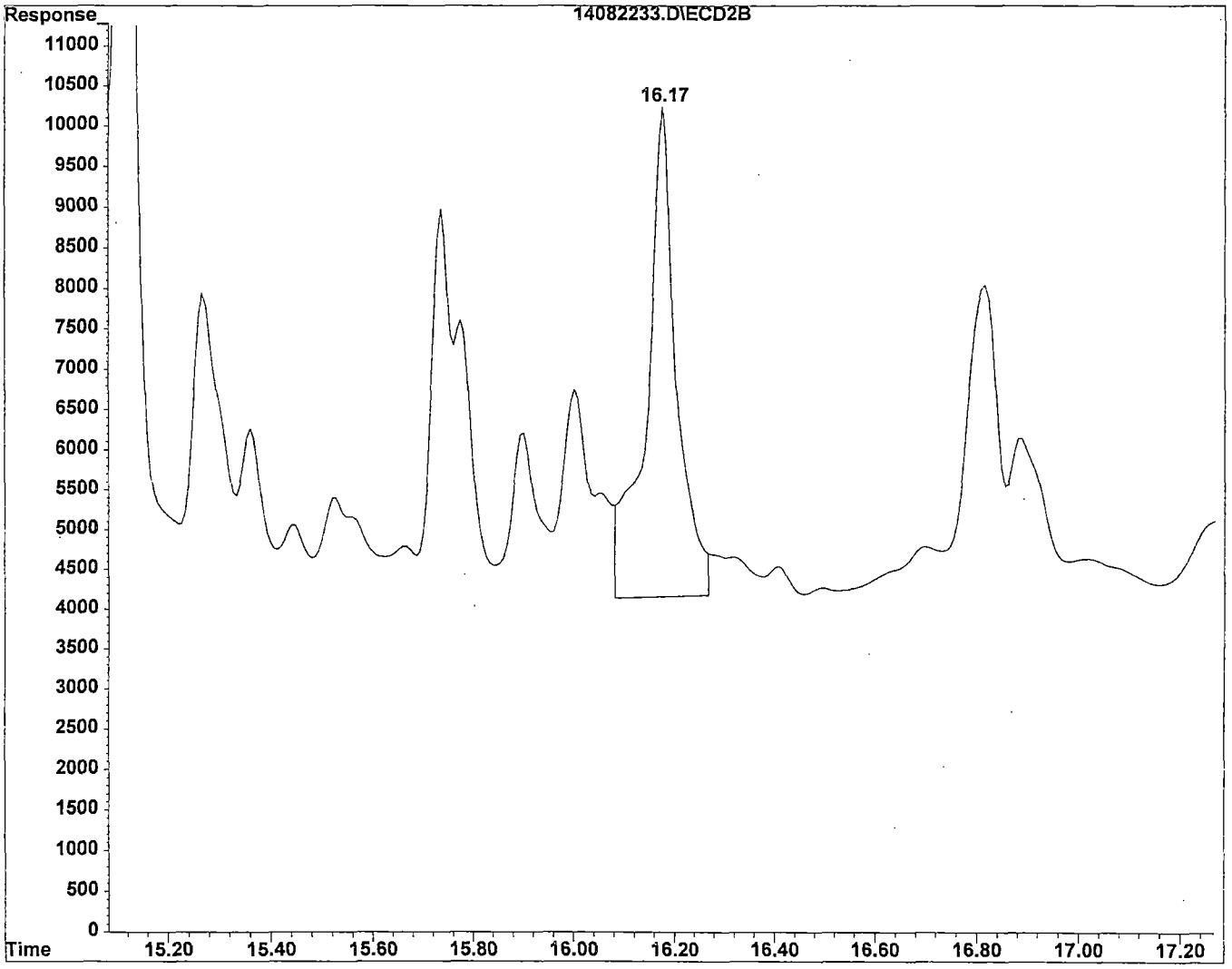
Integration Time Range: 10.77 - 10.89

JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082233.D
Report generated: Fri Sep 07 09:35:45 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082233.D
Date Acquired: 22 Aug 2001 23:11
Inst: HP_14 Operator ID: TLM
Name: 47166.15 *E00Z3 *
Misc: *EPA*30.1G/5.0ML*15
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 8:59 2001 Quant Results File: XPCBH20.RES



Aroclor-1260 {5} #2 16.17min area: 252652 m

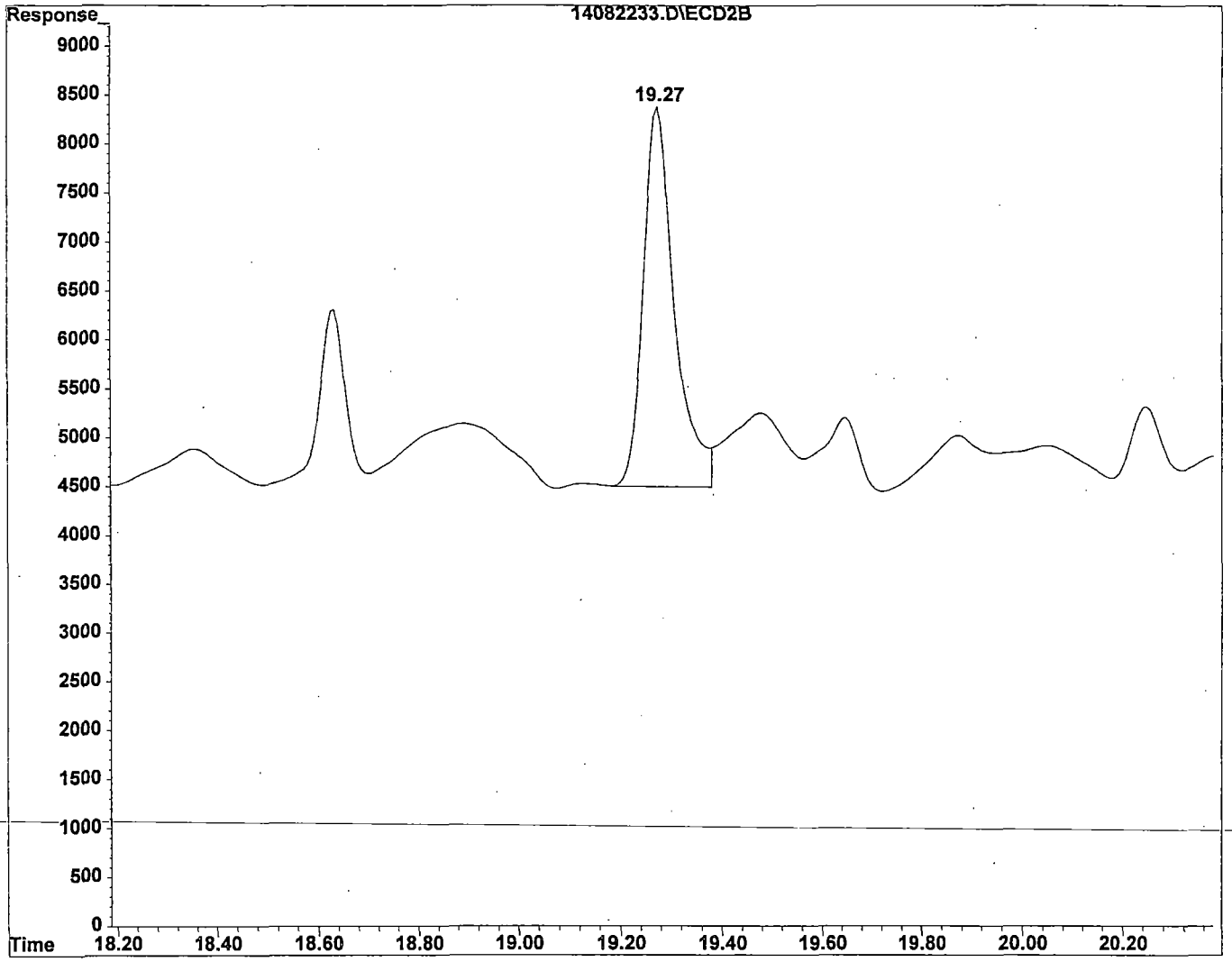
Integration Time Range: 16.08 - 16.27

TM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082233.D
Report generated: Fri Sep 07 09:35:46 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082233.D
Date Acquired: 22 Aug 2001 23:11
Inst: HP_14 Operator ID: TLM
Name: 47166.15 *E00Z3 *
Misc: *EPA*30.1G/5.0ML*15
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 8:59 2001 Quant Results File: XPCBH20.RES



DCB #2 19.27min area: 164050 m

Integration Time Range: 19.19 - 19.38

TM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082233.D
Report generated: Fri Sep 07 09:35:47 2001

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Z3DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.15DL

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

% Moisture: 15 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/07/01

Injection Volume: 0.5(uL) Dilution Factor: 5.0

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

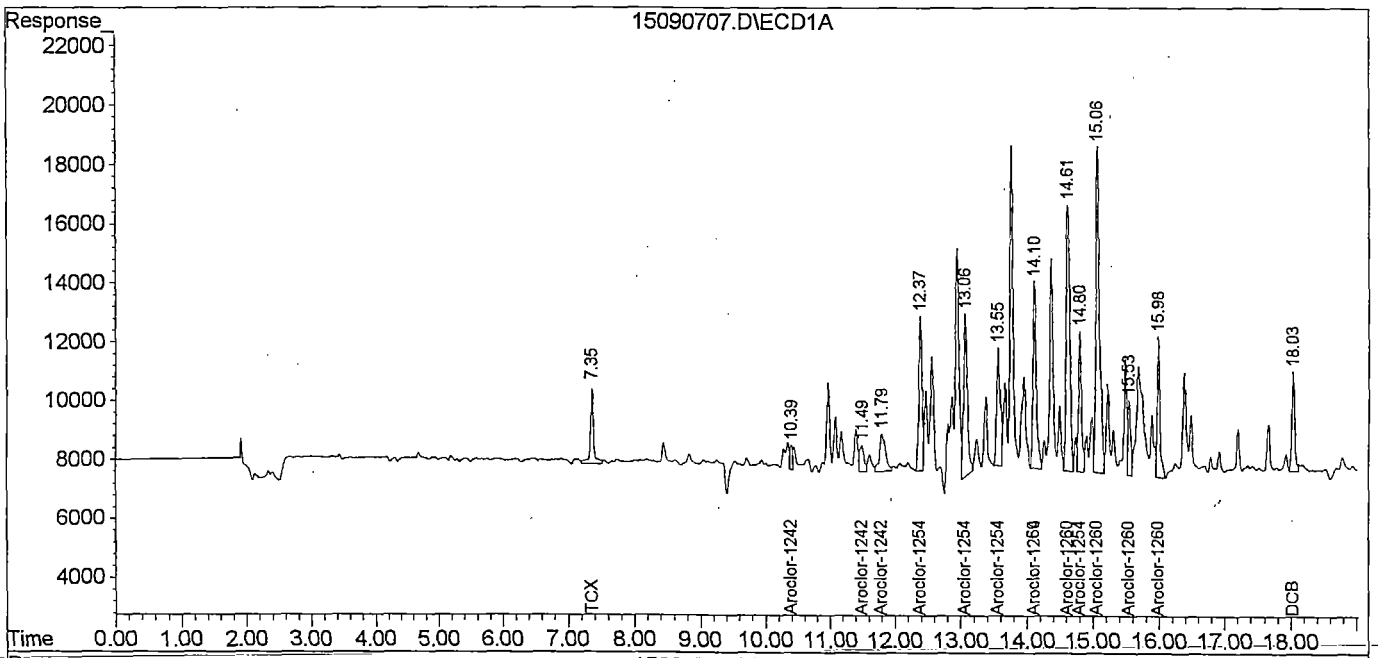
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	190	U
11104-28-2	Aroclor-1221	190	U
11141-16-5	Aroclor-1232	190	U
53469-21-9	Aroclor-1242	260	D
12672-29-6	Aroclor-1248	190	U
11097-69-1	Aroclor-1254	440	D
11096-82-5	Aroclor-1260	240	D
	Surrogate amount spiked	7.82	

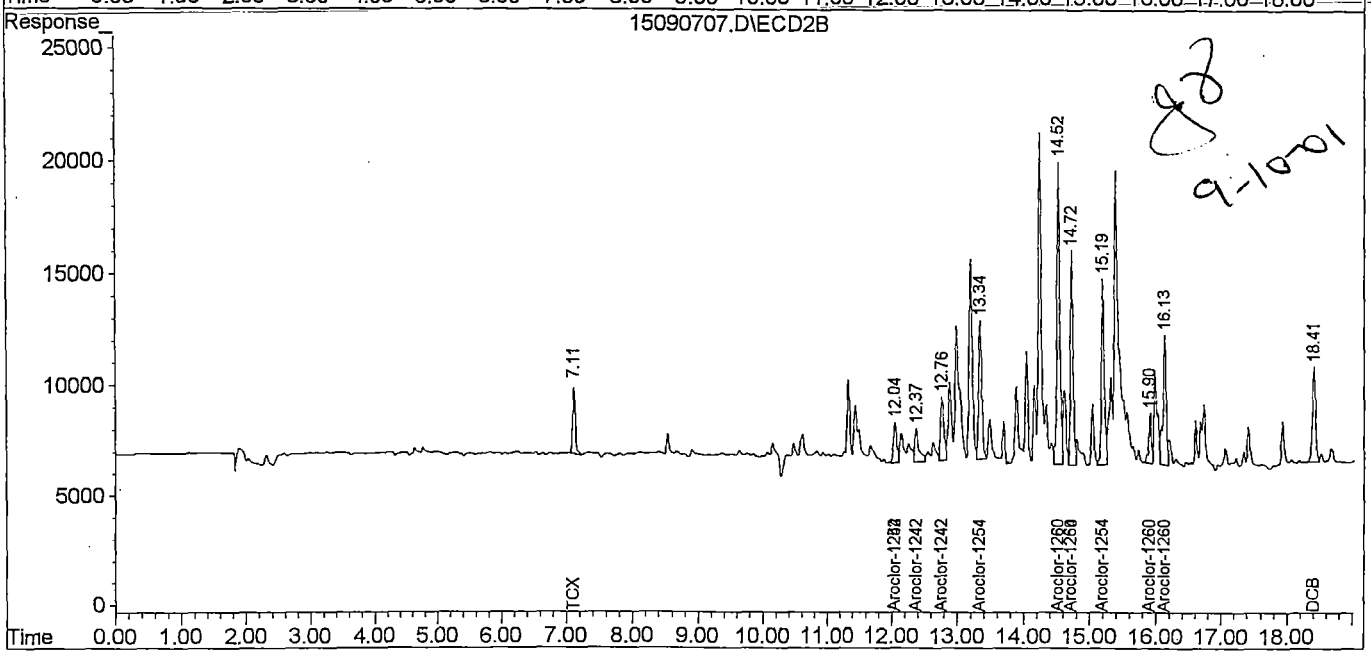
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_07_01\15090707.D\ECD1A.CH Vial: 60
Signal #2 : F:\HPCHEM\HP\15\DATA\09_07_01\15090707.D\ECD2B.CH
Acq On : 07 Sep 2001 15:35 Operator: DDC
Sample : 47166.15DL *E00Z3DL * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*15 Dilution: 5.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 8 8:44 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Fri Sep 07 16:29:03 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





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_07_01\15090707.D\ECD1A.CH Vial: 60
Signal #2 : F:\HPCHEM\HP\15\DATA\09_07_01\15090707.D\ECD2B.CH
Acq On : 07 Sep 2001 15:35 Operator: DDC
Sample : 47166.15DL *E00Z3DL * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*15 Dilution: 5.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 8 8:44 2001 Quant Results File: XPCBI04.RES

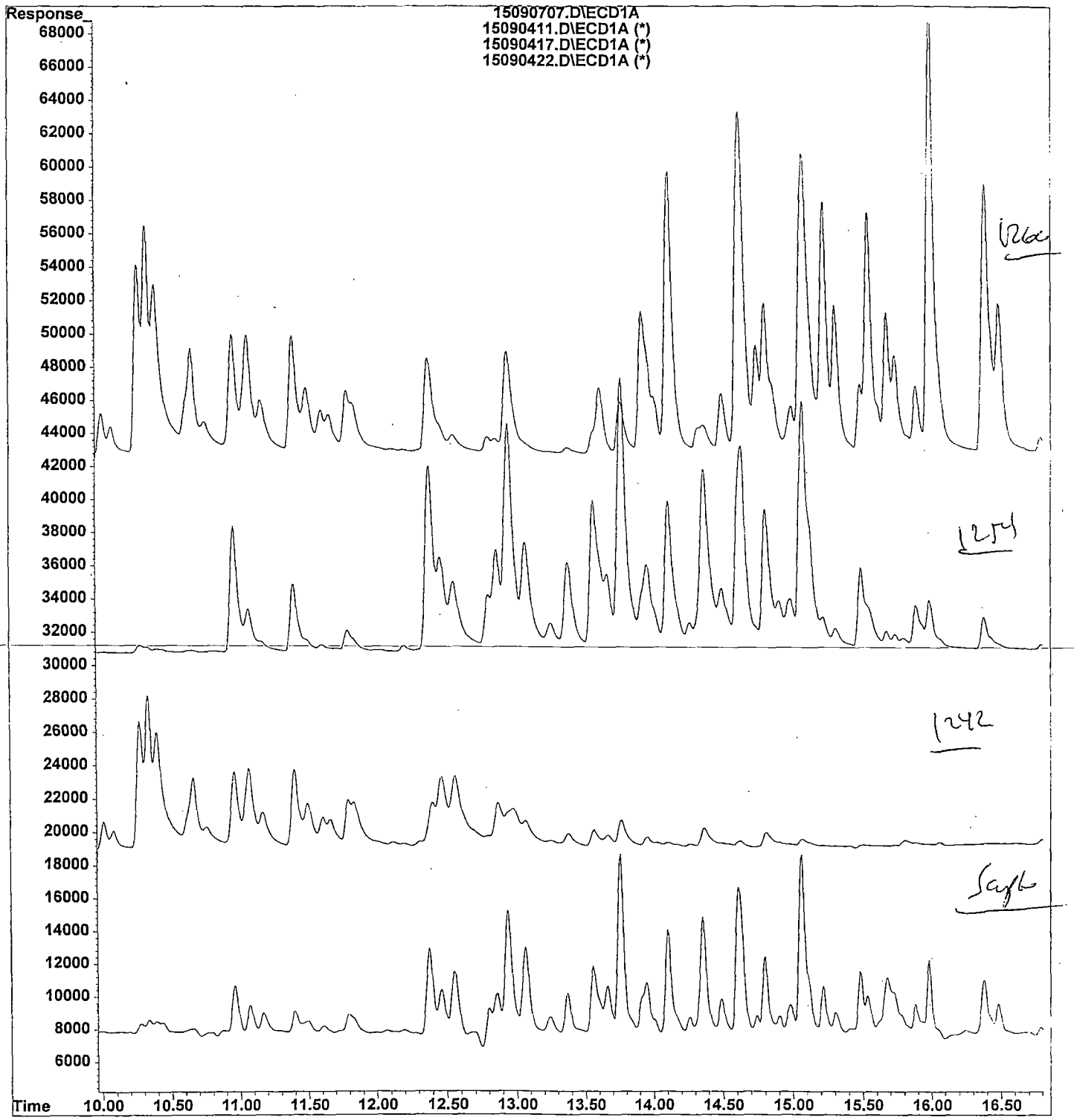
Method : F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Fri Sep 07 16:29:03 2001
Response via : Initial Calibration

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	7.35	7.11	86498	83678	7.335	6.097m	
	Spiked Amount 7.817			Recovery	=	93.83%	78.00%	
22)	S DCB	18.03	18.41	103230	141363	8.365	10.0	
	Spiked Amount 7.817			Recovery	=	107.01%	127.93%	
	Target Compounds:							
9)	L4 Aroclor-1242 {3}	10.39	12.05	23910	63812	53.6	217.0	#
10)	L4 Aroclor-1242 {4}	11.49	12.37	42777	67915	290.6	393.4	#
11)	L4 Aroclor-1242 {5}	11.80f	12.76	81232	105928	433.0	313.0	#
	Sum Aroclor-1242			147918	237655	777.3	923.5	
	Average Aroclor-1242					259.090	307.831	
12)	L6 Aroclor-1254	12.38	12.05	178144	63812	367.9	299.1	
13)	L6 Aroclor-1254 {2}	13.06	13.34	223857	208531	603.7	585.2	
14)	L6 Aroclor-1254 {3}	13.56	0.00	153469	0	328.7	N.D. d	#
15)	L6 Aroclor-1254 {4}	14.10	14.72	213006	276796	482.4	574.4	
16)	L6 Aroclor-1254 {5}	14.80	15.20	147727	255052	395.3	436.8	
	Sum Aroclor-1254			916204	804191	2178.0	1895.5	
	Average Aroclor-1254					435.599	473.883	
17)	L7 Aroclor-1260	14.10	0.00	213006	0	256.6	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.61	14.52	353072	415125	326.6	474.2	#
19)	L7 Aroclor-1260 {3}	15.06	14.72	418984	276796	393.3	252.0	#
20)	L7 Aroclor-1260 {4}	15.54	15.91	76757	63074	116.7	95.1	
21)	L7 Aroclor-1260 {5}	15.98	16.13	142693	197082	110.7	122.5	
	Sum Aroclor-1260			1204512	952077	2353.0	1844.6	
	Average Aroclor-1260					240.803	235.970	

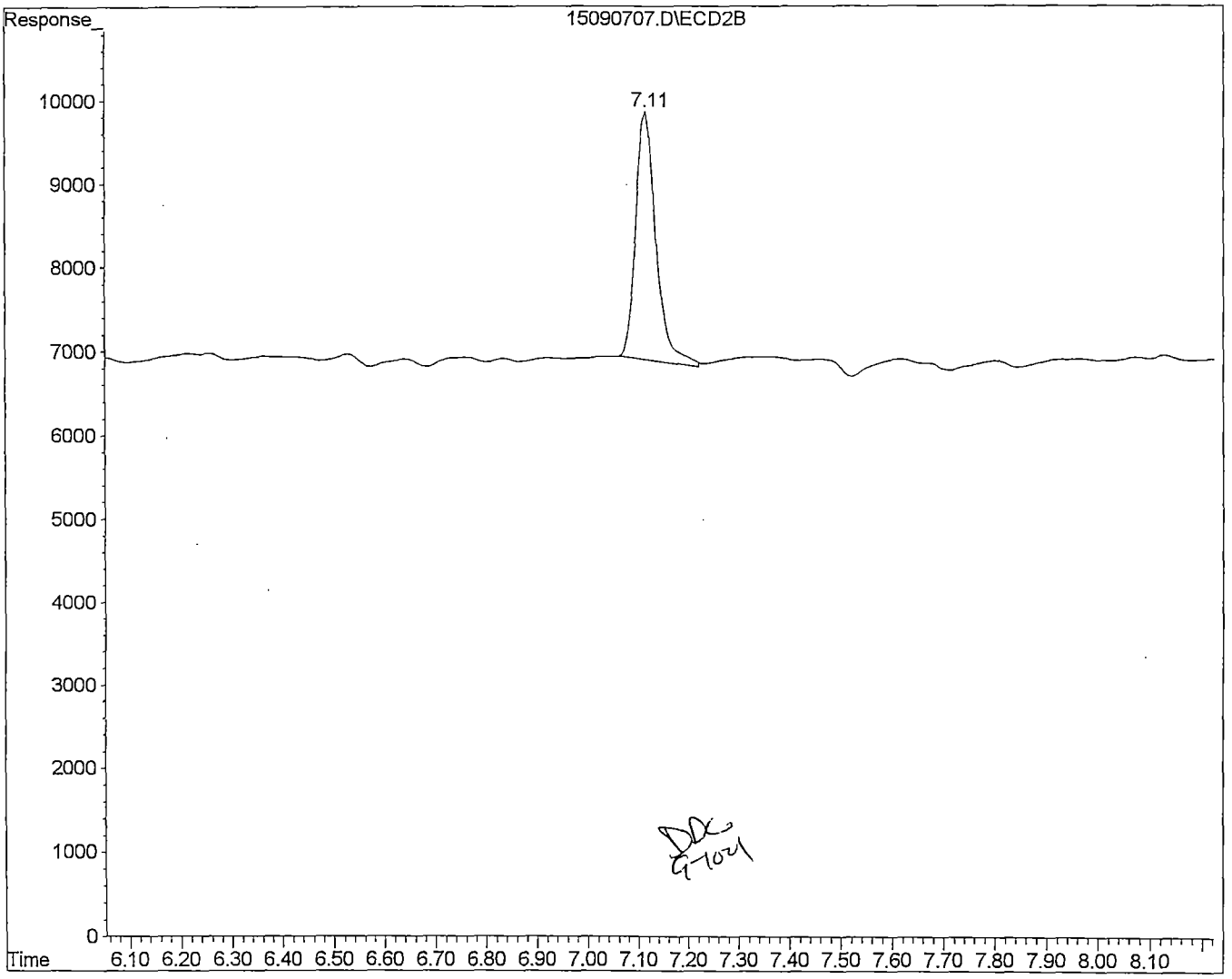
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

File : F:\HPCHEM\HP\15\DATA\09_07_01\15090707.D
Operator : DDC
Acquired : 07 Sep 2001 15:35 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 47166.15 DL
Misc Info : SM 9-10-01
Vial Number: 60



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\09_07_01\15090707.D
Date Acquired: 07 Sep 2001 15:35
Inst: HP_15 Operator ID: DDC
Name: 47166.15DL *E00Z3DL *
Misc: *EPA*30.1G/5.0ML*15
Method: F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title: PCB/TOXAPHENE
Quant Time: Sep 8 8:44 2001 Quant Results File: XPCBI04.RES



TCX #2 7.11min area: 83678 m

Integration Time Range: 7.05 - 7.22

F:\HPCHEM\HP\15\DATA\09_07_01\15090707.D
Report generated: Mon Sep 10 12:40:15 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Z4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.16

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

% Moisture: 30 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	46	UJ
11104-28-2	Aroclor-1221	46	UJ
11141-16-5	Aroclor-1232	46	UJ
53469-21-9	Aroclor-1242	270	~~J~~
12672-29-6	Aroclor-1248	46	UJ
11097-69-1	Aroclor-1254	~~640~~	610 DJ ~~E~~
11096-82-5	Aroclor-1260	340	~~J~~
Surrogate amount spiked		9.37	

apply
this results
TJS 10-4-01

FORM I PCB

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Z4DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.16DL

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

% Moisture: 30 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/07/01

Injection Volume: 0.5(uL) Dilution Factor: 5.0

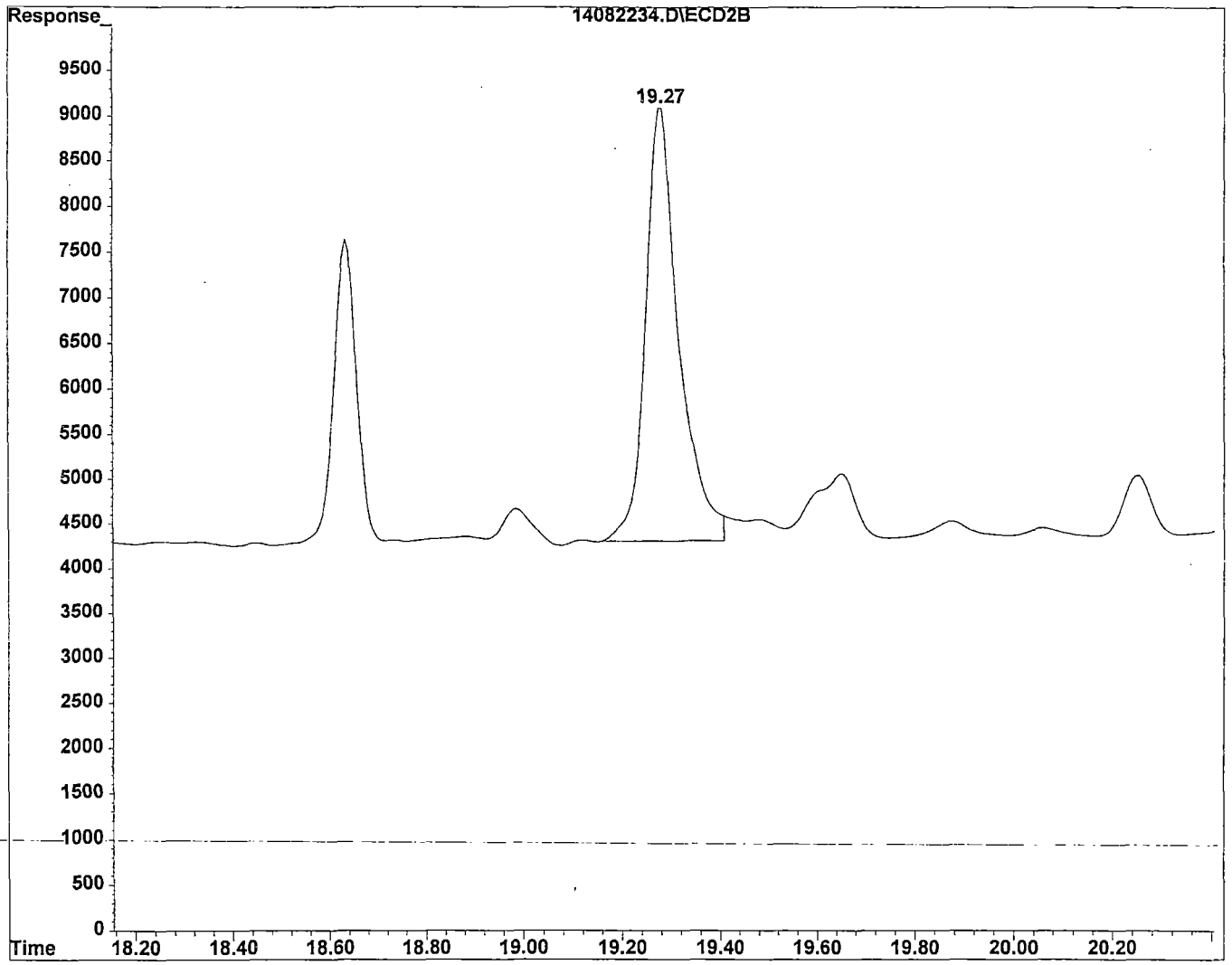
GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	230	U
11104-28-2	Aroclor-1221	230	U
11141-16-5	Aroclor-1232	230	U
53469-21-9	Aroclor-1242	370	D
12672-29-6	Aroclor-1248	230	U
11097-69-1	Aroclor-1254	610	D
11096-82-5	Aroclor-1260	310	D
Surrogate amount spiked		9.37	

FORM I PCB

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Date Acquired: 22 Aug 2001 23:35
Inst: HP_14 Operator ID: TLM
Name: 47166.16 *E00Z4 *
Misc: *EPA*30.5G/5.0ML*30
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:18 2001 Quant Results File: XPCBH20.RES



DCB #2 19.28min area: 224673 m

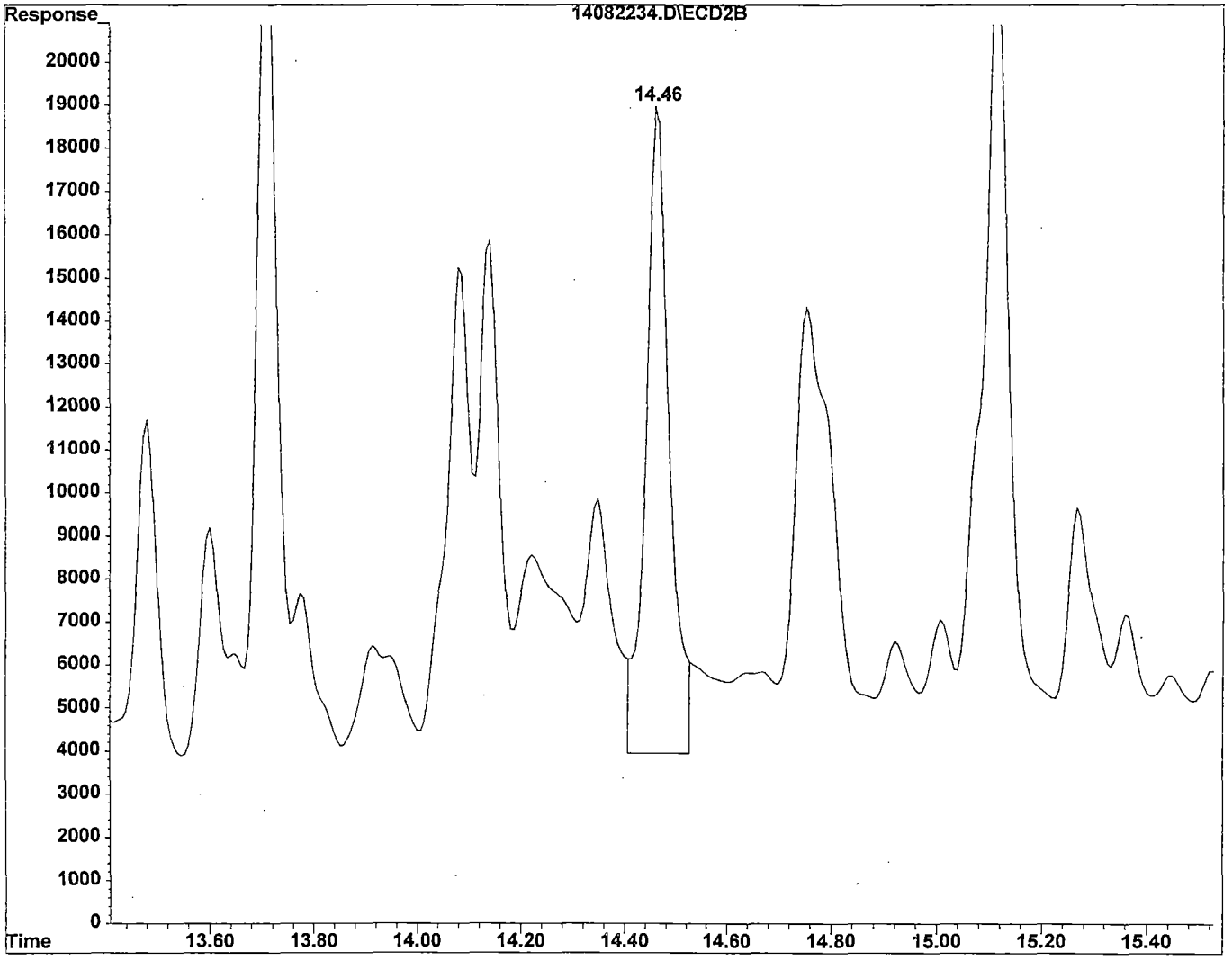
Integration Time Range: 19.16 - 19.41

TLM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Report generated: Fri Sep 07 09:35:56 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Date Acquired: 22 Aug 2001 23:35
Inst: HP_14 Operator ID: TLM
Name: 47166.16 *E00Z4 *
Misc: *EPA*30.5G/5.0ML*30
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:18 2001 Quant Results File: XPCBH20.RES



Aroclor-1254 {5} #2 14.46min area: 476720 m

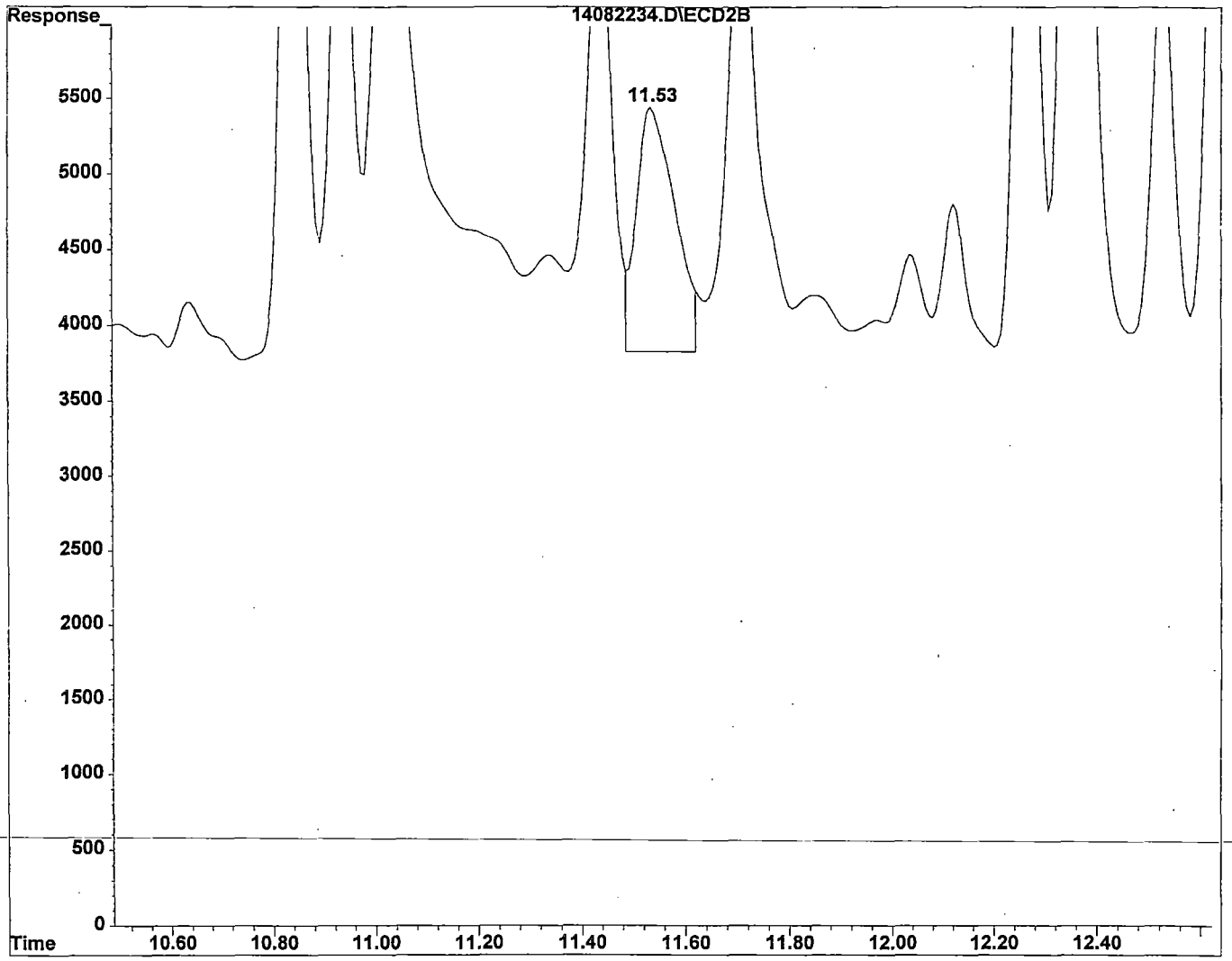
Integration Time Range: 14.41 - 14.53

9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Report generated: Fri Sep 07 09:35:55 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Date Acquired: 22 Aug 2001 23:35
Inst: HP_14 Operator ID: TLM
Name: 47166.16 *E00Z4 *
Misc: *EPA*30.5G/5.0ML*30
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:18 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {5} #2 11.53min area: 82608 m

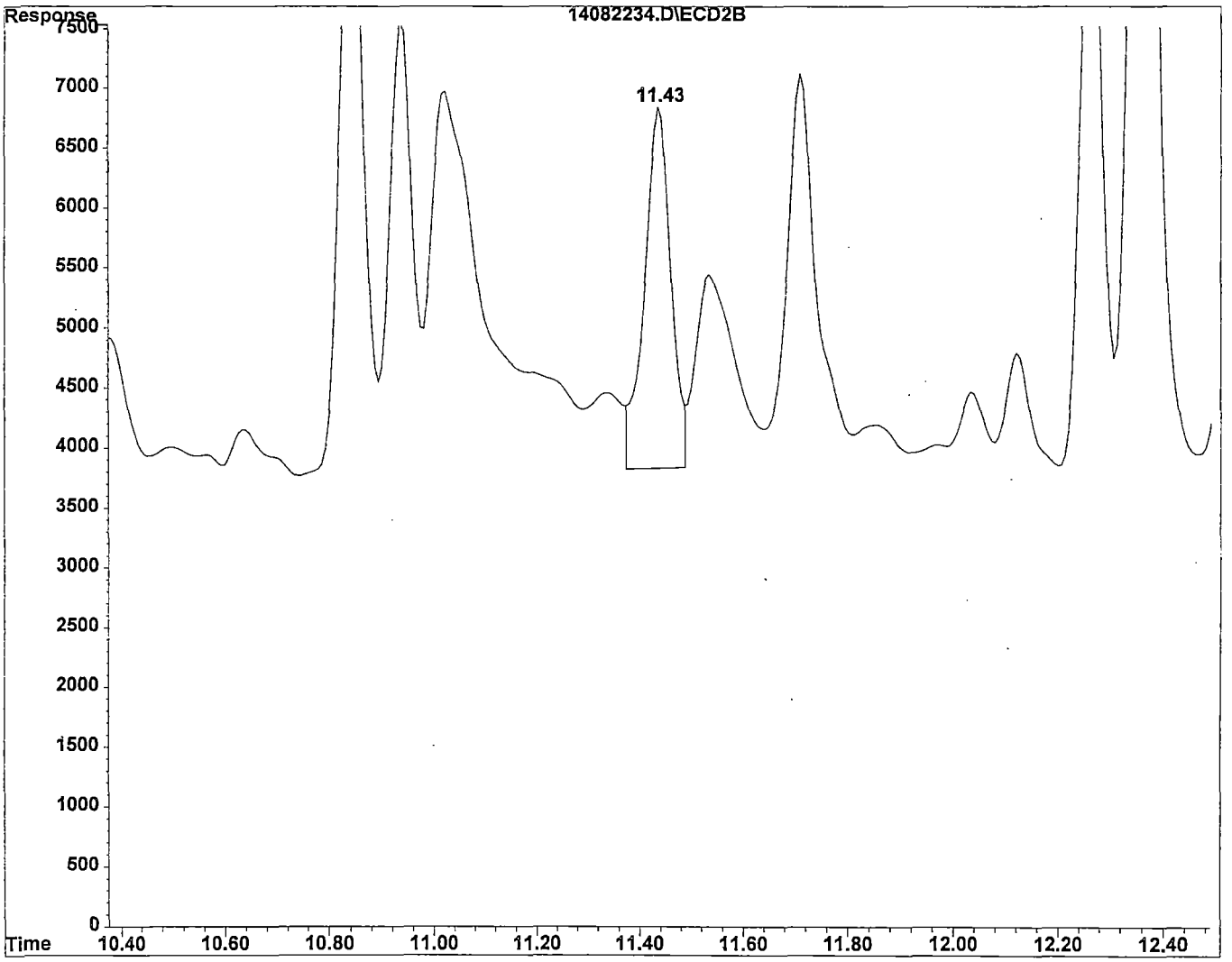
Integration Time Range: 11.49 - 11.62

TM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Report generated: Fri Sep 07 09:35:54 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Date Acquired: 22 Aug 2001 23:35
Inst: HP_14 Operator ID: TLM
Name: 47166.16 *E00Z4 *
Misc: *EPA*30.5G/5.0ML*30
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:18 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {4} #2 11.43min area: 106064 m

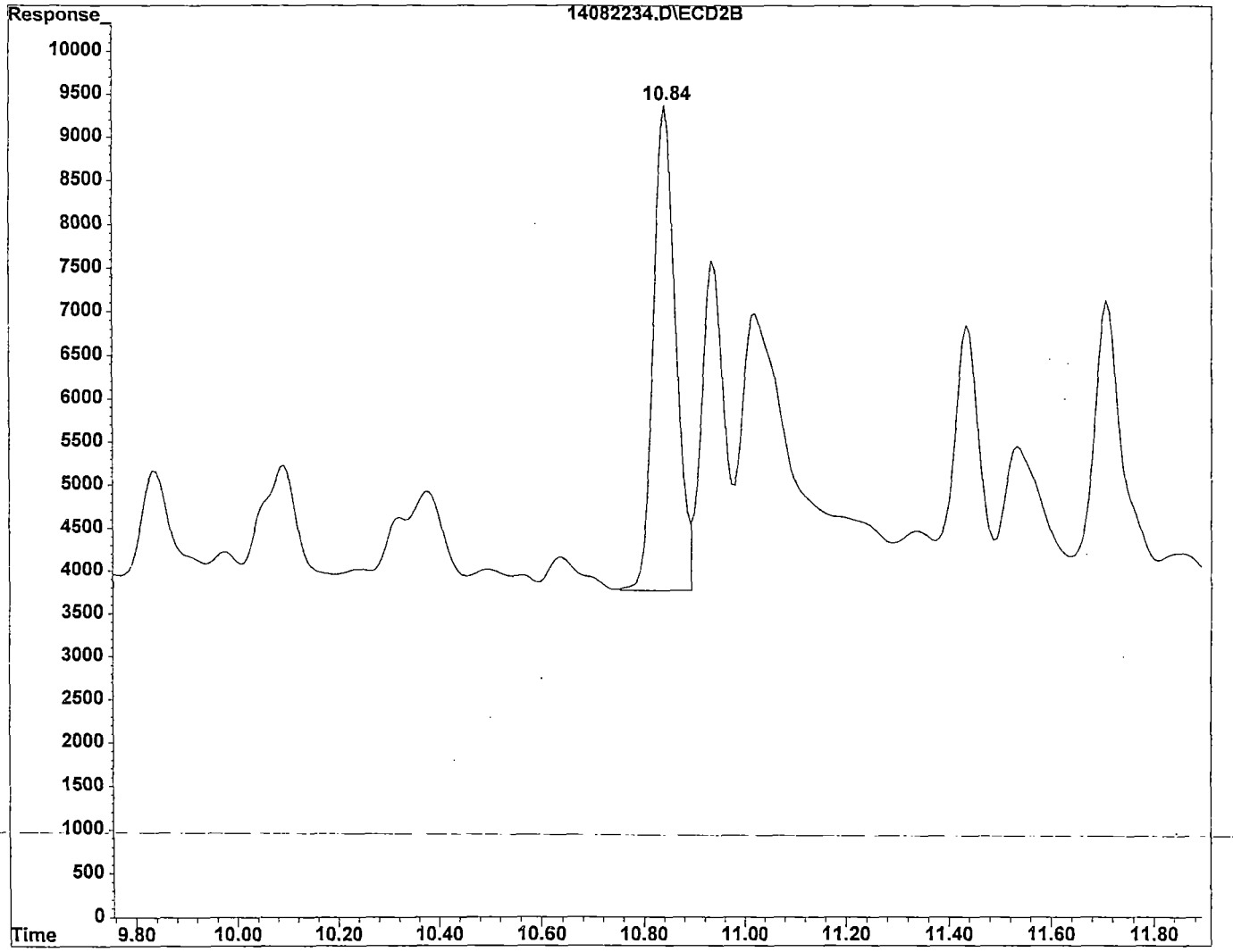
Integration Time Range: 11.37 - 11.49

JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Report generated: Fri Sep 07 09:35:54 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Date Acquired: 22 Aug 2001 23:35
Inst: HP_14 Operator ID: TLM
Name: 47166.16 *E00Z4 *
Misc: *EPA*30.5G/5.0ML*30
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:18 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {3} #2 10.84min area: 173396 m

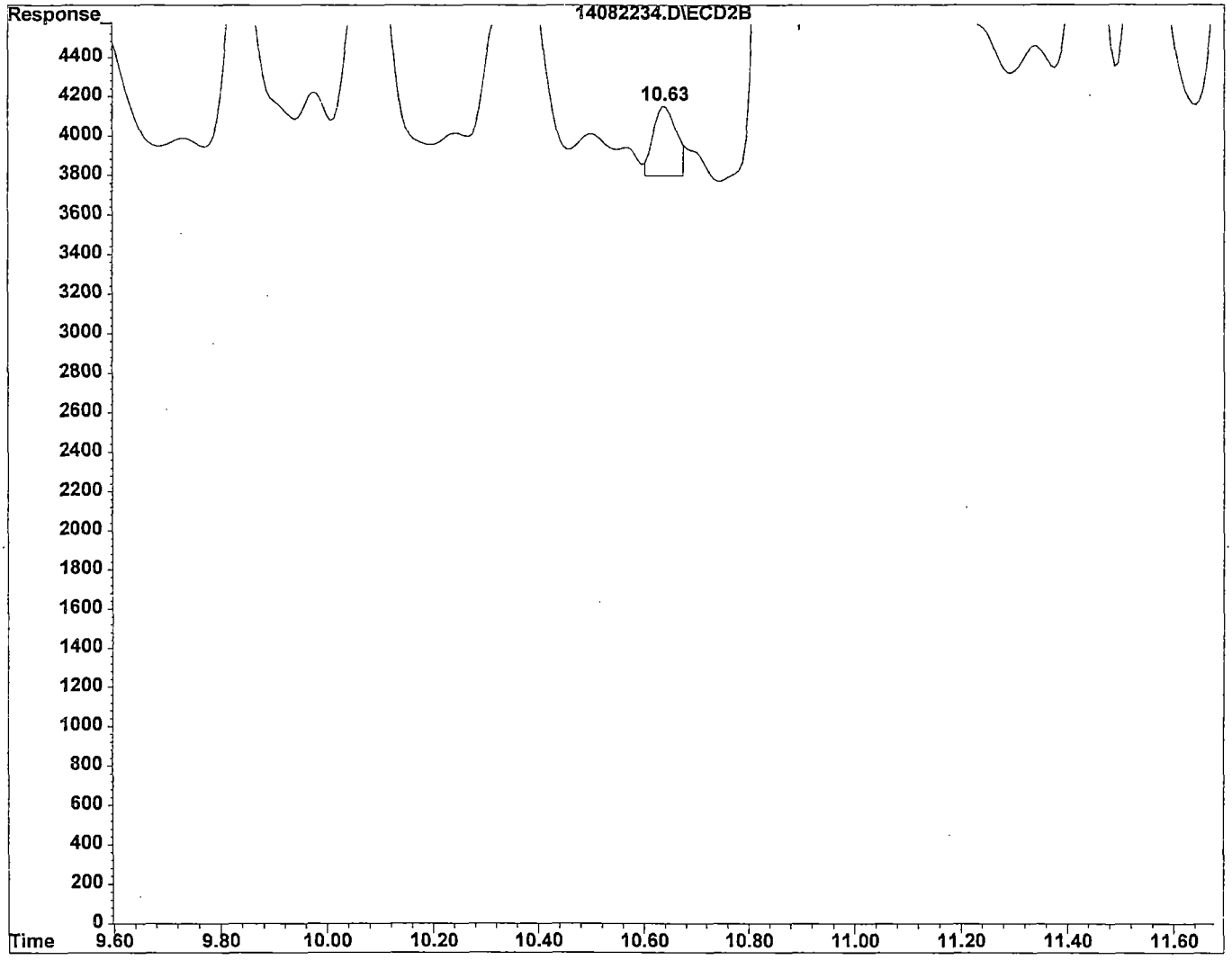
Integration Time Range: 10.76 - 10.89

JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Report generated: Fri Sep 07 09:35:53 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Date Acquired: 22 Aug 2001 23:35
Inst: HP_14 Operator ID: TLM
Name: 47166.16 *E00Z4 *
Misc: *EPA*30.5G/5.0ML*30
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:18 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {2} #2 10.63min area: 10980 m

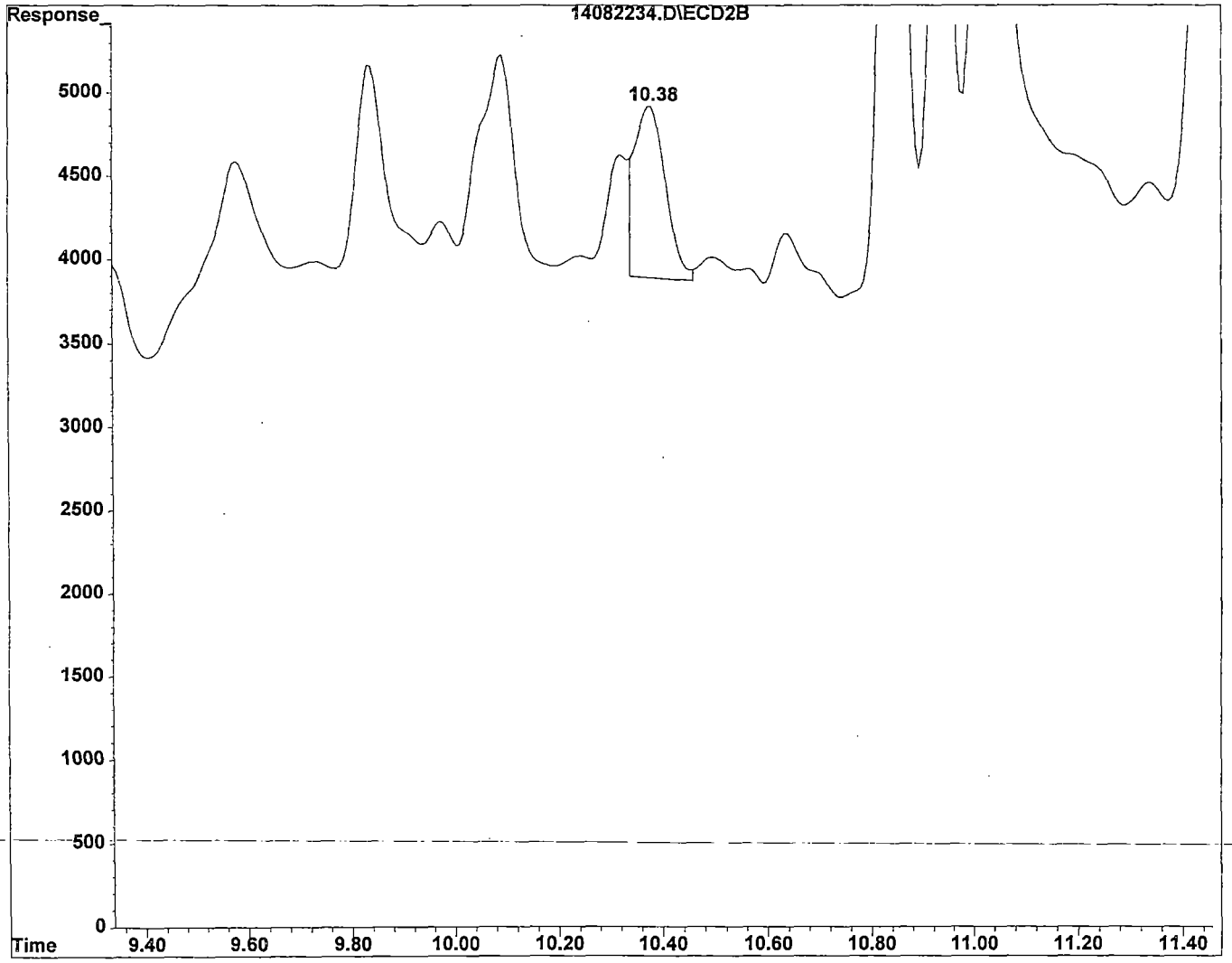
Integration Time Range: 10.60 - 10.68

9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Report generated: Fri Sep 07 09:35:52 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Date Acquired: 22 Aug 2001 23:35
Inst: HP_14 Operator ID: TLM
Name: 47166.16 *E00Z4 *
Misc: *EPA*30.5G/5.0ML*30
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:18 2001 Quant Results File: XPCBH20.RES



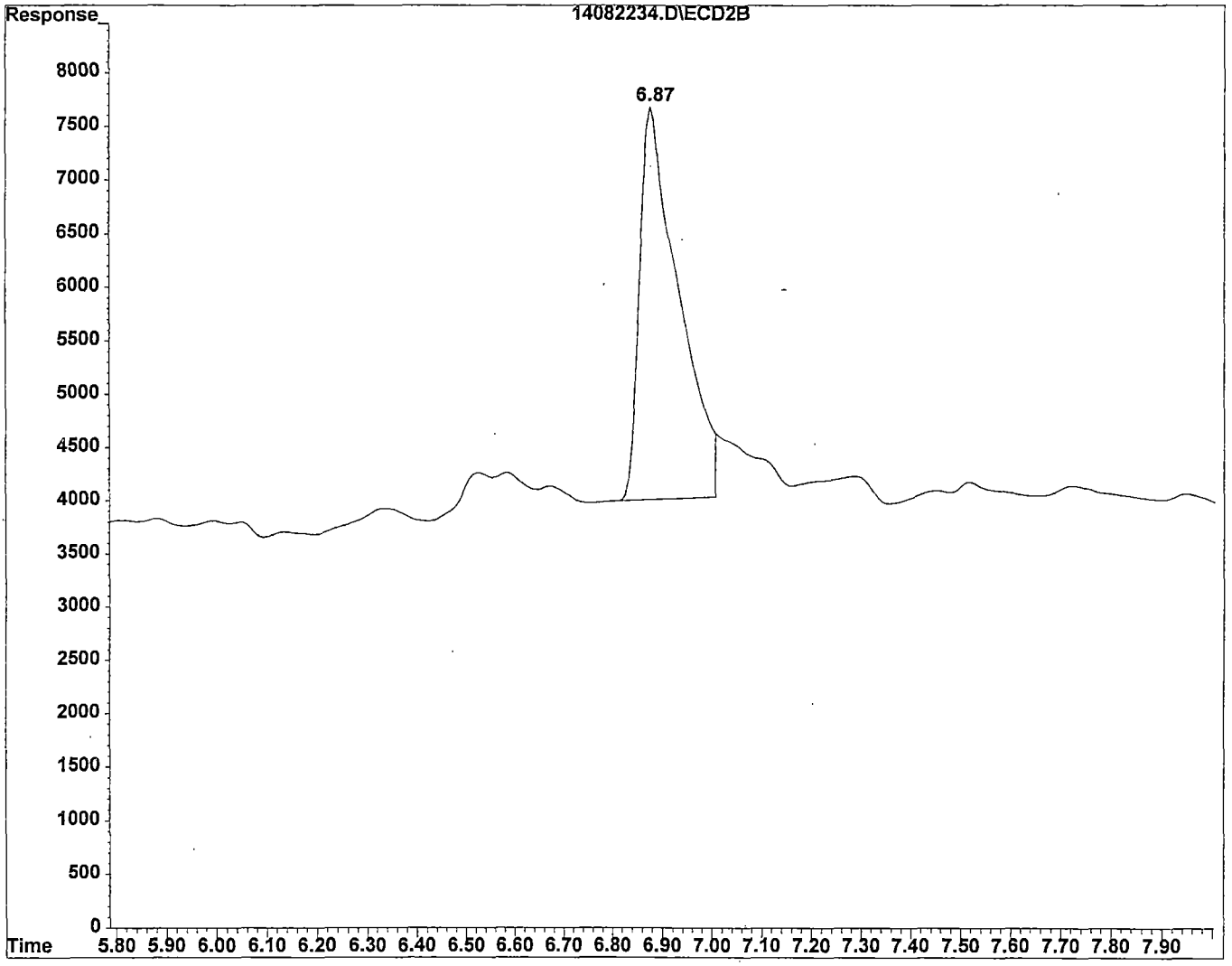
Aroclor-1242 #2 10.38min area: 41020 m

Integration Time Range: 10.34 - 10.46 JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Report generated: Fri Sep 07 09:35:51 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Date Acquired: 22 Aug 2001 23:35
Inst: HP_14 Operator ID: TLM
Name: 47166.16 *E00Z4 *
Misc: *EPA*30.5G/5.0ML*30
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:18 2001 Quant Results File: XPCBH20.RES



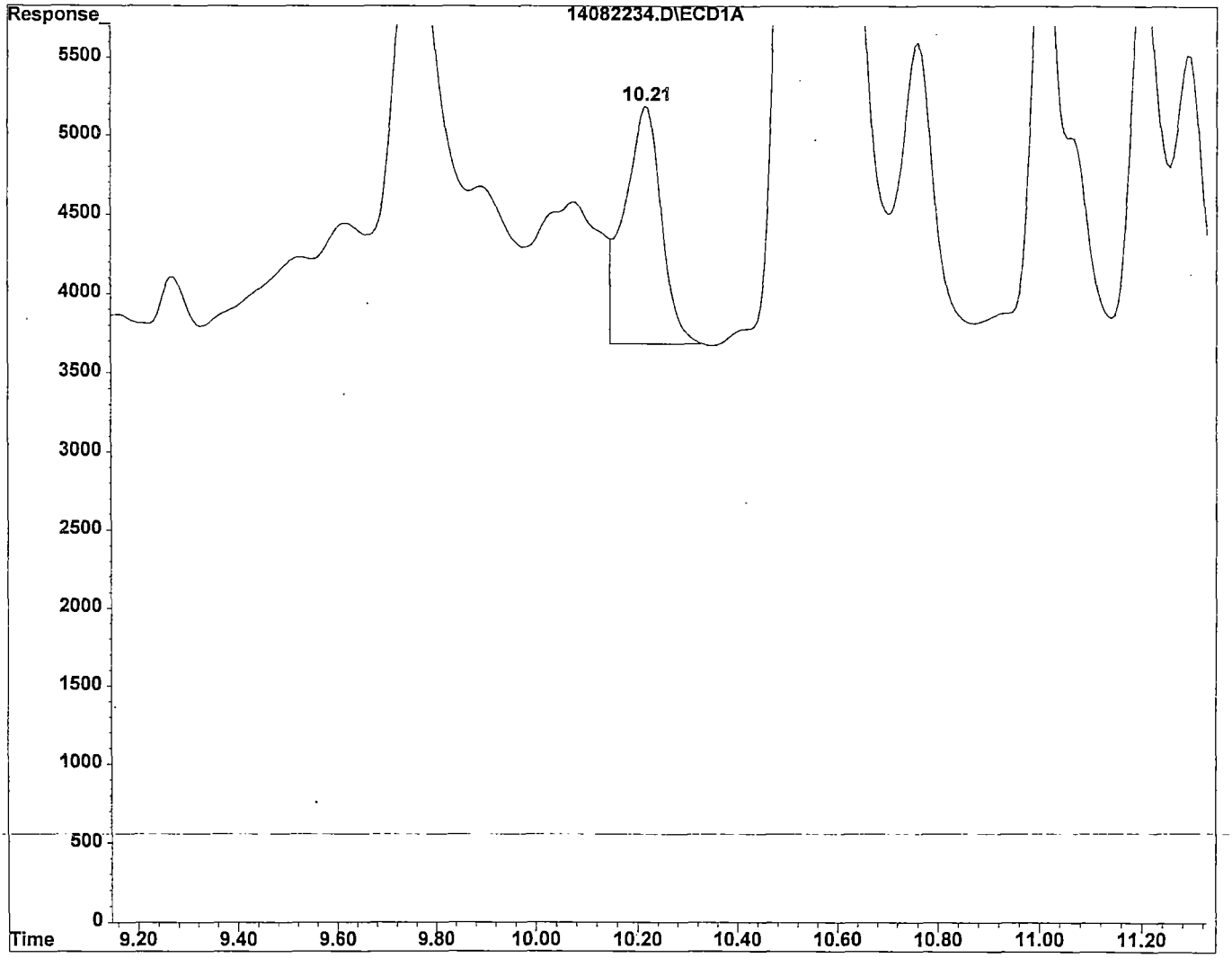
TCX #2 6.87min area: 195766 m

Integration Time Range: 6.79 - 7.00 JMM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Report generated: Fri Sep 07 09:35:51 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Date Acquired: 22 Aug 2001 23:35
Inst: HP_14 Operator ID: TLM
Name: 47166.16 *E00Z4 *
Misc: *EPA*30.5G/5.0ML*30
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:18 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {2} 10.21min area: 74388 m

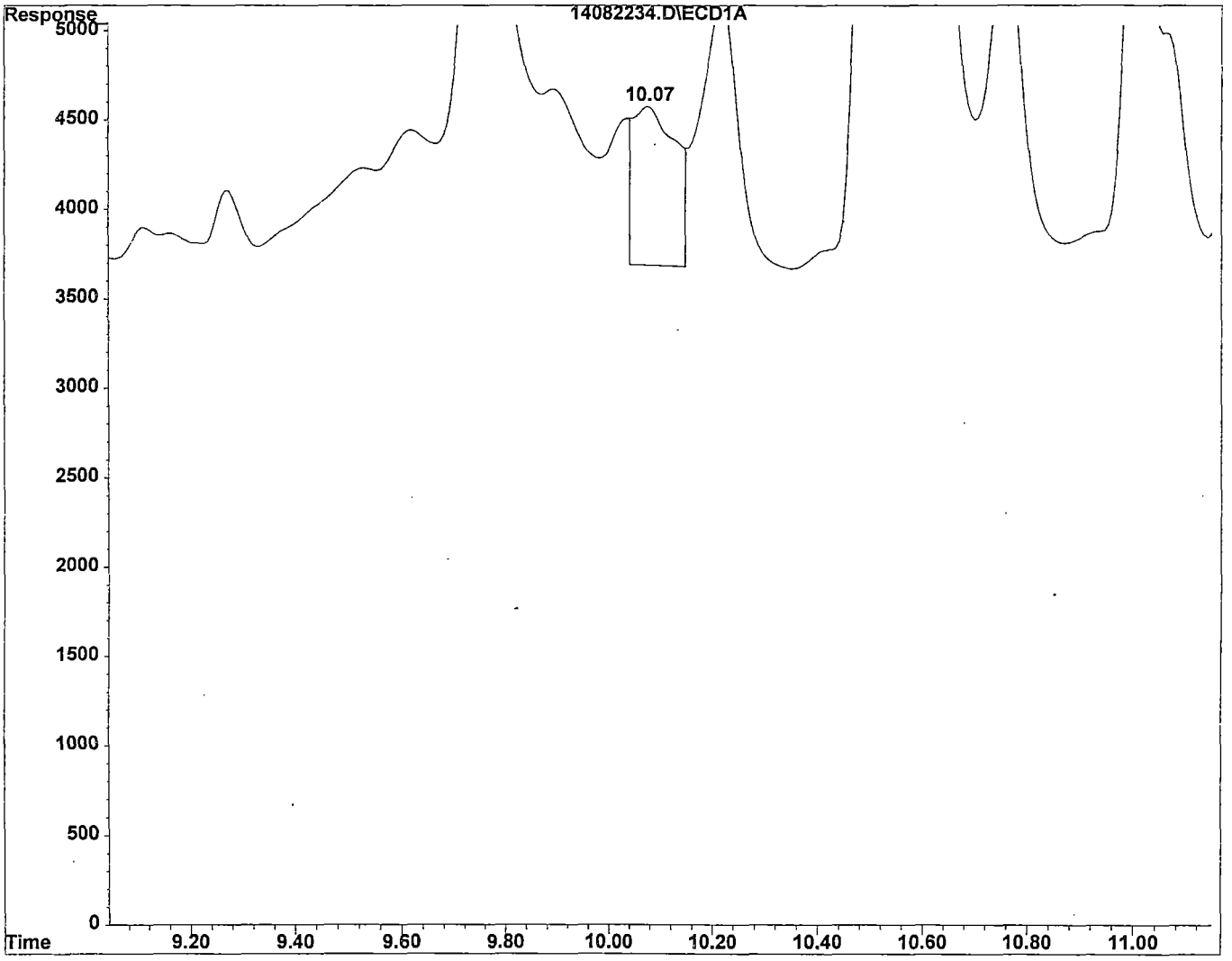
Integration Time Range: 10.15 - 10.33

3M
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Report generated: Fri Sep 07 09:35:50 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Date Acquired: 22 Aug 2001 23:35
Inst: HP_14 Operator ID: TLM
Name: 47166.16 *E00Z4 *
Misc: *EPA*30.5G/5.0ML*30
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:18 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 10.07min area: 49968 m

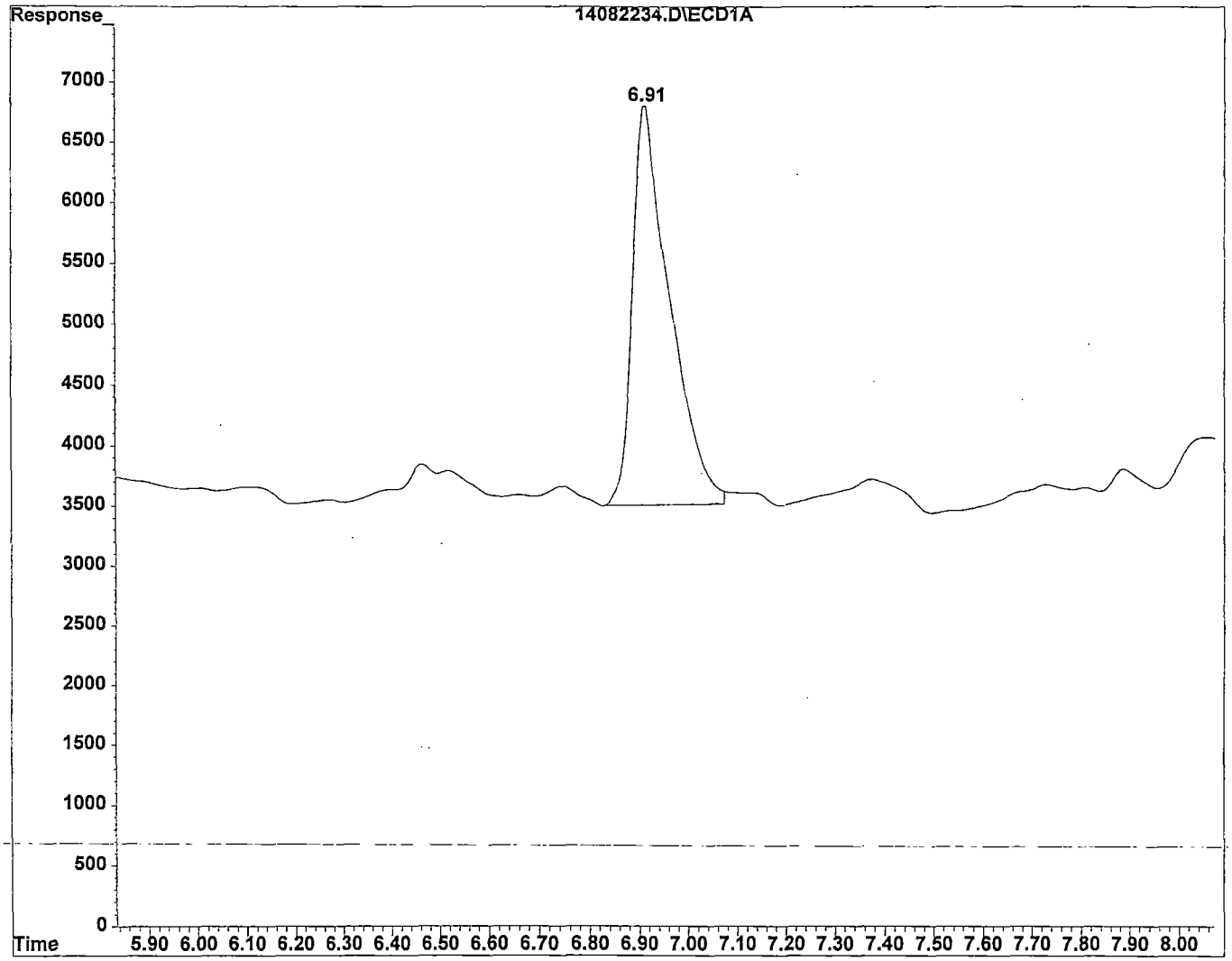
Integration Time Range: 10.04 - 10.15

9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Report generated: Fri Sep 07 09:35:49 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Date Acquired: 22 Aug 2001 23:35
Inst: HP_14 Operator ID: TLM
Name: 47166.16 *E00Z4 *
Misc: *EPA*30.5G/5.0ML*30
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:18 2001 Quant Results File: XPCBH20.RES



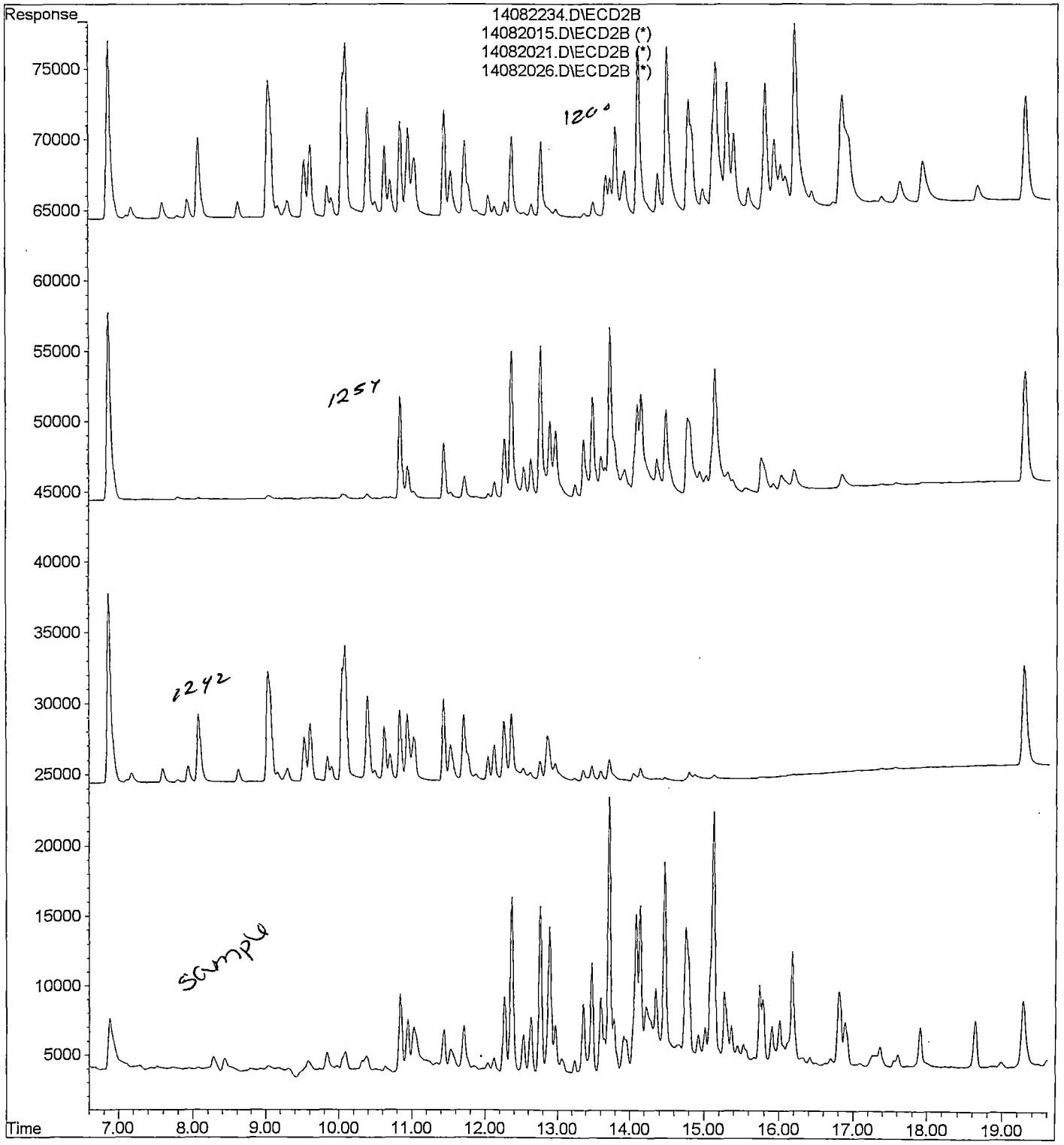
TCX 6.91min area: 172378 m

Integration Time Range: 6.83 - 7.07

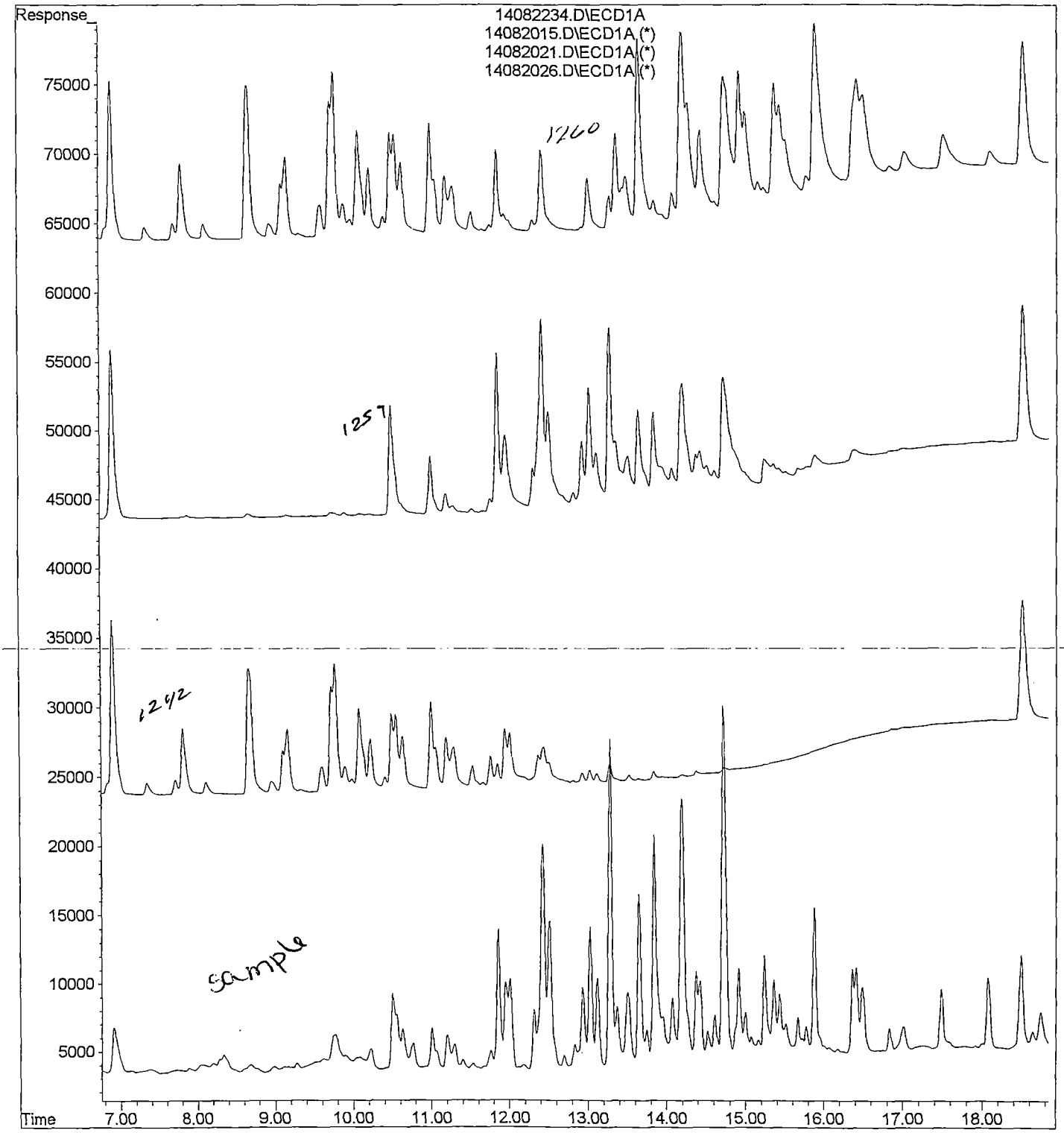
JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Report generated: Fri Sep 07 09:35:48 2001

File : F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Operator : TLM
Acquired : 22 Aug 2001 23:35 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.16 *E00Z4 *
Misc Info : *EPA*30.5G/5.0ML*30
Vial Number: 34



File : F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D
Operator : TLM
Acquired : 22 Aug 2001 23:35 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.16 *E00Z4 *
Misc Info : *EPA*30.5G/5.0ML*30
Vial Number: 34



Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D\ECD1A.CH Vial: 34
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D\ECD2B.CH
Acq On : 22 Aug 2001 23:35 Operator: TLM
Sample : 47166.16 *E00Z4 * Inst : HP_14
Misc : *EPA*30.5G/5.0ML*30 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 9:18 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	172378	195766	7.848m	9.753m
	Spiked Amount 9.368			Recovery	=	83.78%	104.11%
22)	S DCB	18.49	19.28	266384	224673	12.4	16.3m #
	Spiked Amount 9.368			Recovery	=	132.37%	174.00%
	Target Compounds:						
7)	L4 Aroclor-1242	10.07	10.38	49968	41020	90.2m	97.7m
8)	L4 Aroclor-1242 {2}	10.21	10.63	74388	10980	245.0m	51.0m #
9)	L4 Aroclor-1242 {3}	10.63	10.84	128944	173396	375.3	610.5m #
10)	L4 Aroclor-1242 {4}	11.20	11.43	98579	106064	408.1	326.9m
11)	L4 Aroclor-1242 {5}	11.29	11.53	72994	82608	236.6	427.4m #
	Sum Aroclor-1242			424872	414068	1355.2	1513.7
	Average Aroclor-1242					271.037	302.734
12)	L6 Aroclor-1254	11.85	12.36	350223	405551	419.5	574.2 #
13)	L6 Aroclor-1254 {2}	12.42	12.76	669965	364949	529.6	532.5
14)	L6 Aroclor-1254 {3}	13.02	13.48	338674	227616	542.0	492.2
15)	L6 Aroclor-1254 {4}	13.64	14.08	411294	366441	716.6	859.3 E
16)	L6 Aroclor-1254 {5}	14.19	14.46	890681	476720	990.8 E	958.9mE
	Sum Aroclor-1254			2660838	1841277	3198.6	3417.1
	Average Aroclor-1254					639.719	683.422
17)	L7 Aroclor-1260	14.71	15.12	986593	731266	697.2	626.8
18)	L7 Aroclor-1260 {2}	14.91	15.27	266362	219855	319.0	333.4
19)	L7 Aroclor-1260 {3}	15.00	15.36	111995	105759	162.6	234.9 #
20)	L7 Aroclor-1260 {4}	15.35	15.78	184778	147146	300.6	225.4 #
21)	L7 Aroclor-1260 {5}	15.88	16.18	375064	355135	196.5	288.0 #
	Sum Aroclor-1260			1924791	1559161	785.0	800.3
	Average Aroclor-1260					335.186	341.715

JM 9-7-01

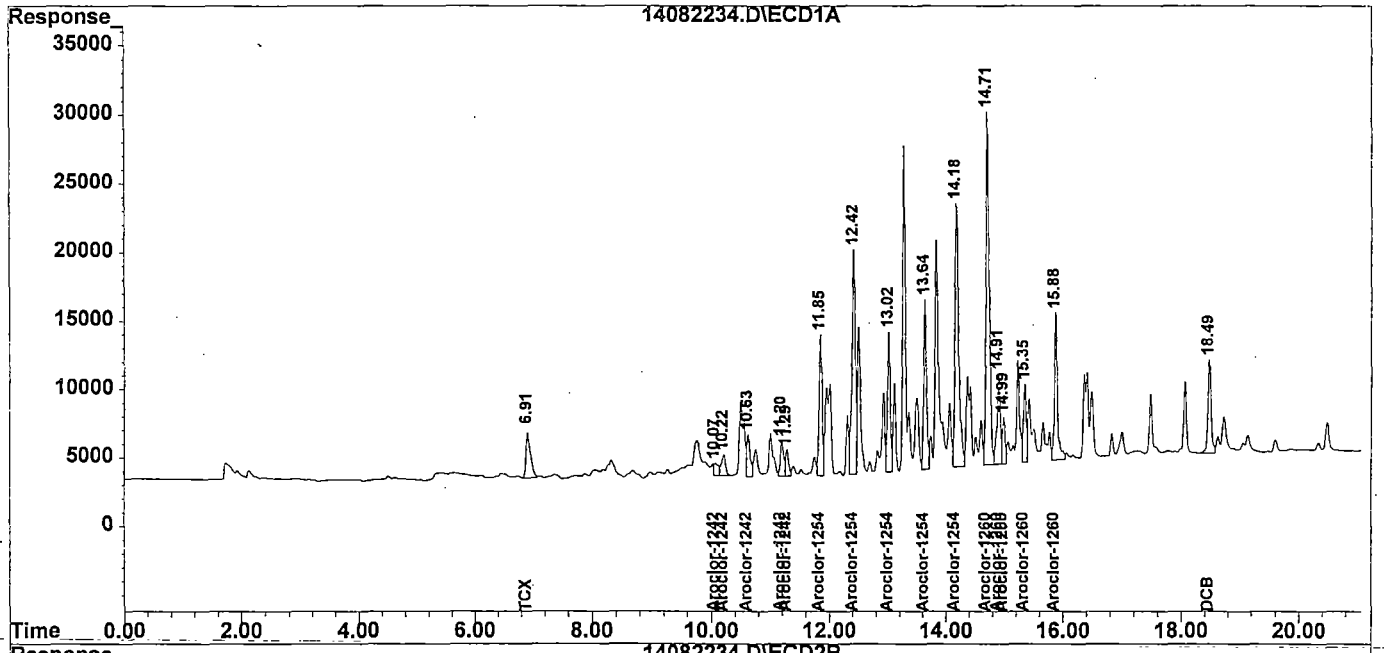
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

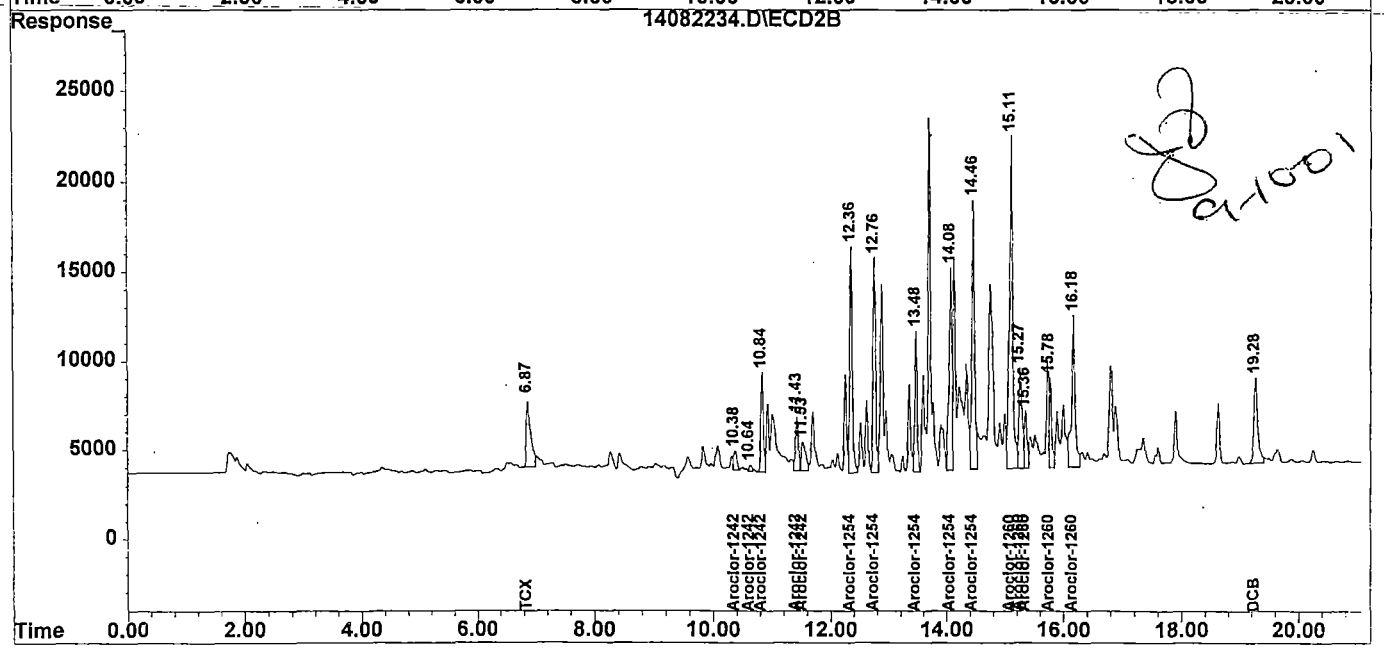
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D\ECD1A.CH Vial: 34
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082234.D\ECD2B.CH
Acq On : 22 Aug 2001 23:35 Operator: TLM
Sample : 47166.16 *E00Z4 * Inst : HP_14
Misc : *EPA*30.5G/5.0ML*30 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 9:18 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B



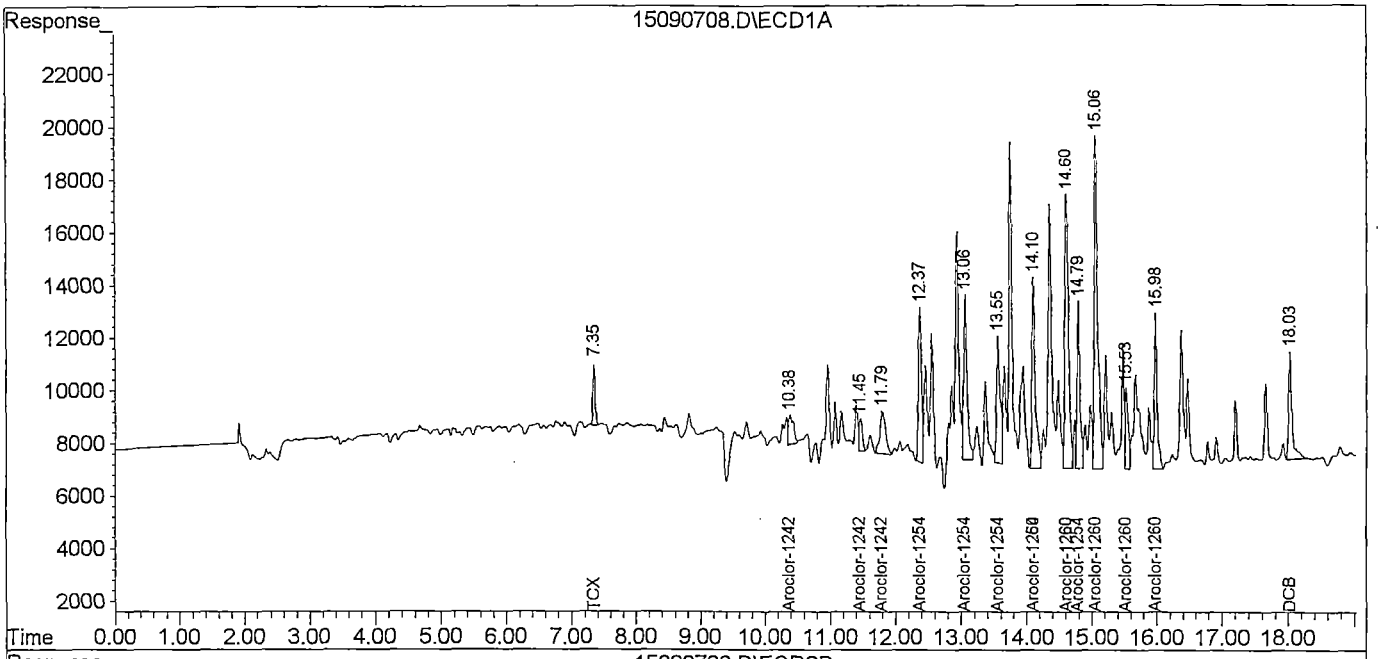


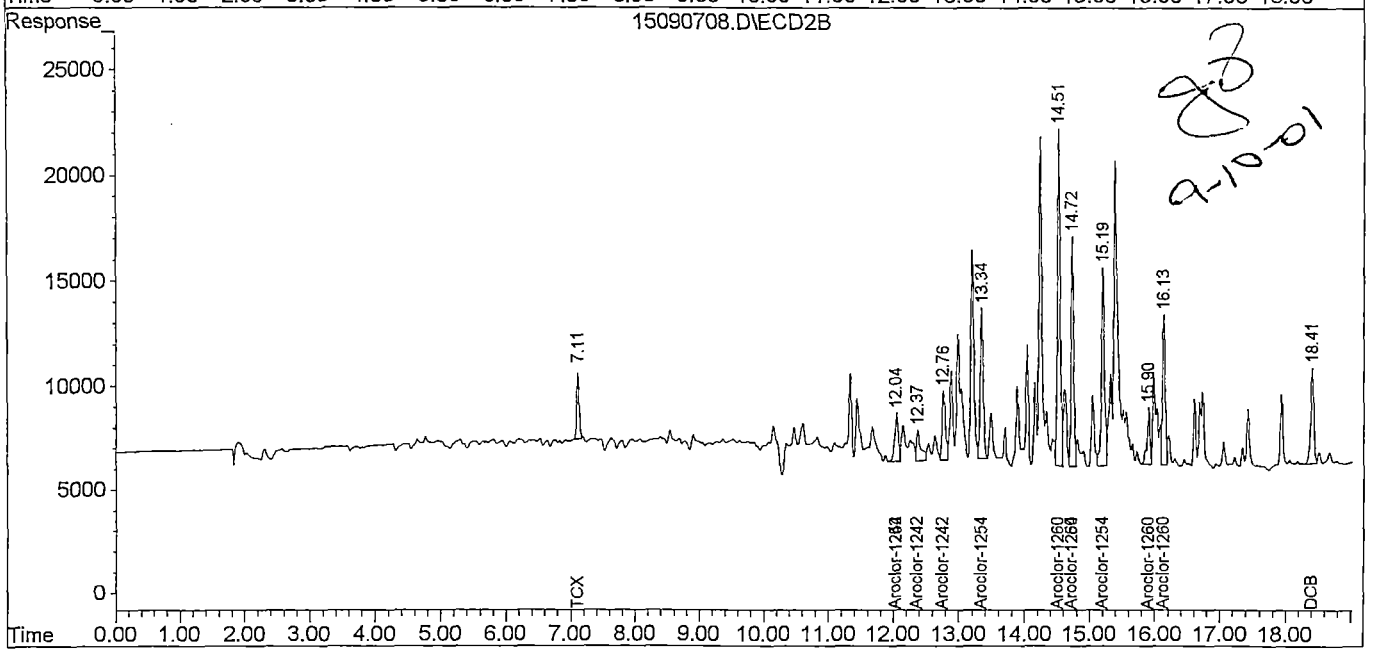
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_07_01\15090708.D\ECD1A.CH Vial: 61
Signal #2 : F:\HPCHEM\HP\15\DATA\09_07_01\15090708.D\ECD2B.CH
Acq On : 07 Sep 2001 15:58 Operator: DDC
Sample : 47166.16DL *E00Z4DL * Inst : HP_15
Misc : *EPA*30.5G/5.0ML*30 Dilution: 5.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 8 8:46 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Fri Sep 07 16:29:03 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





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_07_01\15090708.D\ECD1A.CH Vial: 61
Signal #2 : F:\HPCHEM\HP\15\DATA\09_07_01\15090708.D\ECD2B.CH
Acq On : 07 Sep 2001 15:58 Operator: DDC
Sample : 47166.16DL *E00Z4DL * Inst : HP_15
Misc : *EPA*30.5G/5.0ML*30 Dilution: 5.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 8 8:46 2001 Quant Results File: XPCBI04.RES

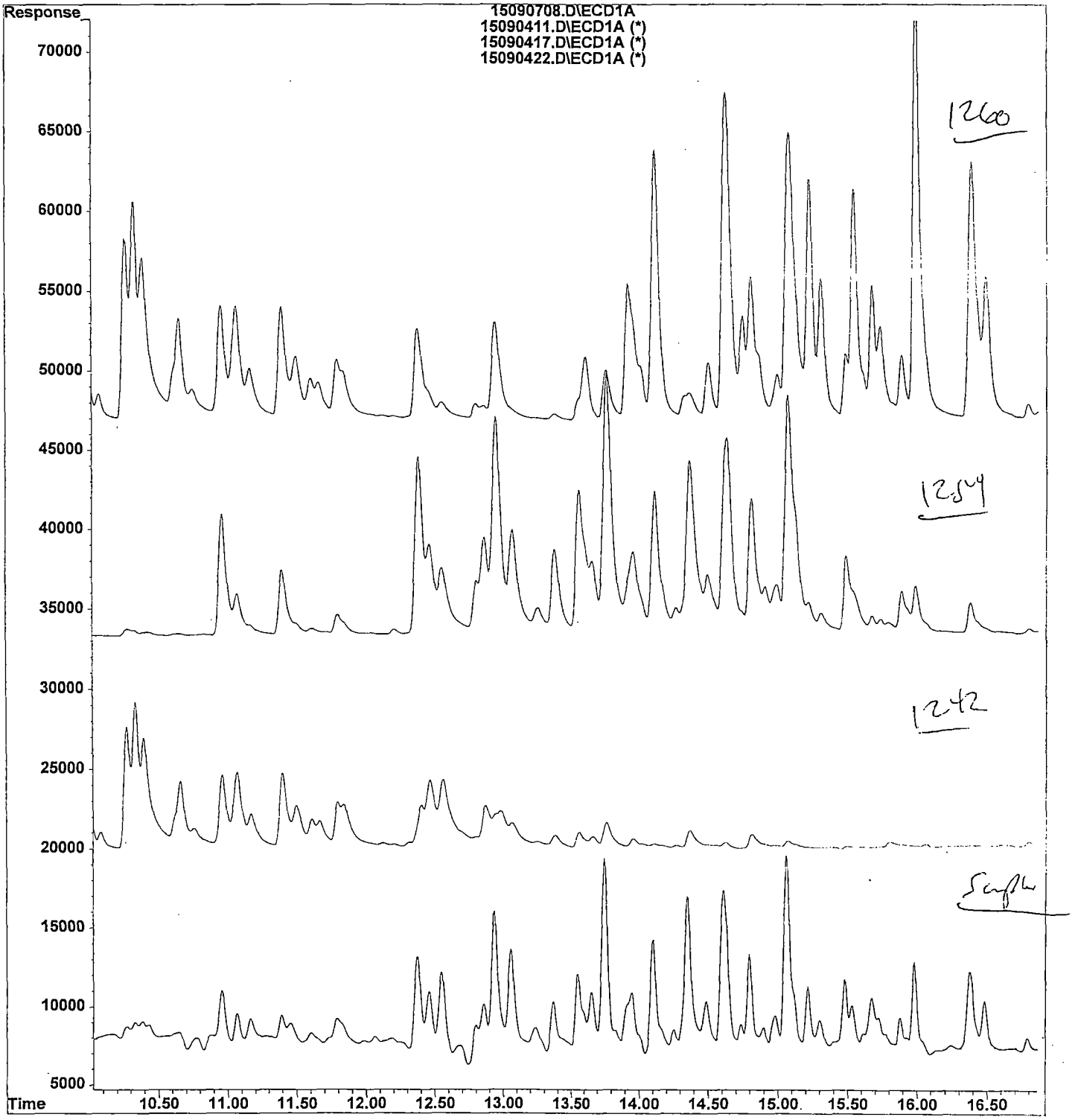
Method : F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Fri Sep 07 16:29:03 2001
Response via : Initial Calibration

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:					DDC 9-10-01	DDC 9-10-01
1)	S TCX	7.35	7.11	54013	82898	5.489m	7.238m #
	Spiked Amount 9.368			Recovery	=	58.60%	77.27%
22)	S DCB	18.03	18.41	149054	154341	14.5	13.1
	Spiked Amount 9.368			Recovery	=	154.79%	139.84%
	Target Compounds:						
9)	L4 Aroclor-1242 {3}	10.38	12.04	56200	85503	151.0m	348.5 #
10)	L4 Aroclor-1242 {4}	11.45f	12.37	38280	70535	311.7m	489.7 #
11)	L4 Aroclor-1242 {5}	11.79f	12.76	99352	114739	634.7m	406.3 #
	Sum Aroclor-1242			193832	270777	1097.3	1244.5
	Average Aroclor-1242					365.783	414.827
12)	L6 Aroclor-1254	12.37	12.04	195805	85503	484.6	480.3
13)	L6 Aroclor-1254 {2}	13.06	13.34	240049	232372	775.7	781.5
14)	L6 Aroclor-1254 {3}	13.55	0.00	189077	0	485.2	N.D. d #
15)	L6 Aroclor-1254 {4}	14.10	14.72	256333	301082	695.7	748.7
16)	L6 Aroclor-1254 {5}	14.80	15.19	191800	310842	615.1	637.9
	Sum Aroclor-1254			1073065	929800	3056.4	2648.4
	Average Aroclor-1254					611.275	662.112
17)	L7 Aroclor-1260	14.10	0.00	256333	0	370.1	N.D. d #
18)	L7 Aroclor-1260 {2}	14.61	14.52	420993	467095	466.7	639.4 #
19)	L7 Aroclor-1260 {3}	15.06	14.72	478252	301082	538.0	328.5 #
20)	L7 Aroclor-1260 {4}	15.53	15.91	91877	80722	167.4	145.8
21)	L7 Aroclor-1260 {5}	15.98	16.13	174934	192284	162.7	143.3
	Sum Aroclor-1260			1422389	1041184	3992.8	2943.9
	Average Aroclor-1260					340.981	314.266

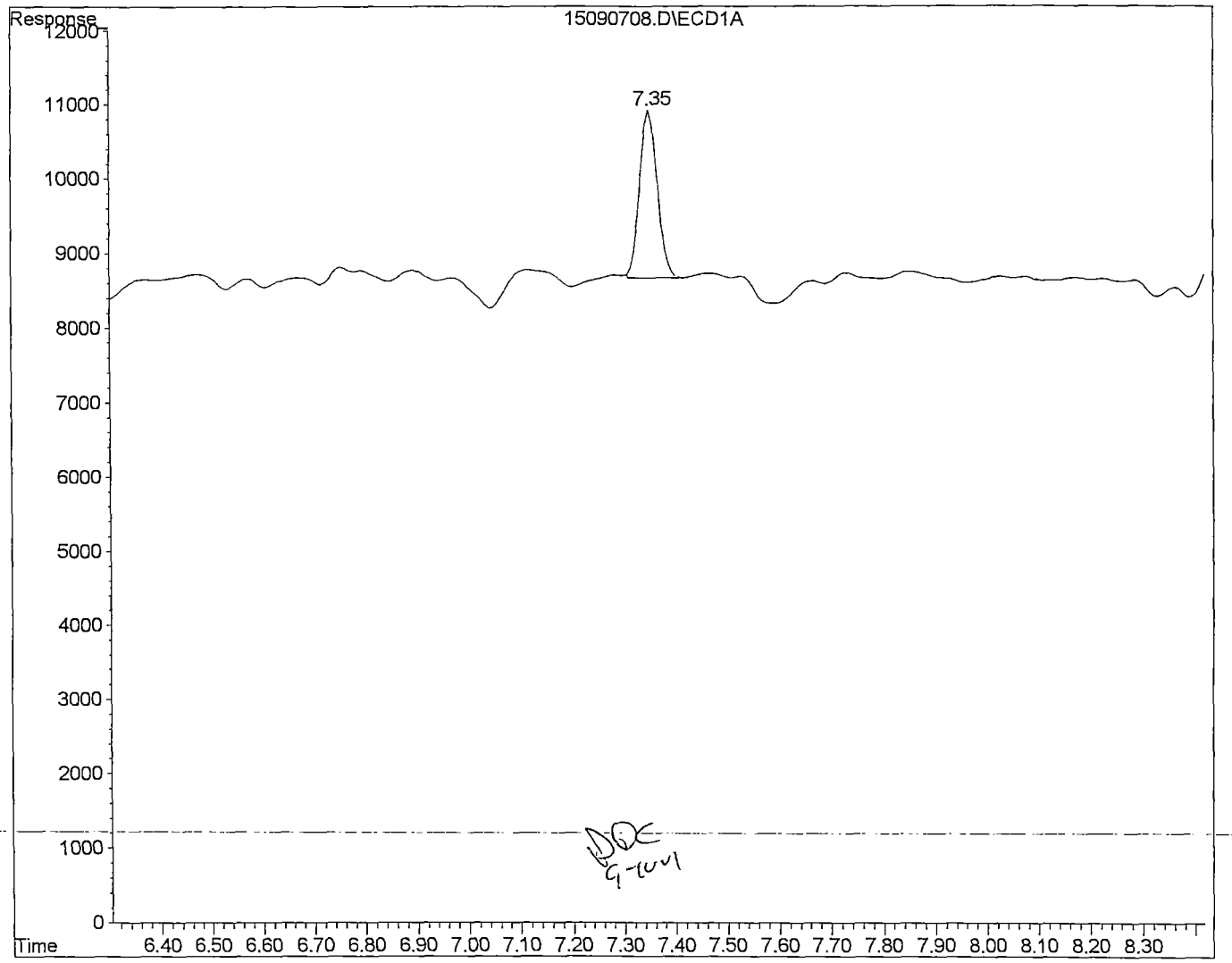
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

File : F:\HPCHEM\HP\15\DATA\09_07_01\15090708.D
Operator : DDC
Acquired : 07 Sep 2001 15:58 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 47166.16DL
Misc Info :
Vial Number: 61



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\09_07_01\15090708.D
Date Acquired: 07 Sep 2001 15:58
Inst: HP_15 Operator ID: DDC
Name: 47166.16DL *E00Z4DL *
Misc: *EPA*30.5G/5.0ML*30
Method: F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title: PCB/TOXAPHENE
Quant Time: Sep 8 8:46 2001 Quant Results File: XPCBI04.RES



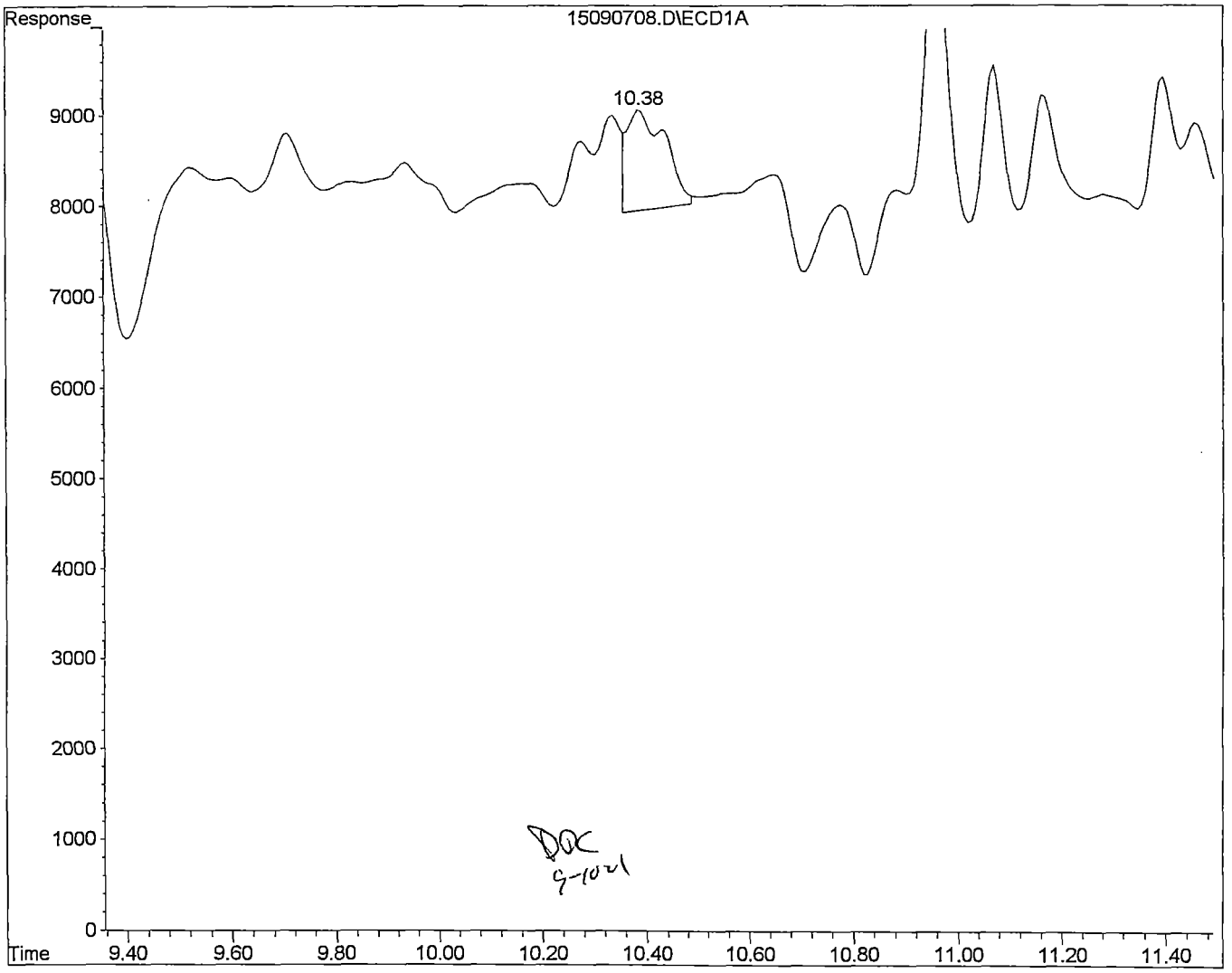
TCX 7.35min area: 54013 m

Integration Time Range: 7.30 - 7.42

F:\HPCHEM\HP\15\DATA\09_07_01\15090708.D
Report generated: Mon Sep 10 12:40:16 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\09_07_01\15090708.D
Date Acquired: 07 Sep 2001 15:58
Inst: HP_15 Operator ID: DDC
Name: 47166.16DL *E00Z4DL *
Misc: *EPA*30.5G/5.0ML*30
Method: F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title: PCB/TOXAPHENE
Quant Time: Sep 8 8:46 2001 Quant Results File: XPCBI04.RES



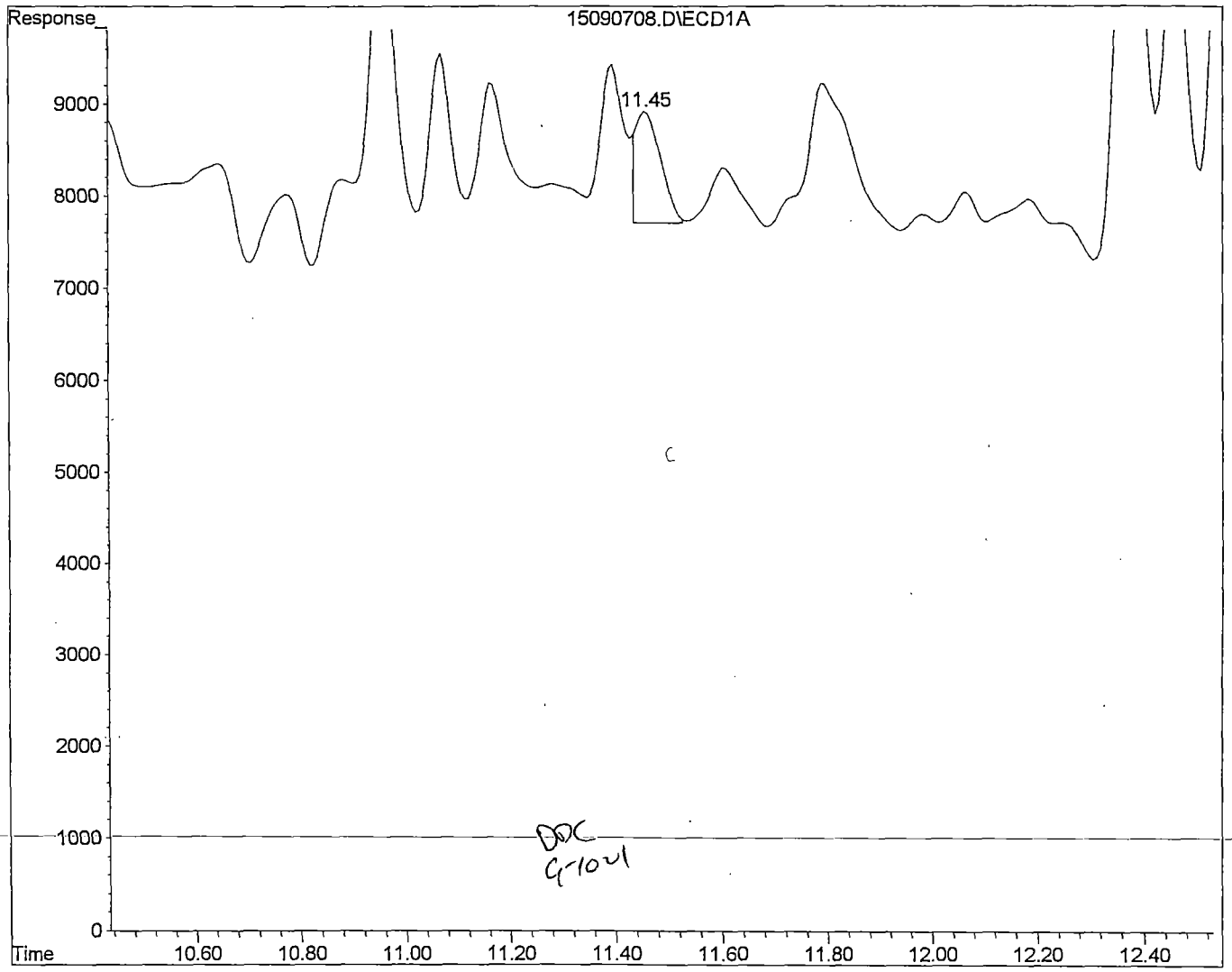
Aroclor-1242 {3} 10.38min area: 56200 m

Integration Time Range: 10.36 - 10.49

F:\HPCHEM\HP\15\DATA\09_07_01\15090708.D
Report generated: Mon Sep 10 12:40:17 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\09_07_01\15090708.D
Date Acquired: 07 Sep 2001 15:58
Inst: HP_15 Operator ID: DDC
Name: 47166.16DL *E00Z4DL *
Misc: *EPA*30.5G/5.0ML*30
Method: F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title: PCB/TOXAPHENE
Quant Time: Sep 8 8:46 2001 Quant Results File: XPCBI04.RES



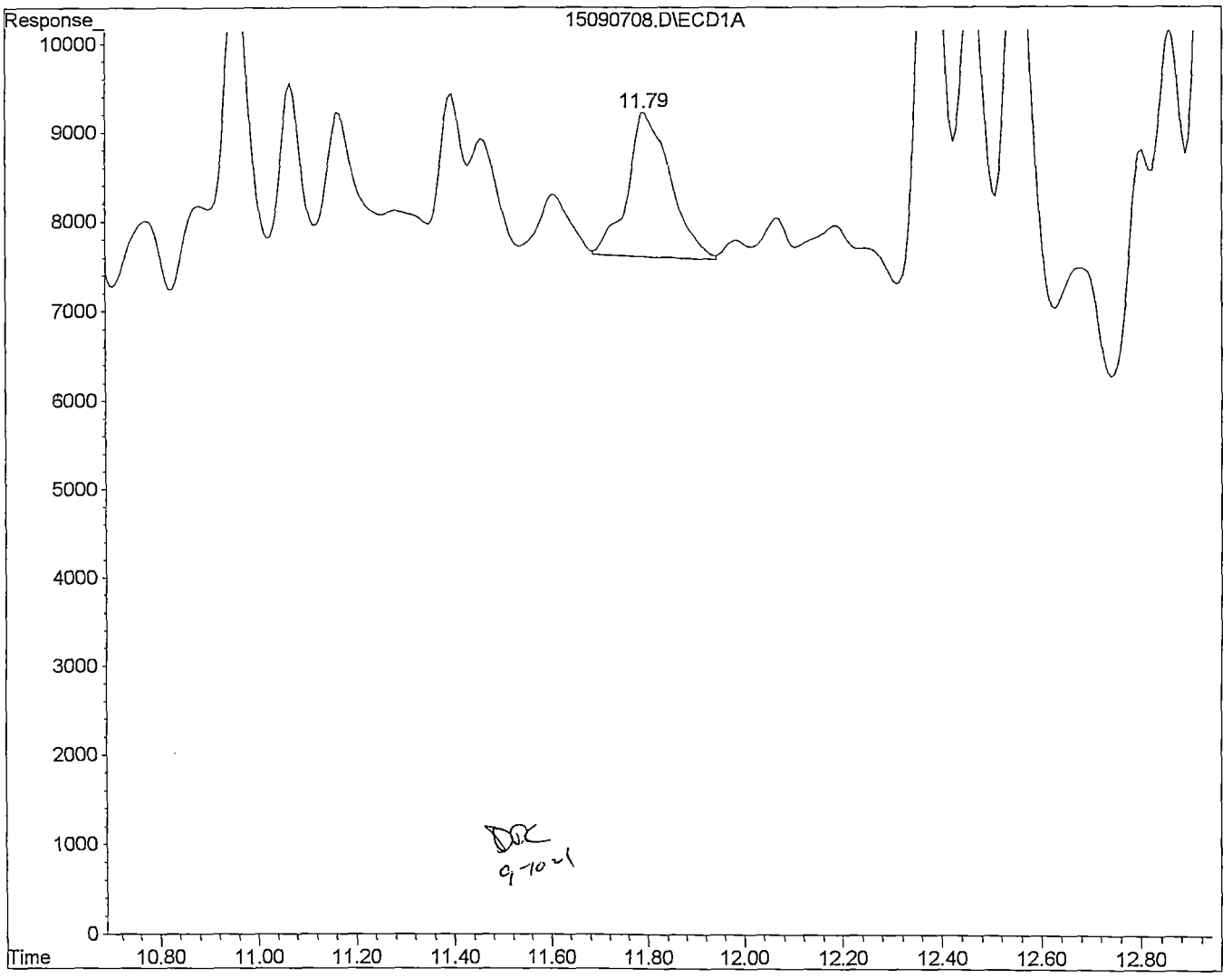
Aroclor-1242 {4} 11.45min area: 38280 m

Integration Time Range: 11.43 - 11.53

F:\HPCHEM\HP\15\DATA\09_07_01\15090708.D
Report generated: Mon Sep 10 12:40:18 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\09_07_01\15090708.D
Date Acquired: 07 Sep 2001 15:58
Inst: HP_15 Operator ID: DDC
Name: 47166.16DL *E00Z4DL *
Misc: *EPA*30.5G/5.0ML*30
Method: F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title: PCB/TOXAPHENE
Quant Time: Sep 8 8:46 2001 Quant Results File: XPCBI04.RES



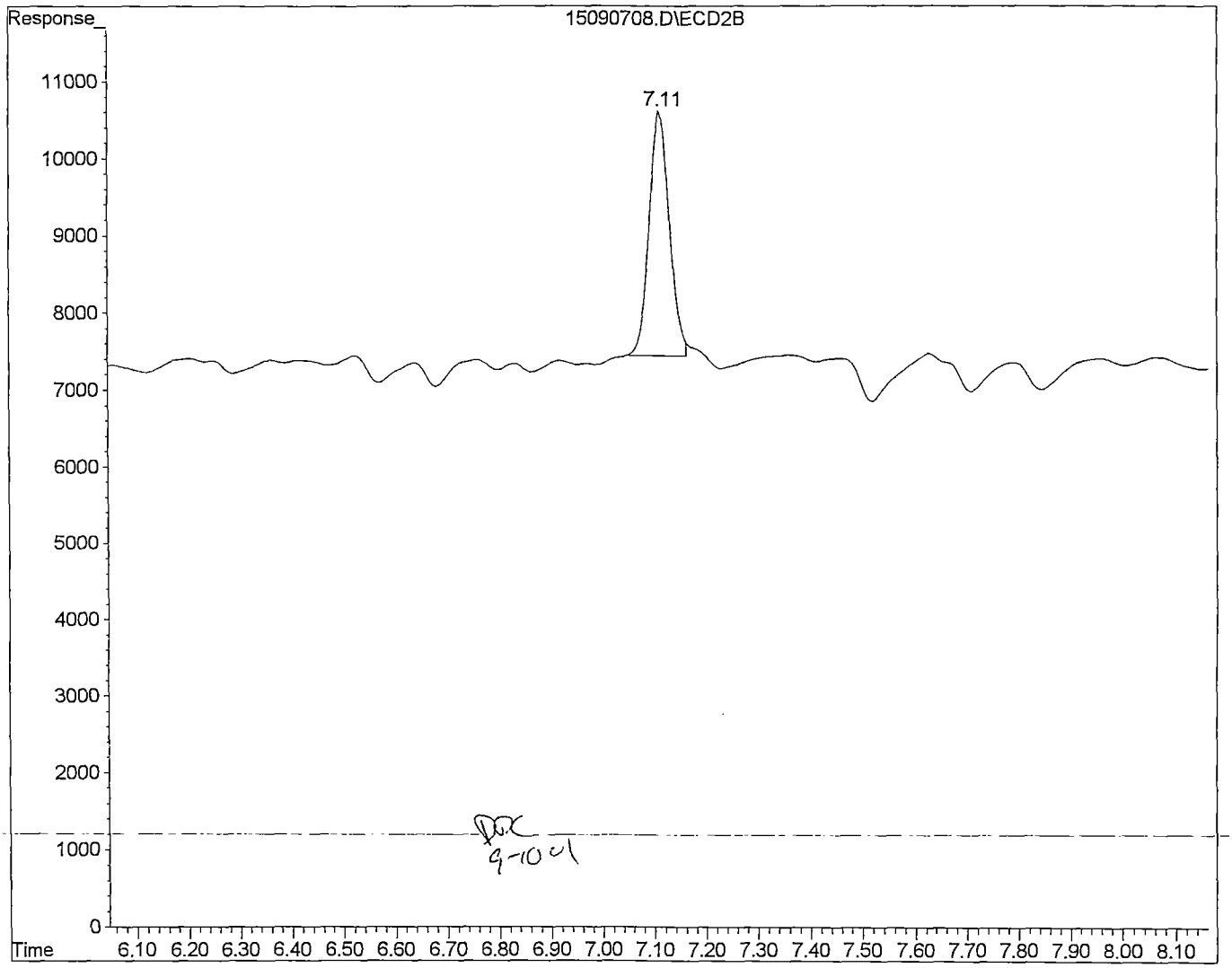
Aroclor-1242 {5} 11.79min area: 99352 m

Integration Time Range: 11.69 - 11.94

F:\HPCHEM\HP\15\DATA\09_07_01\15090708.D
Report generated: Mon Sep 10 12:40:18 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\09_07_01\15090708.D
Date Acquired: 07 Sep 2001 15:58
Inst: HP_15 Operator ID: DDC
Name: 47166.16DL *E00Z4DL *
Misc: *EPA*30.5G/5.0ML*30
Method: F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title: PCB/TOXAPHENE
Quant Time: Sep 8 8:46 2001 Quant Results File: XPCBI04.RES



TCX #2 7.11min area: 82898 m

Integration Time Range: 7.05 - 7.16

F:\HPCHEM\HP\15\DATA\09_07_01\15090708.D
Report generated: Mon Sep 10 12:40:19 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Z5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.17

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

% Moisture: 34 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/23/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	49	U J
11104-28-2	Aroclor-1221	49	U J
11141-16-5	Aroclor-1232	49	U J
53469-21-9	Aroclor-1242	150	J
12672-29-6	Aroclor-1248	49	U J
11097-69-1	Aroclor-1254	260	J
11096-82-5	Aroclor-1260	99	J
	Surrogate amount spiked	9.94	

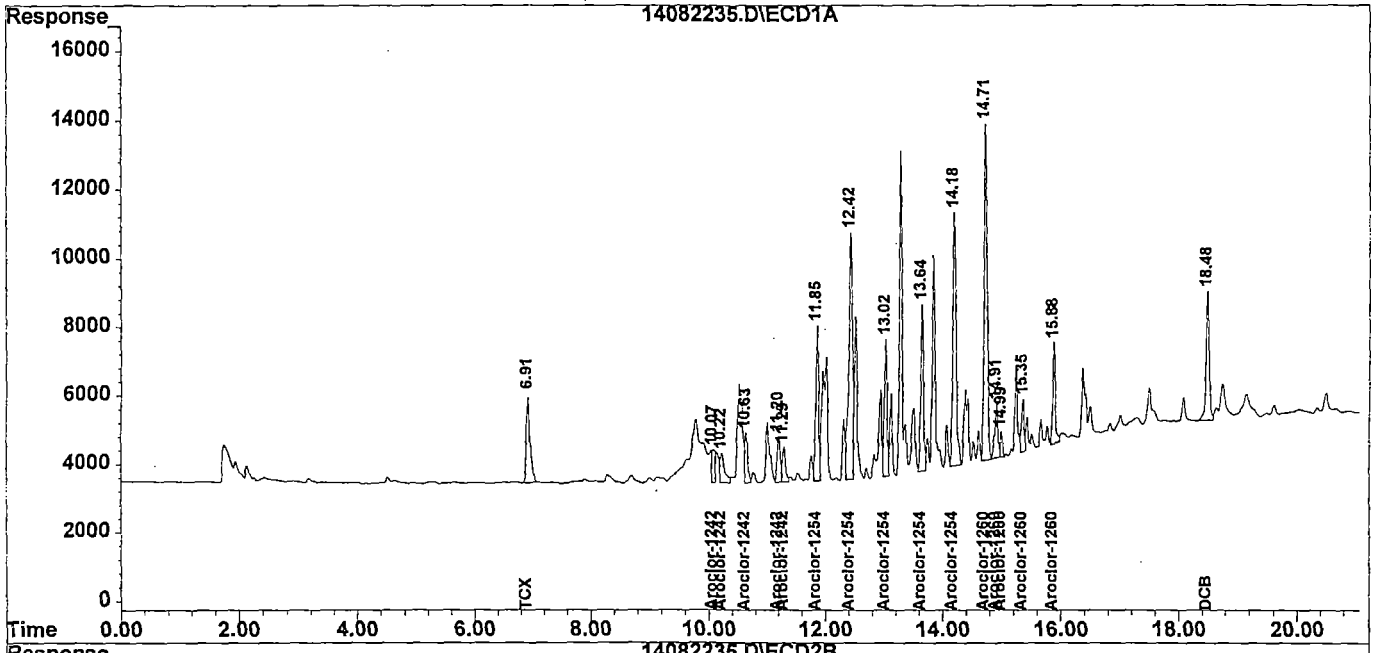
TBS
10-4-01

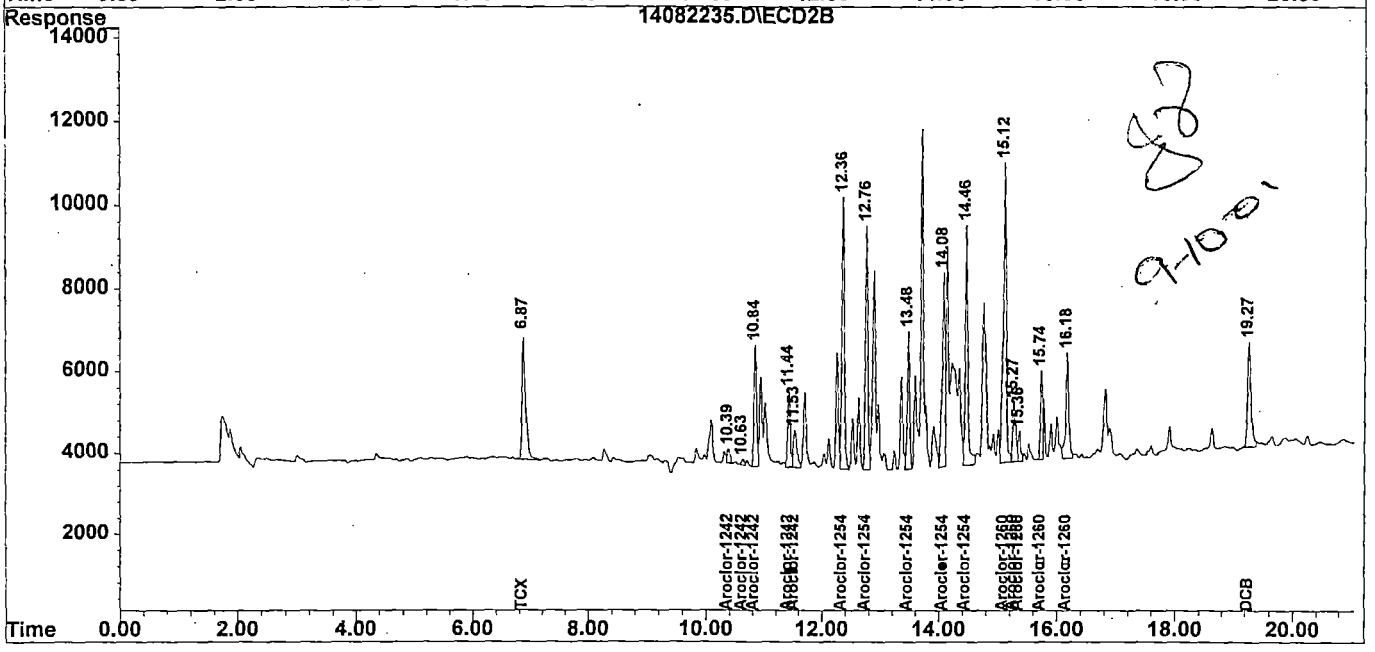
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082235.D\ECD1A.CH Vial: 35
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082235.D\ECD2B.CH
Acq On : 23 Aug 2001 00:00 Operator: TLM
Sample : 47166.17 *E00Z5 * Inst : HP_14
Misc : *EPA*30.5G/5.0ML*34 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 9:19 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082235.D\ECD1A.CH Vial: 35
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082235.D\ECD2B.CH
Acq On : 23 Aug 2001 00:00 Operator: TLM
Sample : 47166.17 *E00Z5 * Inst : HP_14
Misc : *EPA*30.5G/5.0ML*34 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 9:19 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

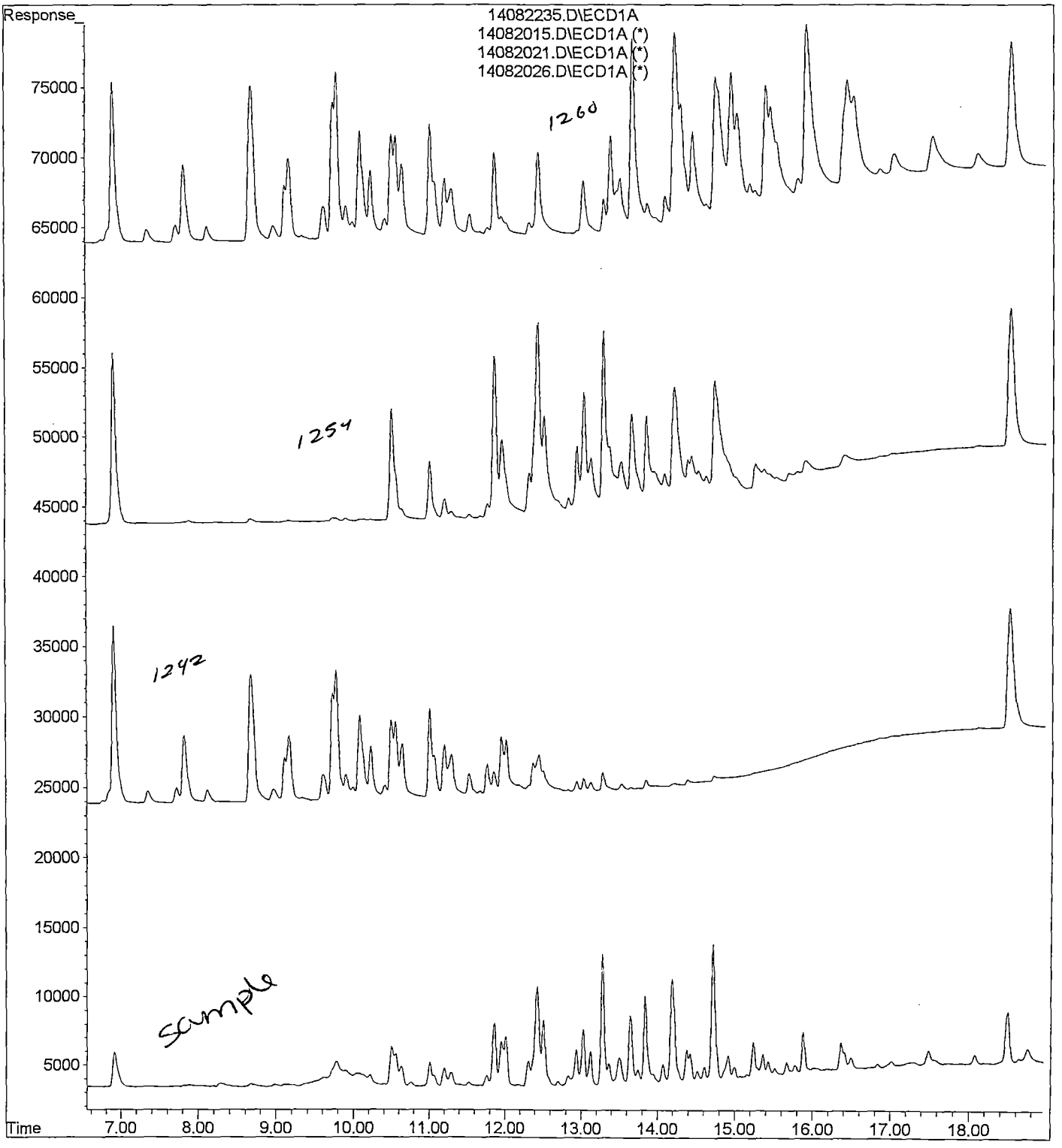
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	6.91	6.88	114969	132616	5.552	7.008	#
	Spiked Amount 9.935			Recovery	=	55.88%	70.54%	
22)	S DCB	18.49	19.27	146149	108201	7.207	8.320m	
	Spiked Amount 9.935			Recovery	=	72.54%	83.74%	
	Target Compounds:							
7)	L4 Aroclor-1242	10.07	10.39	37068	13651	70.9m	34.5	#
8)	L4 Aroclor-1242 {2}	10.22	10.63	47005	4760	164.2	23.5m	#
9)	L4 Aroclor-1242 {3}	10.63	10.84	53653	90044	165.6	336.3	#
10)	L4 Aroclor-1242 {4}	11.20	11.44	48165	61547	211.5	201.2	
11)	L4 Aroclor-1242 {5}	11.29	11.54	39328	40557	135.2	222.6	#
	Sum Aroclor-1242			225218	210559	747.5	818.0	
	Average Aroclor-1242					149.491	163.601	
12)	L6 Aroclor-1254	11.86	12.36	152428	202382	193.7	303.9	#
13)	L6 Aroclor-1254 {2}	12.42	12.76	300205	171916	251.7	266.1	
14)	L6 Aroclor-1254 {3}	13.02	13.48	132471	96129	224.8	220.5	
15)	L6 Aroclor-1254 {4}	13.64	14.09	156958	150266	290.1	373.7	#
16)	L6 Aroclor-1254 {5}	14.19	14.47	305548	181581	360.5	387.4	
	Sum Aroclor-1254			1047608	802274	1320.8	1551.5	
	Average Aroclor-1254					264.152	310.307	
17)	L7 Aroclor-1260	14.71	15.12	349546	258991	262.0	235.5	
18)	L7 Aroclor-1260 {2}	14.91	15.27	59062	53585	75.0	86.2	
19)	L7 Aroclor-1260 {3}	15.00	15.36	19196	21738	29.6	51.2	#
20)	L7 Aroclor-1260 {4}	15.36	15.73f	45717	60436	78.9	98.2m	
21)	L7 Aroclor-1260 {5}	15.88	16.17	87214	91292	48.5	78.5m	#
	Sum Aroclor-1260			560734	486042	245.4	273.0	
	Average Aroclor-1260					98.784	109.914	

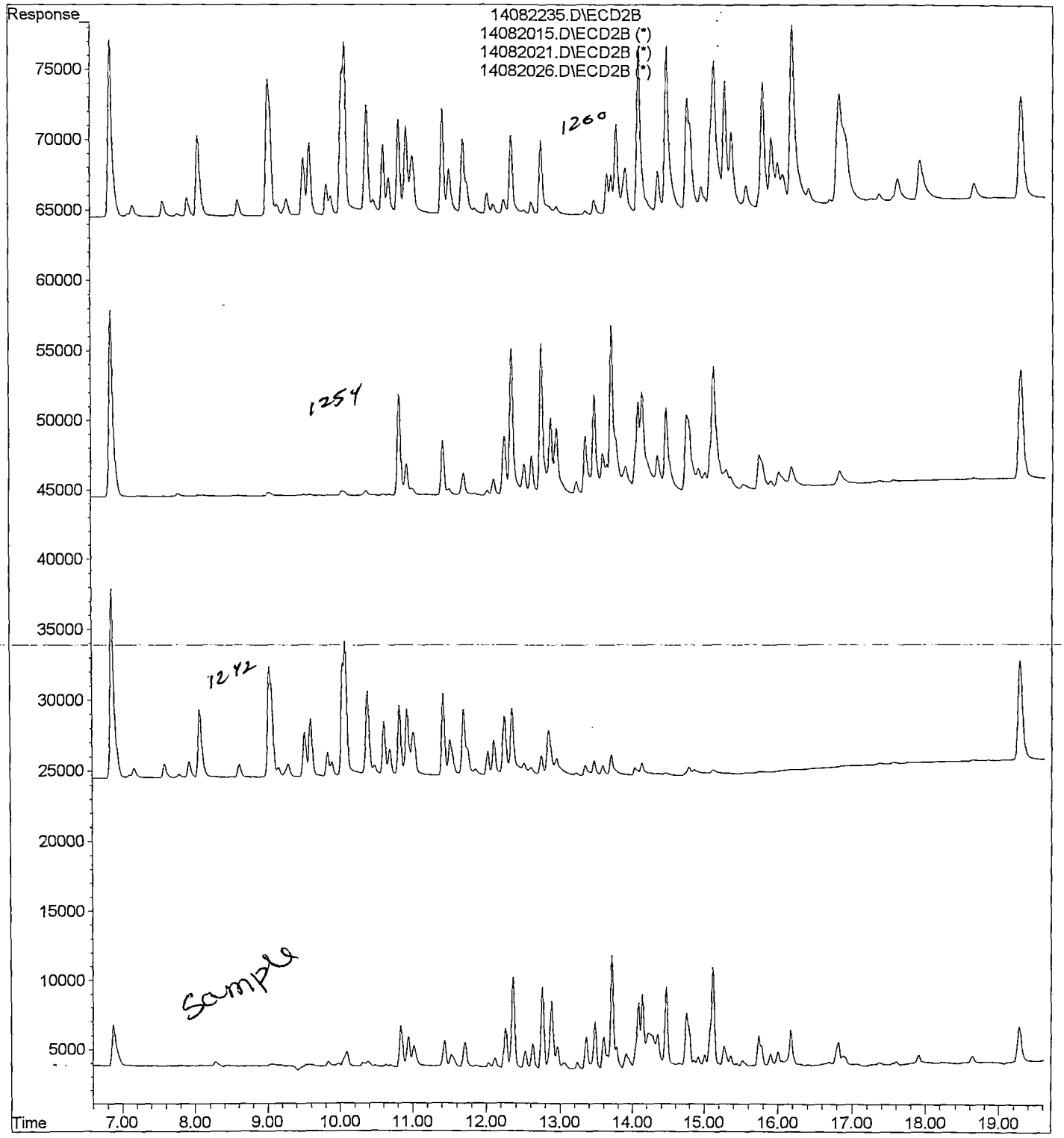
JM 9-7-01

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

File : F:\HPCHEM\HP\14\DATA\08_22_01\14082235.D
Operator : TLM
Acquired : 23 Aug 2001 00:00 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.17 *E00Z5 *
Misc Info : *EPA*30.5G/5.0ML*34
Vial Number: 35

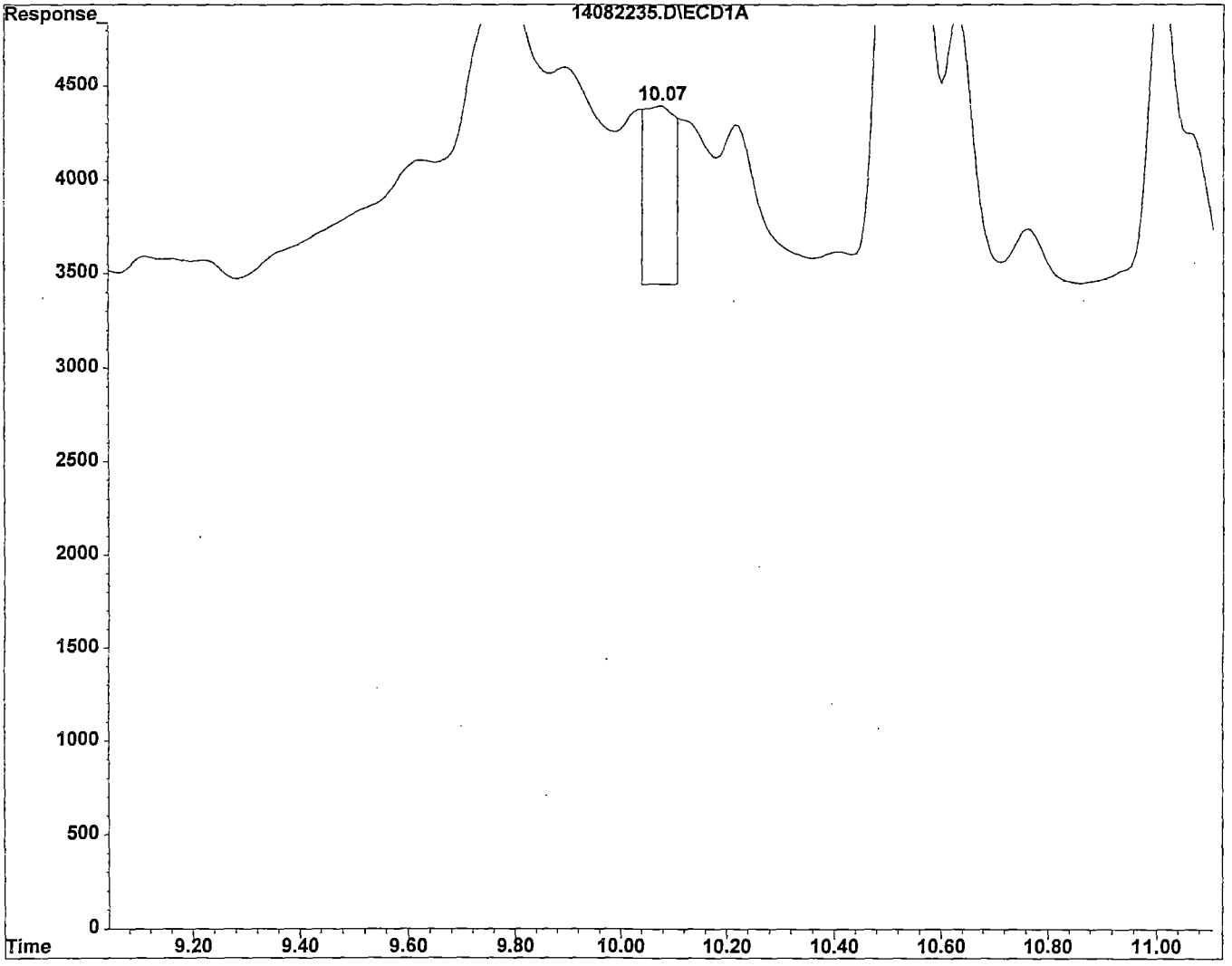


File : F:\HPCHEM\HP\14\DATA\08_22_01\14082235.D
Operator : TLM
Acquired : 23 Aug 2001 00:00 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.17 *E00Z5 *
Misc Info : *EPA*30.5G/5.0ML*34
Vial Number: 35



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082235.D
Date Acquired: 23 Aug 2001 00:00
Inst: HP_14 Operator ID: TLM
Name: 47166.17 *E00Z5 *
Misc: *EPA*30.5G/5.0ML*34
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:19 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 10.07min area: 37068 m

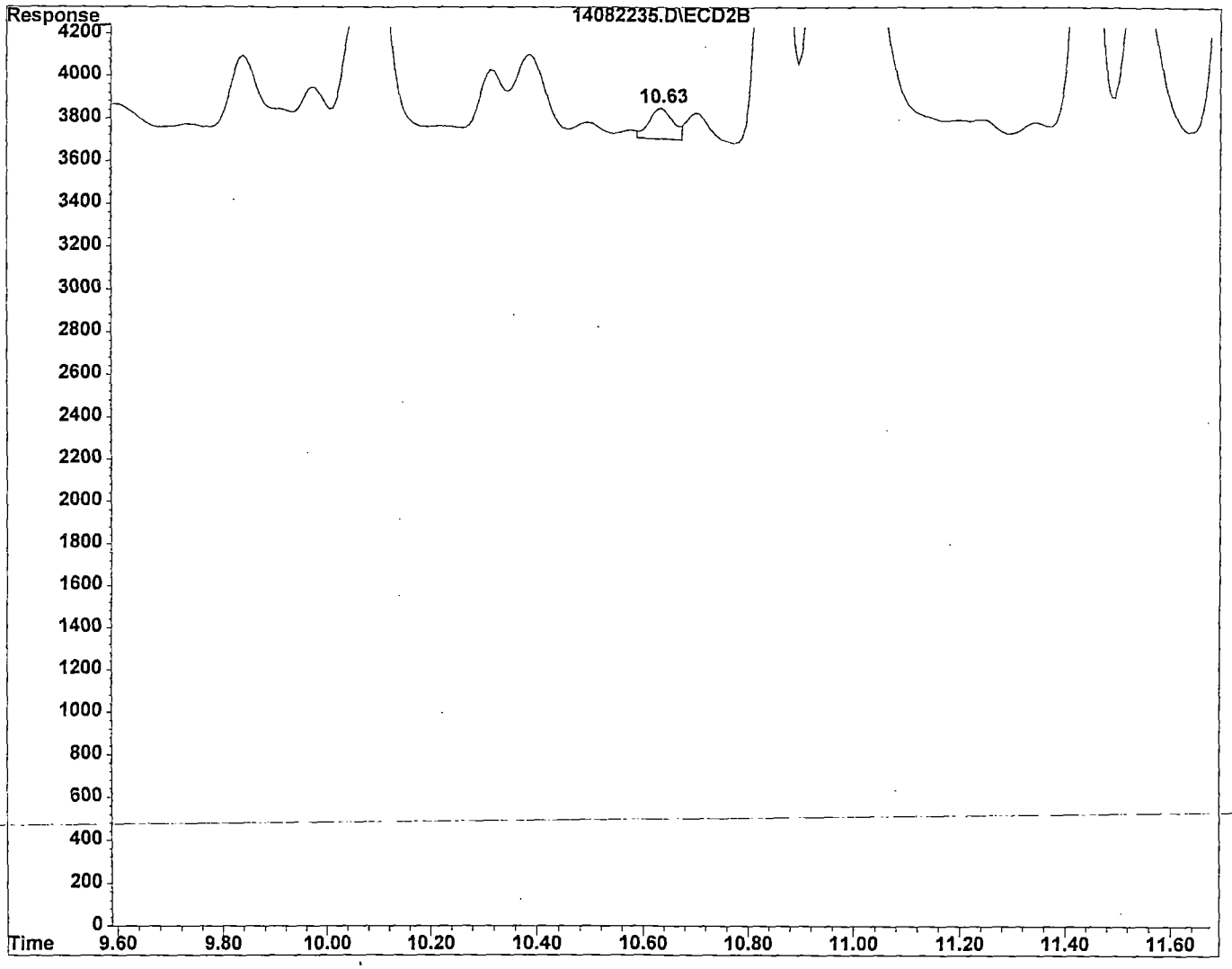
Integration Time Range: 10.04 - 10.10

JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082235.D
Report generated: Fri Sep 07 09:35:57 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082235.D
Date Acquired: 23 Aug 2001 00:00
Inst: HP_14 Operator ID: TLM
Name: 47166.17 *E00Z5 *
Misc: *EPA*30.5G/5.0ML*34
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:19 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {2} #2 10.63min area: 4760 m

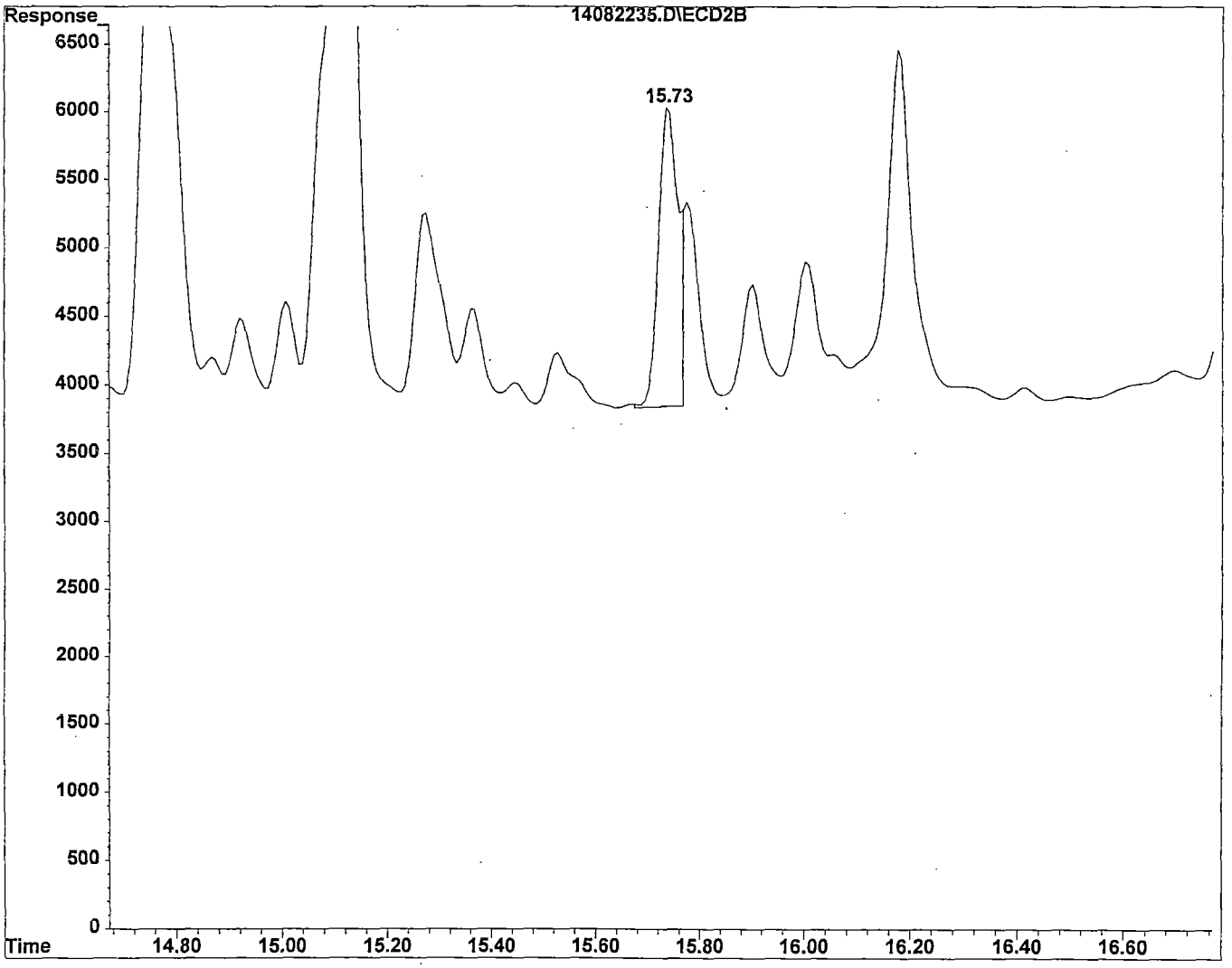
Integration Time Range: 10.59 - 10.67

JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082235.D
Report generated: Fri Sep 07 09:35:58 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082235.D
Date Acquired: 23 Aug 2001 00:00
Inst: HP_14 Operator ID: TLM
Name: 47166.17 *E00Z5 *
Misc: *EPA*30.5G/5.0ML*34
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:19 2001 Quant Results File: XPCBH20.RES



Aroclor-1260 {4} #2 15.73min area: 60436 m

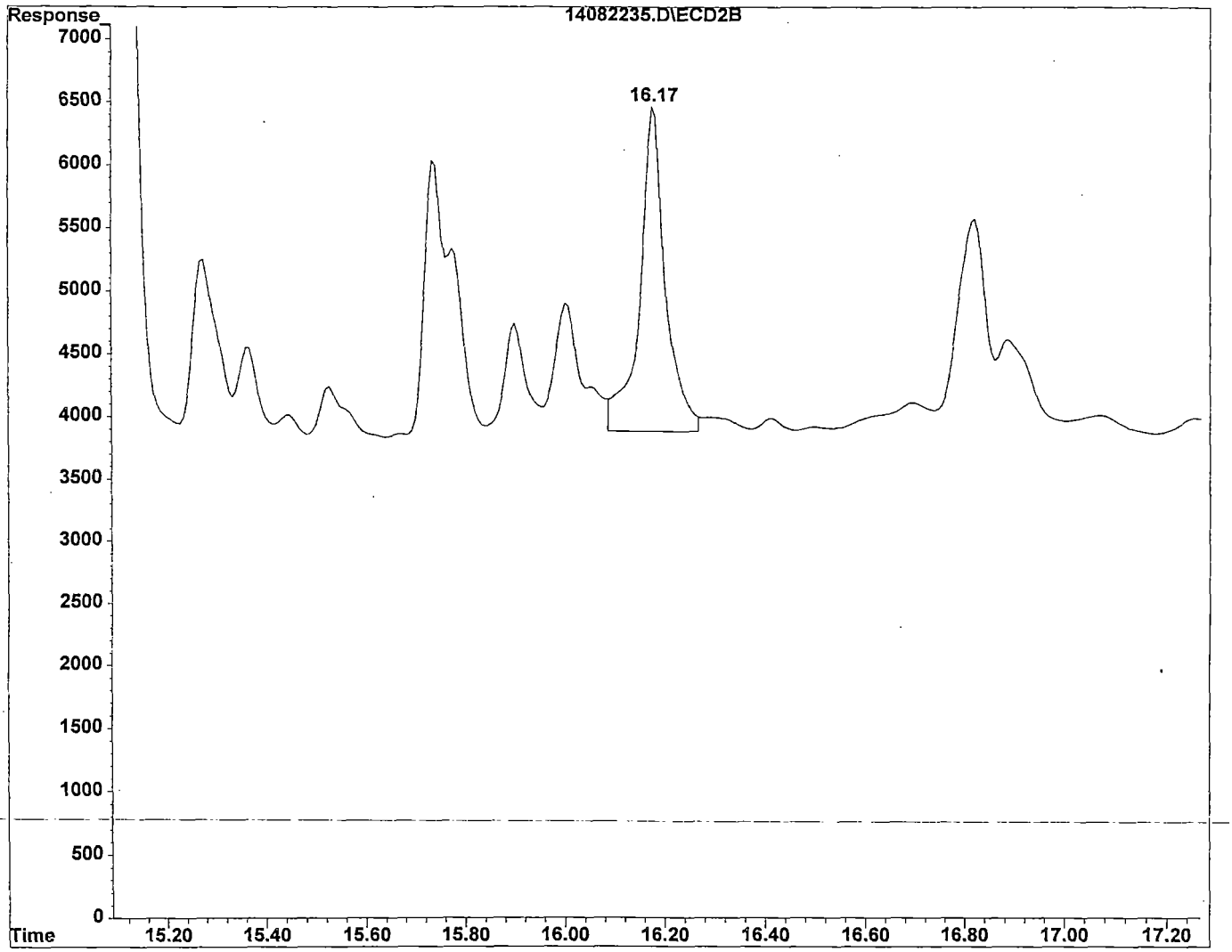
Integration Time Range: 15.67 - 15.77

TM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082235.D
Report generated: Fri Sep 07 09:35:59 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082235.D
Date Acquired: 23 Aug 2001 00:00
Inst: HP_14 Operator ID: TLM
Name: 47166.17 *E00Z5 *
Misc: *EPA*30.5G/5.0ML*34
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:19 2001 Quant Results File: XPCBH20.RES



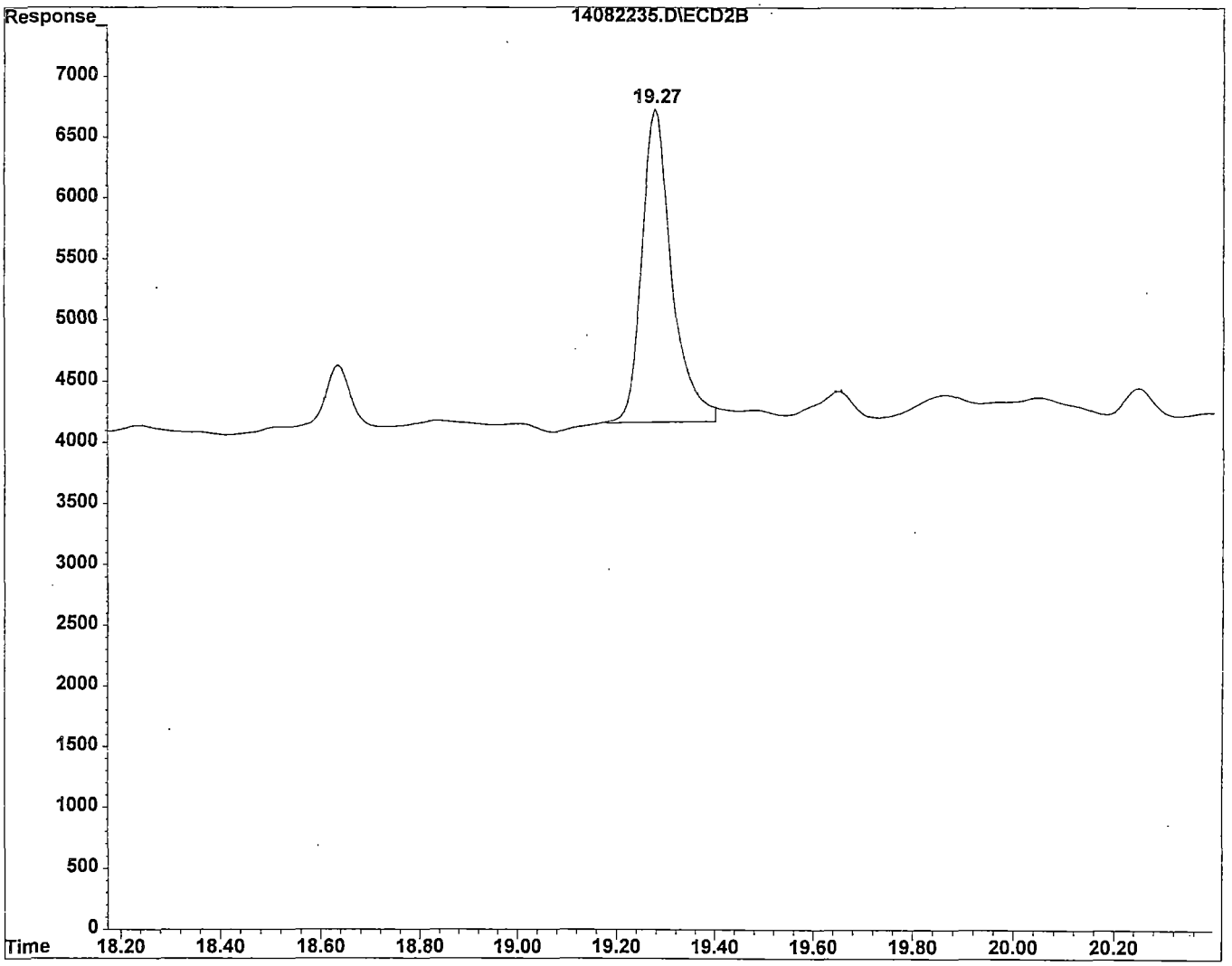
Aroclor-1260 {5} #2 16.17min area: 91292 m

Integration Time Range: 16.09 - 16.27 JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082235.D
Report generated: Fri Sep 07 09:35:59 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082235.D
Date Acquired: 23 Aug 2001 00:00
Inst: HP_14 Operator ID: TLM
Name: 47166.17 *E00Z5 *
Misc: *EPA*30.5G/5.0ML*34
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:19 2001 Quant Results File: XPCBH20.RES



DCB #2 19.27min area: 108201 m

Integration Time Range: 19.17 - 19.40 JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082235.D
Report generated: Fri Sep 07 09:36:00 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Z6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.18

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

% Moisture: 41 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/23/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	55	U J
11104-28-2	Aroclor-1221	55	U J
11141-16-5	Aroclor-1232	55	U J
53469-21-9	Aroclor-1242	110	J
12672-29-6	Aroclor-1248	55	U J
11097-69-1	Aroclor-1254	270	J
11096-82-5	Aroclor-1260	100	J
Surrogate amount spiked		11.19	

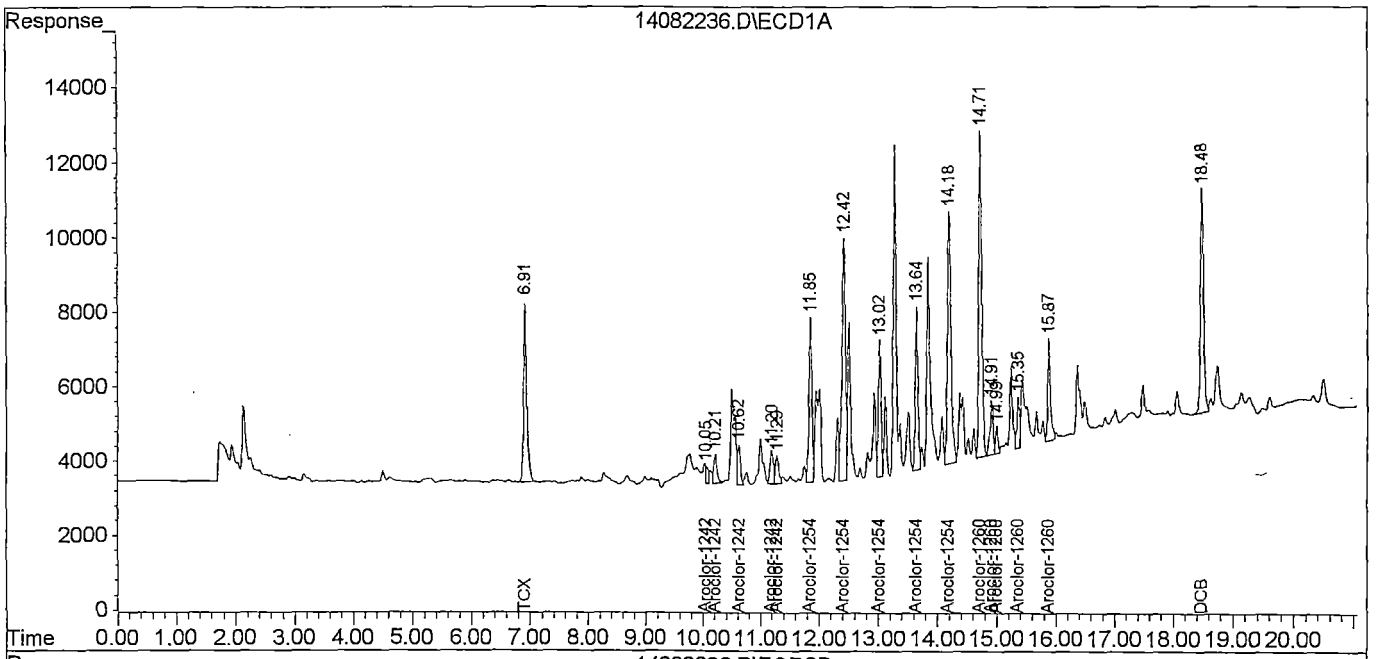
TBS
10-4-01

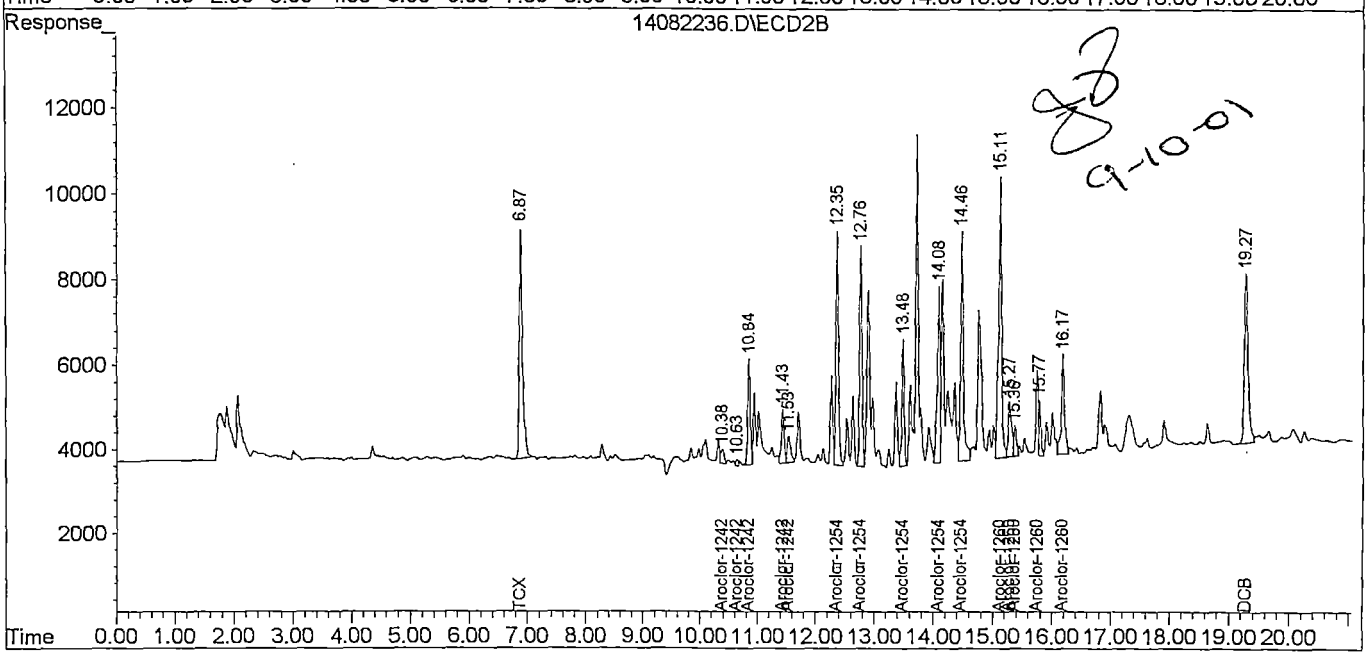
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D\ECD1A.CH Vial: 36
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D\ECD2B.CH
Acq On : 23 Aug 2001 00:24 Operator: TLM
Sample : 47166.18 *E00Z6 * Inst : HP_14
Misc : *EPA*30.3G/5.0ML*41 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 11:25 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D\ECD1A.CH Vial: 36
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D\ECD2B.CH
Acq On : 23 Aug 2001 00:24 Operator: TLM
Sample : 47166.18 *E00Z6 * Inst : HP_14
Misc : *EPA*30.3G/5.0ML*41 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 11:25 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

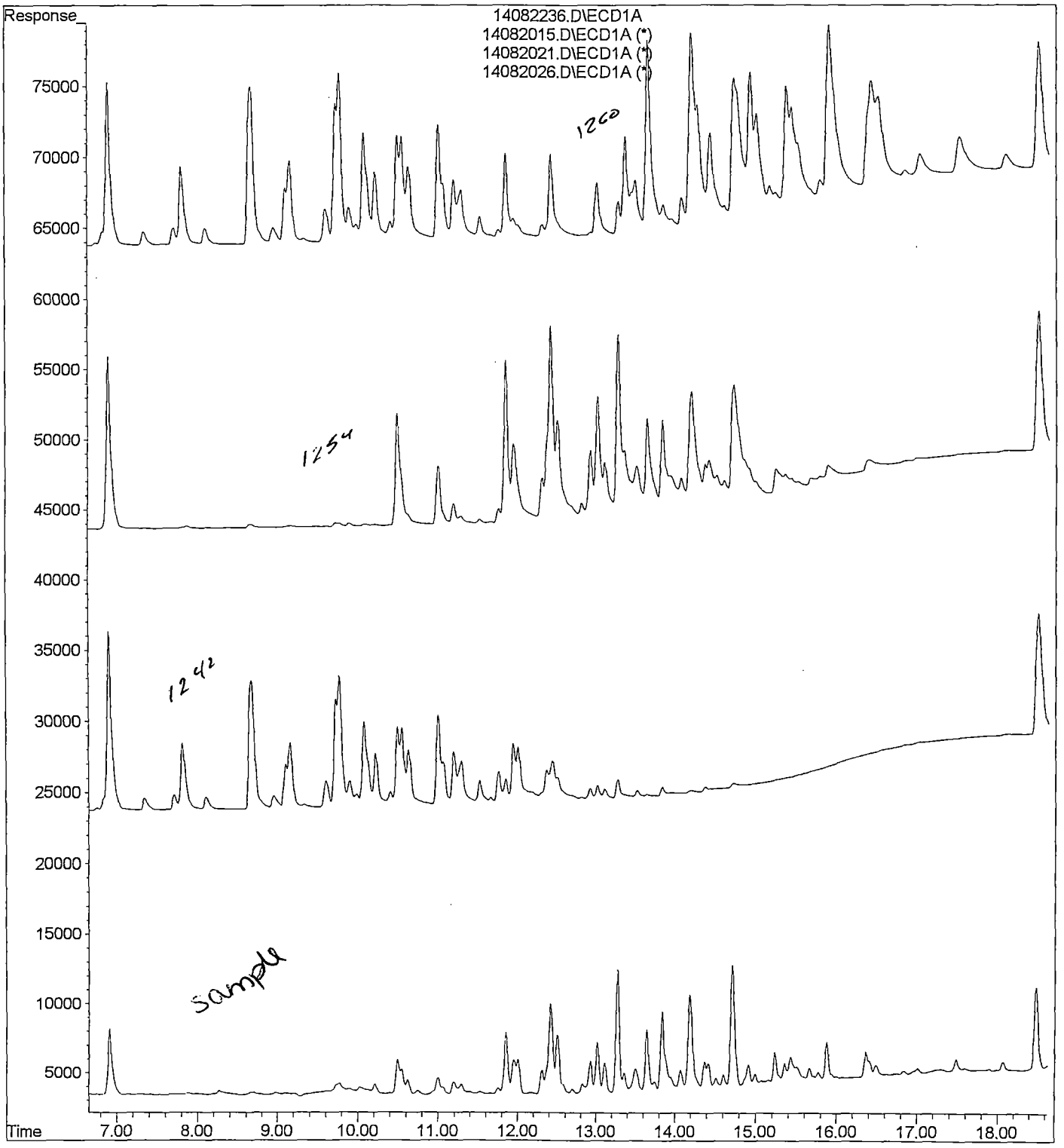
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	6.91	6.87	180163	194948	9.797	11.6	
	Spiked Amount 11.188			Recovery	=	87.57%	103.69%	
22)	S DCB	18.48	19.27	224062	173084	12.4	15.0m	
	Spiked Amount 11.188			Recovery	=	110.84%	134.08%	
	Target Compounds:							
7)	L4 Aroclor-1242	10.05	10.38	12640	12860	27.2m	36.6m	#
8)	L4 Aroclor-1242 {2}	10.21	10.63	29124	4592	114.6m	25.5m	#
9)	L4 Aroclor-1242 {3}	10.63	10.83	35604	78476	123.8m	330.0m	#
10)	L4 Aroclor-1242 {4}	11.20	11.43	35773	42848	176.9	157.7	
11)	L4 Aroclor-1242 {5}	11.29	11.53	30884	27366	119.6	169.1	#
	Sum Aroclor-1242			144026	166142	562.0	718.9	
	Average Aroclor-1242					112.397	143.785	
12)	L6 Aroclor-1254	11.85	12.36	149050	167975	213.2	284.0	#
13)	L6 Aroclor-1254 {2}	12.42	12.76	267317	150238	252.4	261.8	
14)	L6 Aroclor-1254 {3}	13.02	13.48	117604	87059	224.8	224.9	
15)	L6 Aroclor-1254 {4}	13.64	14.08	138304	132735	287.8	371.7	#
16)	L6 Aroclor-1254 {5}	14.18	14.46	284501	172455	378.0	414.3	
	Sum Aroclor-1254			956775	710462	1356.1	1556.7	
	Average Aroclor-1254					271.228	311.335	
17)	L7 Aroclor-1260	14.71	15.12	308465	237125	260.4	242.7	
18)	L7 Aroclor-1260 {2}	14.91	15.27	52163	50096	74.6	90.7	
19)	L7 Aroclor-1260 {3}	15.00	15.36	20797	23799	36.1	63.1	#
20)	L7 Aroclor-1260 {4}	15.36	15.75	40997	34948	79.6	63.9m	
21)	L7 Aroclor-1260 {5}	15.88	16.17	86324	89404	54.0	86.6m	#
	Sum Aroclor-1260			508747	435373	282.3	306.1	
	Average Aroclor-1260					100.935	109.428	

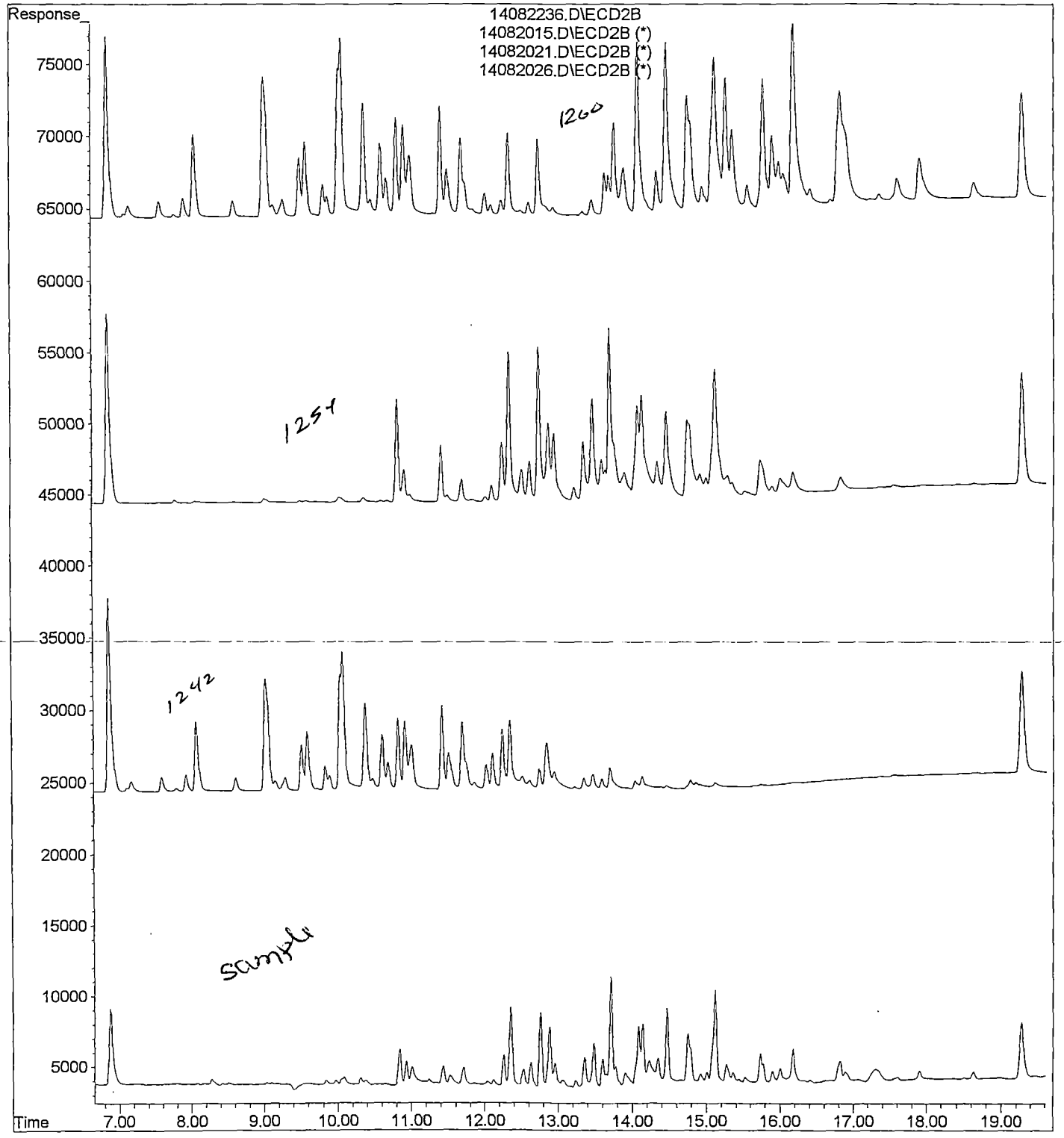
JM
9-7-01

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

File : F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D
Operator : TLM
Acquired : 23 Aug 2001 00:24 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.18 *E00Z6 *
Misc Info : *EPA*30.3G/5.0ML*41
Vial Number: 36

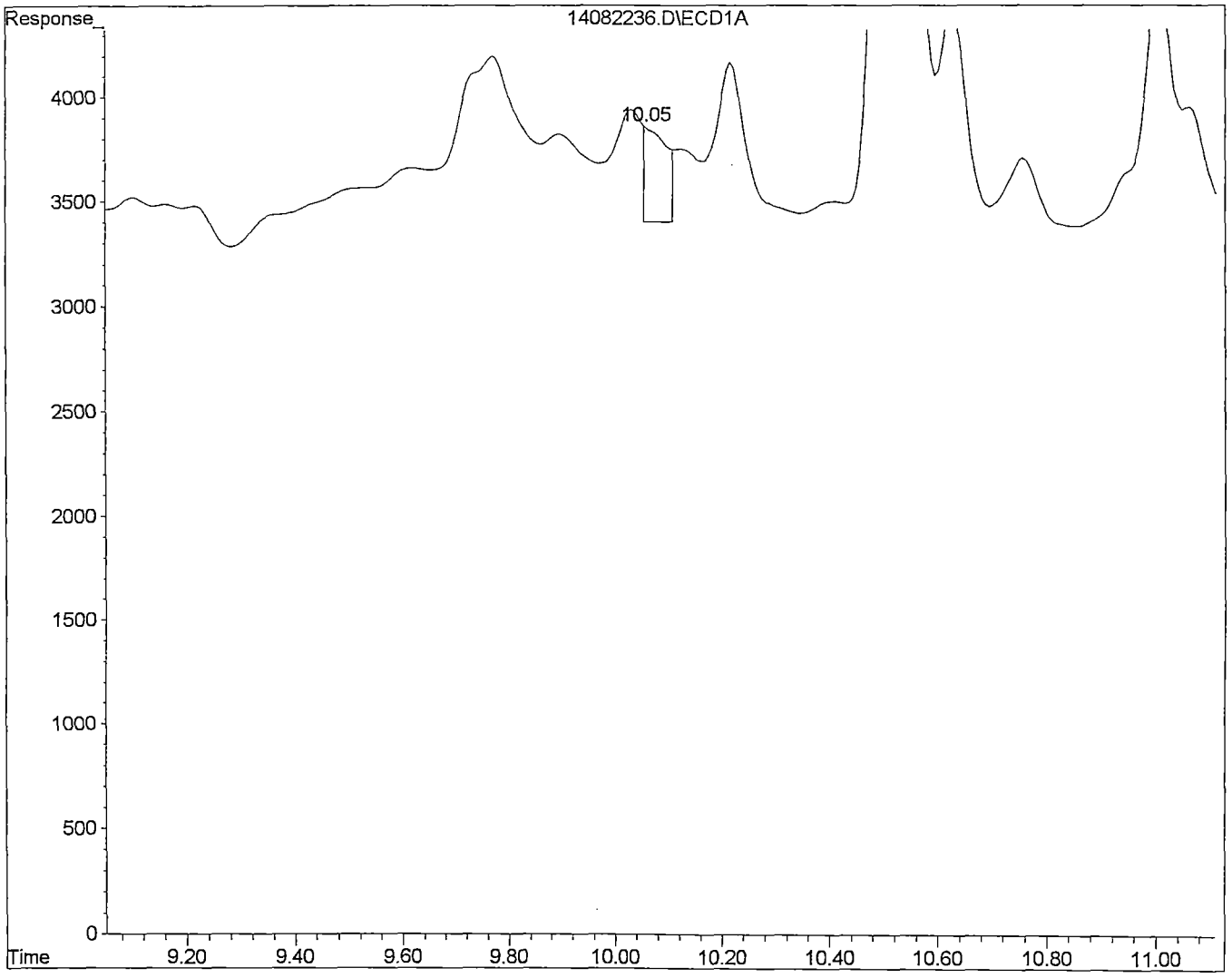


File : F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D
Operator : TLM
Acquired : 23 Aug 2001 00:24 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.18 *E00Z6 *
Misc Info : *EPA*30.3G/5.0ML*41
Vial Number: 36



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D
Date Acquired: 23 Aug 2001 00:24
Inst: HP_14 Operator ID: TLM
Name: 47166.18 *E00Z6 *
Misc: *EPA*30.3G/5.0ML*41
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 11:25 2001 Quant Results File: XPCBH20.RES



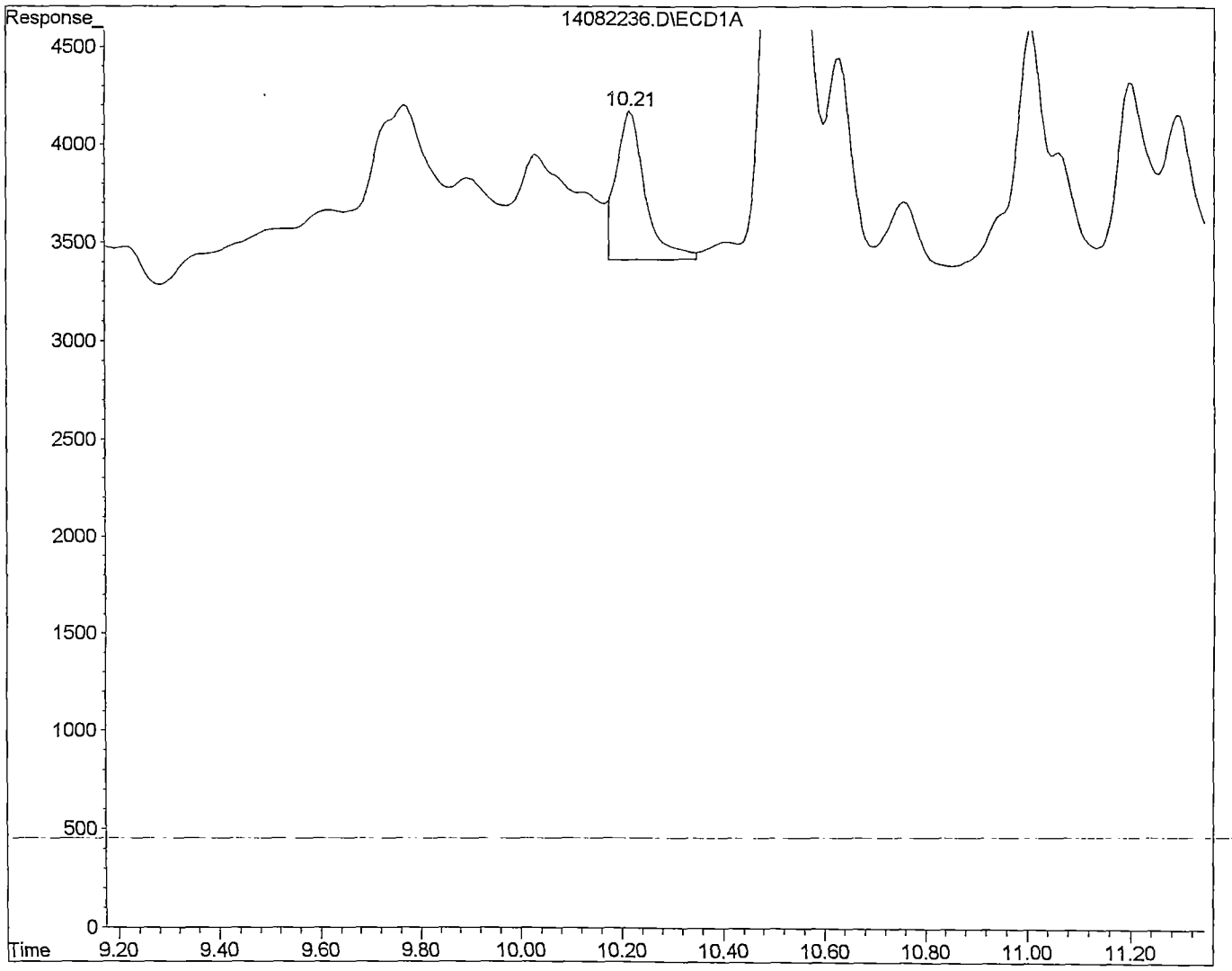
Aroclor-1242 10.05min area: 12640 m

Integration Time Range: 10.05 - 10.11 JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D
Report generated: Fri Sep 07 11:26:36 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D
Date Acquired: 23 Aug 2001 00:24
Inst: HP_14 Operator ID: TLM
Name: 47166.18 *E00Z6 *
Misc: *EPA*30.3G/5.0ML*41
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 11:25 2001 Quant Results File: XPCBH20.RES



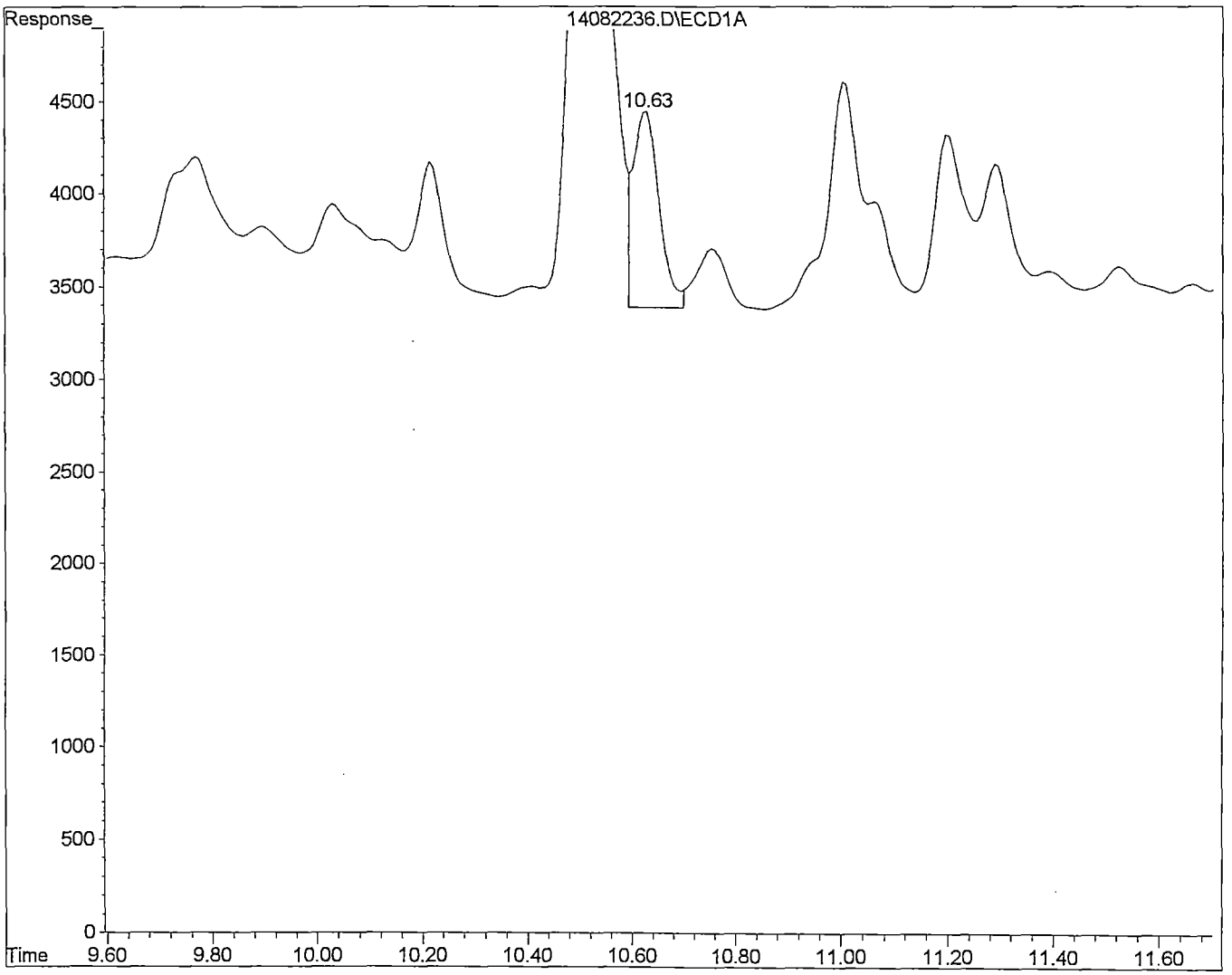
Aroclor-1242 {2} 10.21min area: 29124 m

Integration Time Range: 10.17 - 10.34 JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D
Report generated: Fri Sep 07 11:26:37 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D
Date Acquired: 23 Aug 2001 00:24
Inst: HP_14 Operator ID: TLM
Name: 47166.18 *E00Z6 *
Misc: *EPA*30.3G/5.0ML*41
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 11:25 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {3} 10.63min area: 35604 m

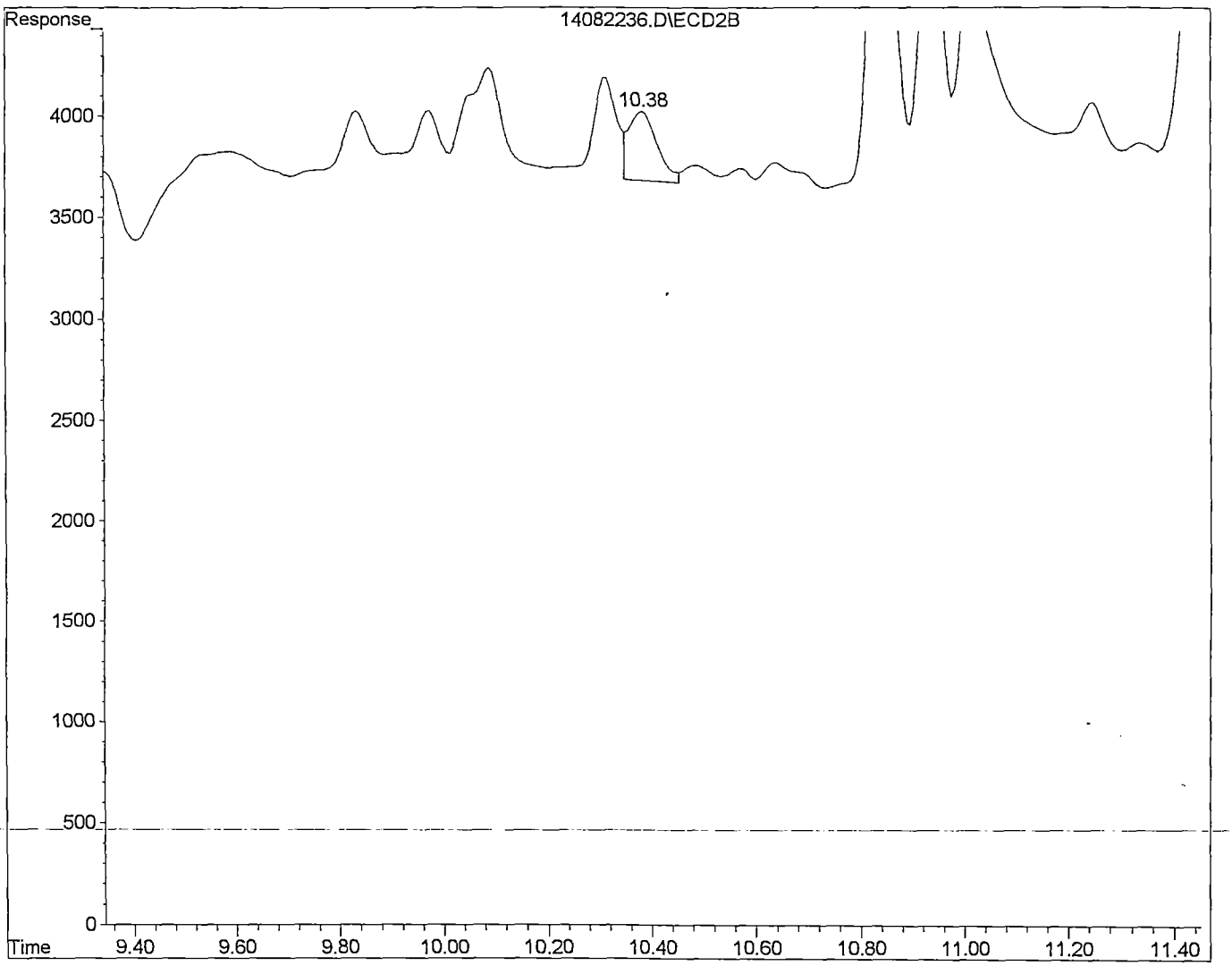
Integration Time Range: 10.59 - 10.70

JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D
Report generated: Fri Sep 07 11:26:37 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D
Date Acquired: 23 Aug 2001 00:24
Inst: HP_14 Operator ID: TLM
Name: 47166.18 *E00Z6 *
Misc: *EPA*30.3G/5.0ML*41
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 11:25 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 #2 10.38min area: 12860 m

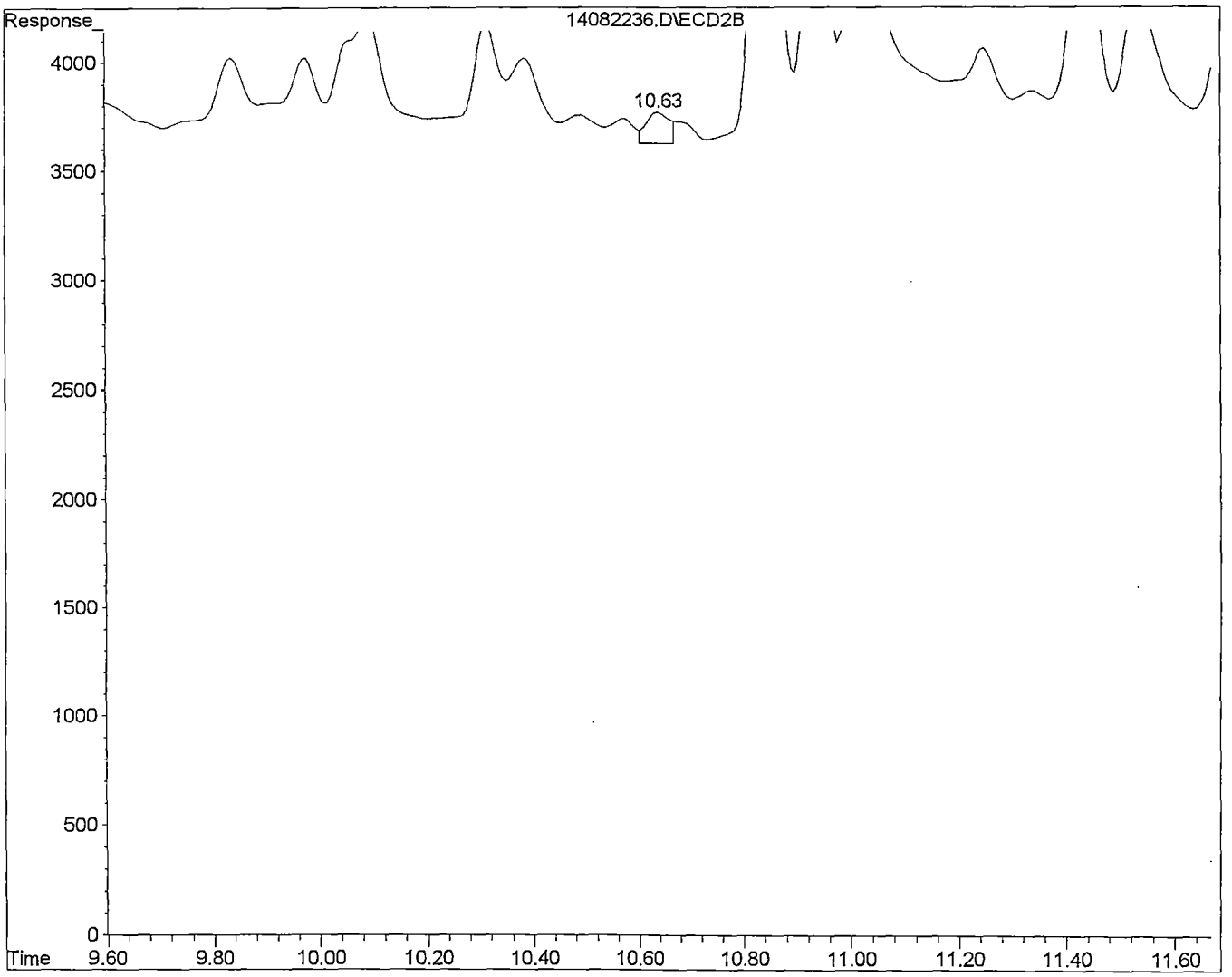
Integration Time Range: 10.34 - 10.45

JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D
Report generated: Fri Sep 07 11:26:38 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D
Date Acquired: 23 Aug 2001 00:24
Inst: HP_14 Operator ID: TLM
Name: 47166.18 *E00Z6 *
Misc: *EPA*30.3G/5.0ML*41
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 11:25 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {2} #2 10.63min area: 4592 m

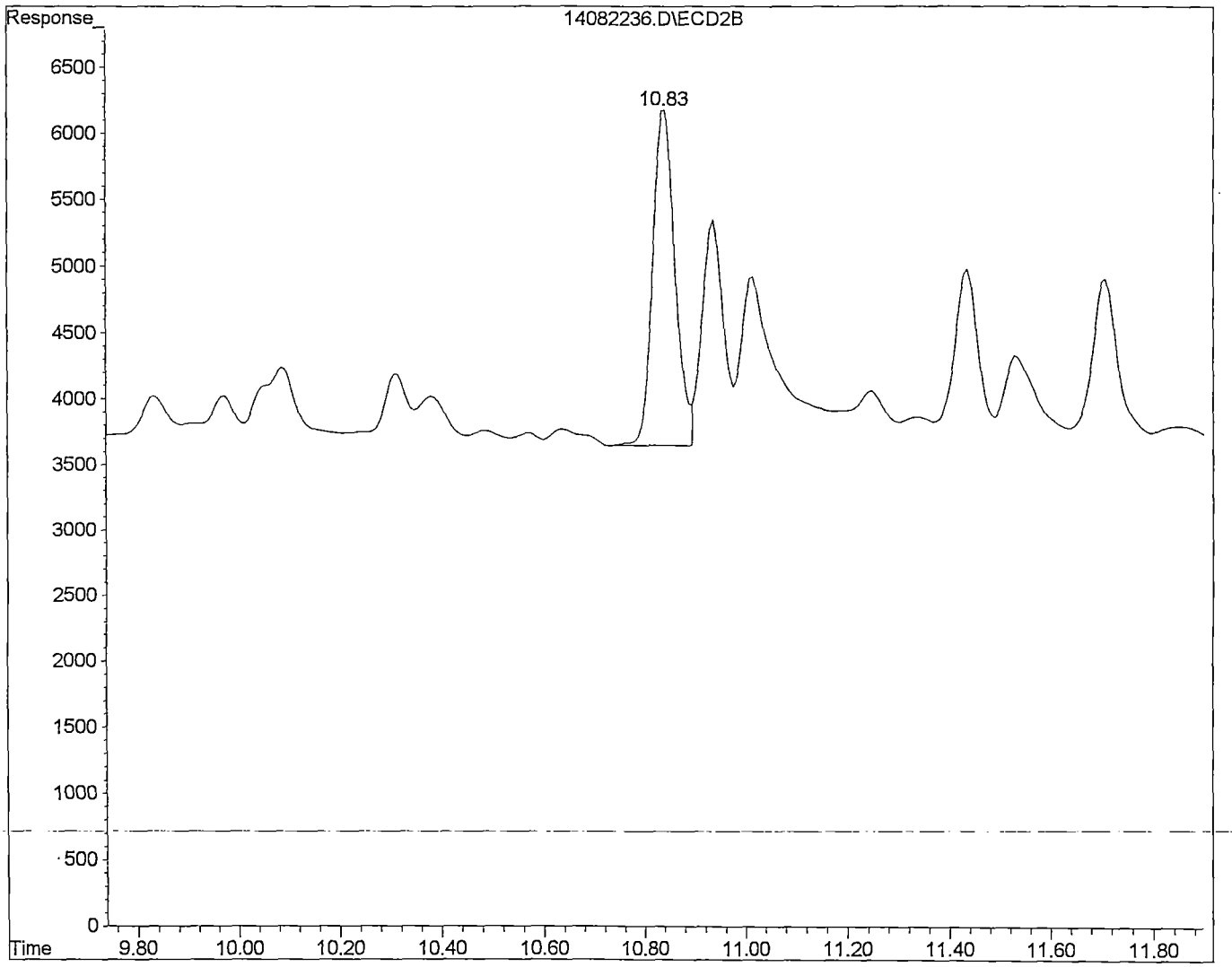
Integration Time Range: 10.60 - 10.67

JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D
Report generated: Fri Sep 07 11:26:39 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D
Date Acquired: 23 Aug 2001 00:24
Inst: HP_14 Operator ID: TLM
Name: 47166.18 *E00Z6 *
Misc: *EPA*30.3G/5.0ML*41
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 11:25 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {3} #2 10.83min area: 78476 m

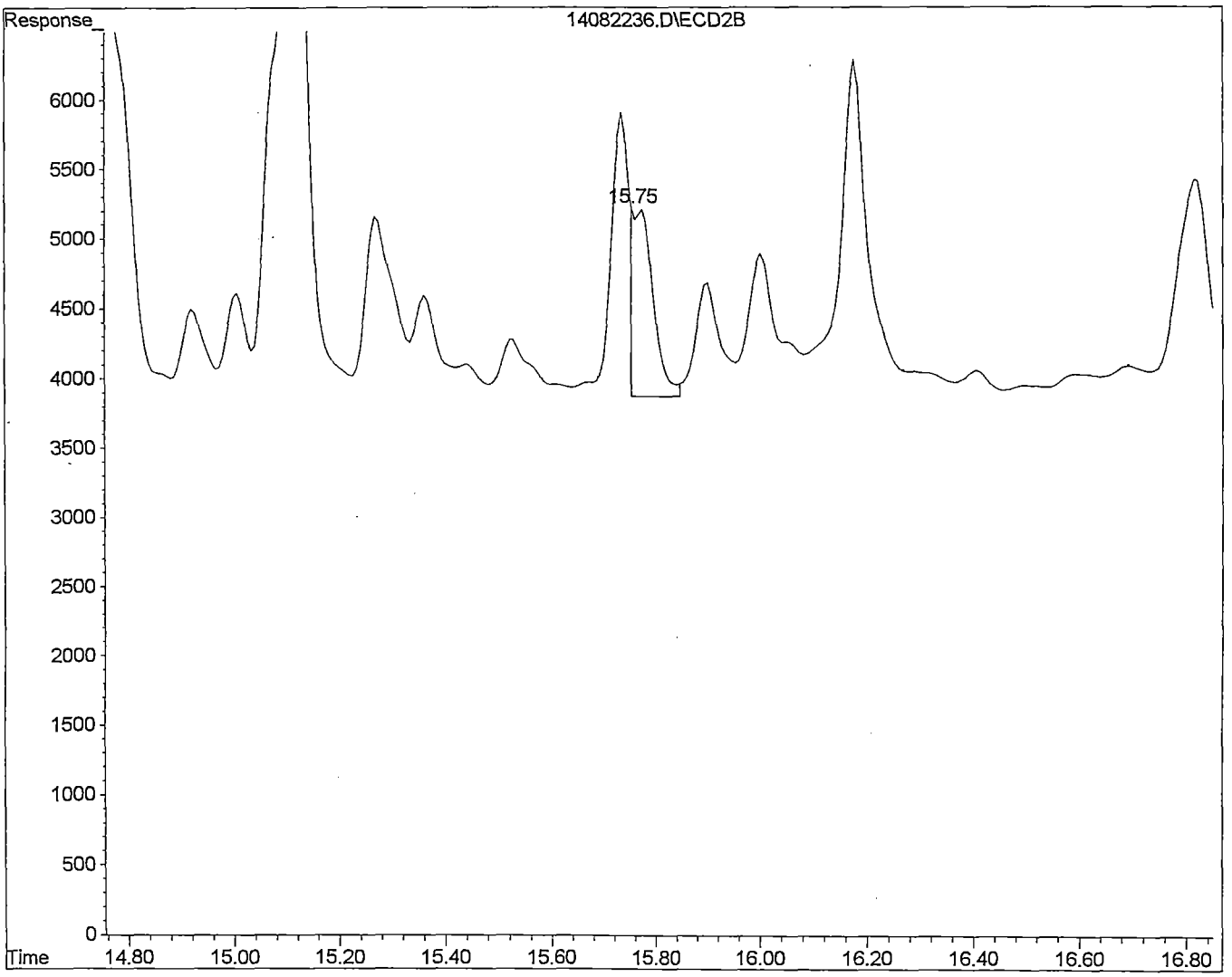
Integration Time Range: 10.74 - 10.90

JM
9-7-01
JM

F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D
Report generated: Fri Sep 07 11:26:40 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D
Date Acquired: 23 Aug 2001 00:24
Inst: HP_14 Operator ID: TLM
Name: 47166.18 *E00Z6 *
Misc: *EPA*30.3G/5.0ML*41
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 11:25 2001 Quant Results File: XPCBH20.RES



Aroclor-1260 {4} #2 15.75min area: 34948 m

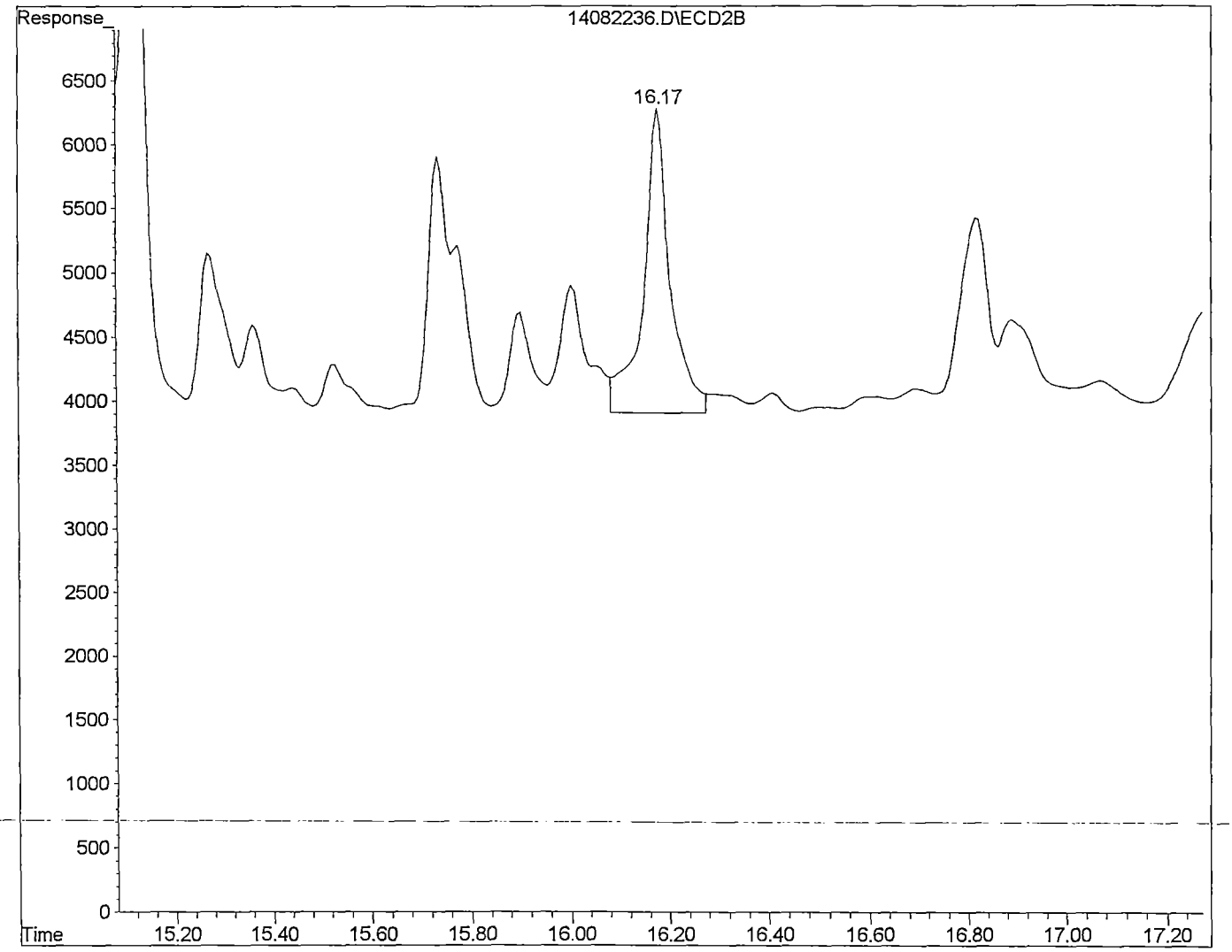
Integration Time Range: 15.76 - 15.85

JM
~~9-19-01~~
9-7-01
JM

F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D
Report generated: Fri Sep 07 11:26:40 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D
Date Acquired: 23 Aug 2001 00:24
Inst: HP_14 Operator ID: TLM
Name: 47166.18 *E00Z6 *
Misc: *EPA*30.3G/5.0ML*41
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 11:25 2001 Quant Results File: XPCBH20.RES



Aroclor-1260 {5} #2 16.17min area: 89404 m

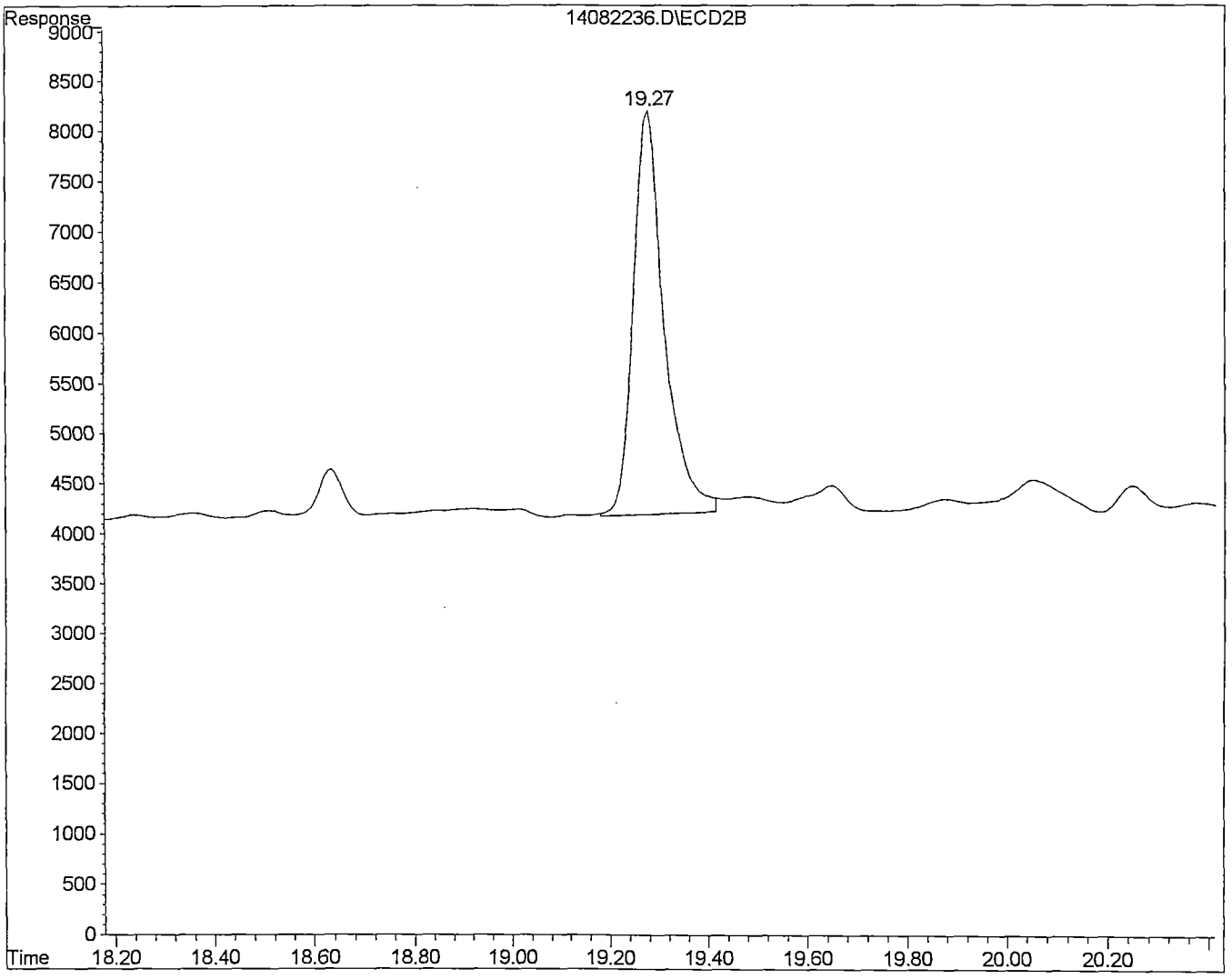
Integration Time Range: 16.08 - 16.27 7m

~~9-17-0~~
9-7-01
3m

F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D
Report generated: Fri Sep 07 11:26:41 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D
Date Acquired: 23 Aug 2001 00:24
Inst: HP_14 Operator ID: TLM
Name: 47166.18 *E00Z6 *
Misc: *EPA*30.3G/5.0ML*41
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 11:25 2001 Quant Results File: XPCBH20.RES



DCB #2 19.27min area: 173084 m

Integration Time Range: 19.18 - 19.41

9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082236.D
Report generated: Fri Sep 07 11:26:42 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Z7

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.19

Sample wt/vol: 30.7 (g/mL) G Lab File ID:_____

% Moisture: 30 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/27/01

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

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	46	UJ
11104-28-2	Aroclor-1221	46	UJ
11141-16-5	Aroclor-1232	46	UJ
53469-21-9	Aroclor-1242	46	UJ
12672-29-6	Aroclor-1248	46	UJ
11097-69-1	Aroclor-1254	41	J
11096-82-5	Aroclor-1260	23	J
Surrogate amount spiked		9.31	

TBS
10-4-01

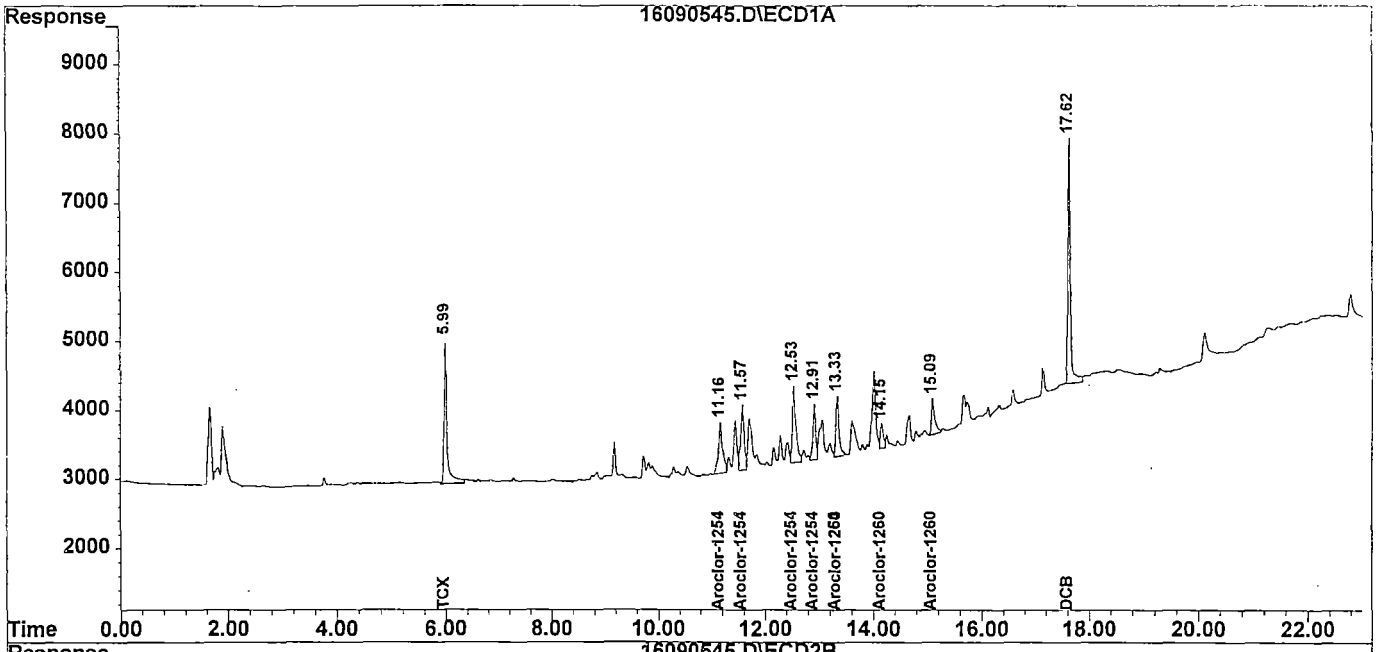
FORM I PCB

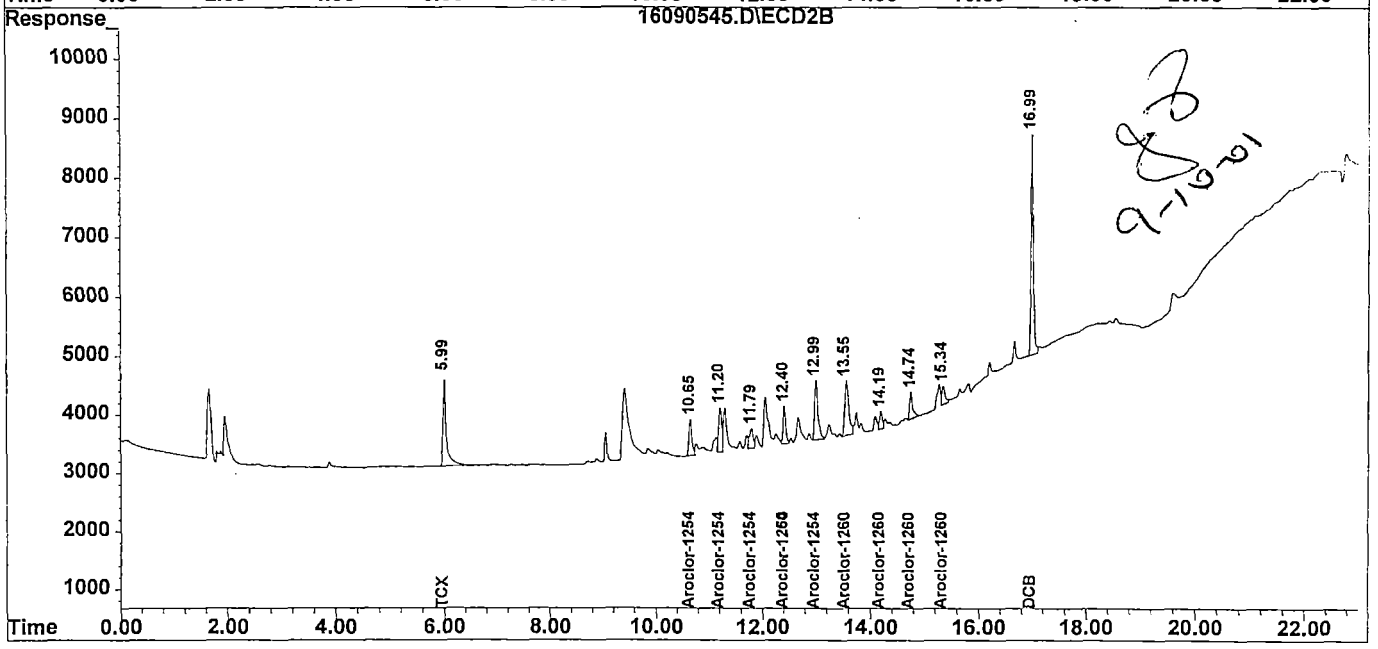
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090545.D\ECD1A.CH Vial: 45
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090545.D\ECD2B.CH
Acq On : 06 Sep 2001 11:54 Operator: DDC
Sample : 47166.19 *E00Z7 * Inst : HP_16
Misc : *EPA*30.7G/5.0ML*30 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 13:24 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090545.D\ECD1A.CH Vial: 45
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090545.D\ECD2B.CH
Acq On : 06 Sep 2001 11:54 Operator: DDC
Sample : 47166.19 *E00Z7 * Inst : HP_16
Misc : *EPA*30.7G/5.0ML*30 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 13:24 2001 Quant Results File: XPCBI05.RES

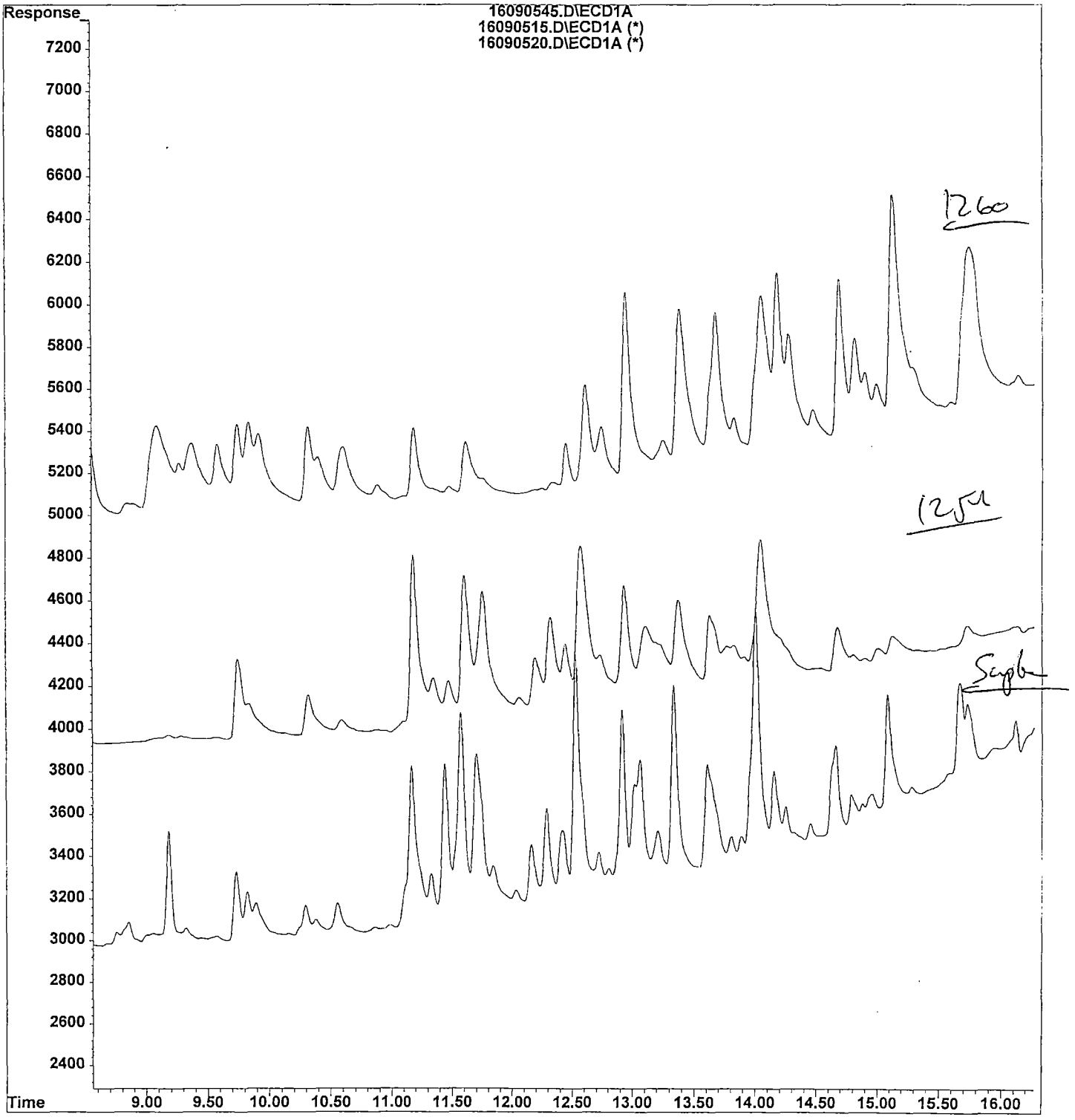
Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.99	6.00	80139	68559	6.152	5.097	
	Spiked Amount 9.307			Recovery	=	66.10%	54.77%	
22)	S DCB	17.63	16.99	117378	111864	5.653	5.803	
	Spiked Amount 9.307			Recovery	=	60.74%	62.35%	
	Target Compounds:							
12)	L6 Aroclor-1254	11.17	10.65	40573	23815	47.2	40.0	
13)	L6 Aroclor-1254 {2}	11.57	11.21	43484	30605	60.8	43.2	#
14)	L6 Aroclor-1254 {3}	12.53	11.79	52246	16848	47.7	30.7	#
15)	L6 Aroclor-1254 {4}	12.92	12.41	28860	22640	47.5	42.2	
16)	L6 Aroclor-1254 {5}	13.34	12.99	34619	46021	50.3	49.8	
	Sum Aroclor-1254			199782	139929	253.6	205.9	
	Average Aroclor-1254					50.717	41.174	
17)	L7 Aroclor-1260	13.34f	12.41	34619	22640	34.2	24.4	#
18)	L7 Aroclor-1260 {2}	0.00	13.55f	0	48891	N.D.	42.7	#
19)	L7 Aroclor-1260 {3}	14.16	14.19	13788	10936	19.3	18.9	
20)	L7 Aroclor-1260 {4}	0.00	14.74	0	18581	N.D. d	11.8	#
21)	L7 Aroclor-1260 {5}	15.09f	15.34	23021	13261	15.6	18.8	
	Sum Aroclor-1260			71429	114310	32.2	54.2	
	Average Aroclor-1260					23.038	23.297	

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

File : F:\HPCHEM\HP\16\DATA\09_05_01\16090545.D
Operator : DDC
Acquired : 06 Sep 2001 11:54 using AcqMethod OLM03.M
Instrument : HP_16
Sample Name: 47166.19
Misc Info :
Vial Number: 45



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Z8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.20

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

% Moisture: 35 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/23/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	51	U J
11104-28-2	Aroclor-1221	51	U J
11141-16-5	Aroclor-1232	51	U J
53469-21-9	Aroclor-1242	70	J
12672-29-6	Aroclor-1248	51	U J
11097-69-1	Aroclor-1254	150	J P
11096-82-5	Aroclor-1260	70	J
Surrogate amount spiked		10.26	

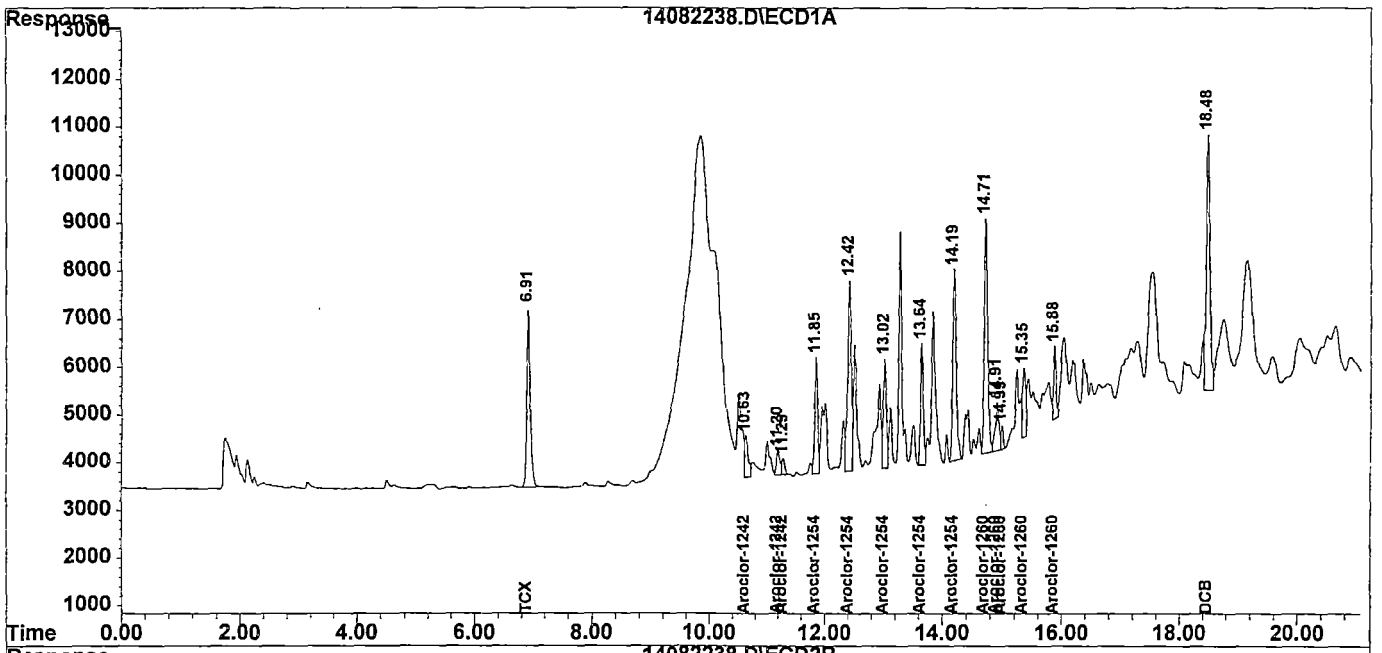
TBS
10-4-01

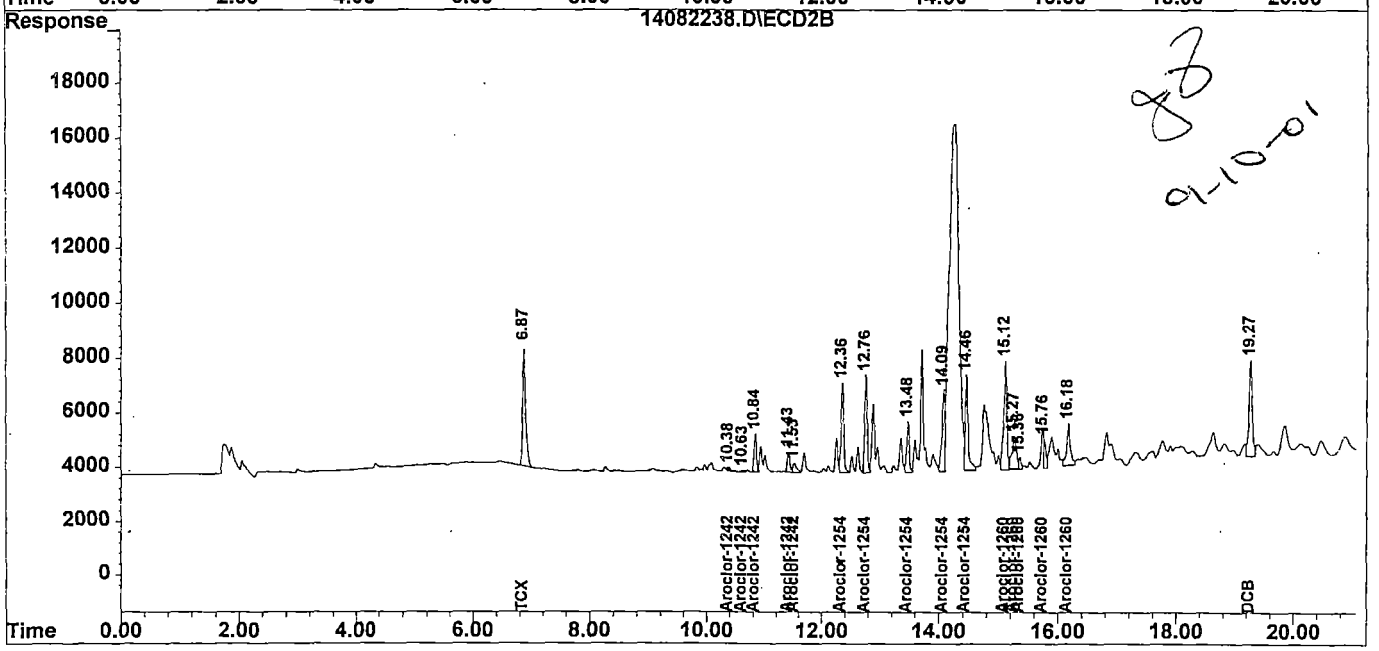
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082238.D\ECD1A.CH Vial: 38
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082238.D\ECD2B.CH
Acq On : 23 Aug 2001 1:12 Operator: TLM
Sample : 47166.20 *E00Z8 * Inst : HP_14
Misc : *EPA*30G/5.0ML*35 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 9:31 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082238.D\ECD1A.CH Vial: 38
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082238.D\ECD2B.CH
Acq On : 23 Aug 2001 1:12 Operator: TLM
Sample : 47166.20 *E00Z8 * Inst : HP_14
Misc : *EPA*30G/5.0ML*35 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 9:31 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

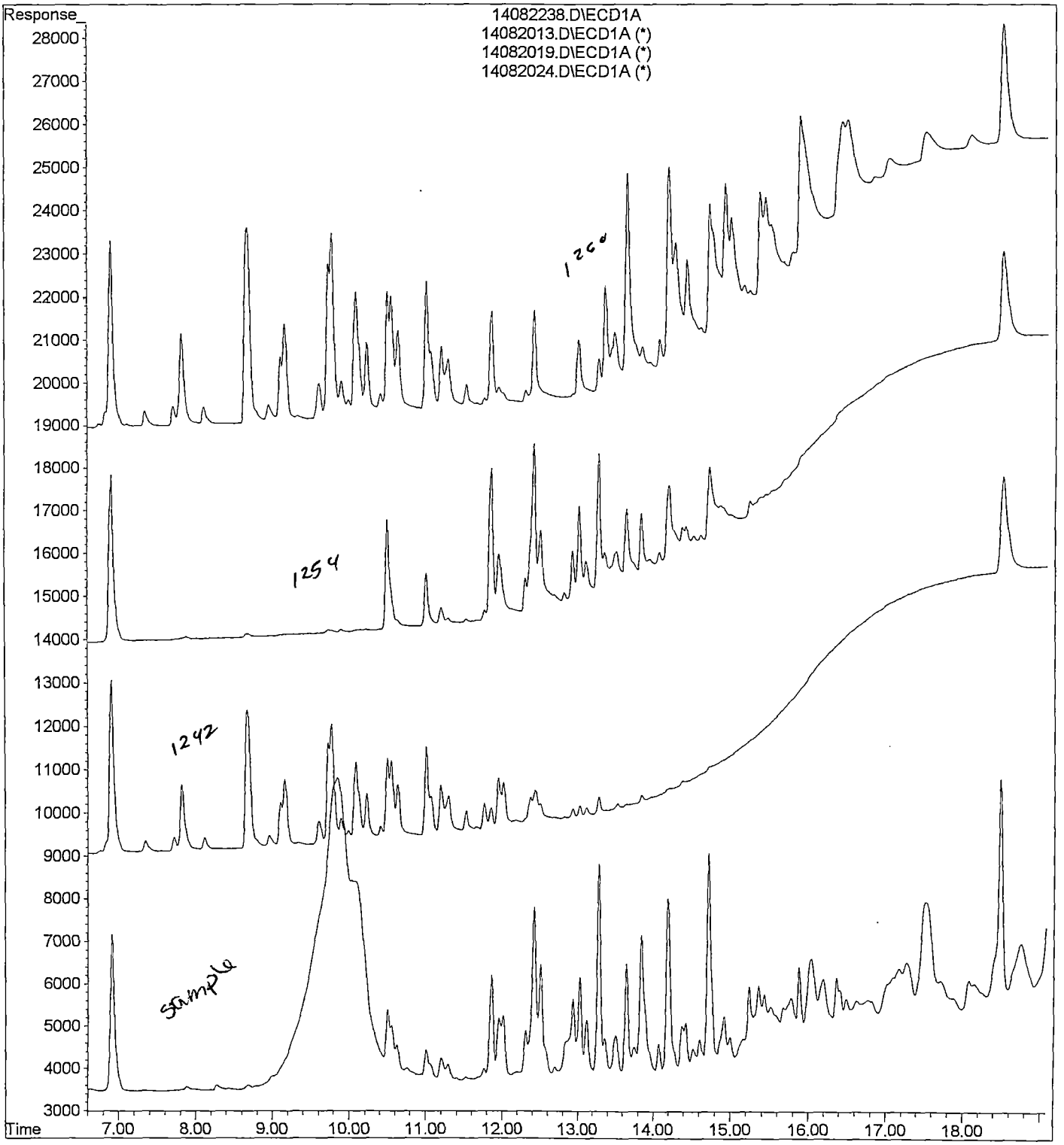
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	6.91	6.87	146130	152724	7.285	8.331m	
	Spiked Amount 10.256			Recovery	=	71.03%	81.23%	
22)	S DCB	18.48	19.27	228525	142015	11.6m	11.3m	
	Spiked Amount 10.256			Recovery	=	113.10%	110.18%	
	Target Compounds:							
7)	L4 Aroclor-1242	10.63f	10.39	17108	5475	33.8m	14.3	#
8)	L4 Aroclor-1242 {2}	0.00	10.63	0	2176	N.D.	11.1m	#
9)	L4 Aroclor-1242 {3}	10.63	10.84	38826	42176	123.7	162.6	#
10)	L4 Aroclor-1242 {4}	11.20	11.44	20629	24052	93.5	81.2	
11)	L4 Aroclor-1242 {5}	11.29	11.54	12099	14618	42.9	82.8	#
	Sum Aroclor-1242			88661	88497	294.0	351.9	
	Average Aroclor-1242					73.492	70.387	
12)	L6 Aroclor-1254	11.86	12.36	82588	104569	108.3	162.1	#
13)	L6 Aroclor-1254 {2}	12.42	12.76	170422	105711	147.5	168.9	
14)	L6 Aroclor-1254 {3}	13.02	13.48	82959	56324	145.4	133.4	
15)	L6 Aroclor-1254 {4}	13.65	14.09	82967	91165	158.3	234.1	#
16)	L6 Aroclor-1254 {5}	14.19	14.46	165026	125936	201.0	277.3	#
	Sum Aroclor-1254			583962	483705	760.5	975.7	
	Average Aroclor-1254					152.090	195.148	
17)	L7 Aroclor-1260	14.71	15.12	184051	149279	142.4	140.1	
18)	L7 Aroclor-1260 {2}	14.91	15.27	44548	63041	58.4	104.7	#
19)	L7 Aroclor-1260 {3}	14.99	15.36	14361	11140	22.8	27.1m	
20)	L7 Aroclor-1260 {4}	15.35	15.76	56344	25756	100.4m	43.2m	#
21)	L7 Aroclor-1260 {5}	15.88	16.18	44907	68154	25.8	60.5	#
	Sum Aroclor-1260			344211	317371	179.4	192.6	
	Average Aroclor-1260					69.954	75.115	

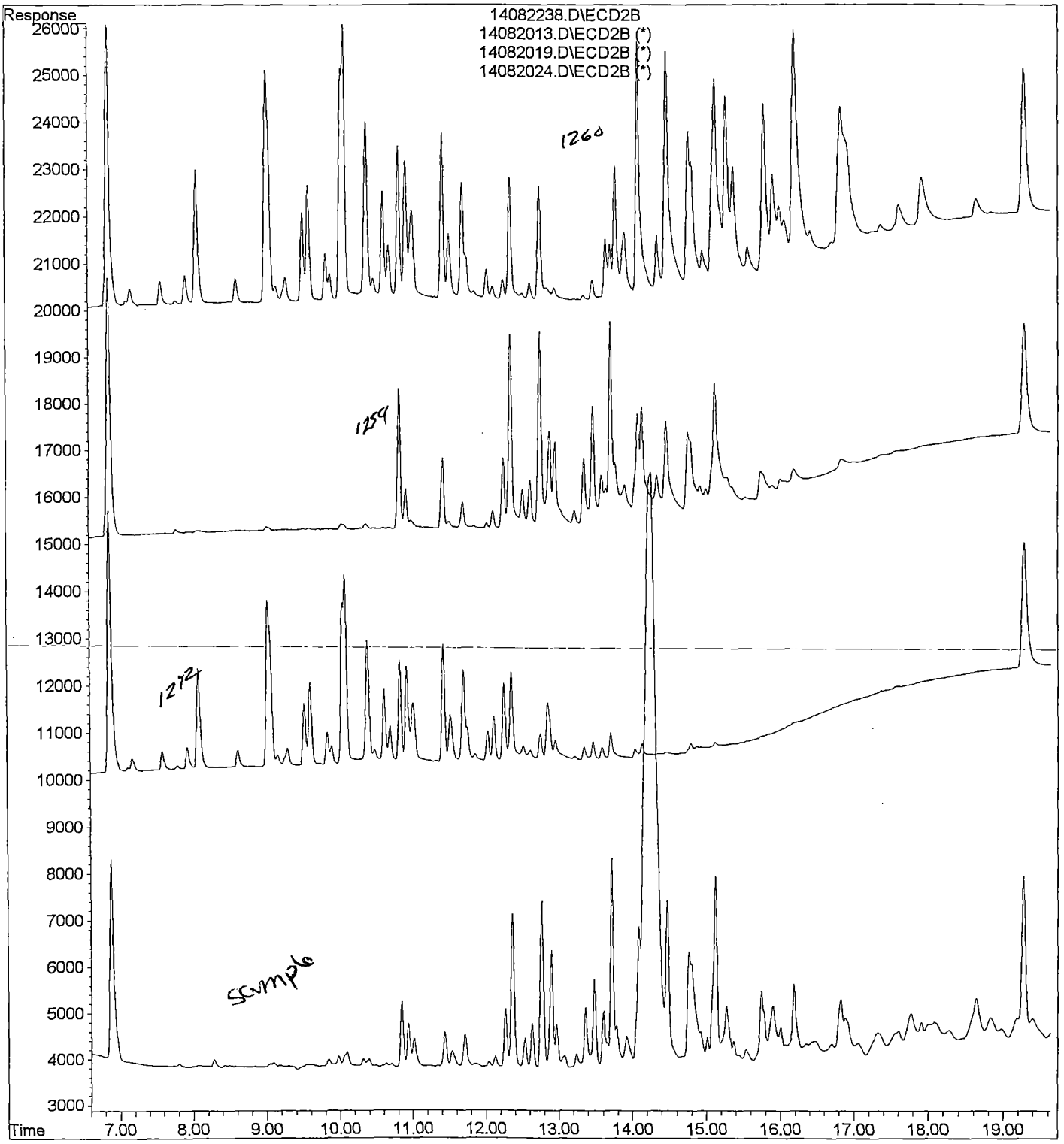
3mm
9-7-01

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

File : F:\HPCHEM\HP\14\DATA\08_22_01\14082238.D
Operator : TLM
Acquired : 23 Aug 2001 1:12 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.20 *E00Z8 *
Misc Info : *EPA*30G/5.0ML*35
Vial Number: 38

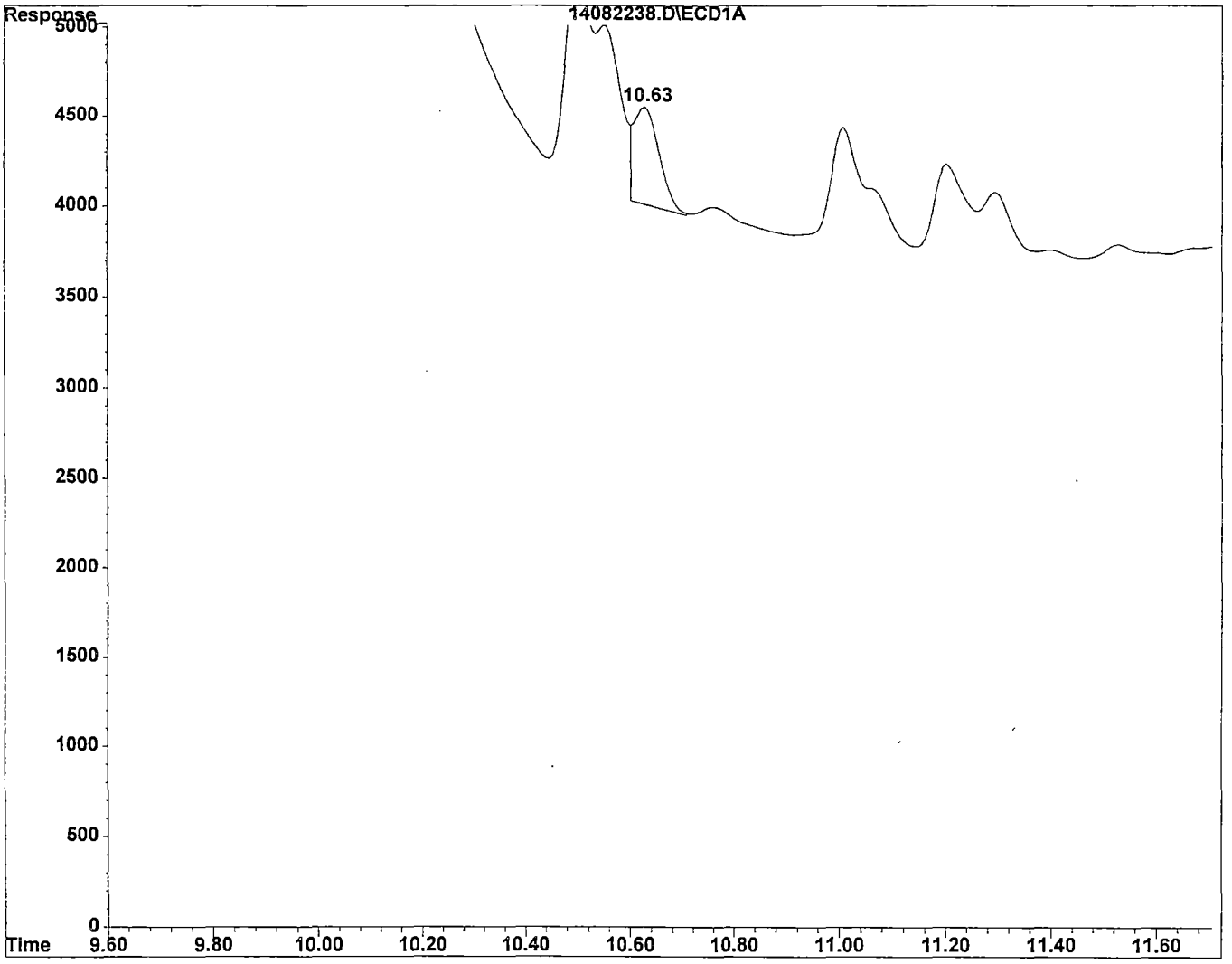


File : F:\HPCHEM\HP\14\DATA\08_22_01\14082238.D
Operator : TLM
Acquired : 23 Aug 2001 1:12 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.20 *E00Z8 *
Misc Info : *EPA*30G/5.0ML*35
Vial Number: 38



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082238.D
Date Acquired: 23 Aug 2001 1:12
Inst: HP_14 Operator ID: TLM
Name: 47166.20 *E00Z8 *
Misc: *EPA*30G/5.0ML*35
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:31 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 10.63min area: 17108 m

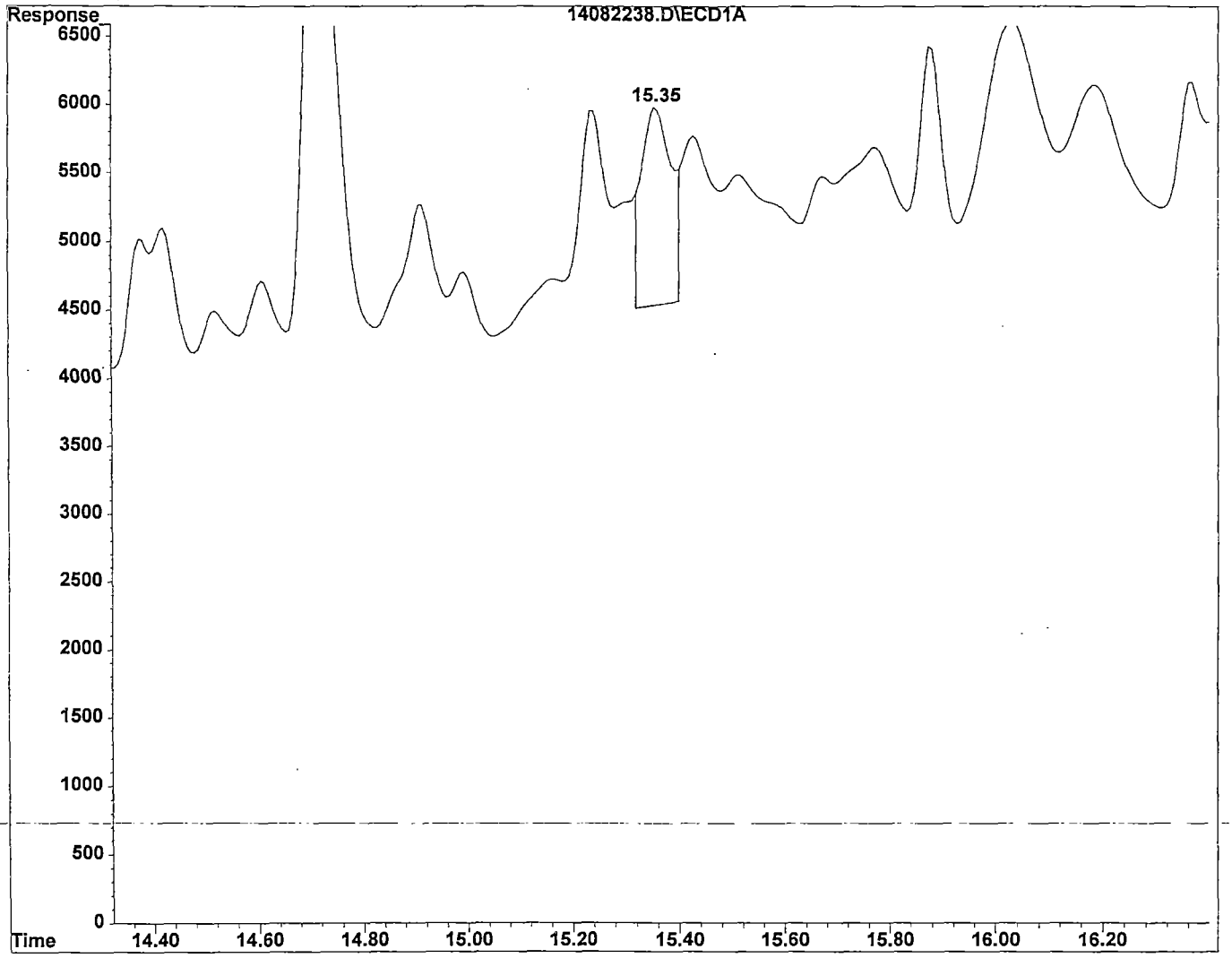
Integration Time Range: 10.60 - 10.70

JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082238.D
Report generated: Fri Sep 07 09:36:11 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082238.D
Date Acquired: 23 Aug 2001 1:12
Inst: HP_14 Operator ID: TLM
Name: 47166.20 *E00Z8 *
Misc: *EPA*30G/5.0ML*35
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:31 2001 Quant Results File: XPCBH20.RES



Aroclor-1260 {4} 15.35min area: 56344 m

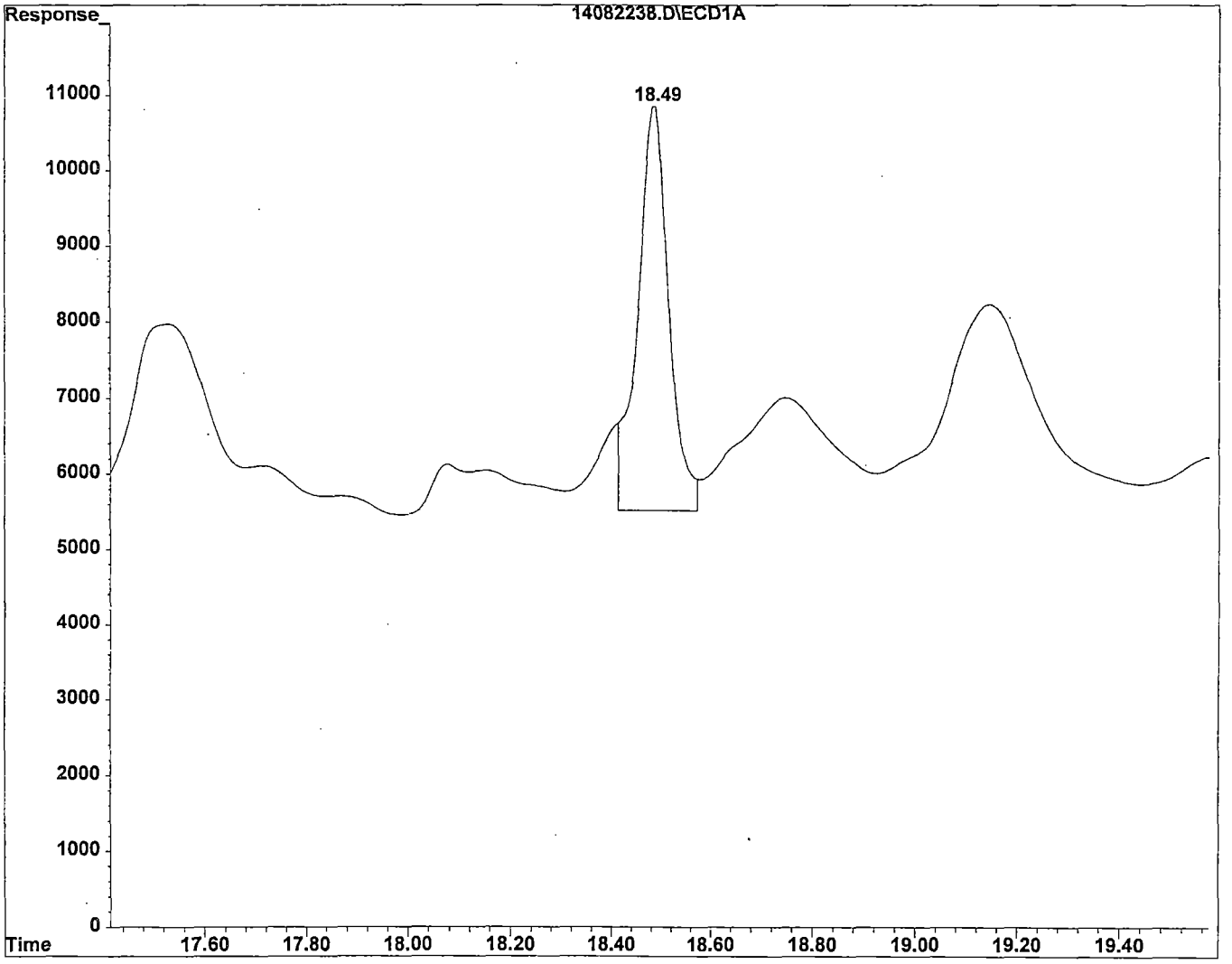
Integration Time Range: 15.32 - 15.40

TMI
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082238.D
Report generated: Fri Sep 07 09:36:11 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082238.D
Date Acquired: 23 Aug 2001 1:12
Inst: HP_14 Operator ID: TLM
Name: 47166.20 *E00Z8 *
Misc: *EPA*30G/5.0ML*35
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:31 2001 Quant Results File: XPCBH20.RES



DCB 18.48min area: 228525 m

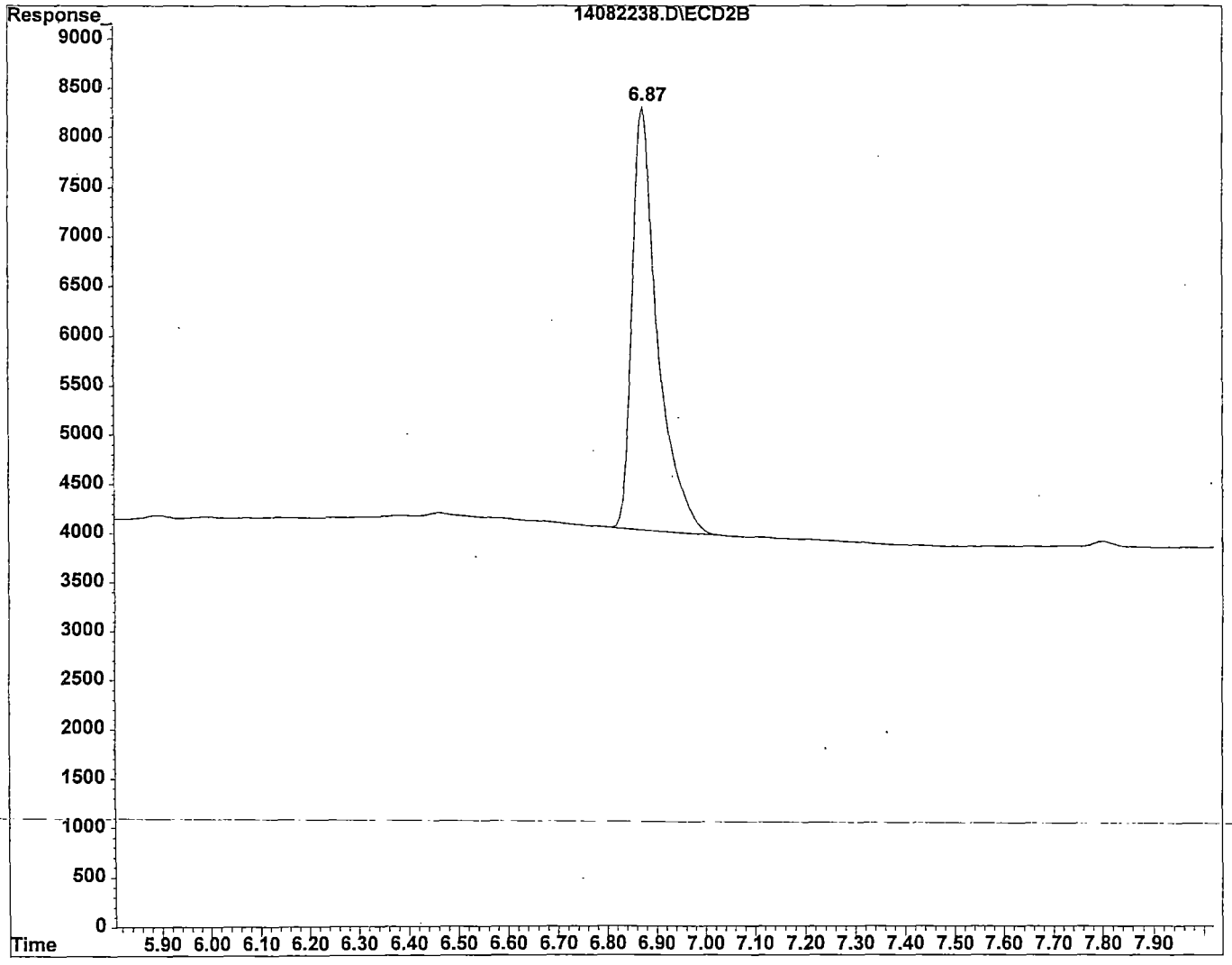
Integration Time Range: 18.42 - 18.57

TM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082238.D
Report generated: Fri Sep 07 09:36:12 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082238.D
Date Acquired: 23 Aug 2001 1:12
Inst: HP_14 Operator ID: TLM
Name: 47166.20 *E00Z8 *
Misc: *EPA*30G/5.0ML*35
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:31 2001 Quant Results File: XPCBH20.RES



TCX #2 6.87min area: 152724 m

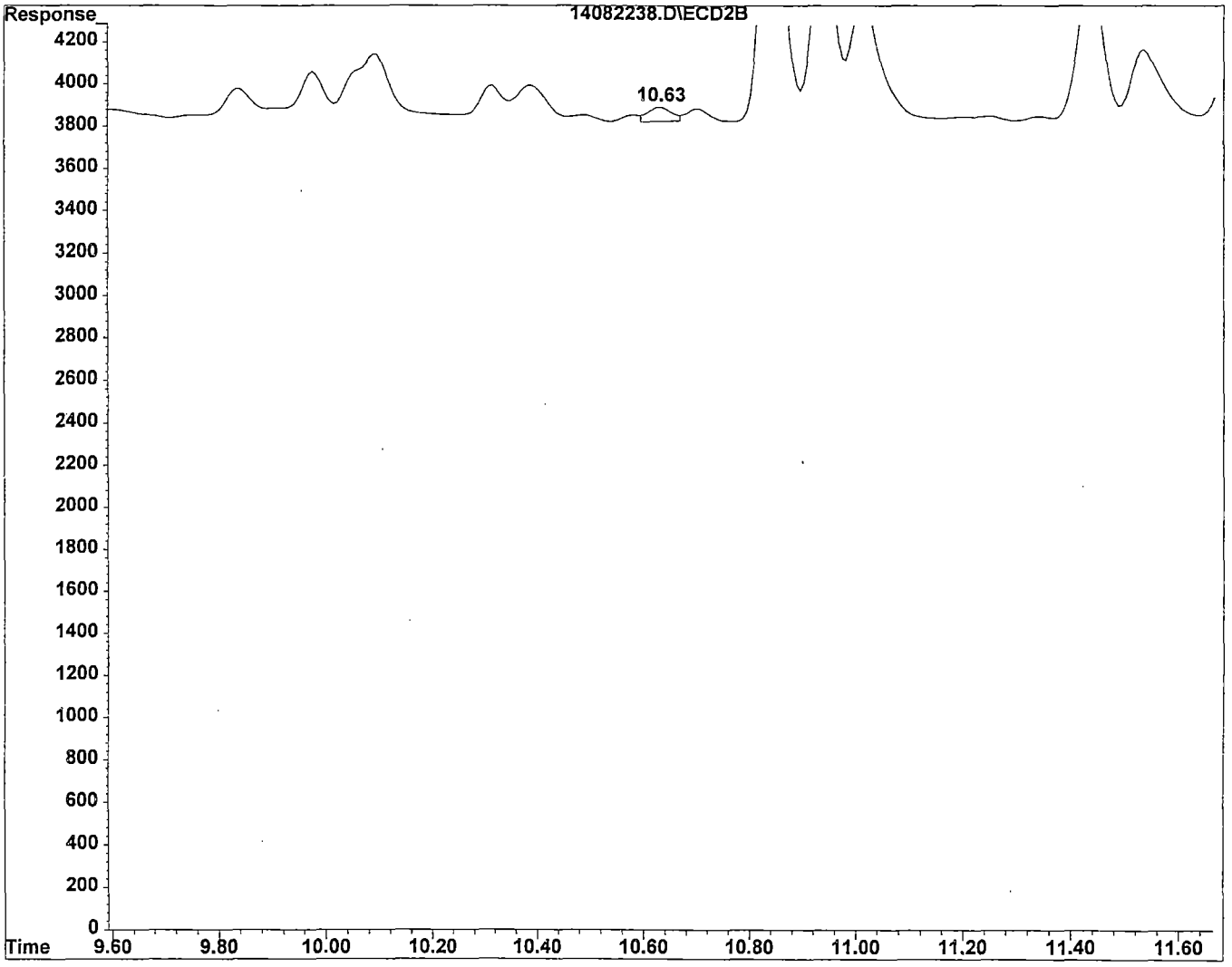
Integration Time Range: 6.81 - 7.02

JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082238.D
Report generated: Fri Sep 07 09:36:13 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082238.D
Date Acquired: 23 Aug 2001 1:12
Inst: HP_14 Operator ID: TLM
Name: 47166.20 *E00Z8 *
Misc: *EPA*30G/5.0ML*35
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:31 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {2} #2 10.63min area: 2176 m

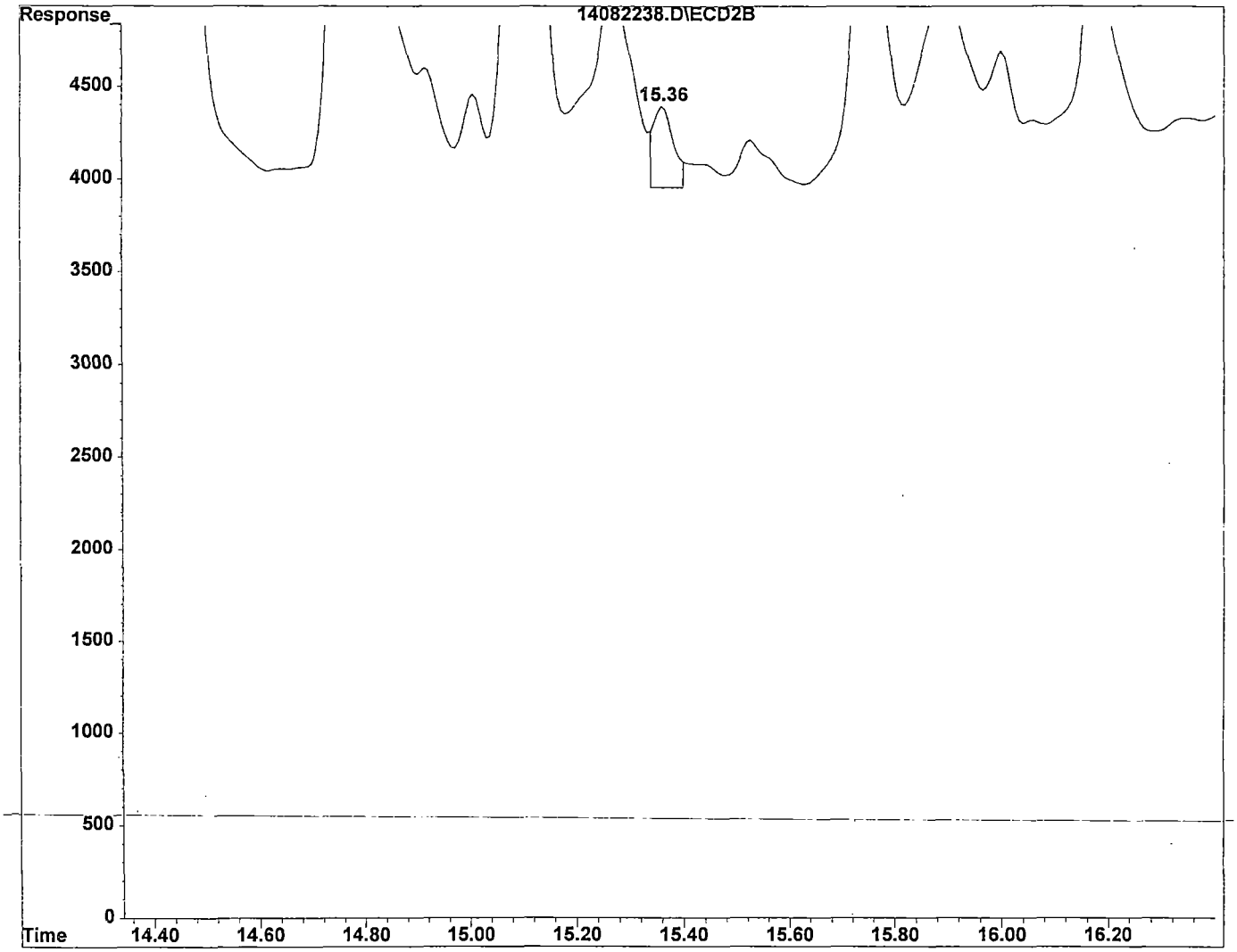
Integration Time Range: 10.59 - 10.66

JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082238.D
Report generated: Fri Sep 07 09:36:13 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082238.D
Date Acquired: 23 Aug 2001 1:12
Inst: HP_14 Operator ID: TLM
Name: 47166.20 *E00Z8 *
Misc: *EPA*30G/5.0ML*35
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:31 2001 Quant Results File: XPCBH20.RES



Aroclor-1260 {3} #2 15.36min area: 11140 m

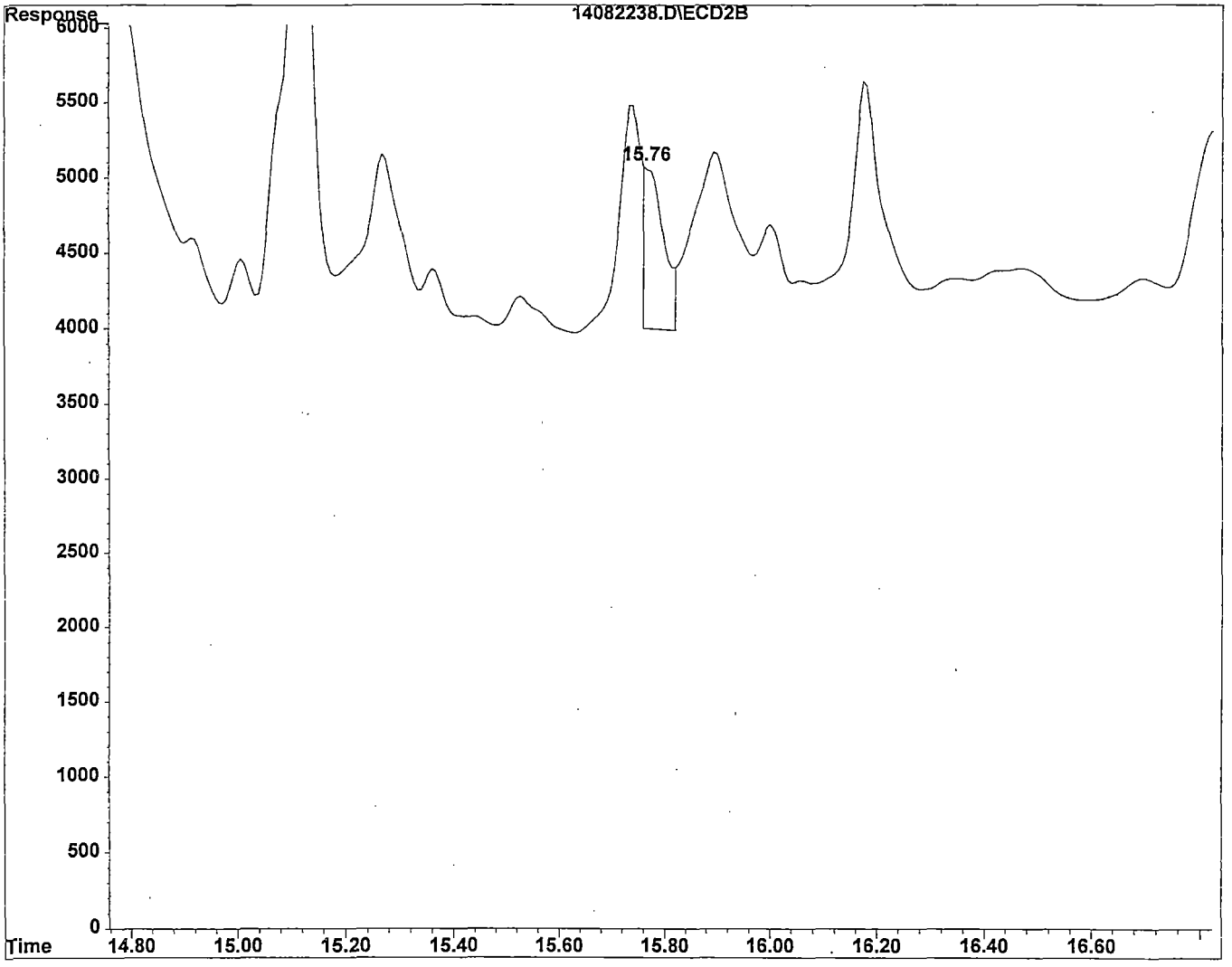
Integration Time Range: 15.34 - 15.40

JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082238.D
Report generated: Fri Sep 07 09:36:14 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082238.D
Date Acquired: 23 Aug 2001 1:12
Inst: HP_14 Operator ID: TLM
Name: 47166.20 *E00Z8 *
Misc: *EPA*30G/5.0ML*35
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:31 2001 Quant Results File: XPCBH20.RES



Aroclor-1260 {4} #2 15.76min area: 25756 m

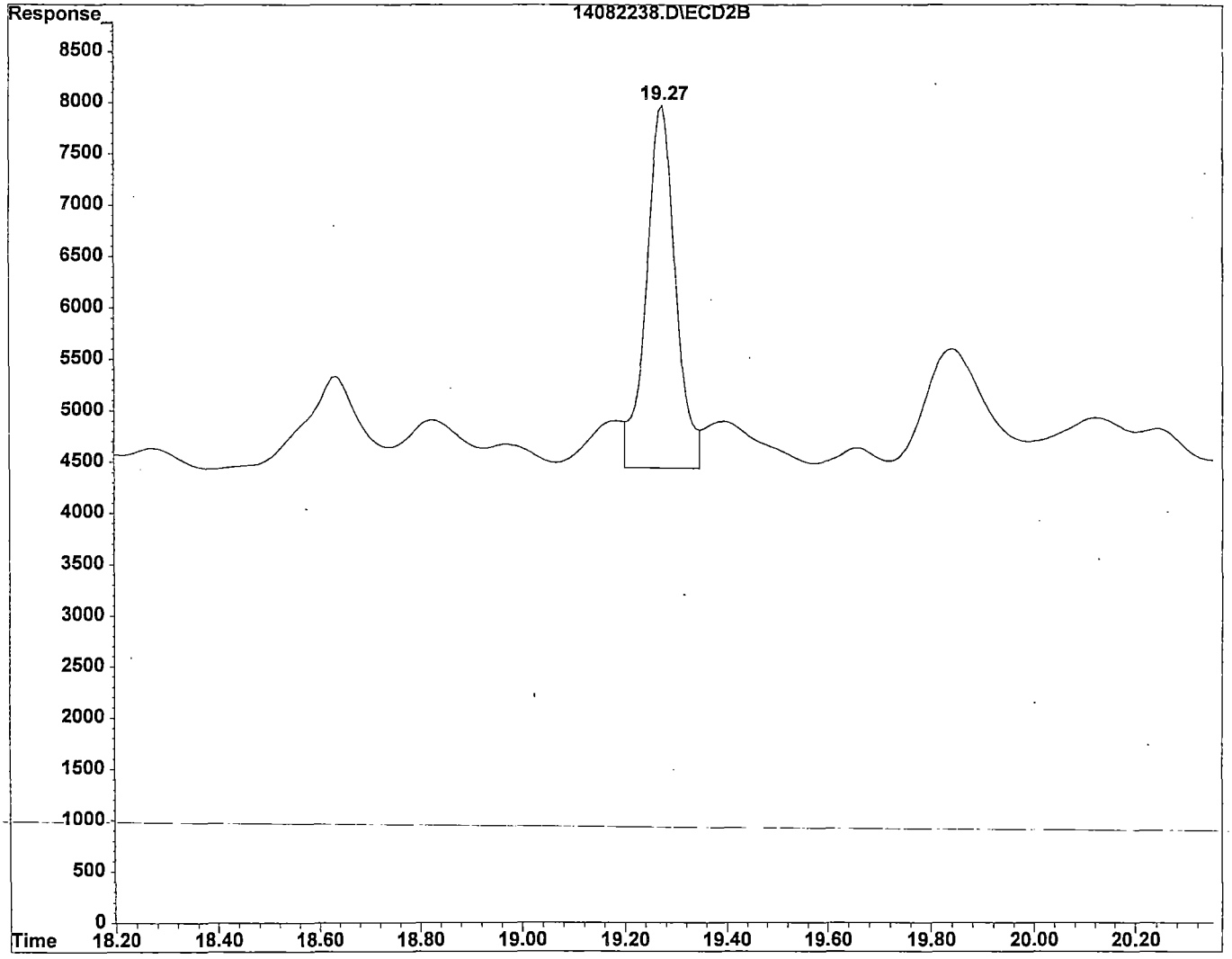
Integration Time Range: 15.76 - 15.82

JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082238.D
Report generated: Fri Sep 07 09:36:15 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082238.D
Date Acquired: 23 Aug 2001 1:12
Inst: HP_14 Operator ID: TLM
Name: 47166.20 *E00Z8 *
Misc: *EPA*30G/5.0ML*35
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:31 2001 Quant Results File: XPCBH20.RES



DCB #2 19.27min area: 142015 m

Integration Time Range: 19.20 - 19.35

TM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082238.D
Report generated: Fri Sep 07 09:36:16 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Z9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.21

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

% Moisture: 35 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/23/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	50	UJ
11104-28-2	Aroclor-1221	50	UJ
11141-16-5	Aroclor-1232	50	UJ
53469-21-9	Aroclor-1242	~~780~~ 820	DJ ~~EP~~
12672-29-6	Aroclor-1248	50	UJ
11097-69-1	Aroclor-1254	~~2100~~ 2300	DJ ~~E~~
11096-82-5	Aroclor-1260	~~840~~ 860	DJ ~~P~~
Surrogate amount spiked		10.16	

apply this results 10-4-01

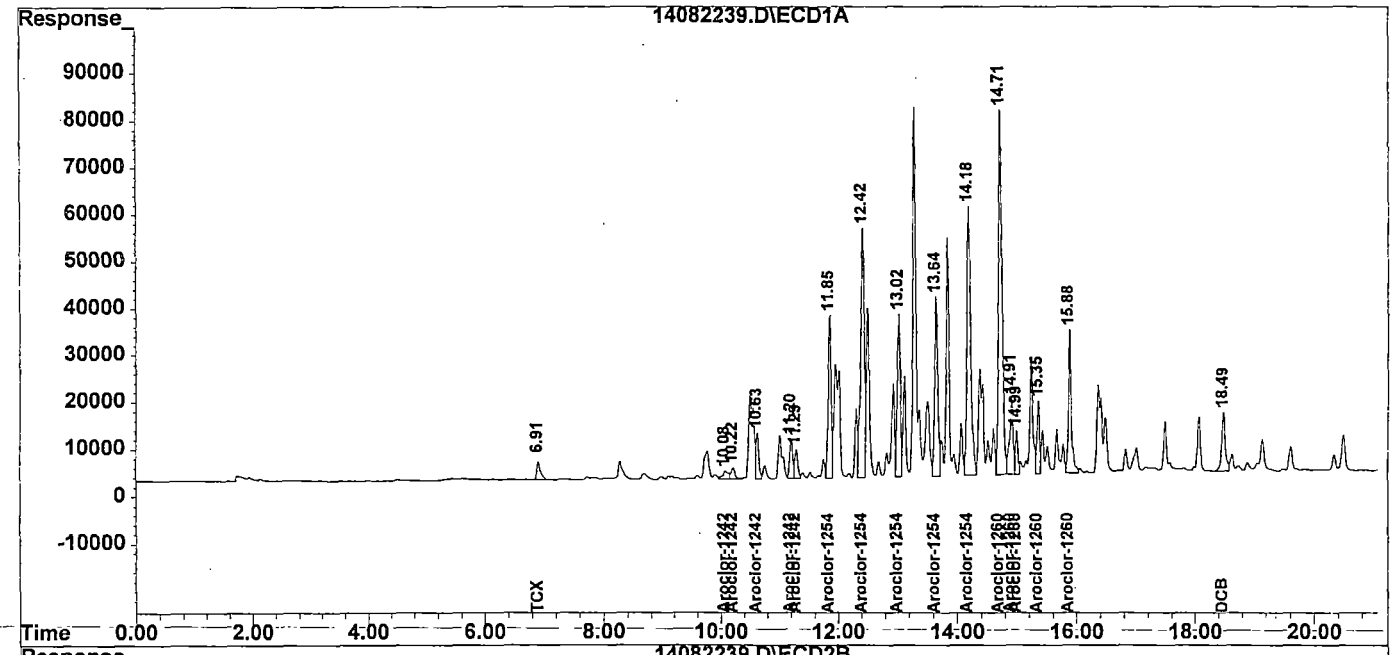
gk TB

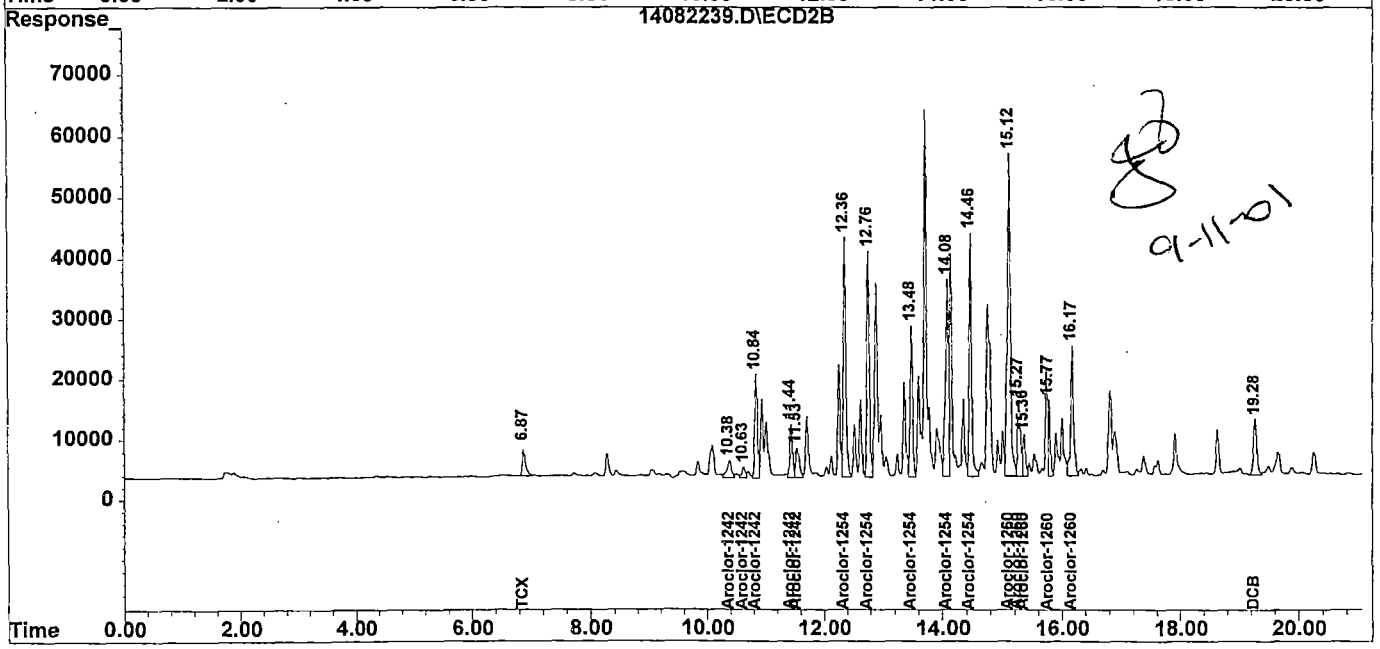
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082239.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082239.D\ECD2B.CH
Acq On : 23 Aug 2001 1:37 Operator: TLM
Sample : 47166.21 *E00Z9 * Inst : HP_14
Misc : *EPA*30.3G/5.0ML*35 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 9:32 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





9-11-01

UL 228

Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082239.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082239.D\ECD2B.CH
Acq On : 23 Aug 2001 1:37 Operator: TLM
Sample : 47166.21 *E00Z9 * Inst : HP_14
Misc : *EPA*30.3G/5.0ML*35 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 9:32 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

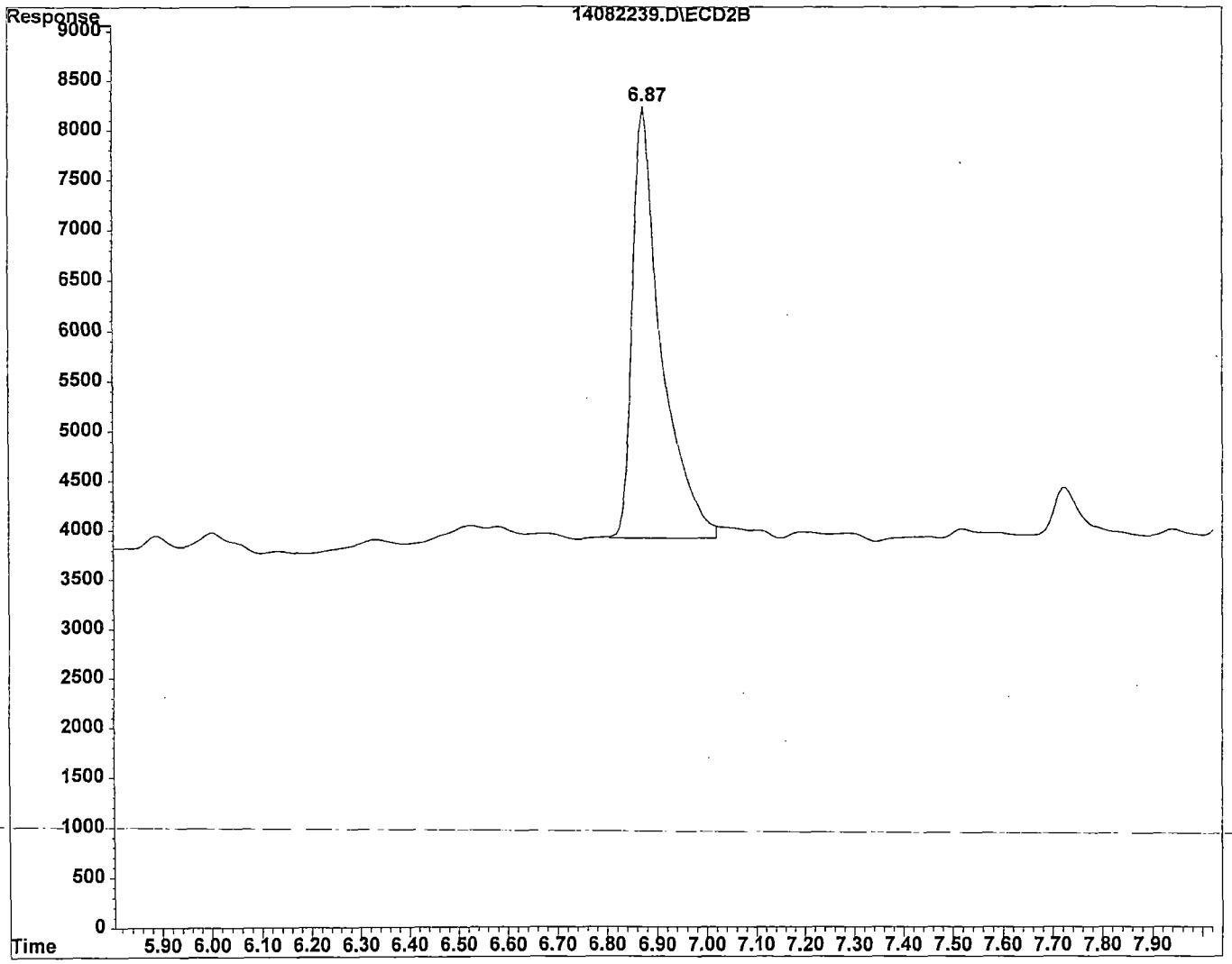
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	155654	171964	7.683	9.288m
	Spiked Amount 10.155			Recovery	=	75.66%	91.46%
22)	S DCB	18.49	19.28	546924	370459	27.6	29.1
	Spiked Amount 10.155			Recovery	=	271.79%	286.56%
	Target Compounds:						
7)	L4 Aroclor-1242	10.08	10.39	108016	158910	211.3	410.4 #
8)	L4 Aroclor-1242 {2}	10.22	10.63	113756	71944	406.1	362.4
9)	L4 Aroclor-1242 {3}	10.63	10.84	362646	533152	1144.2 E	2035.0 E#
10)	L4 Aroclor-1242 {4}	11.20	11.44	296809	287908	1331.9 E	962.1 E#
11)	L4 Aroclor-1242 {5}	11.29	11.54	228925	219240	804.5 E	1229.7 E#
	Sum Aroclor-1242			1110152	1271154	3898.1	4999.6
	Average Aroclor-1242					779.613	999.925
12)	L6 Aroclor-1254	11.85	12.36	1189811	1253165	1545.1 E	1923.3 E
13)	L6 Aroclor-1254 {2}	12.42	12.76	2226103	1124192	1907.7 E	1778.3 E
14)	L6 Aroclor-1254 {3}	13.02	13.48	1191635	726964	2067.2 E	1704.2 E
15)	L6 Aroclor-1254 {4}	13.64	14.08	1332381	1059763	2516.6 E	2694.0 E
16)	L6 Aroclor-1254 {5}	14.19	14.46	2611944	1136052	3149.7 E	2477.0 E
	Sum Aroclor-1254			8551874	5300137	11186.3	10576.8
	Average Aroclor-1254					2237.263	2115.362
17)	L7 Aroclor-1260	14.71	15.12	3147943	1948540	2411.7 E	1810.6 E
18)	L7 Aroclor-1260 {2}	14.91	15.27	657349	464776	853.5 E	764.0 E
19)	L7 Aroclor-1260 {3}	15.00	15.36	282420	198264	444.5	477.4
20)	L7 Aroclor-1260 {4}	15.36	15.78	477313	308366	841.7	512.1 #
21)	L7 Aroclor-1260 {5}	15.88	16.18	1081216	732840	613.9	644.3
	Sum Aroclor-1260			5646241	3652786	2622.7	2136.8
	Average Aroclor-1260					1033.063	841.680

TM 9-7-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082239.D
Date Acquired: 23 Aug 2001 1:37
Inst: HP_14 Operator ID: TLM
Name: 47166.21 *E00Z9 *
Misc: *EPA*30.3G/5.0ML*35
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 9:32 2001 Quant Results File: XPCBH20.RES



TCX #2 6.87min area: 171964 m

Integration Time Range: 6.80 - 7.02

JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082239.D
Report generated: Fri Sep 07 09:36:17 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Z9RE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.21RE

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

% Moisture: 35 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/27/01

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

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	51	U
11104-28-2	Aroclor-1221	51	U
11141-16-5	Aroclor-1232	51	U
53469-21-9	Aroclor-1242	820	J ~~EP~~
12672-29-6	Aroclor-1248	51	U
11097-69-1	Aroclor-1254	2100	J ~~E~~
11096-82-5	Aroclor-1260	810	J ~~E~~
Surrogate amount spiked		10.22	

TBS
10-4-01

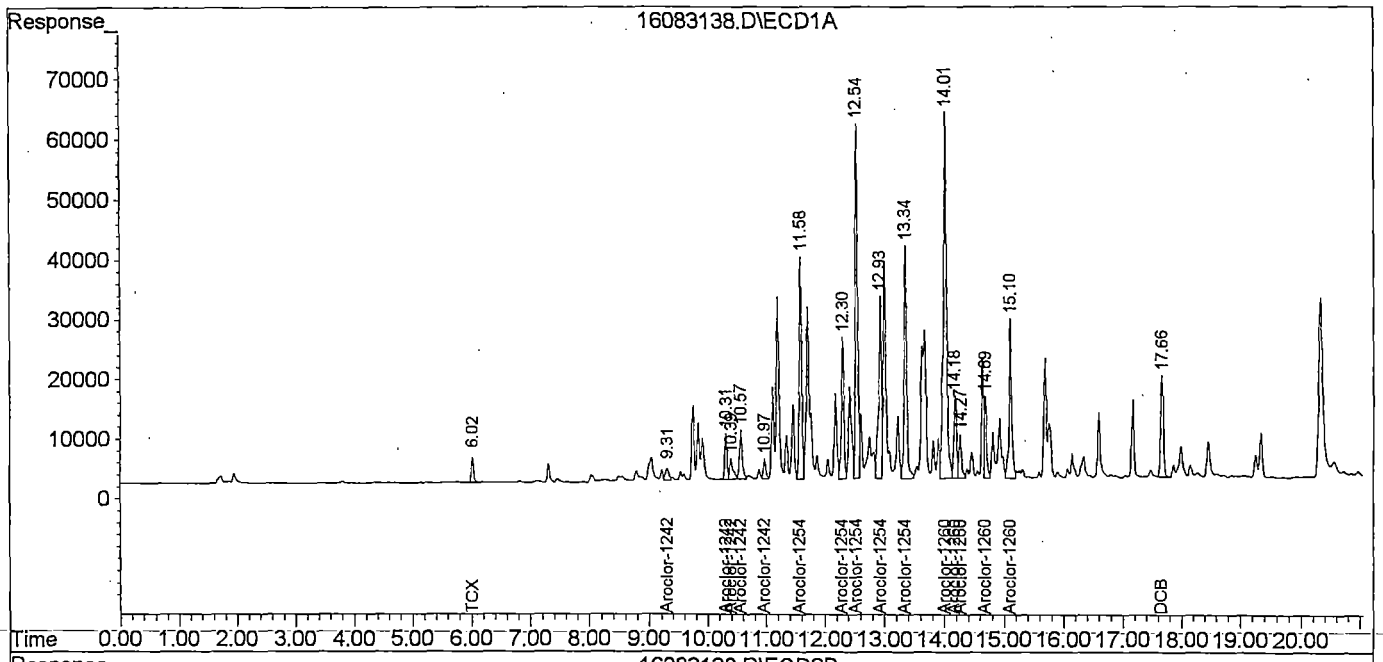
FORM I PCB

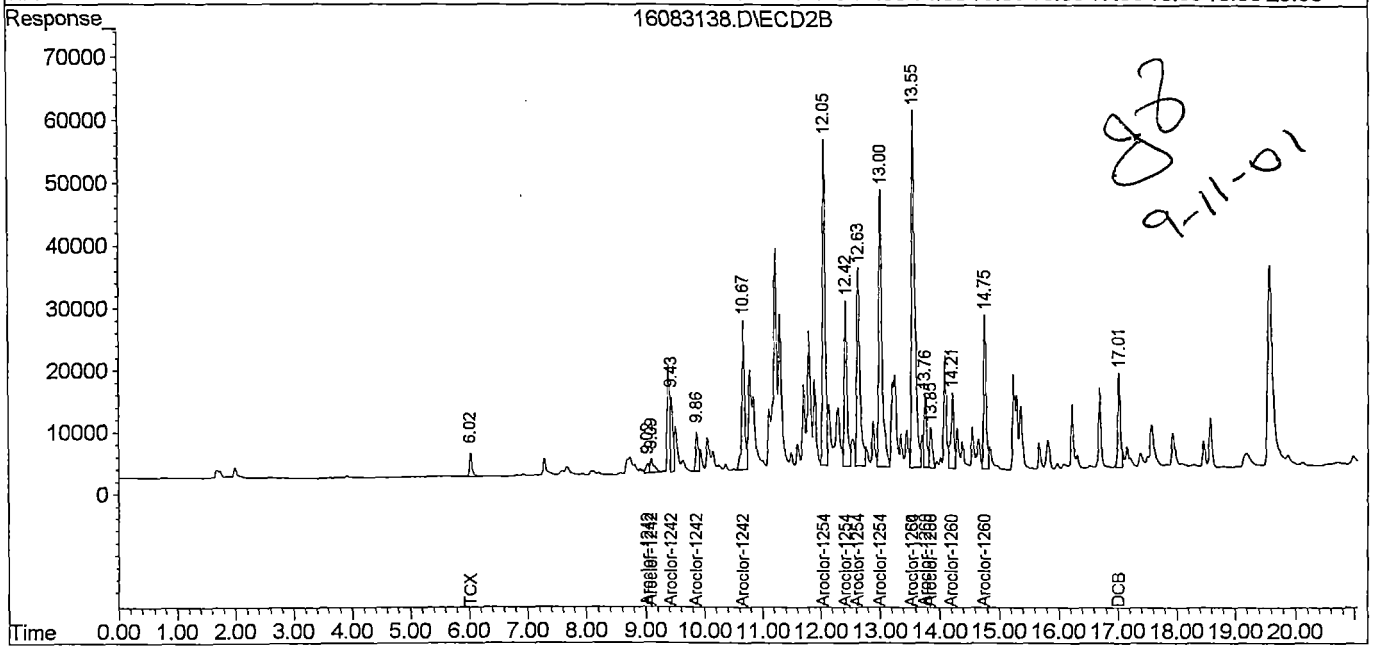
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083138.D\ECD1A.CH Vial: 38
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083138.D\ECD2B.CH
Acq On : 01 Sep 2001 5:03 Operator: TLM
Sample : 47166.21RE *E00Z9RE * Inst : HP_16
Misc : *EPA*30.1G/5.0ML*35 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 11 15:11 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





SB
9-11-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083138.D\ECD1A.CH Vial: 38
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083138.D\ECD2B.CH
Acq On : 01 Sep 2001 5:03 Operator: TLM
Sample : 47166.21RE *E00Z9RE * Inst : HP_16
Misc : *EPA*30.1G/5.0ML*35 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 11 15:11 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

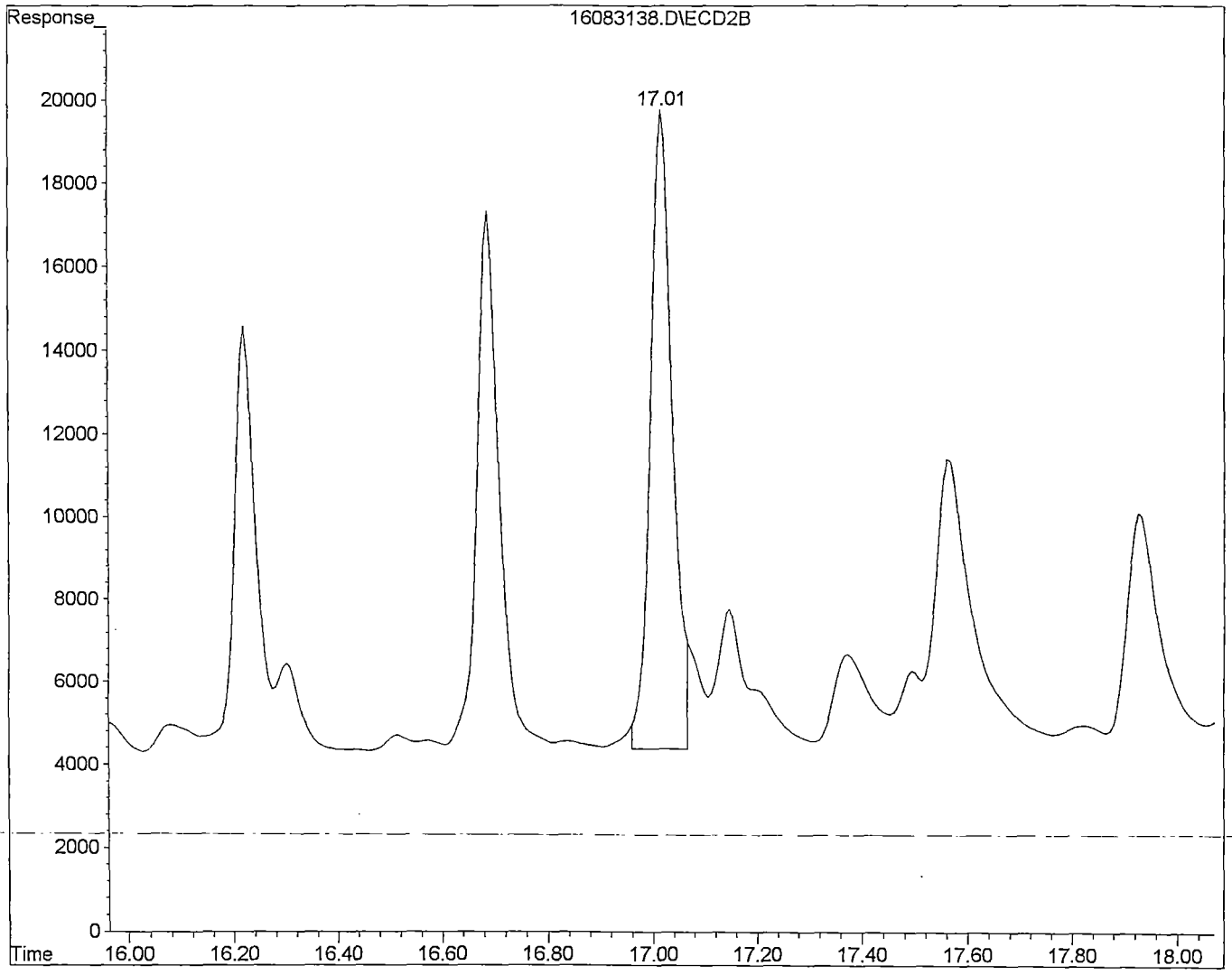
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	109264	120962	11.0	10.1
	Spiked Amount 10.222			Recovery	=	107.61%	98.80%
22)	S DCB	17.66	17.01	543631	452372	31.6	25.7m
	Spiked Amount 10.222			Recovery	=	309.13%	251.41%
	Target Compounds:						
7)	L4 Aroclor-1242	9.31	9.03	87501	55929	241.6	158.6 #
8)	L4 Aroclor-1242 {2}	10.31	9.09f	207298	112895	908.6 E	527.7 #
9)	L4 Aroclor-1242 {3}	10.40	9.43	140614	338019	1137.5 E	1438.3 E#
10)	L4 Aroclor-1242 {4}	10.57	9.86	281686	188066	850.3 E	517.6 #
11)	L4 Aroclor-1242 {5}	10.98	10.67	104207	802502	977.6 E	5859.8 E#
	Sum Aroclor-1242			821306	1497411	4115.7	8502.0
	Average Aroclor-1242					823.133	1700.400
12)	L6 Aroclor-1254	11.58	12.05	1060477	1633216	1873.6 E	1971.0 E
13)	L6 Aroclor-1254 {2}	12.30	12.42	701526	857011	1841.1 E	2365.6 E#
14)	L6 Aroclor-1254 {3}	12.54	12.64	1584033	1184779	1942.9 E	2559.7 E#
15)	L6 Aroclor-1254 {4}	12.93	13.00	1023135	1742229	2484.2 E	2667.4 E
16)	L6 Aroclor-1254 {5}	13.34	13.55	1135073	2240979	2580.8 E	2956.0 E
	Sum Aroclor-1254			5504244	7658214	10722.7	12519.7
	Average Aroclor-1254					2144.544	2503.932
17)	L7 Aroclor-1260	14.02	13.55	2187379	2240979	1864.5 E	1824.7 E
18)	L7 Aroclor-1260 {2}	14.18	13.76	450161	373508	697.6 E	562.8
19)	L7 Aroclor-1260 {3}	14.27	13.85	228574	204554	533.0	471.7
20)	L7 Aroclor-1260 {4}	14.69	14.21	357571	428602	541.7	707.0 #
21)	L7 Aroclor-1260 {5}	15.10	14.76	827033	693159	625.8	466.9 #
	Sum Aroclor-1260			4050718	3940802	2178.7	2061.4
	Average Aroclor-1260					852.520	806.612

JM 9-11-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_31_01\16083138.D
Date Acquired: 01 Sep 2001 5:03
Inst: HP_16 Operator ID: TLM
Name: 47166.21RE *E00Z9RE *
Misc: *EPA*30.1G/5.0ML*35
Method: F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title: PCB/TOXAPHENE
Quant Time: Sep 11 15:11 2001 Quant Results File: XPCBH31.RES



DCB #2 17.01min area: 452372 m

Integration Time Range: 16.96 - 17.07

JM 9-11-01

F:\HPCHEM\HP\16\DATA\08_31_01\16083138.D
Report generated: Tue Sep 11 15:33:07 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Z9REDL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.21REDL

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

% Moisture: 35 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/27/01

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

Injection Volume: 0.5(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	250	U
11104-28-2	Aroclor-1221	250	U
11141-16-5	Aroclor-1232	250	U
53469-21-9	Aroclor-1242	820	~~DJ~~
12672-29-6	Aroclor-1248	250	U
11097-69-1	Aroclor-1254	23~~00~~	DJ
11096-82-5	Aroclor-1260	860	DJ
Surrogate amount spiked		10.22	

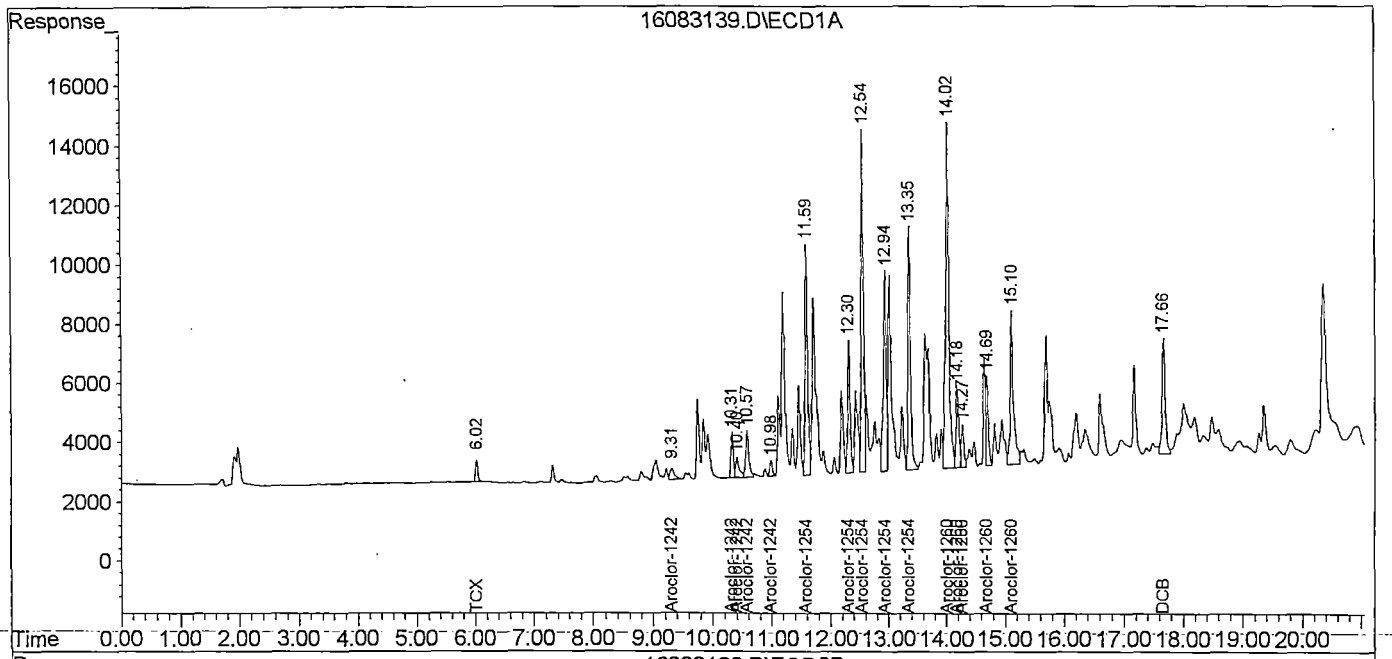
TBS
10-4-01

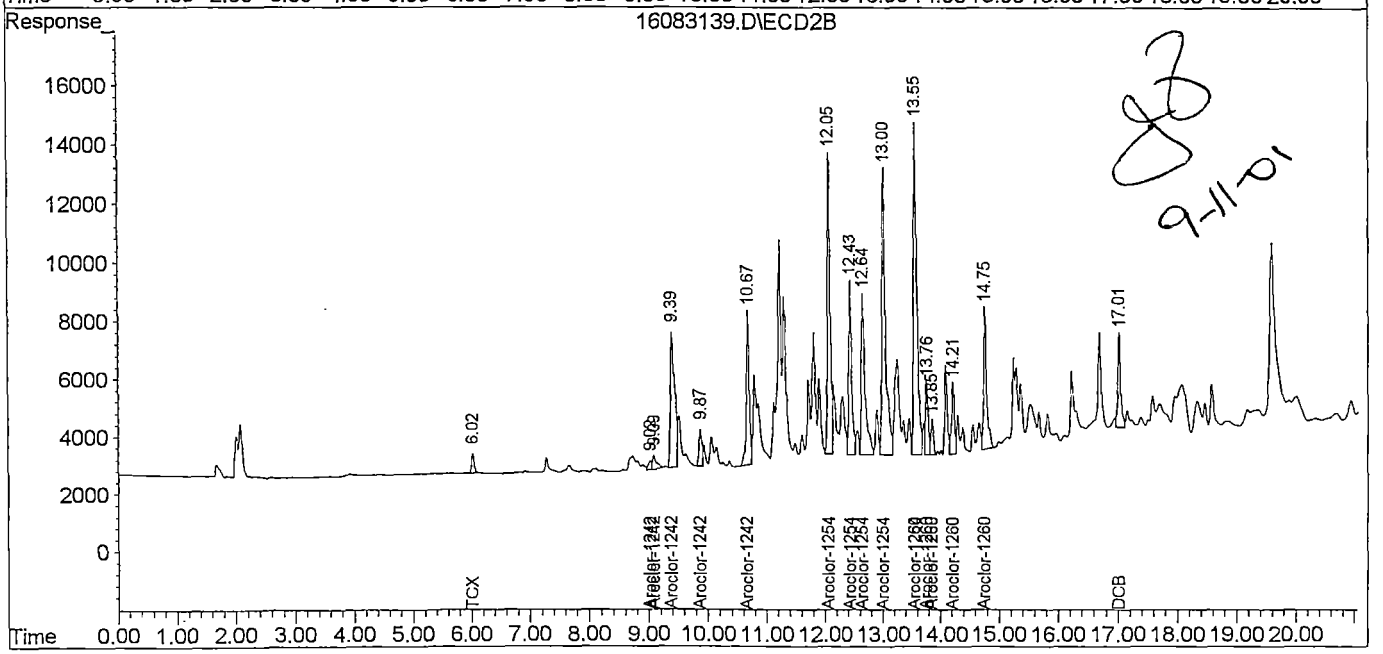
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083139.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083139.D\ECD2B.CH
Acq On : 01 Sep 2001 5:28 Operator: TLM
Sample : 47166.21REDL *E00Z9REDL * Inst : HP_16
Misc : *EPA*30.1G/5.0ML*35 Dilution: 5.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 12:30 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-11-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083139.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083139.D\ECD2B.CH
Acq On : 01 Sep 2001 5:28 Operator: TLM
Sample : 47166.21REDL *E00Z9REDL * Inst : HP_16
Misc : *EPA*30.1G/5.0ML*35 Dilution: 5.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 12:30 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

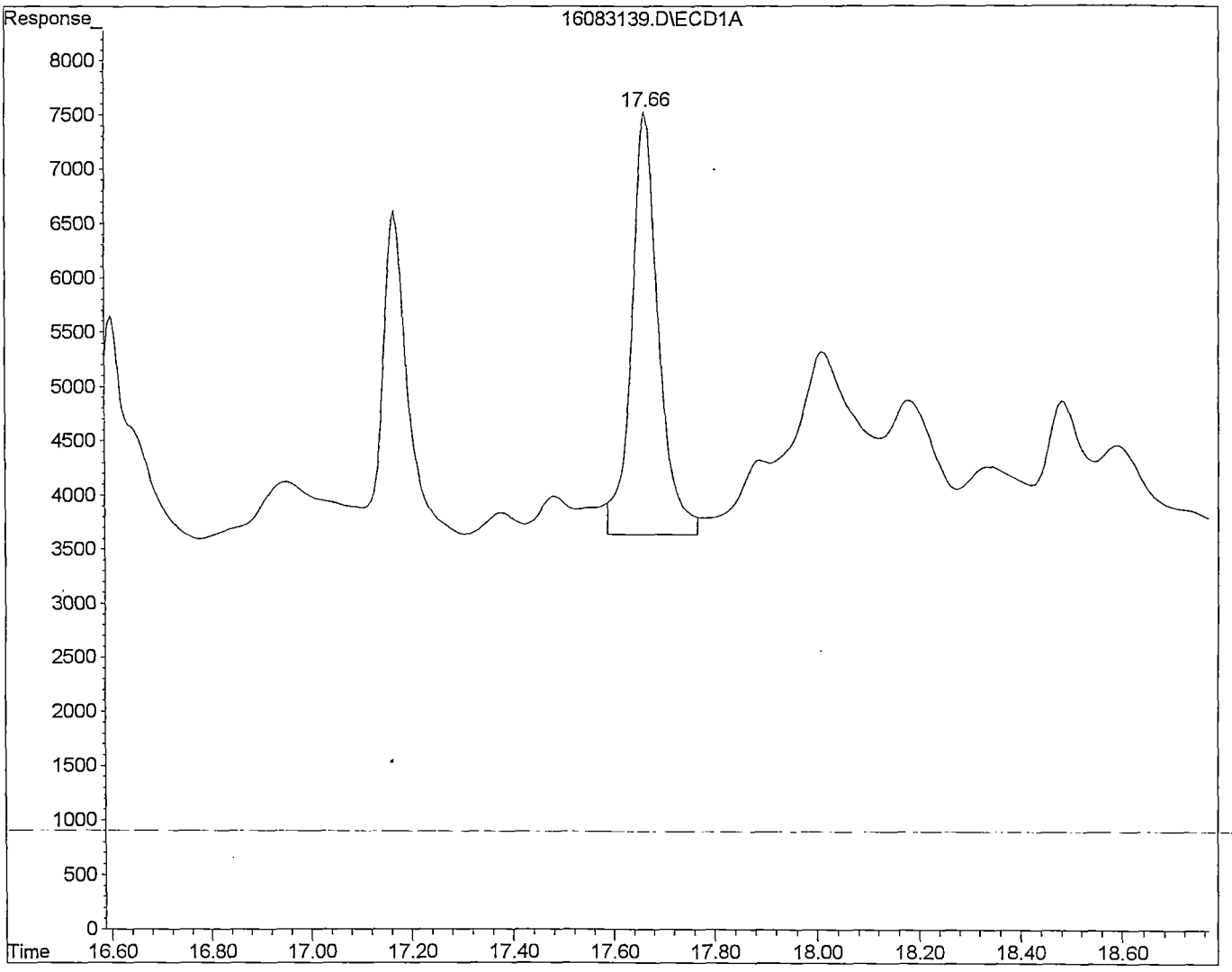
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	6.02	6.02	21163	22046	10.6	9.217	
	Spiked Amount 10.222			Recovery	=	103.69%	90.17%	
22)	S DCB	17.66	17.01	146185	106374	42.5m	30.3m	#
	Spiked Amount 10.222			Recovery	=	415.76%	296.41%	
	Target Compounds:							
7)	L4 Aroclor-1242	9.32	9.03	20843	11591	287.8	164.3	#
8)	L4 Aroclor-1242 {2}	10.31	9.09f	44246	24712	969.6	577.6	#
9)	L4 Aroclor-1242 {3}	10.40	9.39f	28318	237543	1145.4	5053.9	E#
10)	L4 Aroclor-1242 {4}	10.57	9.87	59153	40160	892.8	552.6	#
11)	L4 Aroclor-1242 {5}	10.98	10.67	16560	184905	776.8	6750.8	E#
	Sum Aroclor-1242			169120	498911	4072.4	13099.3	
	Average Aroclor-1242					814.489	2619.851	
12)	L6 Aroclor-1254	11.59	12.06	243328	342146	2149.5	2064.6	
13)	L6 Aroclor-1254 {2}	12.30	12.43	135700	203723	1780.7	2811.6	#
14)	L6 Aroclor-1254 {3}	12.54	12.64	334957	256057	2054.3	2766.0	#
15)	L6 Aroclor-1254 {4}	12.94	13.01	237589	441315	2884.4	3378.3	
16)	L6 Aroclor-1254 {5}	13.35	13.55	250788	478177	2851.1	3153.7	
	Sum Aroclor-1254			1202361	1721418	11719.9	14174.3	
	Average Aroclor-1254					2343.987	2834.853	
17)	L7 Aroclor-1260	14.02	13.55	453848	478177	1934.3	1946.7	
18)	L7 Aroclor-1260 {2}	14.18	13.76	92944	83256	720.2	627.3	
19)	L7 Aroclor-1260 {3}	14.27	13.85	44638	39313	520.5	453.3	
20)	L7 Aroclor-1260 {4}	14.69	14.21	82292	84369	623.3	695.8	
21)	L7 Aroclor-1260 {5}	15.11	14.76	202800	167562	767.3	564.3	#
	Sum Aroclor-1260			876522	852676	11667.5	10956.9	
	Average Aroclor-1260					913.097	857.484	

JM 9-11-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_31_01\16083139.D
Date Acquired: 01 Sep 2001 5:28
Inst: HP_16 Operator ID: TLM
Name: 47166.21REDL *E00Z9REDL *
Misc: *EPA*30.1G/5.0ML*35
Method: F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 12:30 2001 Quant Results File: XPCBH31.RES



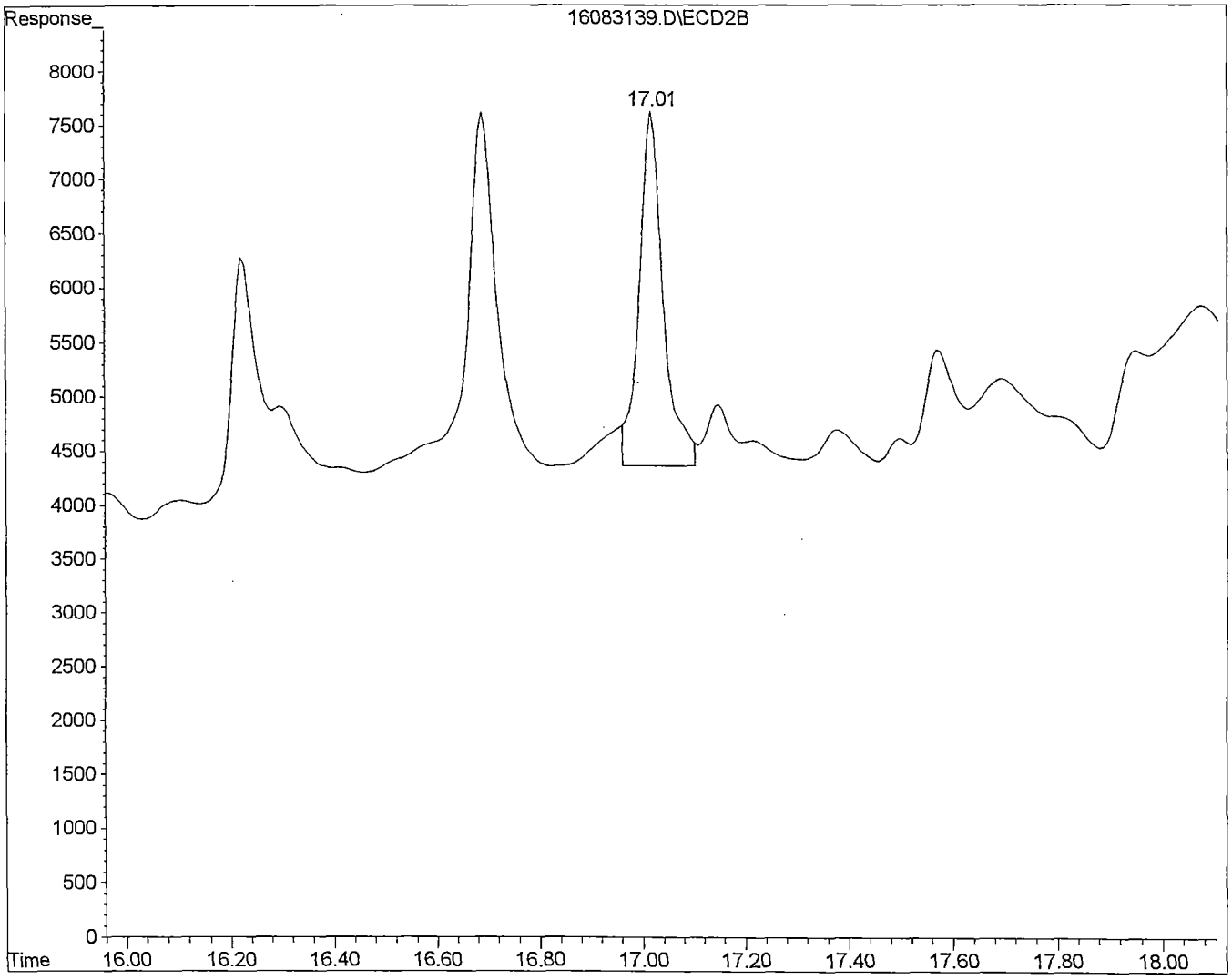
DCB 17.66min area: 146185 m

Integration Time Range: 17.59 - 17.77 9-11-01

F:\HPCHEM\HP\16\DATA\08_31_01\16083139.D
Report generated: Tue Sep 11 15:33:09 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_31_01\16083139.D
Date Acquired: 01 Sep 2001 5:28
Inst: HP_16 Operator ID: TLM
Name: 47166.21REDL *E00Z9REDL *
Misc: *EPA*30.1G/5.0ML*35
Method: F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 12:30 2001 Quant Results File: XPCBH31.RES



DCB #2 17.01min area: 106374 m

Integration Time Range: 16.96 - 17.10 JM 9-11-01

F:\HPCHEM\HP\16\DATA\08_31_01\16083139.D
Report generated: Tue Sep 11 15:33:10 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E0100

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.22

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

% Moisture: 39 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/23/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	54	UJ
11104-28-2	Aroclor-1221	54	UJ
11141-16-5	Aroclor-1232	54	UJ
53469-21-9	Aroclor-1242	350	J
12672-29-6	Aroclor-1248	54	UJ
11097-69-1	Aroclor-1254	~~940~~ 970	D~~J~~E
11096-82-5	Aroclor-1260	~~410~~ 460	D~~J~~E
Surrogate amount spiked		10.82	

apply this results

TB

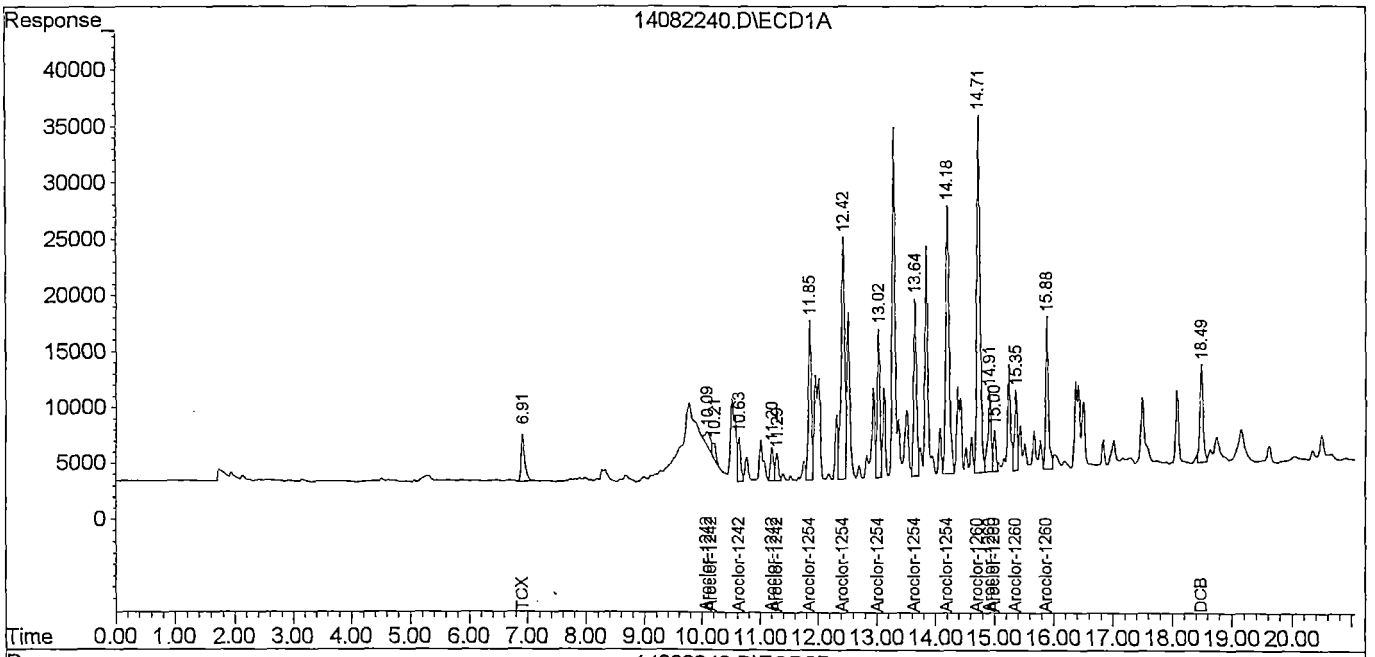
FORM I PCB

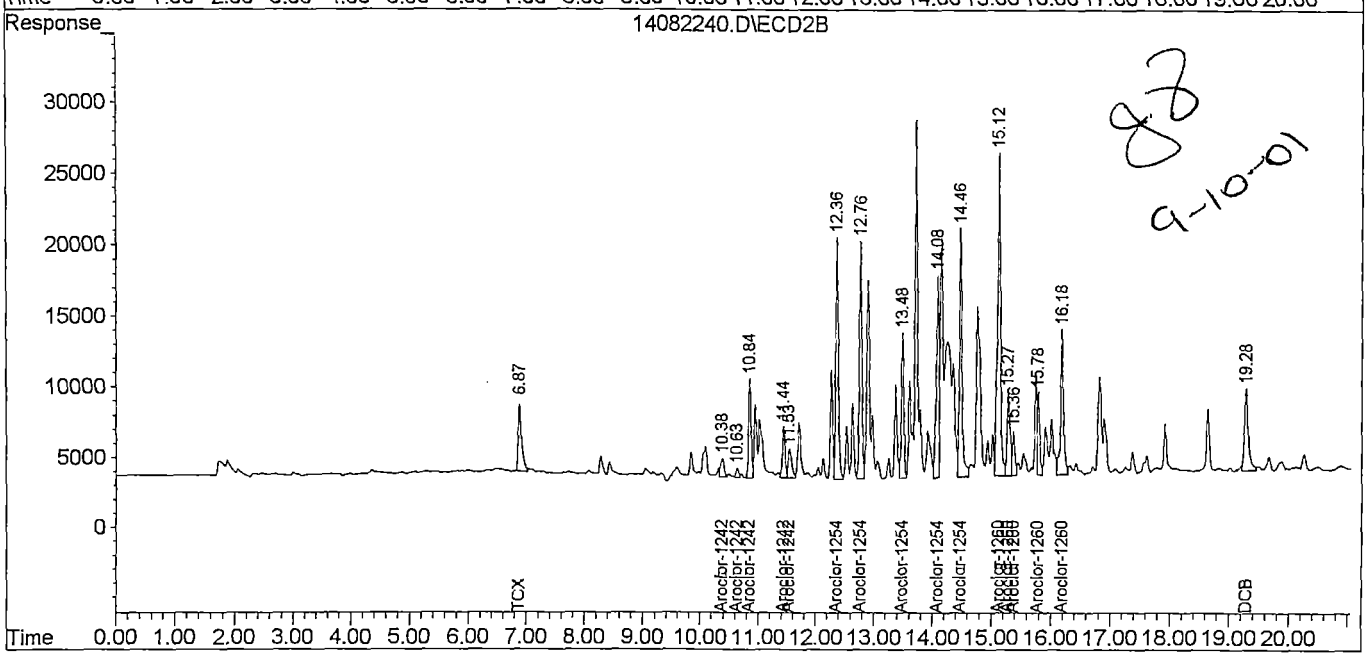
Chromatographic Report

```
Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D\ECD1A.CH Vial: 40
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D\ECD2B.CH
Acq On    : 23 Aug 2001   2:01                        Operator: TLM
Sample    : 47166.22  *E0100  *                       Inst    : HP_14
Misc      : *EPA*30.3G/5.0ML*39                       Dilution: 1.00
IntFile Signal #1: events1.e     IntFile Signal #2: events2.e
Quant Time: Sep  7 11:51 2001  Quant Results File: XPCBH20.RES

Method        : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path    : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update   : Tue Aug 07 10:50:44 2001
Response via  : Multiple Level Calibration

Volume Inj.      : 0.5uL
Signal #1 Phase  : RTX-PEST 2          Signal #2 Phase: RTX-PEST
Signal #1 Info   : .32 mm              Signal #2 Info : .32 mm
Signal #1 Inst   : HP_14A              Signal #2 Inst : HP_14B
```





8
9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D\ECD1A.CH Vial: 40
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D\ECD2B.CH
Acq On : 23 Aug 2001 2:01 Operator: TLM
Sample : 47166.22 *E0100 * Inst : HP_14
Misc : *EPA*30.3G/5.0ML*39 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 11:51 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

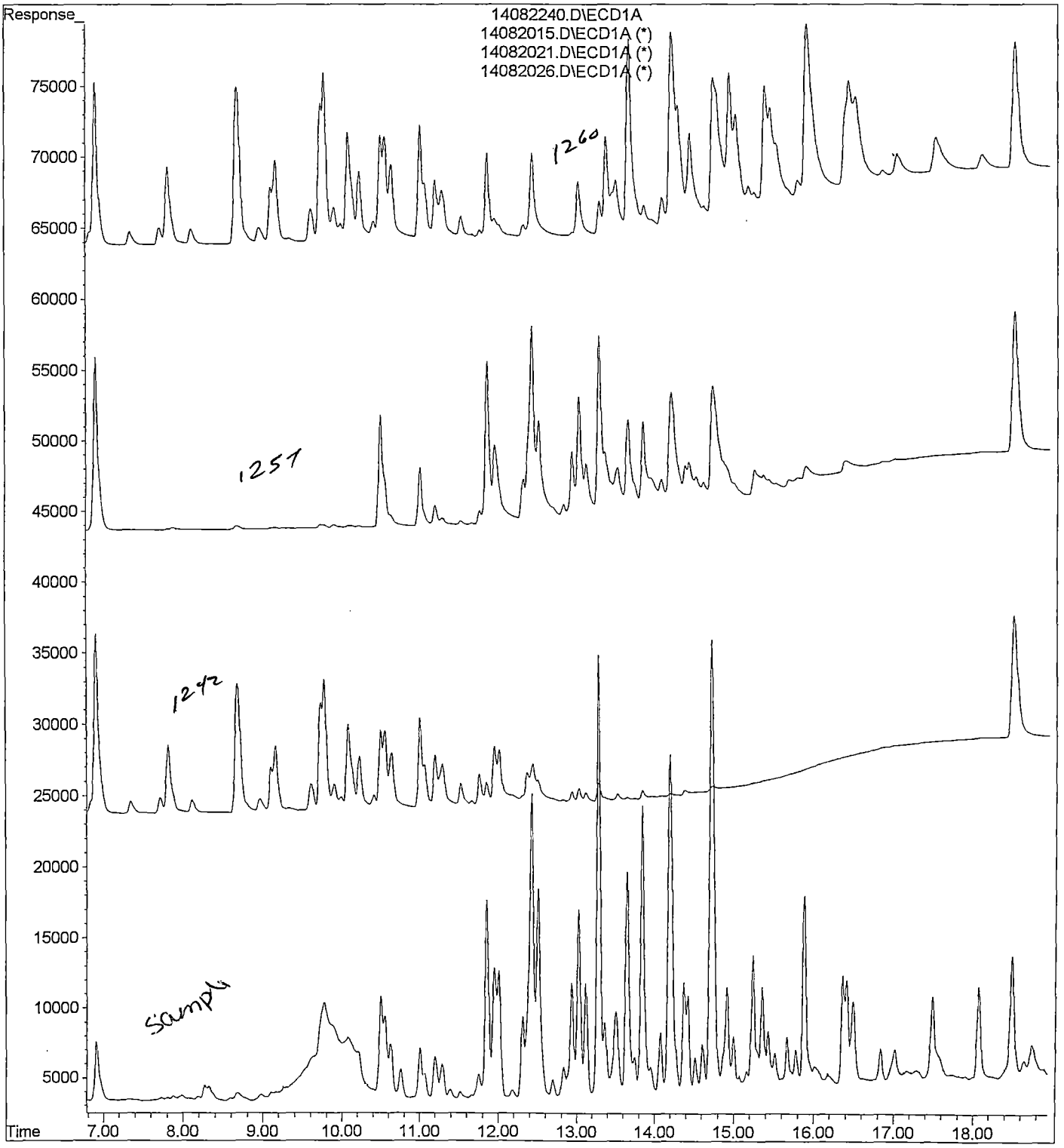
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
System Monitoring Compounds:						
1) S TCX	6.91	6.87	174012	190884	9.152	11.0m
Spiked Amount 10.821			Recovery	=	84.58%	101.66%
22) S DCB	18.49	19.28	338733	266953	18.2m	22.4m
Spiked Amount 10.821			Recovery	=	168.20%	207.01%
Target Compounds:						
7) L4 Aroclor-1242	10.08	10.38	86564	53928	180.4m	148.4m
8) L4 Aroclor-1242 {2}	10.17f	10.63	57056	19808	217.1m	106.3m #
9) L4 Aroclor-1242 {3}	10.63	10.84	146805	212948	493.6	866.1mE#
10) L4 Aroclor-1242 {4}	11.20	11.43	108958	122316	521.0	435.5m
11) L4 Aroclor-1242 {5}	11.29	11.53	91708	90160	343.4	538.9m #
Sum Aroclor-1242			491090	499160	1755.5	2095.2
Average Aroclor-1242					351.100	419.049
12) L6 Aroclor-1254	11.85	12.36	480313	542378	664.6	887.0 E#
13) L6 Aroclor-1254 {2}	12.42	12.76	888269	498879	811.1	840.9 E
14) L6 Aroclor-1254 {3}	13.02	13.48	442808	294016	818.5	734.5
15) L6 Aroclor-1254 {4}	13.64	14.09	523022	454752	1052.7 E	1231.8 E
16) L6 Aroclor-1254 {5}	14.19	14.47	1031706	538260	1325.7 E	1250.6 E
Sum Aroclor-1254			3366118	2328284	4672.7	4944.7
Average Aroclor-1254					934.536	988.945
17) L7 Aroclor-1260	14.71	15.12	1226139	827354	1001.0 E	819.2 E
18) L7 Aroclor-1260 {2}	14.91	15.27	280136	217754	387.6	381.4
19) L7 Aroclor-1260 {3}	15.00	15.37	114343	92351	191.8	237.0
20) L7 Aroclor-1260 {4}	15.36	15.78	229802	151631	431.8	268.3 #
21) L7 Aroclor-1260 {5}	15.88	16.18	437704	358505	264.8	335.9 #
Sum Aroclor-1260			2288123	1647596	1231.9	1104.7
Average Aroclor-1260					455.389	408.351

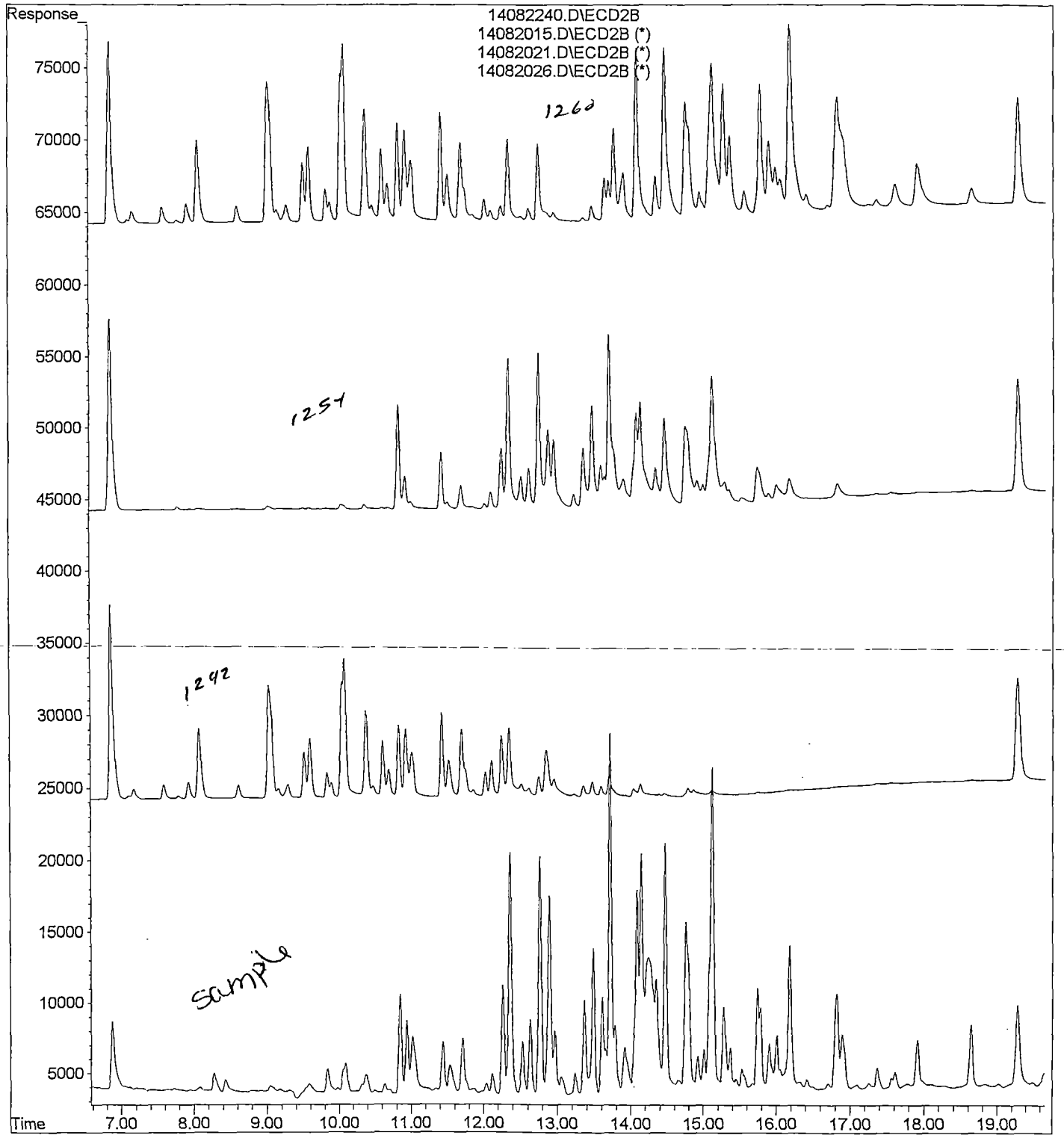
7m 9-7d

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

File : F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D
Operator : TLM
Acquired : 23 Aug 2001 2:01 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.22 *E0100 *
Misc Info : *EPA*30.3G/5.0ML*39
Vial Number: 40

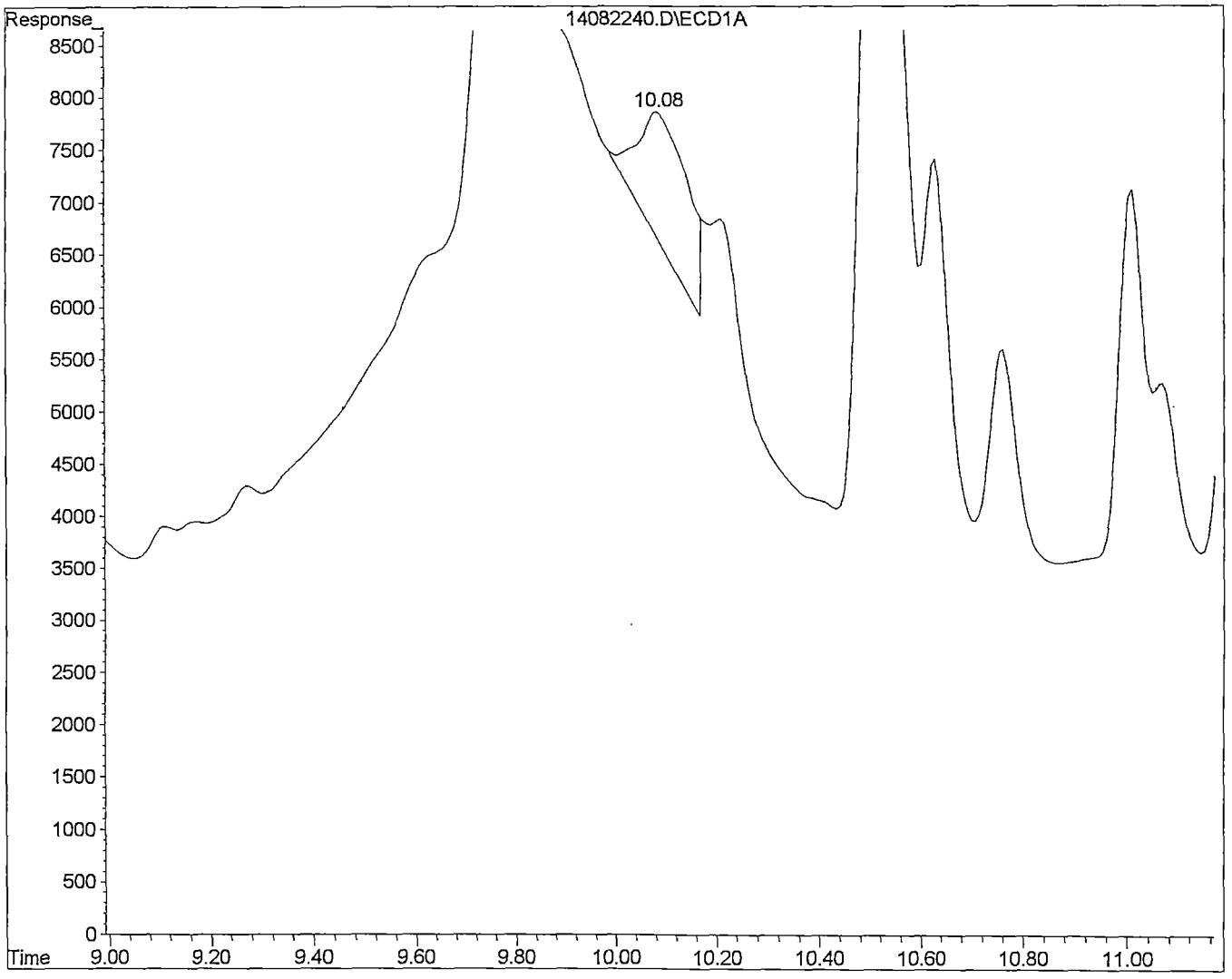


File : F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D
Operator : TLM
Acquired : 23 Aug 2001 2:01 using AcqMethod OLM03.M
Instrument : HP_14
Sample Name: 47166.22 *E0100 *
Misc Info : *EPA*30.3G/5.0ML*39
Vial Number: 40



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D
Date Acquired: 23 Aug 2001 2:01
Inst: HP_14 Operator ID: TLM
Name: 47166.22 *E0100 *
Misc: *EPA*30.3G/5.0ML*39
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 11:51 2001 Quant Results File: XPCBH20.RES



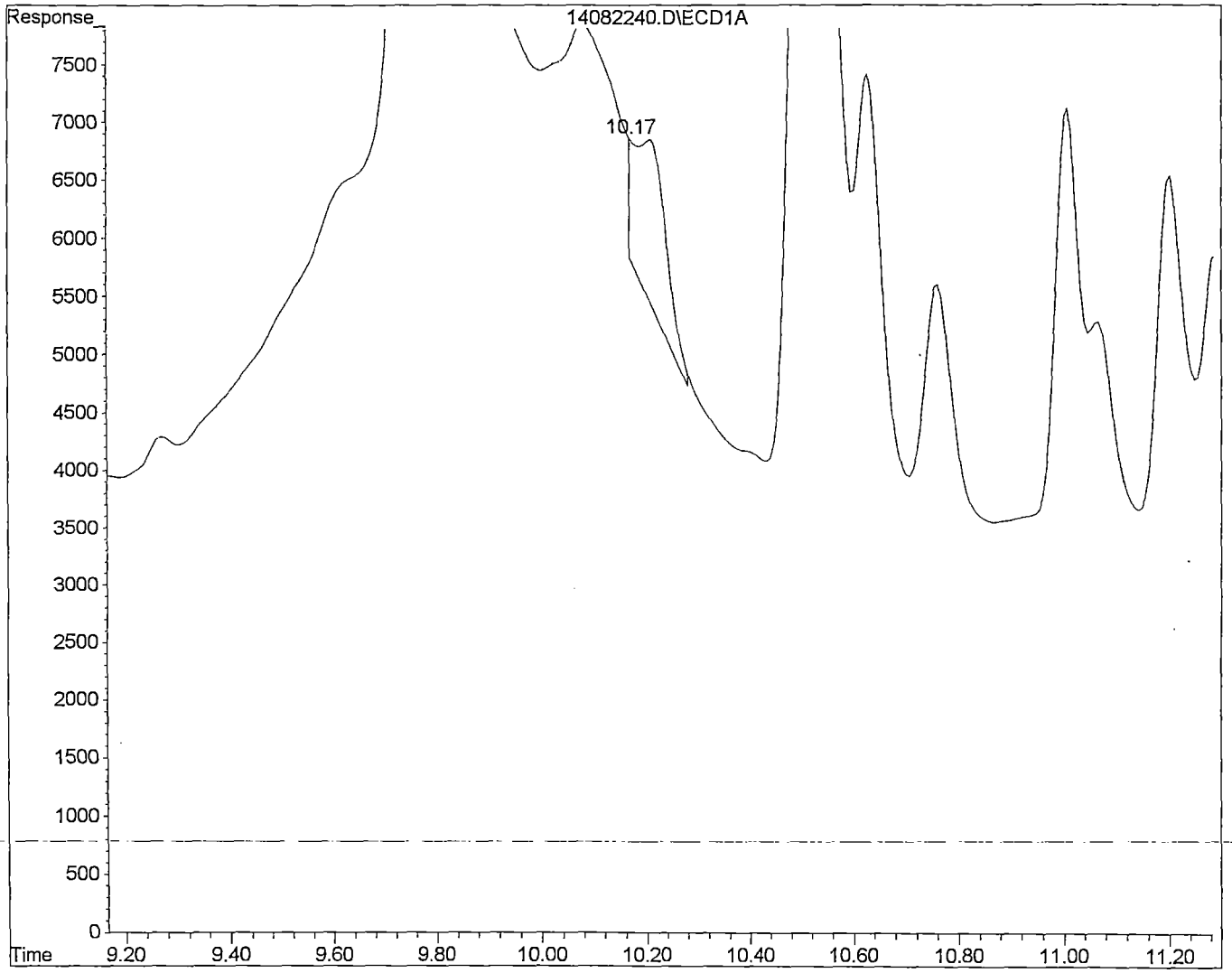
Aroclor-1242 10.08min area: 86564 m

Integration Time Range: 9.99 - 10.17 JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D
Report generated: Fri Sep 07 11:51:41 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D
Date Acquired: 23 Aug 2001 2:01
Inst: HP_14 Operator ID: TLM
Name: 47166.22 *E0100 *
Misc: *EPA*30.3G/5.0ML*39
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 11:51 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {2} 10.17min area: 57056 m

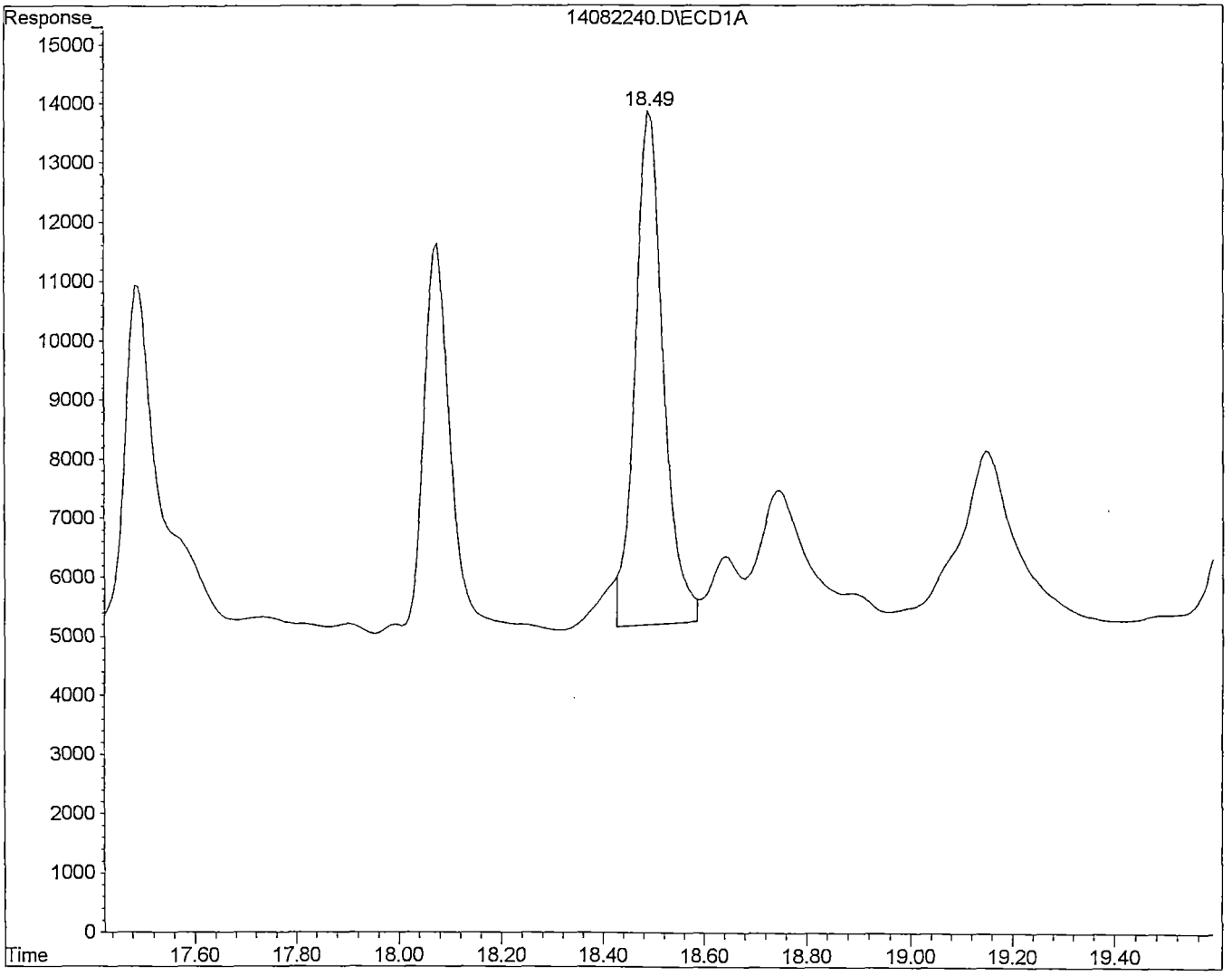
Integration Time Range: 10.17 - 10.28

9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D
Report generated: Fri Sep 07 11:51:41 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D
Date Acquired: 23 Aug 2001 2:01
Inst: HP_14 Operator ID: TLM
Name: 47166.22 *E0100 *
Misc: *EPA*30.3G/5.0ML*39
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 11:51 2001 Quant Results File: XPCBH20.RES



DCB 18.49min area: 338733 m

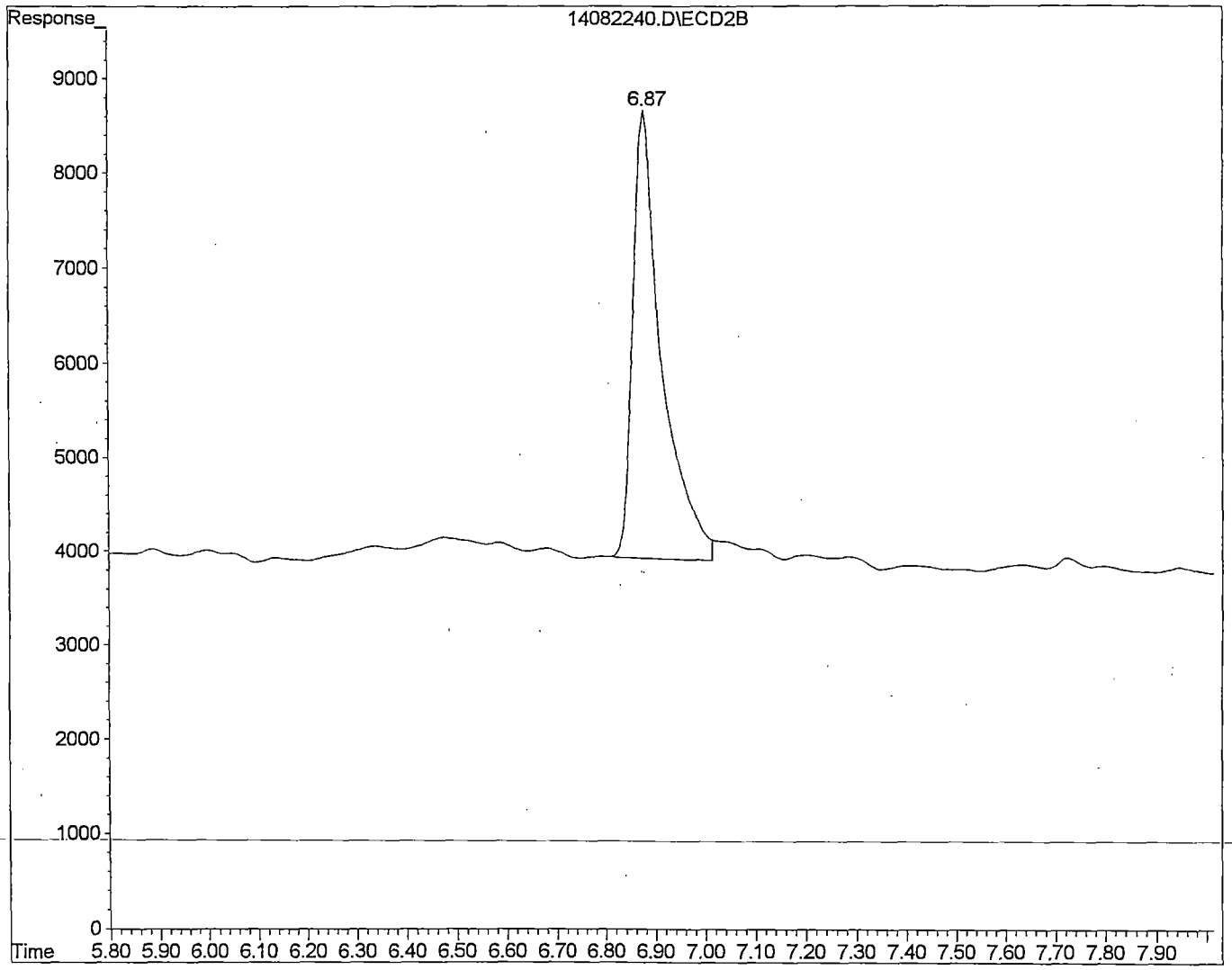
Integration Time Range: 18.42 - 18.59

JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D
Report generated: Fri Sep 07 11:51:42 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D
Date Acquired: 23 Aug 2001 2:01
Inst: HP_14 Operator ID: TLM
Name: 47166.22 *E0100 *
Misc: *EPA*30.3G/5.0ML*39
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 11:51 2001 Quant Results File: XPCBH20.RES



TCX #2 6.87min area: 190884 m

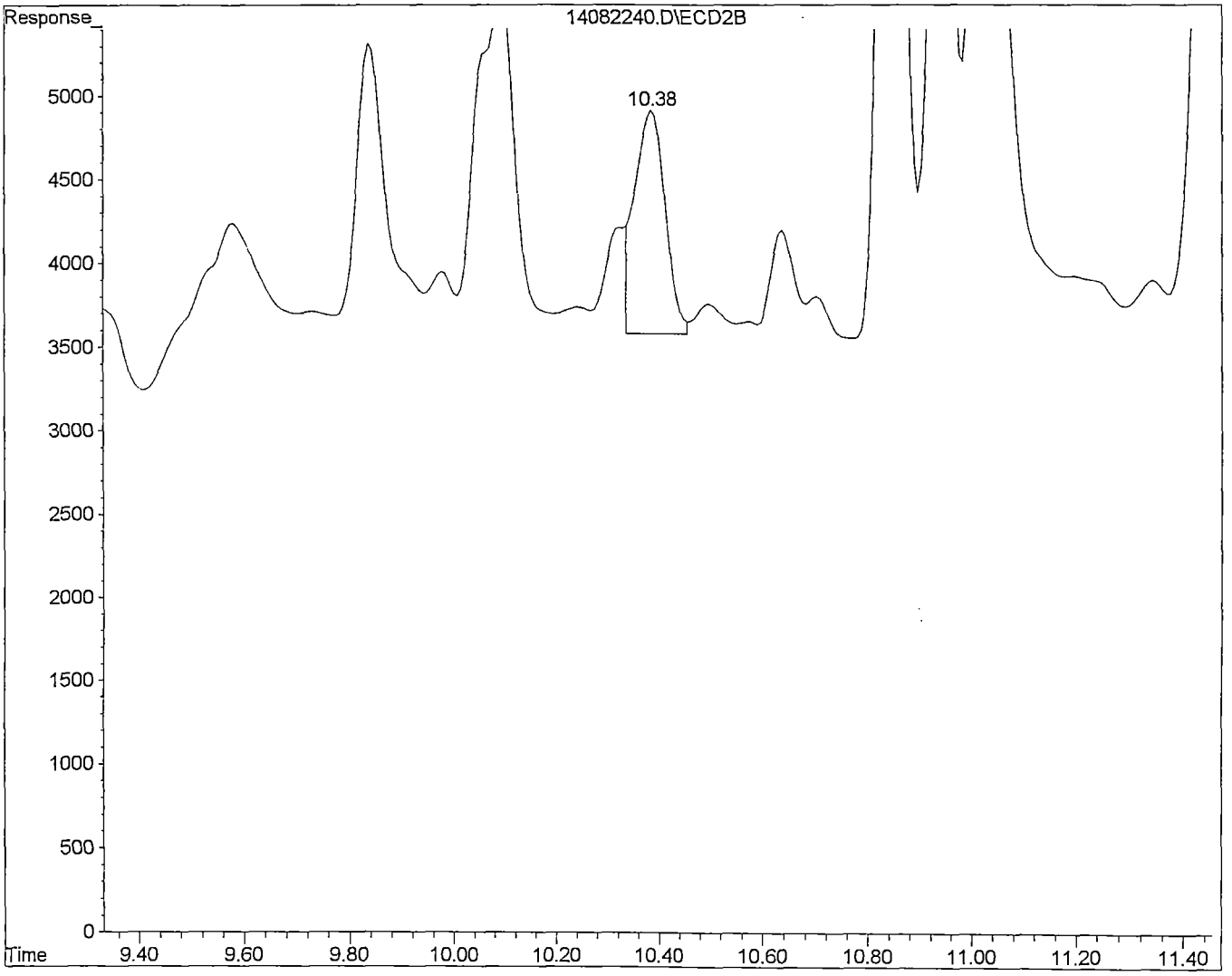
Integration Time Range: 6.80 - 7.01

JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D
Report generated: Fri Sep 07 11:51:43 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D
Date Acquired: 23 Aug 2001 2:01
Inst: HP_14 Operator ID: TLM
Name: 47166.22 *E0100 *
Misc: *EPA*30.3G/5.0ML*39
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 11:51 2001 Quant Results File: XPCBH20.RES



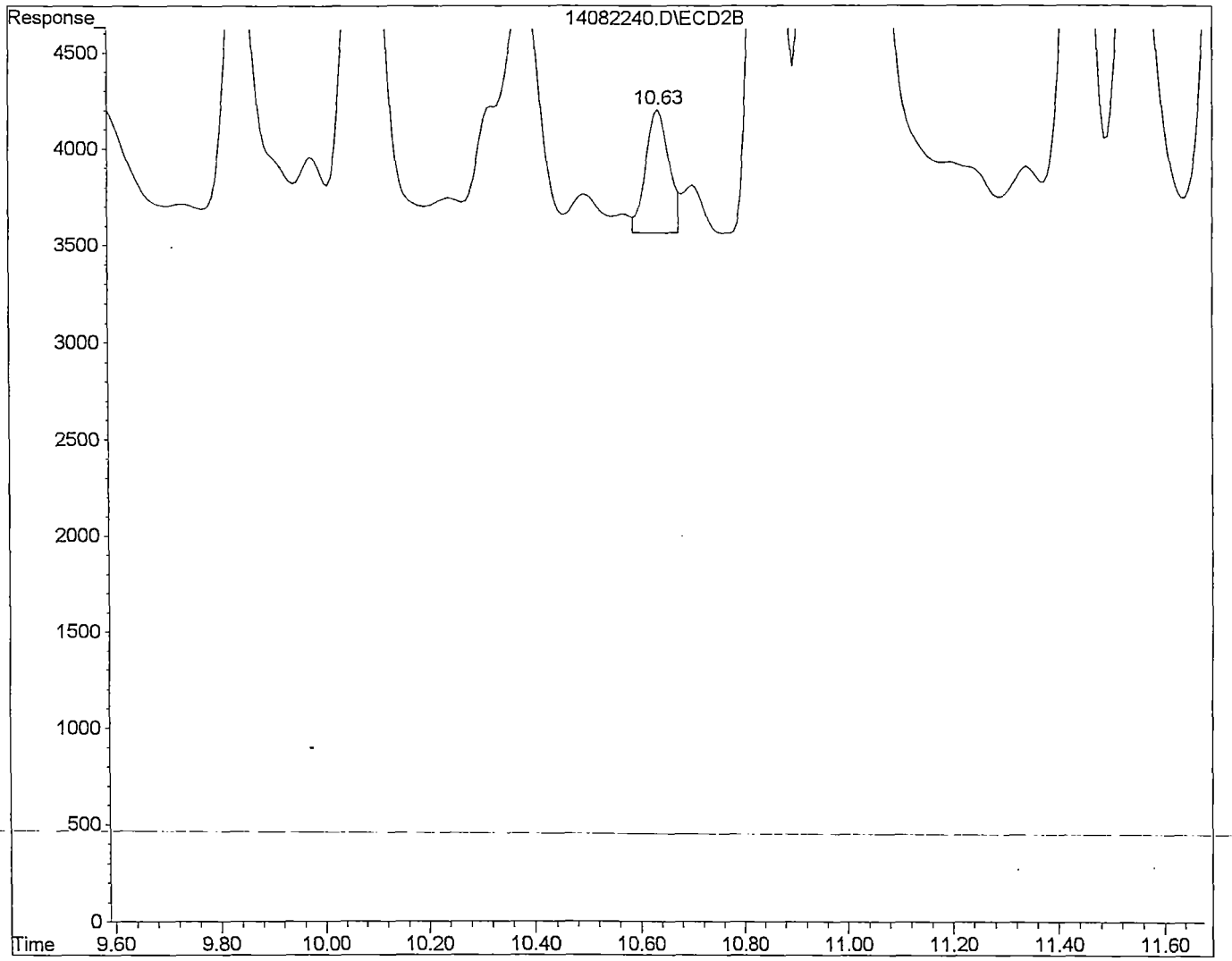
Aroclor-1242 #2 10.38min area: 53928 m

Integration Time Range: 10.33 - 10.45 JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D
Report generated: Fri Sep 07 11:51:43 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D
Date Acquired: 23 Aug 2001 2:01
Inst: HP_14 Operator ID: TLM
Name: 47166.22 *E0100 *
Misc: *EPA*30.3G/5.0ML*39
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 11:51 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {2} #2 10.63min area: 19808 m

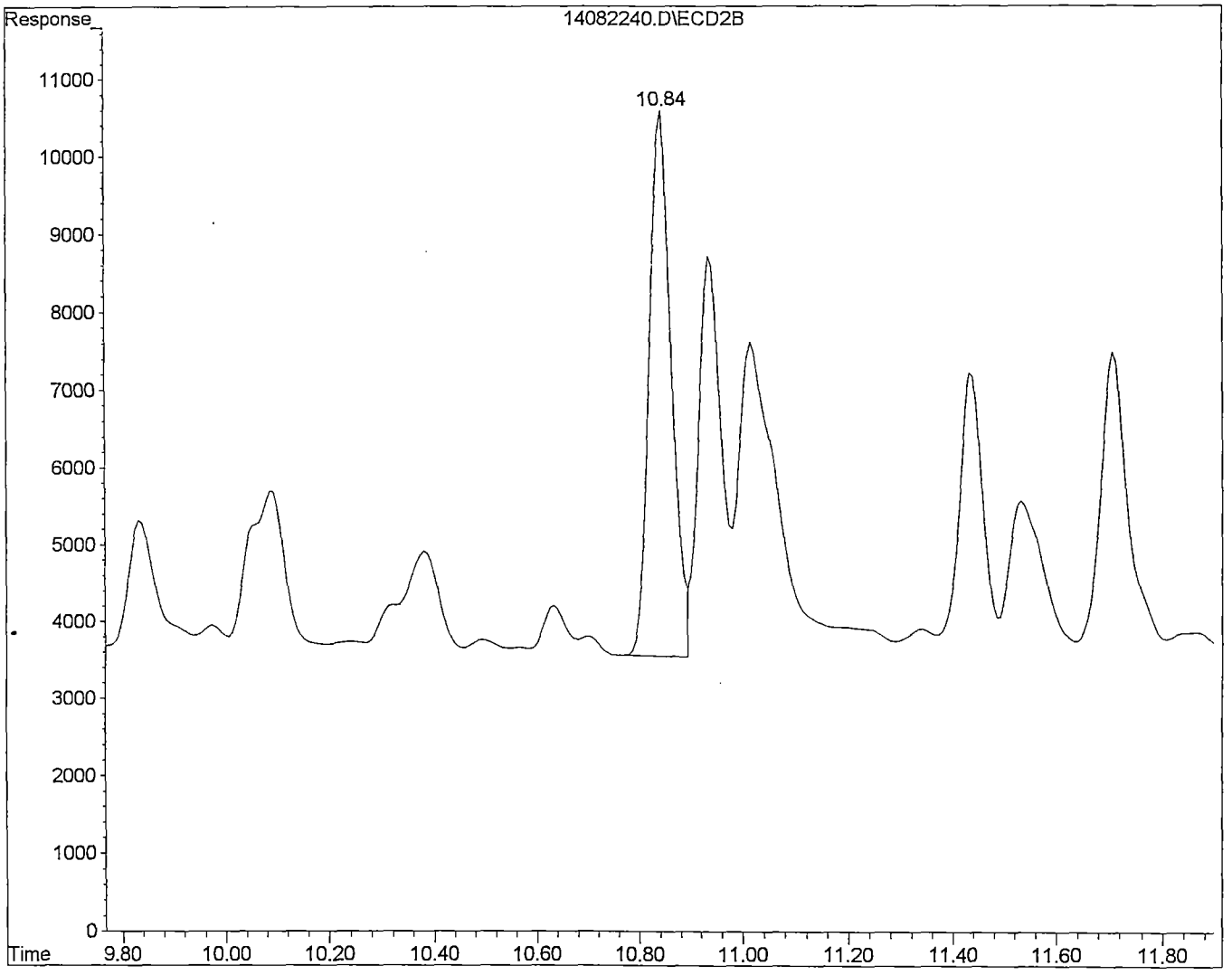
Integration Time Range: 10.59 - 10.67

JMM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D
Report generated: Fri Sep 07 11:51:44 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D
Date Acquired: 23 Aug 2001 2:01
Inst: HP_14 Operator ID: TLM
Name: 47166.22 *E0100 *
Misc: *EPA*30.3G/5.0ML*39
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 11:51 2001 Quant Results File: XPCBH20.RES



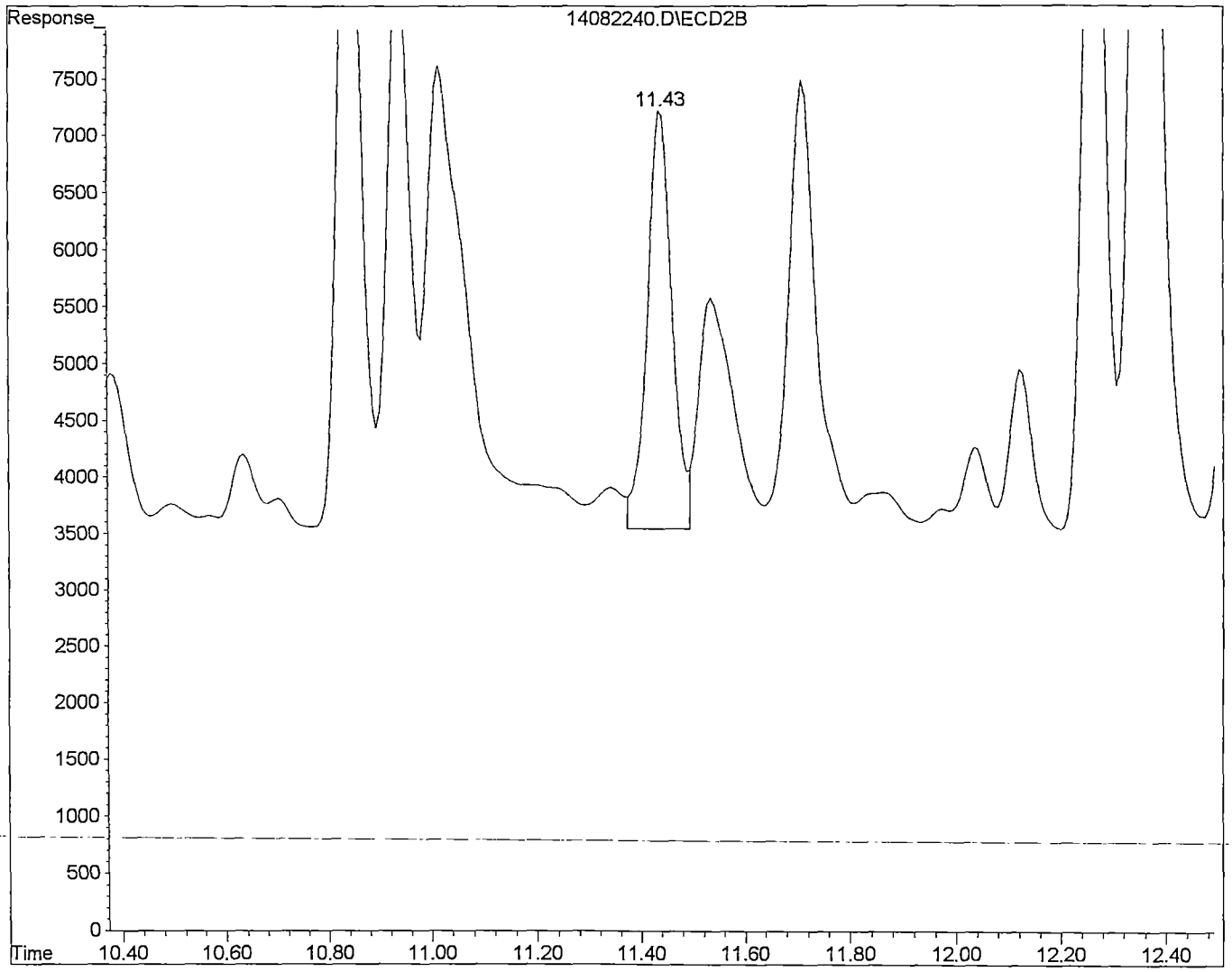
Aroclor-1242 {3} #2 10.84min area: 212948 m

Integration Time Range: 10.77 - 10.90 TM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D
Report generated: Fri Sep 07 11:51:44 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D
Date Acquired: 23 Aug 2001 2:01
Inst: HP_14 Operator ID: TLM
Name: 47166.22 *E0100 *
Misc: *EPA*30.3G/5.0ML*39
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 11:51 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {4} #2 11.43min area: 122316 m

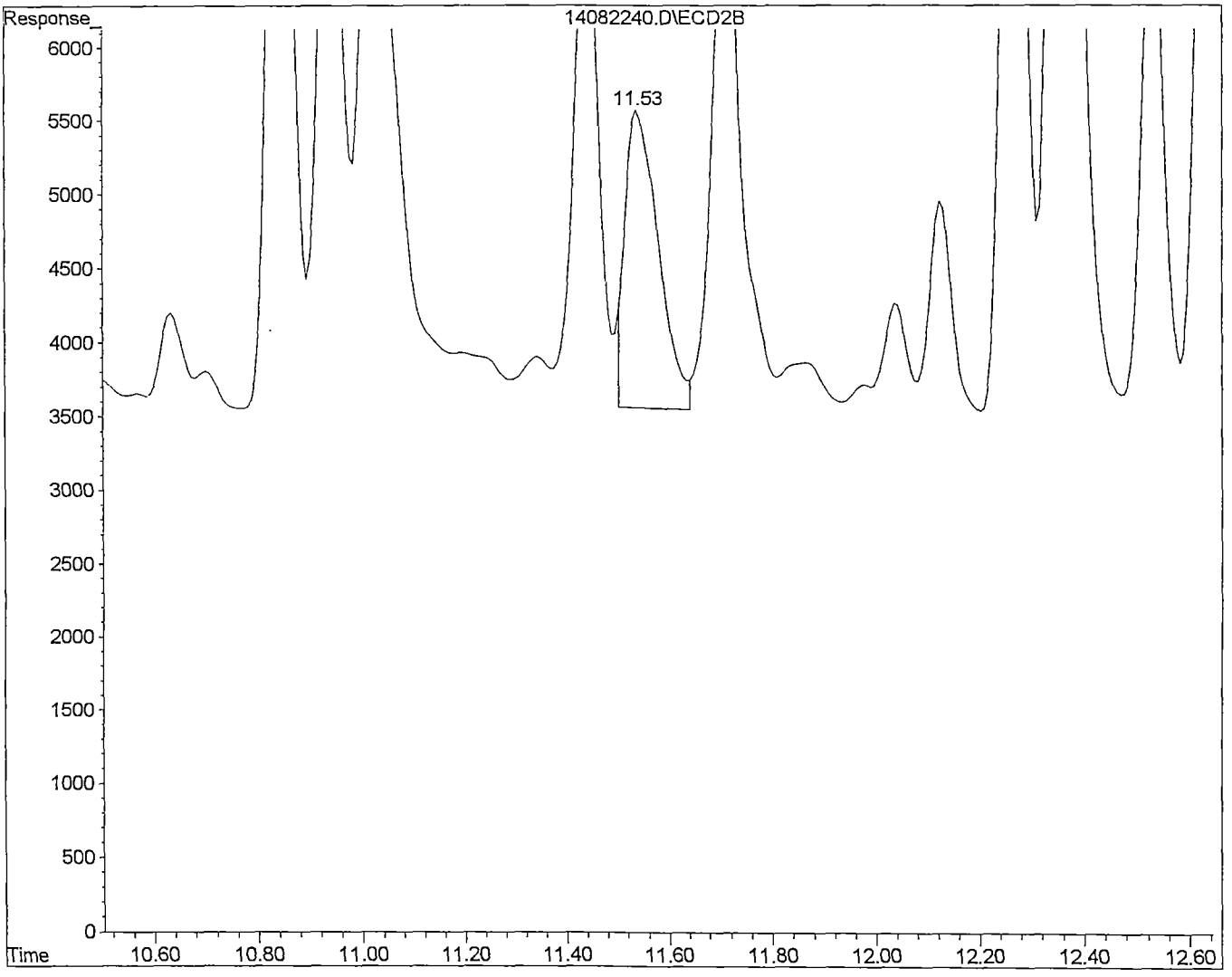
Integration Time Range: 11.37 - 11.49

JM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D
Report generated: Fri Sep 07 11:51:45 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D
Date Acquired: 23 Aug 2001 2:01
Inst: HP_14 Operator ID: TLM
Name: 47166.22 *E0100 *
Misc: *EPA*30.3G/5.0ML*39
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 11:51 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {5} #2 11.53min area: 90160 m

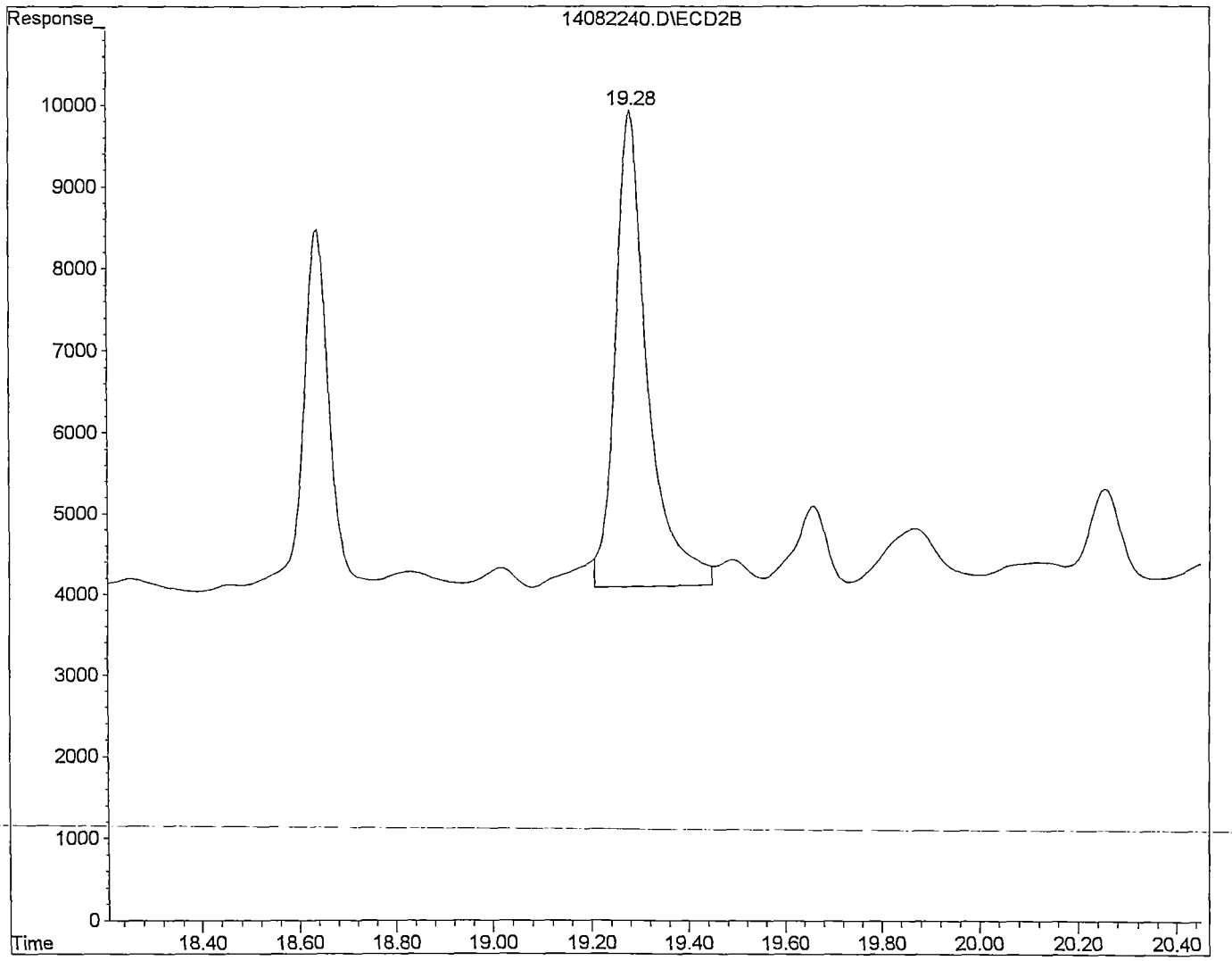
Integration Time Range: 11.50 - 11.64

JMA
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D
Report generated: Fri Sep 07 11:51:46 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D
Date Acquired: 23 Aug 2001 2:01
Inst: HP_14 Operator ID: TLM
Name: 47166.22 *E0100 *
Misc: *EPA*30.3G/5.0ML*39
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 11:51 2001 Quant Results File: XPCBH20.RES



DCB #2 19.28min area: 266953 m

Integration Time Range: 19.21 - 19.45

JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082240.D
Report generated: Fri Sep 07 11:51:47 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E0100DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.22DL

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

% Moisture: 39 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/29/01

Injection Volume: 0.5(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	270	U
11104-28-2	Aroclor-1221	270	U
11141-16-5	Aroclor-1232	270	U
53469-21-9	Aroclor-1242	320	DP
12672-29-6	Aroclor-1248	270	U
11097-69-1	Aroclor-1254	970	D
11096-82-5	Aroclor-1260	460	D
Surrogate amount spiked		10.82	

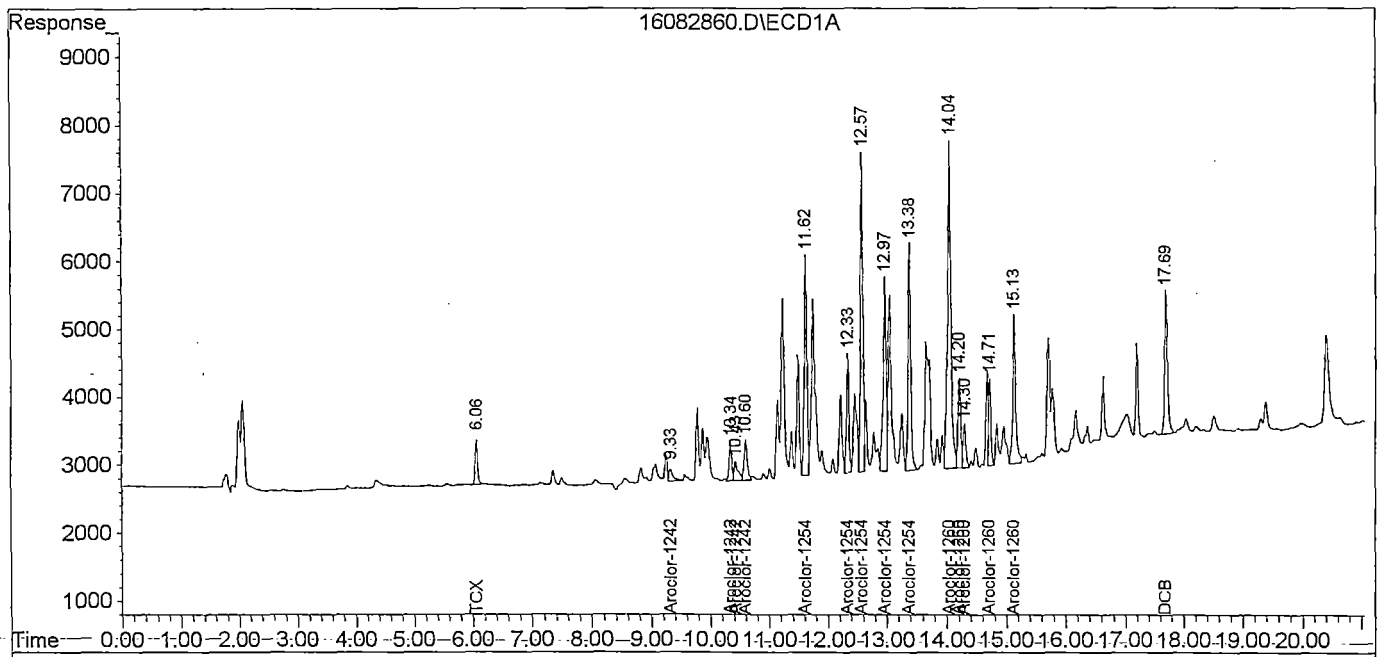
FORM I PCB

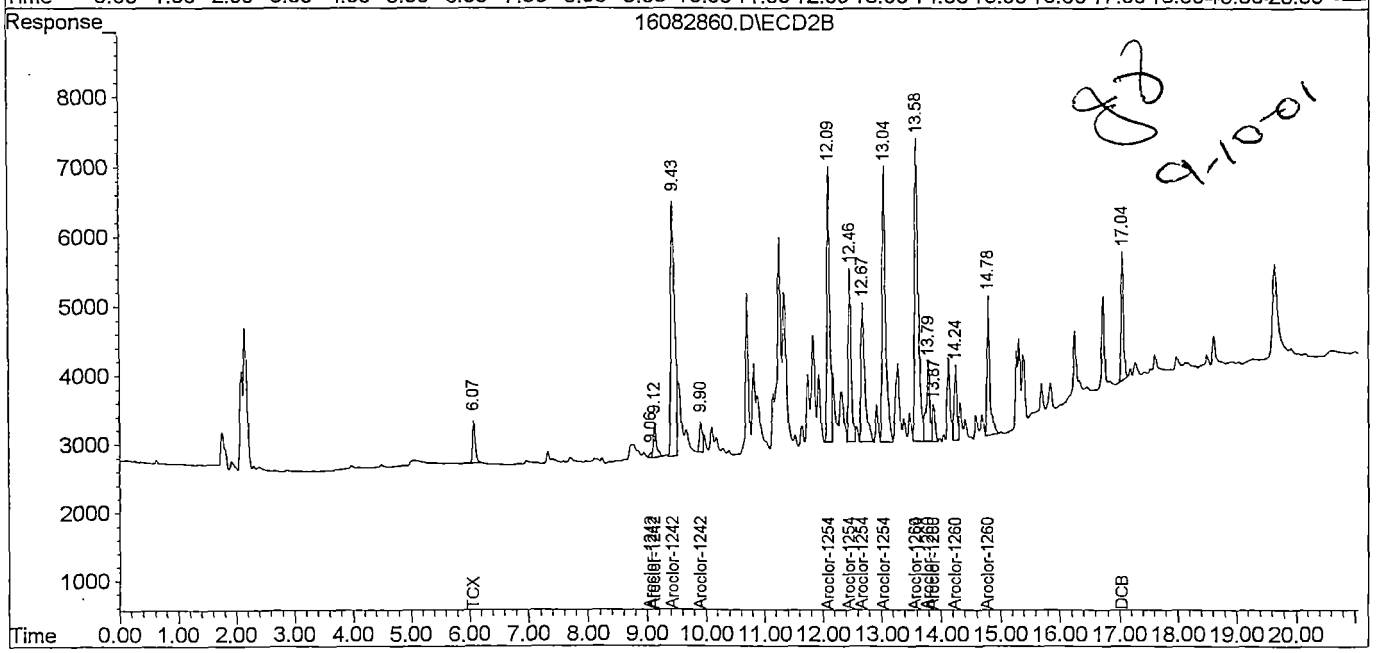
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082860.D\ECD1A.CH Vial: 60
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082860.D\ECD2B.CH
Acq On : 29 Aug 2001 12:47 Operator: TLM
Sample : 47166.22DL *E0100DL * Inst : HP_16
Misc : *EPA*30.3G/5.0ML*39 Dilution: 5.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 10 12:33 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082860.D\ECD1A.CH Vial: 60
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082860.D\ECD2B.CH
Acq On : 29 Aug 2001 12:47 Operator: TLM
Sample : 47166.22DL *E0100DL * Inst : HP_16
Misc : *EPA*30.3G/5.0ML*39 Dilution: 5.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 10 12:33 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

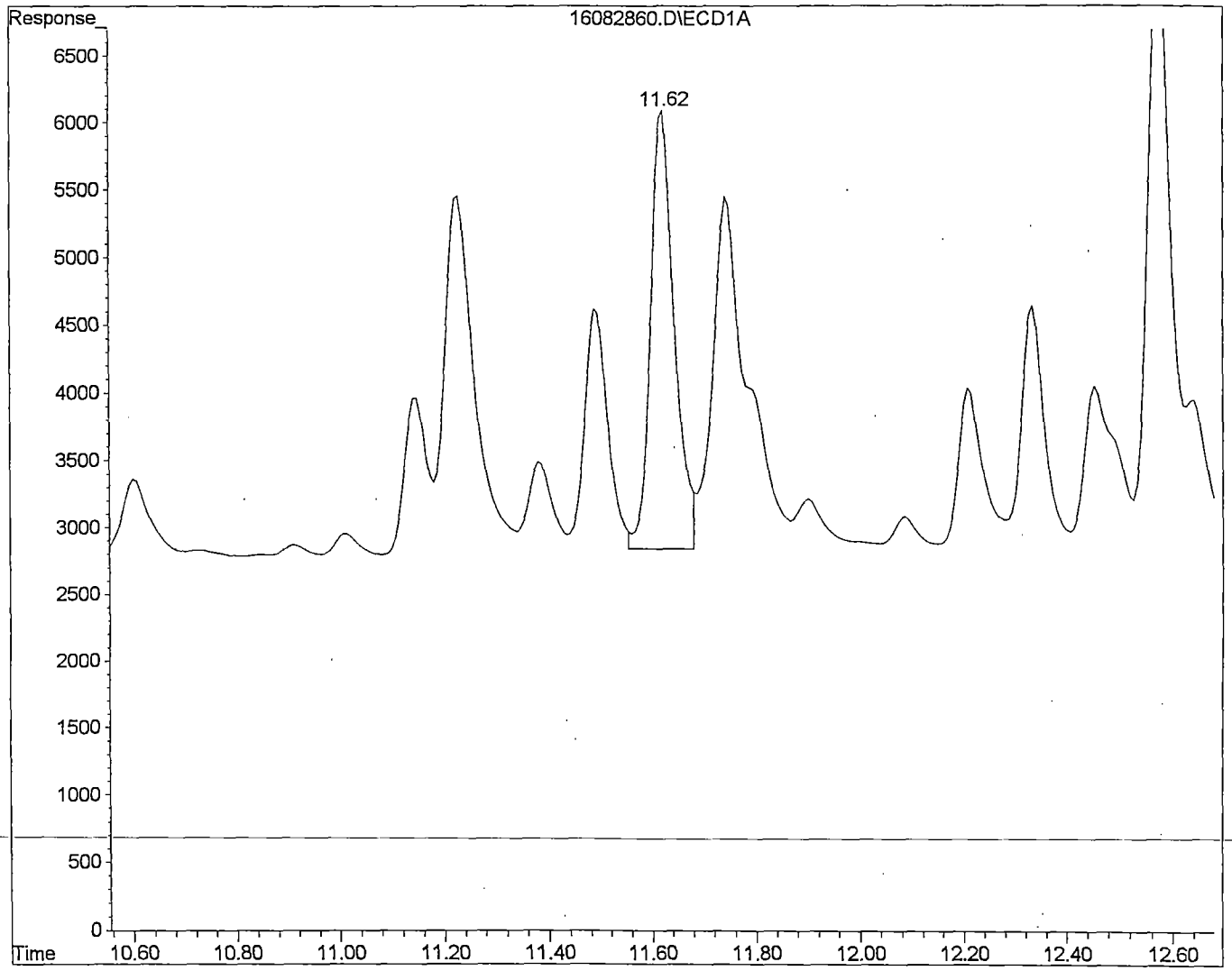
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	6.07	6.07	18844	19992	10.2	9.661	
	Spiked Amount 10.821			Recovery	=	94.26%	89.28%	
22)	S DCB	17.70	17.04	73428	52430	23.6	18.3	
	Spiked Amount 10.821			Recovery	=	218.10%	169.12%	
	Target Compounds:							
7)	L4 Aroclor-1242	9.33	9.06	9270	2184	111.5	33.8	#
8)	L4 Aroclor-1242 {2}	10.34	9.12f	18035	17724	362.6	453.3	#
9)	L4 Aroclor-1242 {3}	10.43	9.43	13313	172260	474.8	4982.5mE	#
10)	L4 Aroclor-1242 {4}	10.60	9.90	23129	14324	322.4	211.3	#
	Sum Aroclor-1242			63747	206491	1271.3	5680.9	
	Average Aroclor-1242					317.827	1420.228	
12)	L6 Aroclor-1254	11.62	12.09	104620	135762	947.4m	914.5	
13)	L6 Aroclor-1254 {2}	12.34	12.46	54094	82895	734.7	1248.4	#
14)	L6 Aroclor-1254 {3}	12.57	12.68	138544	93723	864.2	1199.8	#
15)	L6 Aroclor-1254 {4}	12.97	13.04	94242	163088	1151.1	1352.4	
16)	L6 Aroclor-1254 {5}	13.38	13.58	103633	185938	1174.7	1339.4	
	Sum Aroclor-1254			495133	661407	4872.0	6054.6	
	Average Aroclor-1254					974.402	1210.929	
17)	L7 Aroclor-1260	14.05	13.58	189078	185938	986.3	936.1	
18)	L7 Aroclor-1260 {2}	14.21	13.79	44678	47275	405.4	439.8	
19)	L7 Aroclor-1260 {3}	14.30	13.88	20322	16755	259.8	229.6	
20)	L7 Aroclor-1260 {4}	14.72	14.24	34665	36327	319.4	380.4	
21)	L7 Aroclor-1260 {5}	15.13	14.78	76514	68273	343.9	290.2	
	Sum Aroclor-1260			365256	354567	6261.5	6157.3	
	Average Aroclor-1260					462.926	455.220	

JM 9-10-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_28_01\16082860.D
Date Acquired: 29 Aug 2001 12:47
Inst: HP_16 Operator ID: TLM
Name: 47166.22DL *E0100DL *
Misc: *EPA*30.3G/5.0ML*39
Method: F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title: PCB/TOXAPHENE
Quant Time: Sep 10 12:33 2001 Quant Results File: XPCBH28.RES



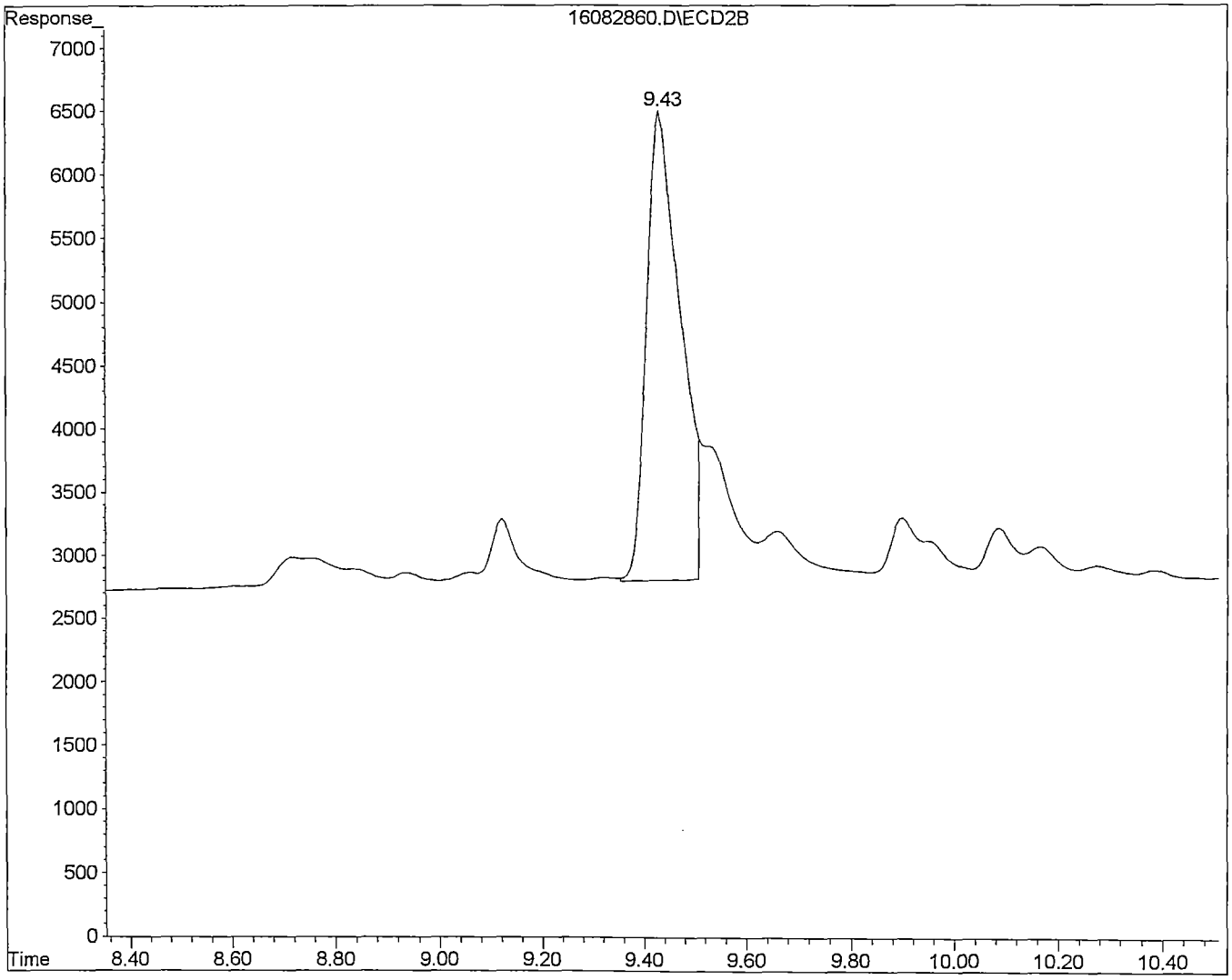
Aroclor-1254 11.62min area: 104620 m

Integration Time Range: 11.55 - 11.68 JM 9-10-9

F:\HPCHEM\HP\16\DATA\08_28_01\16082860.D
Report generated: Mon Sep 10 12:34:43 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_28_01\16082860.D
Date Acquired: 29 Aug 2001 12:47
Inst: HP_16 Operator ID: TLM
Name: 47166.22DL *E0100DL *
Misc: *EPA*30.3G/5.0ML*39
Method: F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title: PCB/TOXAPHENE
Quant Time: Sep 10 12:33 2001 Quant Results File: XPCBH28.RES



Aroclor-1242 {3} #2 9.43min area: 172260 m

Integration Time Range: 9.35 - 9.51 JM 9-10-01

F:\HPCHEM\HP\16\DATA\08_28_01\16082860.D
Report generated: Mon Sep 10 12:34:44 2001

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_14A Date(s) Analyzed: 08/20/01 08/20/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	10.08	272160	MEAN
		2	10.22	131140	
		3	10.64	151230	
		4	11.20	114880	
		5	11.29	135480	
Aroclor 1242 L2	0.20	1	10.08	264005	MEAN
		2	10.22	153470	
		3	10.64	175670	
		4	11.20	114180	
		5	11.29	150365	
Aroclor 1242 L3	0.40	1	10.08	270920	MEAN
		2	10.22	147568	
		3	10.64	170670	
		4	11.20	117168	
		5	11.29	148813	
Aroclor 1242 L4	0.80	1	10.08	254415	MEAN
		2	10.22	142303	
		3	10.64	159218	
		4	11.20	112388	
		5	11.29	145461	
Aroclor 1242 L5	1.60	1	10.08	236234	MEAN
		2	10.22	136583	
		3	10.64	147814	
		4	11.20	107138	
		5	11.29	142296	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	10.08	10.03	10.13	259547	5.7
	2	10.22	10.17	10.27	142213	6.2
	3	10.64	10.59	10.69	160920	7.5
	4	11.20	11.15	11.25	113151	3.3
	5	11.29	11.24	11.34	144483	4.1

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_14B Date(s) Analyzed: 08/20/01 08/20/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	10.38	214590	MEAN
		2	10.62	106390	
		3	10.83	150230	
		4	11.43	174120	
		5	11.52	88570	
Aroclor 1242 L2	0.20	1	10.39	215520	MEAN
		2	10.62	103420	
		3	10.83	141640	
		4	11.43	158095	
		5	11.52	91030	
Aroclor 1242 L3	0.40	1	10.39	205508	MEAN
		2	10.62	106923	
		3	10.83	139638	
		4	11.43	158173	
		5	11.52	97845	
Aroclor 1242 L4	0.80	1	10.39	184925	MEAN
		2	10.62	98664	
		3	10.83	124664	
		4	11.43	142196	
		5	11.52	90909	
Aroclor 1242 L5	1.60	1	10.39	162360	MEAN
		2	10.62	88602	
		3	10.83	108946	
		4	11.43	127153	
		5	11.52	84263	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	10.39	10.34	10.44	196581	11.6
	2	10.62	10.57	10.67	100800	7.5
	3	10.83	10.78	10.88	133024	12.3
	4	11.43	11.38	11.48	151947	11.8
	5	11.52	11.47	11.57	90523	5.4

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_14A Date(s) Analyzed: 08/20/01 08/20/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	11.85	373390	MEAN
		2	12.41	535790	
		3	13.02	223990	
		4	13.64	193590	
		5	14.19	298460	
Aroclor 1254 L2	0.20	1	11.85	418830	MEAN
		2	12.42	625805	
		3	13.02	300645	
		4	13.64	284095	
		5	14.20	466395	
Aroclor 1254 L3	0.40	1	11.85	402620	MEAN
		2	12.41	616800	
		3	13.02	311598	
		4	13.64	302005	
		5	14.20	481278	
Aroclor 1254 L4	0.80	1	11.85	408045	MEAN
		2	12.41	627778	
		3	13.02	324830	
		4	13.64	296915	
		5	14.19	451413	
Aroclor 1254 L5	1.60	1	11.85	352118	MEAN
		2	12.41	556209	
		3	13.02	302374	
		4	13.64	267478	
		5	14.19	407726	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	11.85	11.80	11.90	391001	7.0
	2	12.41	12.36	12.46	592476	7.3
	3	13.02	12.97	13.07	292687	13.5
	4	13.64	13.59	13.69	268817	16.4
	5	14.19	14.14	14.24	421054	17.5

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_14B Date(s) Analyzed: 08/20/01 08/20/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	12.35	343050	MEAN
		2	12.75	327230	
		3	13.47	199600	
		4	14.08	185520	
		5	14.46	222080	
Aroclor 1254 L2	0.20	1	12.35	380625	MEAN
		2	12.75	365815	
		3	13.47	247470	
		4	14.08	222845	
		5	14.46	272000	
Aroclor 1254 L3	0.40	1	12.35	346805	MEAN
		2	12.75	338930	
		3	13.47	231525	
		4	14.08	214380	
		5	14.46	260223	
Aroclor 1254 L4	0.80	1	12.34	319941	MEAN
		2	12.75	311514	
		3	13.47	217869	
		4	14.08	202125	
		5	14.46	224189	
Aroclor 1254 L5	1.60	1	12.34	263762	MEAN
		2	12.75	261433	
		3	13.47	186460	
		4	14.08	173809	
		5	14.46	185850	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	12.34	12.29	12.39	330837	13.1
	2	12.75	12.70	12.80	320984	12.1
	3	13.47	13.42	13.52	216585	11.2
	4	14.08	14.03	14.13	199736	10.1
	5	14.46	14.41	14.51	232868	14.7

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_14A Date(s) Analyzed: 08/20/01 08/20/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	7.82	300220	MEAN
		2	8.67	744950	
		3	9.77	840700	
		4	10.22	221440	
		5	11.85	235510	
Aroclor 1016 L2	0.20	1	7.82	249630	MEAN
		2	8.67	605270	
		3	9.77	681880	
		4	10.22	195100	
		5	11.85	197735	
Aroclor 1016 L3	0.40	1	7.82	252995	MEAN
		2	8.68	587968	
		3	9.77	708303	
		4	10.22	210535	
		5	11.85	213430	
Aroclor 1016 L4	0.80	1	7.81	241249	MEAN
		2	8.67	536131	
		3	9.77	694796	
		4	10.22	197459	
		5	11.85	198364	
Aroclor 1016 L5	1.60	1	7.81	226248	MEAN
		2	8.67	506282	
		3	9.77	734127	
		4	10.22	200474	
		5	11.85	200364	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	7.81	7.76	7.86	254068	10.9
	2	8.67	8.62	8.72	596120	15.5
	3	9.77	9.72	9.82	731961	8.7
	4	10.22	10.17	10.27	205002	5.3
	5	11.85	11.80	11.90	209081	7.7

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_14A Date(s) Analyzed: 08/20/01 08/20/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	14.71	646780	MEAN
		2	14.91	412150	
		3	14.99	386710	
		4	15.36	244090	
		5	15.88	979940	
Aroclor 1260 L2	0.20	1	14.71	575665	MEAN
		2	14.91	369435	
		3	14.99	335795	
		4	15.36	240430	
		5	15.89	858385	
Aroclor 1260 L3	0.40	1	14.72	688115	MEAN
		2	14.91	407540	
		3	14.99	333323	
		4	15.36	299473	
		5	15.89	891223	
Aroclor 1260 L4	0.80	1	14.72	676921	MEAN
		2	14.91	380790	
		3	14.99	285498	
		4	15.36	311899	
		5	15.89	860490	
Aroclor 1260 L5	1.60	1	14.71	726279	MEAN
		2	14.91	385351	
		3	14.99	271719	
		4	15.36	343748	
		5	15.88	881039	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	14.71	14.66	14.76	662752	8.5
	2	14.91	14.86	14.96	391053	4.6
	3	14.99	14.94	15.04	322609	14.2
	4	15.36	15.31	15.41	287928	15.5
	5	15.89	15.84	15.94	894215	5.6

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_14B Date(s) Analyzed: 08/20/01 08/20/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	8.08	251980	MEAN
		2	9.03	589150	
		3	9.52	138890	
		4	9.60	210030	
		5	10.08	744470	
Aroclor 1016 L2	0.20	1	8.08	203910	MEAN
		2	9.03	471175	
		3	9.52	113425	
		4	9.60	172985	
		5	10.08	592440	
Aroclor 1016 L3	0.40	1	8.08	195515	MEAN
		2	9.03	439793	
		3	9.52	111783	
		4	9.60	173290	
		5	10.08	635758	
Aroclor 1016 L4	0.80	1	8.08	183688	MEAN
		2	9.03	399053	
		3	9.52	104968	
		4	9.60	157875	
		5	10.08	586270	
Aroclor 1016 L5	1.60	1	8.07	168564	MEAN
		2	9.03	362661	
		3	9.52	98915	
		4	9.60	144524	
		5	10.08	565728	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	8.08	8.03	8.13	200731	15.7
	2	9.03	8.98	9.08	452366	19.2
	3	9.52	9.47	9.57	113596	13.4
	4	9.60	9.55	9.65	171741	14.3
	5	10.08	10.03	10.13	624933	11.4

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_14B Date(s) Analyzed: 08/20/01 08/20/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	15.11	642660	MEAN
		2	15.26	392670	
		3	15.36	281630	
		4	15.78	357680	
		5	16.18	655980	
Aroclor 1260 L2	0.20	1	15.11	545750	MEAN
		2	15.27	328210	
		3	15.36	231690	
		4	15.78	306530	
		5	16.18	552215	
Aroclor 1260 L3	0.40	1	15.11	566843	MEAN
		2	15.27	316965	
		3	15.36	213883	
		4	15.78	319363	
		5	16.18	631053	
Aroclor 1260 L4	0.80	1	15.11	498348	MEAN
		2	15.27	264039	
		3	15.36	172106	
		4	15.78	278195	
		5	16.18	537669	
Aroclor 1260 L5	1.60	1	15.11	478533	MEAN
		2	15.26	242553	
		3	15.36	155033	
		4	15.77	267006	
		5	16.17	510494	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	15.11	15.06	15.16	546427	11.8
	2	15.27	15.22	15.32	308887	19.1
	3	15.36	15.31	15.41	210868	23.8
	4	15.78	15.73	15.83	305755	11.7
	5	16.18	16.13	16.23	577482	10.9

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_14A Date(s) Analyzed: 08/20/01 08/20/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	7.35	120943	SINGLE
		2	7.72	73435	POINT
		3	7.82	318000	
		4			
		5			
Aroclor 1232	0.40	1	8.67	289708	SINGLE
		2	9.16	109943	POINT
		3	9.77	315623	
		4	10.22	84208	
		5			
Aroclor 1248	0.40	1	10.50	295093	SINGLE
		2	10.55	281240	POINT
		3	11.00	471123	
		4	11.20	212650	
		5	11.95	256345	

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_14B Date(s) Analyzed: 08/20/01 08/20/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	7.59	105503	SINGLE
		2	7.93	72693	POINT
		3	8.08	247338	
		4			
		5			
Aroclor 1232	0.40	1	9.03	220175	SINGLE
		2	9.60	79178	POINT
		3	10.08	273445	
		4	10.38	118005	
		5			
Aroclor 1248	0.40	1	10.83	245030	SINGLE
		2	10.93	219375	POINT
		3	11.43	256088	
		4	11.70	290323	
		5	12.35	322988	

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_15A Date(s) Analyzed: 09/04/01 09/04/01

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	8.19	546070	MEAN
		2	9.46	304560	
		3	10.40	964740	
		4	11.50	300190	
		5	11.84	359940	
Aroclor 1242 L2	0.20	1	8.19	481385	MEAN
		2	9.46	295520	
		3	10.40	918555	
		4	11.50	293765	
		5	11.84	366630	
Aroclor 1242 L3	0.40	1	8.19	473885	MEAN
		2	9.46	300080	
		3	10.40	913640	
		4	11.50	307555	
		5	11.84	401613	
Aroclor 1242 L4	0.80	1	8.19	412704	MEAN
		2	9.46	267428	
		3	10.40	798691	
		4	11.50	274298	
		5	11.84	361213	
Aroclor 1242 L5	1.60	1	8.19	393824	MEAN
		2	9.46	255213	
		3	10.40	762313	
		4	11.50	262308	
		5	11.84	343694	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	8.19	8.14	8.24	461574	13.1
	2	9.46	9.41	9.51	284560	7.7
	3	10.40	10.35	10.45	871588	9.9
	4	11.50	11.45	11.55	287623	6.5
	5	11.84	11.79	11.89	366618	5.8

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_15B Date(s) Analyzed: 09/04/01 09/04/01

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	10.15	310280	MEAN
		2	10.93	558930	
		3	12.05	606830	
		4	12.38	346860	
		5	12.77	688240	
Aroclor 1242 L2	0.20	1	10.15	296415	MEAN
		2	10.93	547715	
		3	12.05	604250	
		4	12.38	337560	
		5	12.77	691825	
Aroclor 1242 L3	0.40	1	10.15	303945	MEAN
		2	10.93	552618	
		3	12.05	604723	
		4	12.38	354715	
		5	12.77	694435	
Aroclor 1242 L4	0.80	1	10.15	267141	MEAN
		2	10.93	495645	
		3	12.05	539063	
		4	12.38	325670	
		5	12.77	623525	
Aroclor 1242 L5	1.60	1	10.15	264284	MEAN
		2	10.93	485069	
		3	12.05	518159	
		4	12.38	321949	
		5	12.77	608478	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	10.15	10.10	10.20	288413	7.4
	2	10.93	10.88	10.98	527995	6.6
	3	12.05	12.00	12.10	574605	7.4
	4	12.38	12.33	12.43	337351	4.1
	5	12.77	12.72	12.82	661301	6.3

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_15A Date(s) Analyzed: 09/04/01 09/04/01

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	12.38	885760	MEAN
		2	13.07	755070	
		3	13.57	833920	
		4	14.11	839690	
		5	14.81	630840	
Aroclor 1254 L2	0.20	1	12.38	1006560	MEAN
		2	13.07	810795	
		3	13.57	944715	
		4	14.11	940260	
		5	14.81	741255	
Aroclor 1254 L3	0.40	1	12.38	1105570	MEAN
		2	13.07	838923	
		3	13.56	1073235	
		4	14.11	1014810	
		5	14.81	866630	
Aroclor 1254 L4	0.80	1	12.38	891505	MEAN
		2	13.07	626703	
		3	13.56	864248	
		4	14.11	776240	
		5	14.80	698780	
Aroclor 1254 L5	1.60	1	12.38	841799	MEAN
		2	13.06	591994	
		3	13.56	846698	
		4	14.10	743318	
		5	14.80	713965	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	12.38	12.33	12.43	946239	11.4
	2	13.07	13.02	13.12	724697	15.2
	3	13.56	13.51	13.61	912563	10.9
	4	14.11	14.06	14.16	862864	13.1
	5	14.81	14.76	14.86	730294	11.8

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_15B Date(s) Analyzed: 09/04/01 09/04/01

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	12.05	447940	MEAN
		2	13.35	707860	
		3	13.71	607950	
		4	14.73	1142850	
		5	15.21	1035760	
Aroclor 1254 L2	0.20	1	12.05	421135	MEAN
		2	13.35	777800	
		3	13.71	714175	
		4	14.73	989620	
		5	15.21	1189505	
Aroclor 1254 L3	0.40	1	12.05	466070	MEAN
		2	13.35	803138	
		3	13.70	734795	
		4	14.73	1038733	
		5	15.20	1340415	
Aroclor 1254 L4	0.80	1	12.05	384653	MEAN
		2	13.34	612010	
		3	13.70	578136	
		4	14.73	785096	
		5	15.20	1067986	
Aroclor 1254 L5	1.60	1	12.05	364718	MEAN
		2	13.34	580954	
		3	13.70	545343	
		4	14.73	752305	
		5	15.20	1072299	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	12.05	12.00	12.10	416903	10.1
	2	13.35	13.30	13.40	696352	14.1
	3	13.70	13.65	13.75	636080	13.2
	4	14.73	14.68	14.78	941721	17.8
	5	15.20	15.15	15.25	1141193	11.0

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_15A Date(s) Analyzed: 09/04/01 09/04/01

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	8.18	710080	MEAN
		2	9.04	872600	
		3	10.27	834590	
		4	10.96	709200	
		5	11.66	267530	
Aroclor 1016 L2	0.20	1	8.18	625050	MEAN
		2	9.04	777390	
		3	10.27	773090	
		4	10.96	666695	
		5	11.66	255000	
Aroclor 1016 L3	0.40	1	8.18	645205	MEAN
		2	9.04	779160	
		3	10.27	809118	
		4	10.96	684595	
		5	11.66	260415	
Aroclor 1016 L4	0.80	1	8.18	562711	MEAN
		2	9.03	647663	
		3	10.27	693508	
		4	10.96	581556	
		5	11.66	219490	
Aroclor 1016 L5	1.60	1	8.18	501474	MEAN
		2	9.03	591763	
		3	10.27	684848	
		4	10.96	550653	
		5	11.66	203601	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	8.18	8.13	8.23	608904	13.1
	2	9.04	8.99	9.09	733715	15.4
	3	10.27	10.22	10.32	759031	8.9
	4	10.96	10.91	11.01	638540	10.8
	5	11.66	11.61	11.71	241207	11.6

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_15A Date(s) Analyzed: 09/04/01 09/04/01

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	14.11	1838570	MEAN
		2	14.62	2273540	
		3	15.07	2153200	
		4	15.54	1363640	
		5	15.99	2553240	
Aroclor 1260 L2	0.20	1	14.11	1771815	MEAN
		2	14.62	2268280	
		3	15.08	2199210	
		4	15.54	1398220	
		5	15.99	2697430	
Aroclor 1260 L3	0.40	1	14.11	1739193	MEAN
		2	14.62	2272868	
		3	15.07	2255628	
		4	15.54	1388075	
		5	15.99	2741950	
Aroclor 1260 L4	0.80	1	14.10	1432456	MEAN
		2	14.61	1911103	
		3	15.07	1915675	
		4	15.54	1159081	
		5	15.98	2332358	
Aroclor 1260 L5	1.60	1	14.10	1328236	MEAN
		2	14.61	1836803	
		3	15.07	1885583	
		4	15.54	1115910	
		5	15.98	2268136	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	14.10	14.05	14.15	1622054	14.0
	2	14.62	14.57	14.67	2112519	10.4
	3	15.07	15.02	15.12	2081859	8.2
	4	15.54	15.49	15.59	1284985	10.6
	5	15.99	15.94	16.04	2518623	8.4

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_15B Date(s) Analyzed: 09/04/01 09/04/01

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	8.65	705070	MEAN
		2	9.63	1686110	
		3	10.60	2840310	
		4	10.93	895810	
		5	12.05	1024440	
Aroclor 1016 L2	0.20	1	8.65	636480	MEAN
		2	9.63	1466155	
		3	10.60	2561615	
		4	10.93	819495	
		5	12.05	881290	
Aroclor 1016 L3	0.40	1	8.65	642198	MEAN
		2	9.63	1465640	
		3	10.60	2675855	
		4	10.93	858173	
		5	12.05	923795	
Aroclor 1016 L4	0.80	1	8.65	540966	MEAN
		2	9.63	1210343	
		3	10.60	2282441	
		4	10.92	732113	
		5	12.04	779554	
Aroclor 1016 L5	1.60	1	8.65	501001	MEAN
		2	9.63	1088993	
		3	10.60	2210155	
		4	10.92	716295	
		5	12.04	755961	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	8.65	8.60	8.70	605143	13.7
	2	9.63	9.58	9.68	1383448	17.0
	3	10.60	10.55	10.65	2514075	10.5
	4	10.93	10.88	10.98	804377	9.7
	5	12.05	12.00	12.10	873008	12.5

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_15B Date(s) Analyzed: 09/04/01 09/04/01

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	14.23	1168610	MEAN
		2	14.52	1966450	
		3	14.73	2632240	
		4	15.91	1473320	
		5	16.14	3486520	
Aroclor 1260 L2	0.20	1	14.23	1078850	MEAN
		2	14.52	1848335	
		3	14.73	2355780	
		4	15.91	1383590	
		5	16.14	3340010	
Aroclor 1260 L3	0.40	1	14.23	1109668	MEAN
		2	14.52	1826400	
		3	14.73	2219533	
		4	15.91	1378578	
		5	16.14	3341148	
Aroclor 1260 L4	0.80	1	14.23	933696	MEAN
		2	14.52	1506531	
		3	14.72	1825328	
		4	15.91	1152631	
		5	16.14	2847484	
Aroclor 1260 L5	1.60	1	14.22	914749	MEAN
		2	14.52	1405925	
		3	14.72	1698348	
		4	15.91	1093281	
		5	16.13	2701469	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	14.23	14.18	14.28	1041115	10.7
	2	14.52	14.47	14.57	1710728	14.1
	3	14.73	14.68	14.78	2146246	17.9
	4	15.91	15.86	15.96	1296280	12.7
	5	16.14	16.09	16.19	3143326	11.0

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_15A Date(s) Analyzed: 09/04/01 09/04/01

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	7.80	307765	SINGLE
		2	7.98	216510	POINT
		3	8.18	801055	
		4			
		5			
Aroclor 1232	0.40	1	8.19	672390	SINGLE
		2	9.04	298698	POINT
		3	9.46	189150	
		4	10.34	398068	
		5			
Aroclor 1248	0.40	1	9.04	318410	SINGLE
		2	10.28	441235	POINT
		3	11.07	785825	
		4	11.66	236488	
		5	12.56	1228873	

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16A Date(s) Analyzed: 08/28/01 08/28/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	9.38	273810	MEAN
		2	10.36	161740	
		3	10.44	89400	
		4	10.62	220360	
		5	12.60	54080	
Aroclor 1242 L2	0.20	1	9.37	198145	MEAN
		2	10.36	111795	
		3	10.44	64530	
		4	10.62	159825	
		5	12.60	37000	
Aroclor 1242 L3	0.40	1	9.37	266670	MEAN
		2	10.35	165015	
		3	10.44	92063	
		4	10.62	245108	
		5	12.60	62055	
Aroclor 1242 L4	0.80	1	9.37	194216	MEAN
		2	10.35	116529	
		3	10.44	69200	
		4	10.61	178096	
		5	12.59	48311	
Aroclor 1242 L5	1.60	1	9.36	191730	MEAN
		2	10.35	117683	
		3	10.44	64029	
		4	10.61	167052	
		5	12.59	50027	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	9.37	9.32	9.42	224914	18.5
	2	10.35	10.30	10.40	134552	19.6
	3	10.44	10.39	10.49	75844	18.2
	4	10.62	10.57	10.67	194088	19.0
	5	12.60	12.55	12.65	50295	18.2

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16B Date(s) Analyzed: 08/28/01 08/28/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	9.07	206870	MEAN
		2	9.20	118650	
		3	9.43	116030	
		4	9.91	215870	
		5	10.71	76460	
Aroclor 1242 L2	0.20	1	9.07	144175	MEAN
		2	9.20	84940	
		3	9.43	79210	
		4	9.91	149995	
		5	10.71	48160	
Aroclor 1242 L3	0.40	1	9.06	209353	MEAN
		2	9.20	126880	
		3	9.43	113215	
		4	9.91	222638	
		5	10.71	86870	
Aroclor 1242 L4	0.80	1	9.06	154721	MEAN
		2	9.19	96923	
		3	9.43	80874	
		4	9.91	163063	
		5	10.71	65026	
Aroclor 1242 L5	1.60	1	9.06	157699	MEAN
		2	9.19	101519	
		3	9.42	78299	
		4	9.90	165443	
		5	10.70	72261	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	9.06	9.01	9.11	174564	17.8
	2	9.20	9.15	9.25	105782	16.0
	3	9.43	9.38	9.48	93526	20.6
	4	9.91	9.86	9.96	183402	18.2
	5	10.71	10.66	10.76	69755	20.7

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16A Date(s) Analyzed: 08/28/01 08/28/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	11.64	387820	MEAN
		2	12.35	256820	
		3	12.60	539810	
		4	12.98	273540	
		5	13.40	256460	
Aroclor 1254 L2	0.20	1	11.63	314815	MEAN
		2	12.35	200190	
		3	12.59	445355	
		4	12.98	231510	
		5	13.40	253220	
Aroclor 1254 L3	0.40	1	11.63	303168	MEAN
		2	12.35	200853	
		3	12.59	444750	
		4	12.98	230268	
		5	13.39	259878	
Aroclor 1254 L4	0.80	1	11.63	270449	MEAN
		2	12.34	185174	
		3	12.58	404898	
		4	12.97	206316	
		5	13.39	236214	
Aroclor 1254 L5	1.60	1	11.62	217466	MEAN
		2	12.34	152884	
		3	12.58	333635	
		4	12.97	165774	
		5	13.38	187481	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	11.63	11.58	11.68	298743	20.9
	2	12.35	12.30	12.40	199184	18.9
	3	12.59	12.54	12.64	433690	17.2
	4	12.98	12.93	13.03	221482	17.8
	5	13.39	13.34	13.44	238650	12.6

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16B Date(s) Analyzed: 08/28/01 08/28/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	12.10	500350	MEAN
		2	12.47	219690	
		3	12.73	215950	
		4	13.05	391590	
		5	13.60	434630	
Aroclor 1254 L2	0.20	1	12.10	400705	MEAN
		2	12.47	177740	
		3	12.72	192285	
		4	13.05	330540	
		5	13.60	377805	
Aroclor 1254 L3	0.40	1	12.10	407413	MEAN
		2	12.46	186218	
		3	12.71	225965	
		4	13.05	341208	
		5	13.60	386278	
Aroclor 1254 L4	0.80	1	12.09	378638	MEAN
		2	12.46	171509	
		3	12.70	223770	
		4	13.05	311159	
		5	13.59	366765	
Aroclor 1254 L5	1.60	1	12.09	320811	MEAN
		2	12.46	142971	
		3	12.69	198588	
		4	13.04	256586	
		5	13.59	312176	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	12.09	12.04	12.14	401583	16.2
	2	12.46	12.41	12.51	179626	15.4
	3	12.71	12.66	12.76	211312	7.2
	4	13.05	13.00	13.10	326217	15.0
	5	13.60	13.55	13.65	375531	11.7

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16A Date(s) Analyzed: 08/28/01 08/28/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	7.19	122050	MEAN
		2	8.08	314730	
		3	8.53	53990	
		4	8.60	121150	
		5	9.88	146080	
Aroclor 1016 L2	0.20	1	7.19	141065	MEAN
		2	8.07	350535	
		3	8.53	68660	
		4	8.60	149730	
		5	9.88	166820	
Aroclor 1016 L3	0.40	1	7.19	126045	MEAN
		2	8.07	306498	
		3	8.53	63280	
		4	8.60	135883	
		5	9.87	147008	
Aroclor 1016 L4	0.80	1	7.19	128305	MEAN
		2	8.07	298990	
		3	8.53	67086	
		4	8.60	135251	
		5	9.87	146451	
Aroclor 1016 L5	1.60	1	7.19	106799	MEAN
		2	8.07	244372	
		3	8.53	57087	
		4	8.60	112762	
		5	9.87	120023	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	7.19	7.14	7.24	124853	9.9
	2	8.07	8.02	8.12	303025	12.6
	3	8.53	8.48	8.58	62021	10.2
	4	8.60	8.55	8.65	130955	10.9
	5	9.87	9.82	9.92	145276	11.5

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16A Date(s) Analyzed: 08/28/01 08/28/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	14.06	482020	MEAN
		2	14.21	295340	
		3	14.31	206140	
		4	14.72	275980	
		5	15.15	554050	
Aroclor 1260 L2	0.20	1	14.06	577005	MEAN
		2	14.21	347365	
		3	14.31	251210	
		4	14.72	332815	
		5	15.14	682025	
Aroclor 1260 L3	0.40	1	14.06	519678	MEAN
		2	14.21	302738	
		3	14.30	220190	
		4	14.72	295895	
		5	15.14	608505	
Aroclor 1260 L4	0.80	1	14.05	548319	MEAN
		2	14.21	301499	
		3	14.30	213446	
		4	14.72	306890	
		5	15.14	632320	
Aroclor 1260 L5	1.60	1	14.05	466078	MEAN
		2	14.20	243714	
		3	14.30	167226	
		4	14.72	256637	
		5	15.14	532671	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	14.05	14.00	14.10	518620	8.8
	2	14.21	14.16	14.26	298131	12.4
	3	14.30	14.25	14.35	211643	14.3
	4	14.72	14.67	14.77	293643	9.9
	5	15.14	15.09	15.19	601914	10.0

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16B Date(s) Analyzed: 08/28/01 08/28/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	6.96	107240	MEAN
		2	7.71	327490	
		3	9.07	198560	
		4	9.48	151700	
		5	11.81	102060	
Aroclor 1016 L2	0.20	1	6.95	134660	MEAN
		2	7.70	388540	
		3	9.06	242835	
		4	9.47	174810	
		5	11.81	121245	
Aroclor 1016 L3	0.40	1	6.95	122908	MEAN
		2	7.70	343035	
		3	9.06	217188	
		4	9.47	152873	
		5	11.81	109290	
Aroclor 1016 L4	0.80	1	6.94	132136	MEAN
		2	7.70	336598	
		3	9.06	224285	
		4	9.47	151160	
		5	11.81	111014	
Aroclor 1016 L5	1.60	1	6.94	113304	MEAN
		2	7.70	274226	
		3	9.05	189397	
		4	9.47	123126	
		5	11.81	90925	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	6.94	6.89	6.99	122050	9.7
	2	7.70	7.65	7.75	333978	12.2
	3	9.06	9.01	9.11	214453	9.9
	4	9.47	9.42	9.52	150734	12.2
	5	11.81	11.76	11.86	106907	10.5

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16B Date(s) Analyzed: 08/28/01 08/28/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	13.60	483250	MEAN
		2	13.79	276200	
		3	13.88	176970	
		4	14.25	231410	
		5	14.79	556140	
Aroclor 1260 L2	0.20	1	13.60	592900	MEAN
		2	13.79	335340	
		3	13.88	224845	
		4	14.24	290630	
		5	14.79	717930	
Aroclor 1260 L3	0.40	1	13.59	536768	MEAN
		2	13.79	295310	
		3	13.88	201880	
		4	14.24	259285	
		5	14.79	645220	
Aroclor 1260 L4	0.80	1	13.59	579884	MEAN
		2	13.79	298155	
		3	13.88	210054	
		4	14.24	276099	
		5	14.79	684221	
Aroclor 1260 L5	1.60	1	13.58	493854	MEAN
		2	13.79	248797	
		3	13.88	173479	
		4	14.24	234303	
		5	14.78	578446	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	13.59	13.54	13.64	537331	9.2
	2	13.79	13.74	13.84	290760	10.9
	3	13.88	13.83	13.93	197446	11.1
	4	14.24	14.19	14.29	258345	10.0
	5	14.79	14.74	14.84	636391	10.8

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16A Date(s) Analyzed: 08/28/01 08/28/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	6.74	75988	SINGLE
		2	7.06	54435	POINT
		3	7.19	227863	
		4			
		5			
Aroclor 1232	0.40	1	8.08	146950	SINGLE
		2	8.61	67388	POINT
		3	9.09	210760	
		4	9.37	125733	
		5			
Aroclor 1248	0.40	1	9.79	189205	SINGLE
		2	9.88	178270	POINT
		3	10.35	213045	
		4	10.62	302398	
		5	11.17	153818	

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16B Date(s) Analyzed: 08/28/01 08/28/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	6.51	62283	SINGLE
		2	6.84	30328	POINT
		3	6.94	222615	
		4			
		5			
Aroclor 1232	0.40	1	7.71	128800	SINGLE
		2	8.16	75545	POINT
		3	9.07	83195	
		4	9.48	54508	
		5			
Aroclor 1248	0.40	1	9.43	157348	SINGLE
		2	9.48	176640	POINT
		3	9.91	317670	
		4	10.18	159753	
		5	10.84	152153	

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16A Date(s) Analyzed: 08/31/01 08/31/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	9.34	166640	MEAN
		2	10.32	106980	
		3	10.41	56840	
		4	10.58	149550	
		5	11.02	41450	
Aroclor 1242 L2	0.20	1	9.34	183090	MEAN
		2	10.32	111945	
		3	10.41	61240	
		4	10.58	162230	
		5	11.01	48245	
Aroclor 1242 L3	0.40	1	9.34	209595	MEAN
		2	10.32	130973	
		3	10.40	72203	
		4	10.58	195900	
		5	11.01	60273	
Aroclor 1242 L4	0.80	1	9.33	198244	MEAN
		2	10.32	125704	
		3	10.40	68970	
		4	10.58	185090	
		5	11.00	64365	
Aroclor 1242 L5	1.60	1	9.32	167954	MEAN
		2	10.32	107467	
		3	10.40	56648	
		4	10.58	153811	
		5	10.99	58086	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	9.33	9.28	9.38	185105	10.1
	2	10.32	10.27	10.37	116614	9.5
	3	10.40	10.35	10.45	63180	11.2
	4	10.58	10.53	10.63	169316	11.9
	5	11.01	10.96	11.06	54484	17.2

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16B Date(s) Analyzed: 08/31/01 08/31/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	9.03	179570	MEAN
		2	9.17	104640	
		3	9.44	121050	
		4	9.88	178020	
		5	10.67	47300	
Aroclor 1242 L2	0.20	1	9.03	185260	MEAN
		2	9.16	108780	
		3	9.44	125790	
		4	9.87	189355	
		5	10.67	72285	
Aroclor 1242 L3	0.40	1	9.03	191188	MEAN
		2	9.16	115595	
		3	9.44	128285	
		4	9.87	198668	
		5	10.67	72498	
Aroclor 1242 L4	0.80	1	9.03	183210	MEAN
		2	9.16	114390	
		3	9.44	121328	
		4	9.87	192686	
		5	10.67	81083	
Aroclor 1242 L5	1.60	1	9.02	162198	MEAN
		2	9.15	103284	
		3	9.44	104128	
		4	9.87	169895	
		5	10.67	76831	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	9.03	8.98	9.08	180285	6.1
	2	9.16	9.11	9.21	109338	5.1
	3	9.44	9.39	9.49	120116	7.9
	4	9.87	9.82	9.92	185725	6.3
	5	10.67	10.62	10.72	69999	18.8

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16A Date(s) Analyzed: 08/31/01 08/31/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	11.60	297770	MEAN
		2	12.32	175970	
		3	12.56	384040	
		4	12.94	175460	
		5	13.36	157360	
Aroclor 1254 L2	0.20	1	11.60	329115	MEAN
		2	12.31	208785	
		3	12.56	456650	
		4	12.94	236350	
		5	13.36	242785	
Aroclor 1254 L3	0.40	1	11.60	314153	MEAN
		2	12.31	217508	
		3	12.55	463580	
		4	12.94	240490	
		5	13.36	268740	
Aroclor 1254 L4	0.80	1	11.59	273030	MEAN
		2	12.31	196486	
		3	12.55	414293	
		4	12.94	214408	
		5	13.36	242586	
Aroclor 1254 L5	1.60	1	11.59	232419	MEAN
		2	12.31	174998	
		3	12.55	364936	
		4	12.94	185816	
		5	13.35	212512	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	11.59	11.54	11.64	289297	13.1
	2	12.31	12.26	12.36	194749	9.8
	3	12.55	12.50	12.60	416700	10.4
	4	12.94	12.89	12.99	210505	13.9
	5	13.36	13.31	13.41	224797	19.0

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16B Date(s) Analyzed: 08/31/01 08/31/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	12.07	455310	MEAN
		2	12.43	184940	
		3	12.69	196600	
		4	13.02	340530	
		5	13.57	372030	
Aroclor 1254 L2	0.20	1	12.07	465870	MEAN
		2	12.43	205980	
		3	12.68	245525	
		4	13.02	373885	
		5	13.57	433160	
Aroclor 1254 L3	0.40	1	12.06	430758	MEAN
		2	12.43	198108	
		3	12.68	253480	
		4	13.02	348115	
		5	13.56	404648	
Aroclor 1254 L4	0.80	1	12.06	397276	MEAN
		2	12.43	184151	
		3	12.67	246368	
		4	13.01	318686	
		5	13.56	375638	
Aroclor 1254 L5	1.60	1	12.06	368356	MEAN
		2	12.43	152675	
		3	12.66	240913	
		4	13.01	287996	
		5	13.56	351943	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	12.06	12.01	12.11	423514	9.6
	2	12.43	12.38	12.48	185171	11.0
	3	12.68	12.63	12.73	236577	9.6
	4	13.02	12.97	13.07	333843	9.7
	5	13.56	13.51	13.61	387484	8.2

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16A Date(s) Analyzed: 08/31/01 08/31/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	7.16	160400	MEAN
		2	8.04	403790	
		3	8.50	71160	
		4	8.57	161680	
		5	9.85	188790	
Aroclor 1016 L2	0.20	1	7.16	136805	MEAN
		2	8.04	331145	
		3	8.50	63955	
		4	8.57	139925	
		5	9.84	158880	
Aroclor 1016 L3	0.40	1	7.16	144953	MEAN
		2	8.04	333865	
		3	8.50	66755	
		4	8.57	139575	
		5	9.84	160590	
Aroclor 1016 L4	0.80	1	7.15	116145	MEAN
		2	8.04	262275	
		3	8.50	55719	
		4	8.57	110319	
		5	9.84	122399	
Aroclor 1016 L5	1.60	1	7.15	112286	MEAN
		2	8.03	251558	
		3	8.50	57036	
		4	8.56	104952	
		5	9.84	127279	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	7.15	7.10	7.20	134118	15.0
	2	8.04	7.99	8.09	316527	19.5
	3	8.50	8.45	8.55	62925	10.4
	4	8.57	8.52	8.62	131290	17.9
	5	9.84	9.79	9.89	151588	17.9

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16A Date(s) Analyzed: 08/31/01 08/31/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	14.03	723860	MEAN
		2	14.18	410130	
		3	14.28	256360	
		4	14.70	408790	
		5	15.12	825250	
Aroclor 1260 L2	0.20	1	14.03	585655	MEAN
		2	14.18	338820	
		3	14.28	228210	
		4	14.70	332425	
		5	15.12	669615	
Aroclor 1260 L3	0.40	1	14.03	610683	MEAN
		2	14.18	340575	
		3	14.28	230515	
		4	14.70	343655	
		5	15.12	692920	
Aroclor 1260 L4	0.80	1	14.02	530546	MEAN
		2	14.18	284145	
		3	14.28	193691	
		4	14.70	300153	
		5	15.11	610694	
Aroclor 1260 L5	1.60	1	14.02	547408	MEAN
		2	14.18	275423	
		3	14.28	187083	
		4	14.69	302006	
		5	15.11	578963	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	14.02	13.97	14.07	599630	12.7
	2	14.18	14.13	14.23	329819	16.4
	3	14.28	14.23	14.33	219172	13.0
	4	14.70	14.65	14.75	337406	13.1
	5	15.12	15.07	15.17	675488	14.1

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16B Date(s) Analyzed: 08/31/01 08/31/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	6.92	132110	MEAN
		2	7.67	444120	
		3	9.03	311240	
		4	9.44	218830	
		5	11.78	149700	
Aroclor 1016 L2	0.20	1	6.92	107670	MEAN
		2	7.67	350095	
		3	9.03	235785	
		4	9.44	166905	
		5	11.78	116965	
Aroclor 1016 L3	0.40	1	6.91	136388	MEAN
		2	7.67	377473	
		3	9.03	254205	
		4	9.44	175625	
		5	11.78	124150	
Aroclor 1016 L4	0.80	1	6.91	120505	MEAN
		2	7.67	314578	
		3	9.03	215444	
		4	9.44	144875	
		5	11.78	105251	
Aroclor 1016 L5	1.60	1	6.90	129863	MEAN
		2	7.66	312055	
		3	9.02	225503	
		4	9.44	145366	
		5	11.78	107692	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	6.91	6.86	6.96	125307	9.1
	2	7.67	7.62	7.72	359664	15.1
	3	9.03	8.98	9.08	248435	15.3
	4	9.44	9.39	9.49	170320	17.8
	5	11.78	11.73	11.83	120752	14.8

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16B Date(s) Analyzed: 08/31/01 08/31/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	13.57	757360	MEAN
		2	13.77	426220	
		3	13.85	260590	
		4	14.22	378080	
		5	14.77	907520	
Aroclor 1260 L2	0.20	1	13.57	584755	MEAN
		2	13.76	326700	
		3	13.85	210760	
		4	14.22	289625	
		5	14.77	704640	
Aroclor 1260 L3	0.40	1	13.56	650825	MEAN
		2	13.76	349688	
		3	13.85	231253	
		4	14.22	316645	
		5	14.76	783755	
Aroclor 1260 L4	0.80	1	13.56	564248	MEAN
		2	13.76	294088	
		3	13.85	199113	
		4	14.22	274730	
		5	14.76	679181	
Aroclor 1260 L5	1.60	1	13.56	581440	MEAN
		2	13.76	299301	
		3	13.85	206512	
		4	14.22	290181	
		5	14.76	719298	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	13.56	13.51	13.61	627726	12.7
	2	13.76	13.71	13.81	339199	15.8
	3	13.85	13.80	13.90	221645	11.2
	4	14.22	14.17	14.27	309852	13.2
	5	14.76	14.71	14.81	758879	12.1

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16A Date(s) Analyzed: 08/31/01 08/31/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	6.70	61410	SINGLE
		2	7.02	44918	POINT
		3	7.15	187360	
		4			
		5			
Aroclor 1232	0.40	1	8.04	128393	SINGLE
		2	8.57	57623	POINT
		3	9.05	183828	
		4	9.34	104515	
		5			
Aroclor 1248	0.40	1	9.75	179230	SINGLE
		2	9.84	167420	POINT
		3	10.32	203145	
		4	10.58	280633	
		5	11.60	105780	

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16B Date(s) Analyzed: 08/31/01 08/31/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	6.46	58710	SINGLE
		2	6.80	30508	POINT
		3	6.90	227988	
		4			
		5			
Aroclor 1232	0.40	1	7.67	145200	SINGLE
		2	8.12	86768	POINT
		3	9.03	101448	
		4	9.44	63323	
		5			
Aroclor 1248	0.40	1	9.44	185010	SINGLE
		2	9.44	185010	POINT
		3	9.87	327128	
		4	10.14	151820	
		5	10.87	296023	

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16A Date(s) Analyzed: 09/05/01 09/05/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	7.14	129440	MEAN
		2	8.02	307290	
		3	9.34	252690	
		4	9.74	121070	
		5	10.31	128160	
Aroclor 1242 L2	0.20	1	7.15	118960	MEAN
		2	8.02	277575	
		3	9.34	243525	
		4	9.74	116845	
		5	10.31	123380	
Aroclor 1242 L3	0.40	1	7.14	119730	MEAN
		2	8.02	274068	
		3	9.33	248708	
		4	9.74	119695	
		5	10.30	128930	
Aroclor 1242 L4	0.80	1	7.14	135560	MEAN
		2	8.02	296808	
		3	9.32	281160	
		4	9.73	137854	
		5	10.30	156799	
Aroclor 1242 L5	1.60	1	7.14	120523	MEAN
		2	8.01	258343	
		3	9.31	247992	
		4	9.73	120291	
		5	10.30	141576	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	7.14	7.09	7.19	124843	5.9
	2	8.02	7.97	8.07	282817	6.8
	3	9.33	9.28	9.38	254815	5.9
	4	9.74	9.69	9.79	123151	6.8
	5	10.30	10.25	10.35	135769	10.0

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16B Date(s) Analyzed: 09/05/01 09/05/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	7.65	304970	MEAN
		2	8.10	169890	
		3	9.02	203090	
		4	9.37	102510	
		5	10.34	23600	
Aroclor 1242 L2	0.20	1	7.65	276600	MEAN
		2	8.10	174695	
		3	9.01	192920	
		4	9.37	95800	
		5	10.34	31155	
Aroclor 1242 L3	0.40	1	7.64	274573	MEAN
		2	8.10	175775	
		3	9.01	188433	
		4	9.37	94550	
		5	10.34	32095	
Aroclor 1242 L4	0.80	1	7.64	302408	MEAN
		2	8.09	200204	
		3	9.01	210846	
		4	9.36	106650	
		5	10.34	35993	
Aroclor 1242 L5	1.60	1	7.64	264628	MEAN
		2	8.09	179641	
		3	9.00	186726	
		4	9.36	91085	
		5	10.34	31014	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	7.64	7.59	7.69	284636	6.3
	2	8.10	8.05	8.15	180041	6.6
	3	9.01	8.96	9.06	196403	5.2
	4	9.37	9.32	9.42	98119	6.4
	5	10.34	10.29	10.39	30771	14.6

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16A Date(s) Analyzed: 09/05/01 09/05/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	11.18	411950	MEAN
		2	11.60	349510	
		3	12.57	509840	
		4	12.94	285060	
		5	13.37	302400	
Aroclor 1254 L2	0.20	1	11.18	392620	MEAN
		2	11.60	331830	
		3	12.56	497670	
		4	12.93	279685	
		5	13.36	308345	
Aroclor 1254 L3	0.40	1	11.18	414908	MEAN
		2	11.59	343650	
		3	12.55	528598	
		4	12.93	303623	
		5	13.36	343848	
Aroclor 1254 L4	0.80	1	11.17	369056	MEAN
		2	11.58	307276	
		3	12.54	481111	
		4	12.92	267893	
		5	13.35	314389	
Aroclor 1254 L5	1.60	1	11.17	410530	MEAN
		2	11.57	330983	
		3	12.53	530161	
		4	12.92	277743	
		5	13.34	331500	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	11.17	11.12	11.22	399813	4.8
	2	11.59	11.54	11.64	332650	4.9
	3	12.55	12.50	12.60	509476	4.1
	4	12.93	12.88	12.98	282801	4.7
	5	13.36	13.31	13.41	320096	5.4

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16B Date(s) Analyzed: 09/05/01 09/05/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	10.65	264630	MEAN
		2	11.22	315580	
		3	11.80	203390	
		4	12.41	206410	
		5	13.00	389790	
Aroclor 1254 L2	0.20	1	10.65	280395	MEAN
		2	11.21	326740	
		3	11.80	223200	
		4	12.41	230770	
		5	13.00	404160	
Aroclor 1254 L3	0.40	1	10.65	294540	MEAN
		2	11.21	348078	
		3	11.79	305683	
		4	12.41	273538	
		5	13.00	465725	
Aroclor 1254 L4	0.80	1	10.65	264596	MEAN
		2	11.21	315871	
		3	11.79	256520	
		4	12.41	259030	
		5	13.00	432384	
Aroclor 1254 L5	1.60	1	10.64	281859	MEAN
		2	11.20	341139	
		3	11.78	286534	
		4	12.40	279726	
		5	12.99	459117	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	10.65	10.60	10.70	277204	4.6
	2	11.21	11.16	11.26	329482	4.5
	3	11.79	11.74	11.84	255065	16.7
	4	12.41	12.36	12.46	249895	12.3
	5	13.00	12.95	13.05	430235	7.7

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16A Date(s) Analyzed: 09/05/01 09/05/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	6.68	93768	SINGLE
		2	7.00	63840	POINT
		3	7.14	273485	
		4			
		5			
Aroclor 1232	0.40	1	8.02	142978	SINGLE
		2	8.55	62193	POINT
		3	9.05	188660	
		4	9.33	119953	
		5			
Aroclor 1248	0.40	1	9.74	204680	SINGLE
		2	9.83	199398	POINT
		3	10.30	230980	
		4	10.57	351775	
		5	11.59	137860	

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16B Date(s) Analyzed: 09/05/01 09/05/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	6.45	75270	SINGLE
		2	6.78	31918	POINT
		3	6.88	306218	
		4			
		5			
Aroclor 1232	0.40	1	7.65	139548	SINGLE
		2	8.10	88120	POINT
		3	9.01	93683	
		4	9.42	58973	
		5			
Aroclor 1248	0.40	1	9.01	140180	SINGLE
		2	9.42	199408	POINT
		3	9.85	365298	
		4	10.12	211403	
		5	10.89	472803	

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16A Date(s) Analyzed: 09/06/01 09/06/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	8.03	388430	MEAN
		2	8.55	177320	
		3	9.59	202550	
		4	9.84	182230	
		5	10.60	226610	
Aroclor 1016 L2	0.20	1	8.03	330595	MEAN
		2	8.55	164705	
		3	9.59	185695	
		4	9.84	159610	
		5	10.60	228435	
Aroclor 1016 L3	0.40	1	8.02	372335	MEAN
		2	8.55	193718	
		3	9.58	226820	
		4	9.83	187363	
		5	10.59	282310	
Aroclor 1016 L4	0.80	1	8.02	345015	MEAN
		2	8.55	179231	
		3	9.58	219760	
		4	9.83	174904	
		5	10.58	269818	
Aroclor 1016 L5	1.60	1	8.02	265059	MEAN
		2	8.54	137504	
		3	9.57	174893	
		4	9.82	133844	
		5	10.57	211488	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	8.02	7.97	8.07	340287	14.0
	2	8.55	8.50	8.60	170496	12.4
	3	9.58	9.53	9.63	201944	10.9
	4	9.83	9.78	9.88	167590	12.9
	5	10.59	10.54	10.64	243732	12.5

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16A Date(s) Analyzed: 09/06/01 09/06/01

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

GC Column: RTX-PEST 2 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	13.38	491910	MEAN
		2	13.67	439340	
		3	14.18	372360	
		4	14.69	305800	
		5	15.13	803830	
Aroclor 1260 L2	0.20	1	13.37	429480	MEAN
		2	13.67	385750	
		3	14.18	313515	
		4	14.69	263380	
		5	15.13	697260	
Aroclor 1260 L3	0.40	1	13.36	534978	MEAN
		2	13.66	480915	
		3	14.17	371203	
		4	14.68	339593	
		5	15.12	713430	
Aroclor 1260 L4	0.80	1	13.35	508583	MEAN
		2	13.66	460058	
		3	14.16	344244	
		4	14.68	331111	
		5	15.11	681769	
Aroclor 1260 L5	1.60	1	13.34	389728	MEAN
		2	13.66	357187	
		3	14.16	261107	
		4	14.68	260421	
		5	15.10	534989	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	13.35	13.30	13.40	470936	12.7
	2	13.66	13.61	13.71	424650	12.2
	3	14.17	14.12	14.22	332486	14.0
	4	14.68	14.63	14.73	300061	12.3
	5	15.12	15.07	15.17	686256	14.1

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16B Date(s) Analyzed: 09/06/01 09/06/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	7.66	374130	MEAN
		2	9.01	250160	
		3	9.43	194310	
		4	9.86	316310	
		5	10.66	228540	
Aroclor 1016 L2	0.20	1	7.65	321060	MEAN
		2	9.02	239675	
		3	9.43	164595	
		4	9.86	271165	
		5	10.65	202645	
Aroclor 1016 L3	0.40	1	7.65	376325	MEAN
		2	9.02	280530	
		3	9.42	190430	
		4	9.86	322870	
		5	10.65	258638	
Aroclor 1016 L4	0.80	1	7.64	358171	MEAN
		2	9.01	263739	
		3	9.42	176720	
		4	9.85	308126	
		5	10.65	251299	
Aroclor 1016 L5	1.60	1	7.64	280088	MEAN
		2	9.01	204819	
		3	9.42	135552	
		4	9.85	240411	
		5	10.65	197557	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	7.64	7.59	7.69	341955	12.0
	2	9.01	8.96	9.06	247785	11.5
	3	9.42	9.37	9.47	172321	13.7
	4	9.86	9.81	9.91	291777	12.0
	5	10.65	10.60	10.70	227736	12.1

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Instrument ID: HP_16B Date(s) Analyzed: 09/06/01 09/06/01

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

GC Column: RTX-PEST ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	12.42	495580	MEAN
		2	13.58	525360	
		3	14.21	277850	
		4	14.77	758870	
		5	15.36	344800	
Aroclor 1260 L2	0.20	1	12.41	413755	MEAN
		2	13.58	467095	
		3	14.20	241595	
		4	14.76	659655	
		5	15.36	309040	
Aroclor 1260 L3	0.40	1	12.41	472595	MEAN
		2	13.57	592675	
		3	14.20	298225	
		4	14.76	799428	
		5	15.35	362000	
Aroclor 1260 L4	0.80	1	12.41	441129	MEAN
		2	13.56	597271	
		3	14.20	296124	
		4	14.75	802158	
		5	15.35	350228	
Aroclor 1260 L5	1.60	1	12.40	337616	MEAN
		2	13.55	484027	
		3	14.20	235668	
		4	14.75	644086	
		5	15.35	275782	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	12.41	12.36	12.46	432135	14.2
	2	13.57	13.52	13.62	533286	11.3
	3	14.20	14.15	14.25	269892	11.0
	4	14.76	14.71	14.81	732839	10.4
	5	15.35	15.30	15.40	328370	10.8

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column: RTX-PEST 2 ID: 0.32(mm) Init. Calib Date(s): 08/20/01 08/20/01

Client Sample No.(PIBLK): PIBLKAL Date Analyzed : 08/22/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1021

Client Sample No.: AR1660L3AZ Date Analyzed : 08/22/01

Lab Sample ID : 5-128-7 Time Analyzed : 1045

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.82	7.76	7.86	251540	254068	1.0
Aroclor 1016 #2	8.68	8.62	8.72	573425	596120	3.8
Aroclor 1016 #3	9.77	9.72	9.82	718995	731961	1.8
Aroclor 1016 #4	10.22	10.17	10.27	206478	205002	0.7
Aroclor 1016 #5	11.85	11.80	11.90	222558	209081	6.5
Aroclor 1260 #1	14.72	14.66	14.76	773443	662752	16.7*
Aroclor 1260 #2	14.91	14.86	14.96	440368	391053	12.6
Aroclor 1260 #3	14.99	14.94	15.04	298230	322609	7.6
Aroclor 1260 #4	15.36	15.31	15.41	376625	287928	30.8*
Aroclor 1260 #5	15.88	15.84	15.94	935735	894215	4.6

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column: RTX-PEST ID: 0.32(mm) Init. Calib Date(s): 08/20/01 08/20/01

Client Sample No.(PIBLK): PIBLKAL Date Analyzed : 08/22/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1021

Client Sample No.: AR1660L3AZ Date Analyzed : 08/22/01

Lab Sample ID : 5-128-7 Time Analyzed : 1045

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.08	8.03	8.13	175223	200731	12.7
Aroclor 1016 #2	9.03	8.98	9.08	390153	452366	13.8
Aroclor 1016 #3	9.52	9.47	9.57	100398	113596	11.6
Aroclor 1016 #4	9.60	9.55	9.65	153493	171741	10.6
Aroclor 1016 #5	10.08	10.03	10.13	584705	624933	6.4
Aroclor 1260 #1	15.11	15.06	15.16	598330	546427	9.5
Aroclor 1260 #2	15.27	15.22	15.32	315288	308887	2.1
Aroclor 1260 #3	15.36	15.31	15.41	198440	210868	5.9
Aroclor 1260 #4	15.78	15.73	15.83	336640	305755	10.1
Aroclor 1260 #5	16.18	16.13	16.23	649398	577482	12.5

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column: RTX-PEST 2 ID: 0.32(mm) Init. Calib Date(s): 08/20/01 08/20/01

Client Sample No.(PIBLK): PIBLKAM Date Analyzed : 08/22/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1958

Client Sample No.: AR1660L3AB Date Analyzed : 08/22/01

Lab Sample ID : 5-128-7 Time Analyzed : 2022

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.82	7.76	7.86	271400	254068	6.8
Aroclor 1016 #2	8.68	8.62	8.72	606785	596120	1.8
Aroclor 1016 #3	9.77	9.72	9.82	818645	731961	11.8
Aroclor 1016 #4	10.23	10.17	10.27	225980	205002	10.2
Aroclor 1016 #5	11.85	11.80	11.90	243408	209081	16.4*
Aroclor 1260 #1	14.72	14.66	14.76	876185	662752	32.2*
Aroclor 1260 #2	14.92	14.86	14.96	472430	391053	20.8*
Aroclor 1260 #3	15.00	14.94	15.04	281288	322609	12.8
Aroclor 1260 #4	15.36	15.31	15.41	426383	287928	48.1*
Aroclor 1260 #5	15.89	15.84	15.94	1003460	894215	12.2

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column: RTX-PEST ID: 0.32(mm) Init. Calib Date(s): 08/20/01 08/20/01

Client Sample No.(PIBLK): PIBLKAM Date Analyzed : 08/22/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1958

Client Sample No.: AR1660L3AB Date Analyzed : 08/22/01

Lab Sample ID : 5-128-7 Time Analyzed : 2022

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.08	8.03	8.13	205235	200731	2.2
Aroclor 1016 #2	9.04	8.98	9.08	457950	452366	1.2
Aroclor 1016 #3	9.53	9.47	9.57	115690	113596	1.8
Aroclor 1016 #4	9.60	9.55	9.65	175403	171741	2.1
Aroclor 1016 #5	10.08	10.03	10.13	677600	624933	8.4
Aroclor 1260 #1	15.12	15.06	15.16	626930	546427	14.7
Aroclor 1260 #2	15.27	15.22	15.32	316793	308887	2.6
Aroclor 1260 #3	15.36	15.31	15.41	189760	210868	10.0
Aroclor 1260 #4	15.78	15.73	15.83	344940	305755	12.8
Aroclor 1260 #5	16.18	16.13	16.23	643183	577482	11.4

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column: RTX-PEST 2 ID: 0.32(mm) Init. Calib Date(s): 08/20/01 08/20/01

Client Sample No.(PIBLK): PIBLKAN Date Analyzed : 08/23/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0337

Client Sample No.: AR1660L3AD Date Analyzed : 08/23/01

Lab Sample ID : 5-128-7 Time Analyzed : 0402

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.82	7.76	7.86	290105	254068	14.2
Aroclor 1016 #2	8.69	8.62	8.72	647730	596120	8.7
Aroclor 1016 #3	9.78	9.72	9.82	934925	731961	27.7*
Aroclor 1016 #4	10.23	10.17	10.27	254333	205002	24.1*
Aroclor 1016 #5	11.86	11.80	11.90	275415	209081	31.7*
Aroclor 1260 #1	14.72	14.66	14.76	988090	662752	49.1*
Aroclor 1260 #2	14.92	14.86	14.96	520278	391053	33.0*
Aroclor 1260 #3	15.00	14.94	15.04	291973	322609	9.5
Aroclor 1260 #4	15.36	15.31	15.41	479408	287928	66.5*
Aroclor 1260 #5	15.89	15.84	15.94	1049940	894215	17.4*

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column: RTX-PEST ID: 0.32(mm) Init. Calib Date(s): 08/20/01 08/20/01

Client Sample No.(PIBLK): PIBLKAN Date Analyzed : 08/23/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0337

Client Sample No.: AR1660L3AD Date Analyzed : 08/23/01

Lab Sample ID : 5-128-7 Time Analyzed : 0402

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.09	8.03	8.13	232835	200731	16.0*
Aroclor 1016 #2	9.04	8.98	9.08	522898	452366	15.6*
Aroclor 1016 #3	9.53	9.47	9.57	132388	113596	16.5*
Aroclor 1016 #4	9.61	9.55	9.65	206223	171741	20.1*
Aroclor 1016 #5	10.09	10.03	10.13	795165	624933	27.2*
Aroclor 1260 #1	15.12	15.06	15.16	689055	546427	26.1*
Aroclor 1260 #2	15.27	15.22	15.32	342603	308887	10.9
Aroclor 1260 #3	15.37	15.31	15.41	198923	210868	5.7
Aroclor 1260 #4	15.78	15.73	15.83	376058	305755	23.0*
Aroclor 1260 #5	16.18	16.13	16.23	672223	577482	16.4*

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 09/04/01 09/04/01

Client Sample No.(PIBLK): PIBLKBF Date Analyzed : 09/07/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1006

Client Sample No.: AR1660L3BY Date Analyzed : 09/07/01

Lab Sample ID : 5-210-7 Time Analyzed : 1029

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.18	8.13	8.23	632518	608904	3.9
Aroclor 1016 #2	9.03	8.99	9.09	716815	733715	2.3
Aroclor 1016 #3	10.26	10.22	10.32	725165	759031	4.5
Aroclor 1016 #4	10.95	10.91	11.01	625055	638540	2.1
Aroclor 1016 #5	11.65	11.61	11.71	231158	241207	4.2
Aroclor 1260 #1	14.10	14.05	14.15	1615890	1622054	0.4
Aroclor 1260 #2	14.61	14.57	14.67	2157508	2112519	2.1
Aroclor 1260 #3	15.07	15.02	15.12	2138763	2081859	2.7
Aroclor 1260 #4	15.53	15.49	15.59	1310173	1284985	2.0
Aroclor 1260 #5	15.98	15.94	16.04	2595853	2518623	3.1

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 09/04/01 09/04/01

Client Sample No.(PIBLK): PIBLKBF Date Analyzed : 09/07/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1006

Client Sample No.: AR1660L3BY Date Analyzed : 09/07/01

Lab Sample ID : 5-210-7 Time Analyzed : 1029

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.64	8.60	8.70	692503	605143	14.4
Aroclor 1016 #2	9.62	9.58	9.68	1585643	1383448	14.6
Aroclor 1016 #3	10.60	10.55	10.65	2705088	2514075	7.6
Aroclor 1016 #4	10.92	10.88	10.98	872218	804377	8.4
Aroclor 1016 #5	12.04	12.00	12.10	948473	873008	8.6
Aroclor 1260 #1	14.22	14.18	14.28	1179110	1041115	13.3
Aroclor 1260 #2	14.52	14.47	14.57	1972875	1710728	15.3*
Aroclor 1260 #3	14.72	14.68	14.78	2398830	2146246	11.8
Aroclor 1260 #4	15.90	15.86	15.96	1467460	1296280	13.2
Aroclor 1260 #5	16.13	16.09	16.19	3609265	3143326	14.8

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 09/04/01 09/04/01

Client Sample No.(PIBLK): PIBLKBG Date Analyzed : 09/07/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1731

Client Sample No.: AR1660L3BA Date Analyzed : 09/07/01

Lab Sample ID : 5-210-7 Time Analyzed : 1754

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.18	8.13	8.23	653383	608904	7.3
Aroclor 1016 #2	9.04	8.99	9.09	755848	733715	3.0
Aroclor 1016 #3	10.27	10.22	10.32	761823	759031	0.4
Aroclor 1016 #4	10.96	10.91	11.01	667243	638540	4.5
Aroclor 1016 #5	11.66	11.61	11.71	240625	241207	0.2
Aroclor 1260 #1	14.11	14.05	14.15	1700935	1622054	4.9
Aroclor 1260 #2	14.62	14.57	14.67	2283083	2112519	8.1
Aroclor 1260 #3	15.07	15.02	15.12	2239250	2081859	7.6
Aroclor 1260 #4	15.54	15.49	15.59	1613915	1284985	25.6*
Aroclor 1260 #5	15.99	15.94	16.04	2724900	2518623	8.2

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 09/04/01 09/04/01

Client Sample No.(PIBLK): PIBLKBG Date Analyzed : 09/07/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1731

Client Sample No.: AR1660L3BA Date Analyzed : 09/07/01

Lab Sample ID : 5-210-7 Time Analyzed : 1754

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.65	8.60	8.70	698045	605143	15.4*
Aroclor 1016 #2	9.63	9.58	9.68	1571530	1383448	13.6
Aroclor 1016 #3	10.61	10.55	10.65	2783370	2514075	10.7
Aroclor 1016 #4	10.93	10.88	10.98	875140	804377	8.8
Aroclor 1016 #5	12.05	12.00	12.10	944660	873008	8.2
Aroclor 1260 #1	14.23	14.18	14.28	1173653	1041115	12.7
Aroclor 1260 #2	14.52	14.47	14.57	1932780	1710728	13.0
Aroclor 1260 #3	14.73	14.68	14.78	2351688	2146246	9.6
Aroclor 1260 #4	15.91	15.86	15.96	1413330	1296280	9.0
Aroclor 1260 #5	16.14	16.09	16.19	3572030	3143326	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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column: RTX-PEST 2 ID: 0.32(mm) Init. Calib Date(s): 08/28/01 08/28/01

Client Sample No.(PIBLK): PIBLKC1 Date Analyzed : 08/29/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0548

Client Sample No.: AR1660L3CE Date Analyzed : 08/29/01

Lab Sample ID : 5-128-7 Time Analyzed : 0613

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.20	7.14	7.24	136015	124853	8.9
Aroclor 1016 #2	8.08	8.02	8.12	327390	303025	8.0
Aroclor 1016 #3	8.54	8.48	8.58	69275	62021	11.7
Aroclor 1016 #4	8.60	8.55	8.65	145505	130955	11.1
Aroclor 1016 #5	9.88	9.82	9.92	159255	145276	9.6
Aroclor 1260 #1	14.06	14.00	14.10	585573	518620	12.9
Aroclor 1260 #2	14.21	14.16	14.26	329325	298131	10.5
Aroclor 1260 #3	14.31	14.25	14.35	226243	211643	6.9
Aroclor 1260 #4	14.72	14.67	14.77	331848	293643	13.0
Aroclor 1260 #5	15.14	15.09	15.19	673888	601914	12.0

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column: RTX-PEST ID: 0.32(mm) Init. Calib Date(s): 08/28/01 08/28/01

Client Sample No.(PIBLK): PIBLKC1 Date Analyzed : 08/29/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0548

Client Sample No.: AR1660L3CE Date Analyzed : 08/29/01

Lab Sample ID : 5-128-7 Time Analyzed : 0613

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.95	6.89	6.99	140168	122050	14.8
Aroclor 1016 #2	7.71	7.65	7.75	376760	333978	12.8
Aroclor 1016 #3	9.06	9.01	9.11	241448	214453	12.6
Aroclor 1016 #4	9.48	9.42	9.52	169183	150734	12.2
Aroclor 1016 #5	11.81	11.76	11.86	121438	106907	13.6
Aroclor 1260 #1	13.60	13.54	13.64	612735	537331	14.0
Aroclor 1260 #2	13.79	13.74	13.84	330668	290760	13.7
Aroclor 1260 #3	13.88	13.83	13.93	220263	197446	11.6
Aroclor 1260 #4	14.25	14.19	14.29	298048	258345	15.4*
Aroclor 1260 #5	14.79	14.74	14.84	723648	636391	13.7

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column: RTX-PEST 2 ID: 0.32(mm) Init. Calib Date(s): 08/28/01 08/28/01

Client Sample No.(PIBLK): PIBLKCG Date Analyzed : 08/29/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1425

Client Sample No.: AR1660L3CG Date Analyzed : 08/29/01

Lab Sample ID : 5-128-7 Time Analyzed : 1450

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.19	7.14	7.24	126165	124853	1.1
Aroclor 1016 #2	8.07	8.02	8.12	310645	303025	2.5
Aroclor 1016 #3	8.53	8.48	8.58	64598	62021	4.2
Aroclor 1016 #4	8.60	8.55	8.65	137335	130955	4.9
Aroclor 1016 #5	9.87	9.82	9.92	149510	145276	2.9
Aroclor 1260 #1	14.05	14.00	14.10	549415	518620	5.9
Aroclor 1260 #2	14.21	14.16	14.26	306978	298131	3.0
Aroclor 1260 #3	14.30	14.25	14.35	204038	211643	3.6
Aroclor 1260 #4	14.72	14.67	14.77	309325	293643	5.3
Aroclor 1260 #5	15.14	15.09	15.19	625958	601914	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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column: RTX-PEST ID: 0.32(mm) Init. Calib Date(s): 08/28/01 08/28/01

Client Sample No.(PIBLK): PIBLKCG Date Analyzed : 08/29/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1425

Client Sample No.: AR1660L3CG Date Analyzed : 08/29/01

Lab Sample ID : 5-128-7 Time Analyzed : 1450

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.95	6.89	6.99	141238	122050	15.7*
Aroclor 1016 #2	7.70	7.65	7.75	368990	333978	10.5
Aroclor 1016 #3	9.06	9.01	9.11	235193	214453	9.7
Aroclor 1016 #4	9.47	9.42	9.52	163825	150734	8.7
Aroclor 1016 #5	11.81	11.76	11.86	116788	106907	9.2
Aroclor 1260 #1	13.59	13.54	13.64	597155	537331	11.1
Aroclor 1260 #2	13.79	13.74	13.84	317600	290760	9.2
Aroclor 1260 #3	13.88	13.83	13.93	209715	197446	6.2
Aroclor 1260 #4	14.24	14.19	14.29	289445	258345	12.0
Aroclor 1260 #5	14.79	14.74	14.84	697638	636391	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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column: RTX-PEST 2 ID: 0.32(mm) Init. Calib Date(s): 08/31/01 08/31/01

Client Sample No.(PIBLK): PIBLKCL Date Analyzed : 09/01/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0706

Client Sample No.: AR1660L3CR Date Analyzed : 09/01/01

Lab Sample ID : 5-210-7 Time Analyzed : 0731

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.15	7.10	7.20	153383	134118	14.4
Aroclor 1016 #2	8.04	7.99	8.09	356343	316527	12.6
Aroclor 1016 #3	8.50	8.45	8.55	74905	62925	19.0*
Aroclor 1016 #4	8.57	8.52	8.62	150980	131290	15.0
Aroclor 1016 #5	9.84	9.79	9.89	150625	151588	0.6
Aroclor 1260 #1	14.02	13.97	14.07	553565	599630	7.7
Aroclor 1260 #2	14.18	14.13	14.23	296193	329819	10.2
Aroclor 1260 #3	14.28	14.23	14.33	190273	219172	13.2
Aroclor 1260 #4	14.70	14.65	14.75	308403	337406	8.6
Aroclor 1260 #5	15.11	15.07	15.17	615983	675488	8.8

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column: RTX-PEST ID: 0.32(mm) Init. Calib Date(s): 08/31/01 08/31/01

Client Sample No.(PIBLK): PIBLKCL Date Analyzed : 09/01/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0706

Client Sample No.: AR1660L3CR Date Analyzed : 09/01/01

Lab Sample ID : 5-210-7 Time Analyzed : 0731

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.91	6.86	6.96	148695	125307	18.7*
Aroclor 1016 #2	7.67	7.62	7.72	396998	359664	10.4
Aroclor 1016 #3	9.03	8.98	9.08	271008	248435	9.1
Aroclor 1016 #4	9.44	9.39	9.49	185100	170320	8.7
Aroclor 1016 #5	11.78	11.73	11.83	133950	120752	10.9
Aroclor 1260 #1	13.56	13.51	13.61	695135	627726	10.7
Aroclor 1260 #2	13.76	13.71	13.81	365358	339199	7.7
Aroclor 1260 #3	13.85	13.80	13.90	233193	221645	5.2
Aroclor 1260 #4	14.22	14.17	14.27	339533	309852	9.6
Aroclor 1260 #5	14.76	14.71	14.81	820608	758879	8.1

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column: RTX-PEST 2 ID: 0.32(mm) Init. Calib Date(s): 09/06/01 09/06/01

Client Sample No.(PIBLK): PIBLKCP Date Analyzed : 09/06/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0915

Client Sample No.: AR1660L3CY Date Analyzed : 09/06/01

Lab Sample ID : 5-210-7 Time Analyzed : 0942

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.03	7.97	8.07	380710	340287	11.9
Aroclor 1016 #2	8.56	8.50	8.60	193905	170496	13.7
Aroclor 1016 #3	9.59	9.53	9.63	205415	201944	1.7
Aroclor 1016 #4	9.84	9.78	9.88	181550	167590	8.3
Aroclor 1016 #5	10.61	10.54	10.64	232950	243732	4.4
Aroclor 1260 #1	13.37	13.30	13.40	512485	470936	8.8
Aroclor 1260 #2	13.67	13.61	13.71	463028	424650	9.0
Aroclor 1260 #3	14.17	14.12	14.22	368195	332486	10.7
Aroclor 1260 #4	14.69	14.63	14.73	314000	300061	4.7
Aroclor 1260 #5	15.12	15.07	15.17	805100	686256	17.3*

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column: RTX-PEST ID: 0.32(mm) Init. Calib Date(s): 09/06/01 09/06/01

Client Sample No.(PIBLK): PIBLKCP Date Analyzed : 09/06/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0915

Client Sample No.: AR1660L3CY Date Analyzed : 09/06/01

Lab Sample ID : 5-210-7 Time Analyzed : 0942

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.66	7.59	7.69	378650	341955	10.7
Aroclor 1016 #2	9.02	8.96	9.06	292083	247785	17.9*
Aroclor 1016 #3	9.43	9.37	9.47	194760	172321	13.0
Aroclor 1016 #4	9.87	9.81	9.91	331863	291777	13.7
Aroclor 1016 #5	10.66	10.60	10.70	259393	227736	13.9
Aroclor 1260 #1	12.42	12.36	12.46	488838	432135	13.1
Aroclor 1260 #2	13.58	13.52	13.62	592118	533286	11.0
Aroclor 1260 #3	14.21	14.15	14.25	307610	269892	14.0
Aroclor 1260 #4	14.76	14.71	14.81	819135	732839	11.8
Aroclor 1260 #5	15.36	15.30	15.40	378058	328370	15.1*

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column: RTX-PEST 2 ID: 0.32(mm) Init. Calib Date(s): 09/06/01 09/06/01

Client Sample No.(PIBLK): PIBLKCQ Date Analyzed : 09/06/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1432

Client Sample No.: AR1660L3CA Date Analyzed : 09/06/01

Lab Sample ID : 5-210-7 Time Analyzed : 1459

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.03	7.97	8.07	451185	340287	32.6*
Aroclor 1016 #2	8.55	8.50	8.60	231038	170496	35.5*
Aroclor 1016 #3	9.58	9.53	9.63	248360	201944	23.0*
Aroclor 1016 #4	9.83	9.78	9.88	217838	167590	30.0*
Aroclor 1016 #5	10.60	10.54	10.64	281285	243732	15.4*
Aroclor 1260 #1	13.36	13.30	13.40	627830	470936	33.3*
Aroclor 1260 #2	13.66	13.61	13.71	568953	424650	34.0*
Aroclor 1260 #3	14.17	14.12	14.22	450208	332486	35.4*
Aroclor 1260 #4	14.68	14.63	14.73	391490	300061	30.5*
Aroclor 1260 #5	15.12	15.07	15.17	847003	686256	23.4*

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column: RTX-PEST ID: 0.32(mm) Init. Calib Date(s): 09/06/01 09/06/01

Client Sample No.(PIBLK): PIBLKCQ Date Analyzed : 09/06/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1432

Client Sample No.: AR1660L3CA Date Analyzed : 09/06/01

Lab Sample ID : 5-210-7 Time Analyzed : 1459

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.65	7.59	7.69	456970	341955	33.6*
Aroclor 1016 #2	9.02	8.96	9.06	349203	247785	40.9*
Aroclor 1016 #3	9.43	9.37	9.47	231303	172321	34.2*
Aroclor 1016 #4	9.86	9.81	9.91	399778	291777	37.0*
Aroclor 1016 #5	10.65	10.60	10.70	314500	227736	38.1*
Aroclor 1260 #1	12.41	12.36	12.46	588515	432135	36.2*
Aroclor 1260 #2	13.57	13.52	13.62	732890	533286	37.4*
Aroclor 1260 #3	14.20	14.15	14.25	377595	269892	39.9*
Aroclor 1260 #4	14.76	14.71	14.81	998138	732839	36.2*
Aroclor 1260 #5	15.35	15.30	15.40	448140	328370	36.5*

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column: RTX-PEST 2 ID: 0.32(mm) Init. Calib Date(s): 09/06/01 09/06/01

Client Sample No.(PIBLK): PIBLKCQ Date Analyzed : 09/06/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1432

Client Sample No.: AR1660L3CB Date Analyzed : 09/06/01

Lab Sample ID : 5-210-7 Time Analyzed : 1527

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.02	7.97	8.07	402515	340287	18.3*
Aroclor 1016 #2	8.55	8.50	8.60	194540	170496	14.1
Aroclor 1016 #3	9.58	9.53	9.63	202180	201944	0.1
Aroclor 1016 #4	9.83	9.78	9.88	184098	167590	9.9
Aroclor 1016 #5	10.60	10.54	10.64	228618	243732	6.2
Aroclor 1260 #1	13.36	13.30	13.40	517860	470936	10.0
Aroclor 1260 #2	13.66	13.61	13.71	479573	424650	12.9
Aroclor 1260 #3	14.17	14.12	14.22	394850	332486	18.8*
Aroclor 1260 #4	14.68	14.63	14.73	342325	300061	14.1
Aroclor 1260 #5	15.12	15.07	15.17	737963	686256	7.5

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

GC Column: RTX-PEST ID: 0.32(mm) Init. Calib Date(s): 09/06/01 09/06/01

Client Sample No.(PIBLK): PIBLKCQ Date Analyzed : 09/06/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1432

Client Sample No.: AR1660L3CB Date Analyzed : 09/06/01

Lab Sample ID : 5-210-7 Time Analyzed : 1527

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.65	7.59	7.69	405345	341955	18.5*
Aroclor 1016 #2	9.02	8.96	9.06	300825	247785	21.4*
Aroclor 1016 #3	9.43	9.37	9.47	200393	172321	16.3*
Aroclor 1016 #4	9.86	9.81	9.91	321253	291777	10.1
Aroclor 1016 #5	10.66	10.60	10.70	187608	227736	17.6*
Aroclor 1260 #1	12.41	12.36	12.46	526410	432135	21.8*
Aroclor 1260 #2	13.58	13.52	13.62	639143	533286	19.8*
Aroclor 1260 #3	14.20	14.15	14.25	333778	269892	23.7*
Aroclor 1260 #4	14.76	14.71	14.81	881940	732839	20.3*
Aroclor 1260 #5	15.35	15.30	15.40	402670	328370	22.6*

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.: 29546 SAS No.: SDG No.: E00Y1

GC Column: RTX-PEST 2 ID: 0.32(mm) Init. Calib. Date(s): 08/20/01

Instrument ID: HP_14A

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	RESCAC	5-171-7	08/20/01	1758	6.91	18.50
02	AR1221L3AC	5-420-6	08/20/01	1822	6.91	18.51
03	AR1232L3AC	5-422-6	08/20/01	1846	6.90	18.50
04	AR1242L1AC	5-11-7	08/20/01	1910	6.91	18.51
05	AR1242L2AC	5-10-7	08/20/01	1934	6.91	18.48
06	AR1242L3AC	5-9-7	08/20/01	1958	6.91	18.50
07	AR1242L4AC	5-8-7	08/20/01	2023	6.91	18.50
08	AR1242L5AC	5-7-7	08/20/01	2047	6.91	18.50
09	AR1248L3AC	5-424-6	08/20/01	2111	6.91	18.50
10	AR1254L1AC	5-6-7	08/20/01	2135	6.91	18.51
11	AR1254L2AC	5-5-7	08/20/01	2159	6.91	18.50
12	AR1254L3AC	5-4-7	08/20/01	2224	6.91	18.50
13	AR1254L4AC	5-3-7	08/20/01	2248	6.91	18.50
14	AR1254L5AC	5-2-7	08/20/01	2312	6.91	18.50
15	AR1660L1AC	5-130-7	08/20/01	2336	6.90	18.51
16	AR1660L2AC	5-129-7	08/21/01	0001	6.91	18.50
17	AR1660L3AS	5-128-7	08/21/01	0025	6.91	18.50
18	AR1660L4AC	5-171-7	08/21/01	0049	6.90	18.50
19	AR1660L5AC	5-126-7	08/21/01	0113	6.90	18.49
20	PIBLKAJ	5-131-7	08/21/01	0137	6.90	18.51
21	PIBLKAL	5-131-7	08/22/01	1021	6.91	18.50
22	AR1660L3AZ	5-128-7	08/22/01	1045	6.91	18.49
23	PBLKSE	BL0802SE	08/22/01	1242	6.92	18.49
24	ELCS1	LC0802SE	08/22/01	1419	6.91	18.48
25	ELCS2	LD0802SE	08/22/01	1443	6.91	18.48
26	E00Y1	47166.01	08/22/01	1507	6.91	18.48
27	E00Y2	47166.02	08/22/01	1531	6.91	18.48
28	E00Y3	47166.03	08/22/01	1555	6.91	18.48
29	E00Y4	47166.04	08/22/01	1620	6.90	18.48
30	E00Y5	47166.05	08/22/01	1644	6.91	18.48
31	E00Y6	47166.06	08/22/01	1708	6.91	18.48
32	E00Y7	47166.07	08/22/01	1732	6.91	18.48
33	E00Y8	47166.08	08/22/01	1756	6.91	18.48
34	E00Y9	47166.09	08/22/01	1821	6.91	18.48
35	PIBLKAM	5-131-7	08/22/01	1958	6.91	18.50

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.: 29546 SAS No.: SDG No.: E00Y1

GC Column: RTX-PEST 2 ID: 0.32(mm) Init. Calib. Date(s): 08/20/01

Instrument ID: HP_14A

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	AR1660L3AB	5-128-7	08/22/01	2022	6.91	18.49
02	E00Z0	47166.10	08/22/01	2110	6.91	18.49
03	E00Z1	47166.11	08/22/01	2134	6.91	18.48
04	E00Z1MS	47166.12MS	08/22/01	2159	6.91	18.48
05	E00Z1MSD	47166.13MSD	08/22/01	2223	6.91	18.48
06	E00Z2	47166.14	08/22/01	2247	6.91	18.48
07	E00Z3	47166.15	08/22/01	2311	6.91	18.48
08	E00Z4	47166.16	08/22/01	2335	6.91	18.49
09	E00Z5	47166.17	08/23/01	0000	6.91	18.49
10	E00Z6	47166.18	08/23/01	0024	6.91	18.48
11	E00Z8	47166.20	08/23/01	0112	6.91	18.48
12	E00Z9	47166.21	08/23/01	0137	6.91	18.49
13	E0100	47166.22	08/23/01	0201	6.91	18.49
14	PIBLKAN	5-131-7	08/23/01	0337	6.91	18.50
15	AR1660L3AD	5-128-7	08/23/01	0402	6.91	18.50
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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.: 29546 SAS No.: SDG No.: E00Y1

GC Column: RTX-PEST ID: 0.32(mm) Init. Calib. Date(s): 08/20/01

Instrument ID: HP_14B

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	RESCAC	5-171-7	08/20/01	1758	6.86	19.28
02	AR1221L3AC	5-420-6	08/20/01	1822	6.87	19.28
03	AR1232L3AC	5-422-6	08/20/01	1846	6.86	19.28
04	AR1242L1AC	5-11-7	08/20/01	1910	6.87	19.28
05	AR1242L2AC	5-10-7	08/20/01	1934	6.87	19.26
06	AR1242L3AC	5-9-7	08/20/01	1958	6.87	19.28
07	AR1242L4AC	5-8-7	08/20/01	2023	6.87	19.28
08	AR1242L5AC	5-7-7	08/20/01	2047	6.87	19.28
09	AR1248L3AC	5-424-6	08/20/01	2111	6.87	19.28
10	AR1254L1AC	5-6-7	08/20/01	2135	6.87	19.28
11	AR1254L2AC	5-5-7	08/20/01	2159	6.87	19.28
12	AR1254L3AC	5-4-7	08/20/01	2224	6.87	19.28
13	AR1254L4AC	5-3-7	08/20/01	2248	6.87	19.28
14	AR1254L5AC	5-2-7	08/20/01	2312	6.87	19.27
15	AR1660L1AC	5-130-7	08/20/01	2336	6.86	19.28
16	AR1660L2AC	5-129-7	08/21/01	0001	6.87	19.28
17	AR1660L3AS	5-128-7	08/21/01	0025	6.87	19.28
18	AR1660L4AC	5-171-7	08/21/01	0049	6.86	19.28
19	AR1660L5AC	5-126-7	08/21/01	0113	6.86	19.27
20	PIBLKAJ	5-131-7	08/21/01	0137	6.86	19.28
21	PIBLKAL	5-131-7	08/22/01	1021	6.87	19.28
22	AR1660L3AZ	5-128-7	08/22/01	1045	6.87	19.27
23	PBLKSE	BL0802SE	08/22/01	1242	6.87	19.27
24	ELCS1	LC0802SE	08/22/01	1419	6.87	19.26
25	ELCS2	LD0802SE	08/22/01	1443	6.87	19.26
26	E00Y1	47166.01	08/22/01	1507	6.87	19.27
27	E00Y2	47166.02	08/22/01	1531	6.87	19.27
28	E00Y3	47166.03	08/22/01	1555	6.87	19.27
29	E00Y4	47166.04	08/22/01	1620	6.86	19.27
30	E00Y5	47166.05	08/22/01	1644	6.87	19.27
31	E00Y6	47166.06	08/22/01	1708	6.87	19.27
32	E00Y7	47166.07	08/22/01	1732	6.87	19.27
33	E00Y8	47166.08	08/22/01	1756	6.87	19.26
34	E00Y9	47166.09	08/22/01	1821	6.87	19.27
35	PIBLKAM	5-131-7	08/22/01	1958	6.87	19.28

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.: 29546 SAS No.: SDG No.: E00Y1

GC Column: RTX-PEST ID: 0.32(mm) Init. Calib. Date(s): 08/20/01

Instrument ID: HP_14B

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	AR1660L3AB	5-128-7	08/22/01	2022	6.87	19.28
02	E00Z0	47166.10	08/22/01	2110	6.87	19.27
03	E00Z1	47166.11	08/22/01	2134	6.87	19.28
04	E00Z1MS	47166.12MS	08/22/01	2159	6.87	19.28
05	E00Z1MSD	47166.13MSD	08/22/01	2223	6.88	19.28
06	E00Z2	47166.14	08/22/01	2247	6.87	19.27
07	E00Z3	47166.15	08/22/01	2311	6.87	19.27
08	E00Z4	47166.16	08/22/01	2335	6.87	19.28
09	E00Z5	47166.17	08/23/01	0000	6.88	19.27
10	E00Z6	47166.18	08/23/01	0024	6.87	19.27
11	E00Z8	47166.20	08/23/01	0112	6.87	19.27
12	E00Z9	47166.21	08/23/01	0137	6.87	19.28
13	E0100	47166.22	08/23/01	0201	6.87	19.28
14	PIBLKAN	5-131-7	08/23/01	0337	6.88	19.28
15	AR1660L3AD	5-128-7	08/23/01	0402	6.88	19.28
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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.: 29546 SAS No.: SDG No.: E00Y1

GC Column: DB-17MS ID: 0.32(mm) Init. Calib. Date(s): 09/04/01

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	RESCBG	5-171-7	09/04/01	1342	7.36	18.03
02	AR1221L3BG	5-420-6	09/04/01	1405	7.35	18.04
03	AR1232L3BG	5-422-6	09/04/01	1429	7.35	18.04
04	AR1242L1BG	5-11-7	09/04/01	1452	7.36	18.04
05	AR1242L2BG	5-10-7	09/04/01	1515	7.36	18.04
06	AR1242L3BG	5-9-7	09/04/01	1538	7.36	18.04
07	AR1242L4BG	5-8-7	09/04/01	1601	7.36	18.04
08	AR1242L5BG	5-7-7	09/04/01	1624	7.36	18.04
09	AR1248L3BG	5-424-6	09/04/01	1648	7.36	18.04
10	AR1254L1BG	5-6-7	09/04/01	1711	7.36	18.04
11	AR1254L2BG	5-5-7	09/04/01	1734	7.36	18.04
12	AR1254L3BG	5-4-7	09/04/01	1757	7.36	18.04
13	AR1254L4BG	5-3-7	09/04/01	1820	7.36	18.03
14	AR1254L5BG	5-2-7	09/04/01	1843	7.36	18.03
15	AR1660L1BG	5-212-7	09/04/01	1907	7.35	18.03
16	AR1660L2BG	5-211-7	09/04/01	1930	7.35	18.03
17	AR1660L3BG	5-210-7	09/04/01	1953	7.35	18.03
18	AR1660L4BG	5-209-7	09/04/01	2016	7.35	18.03
19	AR1660L5BG	5-208-7	09/04/01	2039	7.35	18.03
20	PIBLKBW	5-131-7	09/04/01	2102	7.35	18.03
21	PIBLKBF	5-131-7	09/07/01	1006	7.34	18.02
22	AR1660L3BY	5-210-7	09/07/01	1029	7.35	18.03
23	PBLKS2	BL0802SE	09/07/01	1445	7.36	18.03
24	E00Z2DL	47166.14DL	09/07/01	1508	7.35	18.02
25	E00Z3DL	47166.15DL	09/07/01	1535	7.35	18.03
26	E00Z4DL	47166.16DL	09/07/01	1558	7.35	18.03
27	PIBLKBG	5-131-7	09/07/01	1731	7.36	18.04
28	AR1660L3BA	5-210-7	09/07/01	1754	7.35	18.04
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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.: 29546 SAS No.: SDG No.: E00Y1

GC Column: DB-XLB ID: 0.32(mm) Init. Calib. Date(s): 09/04/01

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	RESCBG	5-171-7	09/04/01	1342	7.12	18.42
02	AR1221L3BG	5-420-6	09/04/01	1405	7.12	18.42
03	AR1232L3BG	5-422-6	09/04/01	1429	7.12	18.42
04	AR1242L1BG	5-11-7	09/04/01	1452	7.12	18.42
05	AR1242L2BG	5-10-7	09/04/01	1515	7.12	18.42
06	AR1242L3BG	5-9-7	09/04/01	1538	7.12	18.42
07	AR1242L4BG	5-8-7	09/04/01	1601	7.12	18.42
08	AR1242L5BG	5-7-7	09/04/01	1624	7.12	18.42
09	AR1248L3BG	5-424-6	09/04/01	1648	7.12	18.42
10	AR1254L1BG	5-6-7	09/04/01	1711	7.12	18.42
11	AR1254L2BG	5-5-7	09/04/01	1734	7.12	18.42
12	AR1254L3BG	5-4-7	09/04/01	1757	7.12	18.42
13	AR1254L4BG	5-3-7	09/04/01	1820	7.12	18.41
14	AR1254L5BG	5-2-7	09/04/01	1843	7.12	18.41
15	AR1660L1BG	5-212-7	09/04/01	1907	7.12	18.42
16	AR1660L2BG	5-211-7	09/04/01	1930	7.12	18.41
17	AR1660L3BG	5-210-7	09/04/01	1953	7.12	18.41
18	AR1660L4BG	5-209-7	09/04/01	2016	7.11	18.41
19	AR1660L5BG	5-208-7	09/04/01	2039	7.11	18.41
20	PIBLKBW	5-131-7	09/04/01	2102	7.11	18.41
21	PIBLKBF	5-131-7	09/07/01	1006	7.11	18.40
22	AR1660L3BY	5-210-7	09/07/01	1029	7.11	18.40
23	PBLKS2	BL0802SE	09/07/01	1445	7.12	18.41
24	E00Z2DL	47166.14DL	09/07/01	1508	7.11	18.40
25	E00Z3DL	47166.15DL	09/07/01	1535	7.11	18.41
26	E00Z4DL	47166.16DL	09/07/01	1558	7.11	18.41
27	PIBLKBG	5-131-7	09/07/01	1731	7.12	18.41
28	AR1660L3BA	5-210-7	09/07/01	1754	7.12	18.41
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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.: 29546 SAS No.: SDG No.: E00Y1

GC Column: RTX-PEST 2 ID: 0.32(mm) Init. Calib. Date(s): 08/28/01

Instrument ID: HP_16A

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	RESCCF	5-171-7	08/28/01	1349	6.07	17.71
02	AR1221L3CF	5-420-6	08/28/01	1413	6.07	17.71
03	AR1232L3CF	5-422-6	08/28/01	1438	6.07	17.71
04	AR1242L1CF	5-11-7	08/28/01	1503	6.07	17.71
05	AR1242L2CF	5-10-7	08/28/01	1528	6.07	17.70
06	AR1242L3CF	5-9-7	08/28/01	1552	6.07	17.70
07	AR1242L4CF	5-8-7	08/28/01	1617	6.07	17.70
08	AR1242L5CF	5-7-7	08/28/01	1642	6.07	17.70
09	AR1248L3CF	5-424-6	08/28/01	1706	6.07	17.70
10	AR1254L1CF	5-6-7	08/28/01	1731	6.07	17.71
11	AR1254L2CF	5-5-7	08/28/01	1756	6.07	17.70
12	AR1254L3CF	5-4-7	08/28/01	1820	6.07	17.70
13	AR1254L4CF	5-3-7	08/28/01	1845	6.06	17.70
14	AR1254L5CF	5-2-7	08/28/01	1909	6.06	17.70
15	AR1660L1CF	5-130-7	08/28/01	1934	6.07	17.70
16	AR1660L2CF	5-129-7	08/28/01	1958	6.06	17.70
17	AR1660L3CD	5-128-7	08/28/01	2023	6.06	17.70
18	AR1660L4CF	5-172-7	08/28/01	2048	6.06	17.70
19	AR1660L5CF	5-126-7	08/28/01	2112	6.06	17.70
20	PIBLKCF	5-131-7	08/28/01	2137	6.06	17.70
21	PIBLKC1	5-131-7	08/29/01	0548	6.07	17.70
22	AR1660L3CE	5-128-7	08/29/01	0613	6.07	17.70
23	PBLKS1	BL0802SE	08/29/01	0929	6.07	17.70
24	E00Y3DL	47166.03DL	08/29/01	0954	6.06	17.70
25	E00Y4DL	47166.04DL	08/29/01	1019	6.06	17.70
26	E00Y5DL	47166.05DL	08/29/01	1043	6.07	17.70
27	E00Z1DL	47166.11DL	08/29/01	1133	6.06	17.70
28	E0100DL	47166.22DL	08/29/01	1247	6.07	17.70
29	PIBLKCG	5-131-7	08/29/01	1425	6.07	17.70
30	AR1660L3CG	5-128-7	08/29/01	1450	6.06	17.70
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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.: 29546 SAS No.: SDG No.: E00Y1

GC Column: RTX-PEST ID: 0.32(mm) Init. Calib. Date(s): 08/28/01

Instrument ID: HP_16B

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	RESCCF	5-171-7	08/28/01	1349	6.07	17.05
02	AR1221L3CF	5-420-6	08/28/01	1413	6.07	17.05
03	AR1232L3CF	5-422-6	08/28/01	1438	6.08	17.05
04	AR1242L1CF	5-11-7	08/28/01	1503	6.08	17.05
05	AR1242L2CF	5-10-7	08/28/01	1528	6.08	17.05
06	AR1242L3CF	5-9-7	08/28/01	1552	6.08	17.05
07	AR1242L4CF	5-8-7	08/28/01	1617	6.08	17.05
08	AR1242L5CF	5-7-7	08/28/01	1642	6.07	17.05
09	AR1248L3CF	5-424-6	08/28/01	1706	6.08	17.05
10	AR1254L1CF	5-6-7	08/28/01	1731	6.08	17.05
11	AR1254L2CF	5-5-7	08/28/01	1756	6.08	17.05
12	AR1254L3CF	5-4-7	08/28/01	1820	6.08	17.05
13	AR1254L4CF	5-3-7	08/28/01	1845	6.07	17.05
14	AR1254L5CF	5-2-7	08/28/01	1909	6.07	17.04
15	AR1660L1CF	5-130-7	08/28/01	1934	6.07	17.05
16	AR1660L2CF	5-129-7	08/28/01	1958	6.07	17.05
17	AR1660L3CD	5-128-7	08/28/01	2023	6.07	17.05
18	AR1660L4CF	5-172-7	08/28/01	2048	6.07	17.04
19	AR1660L5CF	5-126-7	08/28/01	2112	6.07	17.04
20	PIBLKCF	5-131-7	08/28/01	2137	6.07	17.05
21	PIBLKC1	5-131-7	08/29/01	0548	6.08	17.05
22	AR1660L3CE	5-128-7	08/29/01	0613	6.08	17.05
23	PBLKS1	BL0802SE	08/29/01	0929	6.08	17.05
24	E00Y3DL	47166.03DL	08/29/01	0954	6.07	17.04
25	E00Y4DL	47166.04DL	08/29/01	1019	6.07	17.04
26	E00Y5DL	47166.05DL	08/29/01	1043	6.07	17.04
27	E00Z1DL	47166.11DL	08/29/01	1133	6.07	17.04
28	E0100DL	47166.22DL	08/29/01	1247	6.07	17.04
29	PIBLKCG	5-131-7	08/29/01	1425	6.07	17.04
30	AR1660L3CG	5-128-7	08/29/01	1450	6.07	17.04
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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.: 29546 SAS No.: SDG No.: E00Y1

GC Column: RTX-PEST 2 ID: 0.32(mm) Init. Calib. Date(s): 08/31/01

Instrument ID: HP_16A

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	RESCCG	5-171-7	08/31/01	1733	6.02	17.67
02	AR1221L3CG	5-420-6	08/31/01	1758	6.02	17.67
03	AR1232L3CG	5-422-6	08/31/01	1822	6.02	17.67
04	AR1242L1CG	5-11-7	08/31/01	1847	6.02	17.67
05	AR1242L2CG	5-10-7	08/31/01	1911	6.02	17.67
06	AR1242L3CG	5-9-7	08/31/01	1936	6.02	17.67
07	AR1242L4CG	5-8-7	08/31/01	2000	6.02	17.67
08	AR1242L5CG	5-7-7	08/31/01	2025	6.02	17.66
09	AR1248L3CG	5-424-6	08/31/01	2050	6.02	17.66
10	AR1254L1CG	5-6-7	08/31/01	2114	6.02	17.66
11	AR1254L2CG	5-5-7	08/31/01	2139	6.02	17.66
12	AR1254L3CG	5-4-7	08/31/01	2204	6.02	17.66
13	AR1254L4CG	5-3-7	08/31/01	2228	6.02	17.66
14	AR1254L5CG	5-2-7	08/31/01	2253	6.02	17.66
15	AR1660L1CG	5-212-7	08/31/01	2318	6.02	17.66
16	AR1660L2CG	5-211-7	08/31/01	2342	6.02	17.66
17	AR1660L3CQ	5-210-7	09/01/01	0007	6.02	17.66
18	AR1660L4CG	5-209-7	09/01/01	0032	6.02	17.66
19	AR1660L5CG	5-208-7	09/01/01	0056	6.02	17.66
20	PIBLKCK	5-131-7	09/01/01	0121	6.02	17.67
21	PBLKS3	BB0827SE	09/01/01	0210	6.02	17.66
22	ELCS3	LC0827SE	09/01/01	0324	6.02	17.66
23	ELCS4	LD0827SE	09/01/01	0349	6.02	17.66
24	E00Z9RE	47166.21RE	09/01/01	0503	6.02	17.66
25	E00Z9REDL	47166.21REDL	09/01/01	0528	6.02	17.66
26	PIBLKCL	5-131-7	09/01/01	0706	6.02	17.66
27	AR1660L3CR	5-210-7	09/01/01	0731	6.02	17.66
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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.: 29546 SAS No.: SDG No.: E00Y1

GC Column: RTX-PEST ID: 0.32(mm) Init. Calib. Date(s): 08/31/01

Instrument ID: HP_16B

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	RESCCG	5-171-7	08/31/01	1733	6.03	17.02
02	AR1221L3CG	5-420-6	08/31/01	1758	6.03	17.02
03	AR1232L3CG	5-422-6	08/31/01	1822	6.03	17.02
04	AR1242L1CG	5-11-7	08/31/01	1847	6.03	17.02
05	AR1242L2CG	5-10-7	08/31/01	1911	6.03	17.02
06	AR1242L3CG	5-9-7	08/31/01	1936	6.03	17.02
07	AR1242L4CG	5-8-7	08/31/01	2000	6.03	17.02
08	AR1242L5CG	5-7-7	08/31/01	2025	6.03	17.02
09	AR1248L3CG	5-424-6	08/31/01	2050	6.03	17.02
10	AR1254L1CG	5-6-7	08/31/01	2114	6.03	17.02
11	AR1254L2CG	5-5-7	08/31/01	2139	6.03	17.02
12	AR1254L3CG	5-4-7	08/31/01	2204	6.03	17.02
13	AR1254L4CG	5-3-7	08/31/01	2228	6.03	17.02
14	AR1254L5CG	5-2-7	08/31/01	2253	6.03	17.02
15	AR1660L1CG	5-212-7	08/31/01	2318	6.03	17.02
16	AR1660L2CG	5-211-7	08/31/01	2342	6.03	17.02
17	AR1660L3CQ	5-210-7	09/01/01	0007	6.03	17.02
18	AR1660L4CG	5-209-7	09/01/01	0032	6.03	17.02
19	AR1660L5CG	5-208-7	09/01/01	0056	6.02	17.02
20	PIBLKCK	5-131-7	09/01/01	0121	6.03	17.02
21	PBLKS3	BB0827SE	09/01/01	0210	6.03	17.02
22	ELCS3	LC0827SE	09/01/01	0324	6.03	17.02
23	ELCS4	LD0827SE	09/01/01	0349	6.03	17.02
24	E00Z9RE	47166.21RE	09/01/01	0503	6.03	17.01
25	E00Z9REDL	47166.21REDL	09/01/01	0528	6.02	17.01
26	PIBLKCL	5-131-7	09/01/01	0706	6.02	17.02
27	AR1660L3CR	5-210-7	09/01/01	0731	6.03	17.02
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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.: 29546 SAS No.: SDG No.: E00Y1

GC Column: RTX-PEST 2 ID: 0.32(mm) Init. Calib. Date(s): 09/05/01 09/06/01

Instrument ID: HP_16A

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	RESCCH	5-171-7	09/05/01	1845	6.00	17.64
02	AR1221L3CH	5-420-6	09/05/01	1911	5.99	17.64
03	AR1232L3CH	5-422-6	09/05/01	1938	6.00	17.64
04	AR1242L1CH	5-11-7	09/05/01	2004	6.00	17.64
05	AR1242L2CH	5-10-7	09/05/01	2031	6.00	17.64
06	AR1242L3CH	5-9-7	09/05/01	2057	6.00	17.64
07	AR1242L4CH	5-8-7	09/05/01	2123	5.99	17.64
08	AR1242L5CH	5-7-7	09/05/01	2150	5.99	17.64
09	AR1248L3CH	5-424-6	09/05/01	2216	6.00	17.64
10	AR1254L1CH	5-6-7	09/05/01	2242	6.00	17.64
11	AR1254L2CH	5-5-7	09/05/01	2309	6.00	17.64
12	AR1254L3CH	5-4-7	09/05/01	2335	6.00	17.64
13	AR1254L4CH	5-3-7	09/06/01	0001	6.00	17.64
14	AR1254L5CH	5-2-7	09/06/01	0028	5.99	17.64
15	AR1660L1CH	5-212-7	09/06/01	0054	6.00	17.64
16	AR1660L2CH	5-211-7	09/06/01	0120	6.00	17.64
17	AR1660L3CX	5-210-7	09/06/01	0147	6.00	17.64
18	AR1660L4CH	5-209-7	09/06/01	0213	6.00	17.64
19	AR1660L5CH	5-208-7	09/06/01	0240	6.00	17.64
20	PIBLKCO	5-131-7	09/06/01	0306	6.00	17.64
21	PIBLKCP	5-131-7	09/06/01	0915	6.00	17.65
22	AR1660L3CY	5-210-7	09/06/01	0942	6.00	17.64
23	E00Z7	47166.19	09/06/01	1154	5.99	17.63
24	PIBLKCQ	5-131-7	09/06/01	1432	6.00	17.64
25	AR1660L3CA	5-210-7	09/06/01	1459	6.00	17.64
26	AR1660L3CB	5-210-7	09/06/01	1527	5.99	17.64
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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.: 29546 SAS No.: SDG No.: E00Y1

GC Column: RTX-PEST ID: 0.32(mm) Init. Calib. Date(s): 09/05/01 09/06/01

Instrument ID: HP_16B

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	RESCCH	5-171-7	09/05/01	1845	5.99	16.99
02	AR1221L3CH	5-420-6	09/05/01	1911	5.99	16.99
03	AR1232L3CH	5-422-6	09/05/01	1938	6.00	16.99
04	AR1242L1CH	5-11-7	09/05/01	2004	6.00	17.00
05	AR1242L2CH	5-10-7	09/05/01	2031	6.00	16.99
06	AR1242L3CH	5-9-7	09/05/01	2057	6.00	16.99
07	AR1242L4CH	5-8-7	09/05/01	2123	5.99	16.99
08	AR1242L5CH	5-7-7	09/05/01	2150	5.99	16.99
09	AR1248L3CH	5-424-6	09/05/01	2216	6.00	16.99
10	AR1254L1CH	5-6-7	09/05/01	2242	6.00	17.00
11	AR1254L2CH	5-5-7	09/05/01	2309	6.00	16.99
12	AR1254L3CH	5-4-7	09/05/01	2335	6.00	16.99
13	AR1254L4CH	5-3-7	09/06/01	0001	6.00	16.99
14	AR1254L5CH	5-2-7	09/06/01	0028	5.99	16.99
15	AR1660L1CH	5-212-7	09/06/01	0054	6.00	17.00
16	AR1660L2CH	5-211-7	09/06/01	0120	6.00	17.00
17	AR1660L3CX	5-210-7	09/06/01	0147	6.00	17.00
18	AR1660L4CH	5-209-7	09/06/01	0213	6.00	17.00
19	AR1660L5CH	5-208-7	09/06/01	0240	6.00	16.99
20	PIBLKCO	5-131-7	09/06/01	0306	6.00	17.00
21	PIBLKCP	5-131-7	09/06/01	0915	6.00	17.00
22	AR1660L3CY	5-210-7	09/06/01	0942	6.01	17.00
23	E00Z7	47166.19	09/06/01	1154	6.00	16.99
24	PIBLKCQ	5-131-7	09/06/01	1432	6.00	16.99
25	AR1660L3CA	5-210-7	09/06/01	1459	6.00	16.99
26	AR1660L3CB	5-210-7	09/06/01	1527	6.00	16.99
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TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

9D

MULTI-COMPONENT CALIBRATION STANDARD CONCENTRATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Code: SWOK Injection volume = 0.0uL Amount Units = ng/mL

COMPOUND	SPIKE AMOUNTS Level 1	Level 2	Level 3	Level 4	Level 5
DCB	7.50	15.0	30.0	60.0	120
Aroclor-1016	100	200	400	800	1600
Aroclor-1221	100	200	400	800	1600
Aroclor-1232	100	200	400	800	1600
Aroclor-1242	100	200	400	800	1600
Aroclor-1248	100	200	400	800	1600
Aroclor-1254	100	200	400	800	1600
Aroclor-1260	100	200	400	800	1600

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: LC0802SE Date(s) Analyzed: 08/22/01 08/22/01

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	11.85	11.80	11.90	119		
Aroclor-1254	2	12.42	12.36	12.46	129		
	3	13.02	12.97	13.07	138		
COLUMN 1	4	13.64	13.59	13.69	130		
	5	14.19	14.14	14.24	133	130	
	1	12.35	12.29	12.39	111		
	2	12.75	12.70	12.80	128		
	3	13.48	13.42	13.52	124		
COLUMN 2	4	14.08	14.03	14.13	142		
	5	14.46	14.41	14.51	117	120	8.3
	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.

ELCS2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: LD0802SE Date(s) Analyzed: 08/22/01 08/22/01

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	11.85	11.80	11.90	125		
Aroclor-1254	2	12.41	12.36	12.46	137		
	3	13.02	12.97	13.07	147		
COLUMN 1	4	13.64	13.59	13.69	140		
	5	14.19	14.14	14.24	144	140	
	1	12.35	12.29	12.39	115		
	2	12.75	12.70	12.80	131		
	3	13.48	13.42	13.52	133		
COLUMN 2	4	14.08	14.03	14.13	153		
	5	14.46	14.41	14.51	126	130	7.7
	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.

ELCS3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: LC0827SE Date(s) Analyzed: 09/01/01 09/01/01

Instrument ID (1): HP_16A Instrument ID (2): HP_16B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	11.60	11.54	11.64	134		
Aroclor-1254	2	12.31	12.26	12.36	128		
	3	12.56	12.50	12.60	127		
COLUMN 1	4	12.94	12.89	12.99	136		
	5	13.36	13.31	13.41	148	130	
	1	12.07	12.01	12.11	130		
	2	12.43	12.38	12.48	143		
	3	12.68	12.63	12.73	146		
COLUMN 2	4	13.02	12.97	13.07	146		
	5	13.57	13.51	13.61	144	140	7.7
	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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FORM X PCB

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: LD0827SE Date(s) Analyzed: 09/01/01 09/01/01

Instrument ID (1): HP_16A Instrument ID (2): HP_16B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	11.60	11.54	11.64	132		
Aroclor-1254	2	12.31	12.26	12.36	126		
	3	12.56	12.50	12.60	124		
COLUMN 1	4	12.94	12.89	12.99	133		
	5	13.36	13.31	13.41	145	130	
	1	12.07	12.01	12.11	117		
	2	12.43	12.38	12.48	128		
	3	12.68	12.63	12.73	127		
COLUMN 2	4	13.02	12.97	13.07	131		
	5	13.57	13.51	13.61	130	130	0.0
	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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FORM X PCB

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Y3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.03 Date(s) Analyzed: 08/22/01 08/22/01

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.08	10.03	10.13	123		
Aroclor-1242	2	10.22	10.17	10.27	339		
	3	10.62	10.59	10.69	1810		
COLUMN 1	4	11.19	11.15	11.25	2800		
	5	11.28	11.24	11.34	1640	1300	
	1	10.38	10.34	10.44	452		
	2	10.62	10.57	10.67	358		
	3	10.83	10.78	10.88	3290		
COLUMN 2	4	11.43	11.38	11.48	1880		
	5	11.52	11.47	11.57	2010	1600	23.1
	1	11.84	11.80	11.90	1580		
Aroclor-1254	2	12.41	12.36	12.46	2180		
	3	13.02	12.97	13.07	1970		
COLUMN 1	4	13.64	13.59	13.69	2080		
	5	14.18	14.14	14.24	2670	2100	
	1	12.35	12.29	12.39	2290		
	2	12.75	12.70	12.80	1500		
	3	13.47	13.42	13.52	1490		
COLUMN 2	4	14.08	14.03	14.13	2170		
	5	14.46	14.41	14.51	1870	1900	10.5
	1	14.70	14.66	14.76	1900		
Aroclor-1260	2	14.90	14.86	14.96	669		
	3	14.99	14.94	15.04	394		
COLUMN 1	4	15.35	15.31	15.41	629		
	5	15.87	15.84	15.94	473	810	
	1	15.11	15.06	15.16	1340		
	2	15.26	15.22	15.32	513		
	3	15.36	15.31	15.41	359		
COLUMN 2	4	15.73	15.73	15.83	960		
	5	16.17	16.13	16.23	484	730	11.0

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Y3DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.03DL Date(s) Analyzed: 08/29/01 08/29/01

Instrument ID (1): HP_16A Instrument ID (2): HP_16B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	9.34	9.32	9.42	261		
Aroclor-1242	2	10.35	10.30	10.40	1960		
	3	10.44	10.39	10.49	2180		
COLUMN 1	4	10.61	10.57	10.67	1780		
	5					1500	
	1	9.07	9.01	9.11	255		
	2	9.12	9.15	9.25	251		
	3	9.43	9.38	9.48	5320		
COLUMN 2	4	9.90	9.86	9.96	1330		
	5					1800	20.0
	1	11.62	11.58	11.68	2220		
Aroclor-1254	2	12.34	12.30	12.40	1760		
	3	12.58	12.54	12.64	2340		
COLUMN 1	4	12.97	12.93	13.03	2500		
	5	13.38	13.34	13.44	2580	2300	
	1	12.10	12.04	12.14	2530		
	2	12.46	12.41	12.51	2400		
	3	12.69	12.66	12.76	2620		
COLUMN 2	4	13.04	13.00	13.10	2710		
	5	13.59	13.55	13.65	2480	2500	8.7
	1	14.05	14.00	14.10	1940		
Aroclor-1260	2	14.21	14.16	14.26	686		
	3	14.30	14.25	14.35	514		
COLUMN 1	4	14.72	14.67	14.77	694		
	5	15.14	15.09	15.19	569	880	
	1	13.59	13.54	13.64	1730		
	2	13.79	13.74	13.84	786		
	3	13.88	13.83	13.93	438		
COLUMN 2	4	14.24	14.19	14.29	633		
	5	14.79	14.74	14.84	535	820	7.3

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Y4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.04 Date(s) Analyzed: 08/22/01 08/22/01

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.13	10.03	10.13	169		
Aroclor-1242	2	10.21	10.17	10.27	230		
	3	10.62	10.59	10.69	1290		
COLUMN 1	4	11.19	11.15	11.25	1990		
	5	11.28	11.24	11.34	1060	950	
	1	10.37	10.34	10.44	279		
	2	10.62	10.57	10.67	204		
	3	10.83	10.78	10.88	2440		
COLUMN 2	4	11.43	11.38	11.48	1350		
	5	11.52	11.47	11.57	1390	1100	15.8
	1	11.84	11.80	11.90	1060		
Aroclor-1254	2	12.42	12.36	12.46	1480		
	3	13.02	12.97	13.07	1290		
COLUMN 1	4	13.64	13.59	13.69	1350		
	5	14.18	14.14	14.24	1730	1400	
	1	12.35	12.29	12.39	1680		
	2	12.75	12.70	12.80	1040		
	3	13.47	13.42	13.52	1010		
COLUMN 2	4	14.08	14.03	14.13	1500		
	5	14.46	14.41	14.51	1330	1300	7.7
	1	14.70	14.66	14.76	1230		
Aroclor-1260	2	14.90	14.86	14.96	440		
	3	14.99	14.94	15.04	225		
COLUMN 1	4	15.35	15.31	15.41	439		
	5	15.87	15.84	15.94	310	530	
	1	15.11	15.06	15.16	909		
	2	15.26	15.22	15.32	368		
	3	15.36	15.31	15.41	242		
COLUMN 2	4	15.77	15.73	15.83	295		
	5	16.17	16.13	16.23	334	430	23.3

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Y4DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.04DL Date(s) Analyzed: 08/29/01 08/29/01

Instrument ID (1): HP_16A Instrument ID (2): HP_16B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	9.34	9.32	9.42	190		
Aroclor-1242	2	10.35	10.30	10.40	1420		
	3	10.44	10.39	10.49	1570		
COLUMN 1	4	10.61	10.57	10.67	1290		
	5	12.58	12.55	12.65	14800	3900	
	1	9.07	9.01	9.11	157		
	2	9.12	9.15	9.25	379		
	3	9.43	9.38	9.48	3470		
COLUMN 2	4	9.90	9.86	9.96	974		
	5	10.71	10.66	10.76	5310	2100	85.7
	1	11.62	11.58	11.68	1550		
Aroclor-1254	2	12.34	12.30	12.40	1240		
	3	12.58	12.54	12.64	1710		
COLUMN 1	4	12.97	12.93	13.03	1760		
	5	13.38	13.34	13.44	1770	1600	
	1	12.09	12.04	12.14	1750		
	2	12.46	12.41	12.51	1700		
	3	12.69	12.66	12.76	1870		
COLUMN 2	4	13.04	13.00	13.10	1850		
	5	13.59	13.55	13.65	1720	1800	12.5
	1	14.05	14.00	14.10	1340		
Aroclor-1260	2	14.21	14.16	14.26	472		
	3	14.30	14.25	14.35	332		
COLUMN 1	4	14.72	14.67	14.77	465		
	5	15.14	15.09	15.19	408	600	
	1	13.59	13.54	13.64	1200		
	2	13.79	13.74	13.84	543		
	3	13.88	13.83	13.93	294		
COLUMN 2	4	14.24	14.19	14.29	448		
	5	14.79	14.74	14.84	366	570	5.3

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Y5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.05 Date(s) Analyzed: 08/22/01 08/22/01

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.12	10.03	10.13	105		
Aroclor-1242	2	10.21	10.17	10.27	194		
	3	10.62	10.59	10.69	859		
COLUMN 1	4	11.19	11.15	11.25	1300		
	5	11.29	11.24	11.34	720	640	
	1	10.38	10.34	10.44	164		
	2	10.62	10.57	10.67	127		
	3	10.83	10.78	10.88	1720		
COLUMN 2	4	11.43	11.38	11.48	909		
	5	11.53	11.47	11.57	877	760	18.8
	1	11.85	11.80	11.90	684		
Aroclor-1254	2	12.42	12.36	12.46	986		
	3	13.02	12.97	13.07	831		
COLUMN 1	4	13.64	13.59	13.69	882		
	5	14.18	14.14	14.24	1160	910	
	1	12.36	12.29	12.39	1230		
	2	12.75	12.70	12.80	763		
	3	13.48	13.42	13.52	714		
COLUMN 2	4	14.08	14.03	14.13	1070		
	5	14.46	14.41	14.51	1020	960	5.5
	1	14.71	14.66	14.76	809		
Aroclor-1260	2	14.91	14.86	14.96	270		
	3	14.99	14.94	15.04	134		
COLUMN 1	4	15.35	15.31	15.41	274		
	5	15.87	15.84	15.94	187	330	
	1	15.11	15.06	15.16	648		
	2	15.27	15.22	15.32	261		
	3	15.36	15.31	15.41	174		
COLUMN 2	4	15.77	15.73	15.83	205		
	5	16.17	16.13	16.23	228	300	10.0

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Y5DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.05DL Date(s) Analyzed: 08/29/01 08/29/01

Instrument ID (1): HP_16A Instrument ID (2): HP_16B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	9.34	9.32	9.42	98.7		
Aroclor-1242	2	10.35	10.30	10.40	694		
	3	10.43	10.39	10.49	775		
COLUMN 1	4	10.61	10.57	10.67	641		
	5	12.58	12.55	12.65	7390	1900	
	1	9.07	9.01	9.11	66.0		
	2	9.12	9.15	9.25	362		
	3	9.43	9.38	9.48	3100		
COLUMN 2	4	9.90	9.86	9.96	825		
	5	10.70	10.66	10.76	2740	1400	35.7
	1	11.62	11.58	11.68	817		
Aroclor-1254	2	12.34	12.30	12.40	645		
	3	12.58	12.54	12.64	857		
COLUMN 1	4	12.97	12.93	13.03	921		
	5	13.38	13.34	13.44	928	830	
	1	12.09	12.04	12.14	925		
	2	12.46	12.41	12.51	905		
	3	12.68	12.66	12.76	1080		
COLUMN 2	4	13.04	13.00	13.10	970		
	5	13.59	13.55	13.65	938	960	15.7
	1	14.05	14.00	14.10	715		
Aroclor-1260	2	14.21	14.16	14.26	228		
	3	14.30	14.25	14.35	160		
COLUMN 1	4	14.72	14.67	14.77	231		
	5	15.13	15.09	15.19	222	310	
	1	13.59	13.54	13.64	655		
	2	13.79	13.74	13.84	279		
	3	13.88	13.83	13.93	145		
COLUMN 2	4	14.24	14.19	14.29	216		
	5	14.78	14.74	14.84	189	300	3.3

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Y6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.06 Date(s) Analyzed: 08/22/01 08/22/01

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.07	10.03	10.13	29.3		
Aroclor-1242	2	10.21	10.17	10.27	90.3		
	3	10.62	10.59	10.69	420		
COLUMN 1	4	11.19	11.15	11.25	651		
	5	11.29	11.24	11.34	381	310	
	1	10.38	10.34	10.44	87.2		
	2	10.62	10.57	10.67	63.3		
	3	10.83	10.78	10.88	961		
COLUMN 2	4	11.43	11.38	11.48	525		
	5	11.53	11.47	11.57	538	430	38.7
	1	11.85	11.80	11.90	368		
Aroclor-1254	2	12.42	12.36	12.46	514		
	3	13.02	12.97	13.07	414		
COLUMN 1	4	13.64	13.59	13.69	445		
	5	14.18	14.14	14.24	572	460	
	1	12.35	12.29	12.39	661		
	2	12.75	12.70	12.80	437		
	3	13.48	13.42	13.52	379		
COLUMN 2	4	14.08	14.03	14.13	582		
	5	14.46	14.41	14.51	526	520	13.0
	1	14.71	14.66	14.76	395		
Aroclor-1260	2	14.91	14.86	14.96	120		
	3	14.99	14.94	15.04	51.9		
COLUMN 1	4	15.35	15.31	15.41	124		
	5	15.87	15.84	15.94	85.4	160	
	1	15.11	15.06	15.16	340		
	2	15.27	15.22	15.32	130		
	3	15.36	15.31	15.41	83.4		
COLUMN 2	4	15.77	15.73	15.83	107		
	5	16.17	16.13	16.23	152	160	0.0

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Y7

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.07 Date(s) Analyzed: 08/22/01 08/22/01

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1242 COLUMN 1	1	10.12	10.03	10.13	17.1		
	2	10.21	10.17	10.27	43.4		
	3	10.62	10.59	10.69	68.3		
	4	11.20	11.15	11.25	111		
	5	11.29	11.24	11.34	63.2	61	
Aroclor-1242 COLUMN 2	1	10.38	10.34	10.44	14.6		
	2	10.62	10.57	10.67	11.5		
	3	10.83	10.78	10.88	183		
	4	11.43	11.38	11.48	97.9		
	5	11.53	11.47	11.57	95.1	80	31.1
Aroclor-1254 COLUMN 1	1	11.85	11.80	11.90	65.4		
	2	12.42	12.36	12.46	90.2		
	3	13.02	12.97	13.07	73.8		
	4	13.64	13.59	13.69	81.1		
	5	14.18	14.14	14.24	102	83	
Aroclor-1254 COLUMN 2	1	12.35	12.29	12.39	134		
	2	12.75	12.70	12.80	99.9		
	3	13.48	13.42	13.52	72.9		
	4	14.08	14.03	14.13	111		
	5	14.46	14.41	14.51	112	110	32.5
Aroclor-1260 COLUMN 1	1	14.71	14.66	14.76	72.3		
	2	14.91	14.86	14.96	27.4		
	3	14.99	14.94	15.04	11.3		
	4	15.35	15.31	15.41	27.6		
	5	15.88	15.84	15.94	15.1	31	
Aroclor-1260 COLUMN 2	1	15.11	15.06	15.16	64.5		
	2	15.27	15.22	15.32	22.6		
	3	15.36	15.31	15.41	13.0		
	4	15.74	15.73	15.83	40.7		
	5	16.17	16.13	16.23	36.0	35	12.9

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Y8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.08 Date(s) Analyzed: 08/22/01 08/22/01

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.07	10.03	10.13	8.0		
Aroclor-1242	2	10.21	10.17	10.27	52.7		
	3	10.62	10.59	10.69	133		
COLUMN 1	4	11.20	11.15	11.25	264		
	5	11.29	11.24	11.34	162	120	
	1	10.38	10.34	10.44	30.0		
	2	10.62	10.57	10.67	20.0		
	3	10.84	10.78	10.88	376		
COLUMN 2	4	11.43	11.38	11.48	212		
	5	11.53	11.47	11.57	224	170	41.7
	1	11.85	11.80	11.90	142		
Aroclor-1254	2	12.42	12.36	12.46	203		
	3	13.02	12.97	13.07	160		
COLUMN 1	4	13.64	13.59	13.69	184		
	5	14.18	14.14	14.24	236	190	
	1	12.35	12.29	12.39	282		
	2	12.75	12.70	12.80	172		
	3	13.48	13.42	13.52	154		
COLUMN 2	4	14.08	14.03	14.13	236		
	5	14.46	14.41	14.51	218	210	10.5
	1	14.71	14.66	14.76	161		
Aroclor-1260	2	14.91	14.86	14.96	59.8		
	3	14.99	14.94	15.04	25.5		
COLUMN 1	4	15.35	15.31	15.41	56.3		
	5	15.87	15.84	15.94	37.0	68	
	1	15.11	15.06	15.16	138		
	2	15.27	15.22	15.32	49.1		
	3	15.36	15.31	15.41	31.0		
COLUMN 2	4	15.77	15.73	15.83	41.2		
	5	16.17	16.13	16.23	52.2	62	9.7

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Y9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.09 Date(s) Analyzed: 08/22/01 08/22/01

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.13	10.03	10.13	12.2		
Aroclor-1242	2	10.21	10.17	10.27	61.6		
	3	10.62	10.59	10.69	63.9		
COLUMN 1	4	11.20	11.15	11.25	111		
	5	11.29	11.24	11.34	59.8	62	
	1	10.38	10.34	10.44	14.2		
	2	10.62	10.57	10.67	11.3		
	3	10.83	10.78	10.88	159		
COLUMN 2	4	11.43	11.38	11.48	89.7		
	5	11.53	11.47	11.57	87.1	72	16.1
	1	11.85	11.80	11.90	59.6		
Aroclor-1254	2	12.42	12.36	12.46	80.4		
	3	13.02	12.97	13.07	65.7		
COLUMN 1	4	13.64	13.59	13.69	73.9		
	5	14.18	14.14	14.24	93.3	75	
	1	12.35	12.29	12.39	116		
	2	12.75	12.70	12.80	90.4		
	3	13.48	13.42	13.52	61.5		
COLUMN 2	4	14.08	14.03	14.13	97.7		
	5	14.46	14.41	14.51	91.4	91	21.3
	1	14.71	14.66	14.76	64.5		
Aroclor-1260	2	14.91	14.86	14.96	25.8		
	3	14.99	14.94	15.04	11.4		
COLUMN 1	4	15.35	15.31	15.41	27.2		
	5	15.87	15.84	15.94	10.4	28	
	1	15.11	15.06	15.16	57.2		
	2	15.27	15.22	15.32	20.0		
	3	15.36	15.31	15.41	12.6		
COLUMN 2	4	15.77	15.73	15.83	17.4		
	5	16.17	16.13	16.23	20.3	26	7.7

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Z0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.10 Date(s) Analyzed: 08/22/01 08/22/01

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.03	10.03	10.13	15.3		
Aroclor-1242	2	10.22	10.17	10.27	32.2		
	3	10.63	10.59	10.69	84.3		
COLUMN 1	4	11.20	11.15	11.25	139		
	5	11.30	11.24	11.34	77.3	70	
	1	10.39	10.34	10.44	17.6		
	2	10.63	10.57	10.67	15.2		
	3	10.84	10.78	10.88	190		
COLUMN 2	4	11.44	11.38	11.48	105		
	5	11.53	11.47	11.57	103	86	22.9
	1	11.85	11.80	11.90	80.5		
Aroclor-1254	2	12.42	12.36	12.46	108		
	3	13.03	12.97	13.07	89.0		
COLUMN 1	4	13.65	13.59	13.69	105		
	5	14.19	14.14	14.24	127	100	
	1	12.36	12.29	12.39	143		
	2	12.76	12.70	12.80	105		
	3	13.48	13.42	13.52	80.4		
COLUMN 2	4	14.08	14.03	14.13	127		
	5	14.47	14.41	14.51	109	110	10.0
	1	14.72	14.66	14.76	84.8		
Aroclor-1260	2	14.91	14.86	14.96	29.0		
	3	15.00	14.94	15.04	14.7		
COLUMN 1	4	15.36	15.31	15.41	30.3		
	5	15.88	15.84	15.94	18.8	36	
	1	15.12	15.06	15.16	76.9		
	2	15.27	15.22	15.32	26.4		
	3	15.36	15.31	15.41	17.6		
COLUMN 2	4	15.77	15.73	15.83	24.4		
	5	16.18	16.13	16.23	28.0	35	2.9

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Z1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.11 Date(s) Analyzed: 08/22/01 08/22/01

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.08	10.03	10.13	440		
Aroclor-1242	2	10.22	10.17	10.27	874		
	3	10.63	10.59	10.69	3890		
COLUMN 1	4	11.20	11.15	11.25	5000		
	5	11.29	11.24	11.34	3090	2700	
	1	10.38	10.34	10.44	993		
	2	10.62	10.57	10.67	819		
	3	10.84	10.78	10.88	5100		
COLUMN 2	4	11.43	11.38	11.48	3330		
	5	11.53	11.47	11.57	3340	2700	0.0
	1	11.85	11.80	11.90	4050		
Aroclor-1254	2	12.42	12.36	12.46	5190		
	3	13.02	12.97	13.07	5080		
COLUMN 1	4	13.64	13.59	13.69	5590		
	5	14.18	14.14	14.24	7080	5400	
	1	12.36	12.29	12.39	4620		
	2	12.76	12.70	12.80	3660		
	3	13.48	13.42	13.52	3590		
COLUMN 2	4	14.08	14.03	14.13	5350		
	5	14.46	14.41	14.51	4720	4400	22.7
	1	14.71	14.66	14.76	5310		
Aroclor-1260	2	14.91	14.86	14.96	1810		
	3	14.99	14.94	15.04	970		
COLUMN 1	4	15.35	15.31	15.41	1660		
	5	15.88	15.84	15.94	1310	2200	
	1	15.12	15.06	15.16	3510		
	2	15.27	15.22	15.32	1250		
	3	15.36	15.31	15.41	873		
COLUMN 2	4	15.74	15.73	15.83	2370		
	5	16.18	16.13	16.23	1220	1800	22.2

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Z1DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.11DL Date(s) Analyzed: 08/29/01 08/29/01

Instrument ID (1): HP_16A Instrument ID (2): HP_16B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	9.34	9.32	9.42	394		
Aroclor-1242	2	10.35	10.30	10.40	4190		
	3	10.44	10.39	10.49	4200		
COLUMN 1	4	10.61	10.57	10.67	3740		
	5	12.58	12.55	12.65	64600	15000	
	1	9.07	9.01	9.11	1240		
	2	9.21	9.15	9.25	644		
	3	9.43	9.38	9.48	8890		
COLUMN 2	4	9.90	9.86	9.96	4680		
	5	10.71	10.66	10.76	25100	8100	85.2
	1	11.63	11.58	11.68	6880		
Aroclor-1254	2	12.34	12.30	12.40	5020		
	3	12.58	12.54	12.64	7490		
COLUMN 1	4	12.97	12.93	13.03	7810		
	5	13.39	13.34	13.44	8460	7100	
	1	12.10	12.04	12.14	8050		
	2	12.46	12.41	12.51	8400		
	3	12.70	12.66	12.76	6460		
COLUMN 2	4	13.04	13.00	13.10	9730		
	5	13.59	13.55	13.65	8700	8300	16.9
	1	14.05	14.00	14.10	6700		
Aroclor-1260	2	14.21	14.16	14.26	2060		
	3	14.30	14.25	14.35	1350		
COLUMN 1	4	14.72	14.67	14.77	2000		
	5	15.14	15.09	15.19	2180	2900	
	1	13.59	13.54	13.64	6080		
	2	13.79	13.74	13.84	2730		
	3	13.88	13.83	13.93	1630		
COLUMN 2	4	14.24	14.19	14.29	1770		
	5	14.79	14.74	14.84	1830	2800	3.6

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Z1MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.12MS Date(s) Analyzed: 08/22/01 08/22/01

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.08	10.03	10.13	145		
Aroclor-1242	2	10.21	10.17	10.27	379		
	3	10.63	10.59	10.69	2420		
COLUMN 1	4	11.20	11.15	11.25	2440		
	5	11.29	11.24	11.34	1650	1400	
	1	10.39	10.34	10.44	598		
	2	10.63	10.57	10.67	454		
	3	10.84	10.78	10.88	4150		
COLUMN 2	4	11.44	11.38	11.48	1970		
	5	11.53	11.47	11.57	2230	1900	35.7
	1	11.85	11.80	11.90	3690		
Aroclor-1254	2	12.42	12.36	12.46	4310		
	3	13.02	12.97	13.07	4660		
COLUMN 1	4	13.64	13.59	13.69	5210		
	5	14.18	14.14	14.24	6560	4900	
	1	12.36	12.29	12.39	4150		
	2	12.76	12.70	12.80	3870		
	3	13.48	13.42	13.52	3570		
COLUMN 2	4	14.08	14.03	14.13	5320		
	5	14.46	14.41	14.51	4850	4400	11.4
	1	14.71	14.66	14.76	5010		
Aroclor-1260	2	14.91	14.86	14.96	1560		
	3	15.00	14.94	15.04	949		
COLUMN 1	4	15.35	15.31	15.41	1470		
	5	15.88	15.84	15.94	1160	2000	
	1	15.12	15.06	15.16	3540		
	2	15.27	15.22	15.32	1190		
	3	15.36	15.31	15.41	806		
COLUMN 2	4	15.74	15.73	15.83	2270		
	5	16.18	16.13	16.23	1050	1800	11.1

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Z1MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.13MSD Date(s) Analyzed: 08/22/01 08/22/01

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.08	10.03	10.13	165		
Aroclor-1242	2	10.22	10.17	10.27	402		
	3	10.63	10.59	10.69	2680		
COLUMN 1	4	11.20	11.15	11.25	3070		
	5	11.29	11.24	11.34	2060	1700	
	1	10.39	10.34	10.44	659		
	2	10.63	10.57	10.67	490		
	3	10.84	10.78	10.88	5030		
COLUMN 2	4	11.44	11.38	11.48	2450		
	5	11.53	11.47	11.57	2760	2300	35.3
	1	11.85	11.80	11.90	4340		
Aroclor-1254	2	12.42	12.36	12.46	5110		
	3	13.02	12.97	13.07	5560		
COLUMN 1	4	13.64	13.59	13.69	6310		
	5	14.19	14.14	14.24	8070	5900	
	1	12.36	12.29	12.39	5150		
	2	12.76	12.70	12.80	4780		
	3	13.48	13.42	13.52	4340		
COLUMN 2	4	14.08	14.03	14.13	6660		
	5	14.46	14.41	14.51	6010	5400	9.3
	1	14.71	14.66	14.76	6120		
Aroclor-1260	2	14.91	14.86	14.96	1970		
	3	15.00	14.94	15.04	1010		
COLUMN 1	4	15.35	15.31	15.41	1790		
	5	15.88	15.84	15.94	1380	2500	
	1	15.12	15.06	15.16	4440		
	2	15.27	15.22	15.32	1500		
	3	15.36	15.31	15.41	1020		
COLUMN 2	4	15.74	15.73	15.83	2860		
	5	16.18	16.13	16.23	1340	2200	13.6

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Z2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.14 Date(s) Analyzed: 08/22/01 08/22/01

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.08	10.03	10.13	73.1		
Aroclor-1242	2	10.18	10.17	10.27	109		
	3	10.63	10.59	10.69	530		
COLUMN 1	4	11.20	11.15	11.25	538		
	5	11.29	11.24	11.34	354	320	
	1	10.38	10.34	10.44	140		
	2	10.63	10.57	10.67	98.4		
	3	10.84	10.78	10.88	1040		
COLUMN 2	4	11.44	11.38	11.48	500		
	5	11.53	11.47	11.57	618	480	50.0
	1	11.85	11.80	11.90	775		
Aroclor-1254	2	12.42	12.36	12.46	884		
	3	13.02	12.97	13.07	887		
COLUMN 1	4	13.64	13.59	13.69	1060		
	5	14.18	14.14	14.24	1330	990	
	1	12.36	12.29	12.39	977		
	2	12.76	12.70	12.80	843		
	3	13.48	13.42	13.52	770		
COLUMN 2	4	14.08	14.03	14.13	1250		
	5	14.46	14.41	14.51	1250	1000	1.0
	1	14.71	14.66	14.76	992		
Aroclor-1260	2	14.91	14.86	14.96	337		
	3	15.00	14.94	15.04	208		
COLUMN 1	4	15.35	15.31	15.41	372		
	5	15.88	15.84	15.94	223	430	
	1	15.12	15.06	15.16	815		
	2	15.27	15.22	15.32	355		
	3	15.36	15.31	15.41	215		
COLUMN 2	4	15.74	15.73	15.83	546		
	5	16.18	16.13	16.23	310	450	4.7

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Z2DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.14DL Date(s) Analyzed: 09/07/01 09/07/01

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	10.38	10.35	10.45	214		
COLUMN 1	4	11.49	11.45	11.55	603		
	5	11.79	11.79	11.89	740	520	
	1						
	2						
	3	12.04	12.00	12.10	488		
COLUMN 2	4	12.37	12.33	12.43	662		
	5	12.76	12.72	12.82	664	600	15.4
	1	12.37	12.33	12.43	971		
Aroclor-1254	2	13.06	13.02	13.12	1210		
	3	13.55	13.51	13.61	815		
COLUMN 1	4	14.10	14.06	14.16	1220		
	5	14.80	14.76	14.86	879	1000	
	1	12.04	12.00	12.10	673		
	2	13.34	13.30	13.40	1380		
	3	13.69	13.65	13.75	510		
COLUMN 2	4	14.72	14.68	14.78	1350		
	5	15.19	15.15	15.25	1030	990	1.0
	1	14.10	14.05	14.15	648		
Aroclor-1260	2	14.61	14.57	14.67	798		
	3	15.06	15.02	15.12	935		
COLUMN 1	4	15.53	15.49	15.59	266		
	5	15.98	15.94	16.04	259	580	
	1						
	2	14.52	14.47	14.57	1100		
	3	14.72	14.68	14.78	593		
COLUMN 2	4	15.90	15.86	15.96	228		
	5	16.13	16.09	16.19	238	540	7.4

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Z3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.15 Date(s) Analyzed: 08/22/01 08/22/01

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.07	10.03	10.13	7.7		
Aroclor-1242	2	10.21	10.17	10.27	32.9		
	3	10.63	10.59	10.69	197		
COLUMN 1	4	11.20	11.15	11.25	258		
	5	11.29	11.24	11.34	163	130	
	1	10.38	10.34	10.44	62.2		
	2	10.63	10.57	10.67	30.5		
	3	10.84	10.78	10.88	450		
COLUMN 2	4	11.44	11.38	11.48	204		
	5	11.54	11.47	11.57	238	200	53.8
	1	11.85	11.80	11.90	312		
Aroclor-1254	2	12.42	12.36	12.46	382		
	3	13.02	12.97	13.07	392		
COLUMN 1	4	13.64	13.59	13.69	495		
	5	14.18	14.14	14.24	635	440	
	1	12.36	12.29	12.39	410		
	2	12.76	12.70	12.80	365		
	3	13.48	13.42	13.52	352		
COLUMN 2	4	14.08	14.03	14.13	623		
	5	14.46	14.41	14.51	680	490	11.4
	1	14.71	14.66	14.76	465		
Aroclor-1260	2	14.91	14.86	14.96	166		
	3	15.00	14.94	15.04	96.9		
COLUMN 1	4	15.35	15.31	15.41	167		
	5	15.88	15.84	15.94	106	200	
	1	15.12	15.06	15.16	406		
	2	15.27	15.22	15.32	199		
	3	15.36	15.31	15.41	128		
COLUMN 2	4	15.74	15.73	15.83	276		
	5	16.17	16.13	16.23	171	240	20.0

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Z3DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.15DL Date(s) Analyzed: 09/07/01 09/07/01

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	10.39	10.35	10.45	53.6		
COLUMN 1	4	11.49	11.45	11.55	291		
	5	11.80	11.79	11.89	433	260	
	1						
	2						
	3	12.05	12.00	12.10	217		
COLUMN 2	4	12.37	12.33	12.43	393		
	5	12.76	12.72	12.82	313	310	19.2
	1	12.38	12.33	12.43	368		
Aroclor-1254	2	13.06	13.02	13.12	604		
	3	13.56	13.51	13.61	329		
COLUMN 1	4	14.10	14.06	14.16	482		
	5	14.80	14.76	14.86	395	440	
	1	12.05	12.00	12.10	299		
	2	13.34	13.30	13.40	585		
	3						
COLUMN 2	4	14.72	14.68	14.78	574		
	5	15.20	15.15	15.25	437	470	6.8
	1	14.10	14.05	14.15	257		
Aroclor-1260	2	14.61	14.57	14.67	327		
	3	15.06	15.02	15.12	393		
COLUMN 1	4	15.54	15.49	15.59	117		
	5	15.98	15.94	16.04	111	240	
	1						
	2	14.52	14.47	14.57	474		
	3	14.72	14.68	14.78	252		
COLUMN 2	4	15.91	15.86	15.96	95.1		
	5	16.13	16.09	16.19	123	240	0.0

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Z4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.16 Date(s) Analyzed: 08/22/01 08/22/01

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.07	10.03	10.13	90.2		
Aroclor-1242	2	10.21	10.17	10.27	245		
	3	10.63	10.59	10.69	375		
COLUMN 1	4	11.20	11.15	11.25	408		
	5	11.29	11.24	11.34	237	270	
	1	10.38	10.34	10.44	97.7		
	2	10.63	10.57	10.67	51.0		
	3	10.84	10.78	10.88	611		
COLUMN 2	4	11.43	11.38	11.48	327		
	5	11.53	11.47	11.57	427	300	11.1
	1	11.85	11.80	11.90	420		
Aroclor-1254	2	12.42	12.36	12.46	530		
	3	13.02	12.97	13.07	542		
COLUMN 1	4	13.64	13.59	13.69	717		
	5	14.19	14.14	14.24	991	640	
	1	12.36	12.29	12.39	574		
	2	12.76	12.70	12.80	533		
	3	13.48	13.42	13.52	492		
COLUMN 2	4	14.08	14.03	14.13	859		
	5	14.46	14.41	14.51	959	680	6.3
	1	14.71	14.66	14.76	697		
Aroclor-1260	2	14.91	14.86	14.96	319		
	3	15.00	14.94	15.04	163		
COLUMN 1	4	15.35	15.31	15.41	301		
	5	15.88	15.84	15.94	196	340	
	1	15.12	15.06	15.16	627		
	2	15.27	15.22	15.32	333		
	3	15.36	15.31	15.41	235		
COLUMN 2	4	15.78	15.73	15.83	225		
	5	16.18	16.13	16.23	288	340	0.0

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Z4DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.16DL Date(s) Analyzed: 09/07/01 09/07/01

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	10.38	10.35	10.45	151		
COLUMN 1	4	11.45	11.45	11.55	312		
	5	11.79	11.79	11.89	635	370	
	1						
	2						
	3	12.04	12.00	12.10	348		
COLUMN 2	4	12.37	12.33	12.43	490		
	5	12.76	12.72	12.82	406	410	10.8
	1	12.37	12.33	12.43	485		
Aroclor-1254	2	13.06	13.02	13.12	776		
	3	13.55	13.51	13.61	485		
COLUMN 1	4	14.10	14.06	14.16	696		
	5	14.80	14.76	14.86	615	610	
	1	12.04	12.00	12.10	480		
	2	13.34	13.30	13.40	781		
	3						
COLUMN 2	4	14.72	14.68	14.78	749		
	5	15.19	15.15	15.25	638	660	8.2
	1	14.10	14.05	14.15	370		
Aroclor-1260	2	14.61	14.57	14.67	467		
	3	15.06	15.02	15.12	538		
COLUMN 1	4	15.53	15.49	15.59	167		
	5	15.98	15.94	16.04	163	340	
	1						
	2	14.52	14.47	14.57	639		
	3	14.72	14.68	14.78	329		
COLUMN 2	4	15.91	15.86	15.96	146		
	5	16.13	16.09	16.19	143	310	9.7

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Z5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.17 Date(s) Analyzed: 08/23/01 08/23/01

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.07	10.03	10.13	70.9		
Aroclor-1242	2	10.22	10.17	10.27	164		
	3	10.63	10.59	10.69	166		
COLUMN 1	4	11.20	11.15	11.25	211		
	5	11.29	11.24	11.34	135	150	
	1	10.39	10.34	10.44	34.5		
	2	10.63	10.57	10.67	23.5		
	3	10.84	10.78	10.88	336		
COLUMN 2	4	11.44	11.38	11.48	201		
	5	11.54	11.47	11.57	223	160	6.7
	1	11.86	11.80	11.90	194		
Aroclor-1254	2	12.42	12.36	12.46	252		
	3	13.02	12.97	13.07	225		
COLUMN 1	4	13.64	13.59	13.69	290		
	5	14.19	14.14	14.24	360	260	
	1	12.36	12.29	12.39	304		
	2	12.76	12.70	12.80	266		
	3	13.48	13.42	13.52	220		
COLUMN 2	4	14.09	14.03	14.13	374		
	5	14.47	14.41	14.51	387	310	19.2
	1	14.71	14.66	14.76	262		
Aroclor-1260	2	14.91	14.86	14.96	75.0		
	3	15.00	14.94	15.04	29.6		
COLUMN 1	4	15.36	15.31	15.41	78.9		
	5	15.88	15.84	15.94	48.5	99	
	1	15.12	15.06	15.16	235		
	2	15.27	15.22	15.32	86.2		
	3	15.36	15.31	15.41	51.2		
COLUMN 2	4	15.73	15.73	15.83	98.2		
	5	16.17	16.13	16.23	78.5	110	11.1

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Z6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.18 Date(s) Analyzed: 08/23/01 08/23/01

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.05	10.03	10.13	27.2		
Aroclor-1242	2	10.21	10.17	10.27	115		
	3	10.63	10.59	10.69	124		
COLUMN 1	4	11.20	11.15	11.25	177		
	5	11.29	11.24	11.34	120	110	
	1	10.38	10.34	10.44	36.6		
	2	10.63	10.57	10.67	25.5		
	3	10.83	10.78	10.88	330		
COLUMN 2	4	11.43	11.38	11.48	158		
	5	11.53	11.47	11.57	169	140	27.3
	1	11.85	11.80	11.90	213		
Aroclor-1254	2	12.42	12.36	12.46	252		
	3	13.02	12.97	13.07	225		
COLUMN 1	4	13.64	13.59	13.69	288		
	5	14.18	14.14	14.24	378	270	
	1	12.36	12.29	12.39	284		
	2	12.76	12.70	12.80	262		
	3	13.48	13.42	13.52	225		
COLUMN 2	4	14.08	14.03	14.13	372		
	5	14.46	14.41	14.51	414	310	14.8
	1	14.71	14.66	14.76	260		
Aroclor-1260	2	14.91	14.86	14.96	74.6		
	3	15.00	14.94	15.04	36.1		
COLUMN 1	4	15.36	15.31	15.41	79.6		
	5	15.88	15.84	15.94	54.0	100	
	1	15.12	15.06	15.16	243		
	2	15.27	15.22	15.32	90.7		
	3	15.36	15.31	15.41	63.1		
COLUMN 2	4	15.75	15.73	15.83	63.9		
	5	16.17	16.13	16.23	86.6	110	10.0

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Z7

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.19 Date(s) Analyzed: 09/06/01 09/06/01

Instrument ID (1): HP_16A Instrument ID (2): HP_16B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	11.17	11.12	11.22	47.2		
Aroclor-1254	2	11.57	11.54	11.64	60.8		
	3	12.53	12.50	12.60	47.7		
COLUMN 1	4	12.92	12.88	12.98	47.5		
	5	13.34	13.31	13.41	50.3	51	
	1	10.65	10.60	10.70	40.0		
	2	11.21	11.16	11.26	43.2		
	3	11.79	11.74	11.84	30.7		
COLUMN 2	4	12.41	12.36	12.46	42.2		
	5	12.99	12.95	13.05	49.8	41	24.4
	1	13.34	13.30	13.40	34.2		
Aroclor-1260	2						
	3	14.16	14.12	14.22	19.3		
COLUMN 1	4						
	5	15.09	15.07	15.17	15.6	23	
	1	12.41	12.36	12.46	24.4		
	2	13.55	13.52	13.62	42.7		
	3	14.19	14.15	14.25	18.9		
COLUMN 2	4	14.74	14.71	14.81	11.8		
	5	15.34	15.30	15.40	18.8	23	0.0
	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

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Z8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.20 Date(s) Analyzed: 08/23/01 08/23/01

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.63	10.03	10.13	33.8		
Aroclor-1242	2						
	3	10.63	10.59	10.69	124		
COLUMN 1	4	11.20	11.15	11.25	93.5		
	5	11.29	11.24	11.34	42.9	74	
	1	10.39	10.34	10.44	14.3		
	2	10.63	10.57	10.67	11.1		
	3	10.84	10.78	10.88	163		
COLUMN 2	4	11.44	11.38	11.48	81.2		
	5	11.54	11.47	11.57	82.8	70	5.7
	1	11.86	11.80	11.90	108		
Aroclor-1254	2	12.42	12.36	12.46	148		
	3	13.02	12.97	13.07	145		
COLUMN 1	4	13.65	13.59	13.69	158		
	5	14.19	14.14	14.24	201	150	
	1	12.36	12.29	12.39	162		
	2	12.76	12.70	12.80	169		
	3	13.48	13.42	13.52	133		
COLUMN 2	4	14.09	14.03	14.13	234		
	5	14.46	14.41	14.51	277	200	33.3
	1	14.71	14.66	14.76	142		
Aroclor-1260	2	14.91	14.86	14.96	58.4		
	3	14.99	14.94	15.04	22.8		
COLUMN 1	4	15.35	15.31	15.41	100		
	5	15.88	15.84	15.94	25.8	70	
	1	15.12	15.06	15.16	140		
	2	15.27	15.22	15.32	105		
	3	15.36	15.31	15.41	27.1		
COLUMN 2	4	15.76	15.73	15.83	43.2		
	5	16.18	16.13	16.23	60.5	75	7.1

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Z9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.21 Date(s) Analyzed: 08/23/01 08/23/01

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.08	10.03	10.13	211		
Aroclor-1242	2	10.22	10.17	10.27	406		
	3	10.63	10.59	10.69	1140		
COLUMN 1	4	11.20	11.15	11.25	1330		
	5	11.29	11.24	11.34	804	780	
	1	10.39	10.34	10.44	410		
	2	10.63	10.57	10.67	362		
	3	10.84	10.78	10.88	2040		
COLUMN 2	4	11.44	11.38	11.48	962		
	5	11.54	11.47	11.57	1230	1000	28.2
	1	11.85	11.80	11.90	1550		
Aroclor-1254	2	12.42	12.36	12.46	1910		
	3	13.02	12.97	13.07	2070		
COLUMN 1	4	13.64	13.59	13.69	2520		
	5	14.19	14.14	14.24	3150	2200	
	1	12.36	12.29	12.39	1920		
	2	12.76	12.70	12.80	1780		
	3	13.48	13.42	13.52	1700		
COLUMN 2	4	14.08	14.03	14.13	2690		
	5	14.46	14.41	14.51	2480	2100	4.8
	1	14.71	14.66	14.76	2410		
Aroclor-1260	2	14.91	14.86	14.96	854		
	3	15.00	14.94	15.04	444		
COLUMN 1	4	15.36	15.31	15.41	842		
	5	15.88	15.84	15.94	614	1000	
	1	15.12	15.06	15.16	1810		
	2	15.27	15.22	15.32	764		
	3	15.36	15.31	15.41	477		
COLUMN 2	4	15.78	15.73	15.83	512		
	5	16.18	16.13	16.23	644	840	19.0

At least 3 peaks are required for identification of multicomponent analytes

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Z9RE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.21RE Date(s) Analyzed: 09/01/01 09/01/01

Instrument ID (1): HP_16A Instrument ID (2): HP_16B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	9.31	9.28	9.38	242		
Aroclor-1242	2	10.31	10.27	10.37	909		
	3	10.40	10.35	10.45	1140		
COLUMN 1	4	10.57	10.53	10.63	850		
	5	10.98	10.96	11.06	978	820	
	1	9.03	8.98	9.08	159		
	2	9.09	9.11	9.21	528		
	3	9.43	9.39	9.49	1440		
COLUMN 2	4	9.86	9.82	9.92	518		
	5	10.67	10.62	10.72	5860	1700	107
	1	11.58	11.54	11.64	1870		
Aroclor-1254	2	12.30	12.26	12.36	1840		
	3	12.54	12.50	12.60	1940		
COLUMN 1	4	12.93	12.89	12.99	2480		
	5	13.34	13.31	13.41	2580	2100	
	1	12.05	12.01	12.11	1970		
	2	12.42	12.38	12.48	2370		
	3	12.64	12.63	12.73	2560		
COLUMN 2	4	13.00	12.97	13.07	2670		
	5	13.55	13.51	13.61	2960	2500	19.0
	1	14.02	13.97	14.07	1860		
Aroclor-1260	2	14.18	14.13	14.23	698		
	3	14.27	14.23	14.33	533		
COLUMN 1	4	14.69	14.65	14.75	542		
	5	15.10	15.07	15.17	626	850	
	1	13.55	13.51	13.61	1820		
	2	13.76	13.71	13.81	563		
	3	13.85	13.80	13.90	472		
COLUMN 2	4	14.21	14.17	14.27	707		
	5	14.76	14.71	14.81	467	810	4.9

At least 3 peaks are required for identification of multicomponent analytes

FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00Z9REDL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.21REDL Date(s) Analyzed: 09/01/01 09/01/01

Instrument ID (1): HP_16A Instrument ID (2): HP_16B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	9.32	9.28	9.38	288		
Aroclor-1242	2	10.31	10.27	10.37	970		
	3	10.40	10.35	10.45	1150		
COLUMN 1	4	10.57	10.53	10.63	893		
	5	10.98	10.96	11.06	777	820	
	1	9.03	8.98	9.08	164		
	2	9.09	9.11	9.21	578		
	3	9.39	9.39	9.49	5050		
COLUMN 2	4	9.87	9.82	9.92	553		
	5	10.67	10.62	10.72	6750	2600	217
	1	11.59	11.54	11.64	2150		
Aroclor-1254	2	12.30	12.26	12.36	1780		
	3	12.54	12.50	12.60	2050		
COLUMN 1	4	12.94	12.89	12.99	2880		
	5	13.35	13.31	13.41	2850	2300	
	1	12.06	12.01	12.11	2060		
	2	12.43	12.38	12.48	2810		
	3	12.64	12.63	12.73	2770		
COLUMN 2	4	13.01	12.97	13.07	3380		
	5	13.55	13.51	13.61	3150	2800	21.7
	1	14.02	13.97	14.07	1930		
Aroclor-1260	2	14.18	14.13	14.23	720		
	3	14.27	14.23	14.33	520		
COLUMN 1	4	14.69	14.65	14.75	623		
	5	15.11	15.07	15.17	767	910	
	1	13.55	13.51	13.61	1950		
	2	13.76	13.71	13.81	627		
	3	13.85	13.80	13.90	453		
COLUMN 2	4	14.21	14.17	14.27	696		
	5	14.76	14.71	14.81	564	860	5.8

At least 3 peaks are required for identification of multicomponent analytes

page 1 of 1

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E0100

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.22 Date(s) Analyzed: 08/23/01 08/23/01

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.08	10.03	10.13	180		
Aroclor-1242	2	10.17	10.17	10.27	217		
	3	10.63	10.59	10.69	494		
COLUMN 1	4	11.20	11.15	11.25	521		
	5	11.29	11.24	11.34	343	350	
	1	10.38	10.34	10.44	148		
	2	10.63	10.57	10.67	106		
	3	10.84	10.78	10.88	866		
COLUMN 2	4	11.43	11.38	11.48	436		
	5	11.53	11.47	11.57	539	420	20.0
	1	11.85	11.80	11.90	665		
Aroclor-1254	2	12.42	12.36	12.46	811		
	3	13.02	12.97	13.07	819		
COLUMN 1	4	13.64	13.59	13.69	1050		
	5	14.19	14.14	14.24	1330	940	
	1	12.36	12.29	12.39	887		
	2	12.76	12.70	12.80	841		
	3	13.48	13.42	13.52	734		
COLUMN 2	4	14.09	14.03	14.13	1230		
	5	14.47	14.41	14.51	1250	990	5.3
	1	14.71	14.66	14.76	1000		
Aroclor-1260	2	14.91	14.86	14.96	388		
	3	15.00	14.94	15.04	192		
COLUMN 1	4	15.36	15.31	15.41	432		
	5	15.88	15.84	15.94	265	460	
	1	15.12	15.06	15.16	819		
	2	15.27	15.22	15.32	381		
	3	15.37	15.31	15.41	237		
COLUMN 2	4	15.78	15.73	15.83	268		
	5	16.18	16.13	16.23	336	410	12.2

At least 3 peaks are required for identification of multicomponent analytes

page 1 of 1

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E0100DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Lab Sample ID: 47166.22DL Date(s) Analyzed: 08/29/01 08/29/01

Instrument ID (1): HP_16A Instrument ID (2): HP_16B

GC Column (1): RTX-PEST 2 ID: 0.32(mm) GC Column (2): RTX-PEST ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	9.33	9.32	9.42	111		
Aroclor-1242	2	10.34	10.30	10.40	363		
	3	10.43	10.39	10.49	475		
COLUMN 1	4	10.60	10.57	10.67	322		
	5					320	
	1	9.06	9.01	9.11	33.8		
	2	9.12	9.15	9.25	453		
	3	9.43	9.38	9.48	4980		
COLUMN 2	4	9.90	9.86	9.96	211		
	5					1400	338
	1	11.62	11.58	11.68	947		
Aroclor-1254	2	12.34	12.30	12.40	735		
	3	12.57	12.54	12.64	864		
COLUMN 1	4	12.97	12.93	13.03	1150		
	5	13.38	13.34	13.44	1170	970	
	1	12.09	12.04	12.14	915		
	2	12.46	12.41	12.51	1250		
	3	12.68	12.66	12.76	1200		
COLUMN 2	4	13.04	13.00	13.10	1350		
	5	13.58	13.55	13.65	1340	1200	23.7
	1	14.05	14.00	14.10	986		
Aroclor-1260	2	14.21	14.16	14.26	405		
	3	14.30	14.25	14.35	260		
COLUMN 1	4	14.72	14.67	14.77	319		
	5	15.13	15.09	15.19	344	460	
	1	13.58	13.54	13.64	936		
	2	13.79	13.74	13.84	440		
	3	13.88	13.83	13.93	230		
COLUMN 2	4	14.24	14.19	14.29	380		
	5	14.78	14.74	14.84	290	460	0.0

At least 3 peaks are required for identification of multicomponent analytes

page 1 of 1

Chromatographic Resolution Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082010.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082010.D\ECD2B.CH
Acq On : 20 Aug 2001 17:58 Operator: TLM
Sample : RESCAC Inst : HP_14
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title : PCB/TOXAPHENE

OK 8-24-01

RT#1	RT#2	Resolution	Compound for RT#1
6.907	18.505	100.00%	TCX
Signal #2			
6.866	19.280	100.00%	TCX #2

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29546 SDG E0001
Signature S Zackett
Date 8/31/01

* = Value less than resolution criteria, 60 for RESC, 90 for PEM, INDA, INDB
14082010.D XPCBH20.M Tue Aug 21 16:50:25 2001

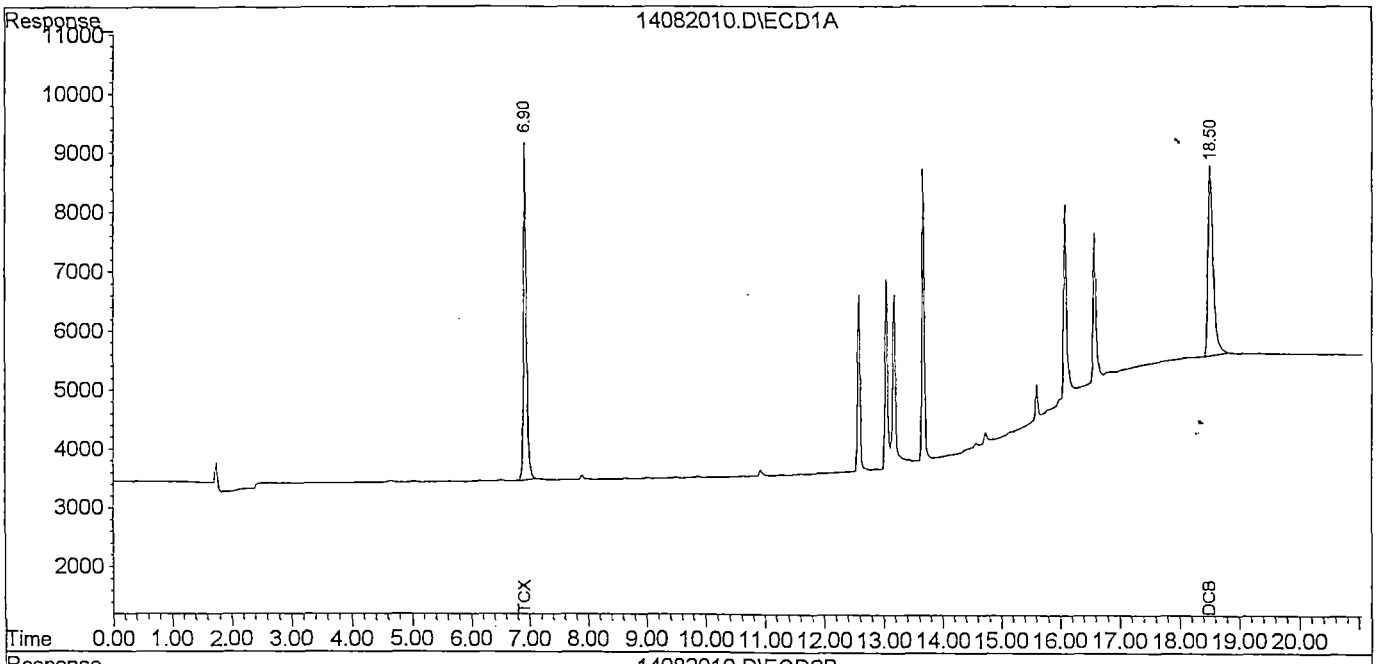
Chromatographic Report

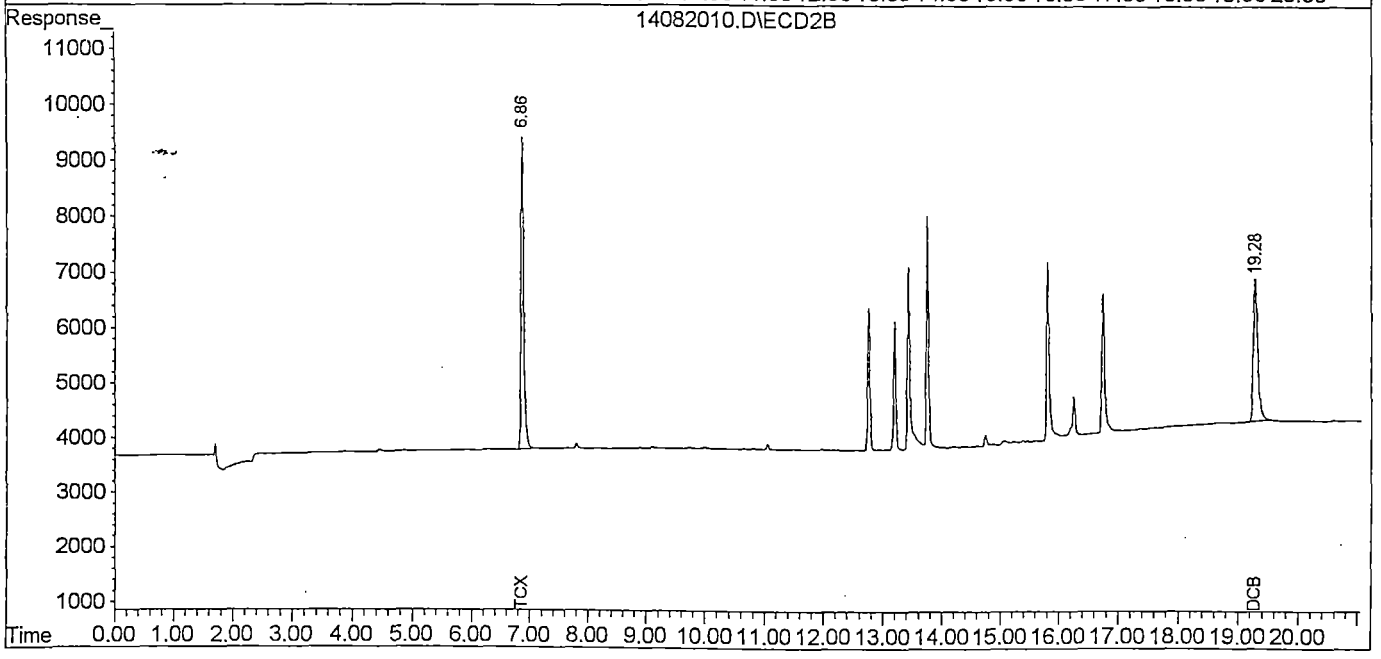
Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082010.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082010.D\ECD2B.CH
Acq On : 20 Aug 2001 17:58 Operator: TLM
Sample : RESCAC Inst : HP_14
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 16:50 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

DIC 8-24-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082010.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082010.D\ECD2B.CH
Acq On : 20 Aug 2001 17:58 Operator: TLM
Sample : RESCAC Inst : HP_14
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 16:50 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.91	6.86	201424	179159	19.6	19.1
22)	S DCB	18.50	19.28	191343	126112	19.0	19.5
	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

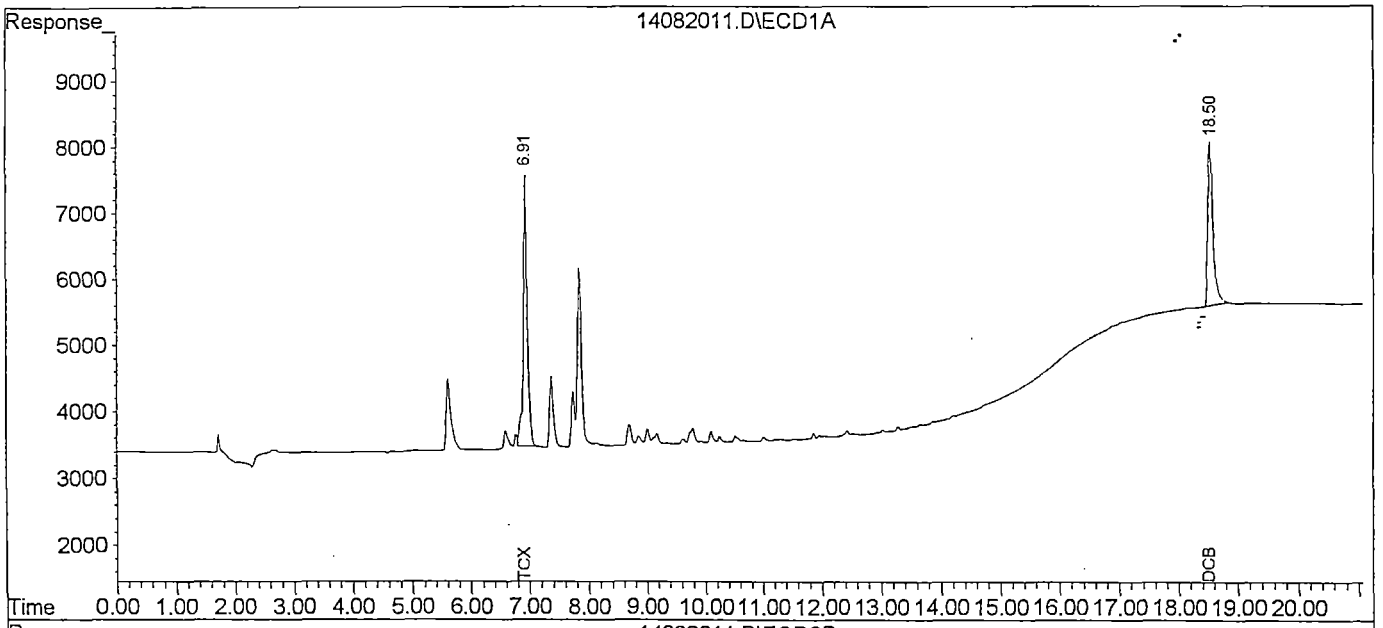
Chromatographic Report

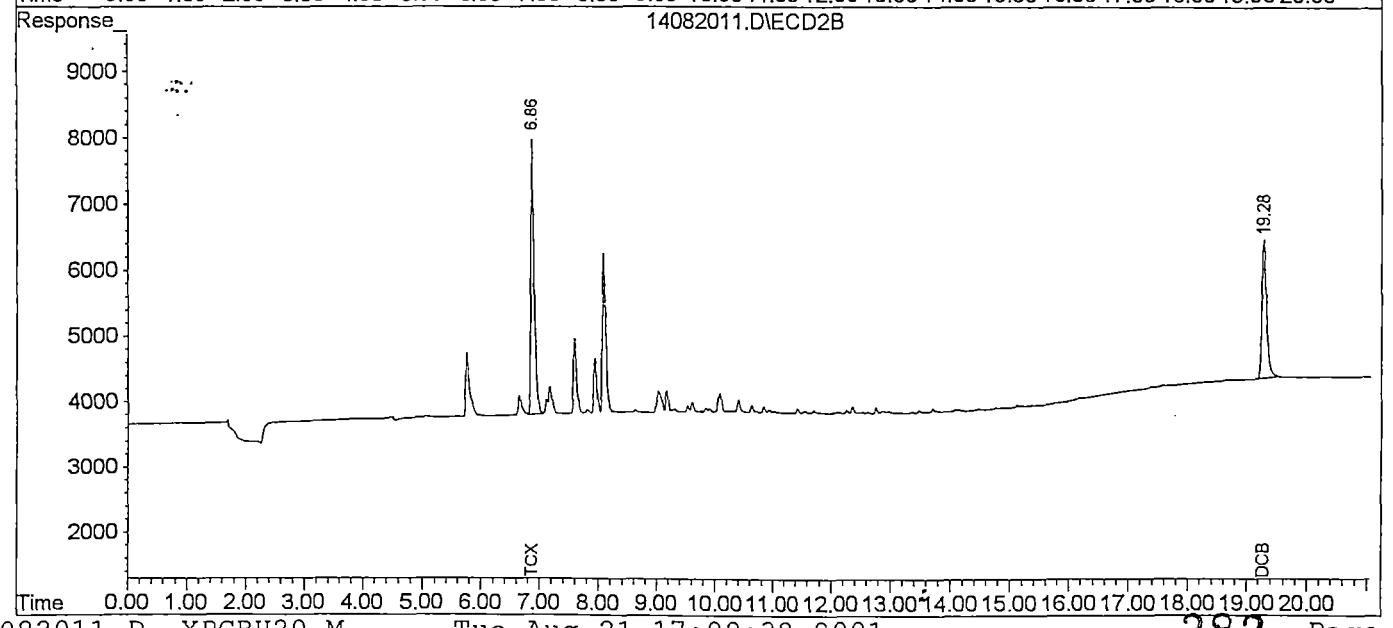
Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082011.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082011.D\ECD2B.CH
Acq On : 20 Aug 2001 18:22 Operator: TLM
Sample : AR1221L3AC Inst : HP_14
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 12:34 2001 Quant Results File: XPCBH20.RES
Quant Time: Aug 21 17:08 2001 Quant Results File: xspcbh20.RES

Pesticide Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001

Multi-Component Method : f:\hpchem\hp\14\data\08_20_01\xspcbh20.m
Title : PCB/TOXAPHENE
Last Update : Tue Aug 07 10:51:36 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

OK 8-24-01





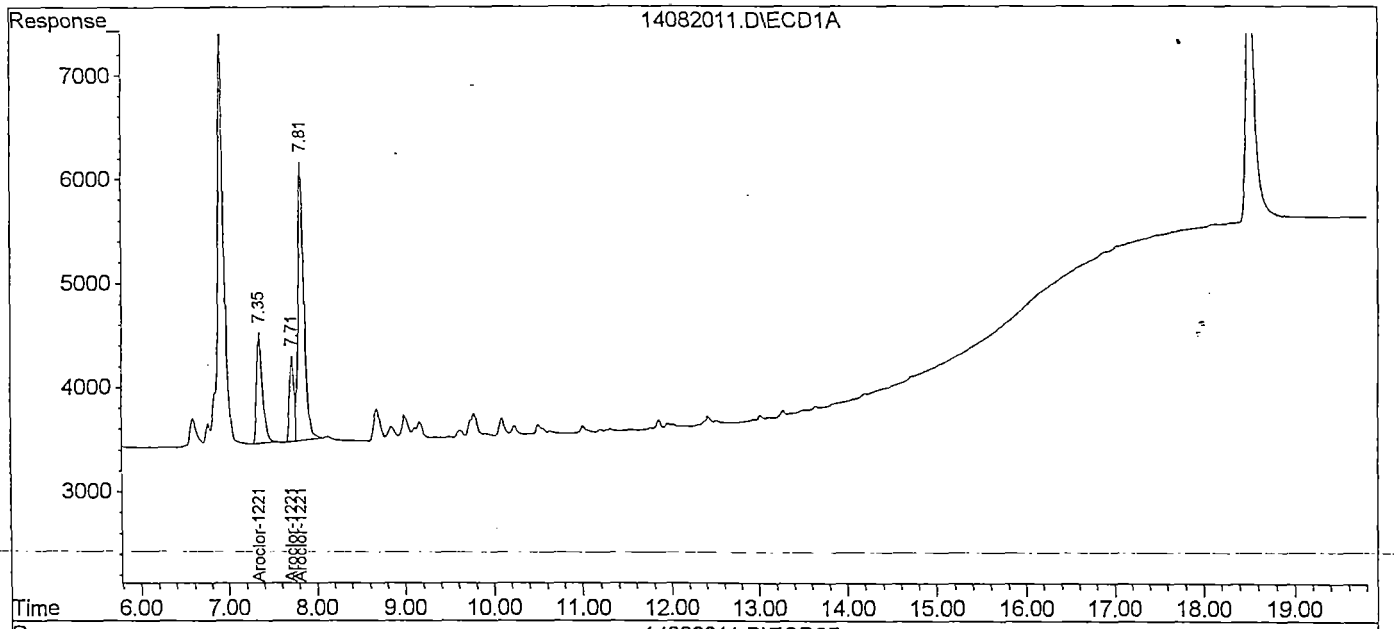
Chromatographic Report

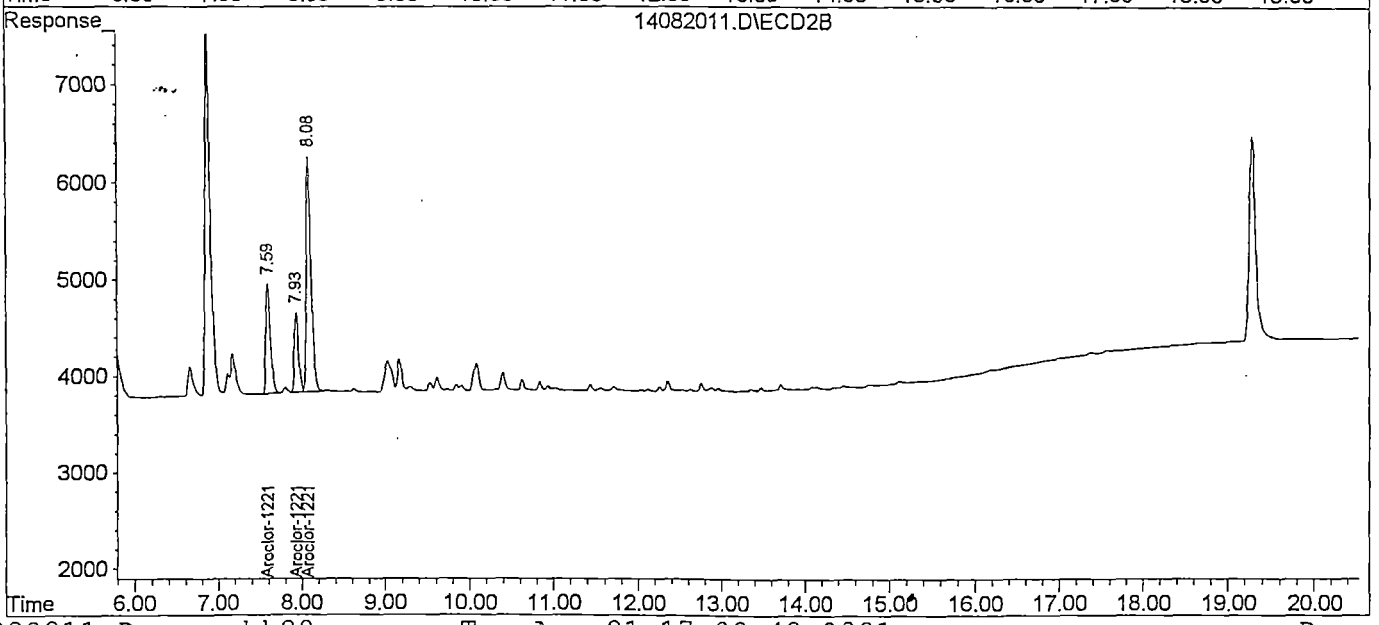
Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082011.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082011.D\ECD2B.CH
Acq On : 20 Aug 2001 18:22 Operator: TLM
Sample : AR1221L3AC Inst : HP_14
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 21 17:08 2001 Quant Results File: xspcbh20.RES
Quant Time: Aug 21 17:08 2001 Quant Results File: xspcbh20.RES

Pesticide Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001

Multi-Component Method : f:\hpchem\hp\14\data\08_20_01\xspcbh20.m
Title : PCB/TOXAPHENE
Last Update : Tue Aug 07 10:51:36 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

OK 8-24-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082011.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082011.D\ECD2B.CH
Acq On : 20 Aug 2001 18:22 Operator: TLM
Sample : AR1221L3AC Inst : HP_14
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 12:34 2001 Quant Results File: XPCBH20.RES
Multi Time: Aug 21 17:08 2001 Quant Results File: xspcbh20.RES

Pesticide Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001

Multi-Component Method : f:\hpchem\hp\14\data\08_20_01\xspcbh20.m
Title : PCB/TOXAPHENE
Last Update : Tue Aug 07 10:51:36 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	197244	169852	19.2	18.1
22)	S DCB	18.51	19.28	154498	104950	15.4	16.3
	Target Compounds:						
	Multi-Component Compounds:						
2)	L2 Aroclor-1221	7.35	7.59	48377	42201	400.0	400.0
3)	L2 Aroclor-1221 {2}	7.72	7.93	29374	29077	400.0	400.0
4)	L2 Aroclor-1221 {3}	7.82	8.08	127200	98935	400.0	400.0
	Sum Aroclor-1221			204950	170213	1200.0	1200.0
	Average Aroclor-1221					400.000	400.000

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

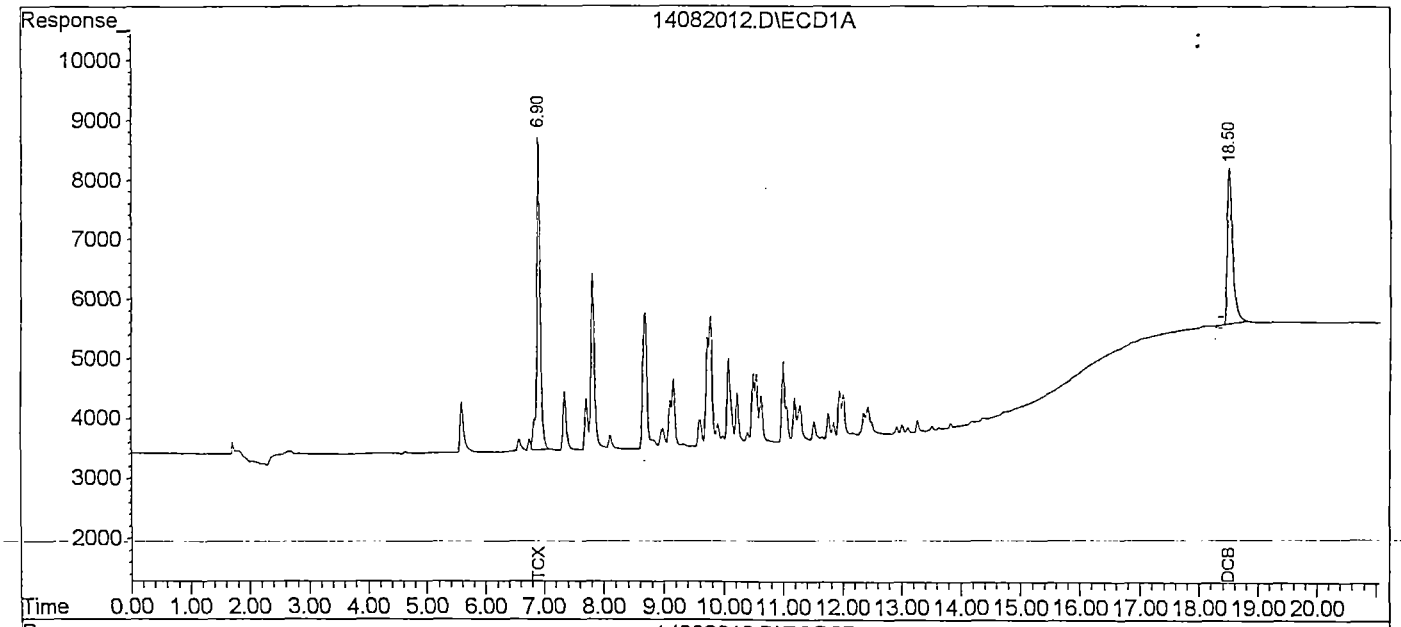
Chromatographic Report

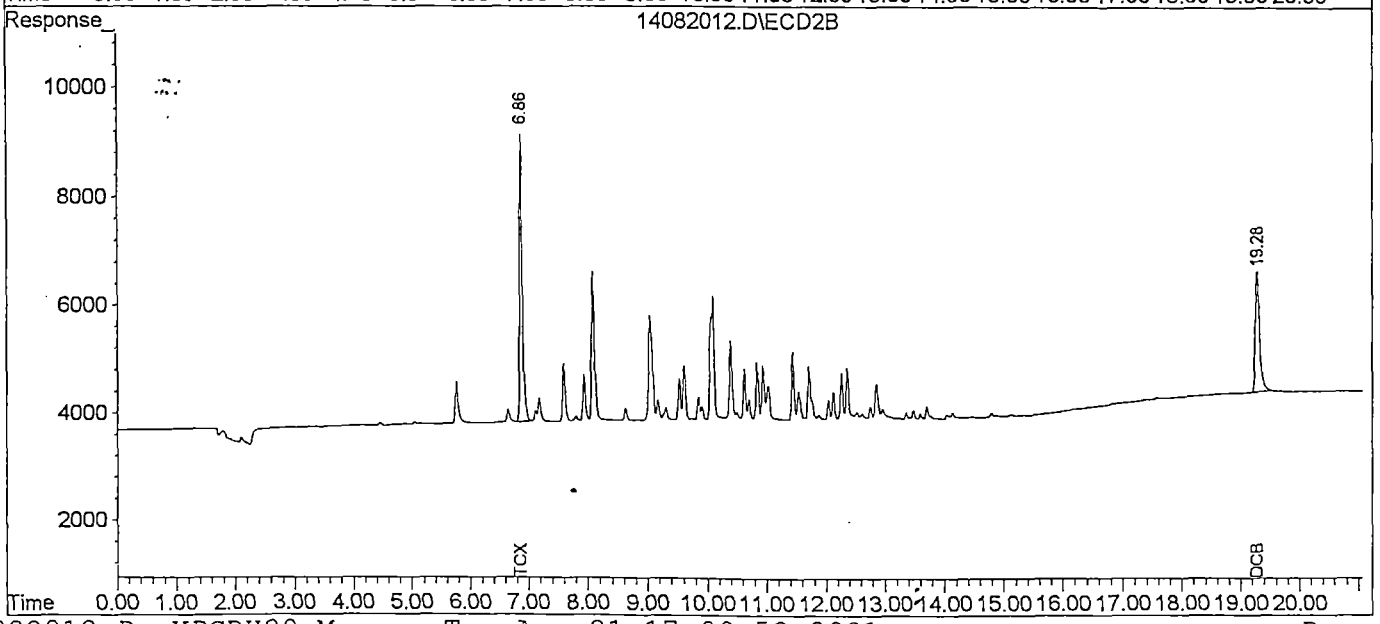
Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082012.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082012.D\ECD2B.CH
Acq On : 20 Aug 2001 18:46 Operator: TLM
Sample : AR1232L3AC Inst : HP_14
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 12:34 2001 Quant Results File: XPCBH20.RES
Quant Time: Aug 21 17:08 2001 Quant Results File: xspcbh20.RES

Pesticide Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001

Multi-Component Method : f:\hpchem\hp\14\data\08_20_01\xspcbh20.m
Title : PCB/TOXAPHENE
Last Update : Tue Aug 07 10:51:36 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

GC 8-24-01 RD



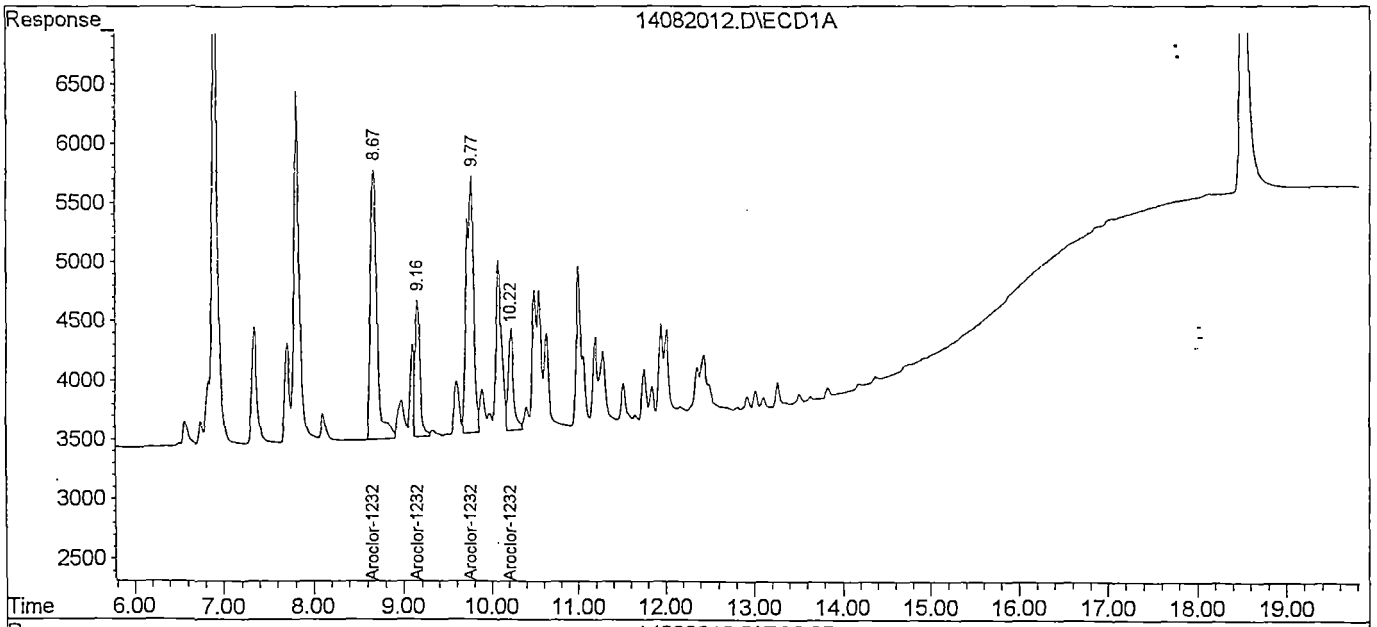


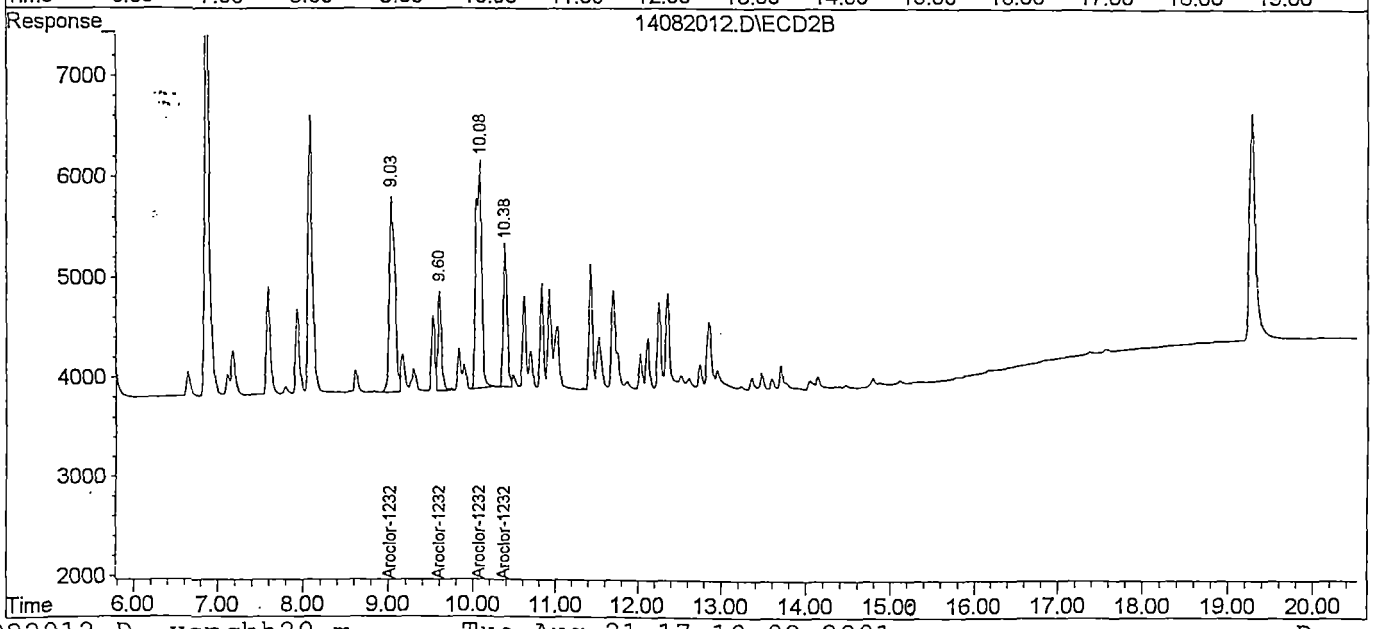
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082012.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082012.D\ECD2B.CH
Acq On : 20 Aug 2001 18:46 Operator: TLM
Sample : AR1232L3AC Inst : HP_14
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 21 17:08 2001 Quant Results File: xspcbh20.RES
Quant Time: Aug 21 17:08 2001 Quant Results File: xspcbh20.RES

Pesticide Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001

Multi-Component Method : f:\hpchem\hp\14\data\08_20_01\xspcbh20.m
Title : PCB/TOXAPHENE
Last Update : Tue Aug 07 10:51:36 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082012.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082012.D\ECD2B.CH
Acq On : 20 Aug 2001 18:46 Operator: TLM
Sample : AR1232L3AC Inst : HP_14
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 12:34 2001 Quant Results File: XPCBH20.RES
Multi Time: Aug 21 17:08 2001 Quant Results File: xspcbh20.RES

Pesticide Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001

Multi-Component Method : f:\hpchem\hp\14\data\08_20_01\xspcbh20.m
Title : PCB/TOXAPHENE
Last Update : Tue Aug 07 10:51:36 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.90	6.86	205070	174889	19.9	18.6
22)	S DCB	18.50	19.28	163424	110845	16.3	17.2
	Target Compounds:						
	Multi-Component Compounds:						
5)	L3 Aroclor-1232	8.67	9.03	115883	88070	400.0	400.0
6)	L3 Aroclor-1232 {2}	9.16	9.60	43977	31671	400.0	400.0
7)	L3 Aroclor-1232 {3}	9.77	10.08	126249	109378	400.0	400.0
8)	L3 Aroclor-1232 {4}	10.22	10.38	33683	47202	400.0	400.0
	Sum Aroclor-1232			319791	276322	1600.0	1600.0
	Average Aroclor-1232					400.000	400.000

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

Response Factor Report HP_14

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

OK
8-27-01

Calibration Files
L1 =14082013.D L2 =14082014.D L3 =14082015.D
L4 =14082016.D L5 =14082017.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
7) Aroclor-1242	272.2	264.0	270.9	254.4	236.2	259.5	5.71
8) Aroclor-1242 {2}	131.1	153.5	147.6	142.3	136.6	142.2	6.19
9) Aroclor-1242 {3}	151.2	175.7	170.7	159.2	147.8	160.9	7.49
10) Aroclor-1242 {4}	114.9	114.2	117.2	112.4	107.1	113.1	3.33
11) Aroclor-1242 {5}	135.5	150.4	148.8	145.5	142.3	144.5	4.10
Average %RSD							

Signal #2 Calibration Files
L1 =14082013.D L2 =14082014.D L3 =14082015.D
L4 =14082016.D L5 =14082017.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
30) Aroclor-1242 #2	214.6	215.5	205.5	184.9	162.4	196.6	11.57
31) Aroclor-1242 {2} #2	106.4	103.4	106.9	98.7	88.6	100.8	7.51
32) Aroclor-1242 {3} #2	150.2	141.6	139.6	124.7	108.9	133.0	12.26
33) Aroclor-1242 {4} #2	174.1	158.1	158.2	142.2	127.2	151.9	11.76
34) Aroclor-1242 {5} #2	88.6	91.0	97.8	90.9	84.3	90.5	5.44
Average %RSD							

(#) = Out of Range

XPCBH20.M Sat Aug 25 13:51:56 2001

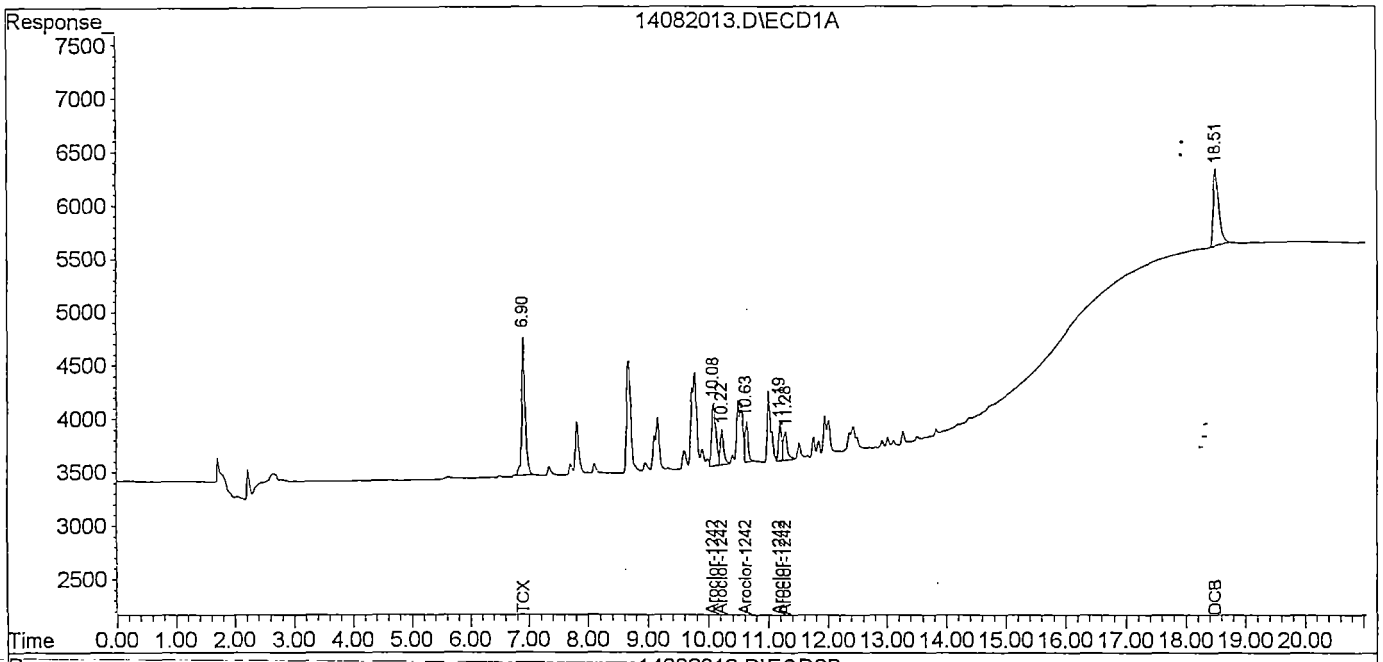
Chromatographic Report

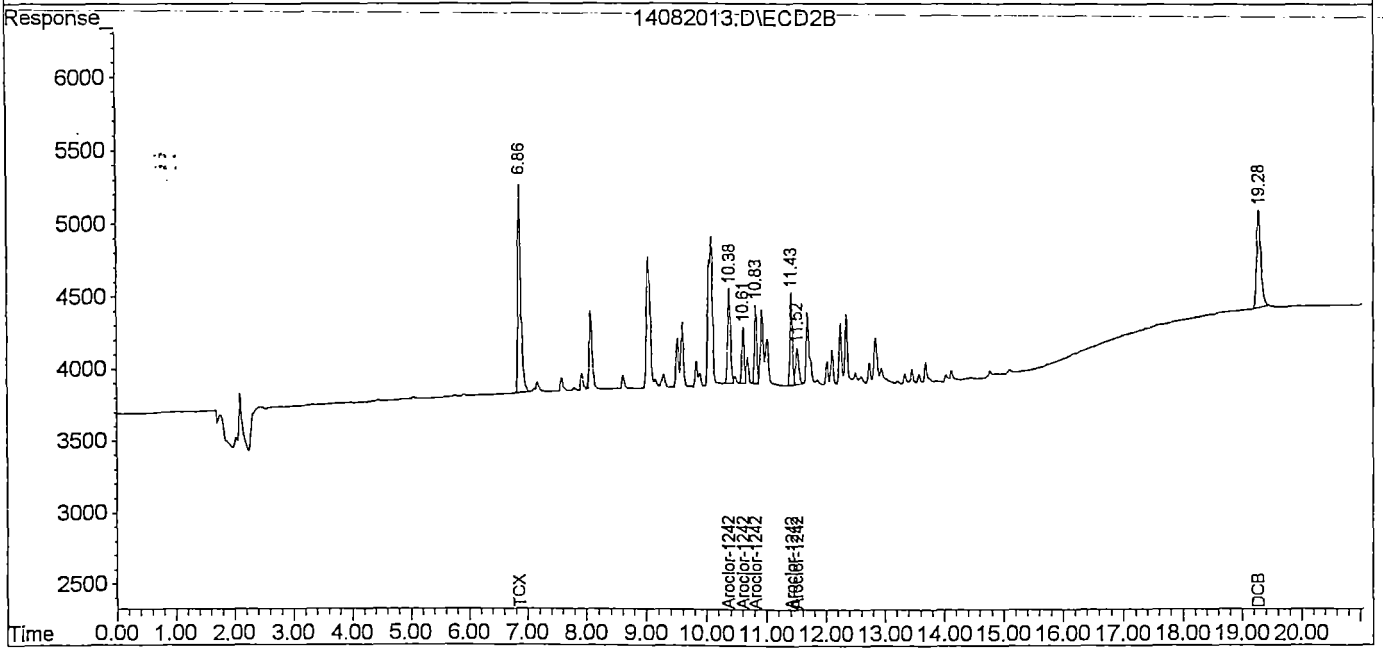
Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082013.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082013.D\ECD2B.CH
Acq On : 20 Aug 2001 19:10 Operator: TLM
Sample : AR1242L1AC Inst : HP_14
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 16:38 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_18_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

OK 8-24-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082013.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082013.D\ECD2B.CH
Acq On : 20 Aug 2001 19:10 Operator: TLM
Sample : AR1242L1AC Inst : HP_14
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 16:38 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_18_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	52014	50925	5.056	5.417
22)	S DCB	18.51	19.28	45304	32945	4.507	5.104
	Target Compounds:						
7)	L4 Aroclor-1242	10.08	10.38	27216	21459	104.9	111.0
8)	L4 Aroclor-1242 {2}	10.22	10.62	13114	10639	92.2	106.5
9)	L4 Aroclor-1242 {3}	10.64	10.83	15123	15023	94.0	113.5
10)	L4 Aroclor-1242 {4}	11.20	11.43	11488	17412	101.8	114.7
11)	L4 Aroclor-1242 {5}	11.29	11.52	13548	8857	93.7	97.9
	Sum Aroclor-1242			80489	73390	486.6	543.6
	Average Aroclor-1242					97.314	108.712

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

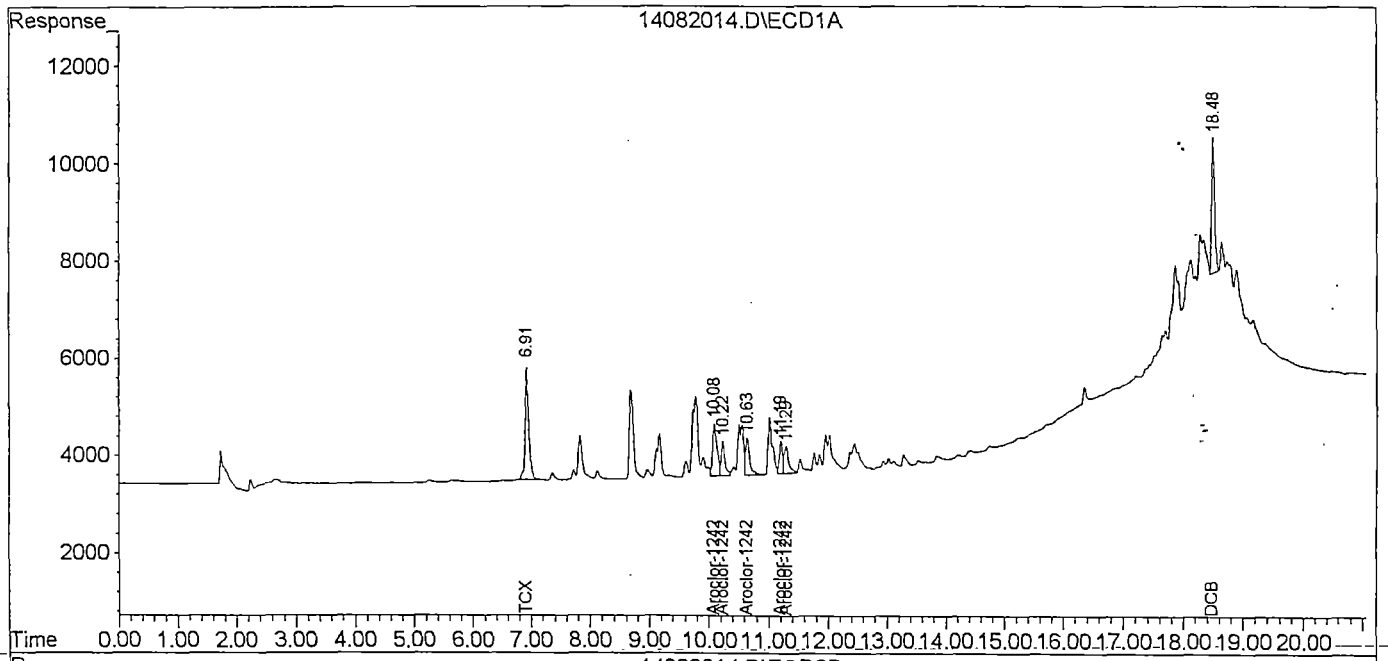
Chromatographic Report

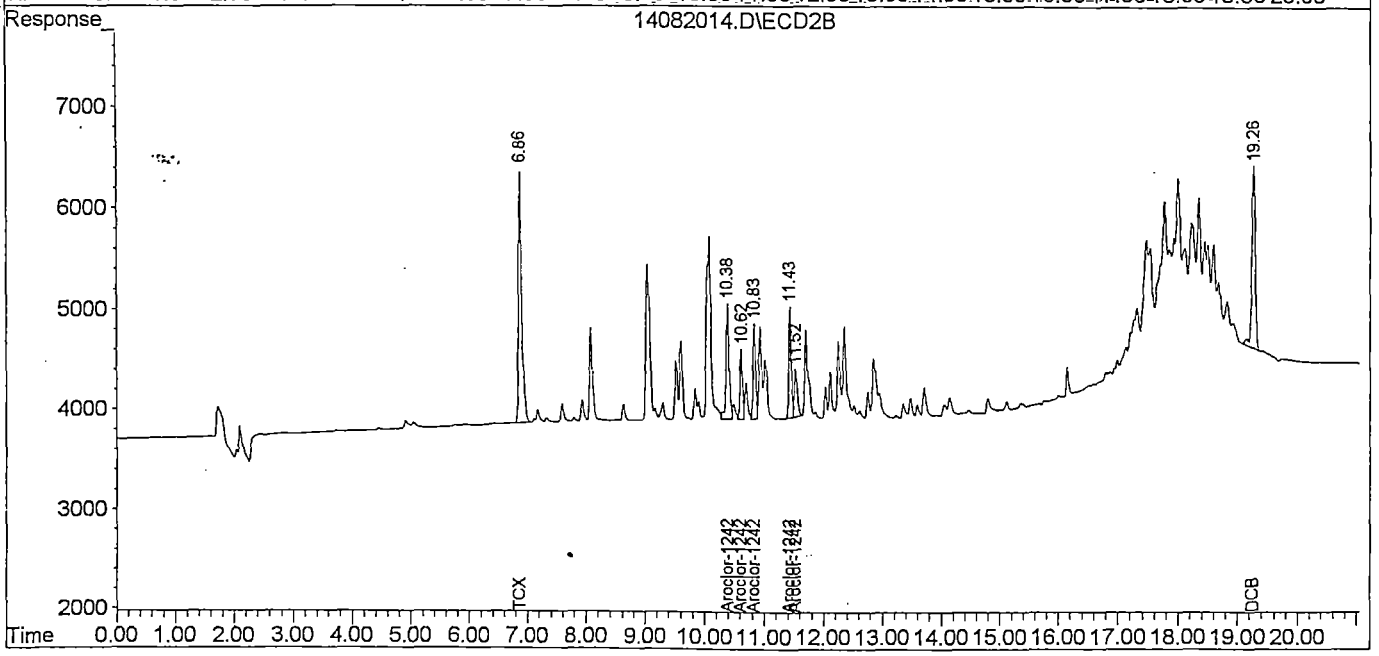
Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082014.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082014.D\ECD2B.CH
Acq On : 20 Aug 2001 19:34 Operator: TLM
Sample : AR1242L2AC Inst : HP_14
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 16:38 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

OK 8-24-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082014.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082014.D\ECD2B.CH
Acq On : 20 Aug 2001 19:34 Operator: TLM
Sample : AR1242L2AC Inst : HP_14
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 16:38 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	98505	94616	9.749	10.3
22)	S DCB	18.48f	19.26	95252	66901	9.864	10.7
	Target Compounds:						
7)	L4 Aroclor-1242	10.08	10.39	52801	43104	203.5	223.0
8)	L4 Aroclor-1242 {2}	10.22	10.62	30694	20684	215.8	206.8
9)	L4 Aroclor-1242 {3}	10.64	10.83	35134	28328	218.3	213.7
10)	L4 Aroclor-1242 {4}	11.20	11.43	22836	31619	202.3	208.2
11)	L4 Aroclor-1242 {5}	11.29	11.52	30073	18206	207.9	201.3
	Sum Aroclor-1242			171539	141941	1047.8	1053.1
	Average Aroclor-1242					209.561	210.616

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

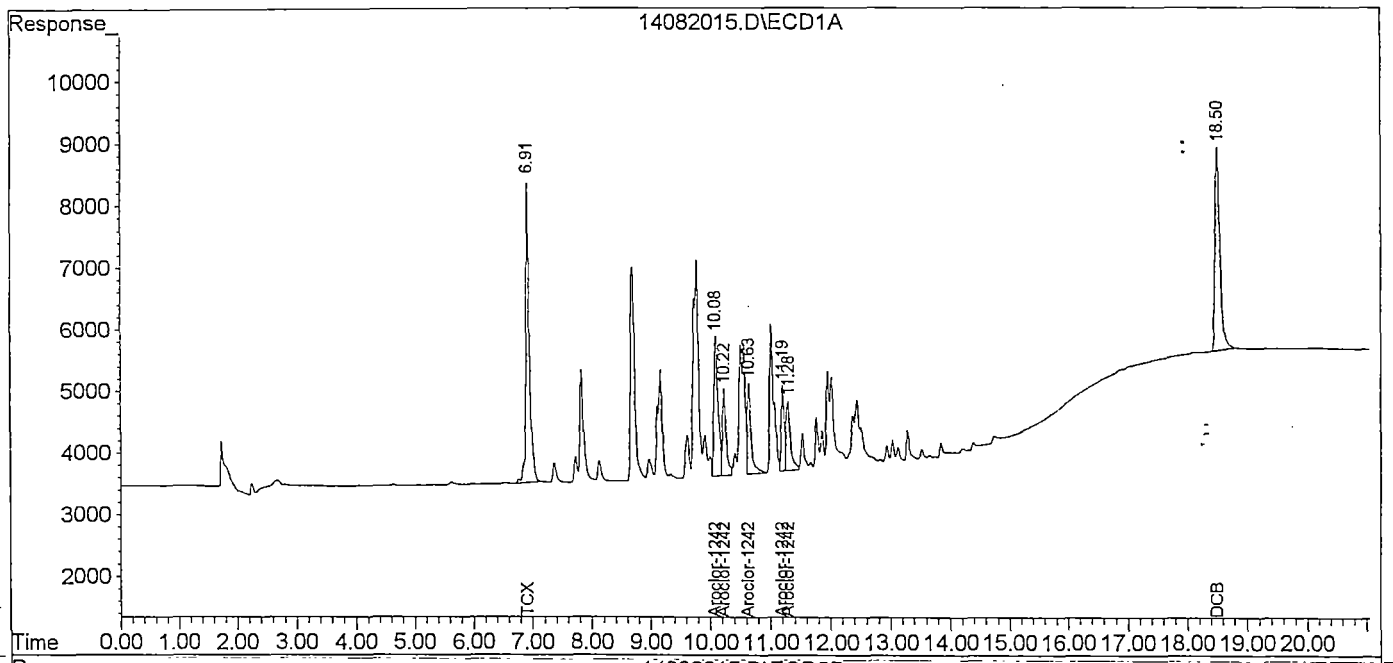
Chromatographic Report

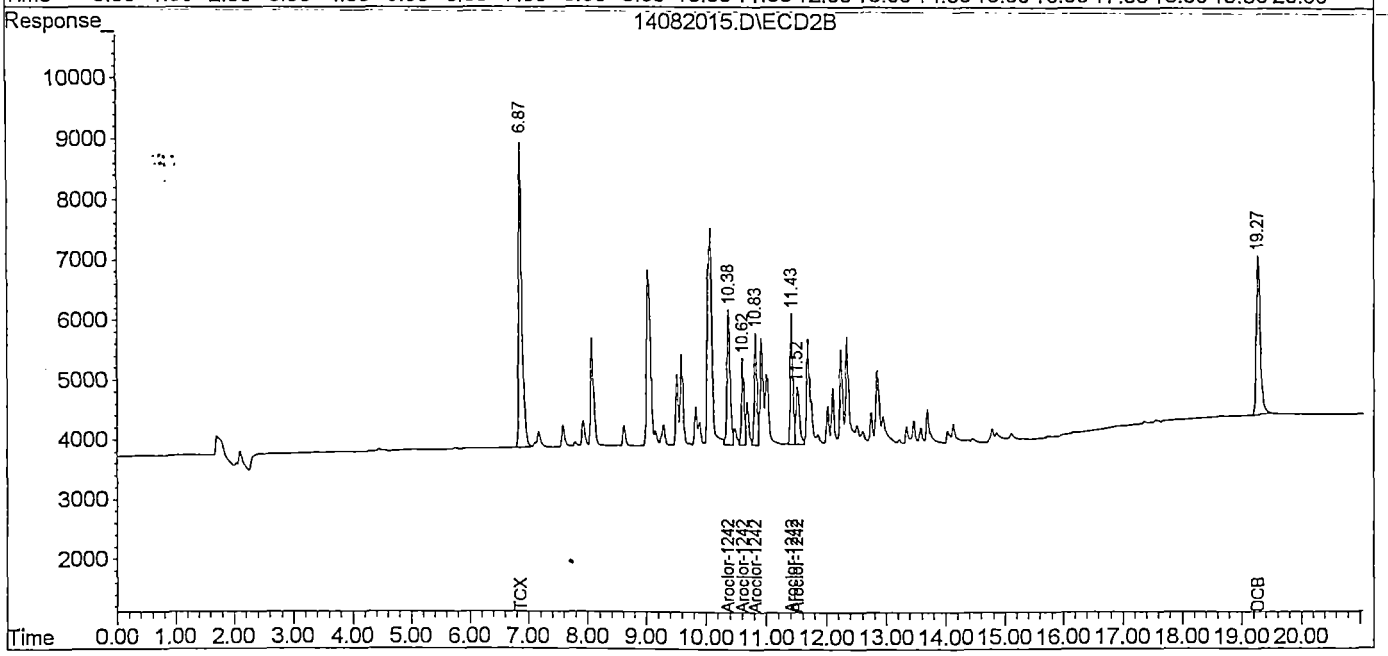
Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082015.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082015.D\ECD2B.CH
Acq On : 20 Aug 2001 19:58 Operator: TLM
Sample : AR1242L3AC Inst : HP_14
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 16:39 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

OK 8-24-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082015.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082015.D\ECD2B.CH
Acq On : 20 Aug 2001 19:58 Operator: TLM
Sample : AR1242L3AC Inst : HP_14
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 16:39 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	205543	186117	20.2	20.1
22)	S DCB	18.50	19.28	184019	121641	19.2	19.6
	Target Compounds:						
7)	L4 Aroclor-1242	10.08	10.39	108368	82203	417.6	418.6
8)	L4 Aroclor-1242 {2}	10.22	10.62	59027	42769	415.1	424.7
9)	L4 Aroclor-1242 {3}	10.64	10.83	68268	55855	424.2	420.2
10)	L4 Aroclor-1242 {4}	11.20	11.43	46867	63269	414.8	416.7
11)	L4 Aroclor-1242 {5}	11.29	11.52	59525	39138	411.6	432.7
	Sum Aroclor-1242			342055	283234	2083.3	2113.0
	Average Aroclor-1242					416.658	422.600

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

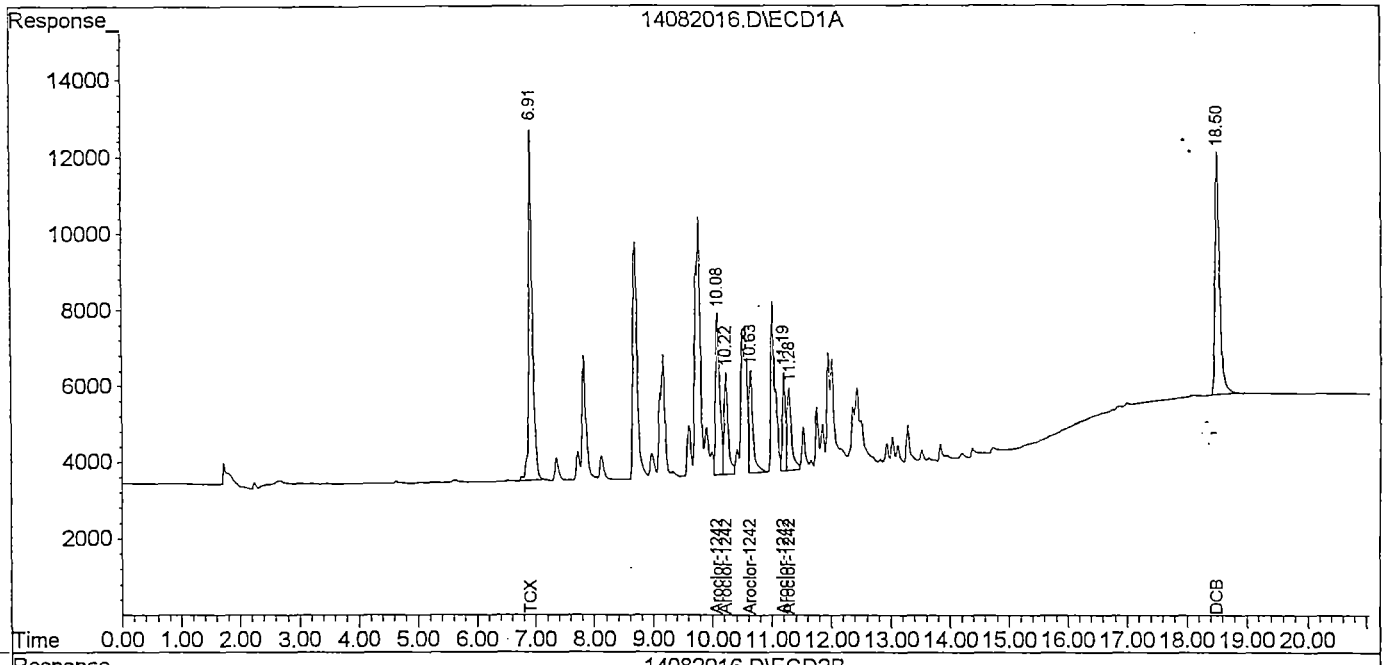
Chromatographic Report

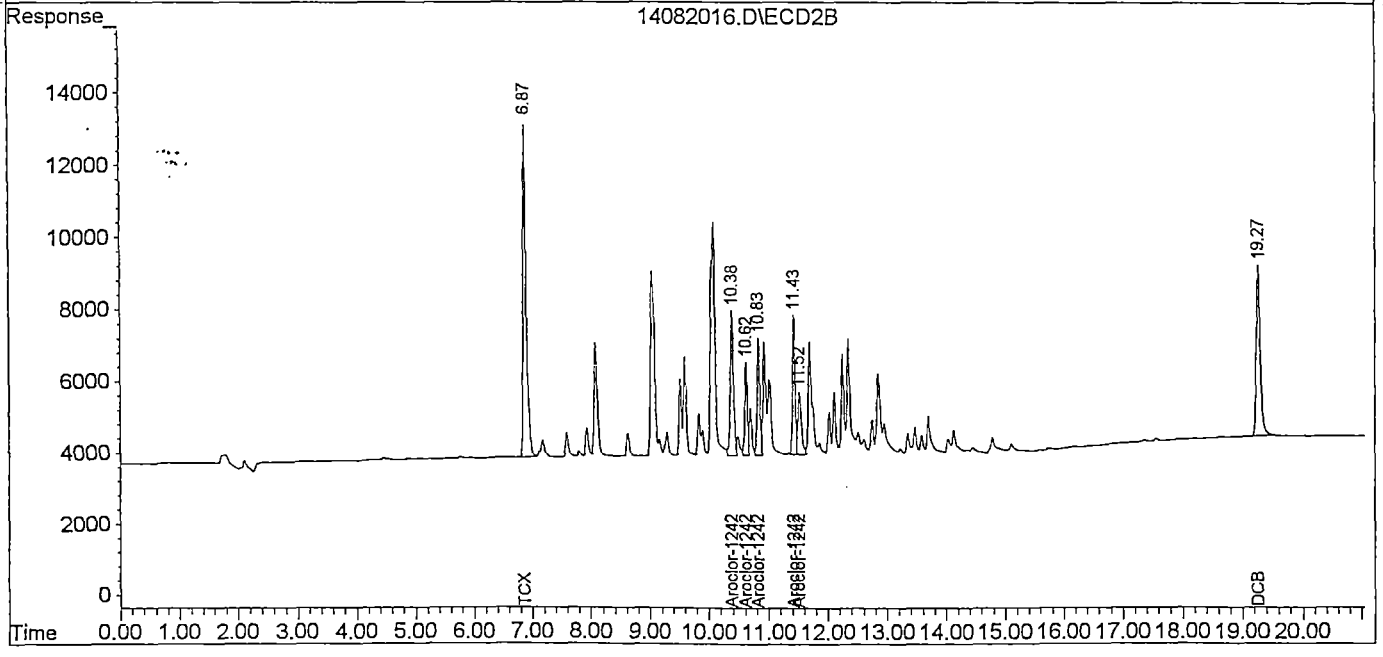
Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082016.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082016.D\ECD2B.CH
Acq On : 20 Aug 2001 20:23 Operator: TLM
Sample : AR1242L4AC Inst : HP_14
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 16:39 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

OK 8-24-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082016.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082016.D\ECD2B.CH
Acq On : 20 Aug 2001 20:23 Operator: TLM
Sample : AR1242L4AC Inst : HP_14
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 16:39 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	405793	354626	39.7	38.0
22)	S DCB	18.50	19.28	349116	216165	37.4	35.4
	Target Compounds:						
7)	L4 Aroclor-1242	10.08	10.39	203532	147940	784.2	752.8
8)	L4 Aroclor-1242 {2}	10.22	10.62	113842	78931	800.5	783.4
9)	L4 Aroclor-1242 {3}	10.64	10.83	127374	99731	791.5	749.7
10)	L4 Aroclor-1242 {4}	11.20	11.43	89910	113757	794.6	748.7
11)	L4 Aroclor-1242 {5}	11.29	11.52	116369	72727	805.4	803.1
	Sum Aroclor-1242			651027	513086	3976.3	3837.6
	Average Aroclor-1242					795.250	767.524

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

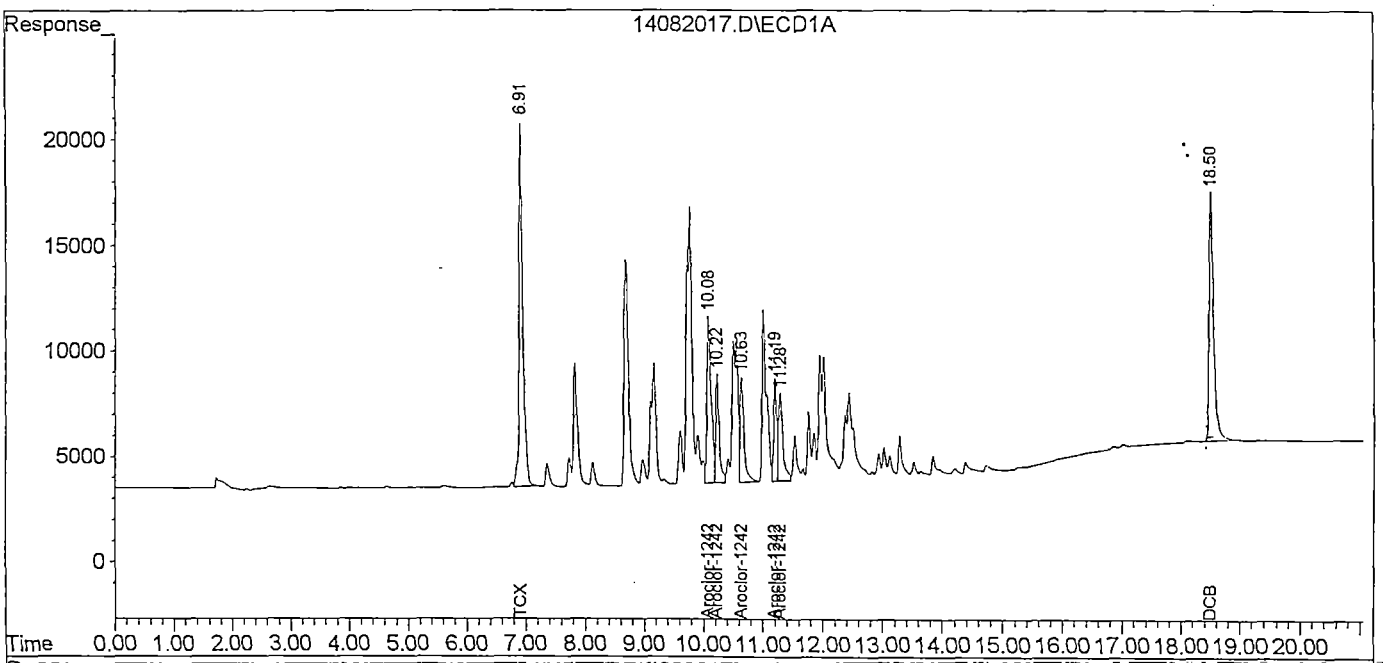
Chromatographic Report

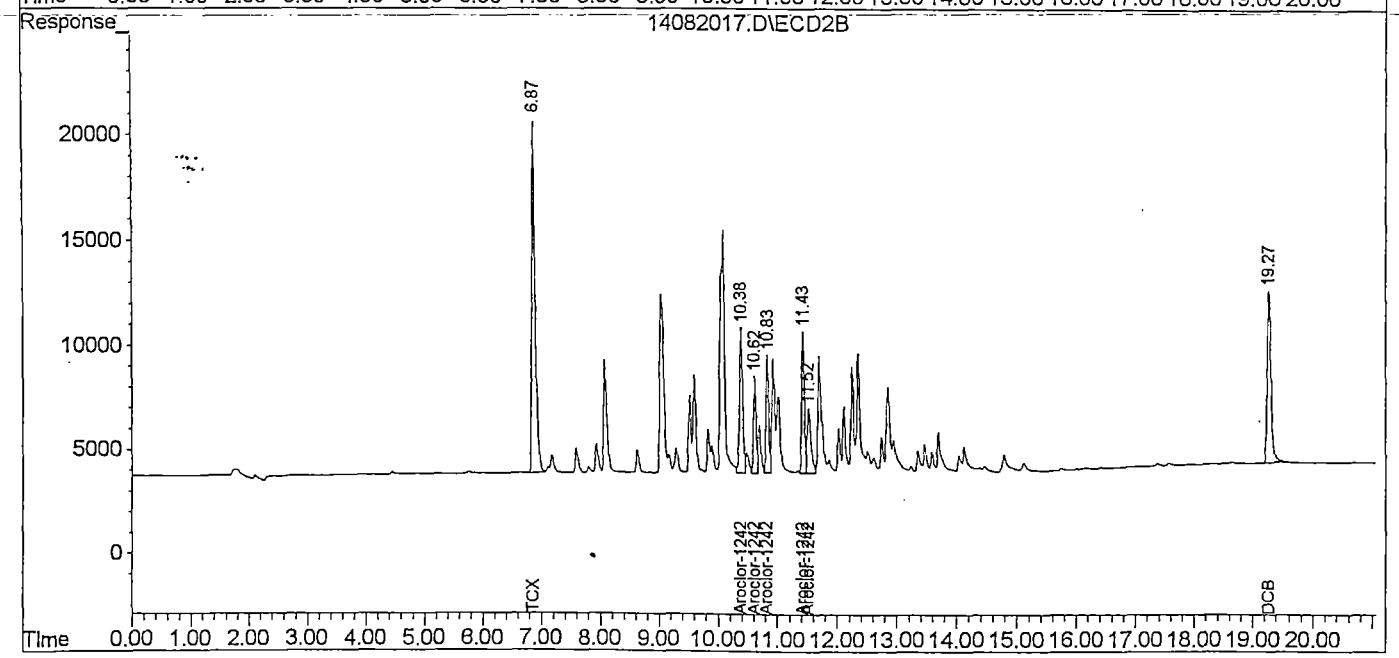
Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082017.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082017.D\ECD2B.CH
Acq On : 20 Aug 2001 20:47 Operator: TLM
Sample : AR1242L5AC Inst : HP_14
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 12:22 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

OK 8-27-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082017.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082017.D\ECD2B.CH
Acq On : 20 Aug 2001 20:47 Operator: TLM
Sample : AR1242L5AC Inst : HP_14
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 12:22 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	771929	652787	75.5	70.4
22)	S DCB	18.50	19.28	655085	379628	75.0	65.5
	Target Compounds:						
7)	L4 Aroclor-1242	10.08	10.39	377974	259776	1428.8	1322.4 E
8)	L4 Aroclor-1242 {2}	10.22	10.62	218532	141763	1520.0 E	1388.1
9)	L4 Aroclor-1242 {3}	10.64	10.83	236503	174314	1458.9 E	1297.2 E
10)	L4 Aroclor-1242 {4}	11.20	11.43	171420	203445	1480.5	1315.5
11)	L4 Aroclor-1242 {5}	11.29	11.52	227673	134821	1562.8 E	1471.1
	Sum Aroclor-1242			1232102	914119	7450.9	6794.4
	Average Aroclor-1242					1490.186	1358.872

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

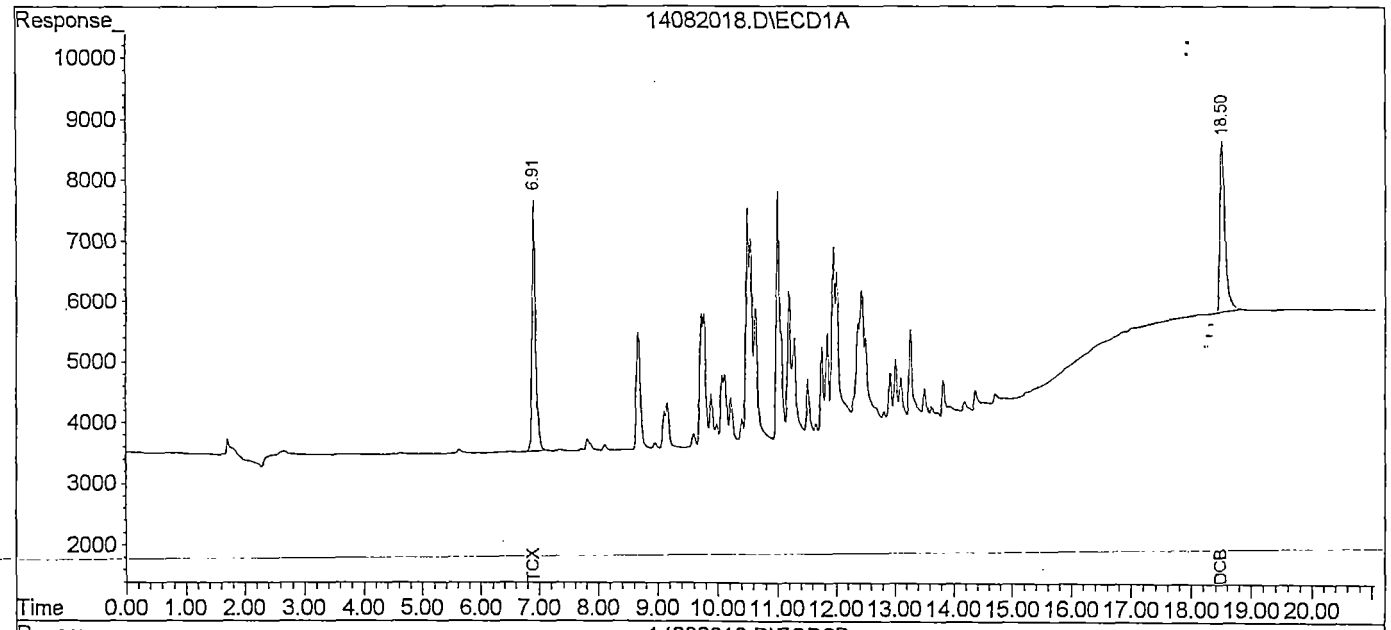
Chromatographic Report

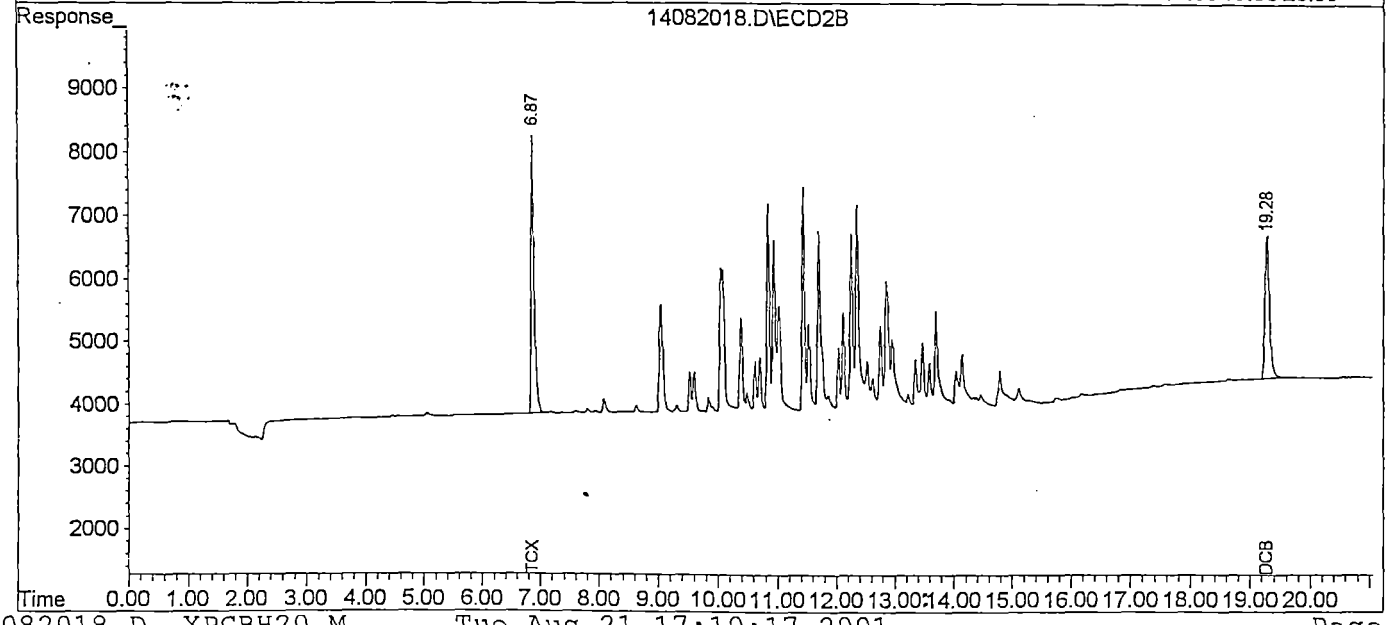
Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082018.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082018.D\ECD2B.CH
Acq On : 20 Aug 2001 21:11 Operator: TLM
Sample : AR1248L3AC Inst : HP_14
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 12:34 2001 Quant Results File: XPCBH20.RES
Quant Time: Aug 21 17:08 2001 Quant Results File: xspcbh20.RES

Pesticide Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001

Multi-Component Method : f:\hpchem\hp\14\data\08_20_01\xspcbh20.m
Title : PCB/TOXAPHENE
Last Update : Tue Aug 07 10:51:36 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

OK 8-24-01





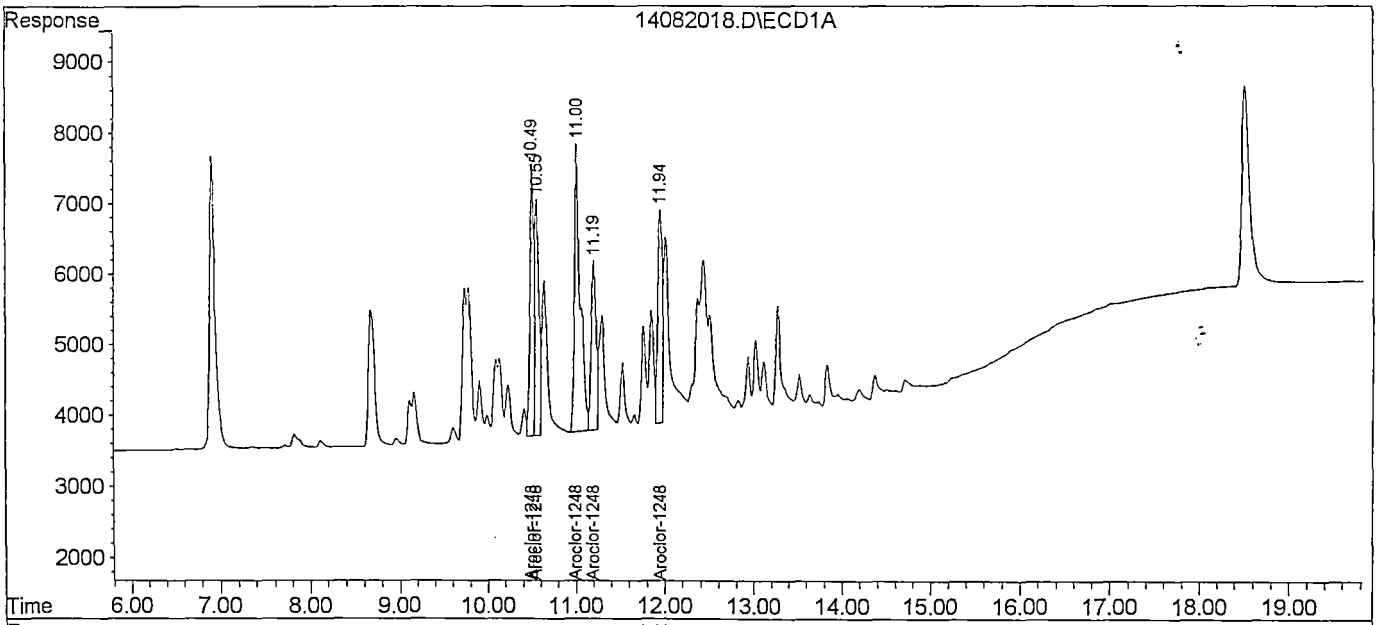
Chromatographic Report

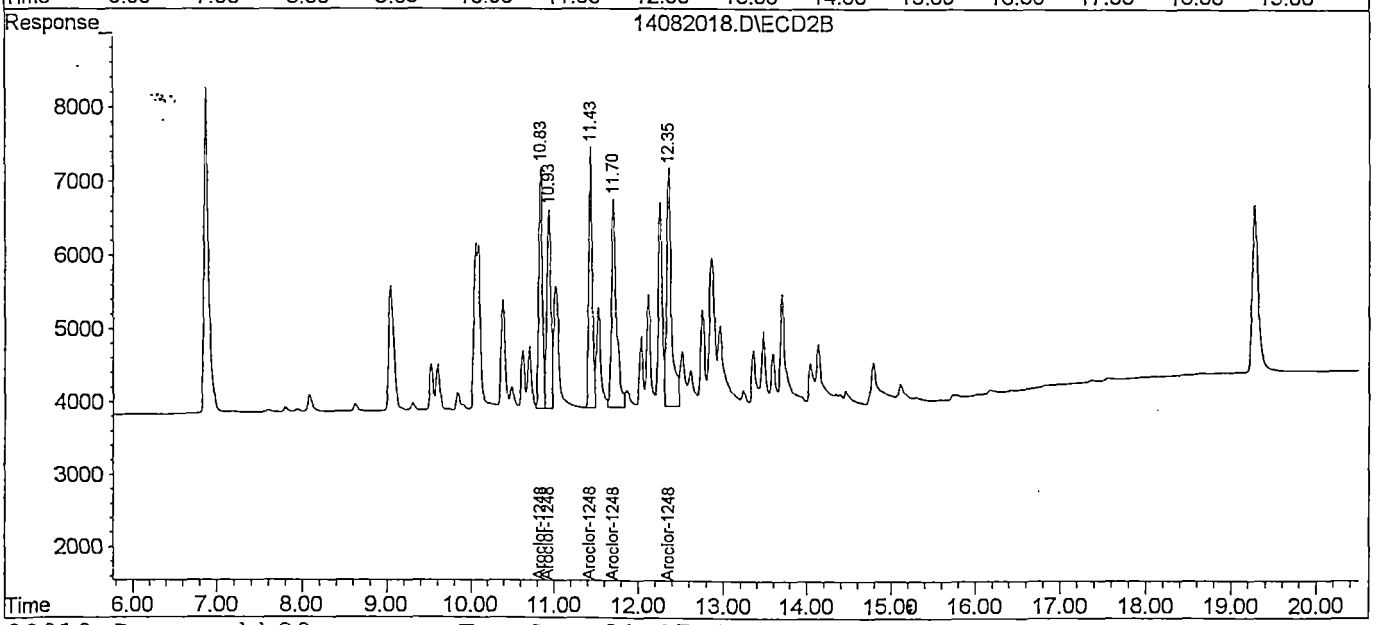
Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082018.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082018.D\ECD2B.CH
Acq On : 20 Aug 2001 21:11 Operator: TLM
Sample : AR1248L3AC Inst : HP_14
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 21 17:08 2001 Quant Results File: xspcbh20.RES
Quant Time: Aug 21 17:08 2001 Quant Results File: xspcbh20.RES

Pesticide Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001

Multi-Component Method : f:\hpchem\hp\14\data\08_20_01\xspcbh20.m
Title : PCB/TOXAPHENE
Last Update : Tue Aug 07 10:51:36 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

OK 8-24-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082018.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082018.D\ECD2B.CH
Acq On : 20 Aug 2001 21:11 Operator: TLM
Sample : AR1248L3AC Inst : HP_14
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 12:34 2001 Quant Results File: XPCBH20.RES
Multi Time: Aug 21 17:08 2001 Quant Results File: xspcbh20.RES

Pesticide Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001

Multi-Component Method : f:\hpchem\hp\14\data\08_20_01\xspcbh20.m
Title : PCB/TOXAPHENE
Last Update : Tue Aug 07 10:51:36 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	168726	162829	16.4	17.3
22)	S DCB	18.50	19.28	169071	107958	16.8	16.7
	Target Compounds:						
	Multi-Component Compounds:						
14)	L5 Aroclor-1248	10.50	10.83	118037	98012	400.0	400.0
15)	L5 Aroclor-1248 {2}	10.55	10.93	112496	87750	400.0	400.0
16)	L5 Aroclor-1248 {3}	11.00	11.43	188449	102435	400.0	400.0
17)	L5 Aroclor-1248 {4}	11.20	11.70	85060	116129	400.0	400.0
18)	L5 Aroclor-1248 {5}	11.95	12.35	102538	129195	400.0	400.0
	Sum Aroclor-1248			606579	533522	2000.0	2000.0
	Average Aroclor-1248					400.000	400.000

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

Response Factor Report HP_14

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

OK 8.27.01

Calibration Files
L1 =14082019.D L2 =14082020.D L3 =14082021.D
L4 =14082022.D L5 =14082023.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
12) Aroclor-1254	373.4	418.8	402.6	408.0	352.1	391.0	7.03
13) Aroclor-1254 {2}	535.8	625.8	616.8	627.8	556.2	592.5	7.30
14) Aroclor-1254 {3}	224.0	300.6	311.6	324.8	302.4	292.7	13.52
15) Aroclor-1254 {4}	193.6	284.1	302.0	296.9	267.5	268.8	16.41
16) Aroclor-1254 {5}	298.5	466.4	481.3	451.4	407.7	421.1	17.54
Average %RSD							

Signal #2 Calibration Files
L1 =14082019.D L2 =14082020.D L3 =14082021.D
L4 =14082022.D L5 =14082023.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
35) Aroclor-1254 #2	343.1	380.6	346.8	319.9	263.8	330.8	13.09
36) Aroclor-1254 {2} #2	327.2	365.8	338.9	311.5	261.4	321.0	12.07
37) Aroclor-1254 {3} #2	199.6	247.5	231.5	217.9	186.5	216.6	11.25
38) Aroclor-1254 {4} #2	185.5	222.8	214.4	202.1	173.8	199.7	10.10
39) Aroclor-1254 {5} #2	222.1	272.0	260.2	224.2	185.8	232.9	14.69
Average %RSD							

(#) = Out of Range

XPCBH20.M Sat Aug 25 13:45:40 2001

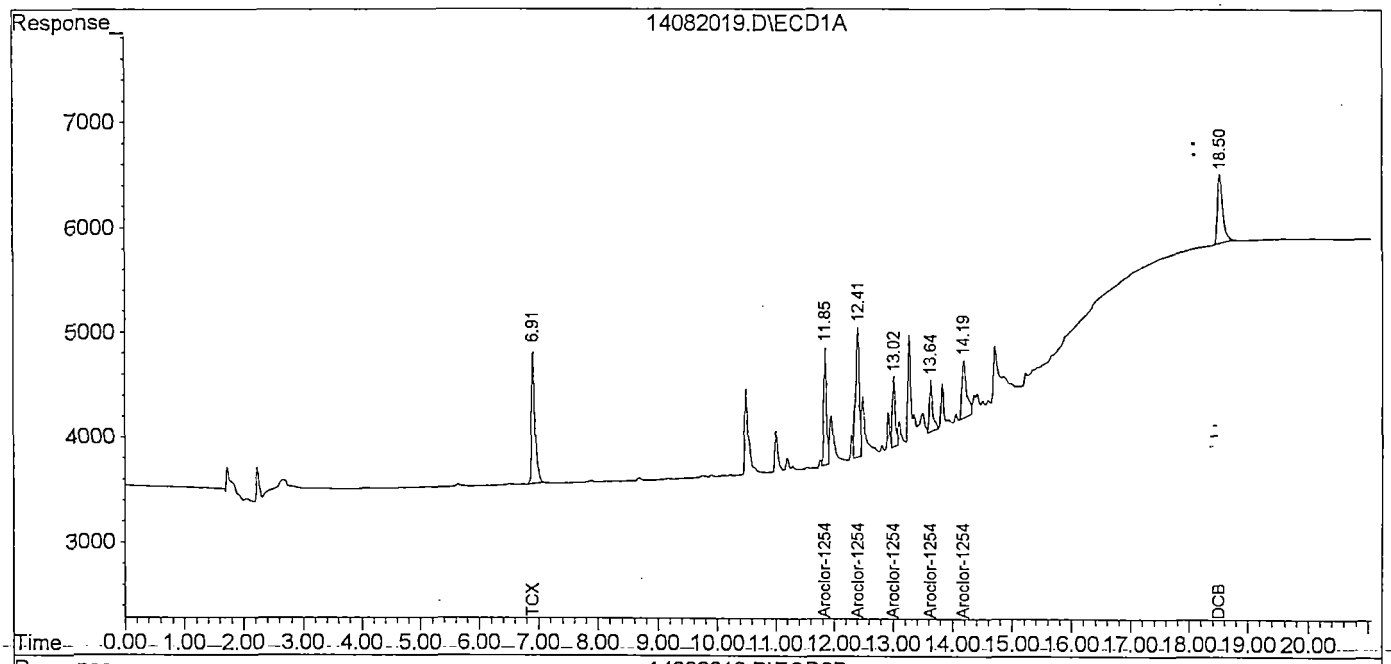
Chromatographic Report

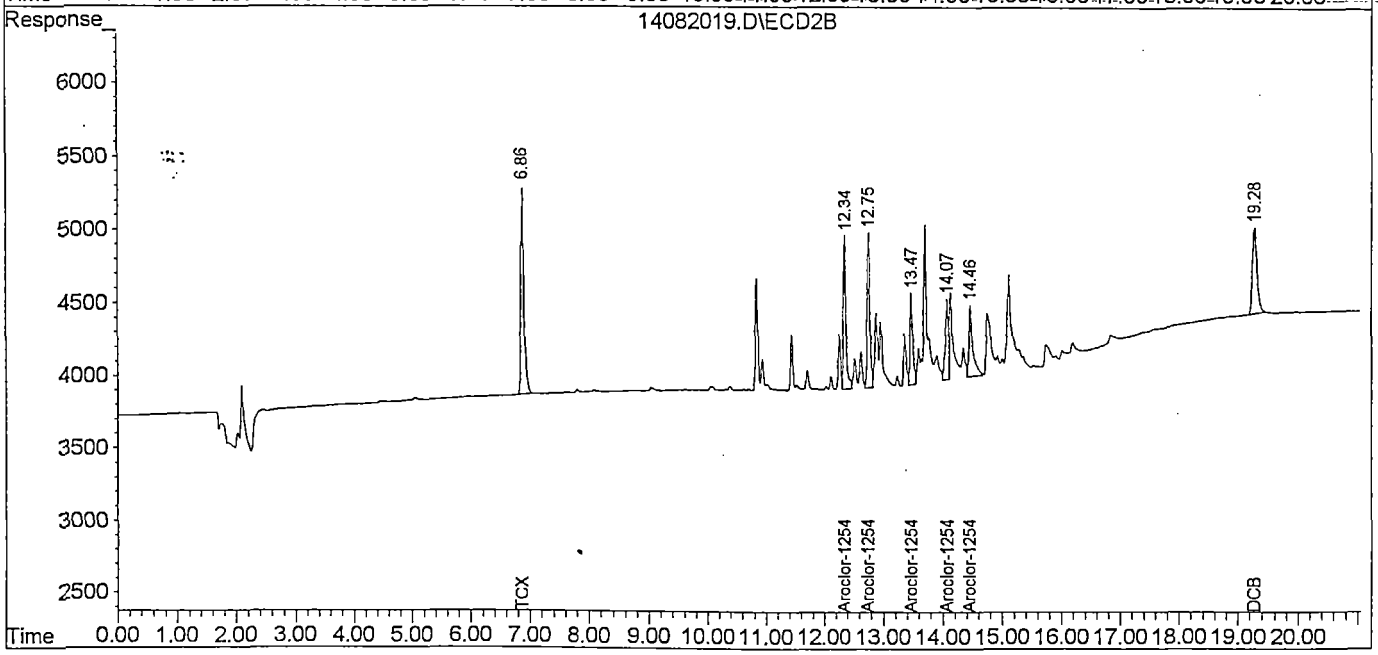
Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082019.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082019.D\ECD2B.CH
Acq On : 20 Aug 2001 21:35 Operator: TLM
Sample : AR1254L1AC Inst : HP_14
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 13:59 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

OK
8-27-01 DA

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082019.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082019.D\ECD2B.CH
Acq On : 20 Aug 2001 21:35 Operator: TLM
Sample : AR1254L1AC Inst : HP_14
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 13:59 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	6.91	6.87	50045	51050	4.865	5.430	
22)	S DCB	18.51	19.28	41345	29095	4.104	4.503	
	Target Compounds:							
12)	L6 Aroclor-1254	11.85	12.35	37339	34305	95.5	103.7	
13)	L6 Aroclor-1254 {2}	12.41	12.75	53579	32723	90.4	101.9	
14)	L6 Aroclor-1254 {3}	13.02	13.47	22399	19960	76.5	92.2	
15)	L6 Aroclor-1254 {4}	13.64	14.08	19359	18552	72.0	92.9	#
16)	L6 Aroclor-1254 {5}	14.19	14.46	29846	22208	70.9	95.4	#
	Sum Aroclor-1254			162522	127748	405.4	486.0	
	Average Aroclor-1254					81.072	97.209	

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

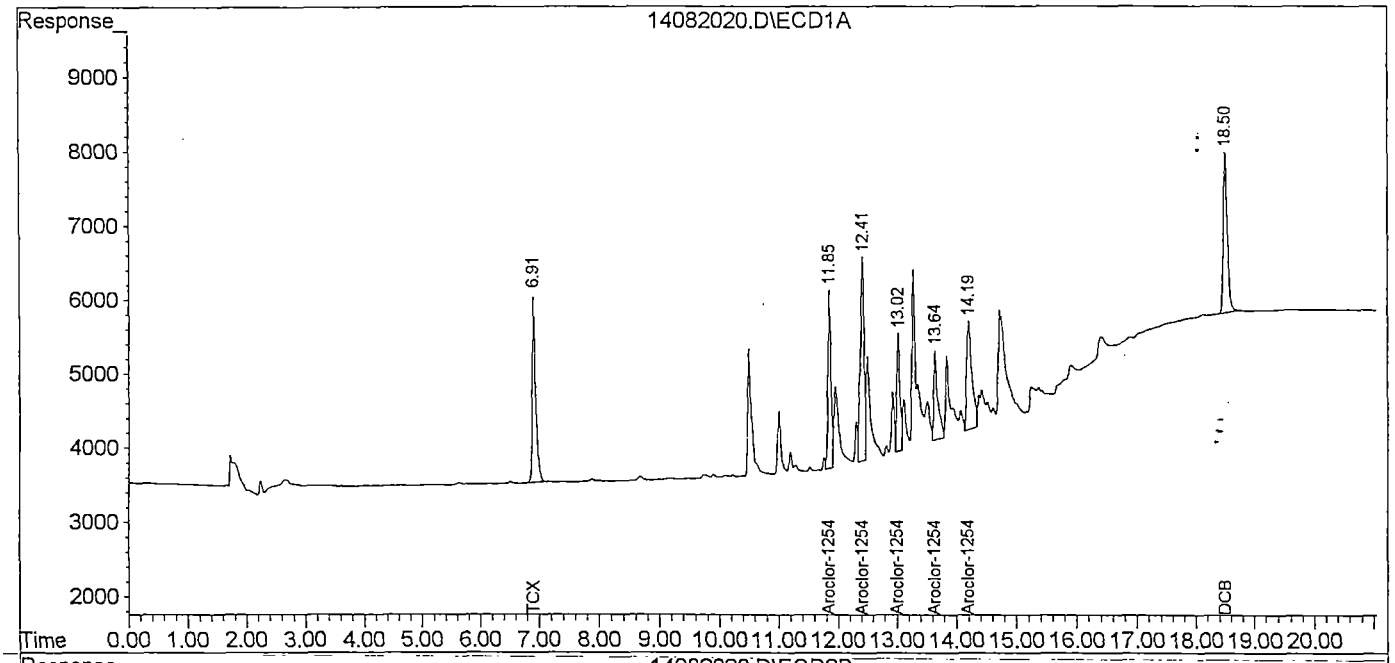
Chromatographic Report

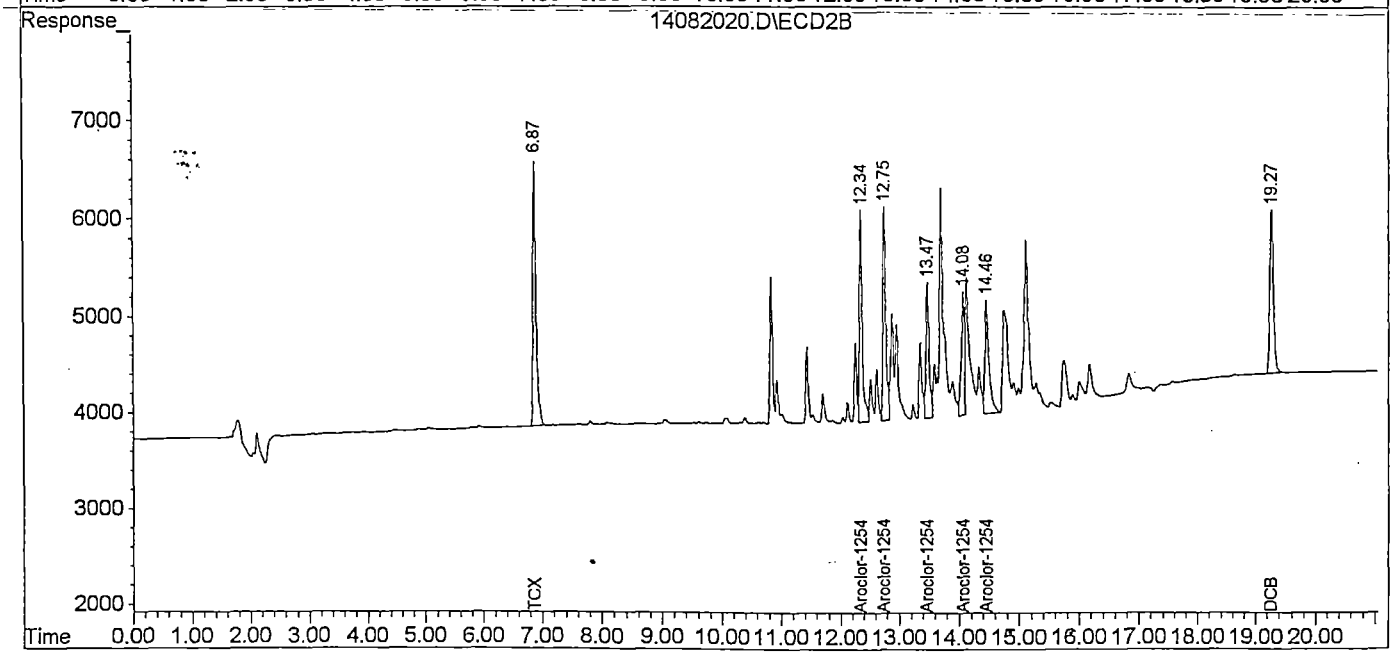
Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082020.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082020.D\ECD2B.CH
Acq On : 20 Aug 2001 21:59 Operator: TLM
Sample : AR1254L2AC Inst : HP_14
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 14:00 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

OK 8-27-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082020.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082020.D\ECD2B.CH
Acq On : 20 Aug 2001 21:59 Operator: TLM
Sample : AR1254L2AC Inst : HP_14
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 14:00 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	98593	98300	9.584	10.5
22)	S DCB	18.50	19.28	105984	69419	10.5	10.7
	Target Compounds:						
12)	L6 Aroclor-1254	11.85	12.35	83766	76125	214.2	230.1
13)	L6 Aroclor-1254 {2}	12.42	12.75	125161	73163	211.3	227.9
14)	L6 Aroclor-1254 {3}	13.02	13.47	60129	49494	205.4	228.5
15)	L6 Aroclor-1254 {4}	13.64	14.08	56819	44569	211.4	223.1
16)	L6 Aroclor-1254 {5}	14.20	14.46	93279	54400	221.5	233.6
	Sum Aroclor-1254			419154	297752	1063.8	1143.3
	Average Aroclor-1254					212.765	228.661

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

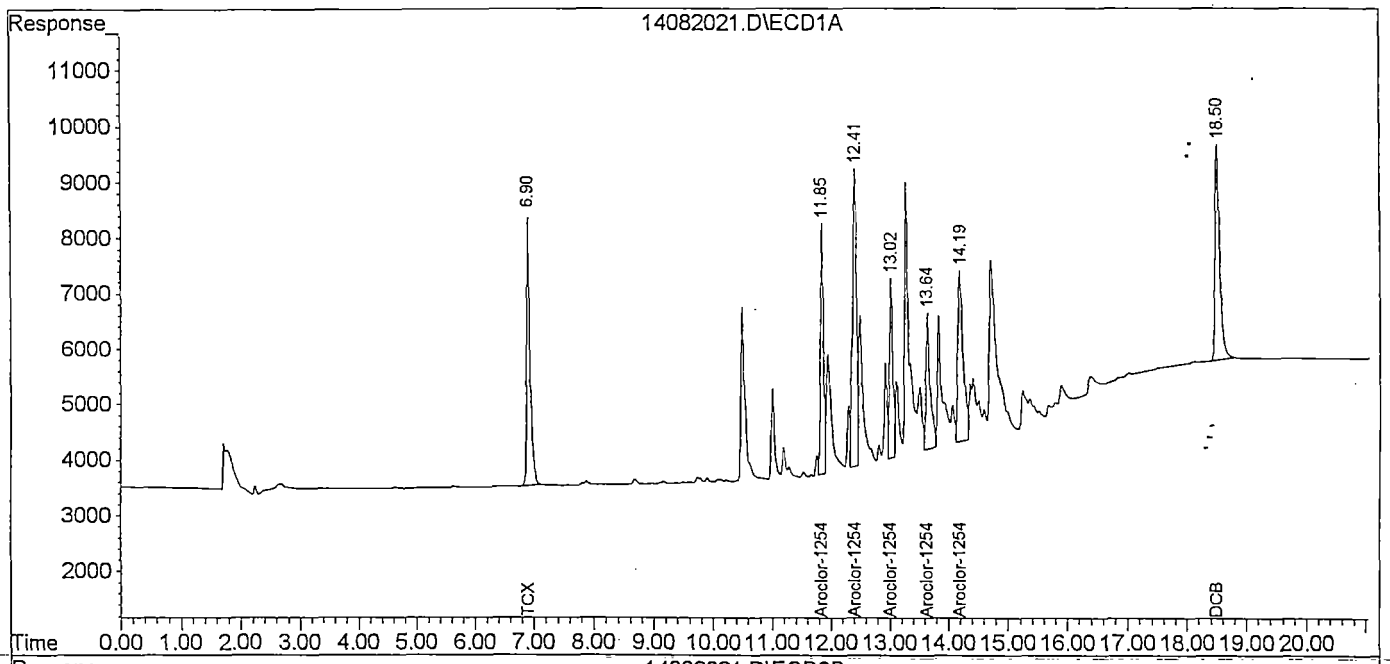
Chromatographic Report

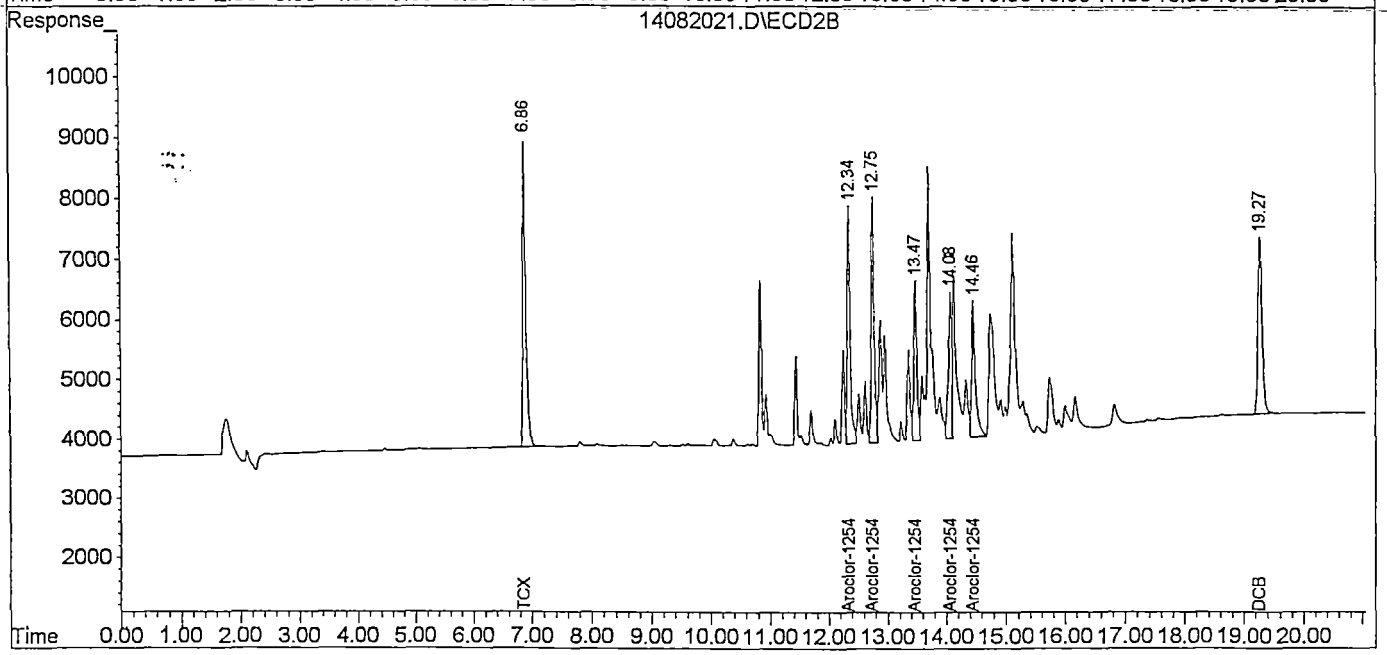
Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082021.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082021.D\ECD2B.CH
Acq On : 20 Aug 2001 22:24 Operator: TLM
Sample : AR1254L3AC Inst : HP_14
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 14:00 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

OK 8-25-01 KE

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082021.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082021.D\ECD2B.CH
Acq On : 20 Aug 2001 22:24 Operator: TLM
Sample : AR1254L3AC Inst : HP_14
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 14:00 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	195085	188048	19.0	20.0
22)	S DCB	18.50	19.28	210877	132527	20.9	20.5
	Target Compounds:						
12)	L6 Aroclor-1254	11.85	12.35	161048	138722	411.9	419.3
13)	L6 Aroclor-1254 {2}	12.41	12.75	246720	135572	416.4	422.4
14)	L6 Aroclor-1254 {3}	13.02	13.47	124639	92610	425.8	427.6
15)	L6 Aroclor-1254 {4}	13.64	14.08	120802	85752	449.4	429.3
16)	L6 Aroclor-1254 {5}	14.20	14.46	192511	104089	457.2	447.0
	Sum Aroclor-1254			845719	556744	2160.7	2145.6
	Average Aroclor-1254					432.149	429.115

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

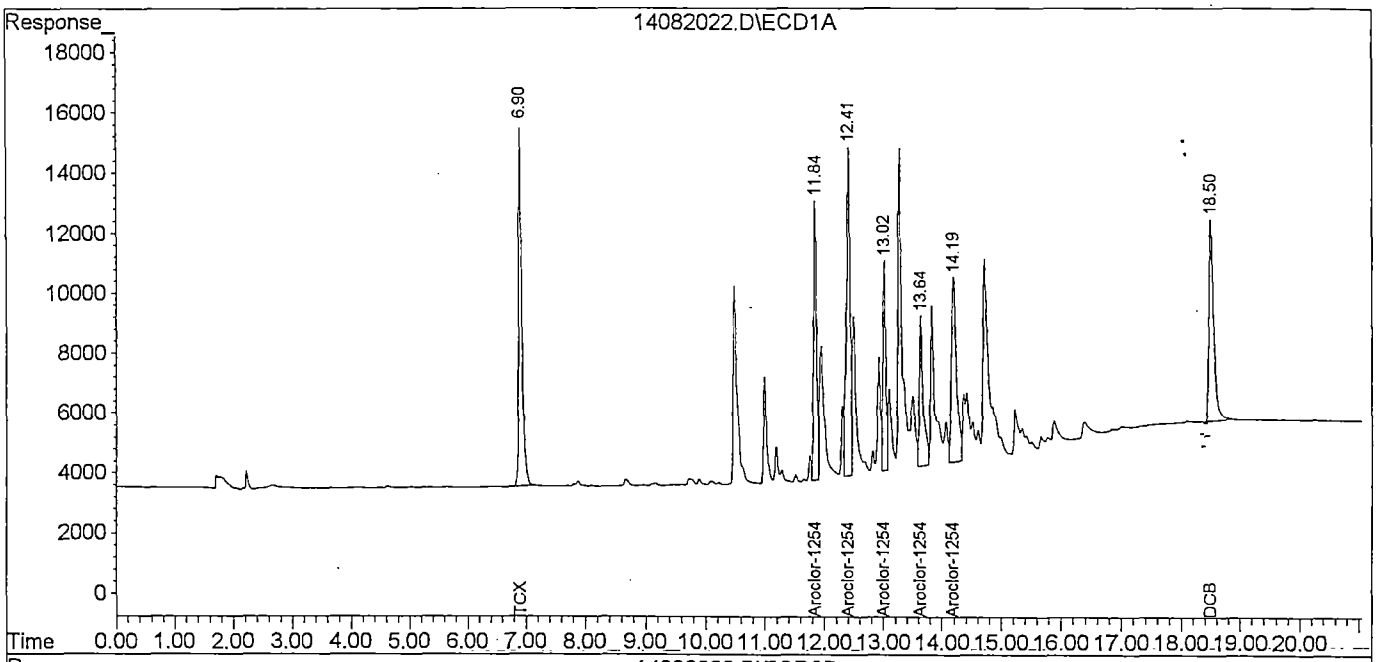
Chromatographic Report

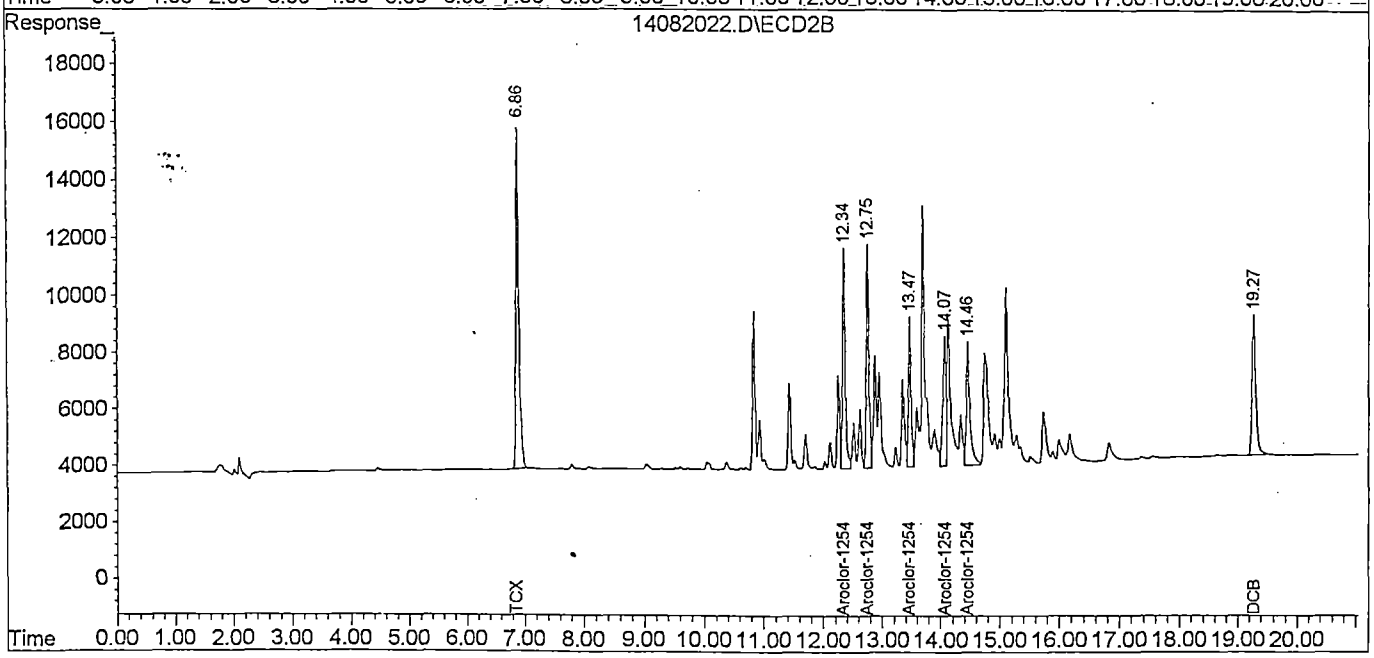
Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082022.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082022.D\ECD2B.CH
Acq On : 20 Aug 2001 22:48 Operator: TLM
Sample : AR1254L4AC Inst : HP_14
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 14:00 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

OK 8-27-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082022.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082022.D\ECD2B.CH
Acq On : 20 Aug 2001 22:48 Operator: TLM
Sample : AR1254L4AC Inst : HP_14
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 14:00 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	464643	420923	45.2	44.8
22)	S DCB	18.50	19.28	382815	229767	38.0	35.6
	Target Compounds:						
12)	L6 Aroclor-1254	11.85	12.34	326436	255953	834.9	773.7
13)	L6 Aroclor-1254 {2}	12.41	12.75	502222	249211	847.7	776.4
14)	L6 Aroclor-1254 {3}	13.02	13.47	259864	174295	887.9	804.7
15)	L6 Aroclor-1254 {4}	13.64	14.08	237532	161700	883.6	809.6
16)	L6 Aroclor-1254 {5}	14.19	14.46	361130	179351	857.7	770.2
	Sum Aroclor-1254			1687184	1020511	4311.7	3934.5
	Average Aroclor-1254					862.339	786.910

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

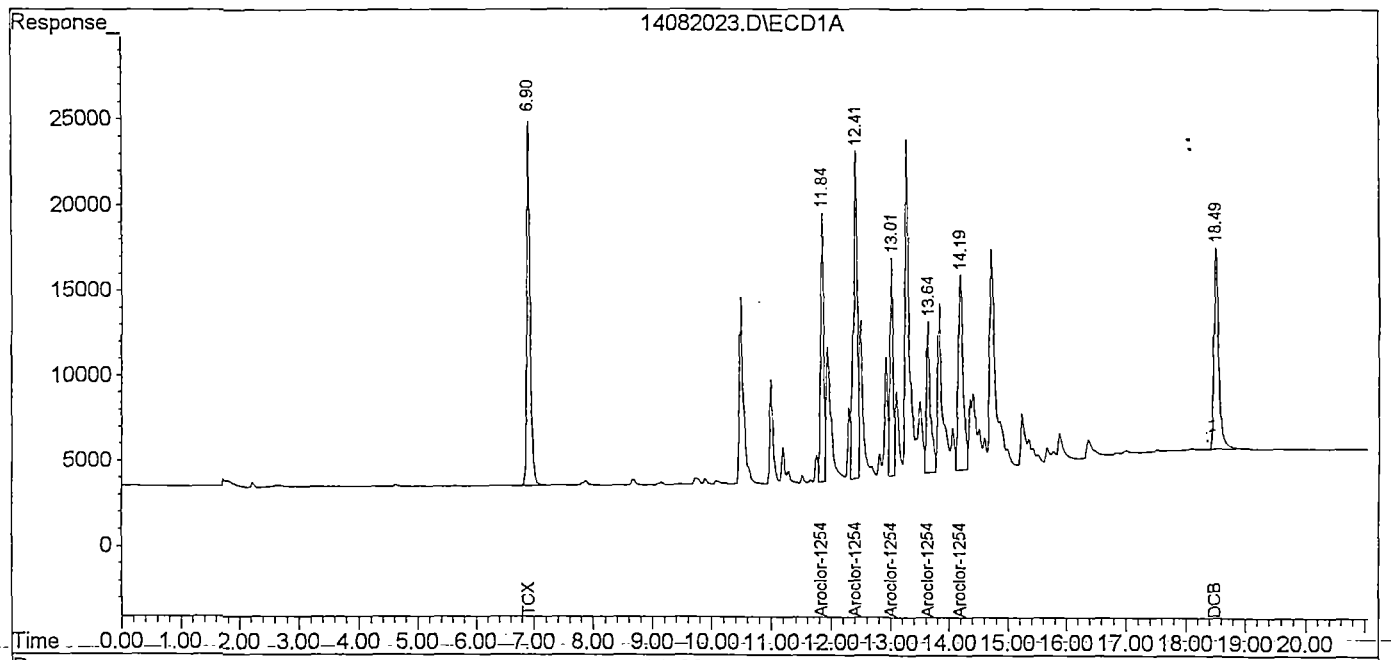
Chromatographic Report

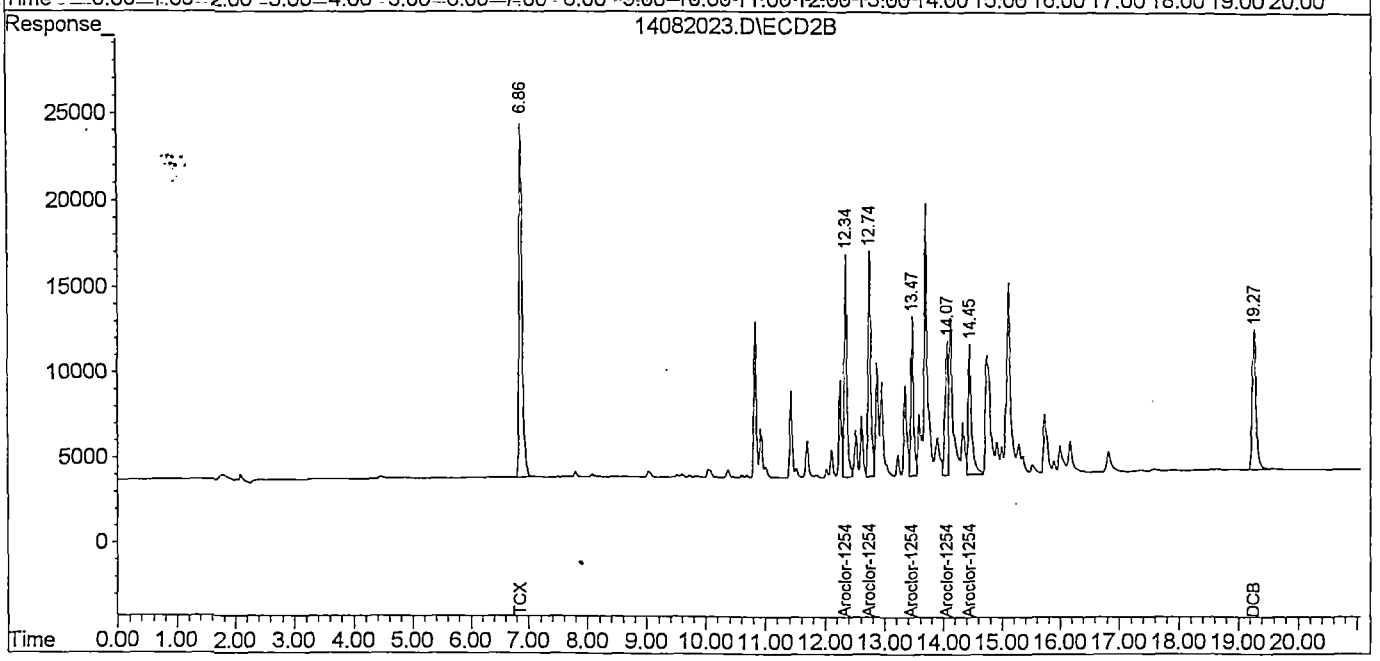
Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082023.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082023.D\ECD2B.CH
Acq On : 20 Aug 2001 23:12 Operator: TLM
Sample : AR1254L5AC Inst : HP_14
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 14:00 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

OK 8-27-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082023.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082023.D\ECD2B.CH
Acq On : 20 Aug 2001 23:12 Operator: TLM
Sample : AR1254L5AC Inst : HP_14
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 14:00 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
.)	S TCX	6.91	6.87	825286	720400	80.2	76.6 E
2)	S DCB	18.50	19.27	656387	376848	65.2	58.3
	Target Compounds:						
2)	L6 Aroclor-1254	11.85	12.34	563388	422019	1440.9 E	1275.6
3)	L6 Aroclor-1254 {2}	12.41	12.75	889935	418293	1502.1	1303.2
.4)	L6 Aroclor-1254 {3}	13.02	13.47	483798	298336	1652.9 E	1377.5
.5)	L6 Aroclor-1254 {4}	13.64	14.08	427965	278095	1592.0 E	1392.3 E
.6)	L6 Aroclor-1254 {5}	14.19	14.46	652362	297360	1549.4	1276.9
	Sum Aroclor-1254			3017447	1714103	7737.3	6625.5
	Average Aroclor-1254					1547.457	1325.097

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

Response Factor Report HP_14

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

OK 8-24-01

Calibration Files
L1 =14082024.D L2 =14082025.D L3 =14082026.D
L4 =14082027.D L5 =14082028.D

	Compound	L1	L2	L3	L4	L5	Avg		%RSD
1)	TCX	11.3	9.6	9.9	10.2	10.4	10.3	E3	6.42
2)	Aroclor-1016	300.2	249.6	253.0	241.2	226.2	254.1		10.94
3)	Aroclor-1016 {2}	744.9	605.3	588.0	536.1	506.3	596.1		15.46
4)	Aroclor-1016 {3}	840.7	681.9	708.3	694.8	734.1	732.0		8.72
5)	Aroclor-1016 {4}	221.4	195.1	210.5	197.5	200.5	205.0		5.32
6)	Aroclor-1016 {5}	235.5	197.7	213.4	198.4	200.4	209.1		7.70
17)	Aroclor-1260	646.8	575.7	688.1	676.9	726.3	662.8		8.51
18)	Aroclor-1260 {2}	412.1	369.4	407.5	380.8	385.4	391.1		4.65
19)	Aroclor-1260 {3}	386.7	335.8	333.3	285.5	271.7	322.6		14.17
20)	Aroclor-1260 {4}	244.1	240.4	299.5	311.9	343.7	287.9		15.53
21)	Aroclor-1260 {5}	979.9	858.4	891.2	860.5	881.0	894.2		5.58
22)	DCB	11.1	10.0	10.3	9.4	9.5	10.1	E3	6.77
	Average %RSD								

Signal #2 Calibration Files
L1 =14082024.D L2 =14082025.D L3 =14082026.D
L4 =14082027.D L5 =14082028.D

	Compound	L1	L2	L3	L4	L5	Avg		%RSD
24)	TCX #2	11.1	9.2	9.0	9.0	8.7	9.4	E3	10.08
25)	Aroclor-1016 #2	252.0	203.9	195.5	183.7	168.6	200.7		15.73
26)	Aroclor-1016 {2} #2	589.2	471.2	439.8	399.1	362.7	452.4		19.18
27)	Aroclor-1016 {3} #2	138.9	113.4	111.8	105.0	98.9	113.6		13.44
28)	Aroclor-1016 {4} #2	210.0	173.0	173.3	157.9	144.5	171.7		14.27
29)	Aroclor-1016 {5} #2	744.5	592.4	635.8	586.3	565.7	624.9		11.44
40)	Aroclor-1260 #2	642.7	545.7	566.8	498.3	478.5	546.4		11.79
41)	Aroclor-1260 {2} #2	392.7	328.2	317.0	264.0	242.6	308.9		19.06
42)	Aroclor-1260 {3} #2	281.6	231.7	213.9	172.1	155.0	210.9		23.79
43)	Aroclor-1260 {4} #2	357.7	306.5	319.4	278.2	267.0	305.8		11.73
44)	Aroclor-1260 {5} #2	656.0	552.2	631.1	537.7	510.5	577.5		10.86
45)	DCB #2	7.7	6.8	6.6	5.7	5.5	6.5	E3	13.92
	Average %RSD								

(#) = Out of Range

XPCBH20.M Tue Aug 21 16:45:09 2001

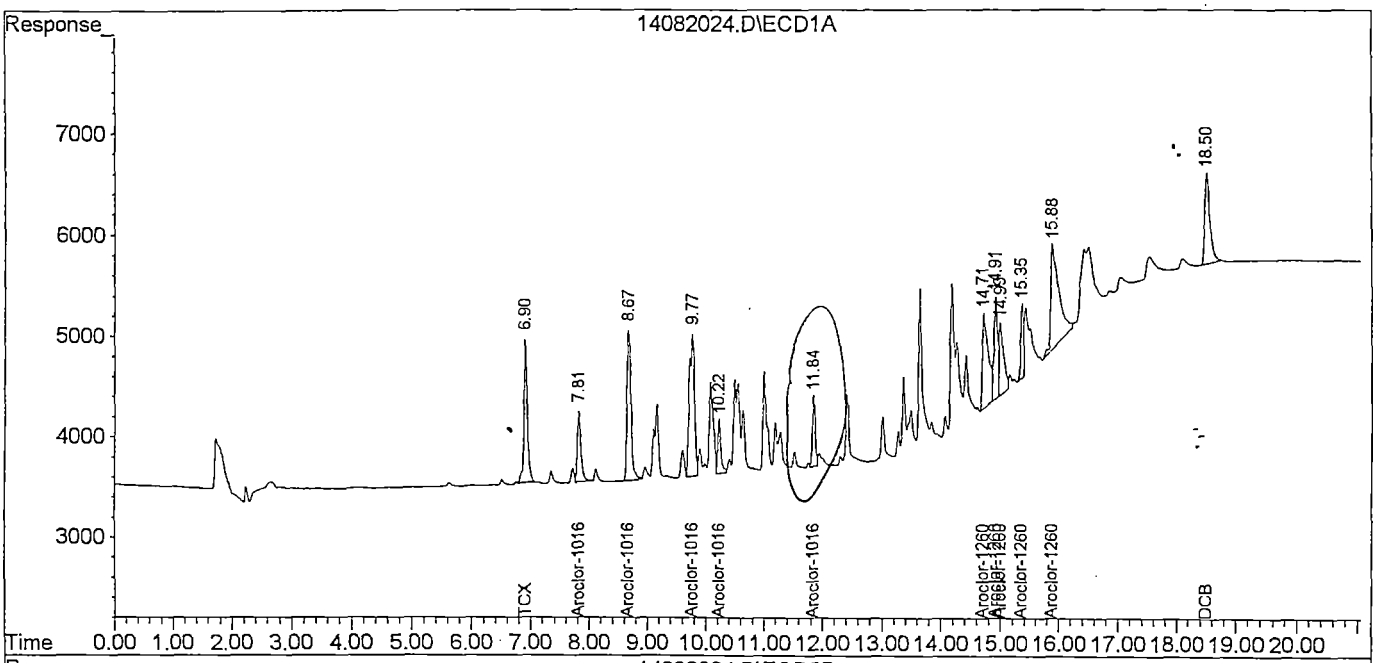
Chromatographic Report

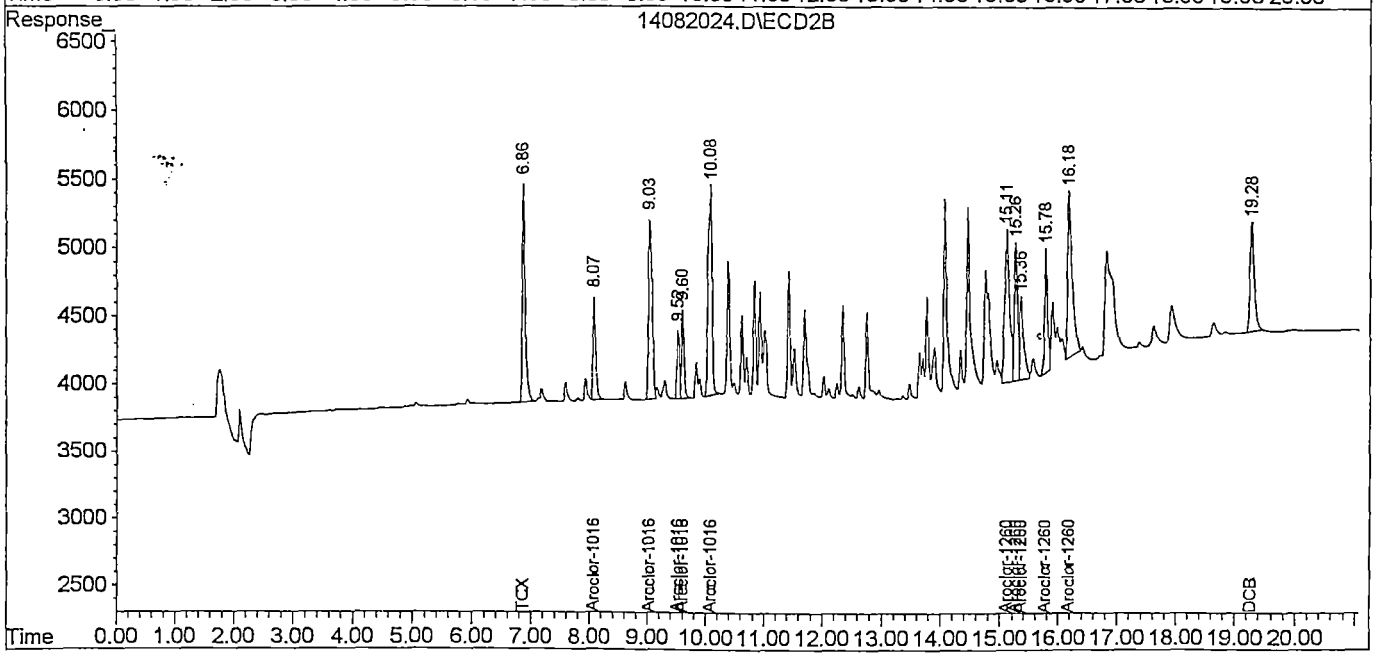
Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082024.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082024.D\ECD2B.CH
Acq On : 20 Aug 2001 23:36 Operator: TLM
Sample : AR1660L1AC Inst : HP_14
Misc : 5-130-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 16:43 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

OK 8-24-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082024.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082024.D\ECD2B.CH
Acq On : 20 Aug 2001 23:36 Operator: TLM
Sample : AR1660L1AC Inst : HP_14
Misc : 5-130-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 16:43 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	6.90	6.86	56602	55329	5.489	5.649	
22)	S DCB	18.51	19.28	55474	38667	5.878	6.479	
	Target Compounds:							
2)	L1 Aroclor-1016	7.82	8.08	30022	25198	118.2	125.5	
3)	L1 Aroclor-1016 {2}	8.67	9.03	74495	58915	125.0	130.3	
4)	L1 Aroclor-1016 {3}	9.77	9.52	84070	13889	145.3	122.4	
5)	L1 Aroclor-1016 {4}	10.22	9.60	22144	21003	108.2	124.3	
6)	L1 Aroclor-1016 {5}	11.85	10.08	23551	74447	113.3	141.4	
	Sum Aroclor-1016			234281	193452	609.9	644.0	
	Average Aroclor-1016					121.989	128.791	
17)	L7 Aroclor-1260	14.71	15.11	64678	64266	97.4	117.5	
18)	L7 Aroclor-1260 {2}	14.91	15.26	41215	39267	105.6	127.2	
19)	L7 Aroclor-1260 {3}	14.99	15.36	38671	28163	119.8	133.7	
20)	L7 Aroclor-1260 {4}	15.36	15.78	24409	35768	84.7	116.9	#
21)	L7 Aroclor-1260 {5}	15.88	16.18	97994	65598	109.7	113.6	
	Sum Aroclor-1260			266966	233061	517.3	609.0	
	Average Aroclor-1260					103.455	121.793	

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

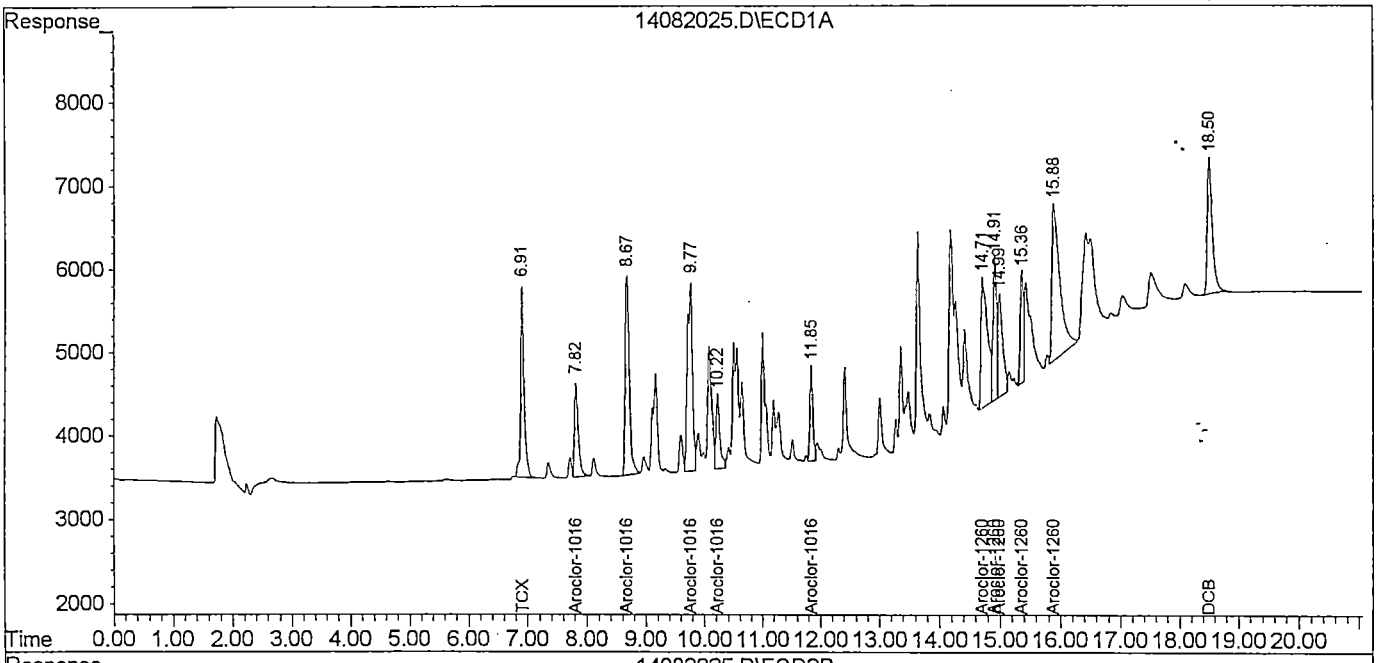
Chromatographic Report

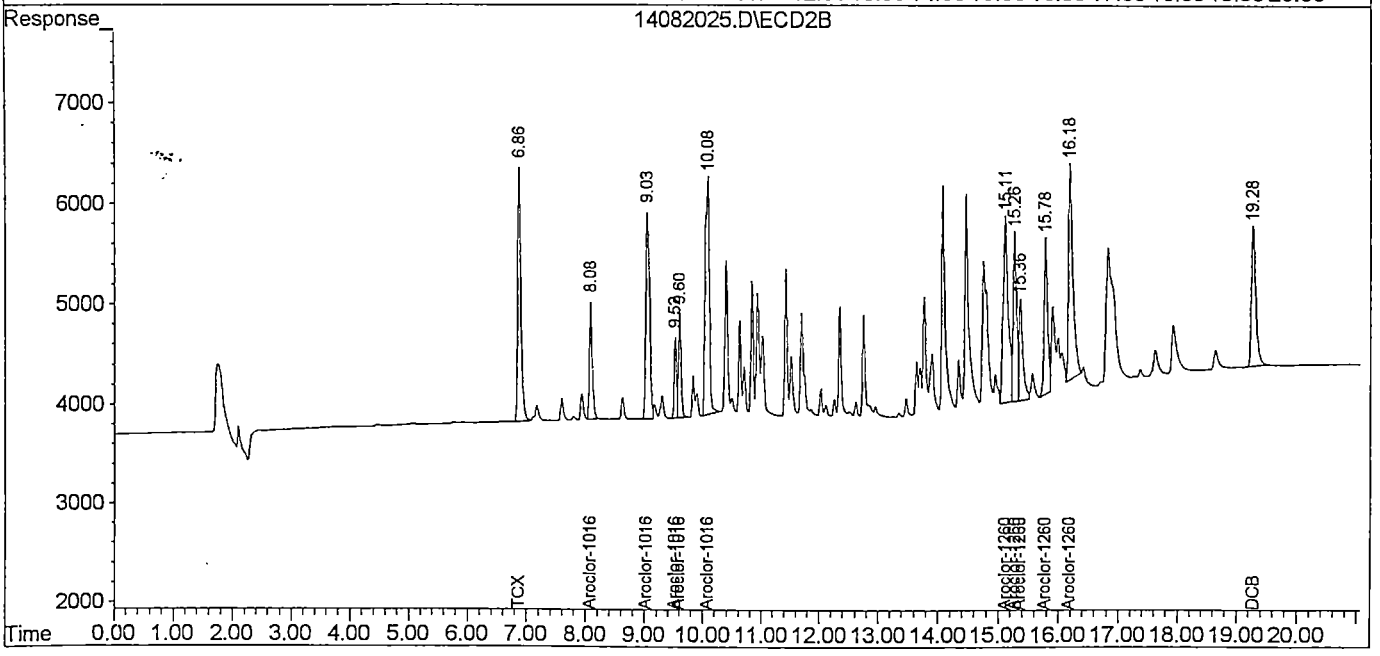
Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082025.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082025.D\ECD2B.CH
Acq On : 21 Aug 2001 00:01 Operator: TLM
Sample : AR1660L2AC ✓ Inst : HP_14
Misc : 5-129-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 16:44 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

OK 8-24-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082025.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082025.D\ECD2B.CH
Acq On : 21 Aug 2001 00:01 Operator: TLM
Sample : AR1660L2AC Inst : HP_14
Misc : 5-129-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 16:44 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	95517	92166	9.034	9.249
22)	S DCB	18.50	19.28	100154	67725	10.0	10.7
	Target Compounds:						
2)	L1 Aroclor-1016	7.82	8.08	49926	40782	196.5	203.2
3)	L1 Aroclor-1016 {2}	8.67	9.03	121054	94235	203.1	208.4
4)	L1 Aroclor-1016 {3}	9.77	9.52	136376	22685	213.9	199.6
5)	L1 Aroclor-1016 {4}	10.22	9.60	39020	34597	190.4	203.0
6)	L1 Aroclor-1016 {5}	11.85	10.08	39547	118488	189.4	203.9
	Sum Aroclor-1016			385923	310788	993.3	1018.1
	Average Aroclor-1016					198.650	203.617
17)	L7 Aroclor-1260	14.71	15.11	115133	109150	173.6	199.7
18)	L7 Aroclor-1260 {2}	14.91	15.27	73887	65642	189.1	212.6
19)	L7 Aroclor-1260 {3}	14.99	15.36	67159	46338	208.1	219.9
20)	L7 Aroclor-1260 {4}	15.36	15.78	48086	61306	166.9	200.4
21)	L7 Aroclor-1260 {5}	15.89	16.18	171677	110443	191.9	191.3
	Sum Aroclor-1260			475942	392880	929.7	1023.9
	Average Aroclor-1260					185.931	204.776

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

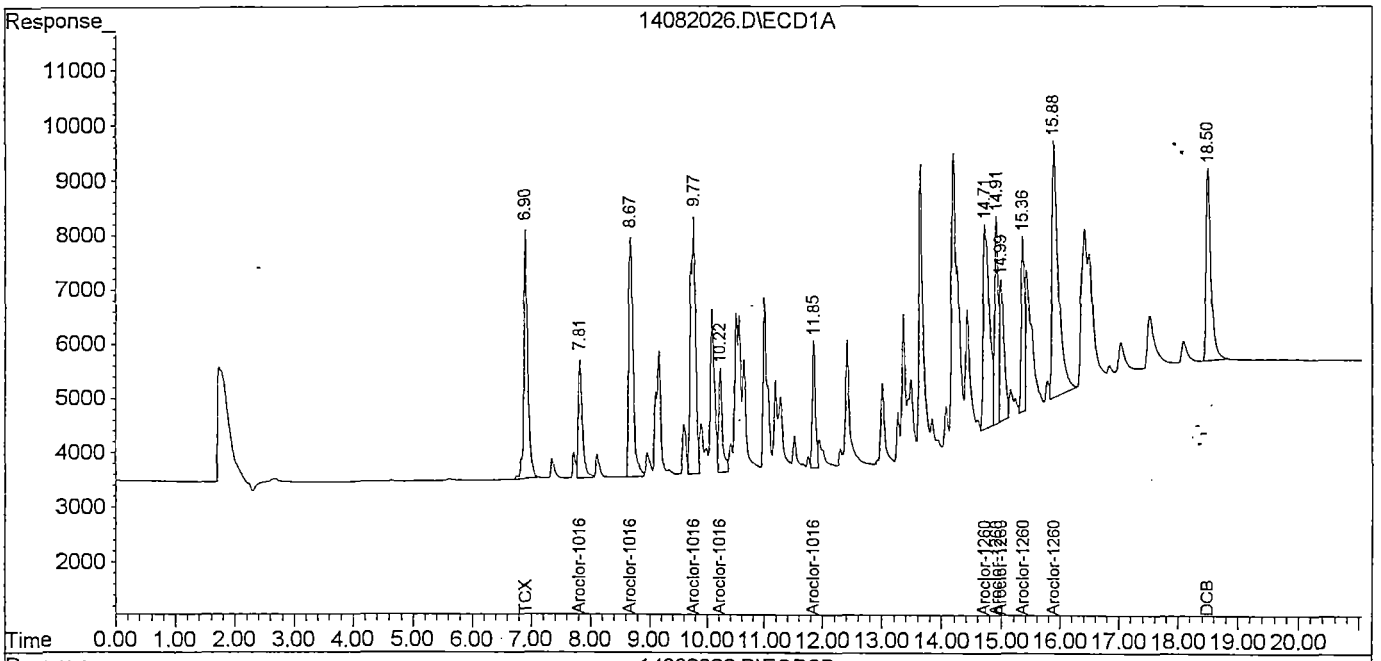
Chromatographic Report

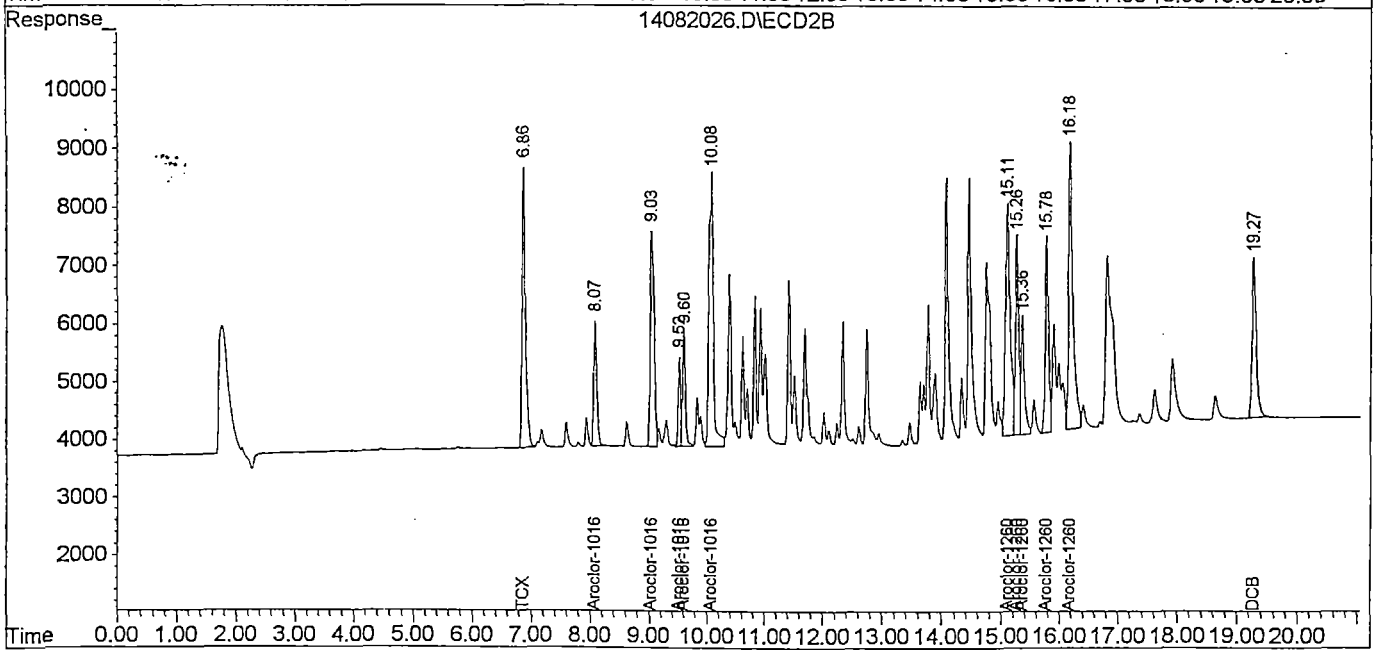
Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082026.D\ECD1A.CH Vial: 26
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082026.D\ECD2B.CH
Acq On : 21 Aug 2001 00:25 Operator: TLM
Sample : AR1660L3AS Inst : HP_14
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 16:44 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

OK 8-24-01 EB

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082026.D\ECD1A.CH Vial: 26
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082026.D\ECD2B.CH
Acq On : 21 Aug 2001 00:25 Operator: TLM
Sample : AR1660L3AS Inst : HP_14
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 16:44 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	198702	180293	18.9	18.3
22)	S DCB	18.50	19.28	206583	131884	20.9	20.9
	Target Compounds:						
2)	L1 Aroclor-1016	7.82	8.08	101198	78206	398.3	389.6
3)	L1 Aroclor-1016 {2}	8.68	9.03	235187	175917	394.5	389.1
4)	L1 Aroclor-1016 {3}	9.77	9.52	283321	44713	413.2	393.5
5)	L1 Aroclor-1016 {4}	10.22	9.60	84214	69316	410.8	406.1
6)	L1 Aroclor-1016 {5}	11.85	10.08	85372	254303	408.3	407.5
	Sum Aroclor-1016			789293	622455	2025.2	1985.9
	Average Aroclor-1016					405.034	397.175
17)	L7 Aroclor-1260	14.72	15.11	275246	226737	415.3	414.9
18)	L7 Aroclor-1260 {2}	14.91	15.27	163016	126786	416.9	410.5
19)	L7 Aroclor-1260 {3}	14.99	15.36	133329	85553	413.3	405.7
20)	L7 Aroclor-1260 {4}	15.36	15.78	119789	127745	416.0	417.8
21)	L7 Aroclor-1260 {5}	15.89	16.18	356489	252421	398.7	437.1
	Sum Aroclor-1260			1047869	819242	2060.2	2086.0
	Average Aroclor-1260					412.032	417.207

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

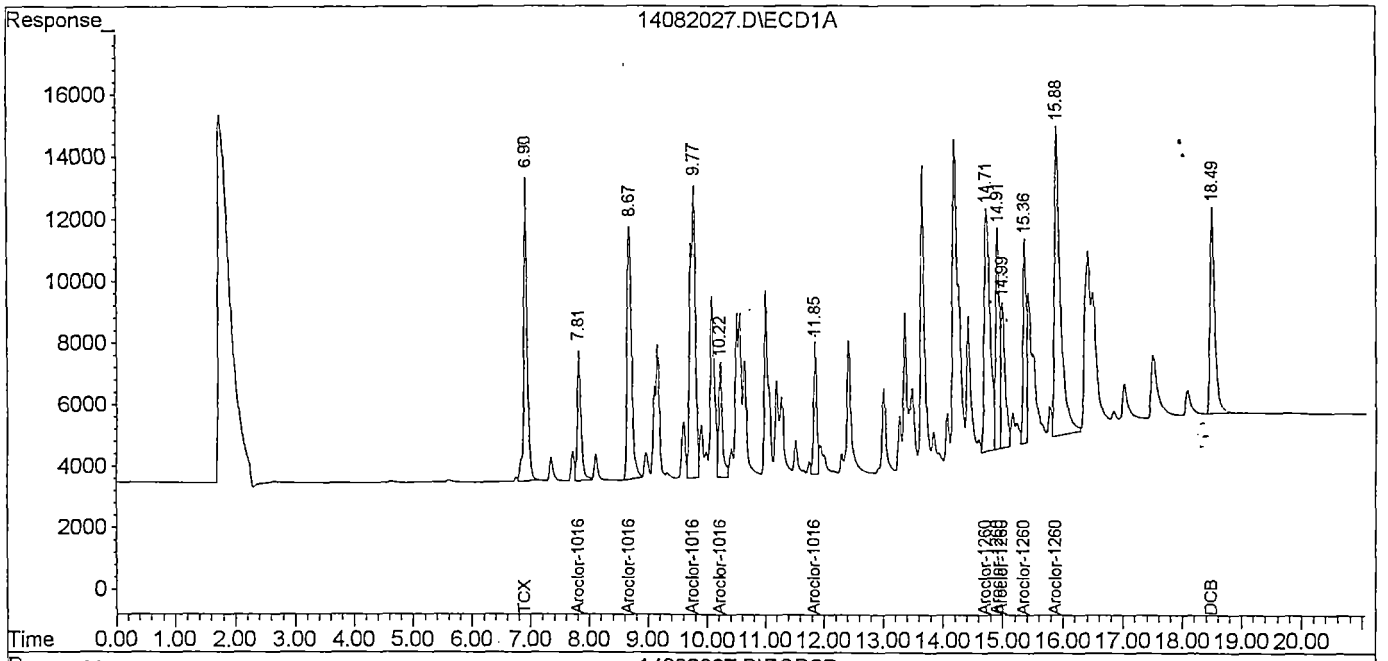
Chromatographic Report

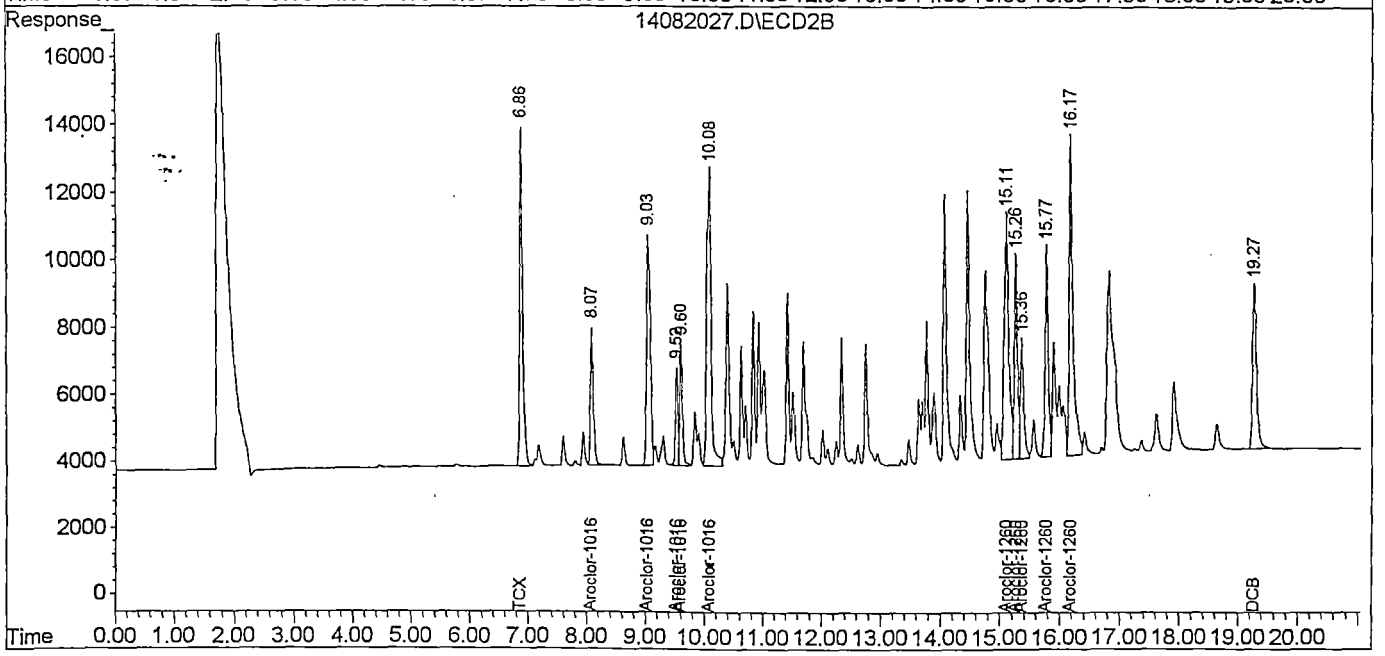
Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082027.D\ECD1A.CH Vial: 27
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082027.D\ECD2B.CH
Acq On : 21 Aug 2001 00:49 Operator: TLM
Sample : AR1660L4AC Inst : HP_14
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 16:44 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

OK 8-24-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082027.D\ECD1A.CH Vial: 27
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082027.D\ECD2B.CH
Acq On : 21 Aug 2001 00:49 Operator: TLM
Sample : AR1660L4AC Inst : HP_14
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 16:44 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.90	6.86	409769	359653	38.8	36.8
22)	S DCB	18.50	19.28	376104	228616	38.2	36.2
	Target Compounds:						
2)	L1 Aroclor-1016	7.81	8.08	192999	146950	759.6	732.1
3)	L1 Aroclor-1016 {2}	8.67	9.03	428905	319242	719.5	705.7
4)	L1 Aroclor-1016 {3}	9.77	9.52	555837	83974	810.4	737.5
5)	L1 Aroclor-1016 {4}	10.22	9.60	157967	126300	770.6	736.6
6)	L1 Aroclor-1016 {5}	11.85	10.08	158691	469016	759.0	750.5
	Sum Aroclor-1016			1494399	1145482	3819.1	3662.4
	Average Aroclor-1016					763.827	732.482
17)	L7 Aroclor-1260	14.72	15.11	541537	398678	817.1	729.6
18)	L7 Aroclor-1260 {2}	14.91	15.27	304632	211231	779.0	683.8
19)	L7 Aroclor-1260 {3}	14.99	15.36	228398	137685	708.0	652.9
20)	L7 Aroclor-1260 {4}	15.36	15.78	249519	222556	866.6	727.9
21)	L7 Aroclor-1260 {5}	15.89	16.18	688392	430135	769.8	744.8
	Sum Aroclor-1260			2012478	1400284	3940.5	3539.1
	Average Aroclor-1260					788.103	707.827

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

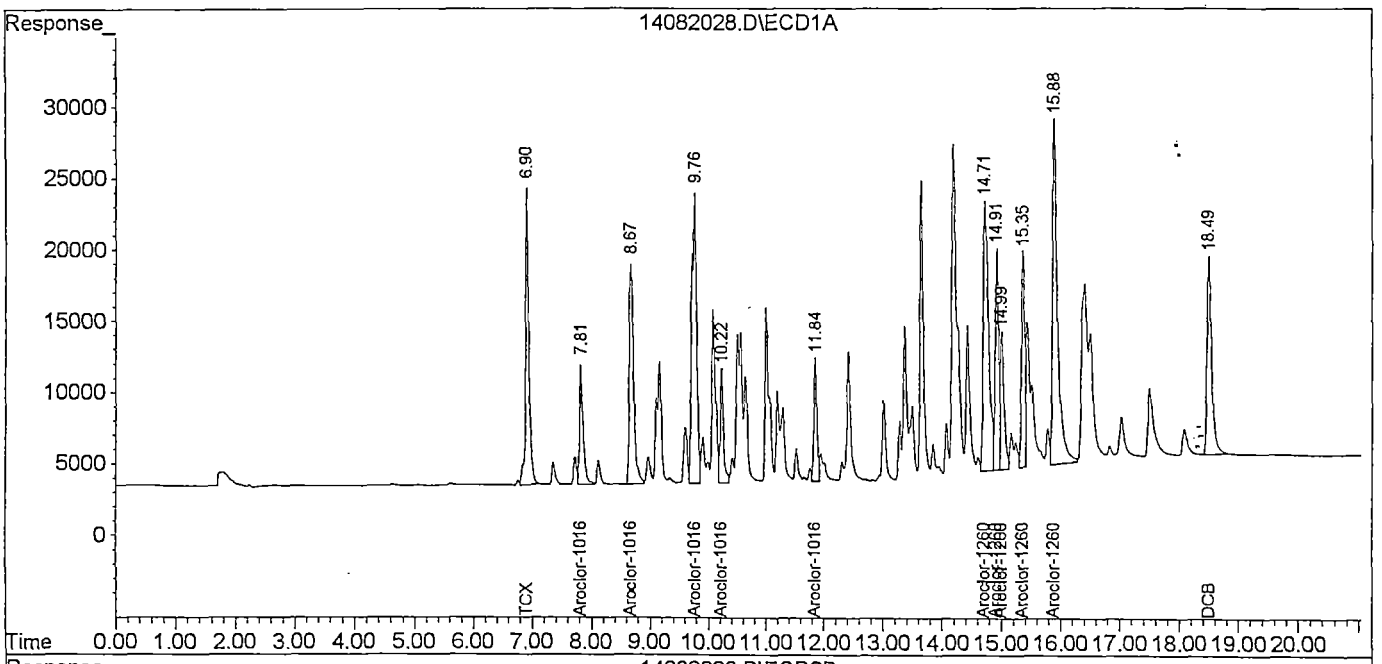
Chromatographic Report

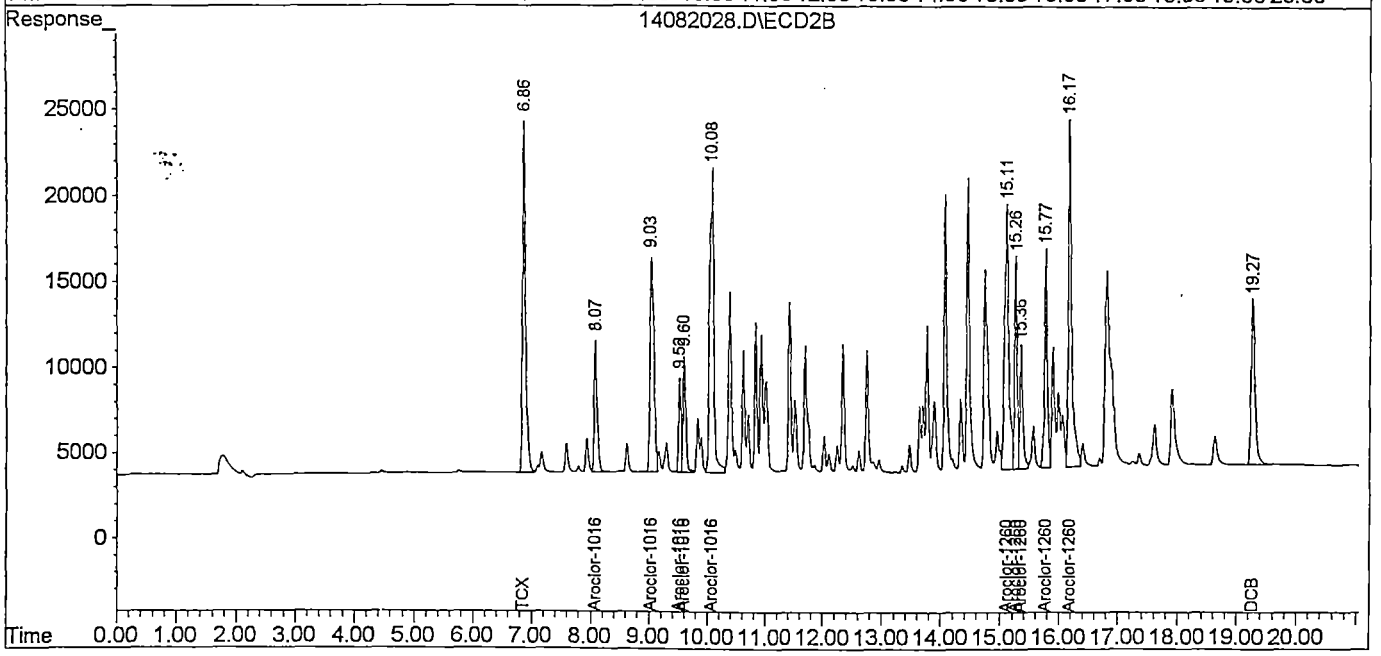
Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082028.D\ECD1A.CH Vial: 28
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082028.D\ECD2B.CH
Acq On : 21 Aug 2001 1:13 Operator: TLM
Sample : AR1660L5AC Inst : HP_14
Misc : 5-126-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 16:44 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

OK 8-24-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082028.D\ECD1A.CH Vial: 28
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082028.D\ECD2B.CH
Acq On : 21 Aug 2001 1:13 Operator: TLM
Sample : AR1660L5AC Inst : HP_14
Misc : 5-126-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 16:44 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.90	6.86	830770	697378	80.9 E	73.7
22)	S DCB	18.49	19.27	762266	439018	77.7 E	69.6 E
	Target Compounds:						
2)	L1 Aroclor-1016	7.81	8.07	361996	269702	1424.8 E	1343.6
3)	L1 Aroclor-1016 {2}	8.67	9.03	810051	580258	1358.9	1282.7
4)	L1 Aroclor-1016 {3}	9.77	9.52	1174603	158264	1605.2 E	1391.6
5)	L1 Aroclor-1016 {4}	10.22	9.60	320758	231238	1564.7	1347.5 E
6)	L1 Aroclor-1016 {5}	11.85	10.08	320582	905164	1533.3 E	1448.4 E
	Sum Aroclor-1016			2987990	2144626	7486.8	6813.9
	Average Aroclor-1016					1497.368	1362.771
17)	L7 Aroclor-1260	14.71	15.11	1162047	765652	1753.4	1401.2 E
18)	L7 Aroclor-1260 {2}	14.91	15.26	616561	388084	1576.7 E	1256.4 E
19)	L7 Aroclor-1260 {3}	14.99	15.36	434750	248053	1347.6	1176.3
20)	L7 Aroclor-1260 {4}	15.36	15.77	549997	427209	1910.2	1397.2 E#
21)	L7 Aroclor-1260 {5}	15.88	16.17	1409663	816791	1576.4 E	1414.4
	Sum Aroclor-1260			4173017	2645789	8164.3	6645.6
	Average Aroclor-1260					1632.853	1329.114

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

Continuing Calibration Report HP_14

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Wed Aug 22 11:45:55 2001
Response via : Initial Calibration

OK
8-27-01

Continuing Calibration File: 14082205.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	10.287	9.816	E3	4.6	99
2	L1	Aroclor-1016	254.069	251.541		1.0	99
3	L1	Aroclor-1016 {2}	596.120	573.424		3.8	98
4	L1	Aroclor-1016 {3}	731.960	718.995		1.8	102
5	L1	Aroclor-1016 {4}	205.000	206.477		-0.7	98
6	L1	Aroclor-1016 {5}	209.080	222.557		-6.4	104
17	L7	Aroclor-1260	662.753	773.443		-16.7#	112
18	L7	Aroclor-1260 {2}	391.053	440.367		-12.6	108
19	L7	Aroclor-1260 {3}	322.608	298.231		7.6	89
20	L7	Aroclor-1260 {4}	287.927	376.624		-30.8#	126
21	L7	Aroclor-1260 {5}	894.214	935.736		-4.6	105
						14.5%	
22	S	DCB	10.074	10.473	E3	-4.0	101
		Average %Dev					

Signal #2
Continuing Calibration File: 14082205.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	9.401	8.103	E3	13.8	90
2	L1	Aroclor-1016	200.731	175.223		12.7	90
3	L1	Aroclor-1016 {2}	452.367	390.153		13.8	89
4	L1	Aroclor-1016 {3}	113.596	100.397		11.6	90
5	L1	Aroclor-1016 {4}	171.742	153.492		10.6	89
6	L1	Aroclor-1016 {5}	624.934	584.706		6.4	92
17	L7	Aroclor-1260	546.426	598.330		-9.5	106
18	L7	Aroclor-1260 {2}	308.887	315.288		-2.1	99
19	L7	Aroclor-1260 {3}	210.868	198.439		5.9	93
20	L7	Aroclor-1260 {4}	305.754	336.639		-10.1	105
21	L7	Aroclor-1260 {5}	577.482	649.397		-12.5	103
22	S	DCB	6.461	6.734	E3	-4.2	102
		Average %Dev					

(#) = Out of Range SPCC's out = 0 CCC's out = 0

14082205.D XPCBH20.M Wed Aug 22 11:46:05 2001

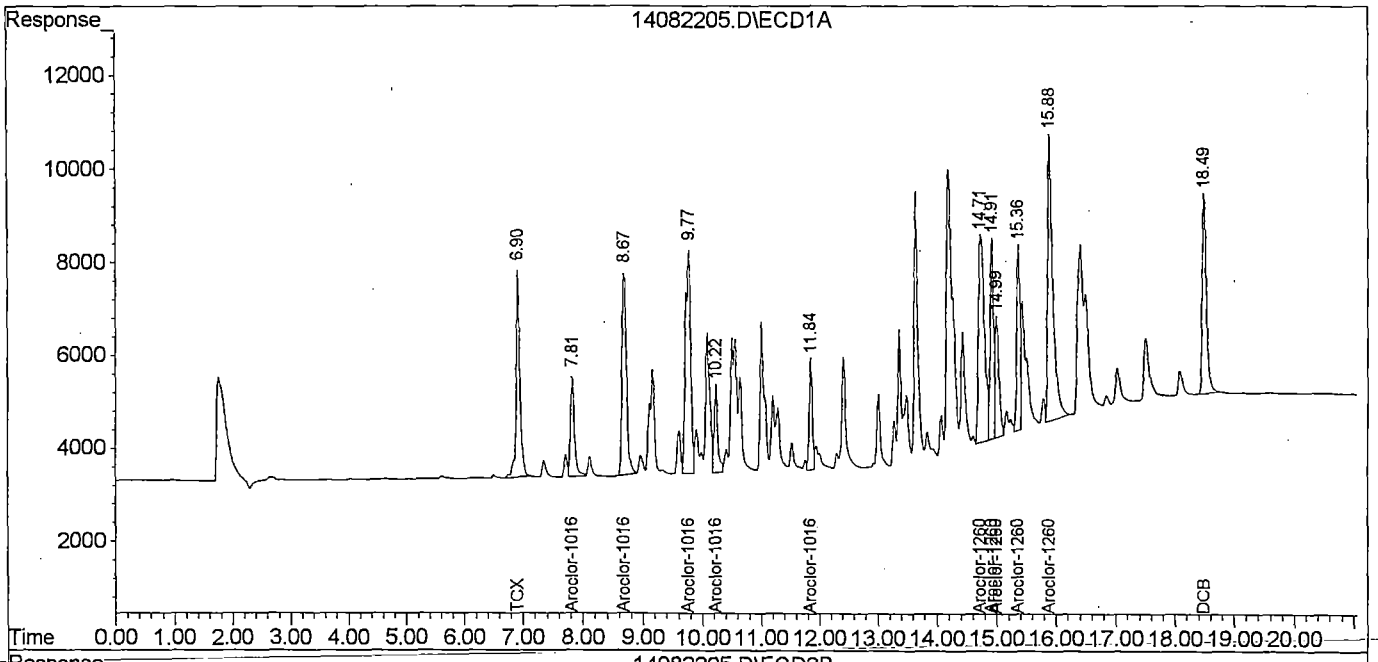
Chromatographic Report

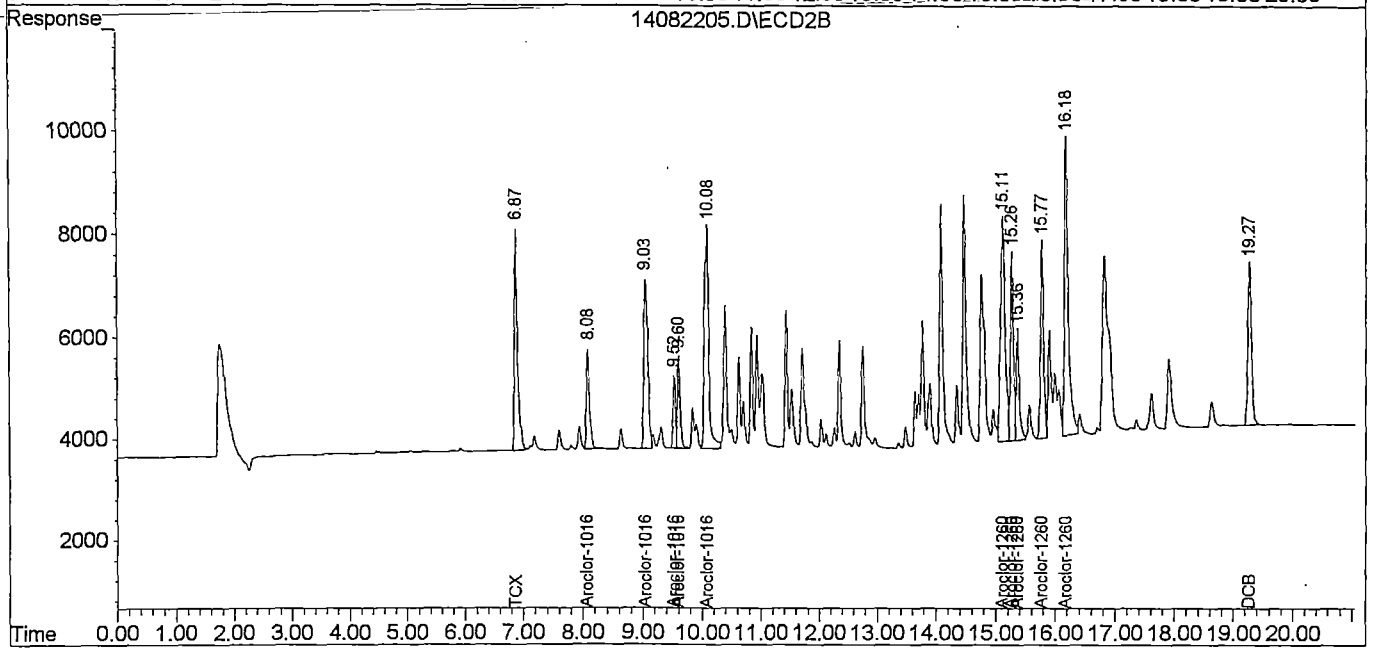
Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082205.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082205.D\ECD2B.CH
Acq On : 22 Aug 2001 10:45 Operator: TLM
Sample : AR1660L3AZ Inst : HP_14
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 22 11:45 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

016
8-27-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082205.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082205.D\ECD2B.CH
Acq On : 22 Aug 2001 10:45 Operator: TLM
Sample : AR1660L3AZ Inst : HP_14
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 22 11:45 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	196313	162054	19.1	17.2
22)	S DCB	18.49	19.27	209464	134688	20.8	20.8
	Target Compounds:						
2)	L1 Aroclor-1016	7.82	8.08	100616	70089	396.0	349.2
3)	L1 Aroclor-1016 {2}	8.68	9.03	229370	156061	384.8	345.0
4)	L1 Aroclor-1016 {3}	9.77	9.52	287598	40159	392.9	353.5
5)	L1 Aroclor-1016 {4}	10.22	9.60	82591	61397	402.9	357.5
6)	L1 Aroclor-1016 {5}	11.85	10.08	89023	233882	425.8	374.3
	Sum Aroclor-1016			789198	561589	2002.4	1779.4
	Average Aroclor-1016					400.474	355.886
17)	L7 Aroclor-1260	14.72	15.11	309377	239332	466.8	438.0
18)	L7 Aroclor-1260 {2}	14.91	15.27	176147	126115	450.4	408.3
19)	L7 Aroclor-1260 {3}	14.99	15.36	119292	79376	369.8	376.4
20)	L7 Aroclor-1260 {4}	15.36	15.78	150650	134656	523.2	440.4
21)	L7 Aroclor-1260 {5}	15.88	16.18	374294	259759	418.6	449.8
	Sum Aroclor-1260			1129760	839237	2228.8	2112.9
	Average Aroclor-1260					445.764	422.585

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

Continuing Calibration Report HP_14

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Fri Aug 24 12:44:06 2001
Response via : Initial Calibration

Continuing Calibration File: 14082226.D

ok 8-27-01 GB

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	10.287	10.391	E3	-1.0	105
2	L1	Aroclor-1016	254.069	271.399		-6.8	107
3	L1	Aroclor-1016 {2}	596.120	606.785		-1.8	103
4	L1	Aroclor-1016 {3}	731.960	818.644		-11.8	116
5	L1	Aroclor-1016 {4}	205.000	225.981		-10.2	107
6	L1	Aroclor-1016 {5}	209.080	243.407		-16.4#	114
17	L7	Aroclor-1260	662.753	876.186		-32.2#	127
18	L7	Aroclor-1260 {2}	391.053	472.429		-20.8#	116
19	L7	Aroclor-1260 {3}	322.608	281.287		12.8	84
20	L7	Aroclor-1260 {4}	287.927	426.384		-48.1#	142
21	L7	Aroclor-1260 {5}	894.214	1003.461		-12.2	113
22	S	DCB	10.074	10.511	E3	-4.3	102
		Average %Dev					

Signal #2
Continuing Calibration File: 14082226.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	9.401	9.367	E3	0.4	104
2	L1	Aroclor-1016	200.731	205.236		-2.2	105
3	L1	Aroclor-1016 {2}	452.367	457.950		-1.2	104
4	L1	Aroclor-1016 {3}	113.596	115.691		-1.8	103
5	L1	Aroclor-1016 {4}	171.742	175.401		-2.1	101
6	L1	Aroclor-1016 {5}	624.934	677.599		-8.4	107
17	L7	Aroclor-1260	546.426	626.931		-14.7	111
18	L7	Aroclor-1260 {2}	308.887	316.791		-2.6	100
19	L7	Aroclor-1260 {3}	210.868	189.759		10.0	89
20	L7	Aroclor-1260 {4}	305.754	344.941		-12.8	108
21	L7	Aroclor-1260 {5}	577.482	643.183		-11.4	102
22	S	DCB	6.461	6.527	E3	-1.0	99
		Average %Dev					

(#) = Out of Range SPCC's out = 0 CCC's out = 0

14082226.D XPCBH20.M Fri Aug 24 12:44:16 2001

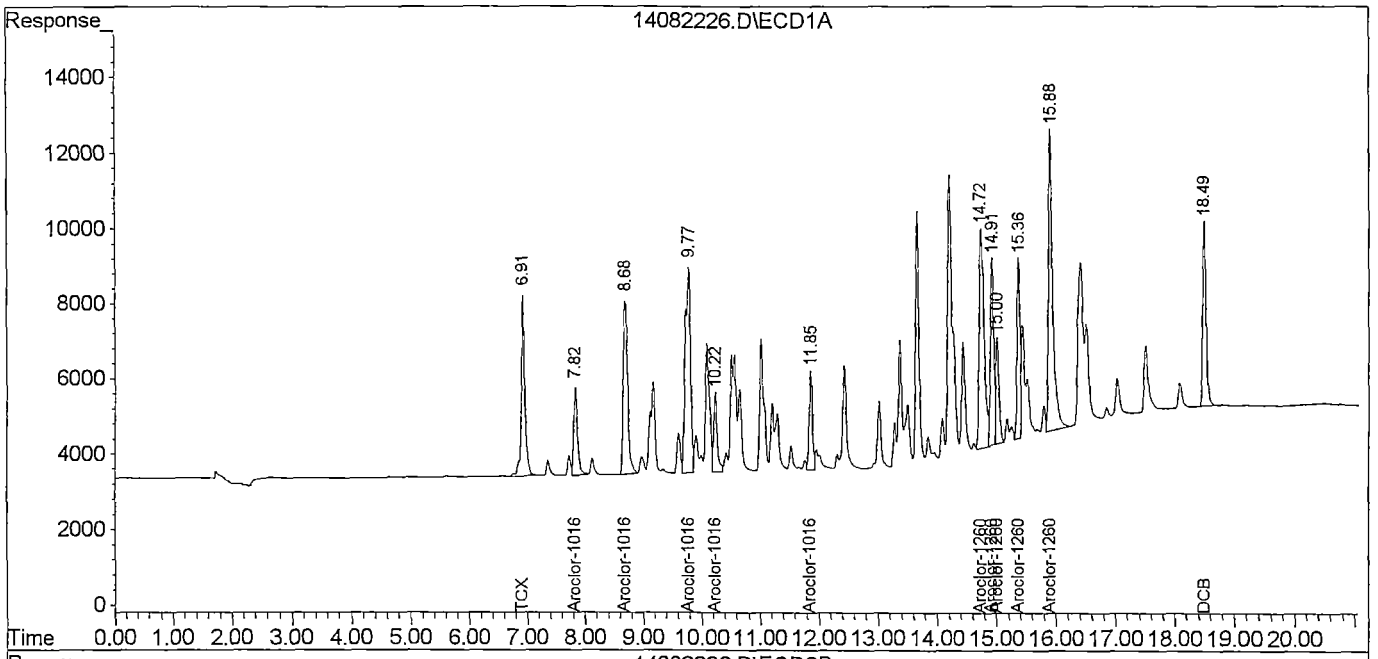
Chromatographic Report

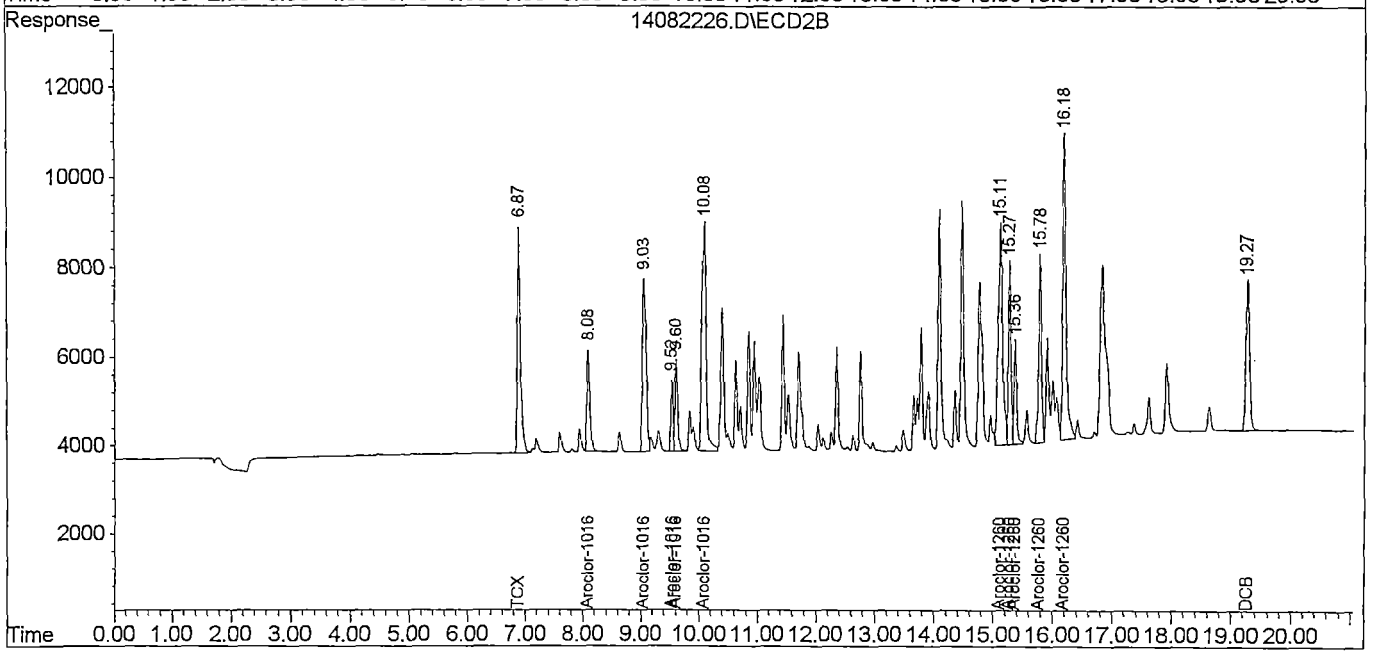
Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082226.D\ECD1A.CH Vial: 26
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082226.D\ECD2B.CH
Acq On : 22 Aug 2001 20:22 Operator: TLM
Sample : AR1660L3AB Inst : HP_14
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 24 12:42 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

OK 8-27-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082226.D\ECD1A.CH Vial: 26
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082226.D\ECD2B.CH
Acq On : 22 Aug 2001 20:22 Operator: TLM
Sample : AR1660L3AB Inst : HP_14
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 24 12:42 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds:						
1) S TCX	6.91	6.87	207819	187345	20.2	19.9
22) S DCB	18.49	19.28	210227	130536	20.9	20.2
Target Compounds:						
2) L1 Aroclor-1016	7.82	8.08	108560	82094	427.3	409.0
3) L1 Aroclor-1016 {2}	8.68	9.04	242714	183180	407.2	404.9
4) L1 Aroclor-1016 {3}	9.77	9.53	327458	46276	447.4	407.4
5) L1 Aroclor-1016 {4}	10.23	9.60	90392	70161	440.9	408.5
6) L1 Aroclor-1016 {5}	11.85	10.08	97363	271040	465.7	433.7
Sum Aroclor-1016			866487	652751	2188.4	2063.5
Average Aroclor-1016					437.684	412.705
17) L7 Aroclor-1260	14.72	15.12	350474	250772	528.8	458.9
18) L7 Aroclor-1260 {2}	14.92	15.27	188972	126717	483.2	410.2
19) L7 Aroclor-1260 {3}	15.00	15.36	112515	75904	348.8	360.0
20) L7 Aroclor-1260 {4}	15.36	15.78	170553	137976	592.4	451.3
21) L7 Aroclor-1260 {5}	15.89	16.18	401384	257273	448.9	445.5
Sum Aroclor-1260			1223899	848642	2402.0	2125.9
Average Aroclor-1260					480.408	425.180

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

Continuing Calibration Report HP_14

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Fri Aug 24 12:47:57 2001
Response via : Initial Calibration

Continuing Calibration File: 14082245.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	10.287	10.726	E3	-4.3	108
2	L1	Aroclor-1016	254.069	290.104		-14.2	115
3	L1	Aroclor-1016 {2}	596.120	647.730		-8.7	110
4	L1	Aroclor-1016 {3}	731.960	934.925		-27.7#	132
5	L1	Aroclor-1016 {4}	205.000	254.332		-24.1#	121
6	L1	Aroclor-1016 {5}	209.080	275.414		-31.7#	129
17	L7	Aroclor-1260	662.753	988.090		-49.1#	144
18	L7	Aroclor-1260 {2}	391.053	520.277		-33.0#	128
19	L7	Aroclor-1260 {3}	322.608	291.972		9.5	88
20	L7	Aroclor-1260 {4}	287.927	479.407		-66.5#	160#
21	L7	Aroclor-1260 {5}	894.214	1049.941		-17.4#	118
22	S	DCB	10.074	10.473	E3	-4.0	101
		Average %Dev				58.64	

Signal #2
Continuing Calibration File: 14082245.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	9.401	10.065	E3	-7.1	112
2	L1	Aroclor-1016	200.731	232.836		-16.0#	119
3	L1	Aroclor-1016 {2}	452.367	522.897		-15.6#	119
4	L1	Aroclor-1016 {3}	113.596	132.388		-16.5#	118
5	L1	Aroclor-1016 {4}	171.742	206.223		-20.1#	119
6	L1	Aroclor-1016 {5}	624.934	795.165		-27.2#	125
17	L7	Aroclor-1260	546.426	689.056		-26.1#	122
18	L7	Aroclor-1260 {2}	308.887	342.603		-10.9	108
19	L7	Aroclor-1260 {3}	210.868	198.923		5.7	93
20	L7	Aroclor-1260 {4}	305.754	376.057		-23.0#	118
21	L7	Aroclor-1260 {5}	577.482	672.223		-16.4#	107
22	S	DCB	6.461	6.618	E3	-2.4	100
		Average %Dev				53.96	

(#) = Out of Range SPCC's out = 0 CCC's out = 0

14082245.D XPCBH20.M Fri Aug 24 12:48:06 2001

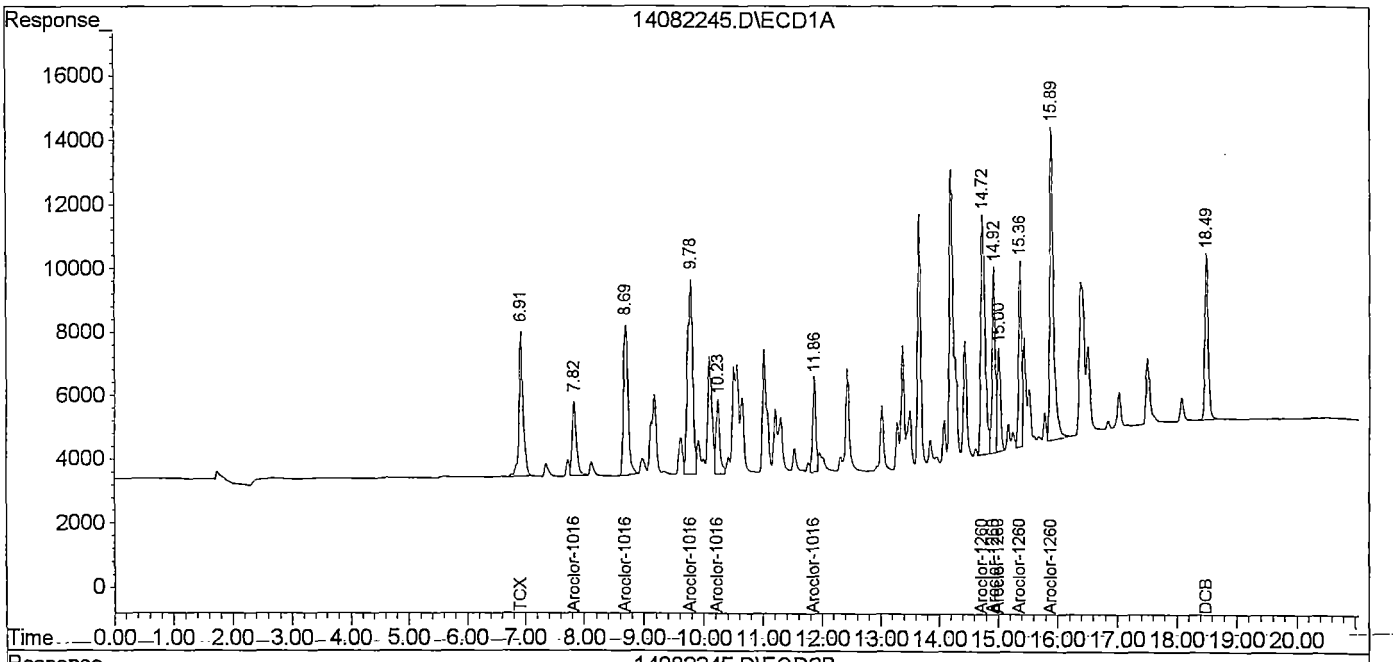
Chromatographic Report

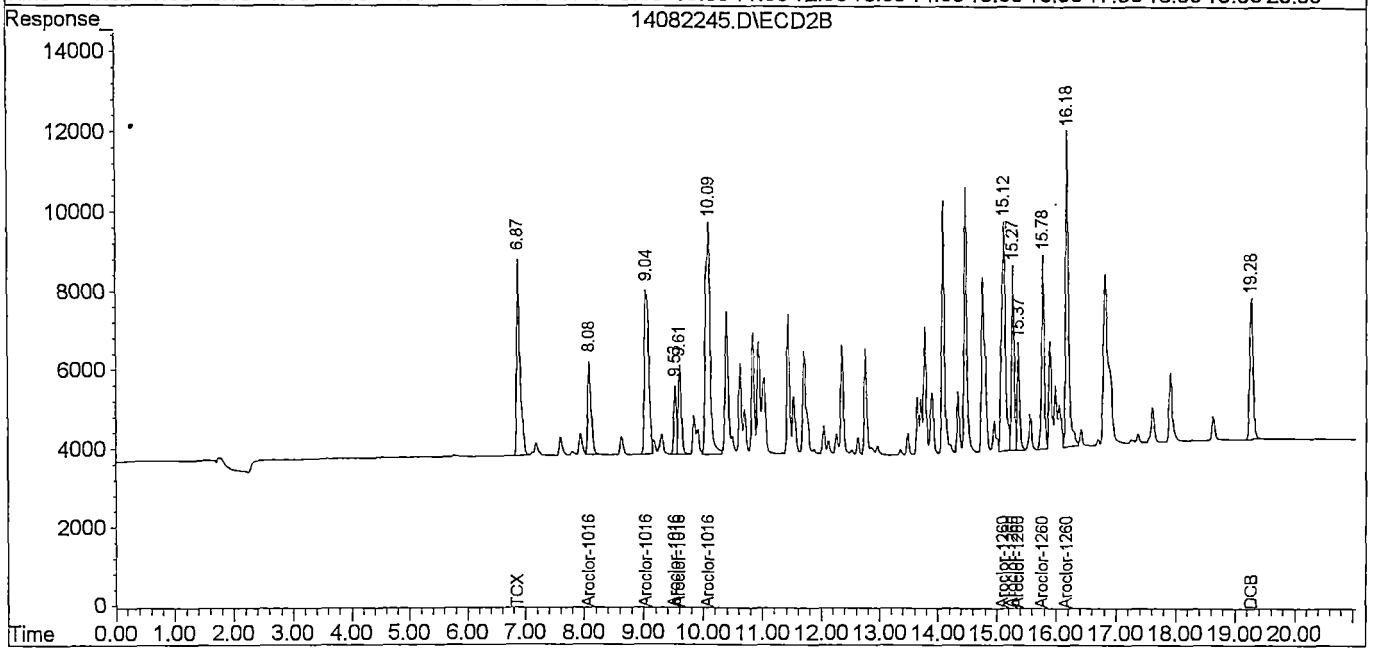
Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082245.D\ECD1A.CH Vial: 45
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082245.D\ECD2B.CH
Acq On : 23 Aug 2001 4:02 Operator: TLM
Sample : AR1660L3AD Inst : HP_14
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 24 12:43 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

ok
8-27-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082245.D\ECD1A.CH Vial: 45
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082245.D\ECD2B.CH
Acq On : 23 Aug 2001 4:02 Operator: TLM
Sample : AR1660L3AD Inst : HP_14
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 24 12:43 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	6.91	6.88	214519	201298	20.9	21.4	
22)	S DCB	18.50	19.28	209459	132363	20.8	20.5	
	Target Compounds:							
2)	L1 Aroclor-1016	7.82	8.09	116042	93134	456.7	464.0	
3)	L1 Aroclor-1016 {2}	8.69	9.04	259092	209159	434.6	462.4	
4)	L1 Aroclor-1016 {3}	9.78	9.53	373970	52955	510.9	466.2	
5)	L1 Aroclor-1016 {4}	10.23	9.61	101733	82489	496.3	480.3	
6)	L1 Aroclor-1016 {5}	11.86	10.09	110166	318066	526.9	509.0	
	Sum Aroclor-1016			961002	755803	2425.4	2381.8	
	Average Aroclor-1016					485.088	476.356	
17)	L7 Aroclor-1260	14.72	15.12	395236	275622	596.4	504.4	
18)	L7 Aroclor-1260 {2}	14.92	15.27	208111	137041	532.2	443.7	
19)	L7 Aroclor-1260 {3}	15.00	15.37	116789	79569	362.0	377.3	
20)	L7 Aroclor-1260 {4}	15.36	15.78	191763	150423	666.0	492.0	#
21)	L7 Aroclor-1260 {5}	15.89	16.18	419976	268889	469.7	465.6	
	Sum Aroclor-1260			1331875	911545	2626.2	2283.0	
	Average Aroclor-1260					525.245	456.602	

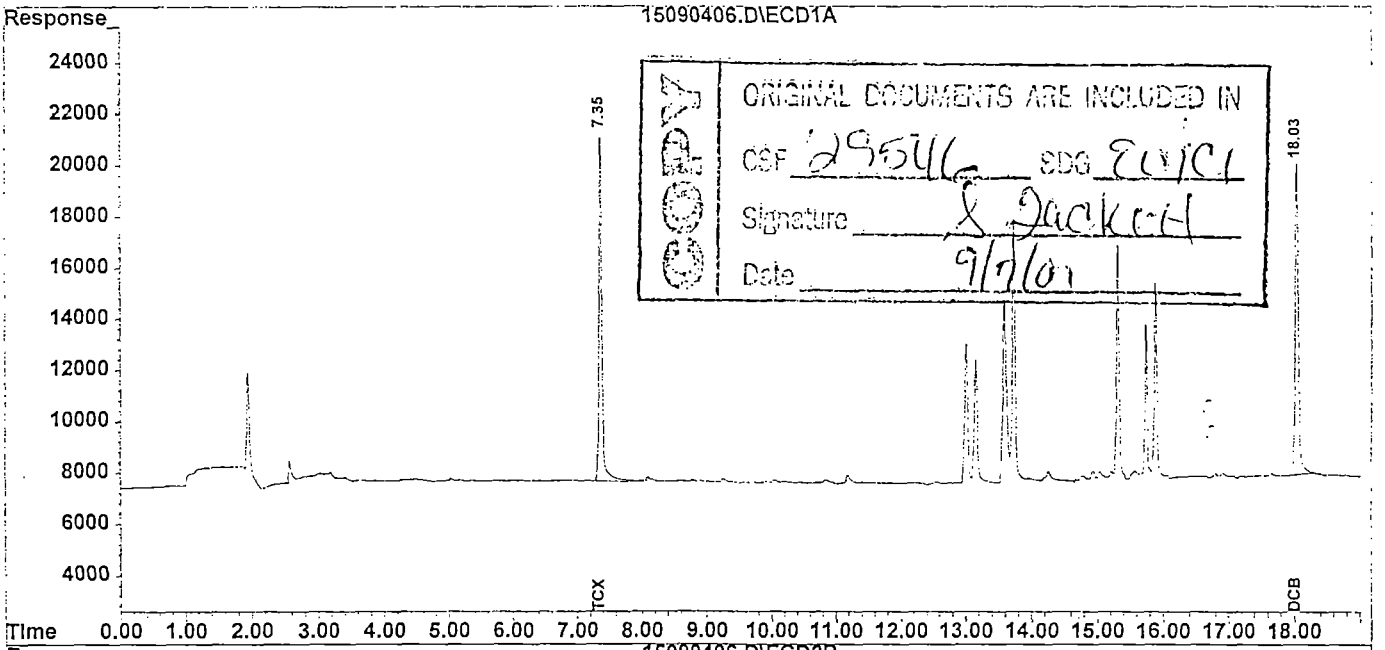
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

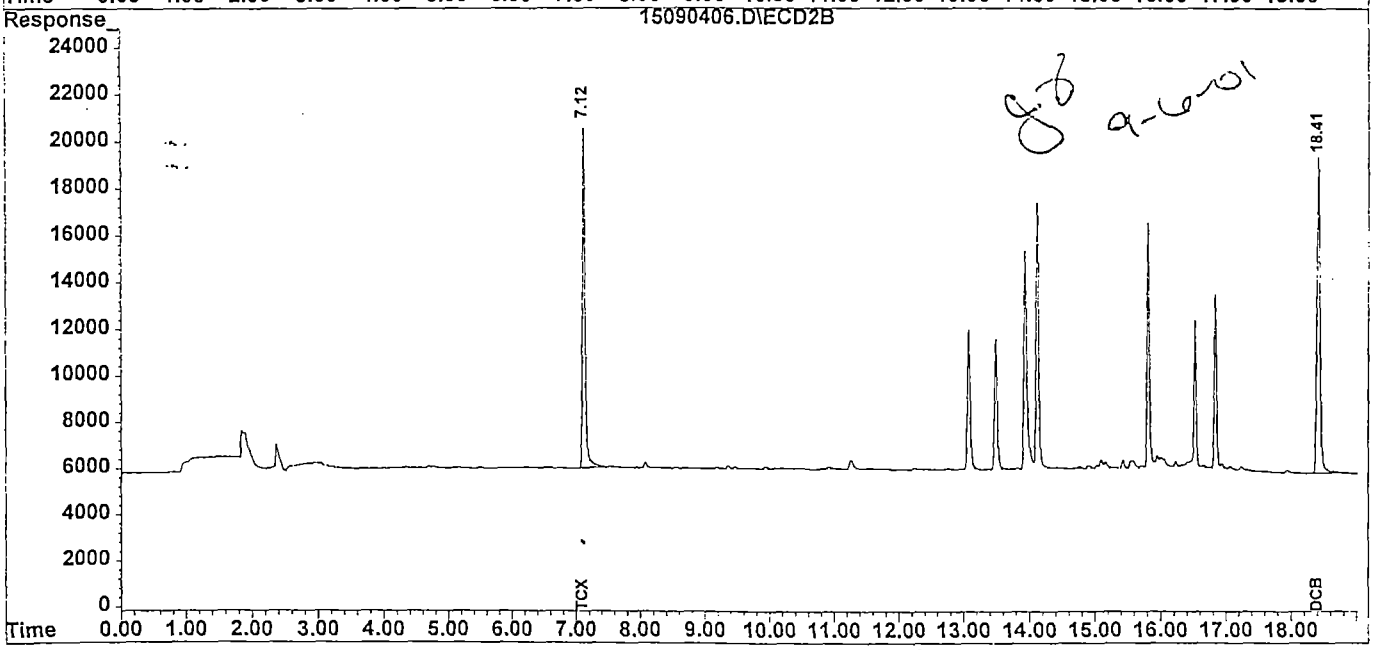
Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090406.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090406.D\ECD2B.CH
Acq On : 04 Sep 2001 13:42 Operator: DDC
Sample : RESCBG Inst : HP_15
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 9:28 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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



COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29546 SDG EWCI
Signature S Jackett
Date 9/7/01



9-6-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090406.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090406.D\ECD2B.CH
Acq On : 04 Sep 2001 13:42 Operator: DDC
Sample : RESCBG Inst : HP_15
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 9:28 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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	7.36	7.12	431253	436263	18.7	16.3
22)	S DCB	18.03	18.42	421252	450919	17.5	16.4
	Target Compounds:						

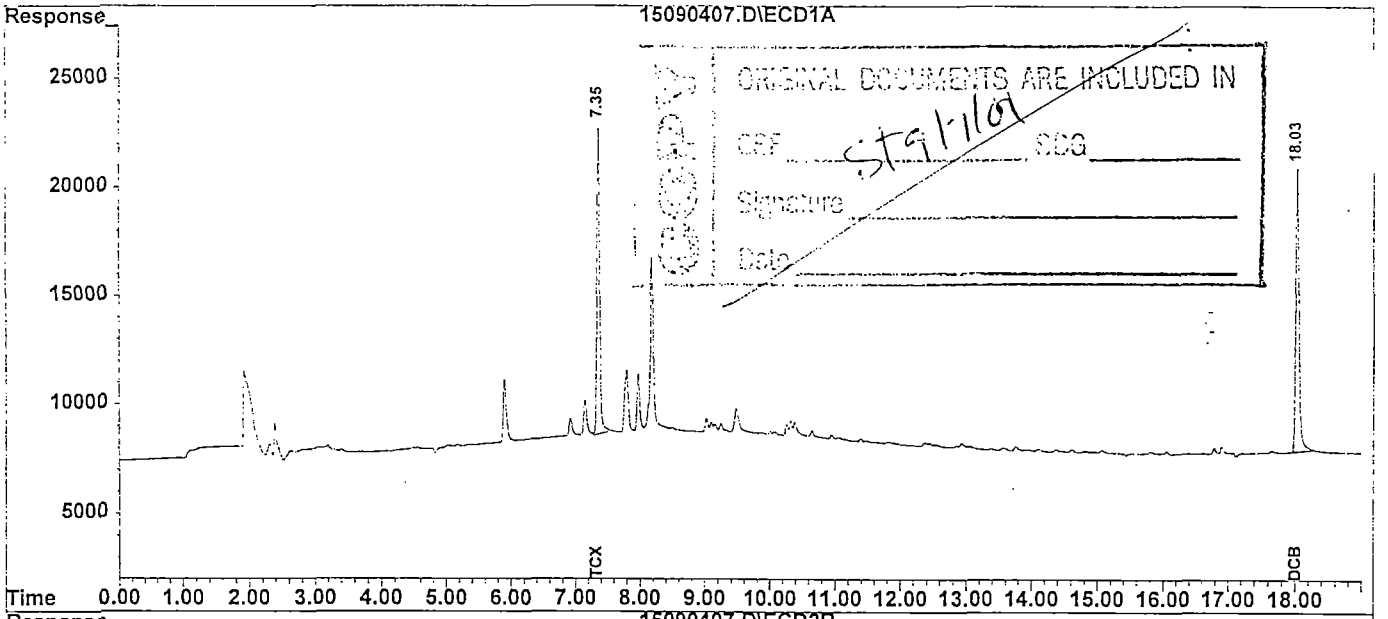
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

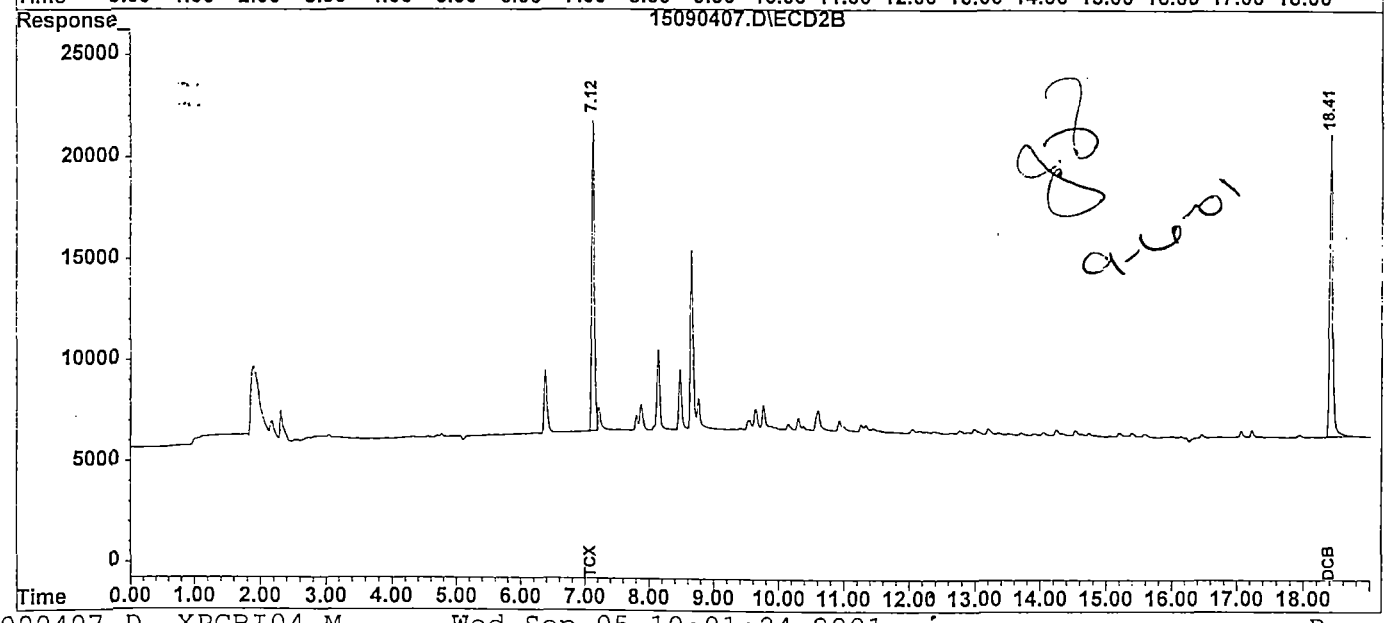
Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090407.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090407.D\ECD2B.CH
Acq On : 04 Sep 2001 14:05 Operator: DDC
Sample : AR1221L3BG Inst : HP_15
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 9:59 2001 Quant Results File: XPCBI04.RES
Quant Time: Sep 5 9:28 2001 Quant Results File: xspcbi04.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 2001

Multi-Component Method : f:\hpchem\hp\15\data\09_04_01\xspcbi04.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



ORIGINAL DOCUMENTS ARE INCLUDED IN
CRF 5/9/1/01 SDG
Signature
Date



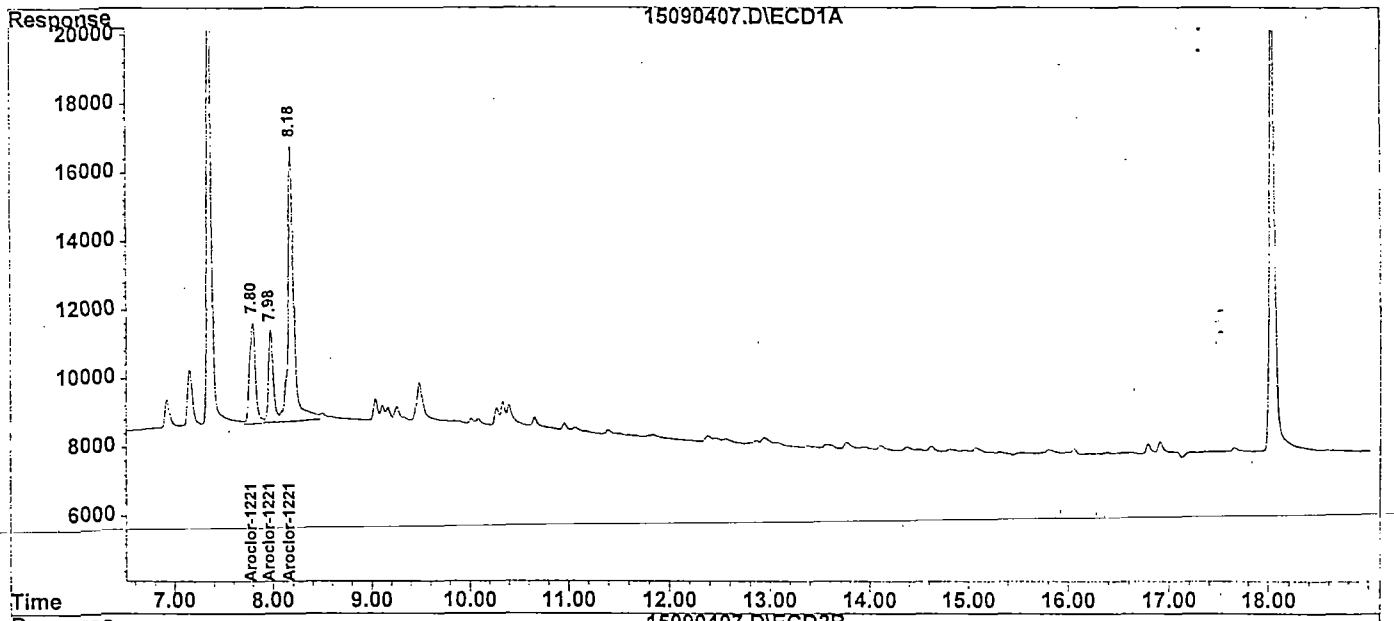
9-6-01

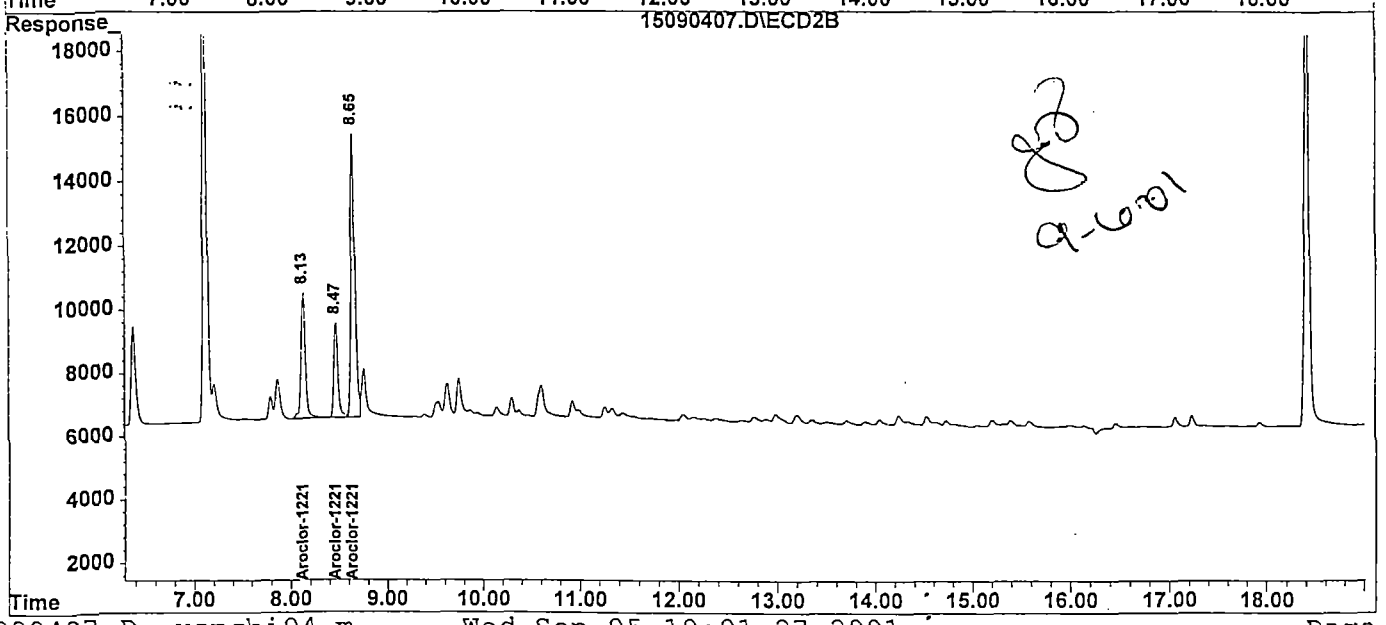
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090407.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090407.D\ECD2B.CH
Acq On : 04 Sep 2001 14:05 Operator: DDC
Sample : AR1221L3BG Inst : HP_15
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 9:28 2001 Quant Results File: xspcbi04.RES
Quant Time: Sep 5 9:28 2001 Quant Results File: xspcbi04.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 2001

Multi-Component Method : f:\hpchem\hp\15\data\09_04_01\xspcbi04.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 Signal #2 Info : .32
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





9-6-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090407.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090407.D\ECD2B.CH
Acq On : 04 Sep 2001 14:05 Operator: DDC
Sample : AR1221L3BG Inst : HP_15
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 9:59 2001 Quant Results File: XPCBI04.RES
Multi Time: Sep 5 9:28 2001 Quant Results File: xspcbi04.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 2001

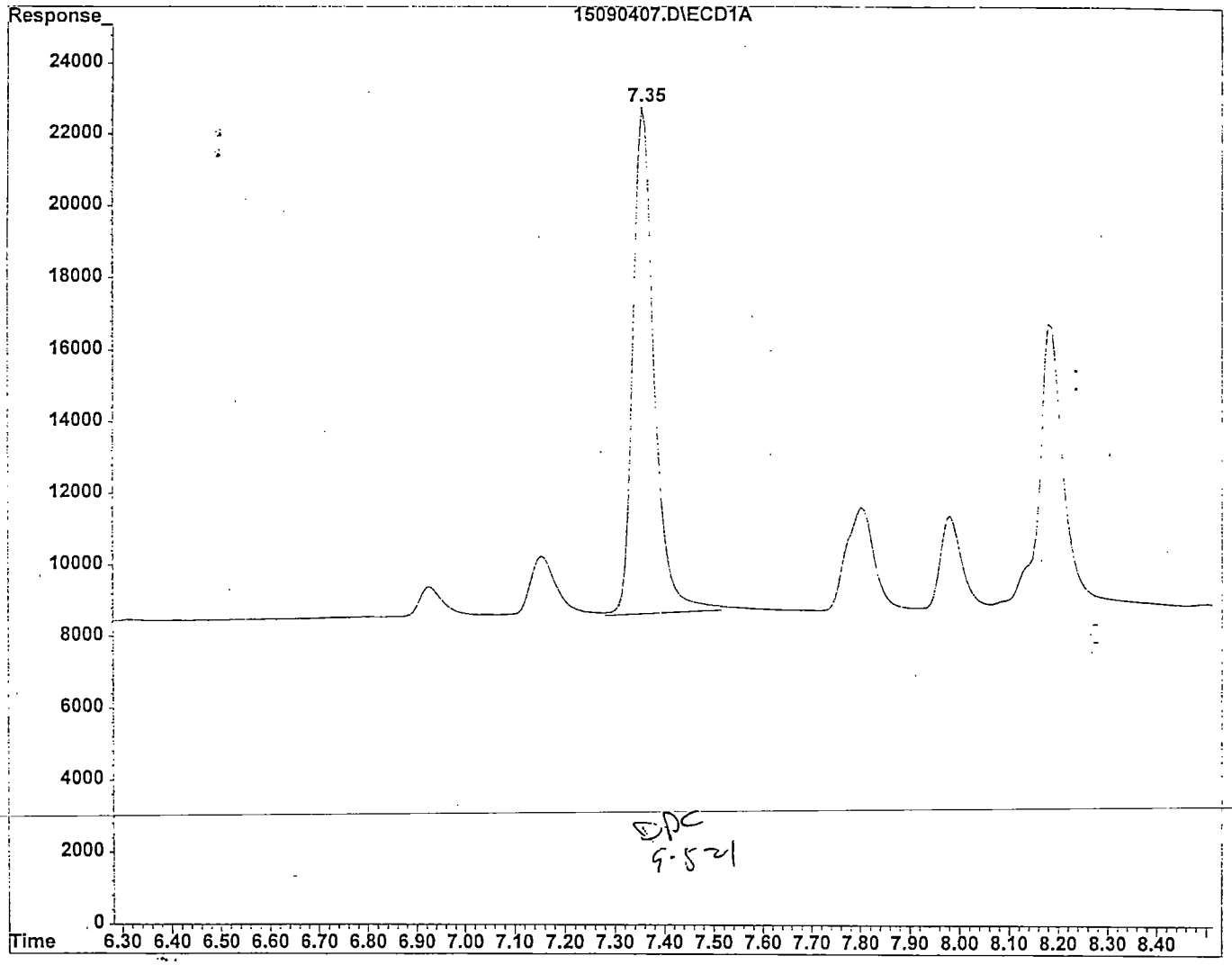
Multi-Component Method : f:\hpchem\hp\15\data\09_04_01\xspcbi04.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.35	7.12	417443	426077	18.1m	15.9
22)	S DCB	18.04	18.42	448163	495118	18.6	18.0
	Target Compounds:						
	Multi-Component Compounds:						
2)	L2 Aroclor-1221	7.80	8.13	123106	128742	371.8	313.5
3)	L2 Aroclor-1221 {2}	7.98	8.47	86604	89554	374.7	314.3
4)	L2 Aroclor-1221 {3}	8.18	8.66	320422	266044	383.3	330.9
	Sum Aroclor-1221			530132	484340	1129.7	958.7
	Average Aroclor-1221					376.576	319.559

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\09_04_01\15090407.D
Date Acquired: 04 Sep 2001 14:05
Inst: HP_15 Operator ID: DDC
Name: AR1221L3BG
Misc: 5-420-6
Method: F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title: PCB/TOXAPHENE
Quant Time: Sep 5 9:59 2001 Quant Results File: XPCBI04.RES



TCX 7.35min area: 417443 m

Integration Time Range: 7.28 - 7.51

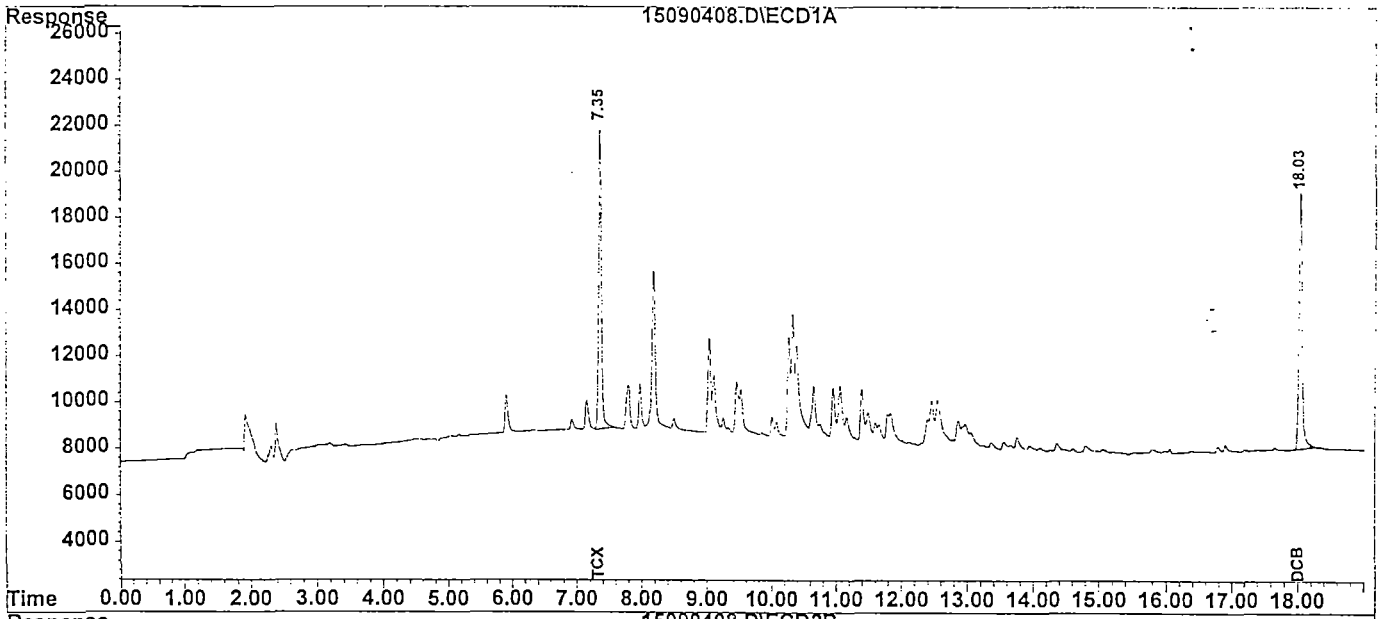
F:\HPCHEM\HP\15\DATA\09_04_01\15090407.D
Report generated: Wed Sep 05 10:00:07 2001

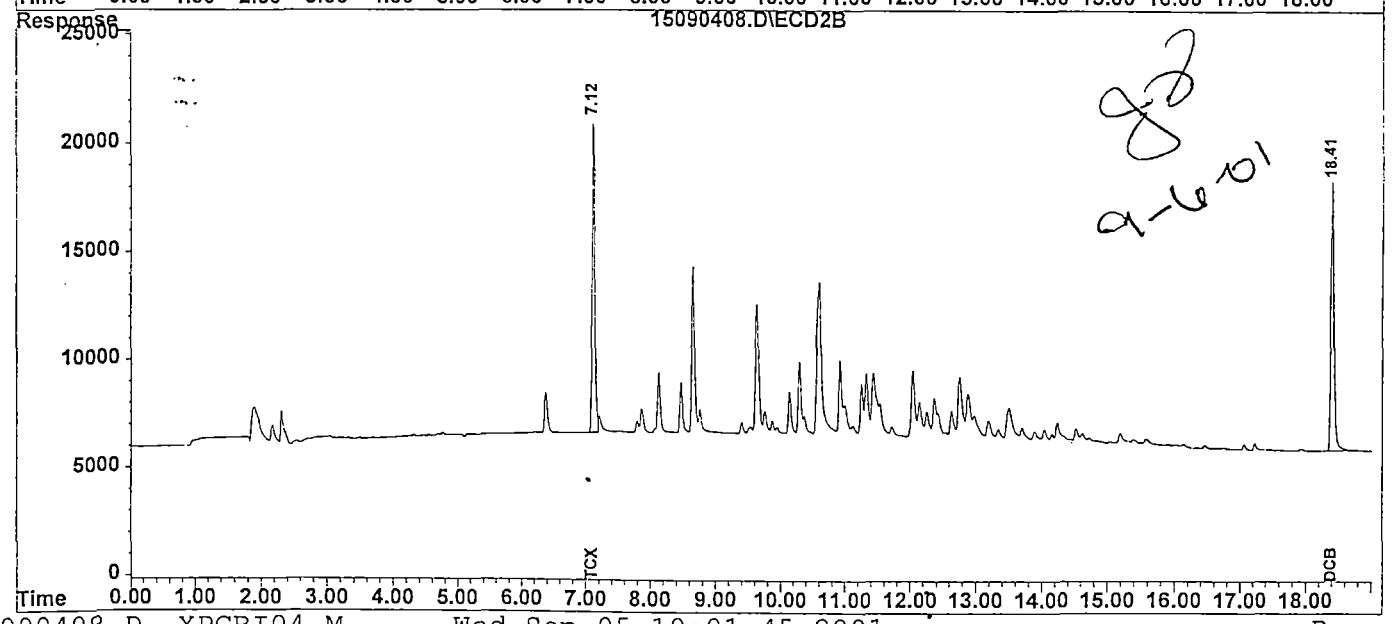
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090408.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090408.D\ECD2B.CH
Acq On : 04 Sep 2001 14:29 Operator: DDC
Sample : AR1232L3BG Inst : HP_15
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 9:59 2001 Quant Results File: XPCBI04.RES
Quant Time: Sep 5 9:30 2001 Quant Results File: xspcbi04.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 2001

Multi-Component Method : f:\hpchem\hp\15\data\09_04_01\xspcbi04.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





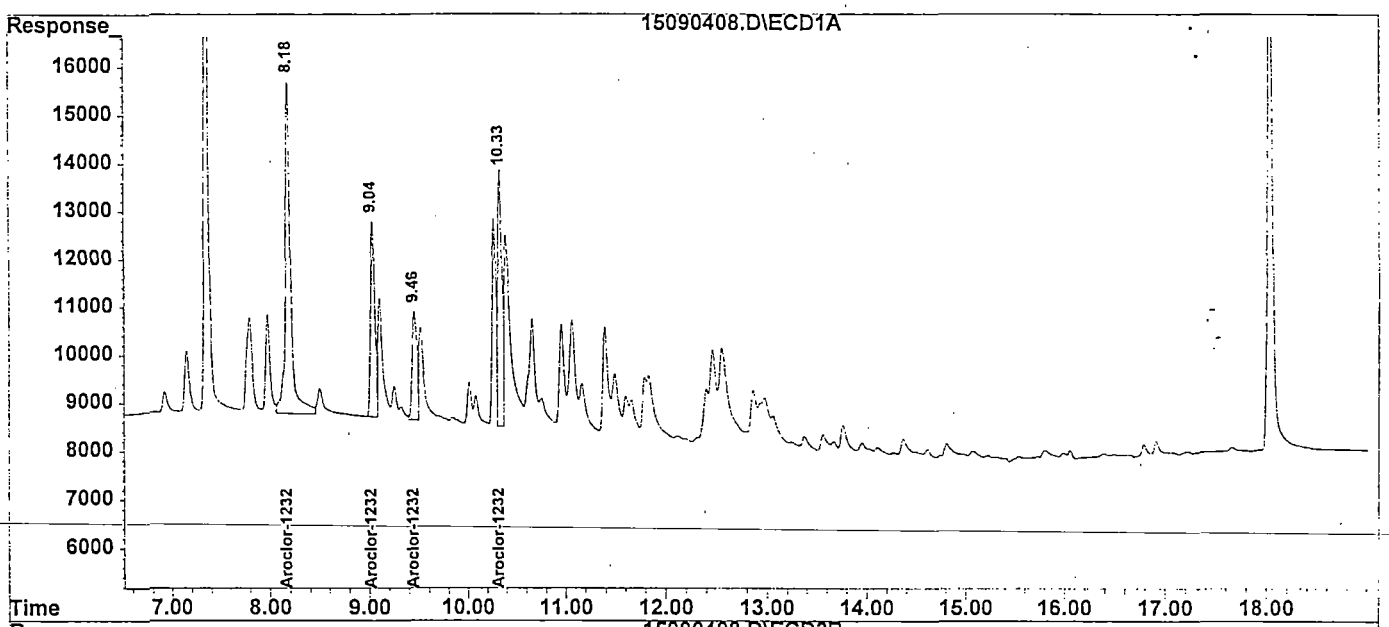
9-6-01

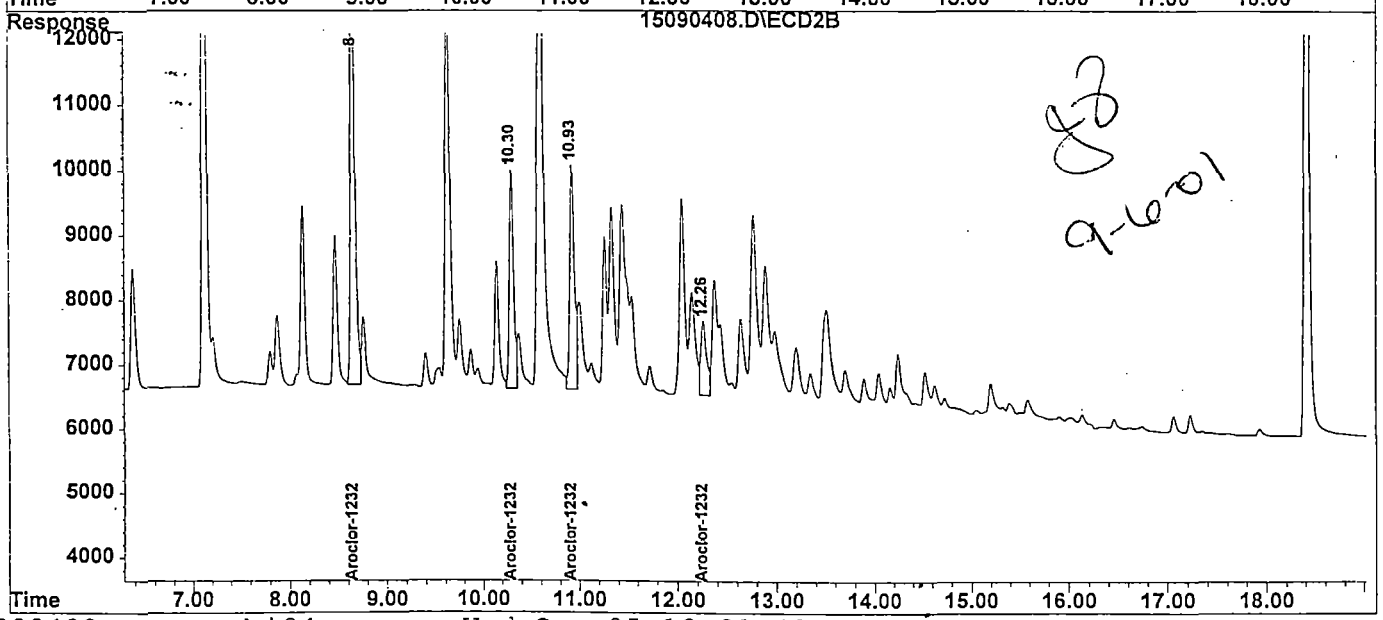
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090408.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090408.D\ECD2B.CH
Acq On : 04 Sep 2001 14:29 Operator: DDC
Sample : AR1232L3BG Inst : HP_15
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 9:30 2001 Quant Results File: xspcbi04.RES
Quant Time: Sep 5 9:30 2001 Quant Results File: xspcbi04.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 2001

Multi-Component Method : f:\hpchem\hp\15\data\09_04_01\xspcbi04.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 Signal #2 Info : .32
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





9-6-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090408.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090408.D\ECD2B.CH
Acq On : 04 Sep 2001 14:29 Operator: DDC
Sample : AR1232L3BG Inst : HP_15
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 9:59 2001 Quant Results File: XPCBI04.RES
Multi Time: Sep 5 9:30 2001 Quant Results File: xspcbi04.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 2001

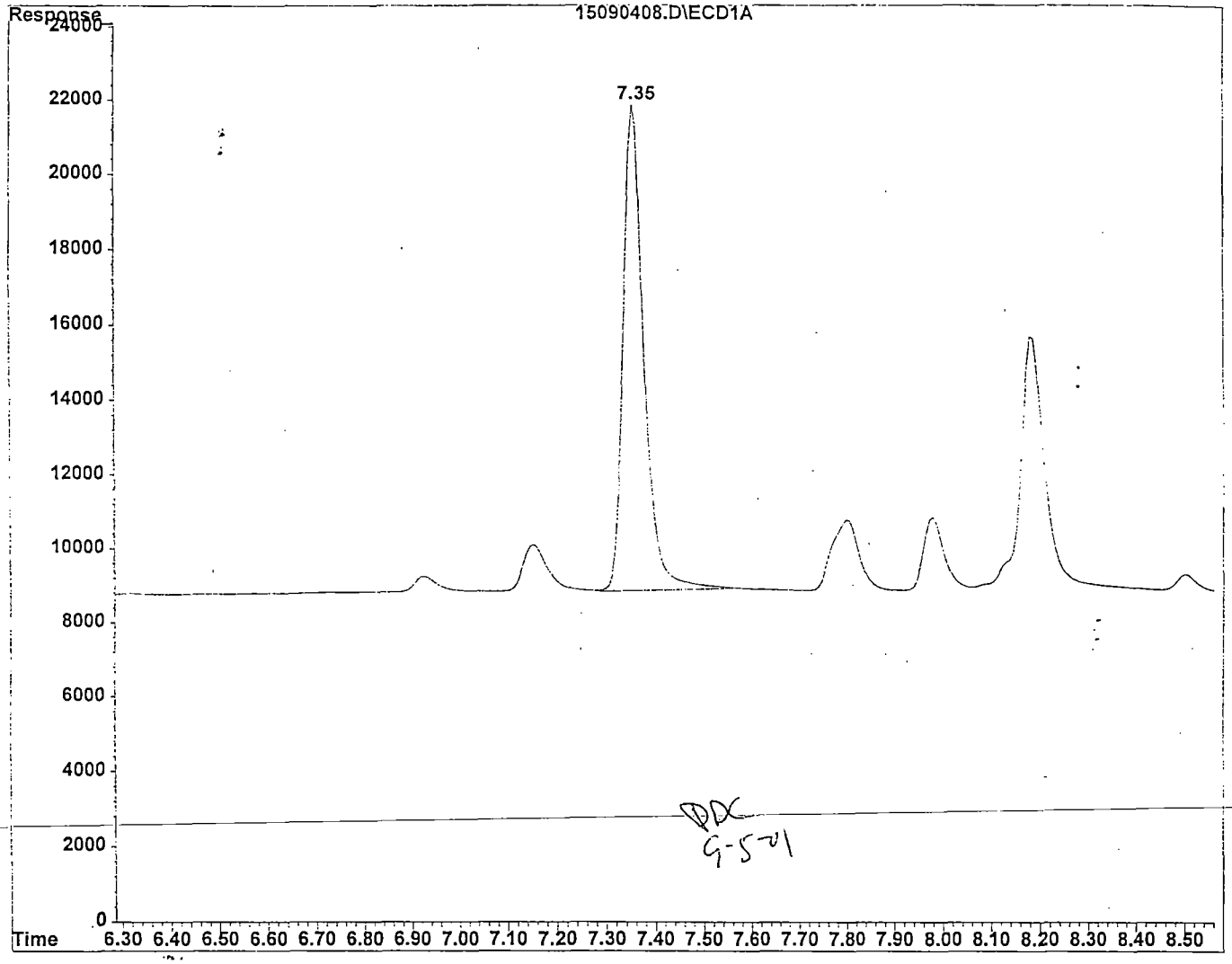
Multi-Component Method : f:\hpchem\hp\15\data\09_04_01\xspcbi04.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.35	7.12	382963	403821	16.6m DDC 9-5-21	15.1
22)	S DCB	18.04	18.42	384719	422841	16.0	15.4
	Target Compounds:						
	Multi-Component Compounds:						
5)	L3 Aroclor-1232	8.19	8.66	268956	231850	341.8	309.7
6)	L3 Aroclor-1232 {2}	9.04	10.30	119479	106084	321.8	301.2
7)	L3 Aroclor-1232 {3}	9.46	10.93	75660	115965	320.9	309.5
8)	L3 Aroclor-1232 {4}	10.34	12.26	159227	48180	326.6	292.4
	Sum Aroclor-1232			623322	502079	1311.1	1212.8
	Average Aroclor-1232					327.781	303.189

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\09_04_01\15090408.D
Date Acquired: 04 Sep 2001 14:29
Inst: HP_15 Operator ID: DDC
Name: AR1232L3BG
Misc: 5-422-6
Method: F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title: PCB/TOXAPHENE
Quant Time: Sep 5 9:59 2001 Quant Results File: XPCBI04.RES



TCX 7.35min area: 382963 m

Integration Time Range: 7.29 - 7.56

F:\HPCHEM\HP\15\DATA\09_04_01\15090408.D
Report generated: Wed Sep 05 10:00:10 2001

Response Factor Report HP_15

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 2001
Response via : Initial Calibration

Calibration Files
L1 =15090409.D L2 =15090410.D L3 =15090411.D
L4 =15090412.D L5 =15090413.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
7) Aroclor-1242	546.1	481.4	473.9	412.7	393.8	461.6	13.12
8) Aroclor-1242 {2}	304.6	295.5	300.1	267.4	255.2	284.6	7.69
9) Aroclor-1242 {3}	964.7	918.6	913.6	798.7	762.3	871.6	9.92
10) Aroclor-1242 {4}	300.2	293.8	307.6	274.3	262.3	287.6	6.53
11) Aroclor-1242 {5}	359.9	366.6	401.6	361.2	343.7	366.6	5.82

Signal #2 Calibration Files
L1 =15090409.D L2 =15090410.D L3 =15090411.D
L4 =15090412.D L5 =15090413.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
30) Aroclor-1242 #2	310.3	296.4	303.9	267.1	264.3	288.4	7.39
31) Aroclor-1242 {2} #2	558.9	547.7	552.6	495.6	485.1	528.0	6.59
32) Aroclor-1242 {3} #2	606.8	604.3	604.7	539.1	518.2	574.6	7.42
33) Aroclor-1242 {4} #2	346.9	337.6	354.7	325.7	321.9	337.4	4.10
34) Aroclor-1242 {5} #2	688.2	691.8	694.4	623.5	608.5	661.3	6.31

(#) = Out of Range

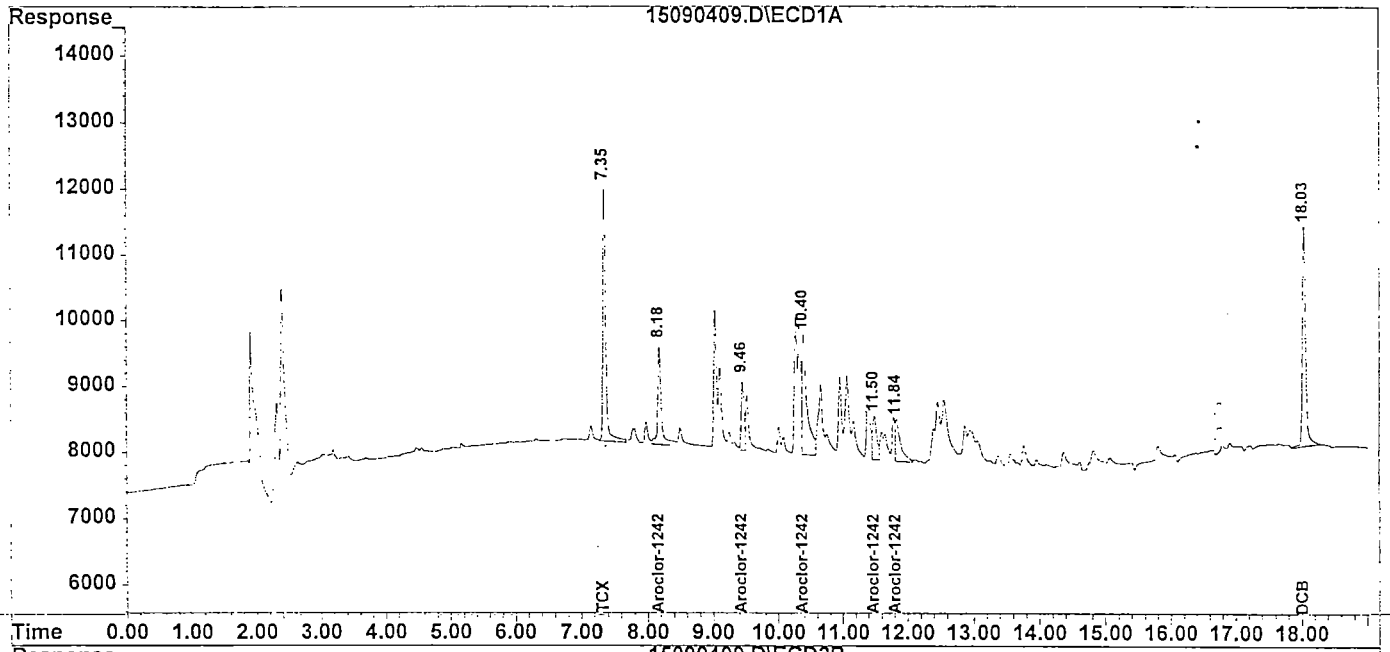
XPCBI04.M Wed Sep 05 08:24:44 2001

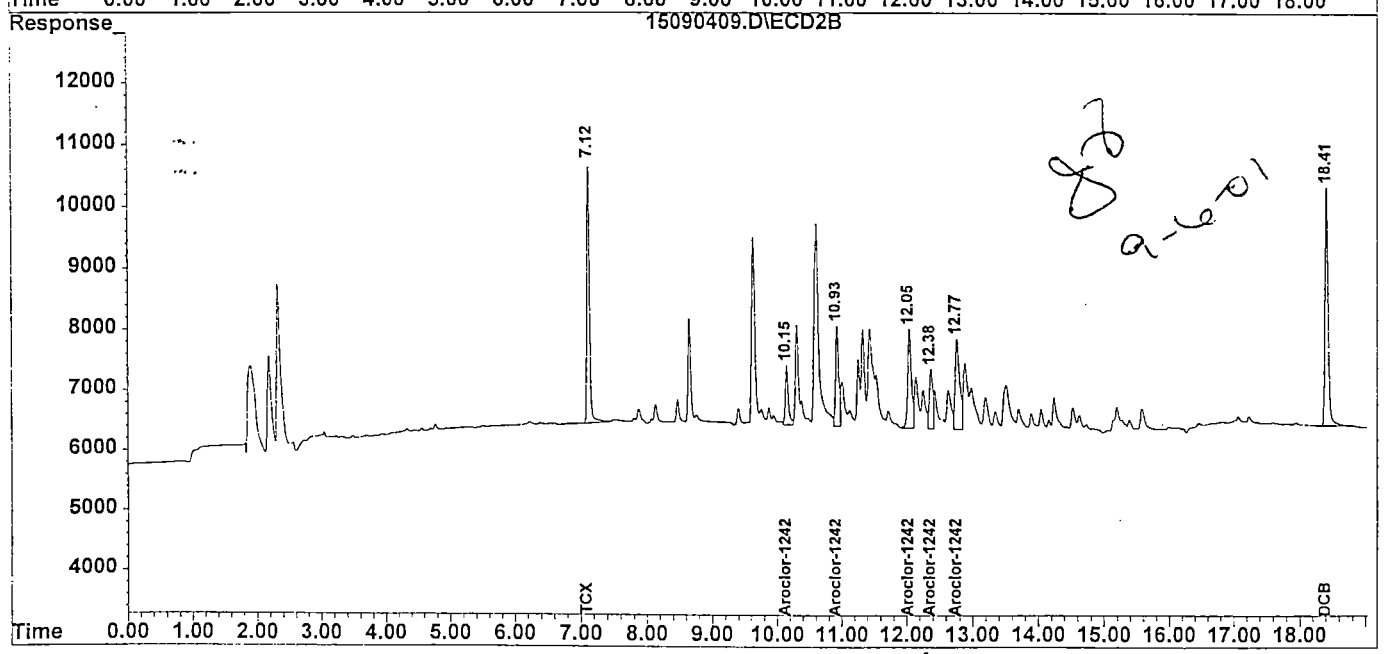
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090409.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090409.D\ECD2B.CH
Acq On : 04 Sep 2001 14:52 Operator: DDC
Sample : AR1242L1BG Inst : HP_15
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:20 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\08_27_01\
Last Update : Tue Aug 21 14:24:35 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\09_04_01\15090409.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090409.D\ECD2B.CH
Acq On : 04 Sep 2001 14:52 Operator: DDC
Sample : AR1242L1BG Inst : HP_15
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:20 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\08_27_01\
Last Update : Tue Aug 21 14:24:35 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	7.36	7.12	115981	122412	4.844	4.009	
22)	S DCB	18.04	18.42	117028	128625	4.965	4.495	
	Target Compounds:							
7)	L4 Aroclor-1242	8.19	10.15	54607	31028	105.5	88.5	
8)	L4 Aroclor-1242 {2}	9.46	10.93	30456	55893	92.6	90.9	
9)	L4 Aroclor-1242 {3}	10.40	12.05	96474	60683	96.4	89.9	
10)	L4 Aroclor-1242 {4}	11.50	12.38	30019	34686	96.6	53.0	#
11)	L4 Aroclor-1242 {5}	11.84	12.77	35994	68824	93.7	89.3	
	Sum Aroclor-1242			247550	251115	484.8	411.7	
	Average Aroclor-1242					96.956	82.349	

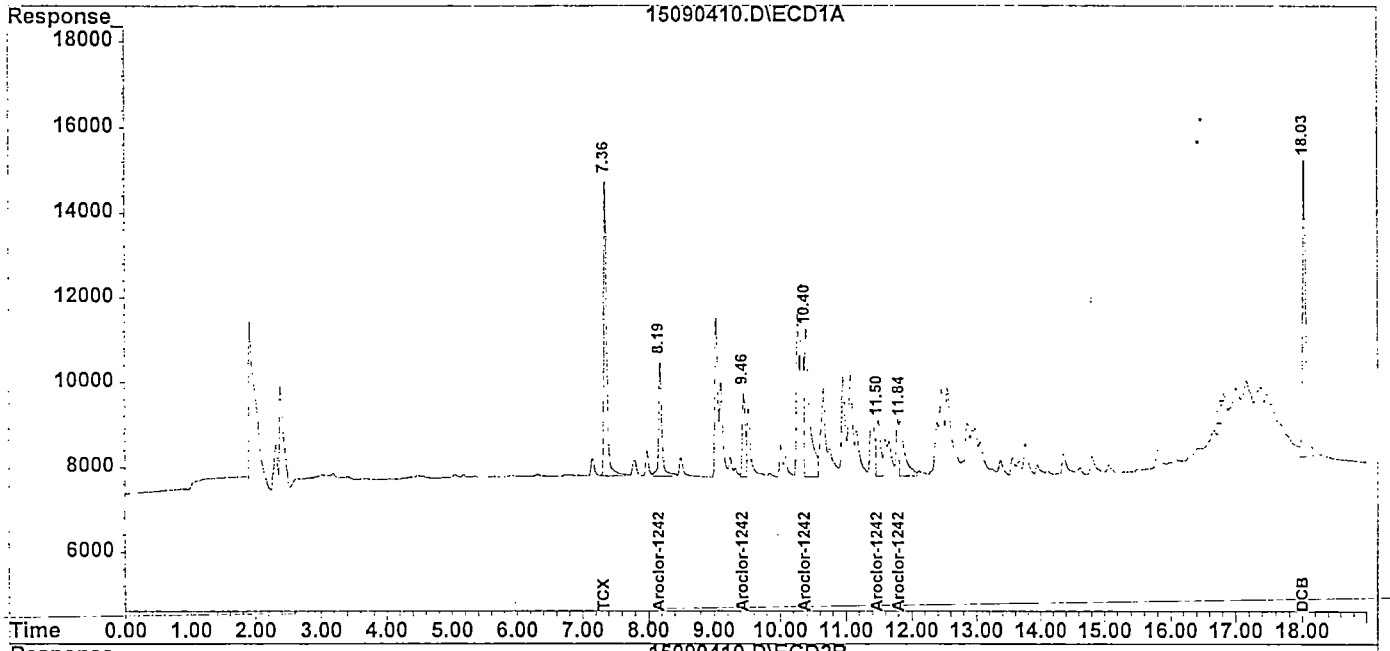
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

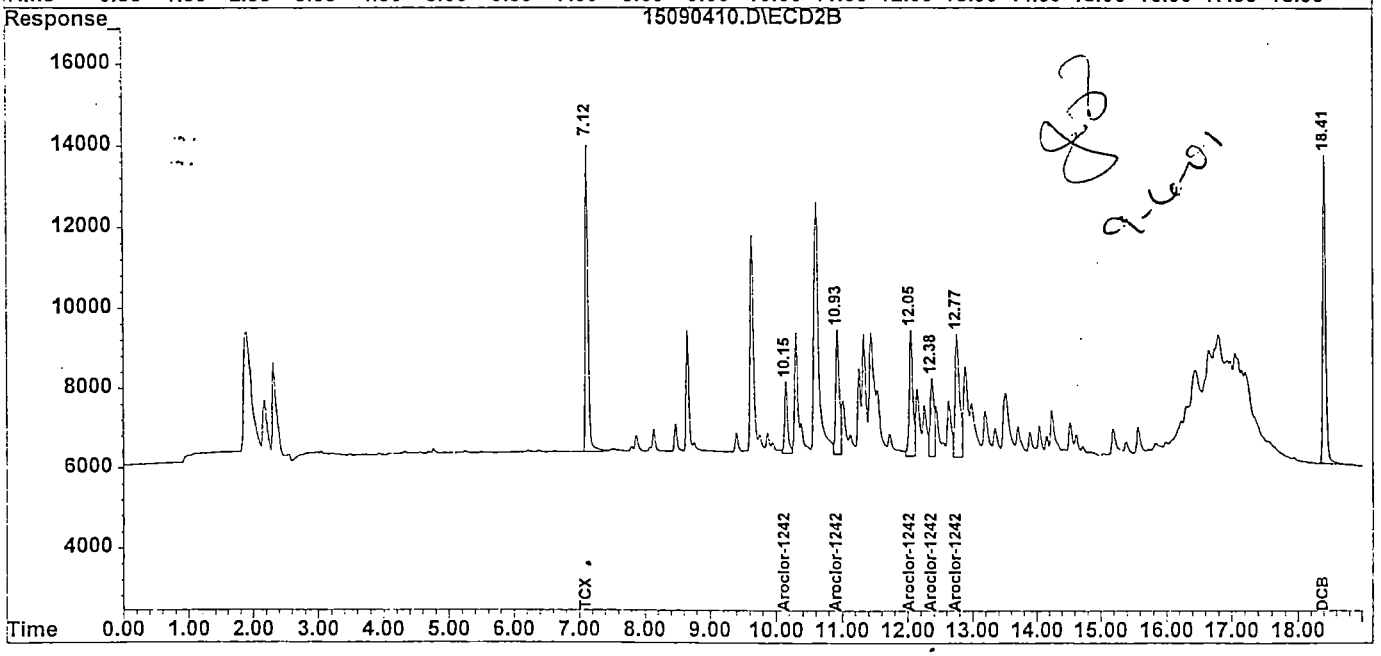
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090410.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090410.D\ECD2B.CH
Acq On : 04 Sep 2001 15:15 Operator: DDC
Sample : AR1242L2BG Inst : HP_15
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:24 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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





9-6-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090410.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090410.D\ECD2B.CH
Acq On : 04 Sep 2001 15:15 Operator: DDC
Sample : AR1242L2BG Inst : HP_15
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:24 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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

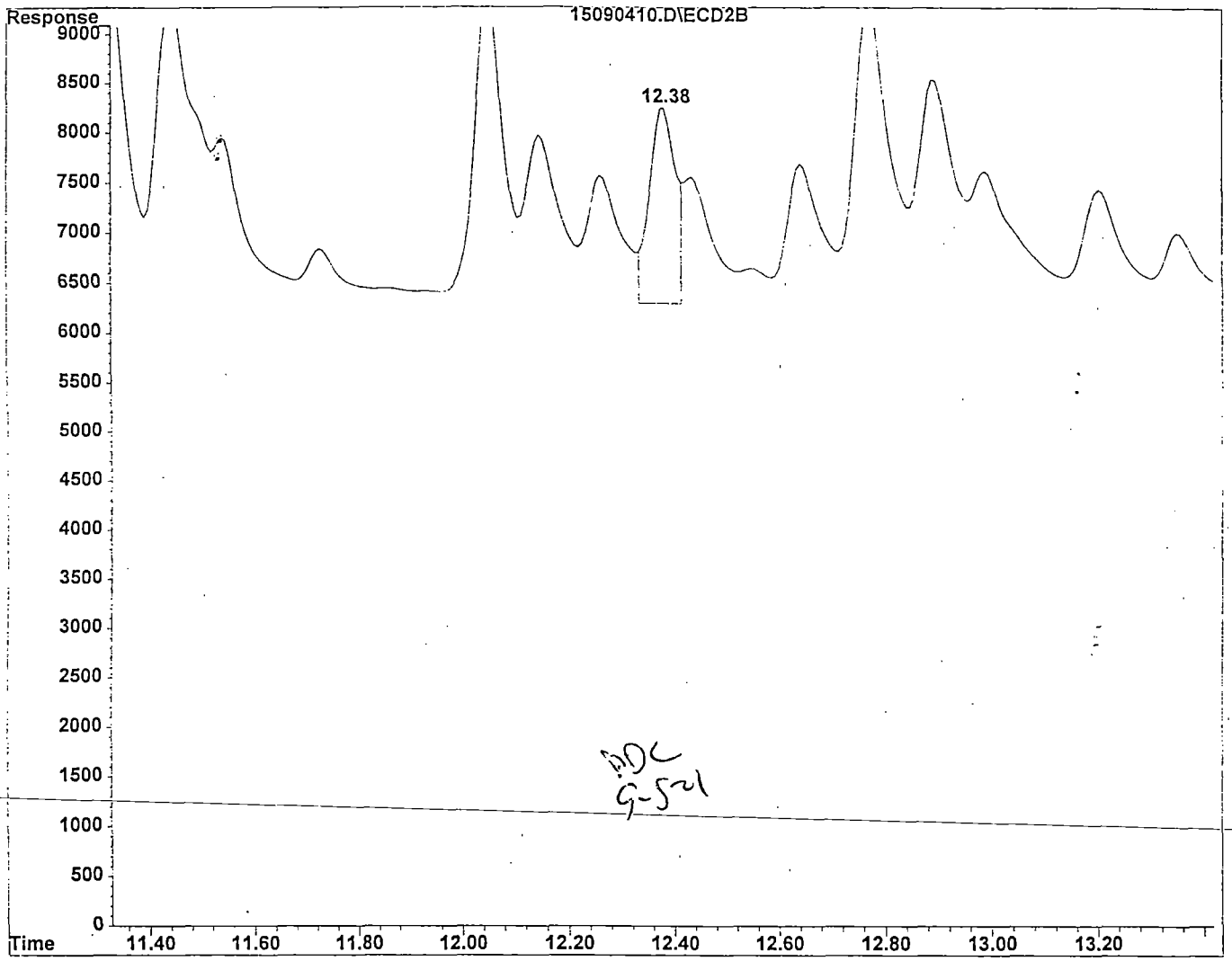
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.36	7.12	208742	226498	8.774	7.721
22)	S DCB	18.04	18.42	241679	249471	10.4	9.053
	Target Compounds:						
7)	L4 Aroclor-1242	8.19	10.15	96277	59283	189.6	176.9
8)	L4 Aroclor-1242 {2}	9.46	10.93	59104	109543	184.2	181.9
9)	L4 Aroclor-1242 {3}	10.40	12.05	183711	120850	190.0	185.4
10)	L4 Aroclor-1242 {4}	11.50	12.38	58753	67512	192.2	116.3m #
11)	L4 Aroclor-1242 {5}	11.84	12.77	73326	138365	194.1	184.9
	Sum Aroclor-1242			471170	495554	950.0	845.4
	Average Aroclor-1242					190.005	169.076

DK 9-5-2001

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\09_04_01\15090410.D
Date Acquired: 04 Sep 2001 15:15
Inst: HP_15 Operator ID: DDC
Name: AR1242L2BG
Misc: 5-10-7
Method: F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title: PCB/TOXAPHENE
Quant Time: Sep 5 8:24 2001 Quant Results File: XPCBI04.RES



Aroclor-1242 {4} #2 12.38min area: 67512 m

Integration Time Range: 12.33 - 12.42

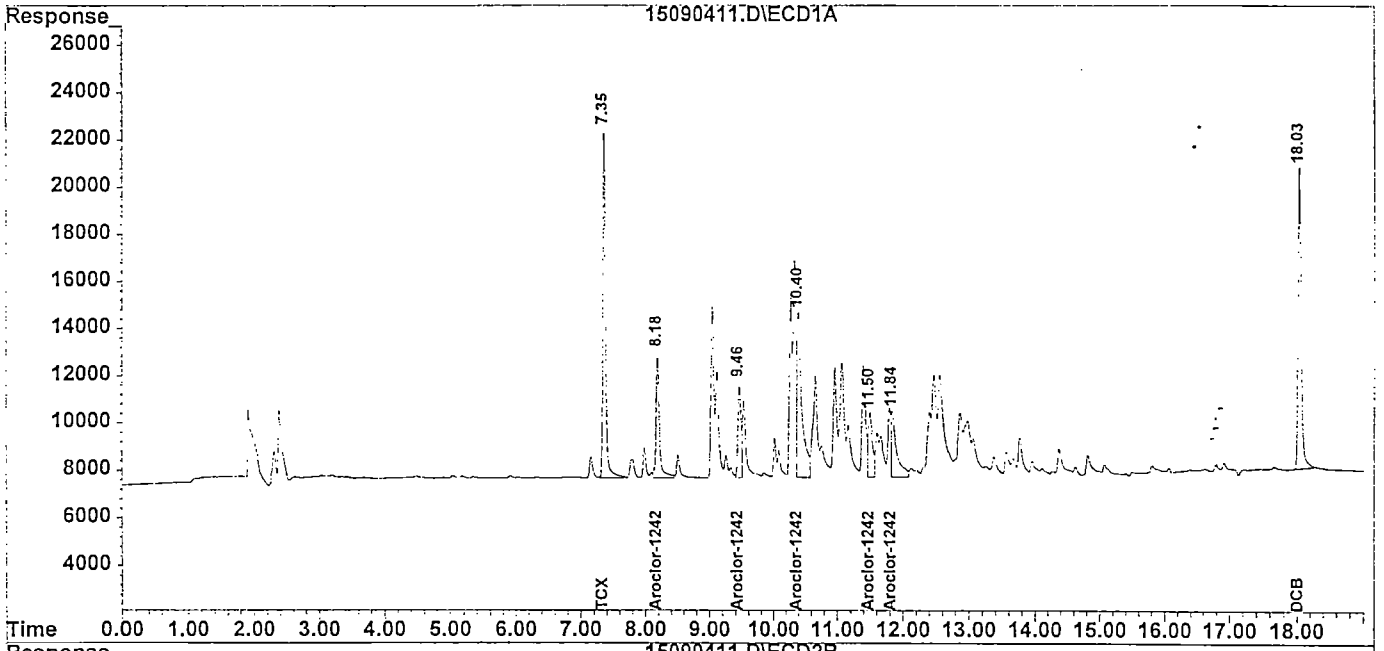
F:\HPCHEM\HP\15\DATA\09_04_01\15090410.D
Report generated: Wed Sep 05 08:28:18 2001

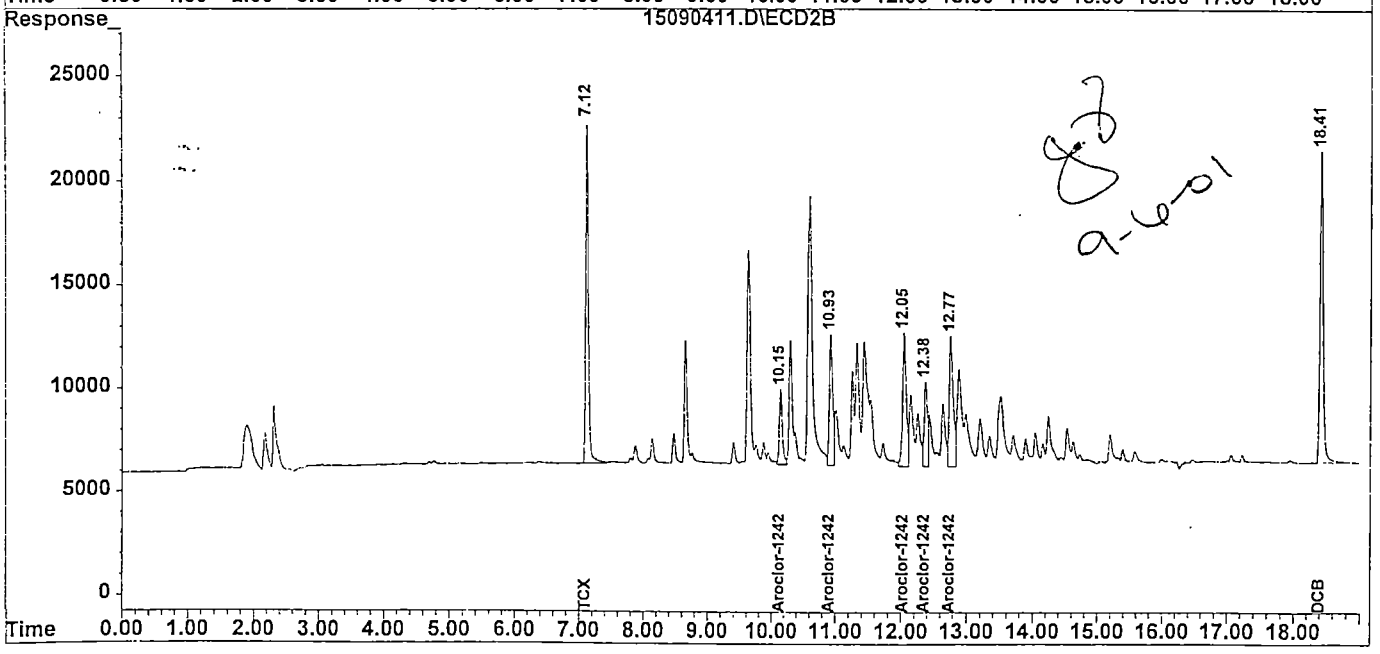
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090411.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090411.D\ECD2B.CH
Acq On : 04 Sep 2001 15:38 Operator: DDC
Sample : AR1242L3BG Inst : HP_15
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:21 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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





8-6-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090411.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090411.D\ECD2B.CH
Acq On : 04 Sep 2001 15:38 Operator: DDC
Sample : AR1242L3BG Inst : HP_15
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:21 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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	7.36	7.12	445885	487785	19.4	17.8	
22)	S DCB	18.04	18.42	440976	499274	19.4	19.2	
	Target Compounds:							
7)	L4 Aroclor-1242	8.19	10.15	189554	121578	384.7	377.5	
8)	L4 Aroclor-1242 {2}	9.46	10.93	120032	221047	387.2	376.8	
9)	L4 Aroclor-1242 {3}	10.40	12.05	365456	241889	393.3	381.7	
10)	L4 Aroclor-1242 {4}	11.50	12.38	123022	141886	410.6	250.0	#
11)	L4 Aroclor-1242 {5}	11.84	12.77	160645	277774	433.4	379.7	
	Sum Aroclor-1242			958708	1004175	2009.3	1765.8	
	Average Aroclor-1242					401.861	353.150	

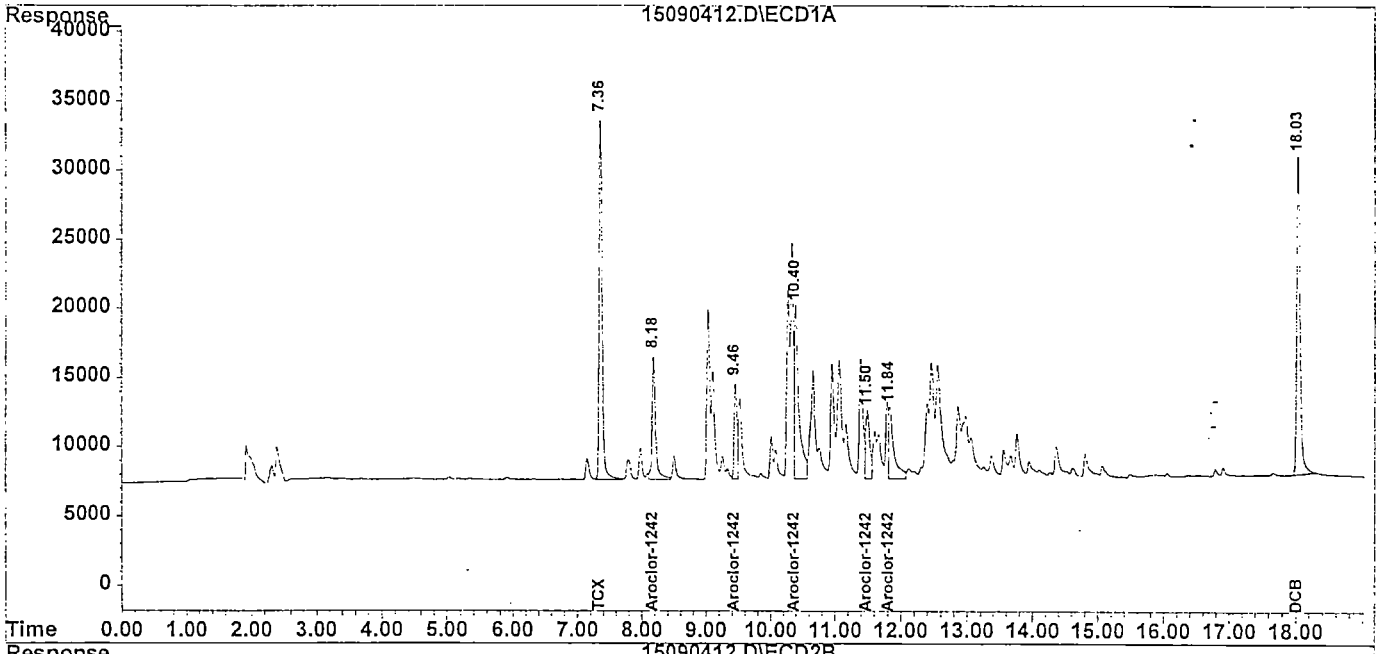
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

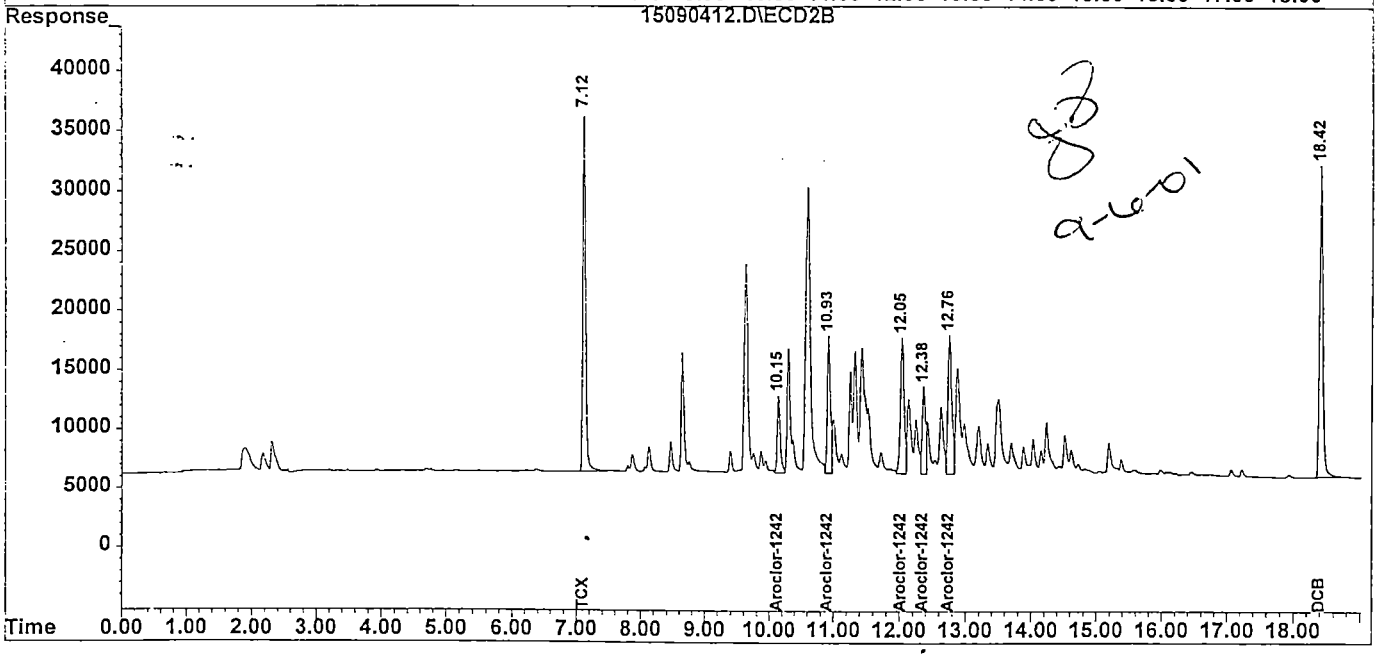
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090412.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090412.D\ECD2B.CH
Acq On : 04 Sep 2001 16:01 Operator: DDC
Sample : AR1242L4BG Inst : HP_15
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:21 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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
9-6-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090412.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090412.D\ECD2B.CH
Acq On : 04 Sep 2001 16:01 Operator: DDC
Sample : AR1242L4BG Inst : HP_15
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:21 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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	7.36	7.12	812855	901298	35.9	34.4	
22)	S DCB	18.04	18.42	815107	906095	36.2	35.7	
	Target Compounds:							
7)	L4 Aroclor-1242	8.19	10.15	330163	213713	684.1	686.2	
8)	L4 Aroclor-1242 {2}	9.46	10.93	213942	396516	710.1	696.0	
9)	L4 Aroclor-1242 {3}	10.40	12.05	638953	431250	704.9	700.2	
10)	L4 Aroclor-1242 {4}	11.50	12.38	219438	260536	738.7	516.6	#
11)	L4 Aroclor-1242 {5}	11.84	12.77	288970	498820	776.7	701.3	
	Sum Aroclor-1242			1691466	1800836	3614.5	3300.2	
	Average Aroclor-1242					722.902	660.044	

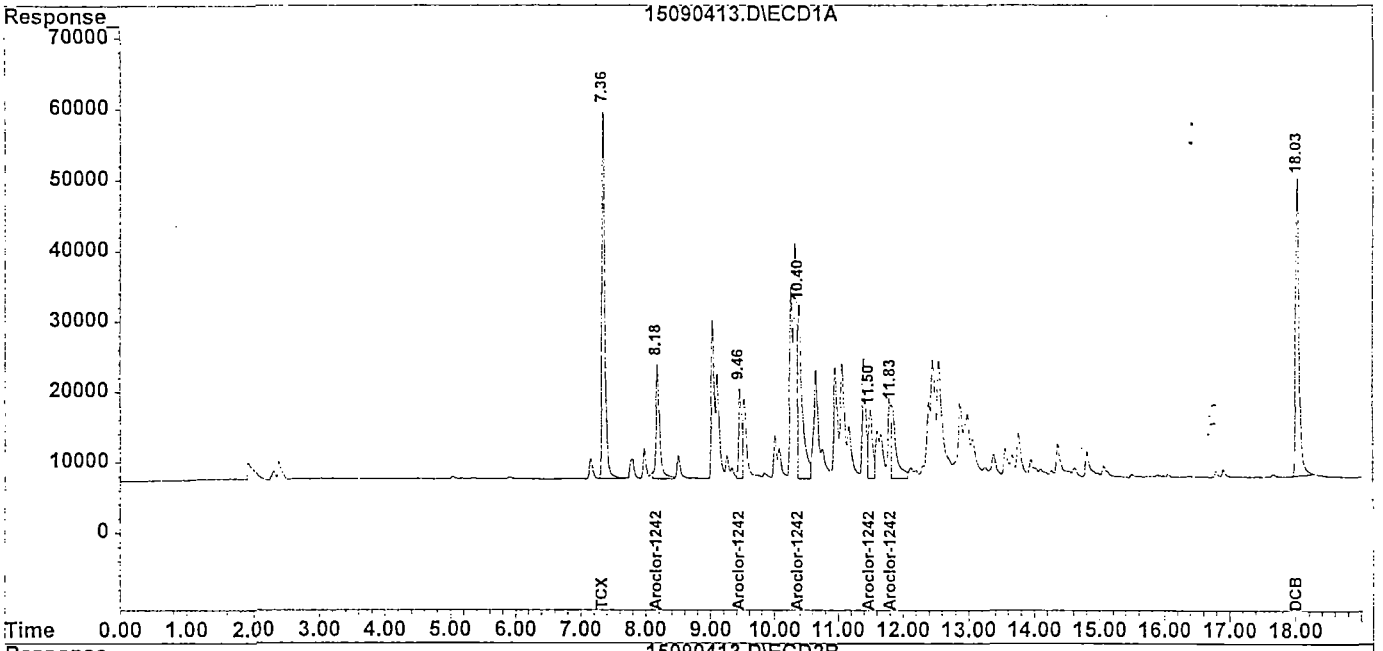
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

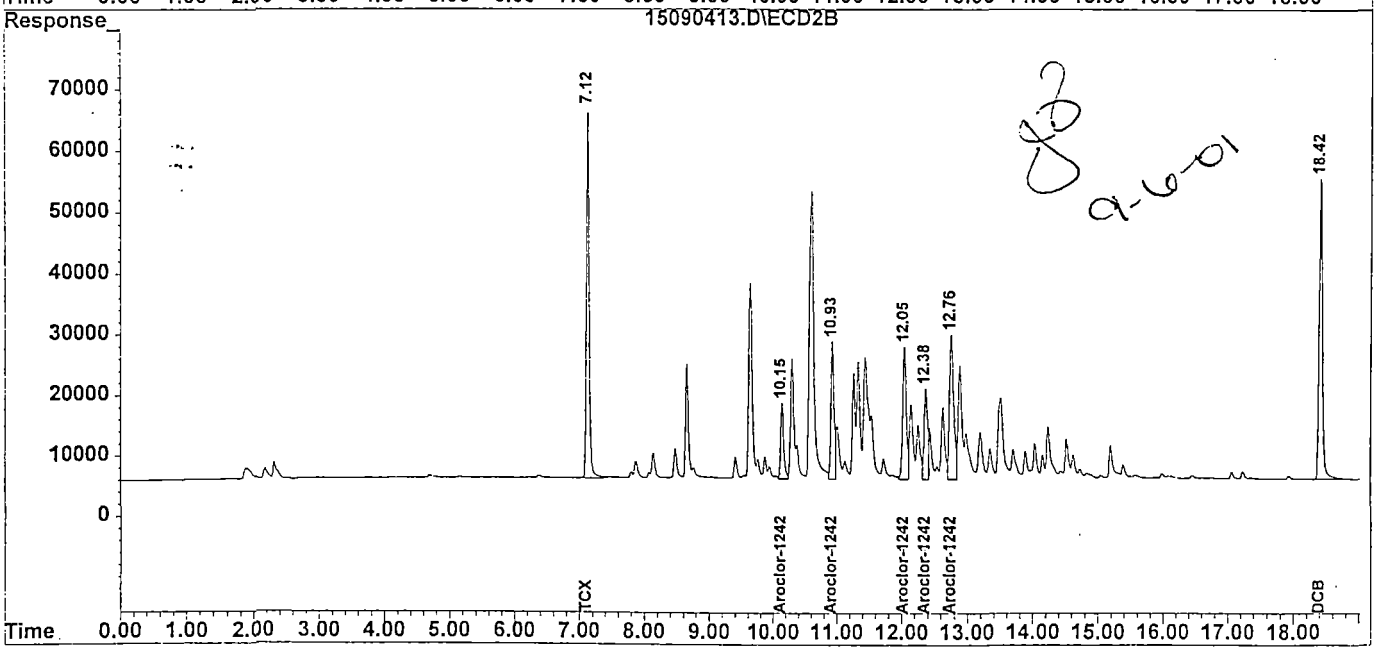
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090413.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090413.D\ECD2B.CH
Acq On : 04 Sep 2001 16:24 Operator: DDC
Sample : AR1242L5BG Inst : HP_15
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:22 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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





9-6-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090413.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090413.D\ECD2B.CH
Acq On : 04 Sep 2001 16:24 Operator: DDC
Sample : AR1242L5BG Inst : HP_15
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:22 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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	7.36	7.12	1679339	1866999	76.2	75.5
22)	S DCB	18.04	18.42	1531516	1724515	68.7	69.8
	Target Compounds:						
7)	L4 Aroclor-1242	8.19	10.15	630119	422854	1341.3	1420.7
8)	L4 Aroclor-1242 {2}	9.46	10.93	408341	776111	1402.5	1422.8
9)	L4 Aroclor-1242 {3}	10.40	12.05	1219701	829054	1385.8	1402.3
10)	L4 Aroclor-1242 {4}	11.50	12.38	419692	515118	1443.6	1167.3
11)	L4 Aroclor-1242 {5}	11.84	12.77	549910	973565	1497.5	1428.8
	Sum Aroclor-1242			3227763	3516703	7070.6	6841.9
	Average Aroclor-1242					1414.128	1368.388

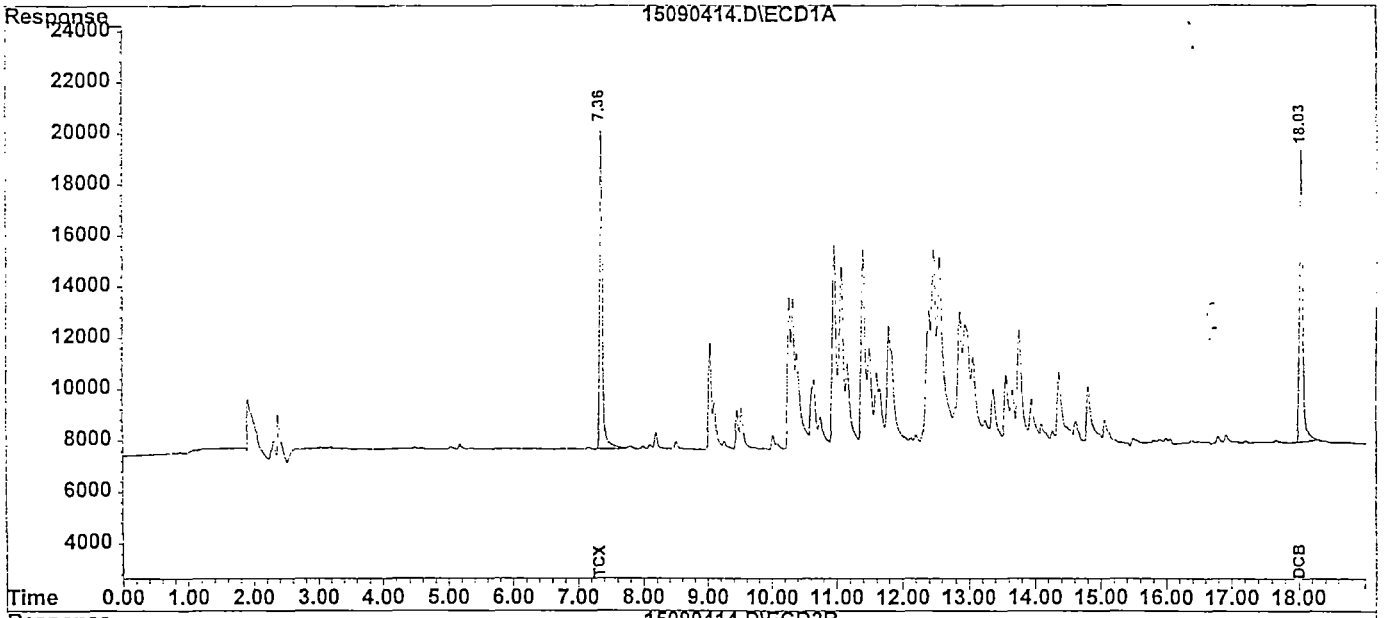
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

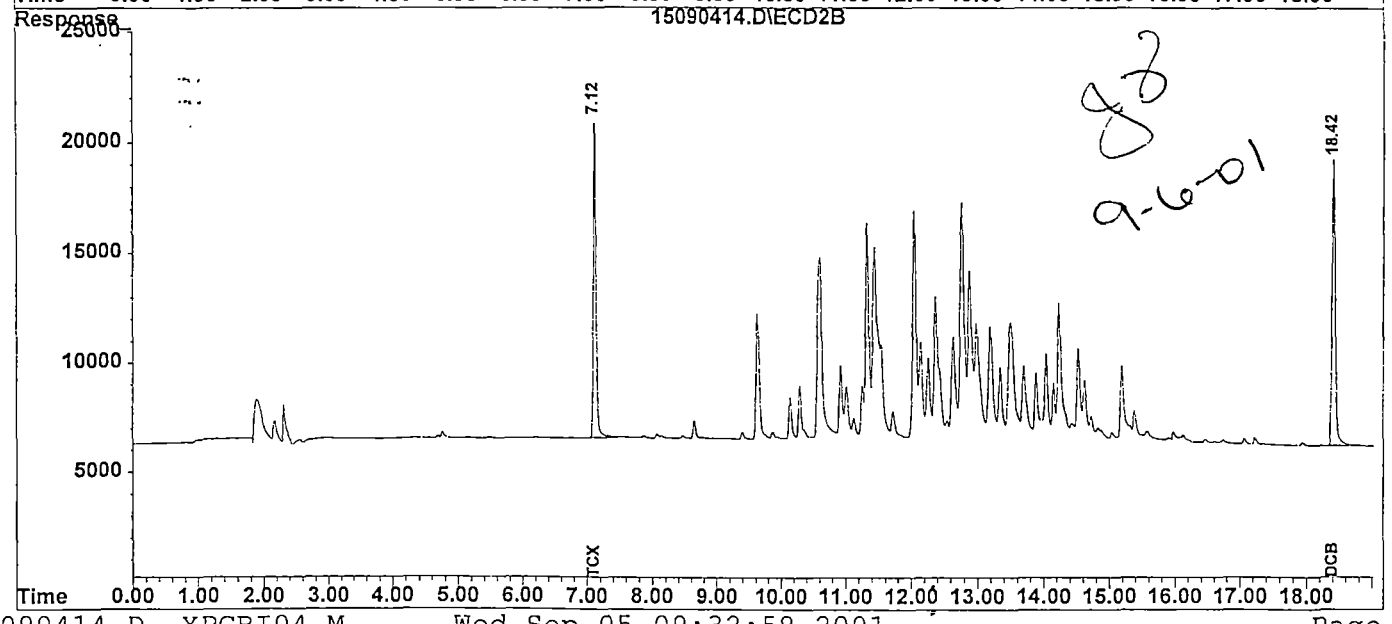
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090414.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090414.D\ECD2B.CH
Acq On : 04 Sep 2001 16:48 Operator: DDC
Sample : AR1248L3BG Inst : HP_15
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 9:30 2001 Quant Results File: XPCBI04.RES
Quant Time: Sep 5 9:31 2001 Quant Results File: xspcbi04.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 2001

Multi-Component Method : f:\hpchem\hp\15\data\09_04_01\xspcbi04.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





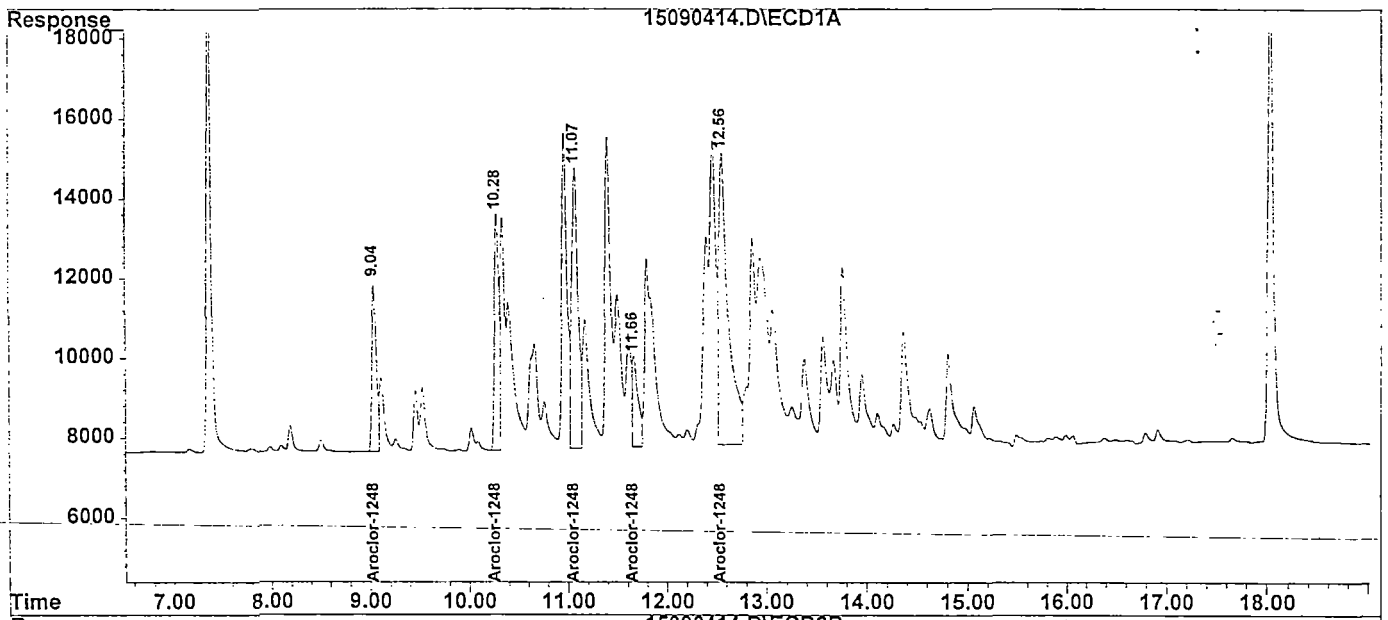
DD
9-6-01

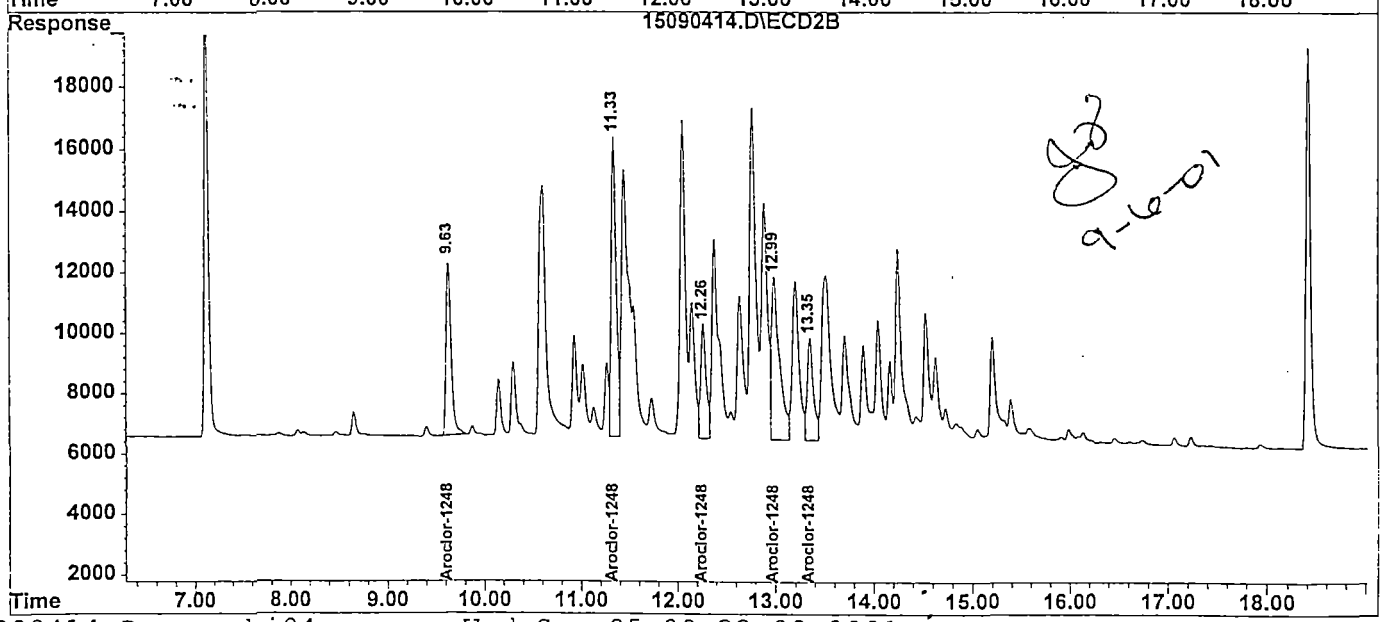
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090414.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090414.D\ECD2B.CH
Acq On : 04 Sep 2001 16:48 Operator: DDC
Sample : AR1248L3BG Inst : HP_15
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 9:31 2001 Quant Results File: xspcbi04.RES
Quant Time: Sep 5 9:31 2001 Quant Results File: xspcbi04.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 2001

Multi-Component Method : f:\hpchem\hp\15\data\09_04_01\xspcbi04.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 Signal #2 Info : .32
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





9-6-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090414.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090414.D\ECD2B.CH
Acq On : 04 Sep 2001 16:48 Operator: DDC
Sample : AR1248L3BG Inst : HP_15
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 9:30 2001 Quant Results File: XPCBI04.RES
Multi Time: Sep 5 9:31 2001 Quant Results File: xspcbi04.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 2001

Multi-Component Method : f:\hpchem\hp\15\data\09_04_01\xspcbi04.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	7.36	7.12	387890	429614	16.8	16.0
22)	S DCB	18.04	18.42	399039	451546	16.5	16.4
	Target Compounds:						
	Multi-Component Compounds:						
14)	L5 Aroclor-1248	9.04	9.63	127364	210857	337.1	319.8
15)	L5 Aroclor-1248 {2}	10.28	11.34	176494	349725	348.3	318.8
16)	L5 Aroclor-1248 {3}	11.07	12.26	314330	149870	343.8	332.0
17)	L5 Aroclor-1248 {4}	11.66	12.99	94595	308847	371.6	334.1
18)	L5 Aroclor-1248 {5}	12.56f	13.35	491549	148780	352.6	344.9
	Sum Aroclor-1248			1204333	1168079	1753.4	1649.7
	Average Aroclor-1248					350.684	329.942

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

Response Factor Report HP_15

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 2001
Response via : Initial Calibration

Calibration Files
L1 =15090415.D L2 =15090416.D L3 =15090417.D
L4 =15090418.D L5 =15090419.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
12) Aroclor-1254	885.8	1006.6	1105.6	891.5	841.8	946.2	11.41
13) Aroclor-1254 {2}	755.1	810.8	838.9	626.7	592.0	724.7	15.21
14) Aroclor-1254 {3}	833.9	944.7	1073.2	864.2	846.7	912.6	10.92
15) Aroclor-1254 {4}	839.7	940.3	1014.8	776.2	743.3	862.9	13.14
16) Aroclor-1254 {5}	630.8	741.3	866.6	698.8	714.0	730.3	11.83

Signal #2 Calibration Files
L1 =15090415.D L2 =15090416.D L3 =15090417.D
L4 =15090418.D L5 =15090419.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
35) Aroclor-1254 #2	447.9	421.1	466.1	384.7	364.7	416.9	10.15
36) Aroclor-1254 {2} #2	707.9	777.8	803.1	612.0	581.0	696.4	14.11
37) Aroclor-1254 {3} #2	608.0	714.2	734.8	578.1	545.3	636.1	13.21
38) Aroclor-1254 {4} #2	1.1	1.0	1.0	0.8	0.8	0.9 E3	17.81
39) Aroclor-1254 {5} #2	1.0	1.2	1.3	1.1	1.1	1.1 E3	11.02

(#) = Out of Range

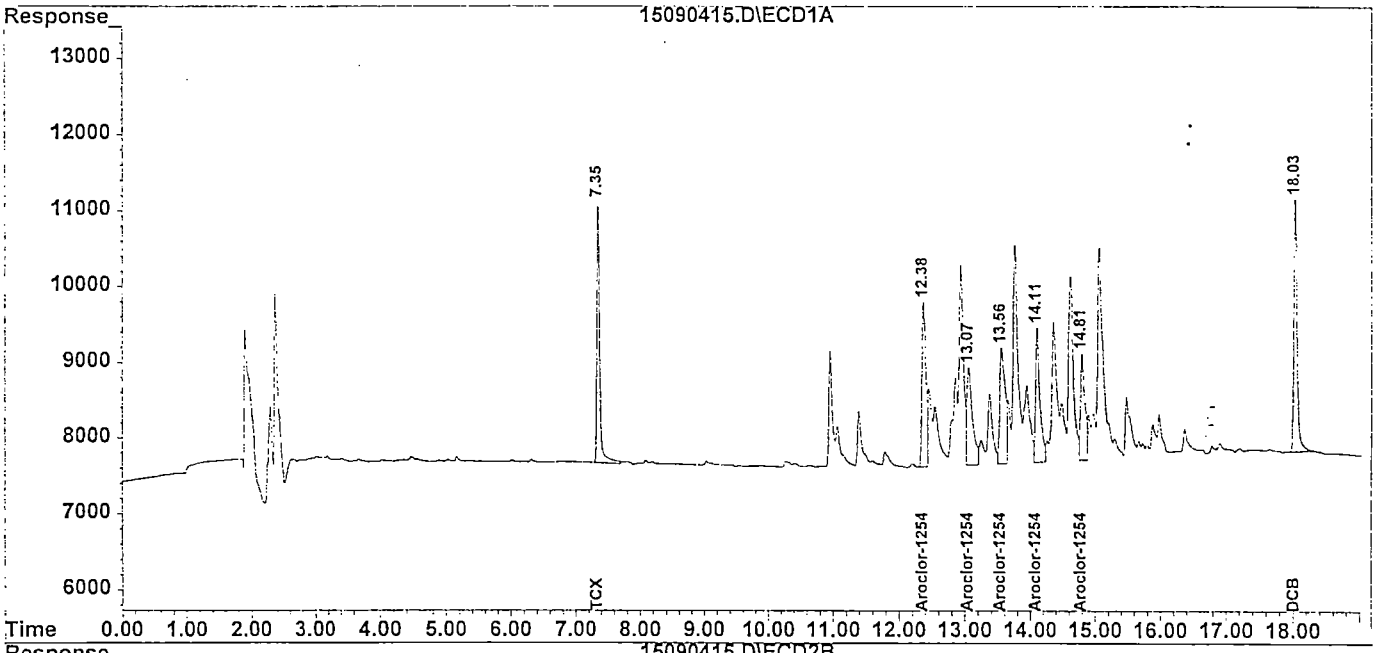
XPCBI04.M Wed Sep 05 08:40:28 2001

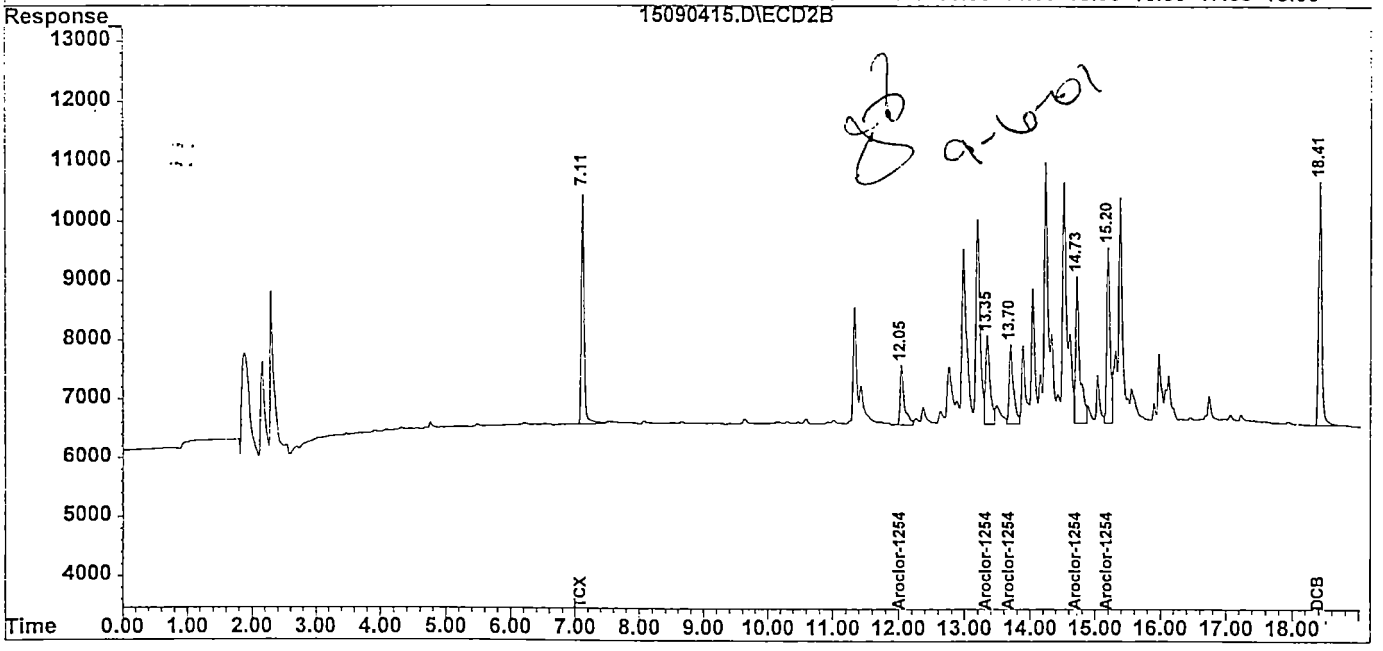
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090415.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090415.D\ECD2B.CH
Acq On : 04 Sep 2001 17:11 Operator: DDC
Sample : AR1254L1BG Inst : HP_15
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:38 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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





9-6-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090415.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090415.D\ECD2B.CH
Acq On : 04 Sep 2001 17:11 Operator: DDC
Sample : AR1254L1BG Inst : HP_15
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:38 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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	7.36	7.12	104221	114630	4.839	4.882
22)	S DCB	18.04	18.42	116916	135765	5.356	5.664
	Target Compounds:						
12)	L6 Aroclor-1254	12.38	12.05	88576	44794	84.2	87.7
13)	L6 Aroclor-1254 {2}	13.07	13.35	75507	70786	103.0	88.9
14)	L6 Aroclor-1254 {3}	13.57	13.71	83392	60795	83.4	84.4
15)	L6 Aroclor-1254 {4}	14.11	14.73	83969	114285	92.4	110.4
16)	L6 Aroclor-1254 {5}	14.81	15.21	63084	103576	77.3	77.6
	Sum Aroclor-1254			394528	394236	440.3	449.1
	Average Aroclor-1254					88.068	89.818

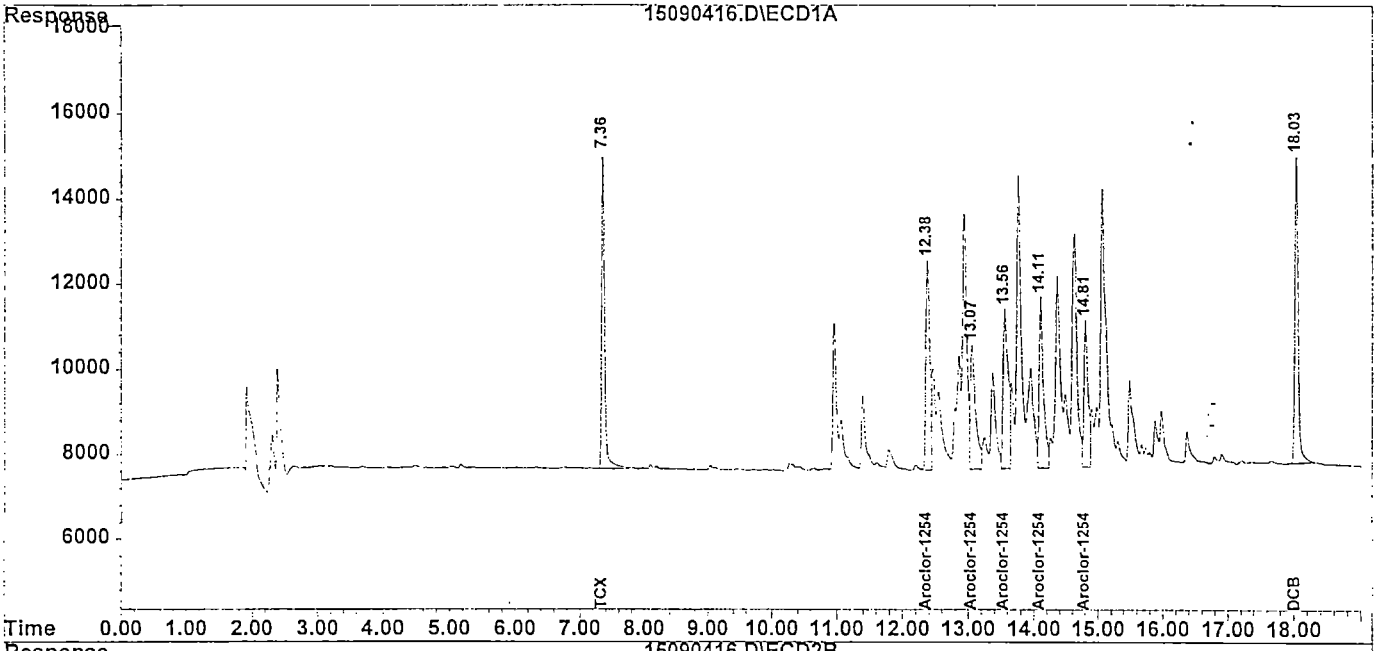
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

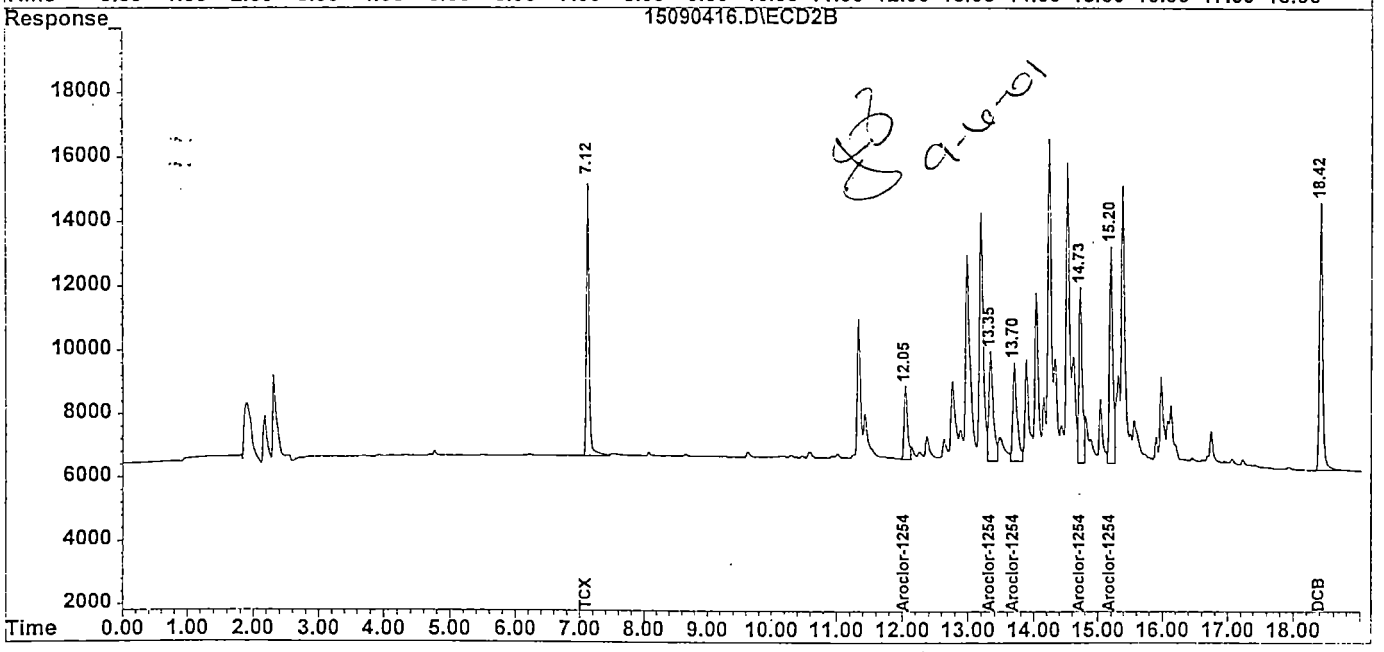
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090416.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090416.D\ECD2B.CH
Acq On : 04 Sep 2001 17:34 Operator: DDC
Sample : AR1254L2BG Inst : HP_15
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:38 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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





9-6-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090416.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090416.D\ECD2B.CH
Acq On : 04 Sep 2001 17:34 Operator: DDC
Sample : AR1254L2BG Inst : HP_15
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:38 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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	7.36	7.12	232327	259274	11.0	11.2
22)	S DCB	18.04	18.42	250465	282716	11.5	11.7
	Target Compounds:						
12)	L6 Aroclor-1254	12.38	12.05	201312	84227	202.8	177.2
13)	L6 Aroclor-1254 {2}	13.07	13.35	162159	155560	228.4	207.2
14)	L6 Aroclor-1254 {3}	13.57	13.71	188943	142835	199.6	210.1
15)	L6 Aroclor-1254 {4}	14.11	14.73	188052	197924	217.3	192.4
16)	L6 Aroclor-1254 {5}	14.81	15.21	148251	237901	193.9	189.5
	Sum Aroclor-1254			888717	818448	1042.0	976.4
	Average Aroclor-1254					208.400	195.276

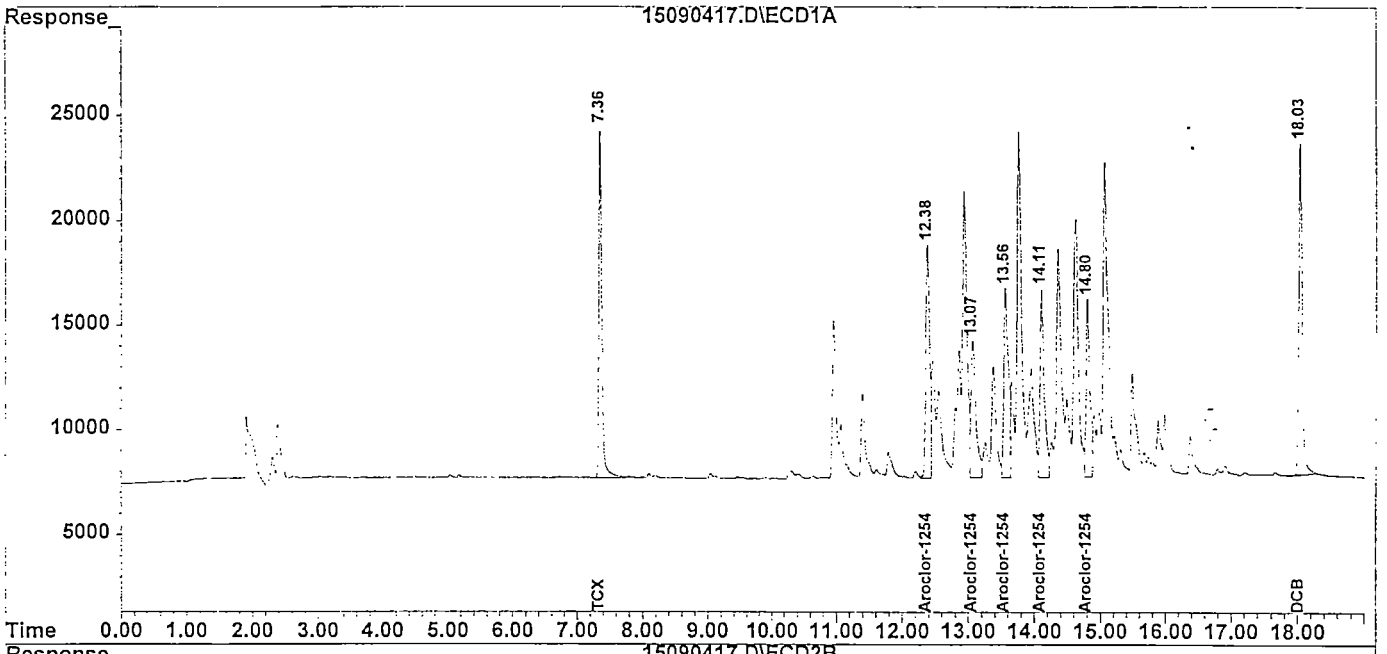
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

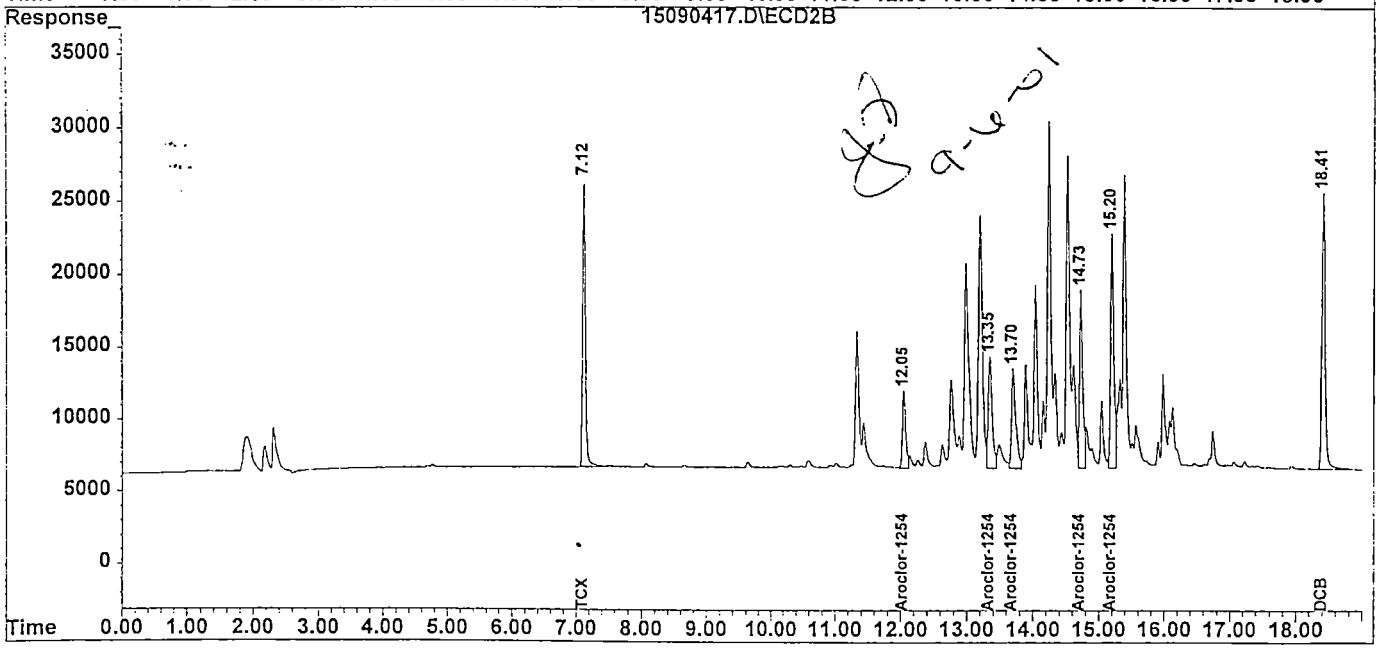
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090417.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090417.D\ECD2B.CH
Acq On : 04 Sep 2001 17:57 Operator: DDC
Sample : AR1254L3BG Inst : HP_15
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:39 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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\09_04_01\15090417.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090417.D\ECD2B.CH
Acq On : 04 Sep 2001 17:57 Operator: DDC
Sample : AR1254L3BG Inst : HP_15
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:39 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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	7.36	7.12	524605	590000	24.4	24.8
22)	S DCB	18.04	18.42	562252	639296	25.6	25.7
	Target Compounds:						
12)	L6 Aroclor-1254	12.38	12.05	442228	186428	459.2	420.7
13)	L6 Aroclor-1254 {2}	13.07	13.35	335569	321255	475.5	441.1
14)	L6 Aroclor-1254 {3}	13.56	13.70	429294	293918	468.4	444.1
15)	L6 Aroclor-1254 {4}	14.11	14.73	405924	415493	477.6	419.0
16)	L6 Aroclor-1254 {5}	14.81	15.20	346652	536166	469.2	443.8
	Sum Aroclor-1254			1959667	1753261	2349.9	2168.6
	Average Aroclor-1254					469.986	433.724

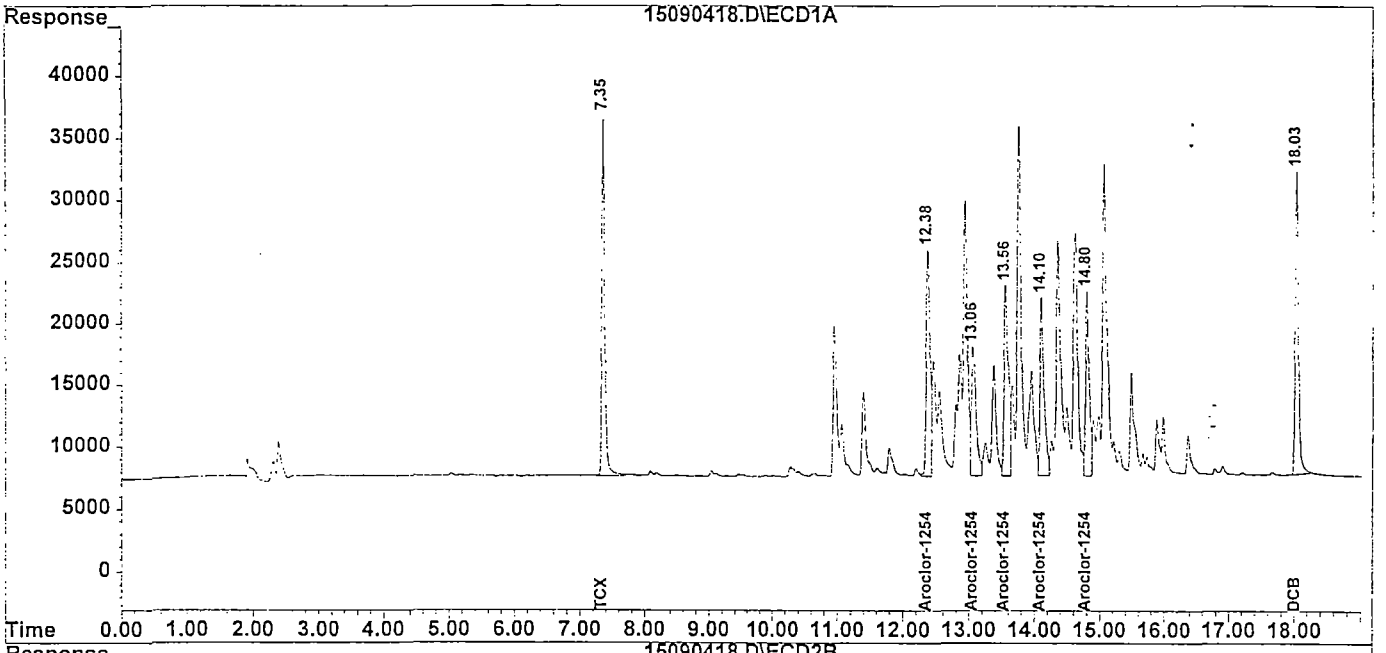
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

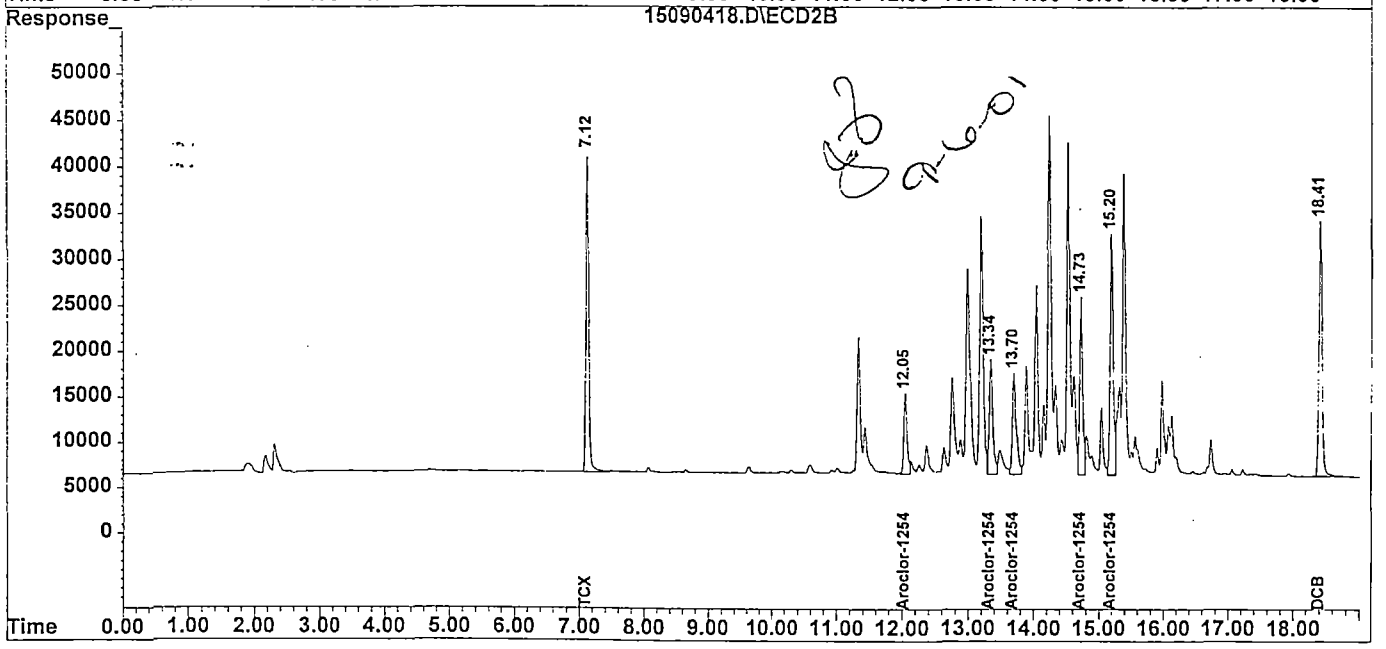
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090418.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090418.D\ECD2B.CH
Acq On : 04 Sep 2001 18:20 Operator: DDC
Sample : AR1254L4BG Inst : HP_15
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:39 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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\09_04_01\15090418.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090418.D\ECD2B.CH
Acq On : 04 Sep 2001 18:20 Operator: DDC
Sample : AR1254L4BG Inst : HP_15
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:39 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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	7.36	7.12	902125	1039052	40.4	41.8
22)	S DCB	18.03	18.41	862917	947641	37.2	36.0
	Target Compounds:						
12)	L6 Aroclor-1254	12.38	12.05	713204	307722	736.9	716.4
13)	L6 Aroclor-1254 {2}	13.07	13.34	501362	489608	692.1	673.7
14)	L6 Aroclor-1254 {3}	13.56	13.70	691398	462509	746.3	700.4
15)	L6 Aroclor-1254 {4}	14.11	14.73	620992	628077	715.6	637.3
16)	L6 Aroclor-1254 {5}	14.80	15.20	559024	854389	749.0	711.0
	Sum Aroclor-1254			3085980	2742305	3639.8	3438.7
	Average Aroclor-1254					727.951	687.733

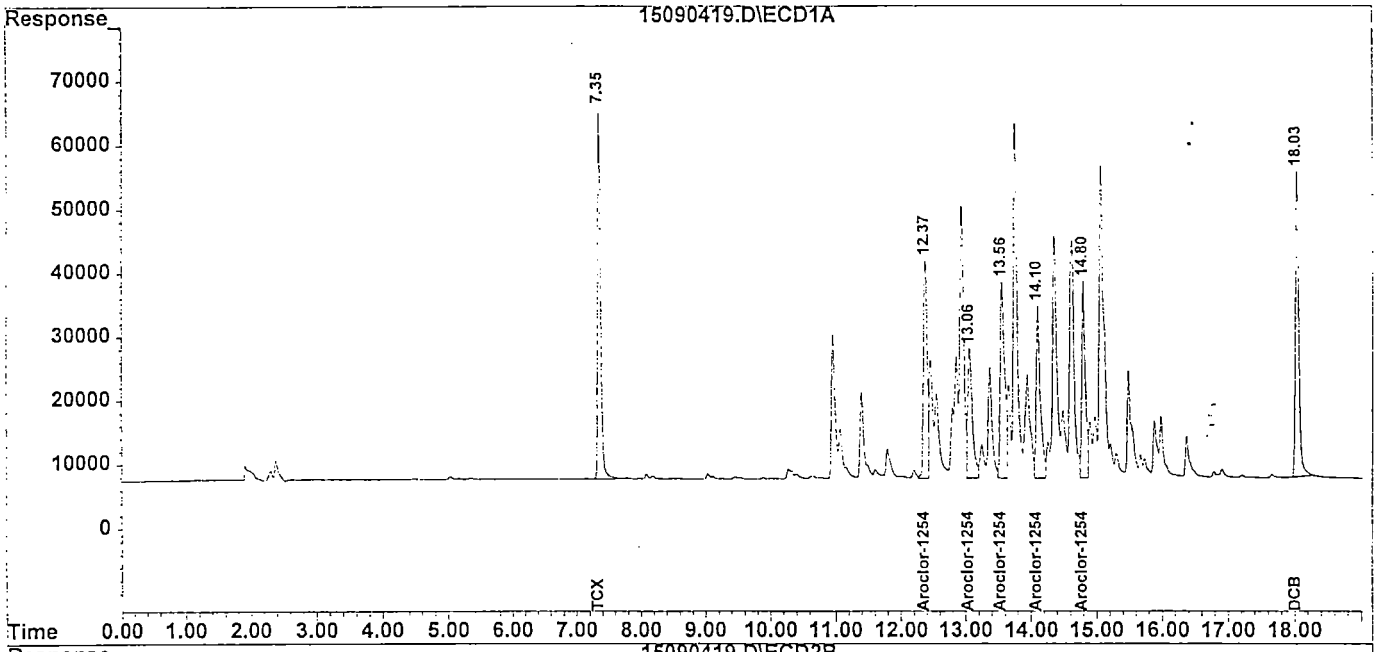
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

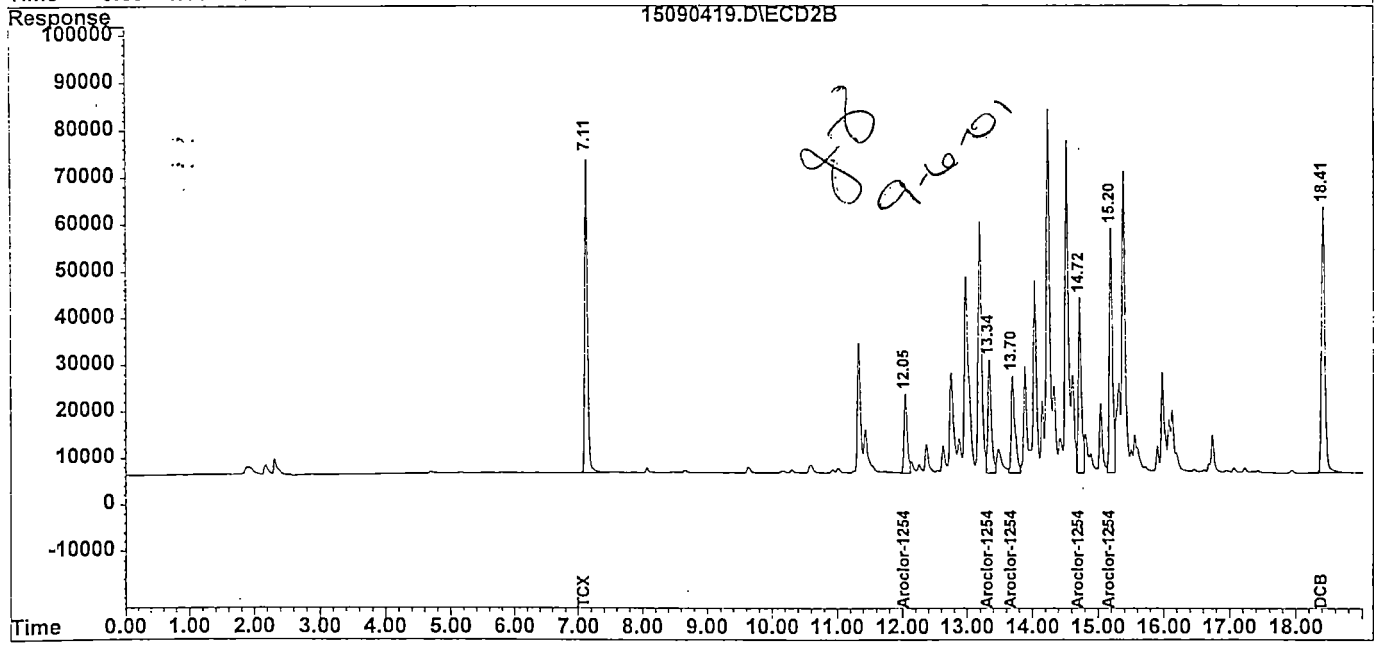
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090419.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090419.D\ECD2B.CH
Acq On : 04 Sep 2001 18:43 Operator: DDC
Sample : AR1254L5BG Inst : HP_15
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:40 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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\09_04_01\15090419.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090419.D\ECD2B.CH
Acq On : 04 Sep 2001 18:43 Operator: DDC
Sample : AR1254L5BG Inst : HP_15
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:40 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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	7.36	7.12	1820123	2053650	79.9 E	80.4 E
22)	S DCB	18.03	18.41	1765358	1983098	75.3 E	74.8 E
	Target Compounds:						
12)	L6 Aroclor-1254	12.38	12.05	1346878	583548	1412.8	1383.0
13)	L6 Aroclor-1254 {2}	13.06	13.34	947190	929526	1313.2 E	1313.1
14)	L6 Aroclor-1254 {3}	13.56	13.70	1354717	872548	1479.6	1352.0
15)	L6 Aroclor-1254 {4}	14.10	14.73	1189309	1203688	1380.5 E	1256.6
16)	L6 Aroclor-1254 {5}	14.80	15.20	1142344	1715678	1553.5	1471.1
	Sum Aroclor-1254			5980438	5304989	7139.6	6775.8
	Average Aroclor-1254					1427.911	1355.155

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

Response Factor Report HP_15

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 2001
Response via : Initial Calibration

Calibration Files
L1 =15090420.D L2 =15090421.D L3 =15090422.D
L4 =15090423.D L5 =15090424.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
1) TCX	24.4	22.3	24.2	22.3	22.0	23.0 E3	5.14
2) Aroclor-1016	710.1	625.1	645.2	562.7	501.5	608.9	13.11
3) Aroclor-1016 {2}	872.6	777.4	779.2	647.7	591.8	733.7	15.36
4) Aroclor-1016 {3}	834.6	773.1	809.1	693.5	684.8	759.0	8.89
5) Aroclor-1016 {4}	709.2	666.7	684.6	581.6	550.7	638.5	10.76
6) Aroclor-1016 {5}	267.5	255.0	260.4	219.5	203.6	241.2	11.61
17) Aroclor-1260	1.8	1.8	1.7	1.4	1.3	1.6 E3	13.97
18) Aroclor-1260 {2}	2.3	2.3	2.3	1.9	1.8	2.1 E3	10.38
19) Aroclor-1260 {3}	2.2	2.2	2.3	1.9	1.9	2.1 E3	8.15
20) Aroclor-1260 {4}	1.4	1.4	1.4	1.2	1.1	1.3 E3	10.59
21) Aroclor-1260 {5}	2.6	2.7	2.7	2.3	2.3	2.5 E3	8.43
22) DCB	25.4	25.4	26.3	21.9	21.5	24.1 E3	9.27

Signal #2 Calibration Files
L1 =15090420.D L2 =15090421.D L3 =15090422.D
L4 =15090423.D L5 =15090424.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
24) TCX #2	28.1	26.1	28.5	25.8	25.5	26.8 E3	5.20
25) Aroclor-1016 #2	705.1	636.5	642.2	541.0	501.0	605.1	13.65
26) Aroclor-1016 {2} #2	1.7	1.5	1.5	1.2	1.1	1.4 E3	17.02
27) Aroclor-1016 {3} #2	2.8	2.6	2.7	2.3	2.2	2.5 E3	10.54
28) Aroclor-1016 {4} #2	895.8	819.5	858.2	732.1	716.3	804.4	9.72
29) Aroclor-1016 {5} #2	1.0	0.9	0.9	0.8	0.8	0.9 E3	12.55
40) Aroclor-1260 #2	1.2	1.1	1.1	0.9	0.9	1.0 E3	10.73
41) Aroclor-1260 {2} #2	2.0	1.8	1.8	1.5	1.4	1.7 E3	14.09
42) Aroclor-1260 {3} #2	2.6	2.4	2.2	1.8	1.7	2.1 E3	17.88
43) Aroclor-1260 {4} #2	1.5	1.4	1.4	1.2	1.1	1.3 E3	12.65
44) Aroclor-1260 {5} #2	3.5	3.3	3.3	2.8	2.7	3.1 E3	11.00
45) DCB #2	28.7	29.9	29.8	25.5	23.6	27.5 E3	10.14

(#) = Out of Range

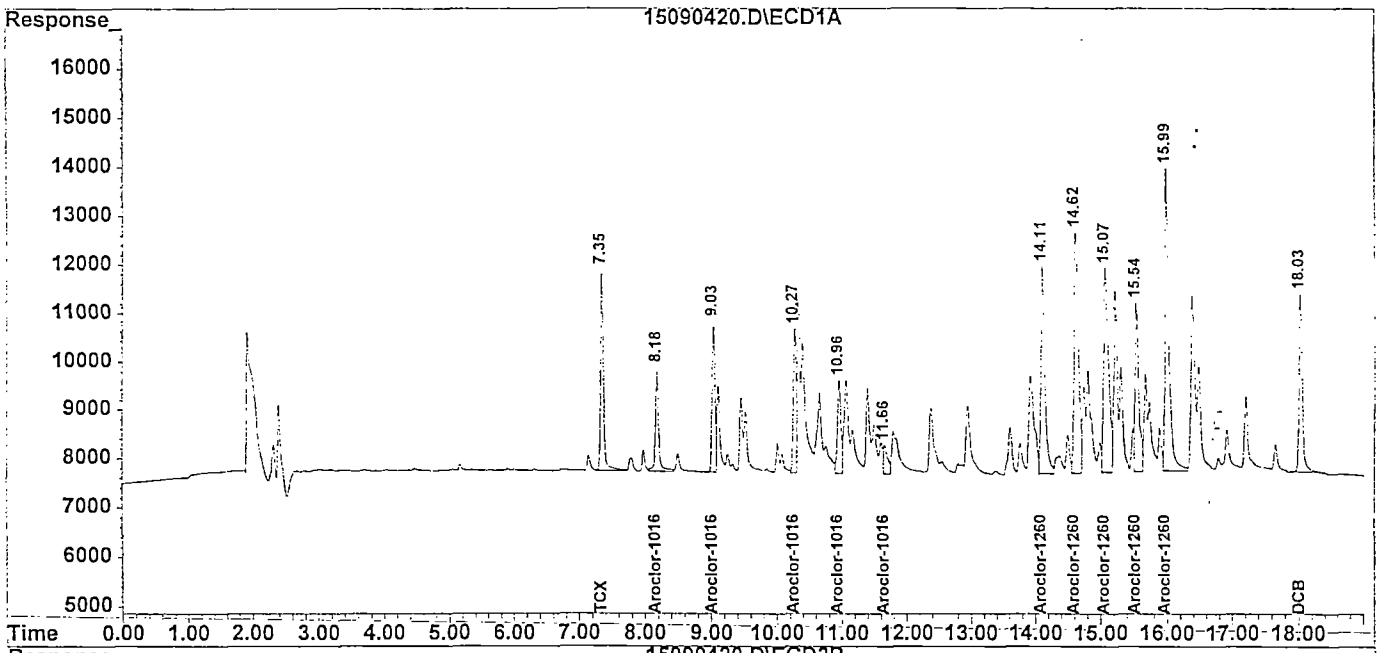
XPCBI04.M Wed Sep 05 08:49:37 2001

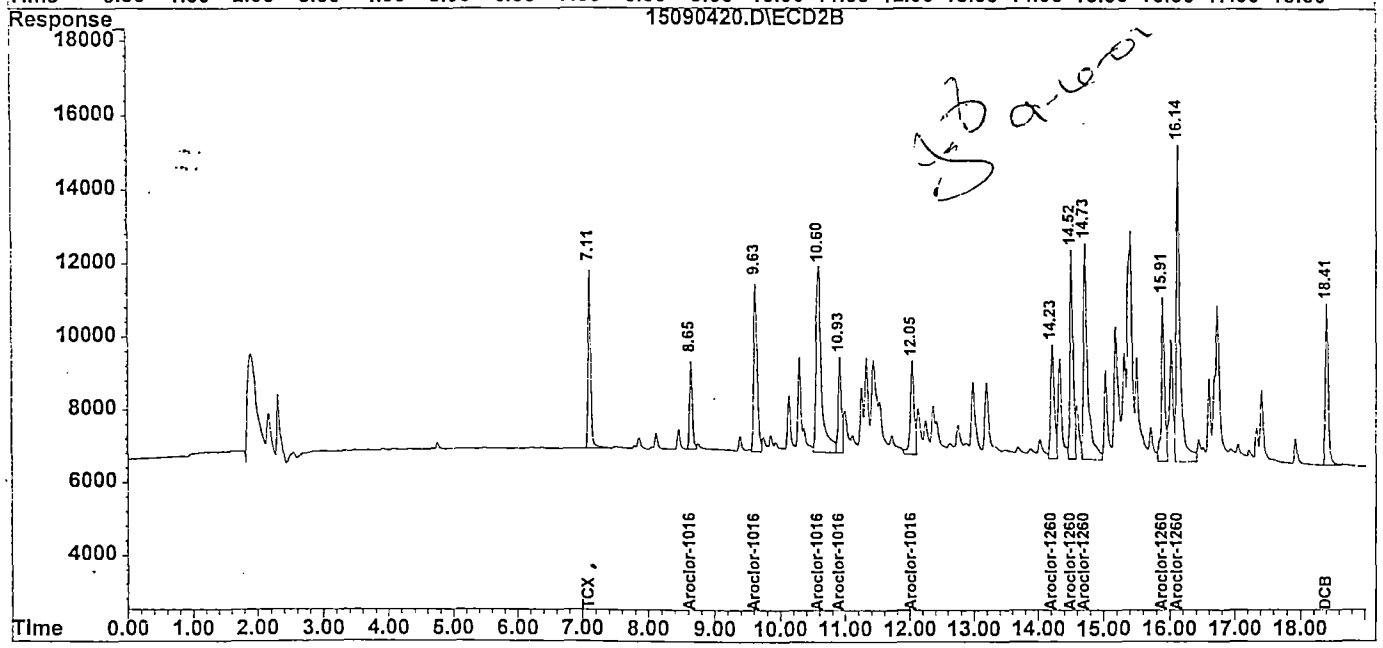
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090420.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090420.D\ECD2B.CH
Acq On : 04 Sep 2001 19:07 Operator: DDC
Sample : AR1660L1BG Inst : HP_15
Misc : 5-212-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:47 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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\09_04_01\15090420.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090420.D\ECD2B.CH
Acq On : 04 Sep 2001 19:07 Operator: DDC
Sample : AR1660L1BG Inst : HP_15
Misc : 5-212-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:47 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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	7.35	7.12	122175	140570	5.284	5.407
22)	S DCB	18.03	18.42	127130	143505	5.289	5.281
	Target Compounds:						
2)	L1 Aroclor-1016	8.18	8.65	71008	70507	112.6	107.2
3)	L1 Aroclor-1016 {2}	9.04	9.63	87260	168611	114.0	111.1
4)	L1 Aroclor-1016 {3}	10.27	10.60	83459	284031	110.7	108.1
5)	L1 Aroclor-1016 {4}	10.96	10.93	70920	89581	105.8	109.7
6)	L1 Aroclor-1016 {5}	11.66	12.05	26753	102444	111.7	113.1
	Sum Aroclor-1016			339400	715173	554.9	549.2
	Average Aroclor-1016					110.978	109.849
17)	L7 Aroclor-1260	14.11	14.23	183857	116861	116.0	106.6
18)	L7 Aroclor-1260 {2}	14.62	14.52	227354	196645	104.8	106.9
19)	L7 Aroclor-1260 {3}	15.07	14.73	215320	263224	100.4	115.8
20)	L7 Aroclor-1260 {4}	15.54	15.91	136364	147332	106.6	108.0
21)	L7 Aroclor-1260 {5}	15.99	16.14	255324	348652	101.5	105.5
	Sum Aroclor-1260			1018219	1072713	529.2	542.9
	Average Aroclor-1260					105.848	108.575

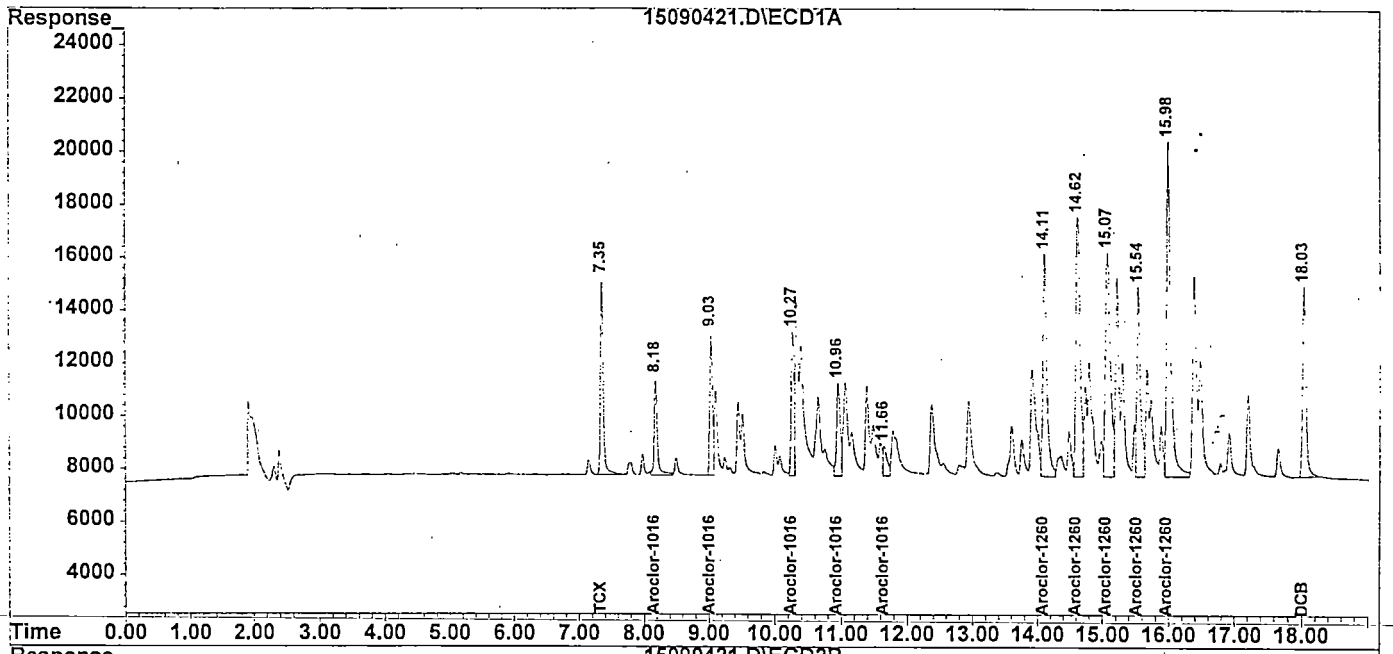
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

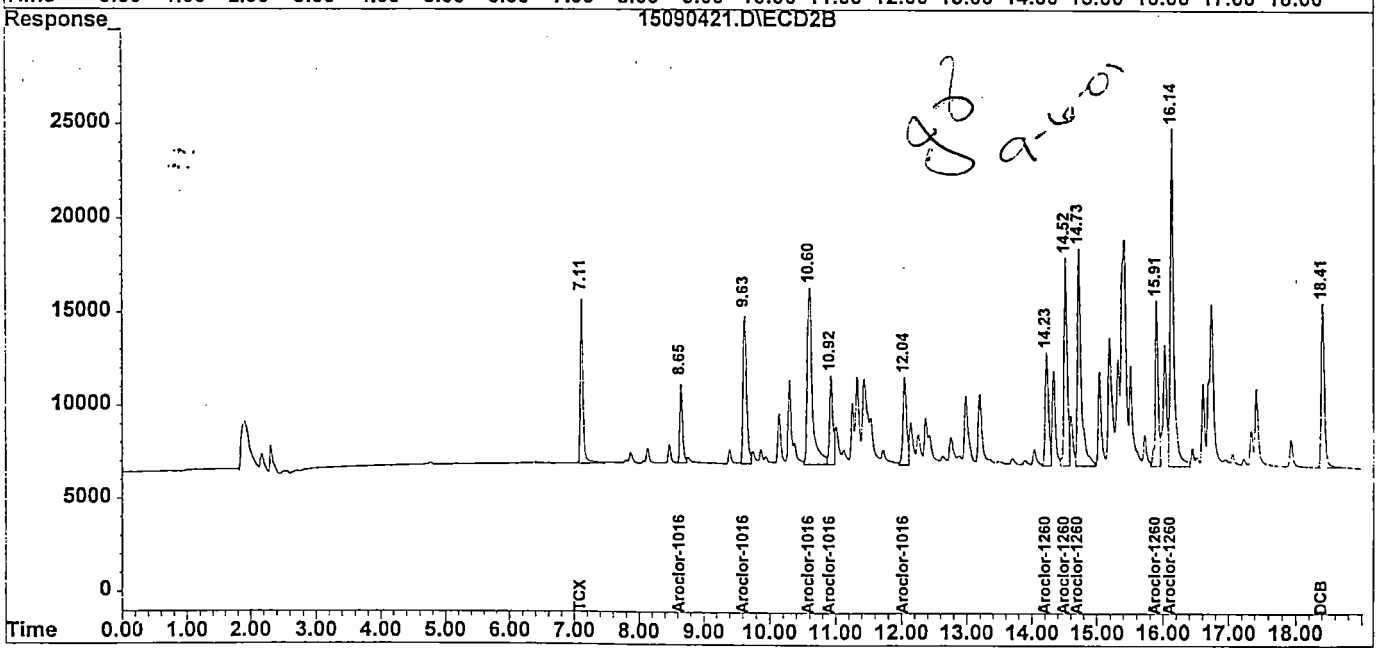
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090421.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090421.D\ECD2B.CH
Acq On : 04 Sep 2001 19:30 Operator: DDC
Sample : AR1660L2BG Inst : HP_15
Misc : 5-211-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:47 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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\09_04_01\15090421.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090421.D\ECD2B.CH
Acq On : 04 Sep 2001 19:30 Operator: DDC
Sample : AR1660L2BG Inst : HP_15
Misc : 5-211-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:47 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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	7.35	7.12	222941	260926	9.351	9.650
22)	S DCB	18.03	18.41	254472	298545	10.4	10.9
	Target Compounds:						
2)	L1 Aroclor-1016	8.18	8.65	125010	127296	198.6	194.6
3)	L1 Aroclor-1016 {2}	9.04	9.63	155478	293231	203.1	195.8
4)	L1 Aroclor-1016 {3}	10.27	10.60	154618	512323	202.1	194.4
5)	L1 Aroclor-1016 {4}	10.96	10.93	133339	163899	200.9	197.4
6)	L1 Aroclor-1016 {5}	11.66	12.05	51000	176258	215.0	192.6
	Sum Aroclor-1016			619446	1273007	1019.7	974.7
	Average Aroclor-1016					203.937	194.948
17)	L7 Aroclor-1260	14.11	14.23	354363	215770	224.2	197.9
18)	L7 Aroclor-1260 {2}	14.62	14.52	453656	369667	213.2	204.9
19)	L7 Aroclor-1260 {3}	15.08	14.73	439842	471156	209.9	208.6
20)	L7 Aroclor-1260 {4}	15.54	15.91	279644	276718	222.4	204.7
21)	L7 Aroclor-1260 {5}	15.99	16.14	539486	668002	219.0	204.4
	Sum Aroclor-1260			2066993	2001313	1088.6	1020.5
	Average Aroclor-1260					217.719	204.098

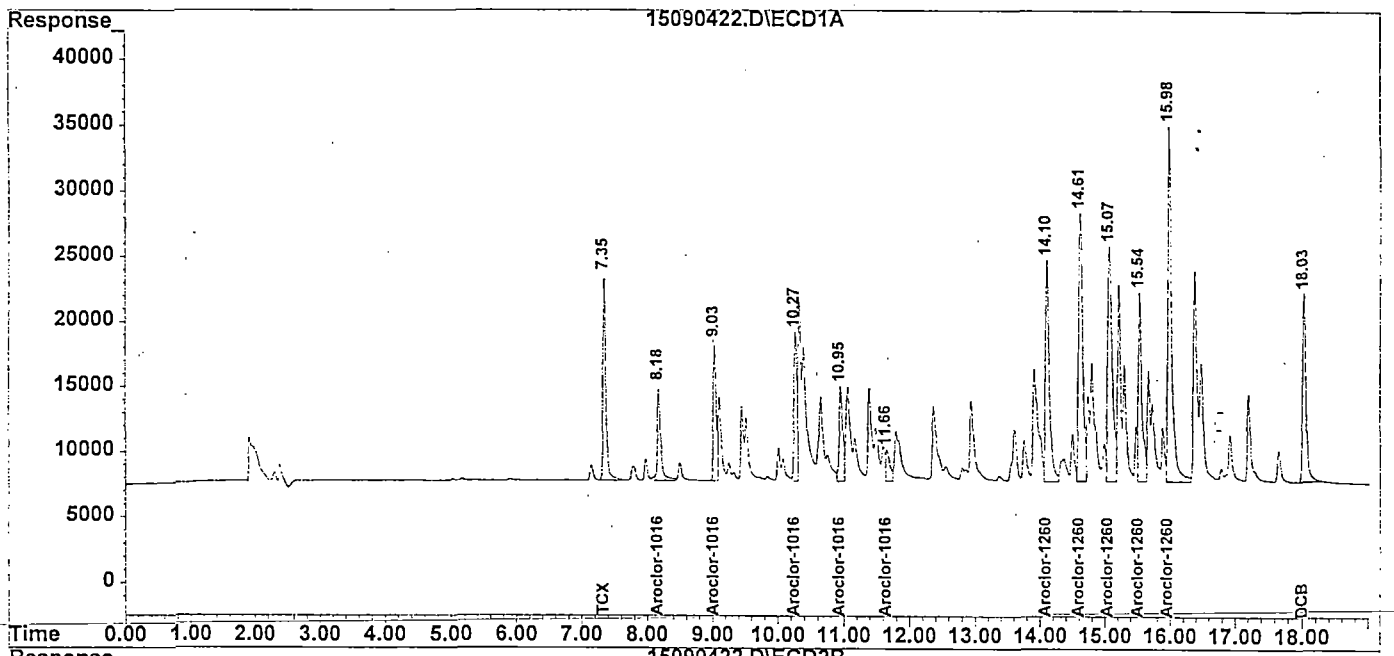
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

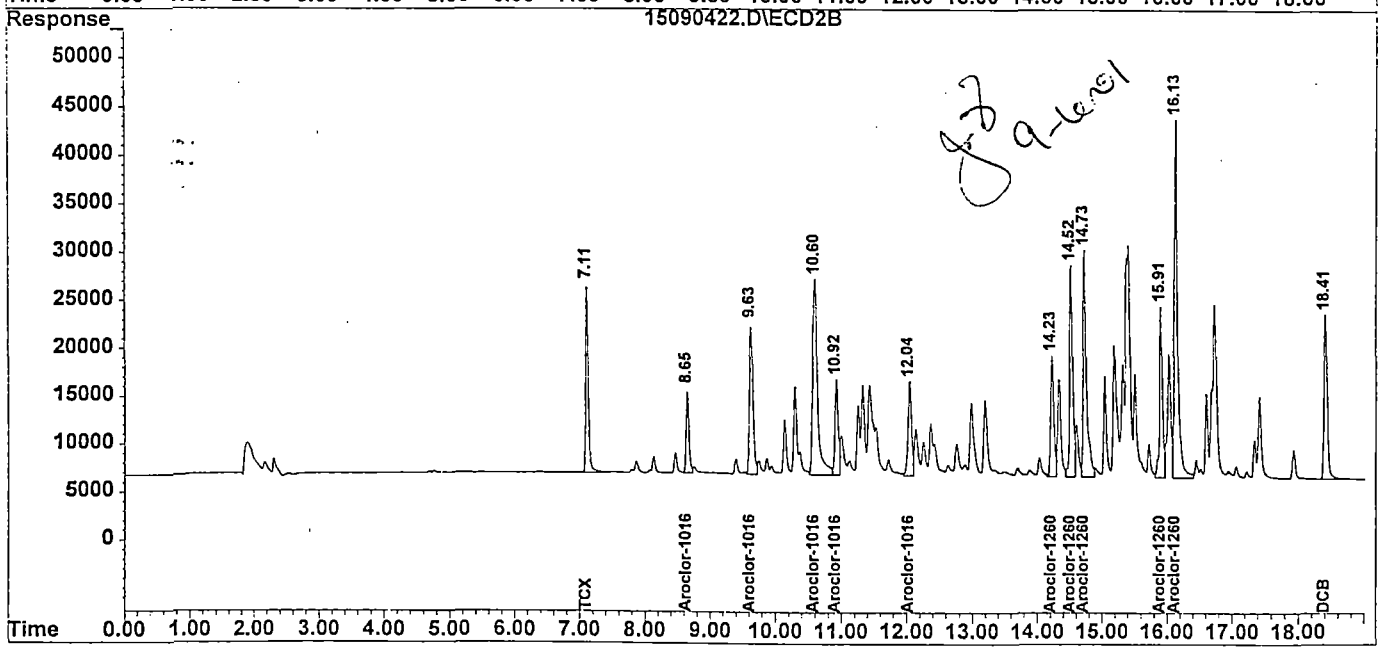
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090422.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090422.D\ECD2B.CH
Acq On : 04 Sep 2001 19:53 Operator: DDC
Sample : AR1660L3BG Inst : HP_15
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:48 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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\09_04_01\15090422.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090422.D\ECD2B.CH
Acq On : 04 Sep 2001 19:53 Operator: DDC
Sample : AR1660L3BG Inst : HP_15
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:48 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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	7.35	7.12	484540	570804	20.5	21.1
22)	S DCB	18.03	18.41	526056	595938	21.4	21.4
	Target Compounds:						
2)	L1 Aroclor-1016	8.18	8.65	258082	256879	423.9	406.2
3)	L1 Aroclor-1016 {2}	9.04	9.63	311664	586256	418.5	407.2
4)	L1 Aroclor-1016 {3}	10.27	10.60	323647	1070342	430.5	417.2
5)	L1 Aroclor-1016 {4}	10.96	10.93	273838	343269	425.2	421.2
6)	L1 Aroclor-1016 {5}	11.66	12.05	104166	369518	447.6	416.1
	Sum Aroclor-1016			1271397	2626265	2145.7	2067.9
	Average Aroclor-1016					429.138	413.576
17)	L7 Aroclor-1260	14.11	14.23	695677	443867	443.3	418.8
18)	L7 Aroclor-1260 {2}	14.62	14.52	909147	730560	435.6	417.3
19)	L7 Aroclor-1260 {3}	15.07	14.73	902251	887813	438.8	403.8
20)	L7 Aroclor-1260 {4}	15.54	15.91	555230	551431	444.6	417.8
21)	L7 Aroclor-1260 {5}	15.99	16.14	1096780	1336459	448.5	418.2
	Sum Aroclor-1260			4159085	3950131	2210.8	2075.9
	Average Aroclor-1260					442.165	415.171

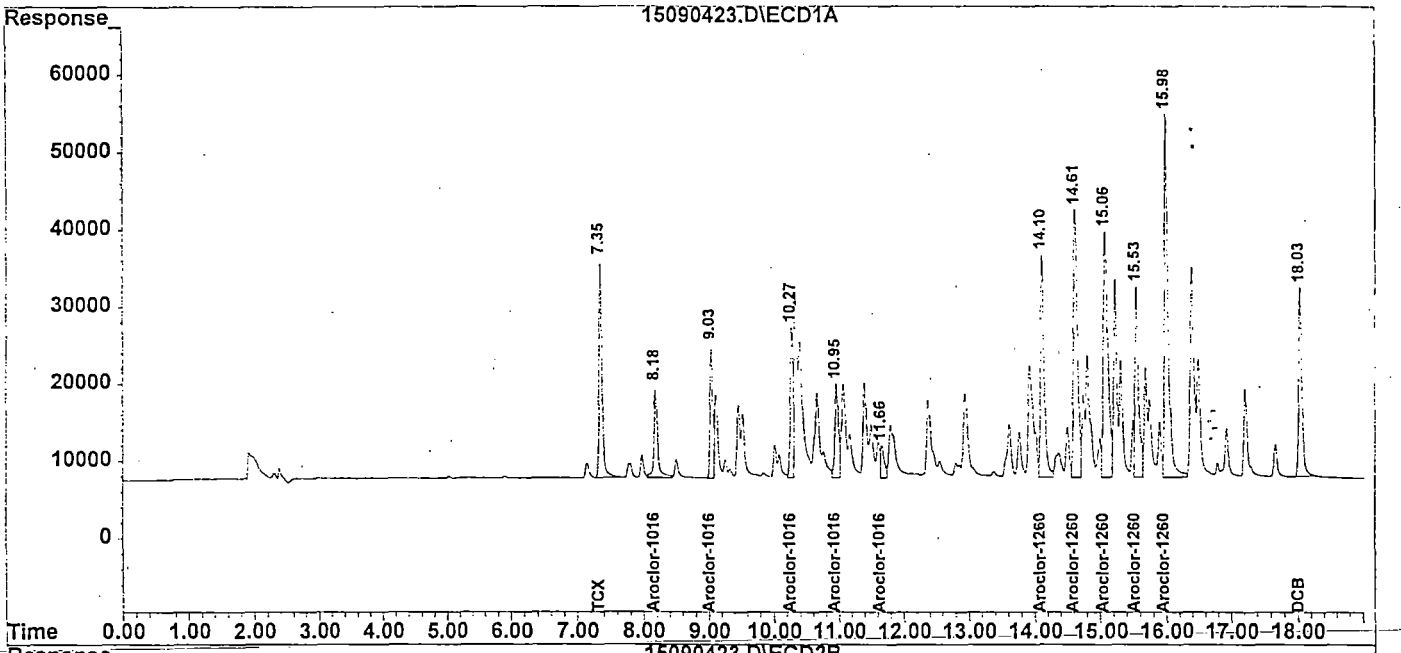
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

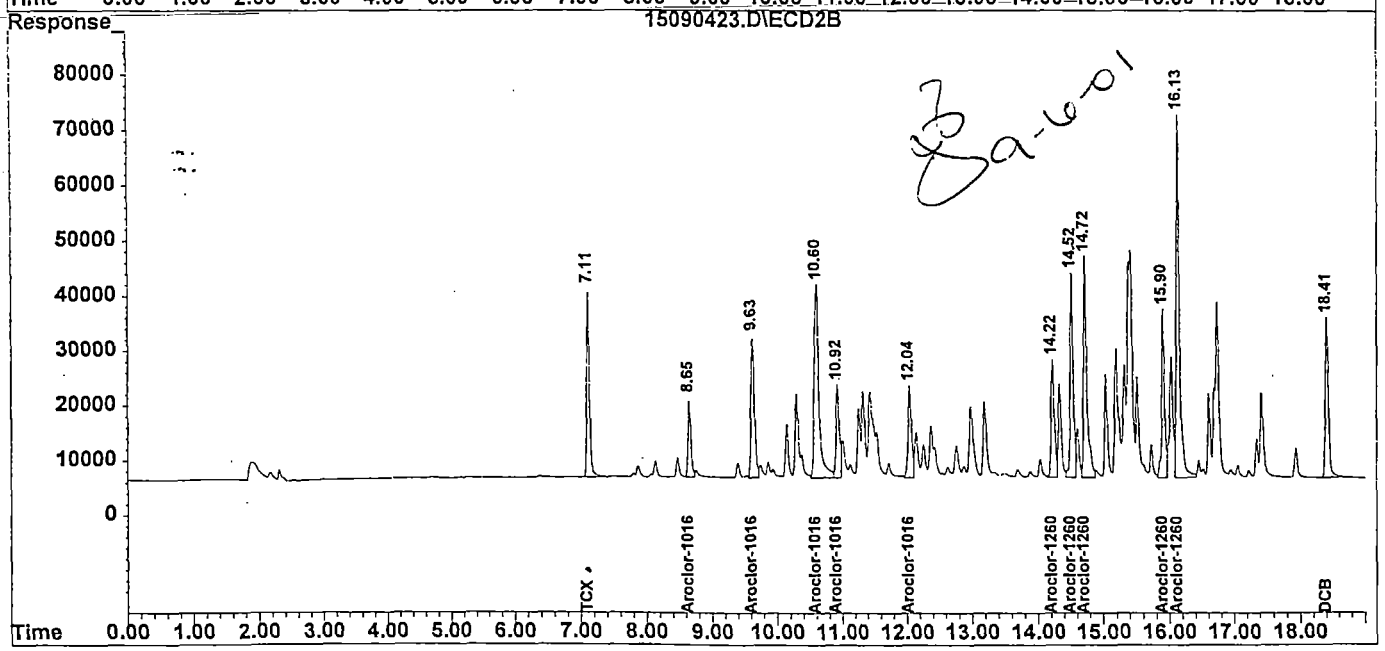
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090423.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090423.D\ECD2B.CH
Acq On : 04 Sep 2001 20:16 Operator: DDC
Sample : AR1660L4BG Inst : HP_15
Misc : 5-209-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:48 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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





3a-6-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090423.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090423.D\ECD2B.CH
Acq On : 04 Sep 2001 20:16 Operator: DDC
Sample : AR1660L4BG Inst : HP_15
Misc : 5-209-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:48 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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	7.35	7.11	892641	1033441	38.4	38.4
22)	S DCB	18.03	18.41	877296	1019974	36.3	37.3
	Target Compounds:						
2)	L1 Aroclor-1016	8.18	8.65	450169	432773	731.6	687.6
3)	L1 Aroclor-1016 {2}	9.03	9.63	518130	968274	691.2	675.1
4)	L1 Aroclor-1016 {3}	10.27	10.60	554806	1825953	722.2	704.6
5)	L1 Aroclor-1016 {4}	10.96	10.92	465245	585690	715.7	706.7
6)	L1 Aroclor-1016 {5}	11.66	12.04	175592	623643	736.7	695.2
	Sum Aroclor-1016			2163941	4436333	3597.3	3469.2
	Average Aroclor-1016					719.457	693.841
17)	L7 Aroclor-1260	14.10	14.23	1145965	746957	710.1	697.9
18)	L7 Aroclor-1260 {2}	14.61	14.52	1528882	1205225	719.3	683.4
19)	L7 Aroclor-1260 {3}	15.07	14.72	1532540	1460262	729.9	659.9
20)	L7 Aroclor-1260 {4}	15.54	15.91	927265	922105	723.4	691.7
21)	L7 Aroclor-1260 {5}	15.98	16.14	1865886	2277987	742.6	705.7
	Sum Aroclor-1260			7000538	6612536	3625.4	3438.7
	Average Aroclor-1260					725.075	687.748

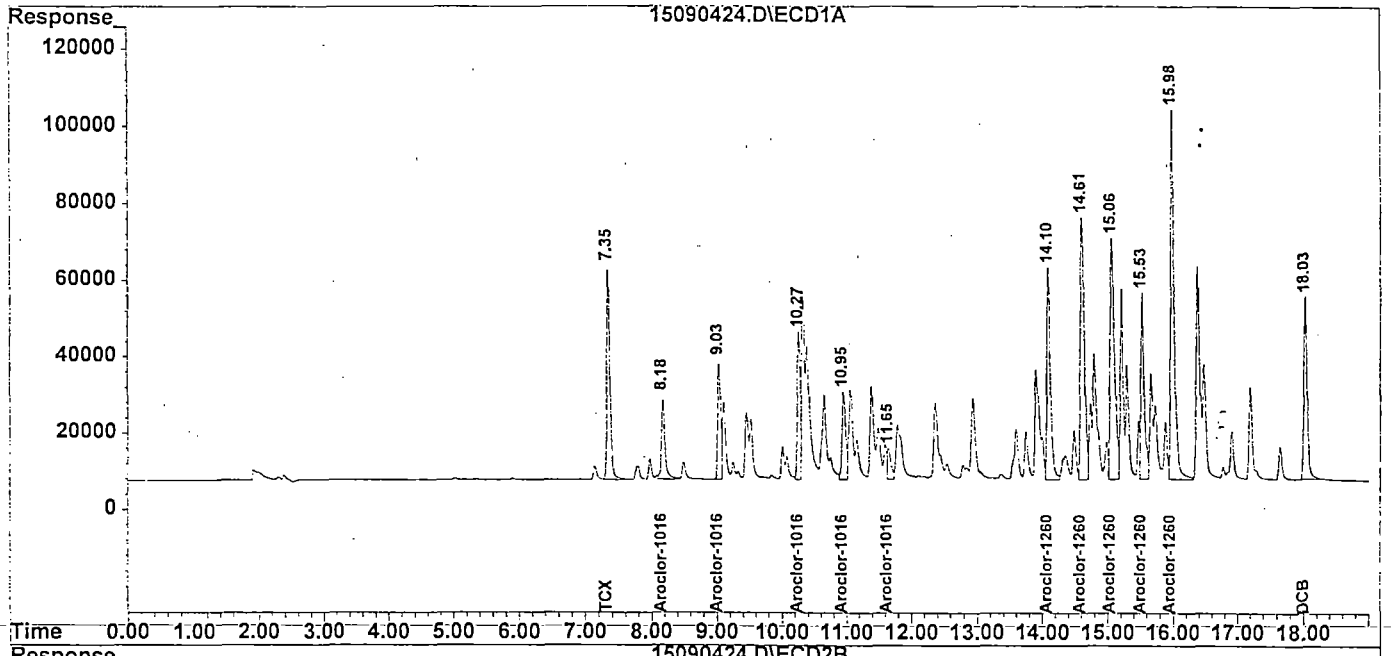
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

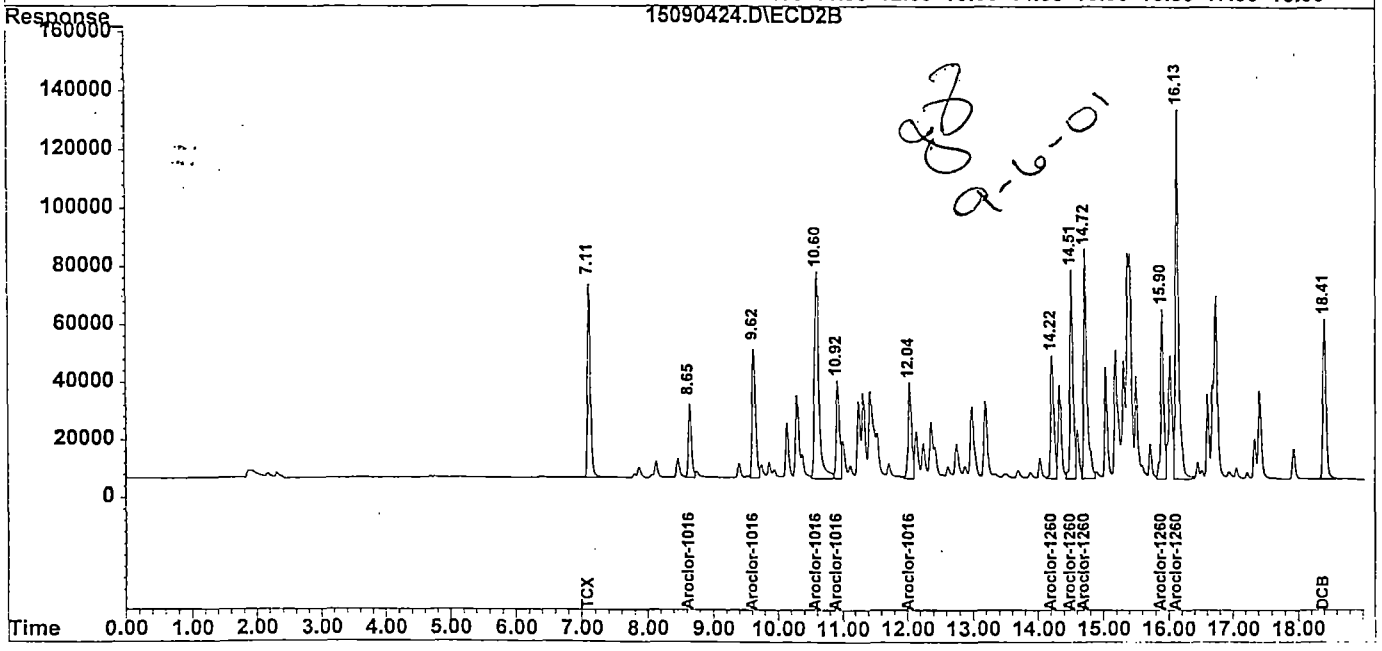
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090424.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090424.D\ECD2B.CH
Acq On : 04 Sep 2001 20:39 Operator: DDC
Sample : AR1660L5BG Inst : HP_15
Misc : 5-208-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:49 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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 9-6-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090424.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090424.D\ECD2B.CH
Acq On : 04 Sep 2001 20:39 Operator: DDC
Sample : AR1660L5BG Inst : HP_15
Misc : 5-208-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 8:49 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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	7.35	7.11	1756266	2042578	75.7	76.1
22)	S DCB	18.03	18.41	1718175	1891756	70.9	68.2
	Target Compounds:						
2)	L1 Aroclor-1016	8.18	8.65	802358	801601	1310.9	1300.7
3)	L1 Aroclor-1016 {2}	9.03	9.63	946820	1742388	1277.9	1239.2
4)	L1 Aroclor-1016 {3}	10.27	10.60	1095756	3536248	1433.8	1387.2
5)	L1 Aroclor-1016 {4}	10.96	10.92	881045	1146072	1370.7	1405.5
6)	L1 Aroclor-1016 {5}	11.66	12.04	325762	1209538	1357.8 E	1370.4
	Sum Aroclor-1016			4051742	8435847	6751.1	6703.0
	Average Aroclor-1016					1350.223	1340.607
17)	L7 Aroclor-1260	14.10	14.22	2125177	1463599	1311.1 E	1391.6
18)	L7 Aroclor-1260 {2}	14.61	14.52	2938885	2249480	1387.8	1294.7
19)	L7 Aroclor-1260 {3}	15.07	14.72	3016932	2717356	1441.5	1246.2
20)	L7 Aroclor-1260 {4}	15.54	15.91	1785456	1749249	1390.4 E	1328.7
21)	L7 Aroclor-1260 {5}	15.98	16.13	3629017	4322351	1439.4	1352.9
	Sum Aroclor-1260			13495467	12502034	6970.3	6614.0
	Average Aroclor-1260					1394.058	1322.806

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

Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Fri Sep 07 15:31:50 2001
Response via : Initial Calibration

Continuing Calibration File: 15090703.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	23.045	23.371	E3	-1.4	96
2	L1	Aroclor-1016	608.904	632.518		-3.9	98
3	L1	Aroclor-1016 {2}	733.715	716.816		2.3	92
4	L1	Aroclor-1016 {3}	759.031	725.165		4.5	90
5	L1	Aroclor-1016 {4}	638.541	625.055		2.1	91
6	L1	Aroclor-1016 {5}	241.206	231.157		4.2	89
17	L7	Aroclor-1260	1.622	1.616	E3	0.4	93
18	L7	Aroclor-1260 {2}	2.113	2.158	E3	-2.1	95
19	L7	Aroclor-1260 {3}	2.082	2.139	E3	-2.7	95
20	L7	Aroclor-1260 {4}	1.285	1.310	E3	-2.0	94
21	L7	Aroclor-1260 {5}	2.519	2.596	E3	-3.1	95
22	S	DCB	24.117	23.464	E3	2.7	89

Signal #2
Continuing Calibration File: 15090703.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	26.823	31.948	E3	-19.1#	112
2	L1	Aroclor-1016	605.143	692.502		-14.4	108
3	L1	Aroclor-1016 {2}	1.383	1.586	E3	-14.6	108
4	L1	Aroclor-1016 {3}	2.514	2.705	E3	-7.6	101
5	L1	Aroclor-1016 {4}	804.377	872.217		-8.4	102
6	L1	Aroclor-1016 {5}	0.873	0.948	E3	-8.6	103
17	L7	Aroclor-1260	1.041	1.179	E3	-13.3	106
18	L7	Aroclor-1260 {2}	1.711	1.973	E3	-15.3#	108
19	L7	Aroclor-1260 {3}	2.146	2.399	E3	-11.8	108
20	L7	Aroclor-1260 {4}	1.296	1.467	E3	-13.2	106
21	L7	Aroclor-1260 {5}	3.143	3.609	E3	-14.8	108
22	S	DCB	27.500	31.727	E3	-15.4#	106

(#) = Out of Range SPCC's out = 0 CCC's out = 0

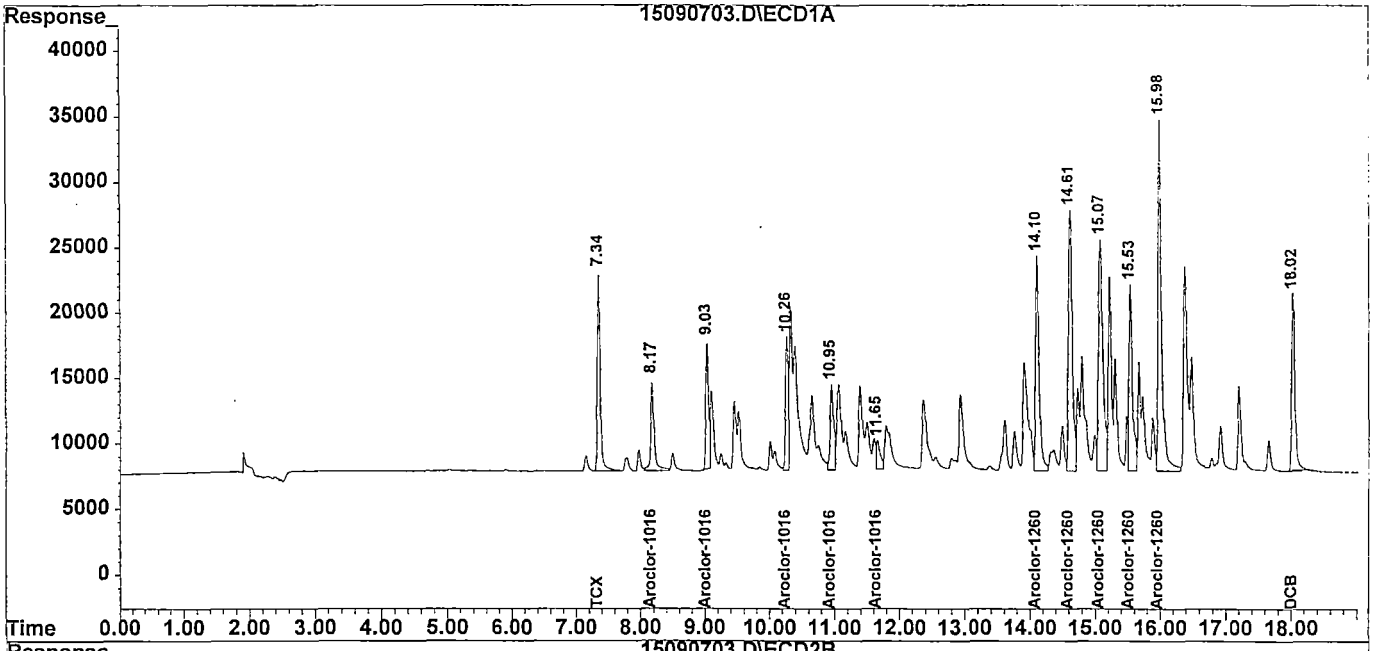
15090703.D XPCBI04.M Fri Sep 07 15:31:56 2001

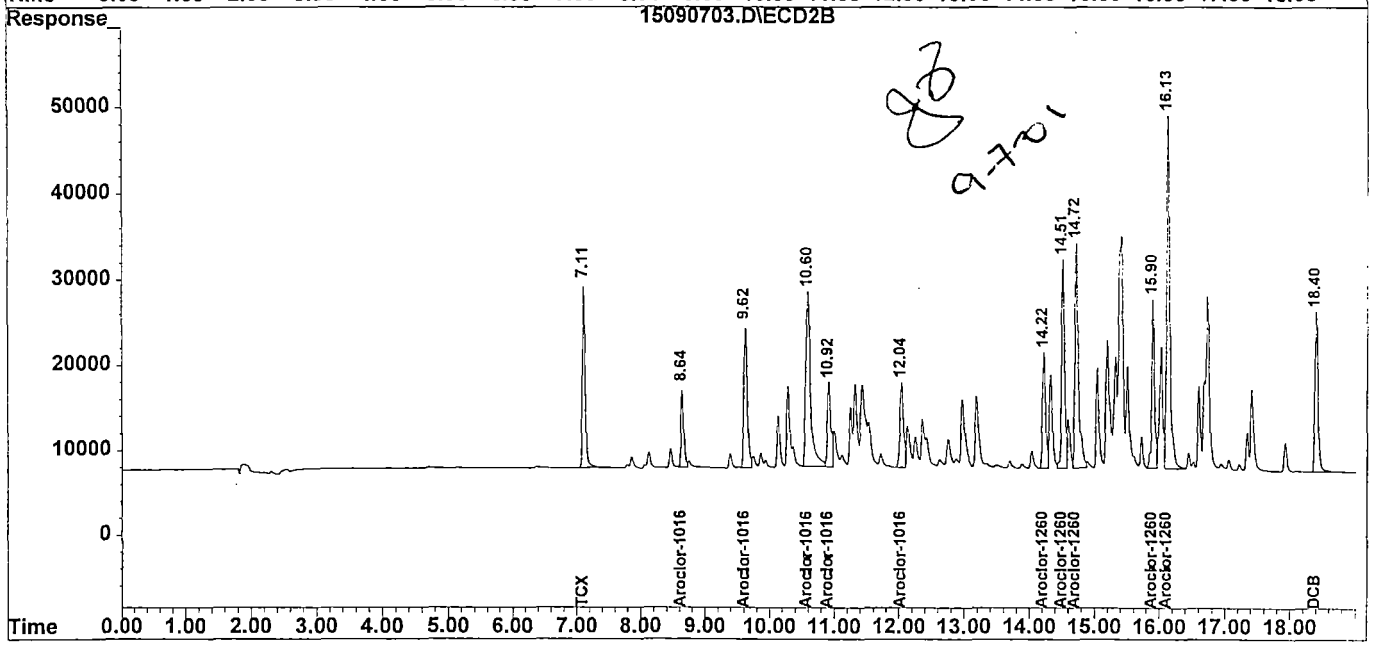
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_07_01\15090703.D\ECD1A.CH Vial: 56
Signal #2 : F:\HPCHEM\HP\15\DATA\09_07_01\15090703.D\ECD2B.CH
Acq On : 07 Sep 2001 10:29 Operator: DDC
Sample : AR1660L3BY Inst : HP_15
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 7 15:31 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Fri Sep 07 11:14:04 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\09_07_01\15090703.D\ECD1A.CH Vial: 56
Signal #2 : F:\HPCHEM\HP\15\DATA\09_07_01\15090703.D\ECD2B.CH
Acq On : 07 Sep 2001 10:29 Operator: DDC
Sample : AR1660L3BY Inst : HP_15
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 7 15:31 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Fri Sep 07 11:14:04 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	7.35	7.11	467412	638954	20.3	23.8
22)	S DCB	18.03	18.40	469272	634550	19.5	23.1
	Target Compounds:						
2)	L1 Aroclor-1016	8.18	8.64	253007	277001	415.5	457.7
3)	L1 Aroclor-1016 {2}	9.03	9.62	286726	634257	390.8	458.5
4)	L1 Aroclor-1016 {3}	10.26	10.60	290066	1082035	382.2	430.4
5)	L1 Aroclor-1016 {4}	10.95	10.92	250022	348887	391.6	433.7
6)	L1 Aroclor-1016 {5}	11.65	12.04	92463	379389	383.3	434.6
	Sum Aroclor-1016			1172284	2721569	1963.3	2214.9
	Average Aroclor-1016					392.668	442.982
17)	L7 Aroclor-1260	14.10	14.22	646356	471644	398.5	453.0
18)	L7 Aroclor-1260 {2}	14.61	14.52	863003	789150	408.5	461.3
19)	L7 Aroclor-1260 {3}	15.07	14.72	855505	959532	410.9	447.1
20)	L7 Aroclor-1260 {4}	15.53	15.90	524069	586984	407.8	452.8
21)	L7 Aroclor-1260 {5}	15.98	16.13	1038341	1443706	412.3	459.3
	Sum Aroclor-1260			3927274	4251015	2038.0	2273.5
	Average Aroclor-1260					407.607	454.700

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

Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Sat Sep 08 08:34:48 2001
Response via : Initial Calibration

Continuing Calibration File: 15090713.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	23.045	24.345	E3	-5.6	100
2	L1	Aroclor-1016	608.904	653.383		-7.3	101
3	L1	Aroclor-1016 {2}	733.715	755.848		-3.0	97
4	L1	Aroclor-1016 {3}	759.031	761.822		-0.4	94
5	L1	Aroclor-1016 {4}	638.541	667.242		-4.5	97
6	L1	Aroclor-1016 {5}	241.206	240.624		0.2	92
17	L7	Aroclor-1260	1.622	1.701	E3	-4.9	98
18	L7	Aroclor-1260 {2}	2.113	2.283	E3	-8.1	100
19	L7	Aroclor-1260 {3}	2.082	2.239	E3	-7.6	99
20	L7	Aroclor-1260 {4}	1.285	1.614	E3	-25.6#	116
21	L7	Aroclor-1260 {5}	2.519	2.725	E3	-8.2	99
22	S	DCB	24.117	25.433	E3	-5.5	97

Signal #2
Continuing Calibration File: 15090713.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	26.823	30.763	E3	-14.7	108
2	L1	Aroclor-1016	605.143	698.044		-15.4#	109
3	L1	Aroclor-1016 {2}	1.383	1.572	E3	-13.6	107
4	L1	Aroclor-1016 {3}	2.514	2.783	E3	-10.7	104
5	L1	Aroclor-1016 {4}	804.377	875.140		-8.8	102
6	L1	Aroclor-1016 {5}	0.873	0.945	E3	-8.2	102
17	L7	Aroclor-1260	1.041	1.174	E3	-12.7	106
18	L7	Aroclor-1260 {2}	1.711	1.933	E3	-13.0	106
19	L7	Aroclor-1260 {3}	2.146	2.352	E3	-9.6	106
20	L7	Aroclor-1260 {4}	1.296	1.413	E3	-9.0	103
21	L7	Aroclor-1260 {5}	3.143	3.572	E3	-13.6	107
22	S	DCB	27.500	32.130	E3	-16.8#	108

(#) = Out of Range SPCC's out = 0 CCC's out = 0

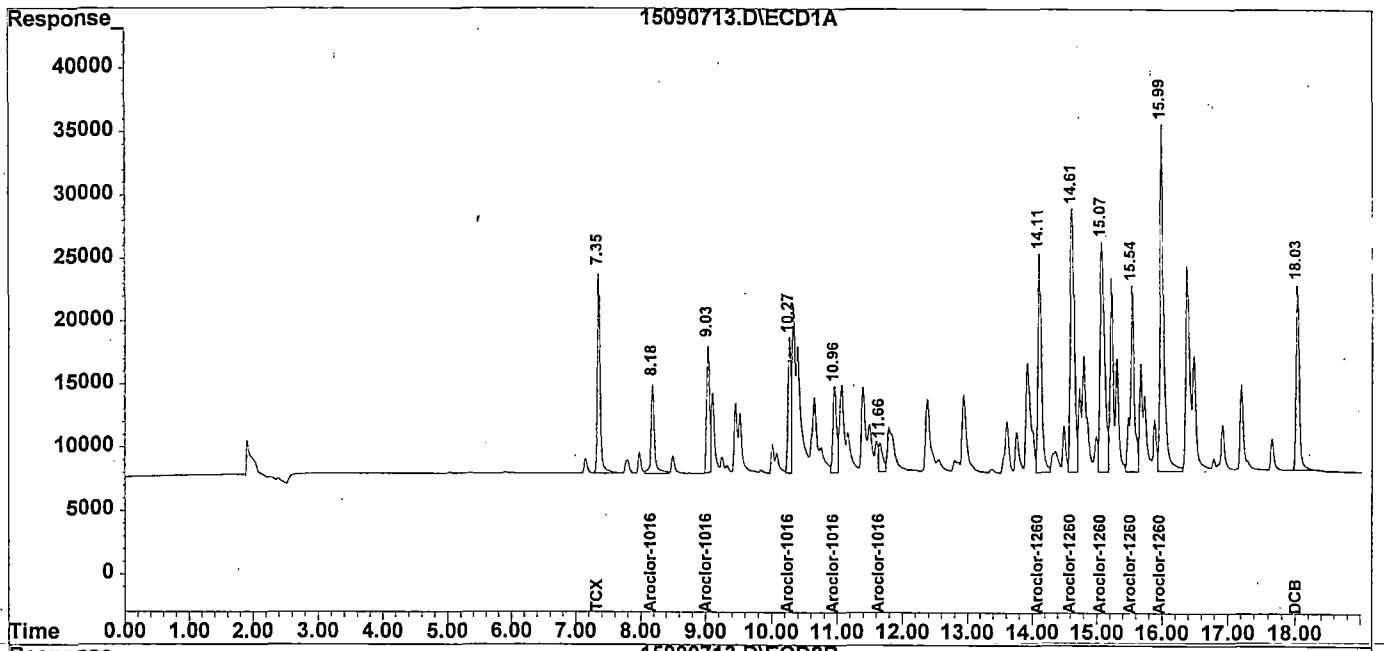
15090713.D XPCBI04.M Sat Sep 08 08:34:54 2001

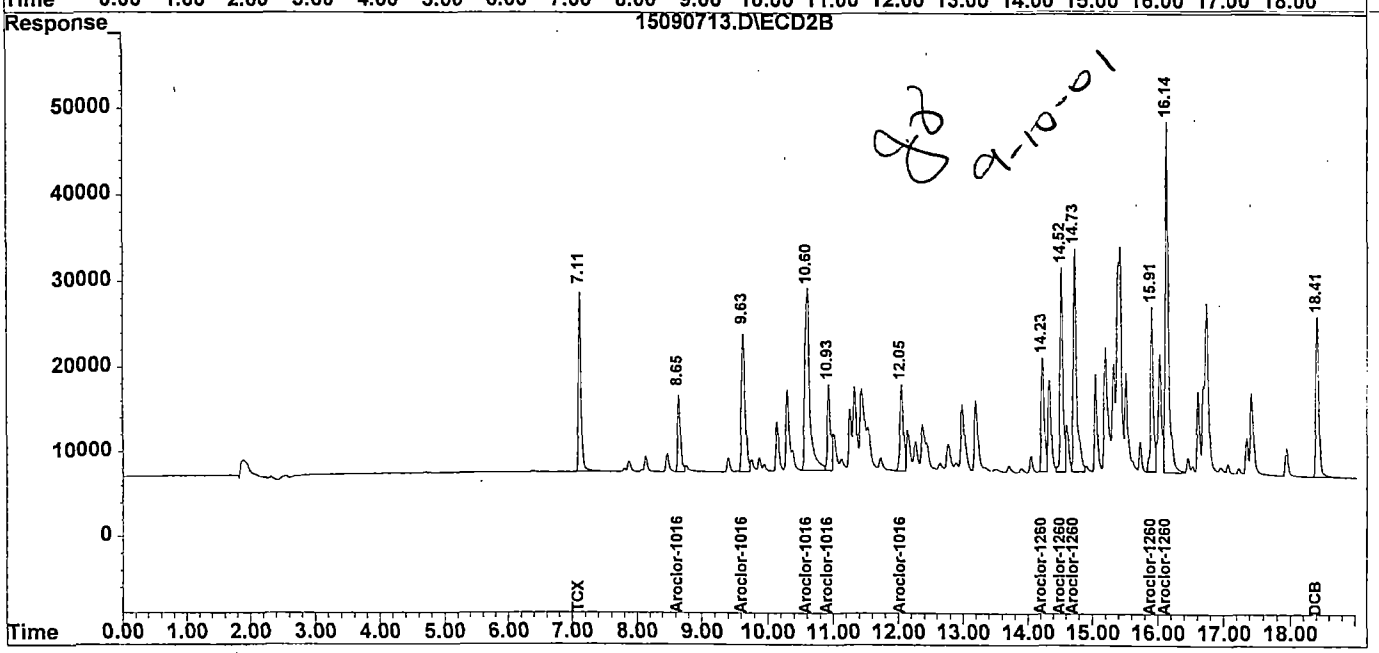
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_07_01\15090713.D\ECD1A.CH Vial: 66
Signal #2 : F:\HPCHEM\HP\15\DATA\09_07_01\15090713.D\ECD2B.CH
Acq On : 07 Sep 2001 17:54 Operator: DDC
Sample : AR1660L3BA Inst : HP_15
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 8 8:34 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Fri Sep 07 16:29:03 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





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_07_01\15090713.D\ECD1A.CH Vial: 66
Signal #2 : F:\HPCHEM\HP\15\DATA\09_07_01\15090713.D\ECD2B.CH
Acq On : 07 Sep 2001 17:54 Operator: DDC
Sample : AR1660L3BA Inst : HP_15
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 8 8:34 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Fri Sep 07 16:29:03 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	7.35	7.12	486894	615254	21.1	22.9
22)	S DCB	18.04	18.41	508659	642591	21.1	23.4
	Target Compounds:						
2)	L1 Aroclor-1016	8.18	8.65	261353	279218	429.2	461.4
3)	L1 Aroclor-1016 {2}	9.04	9.63	302339	628612	412.1	454.4
4)	L1 Aroclor-1016 {3}	10.27	10.61	304729	1113348	401.5	442.8
5)	L1 Aroclor-1016 {4}	10.96	10.93	266897	350056	418.0	435.2
6)	L1 Aroclor-1016 {5}	11.66	12.05	96250	377864	399.0	432.8
	Sum Aroclor-1016			1231567	2749097	2059.8	2226.7
	Average Aroclor-1016					411.954	445.331
17)	L7 Aroclor-1260	14.11	14.23	680374	469461	419.5	450.9
18)	L7 Aroclor-1260 {2}	14.62	14.52	913233	773112	432.3	451.9
19)	L7 Aroclor-1260 {3}	15.07	14.73	895700	940675	430.2	438.3
20)	L7 Aroclor-1260 {4}	15.54	15.91	645566	565332	502.4	436.1
21)	L7 Aroclor-1260 {5}	15.99	16.14	1089960	1428812	432.8	454.6
	Sum Aroclor-1260			4224833	4177391	2217.1	2231.8
	Average Aroclor-1260					443.428	446.361

(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\16\DATA\08_28_01\16082804.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082804.D\ECD2B.CH
Acq On : 28 Aug 2001 13:49 Operator: TLM
Sample : RESCCF Inst : HP_16
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:53 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

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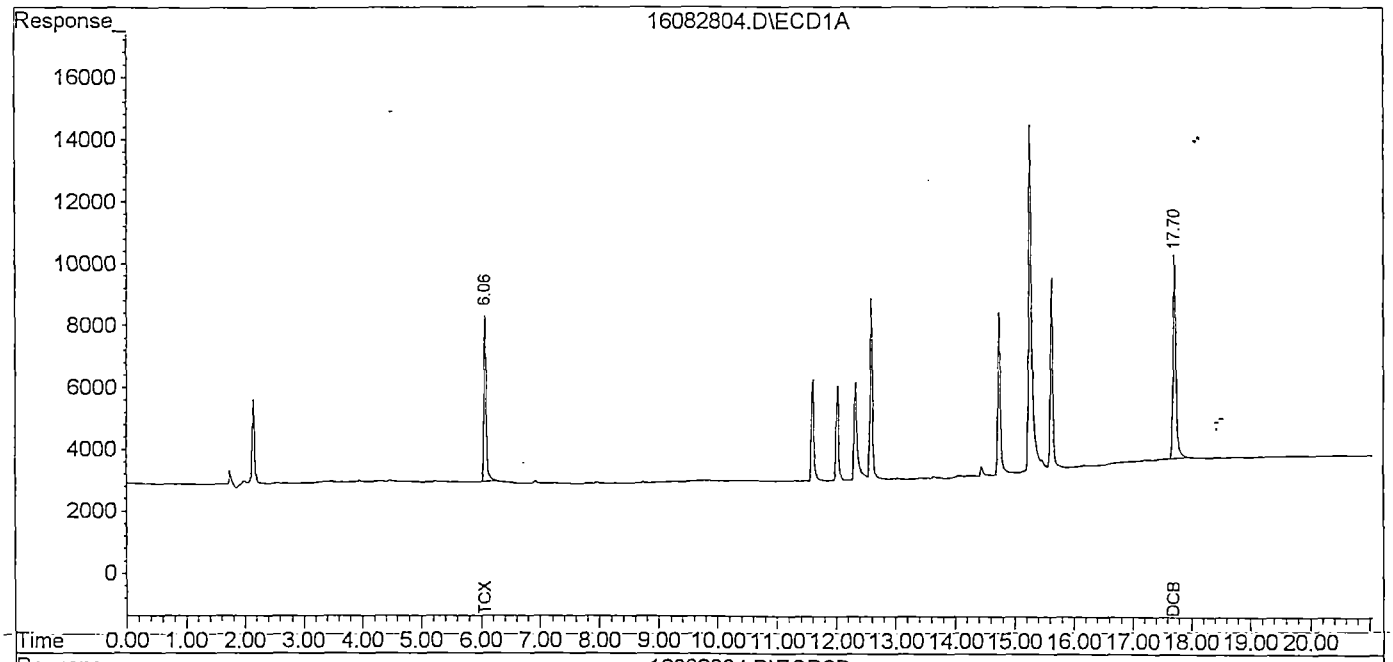
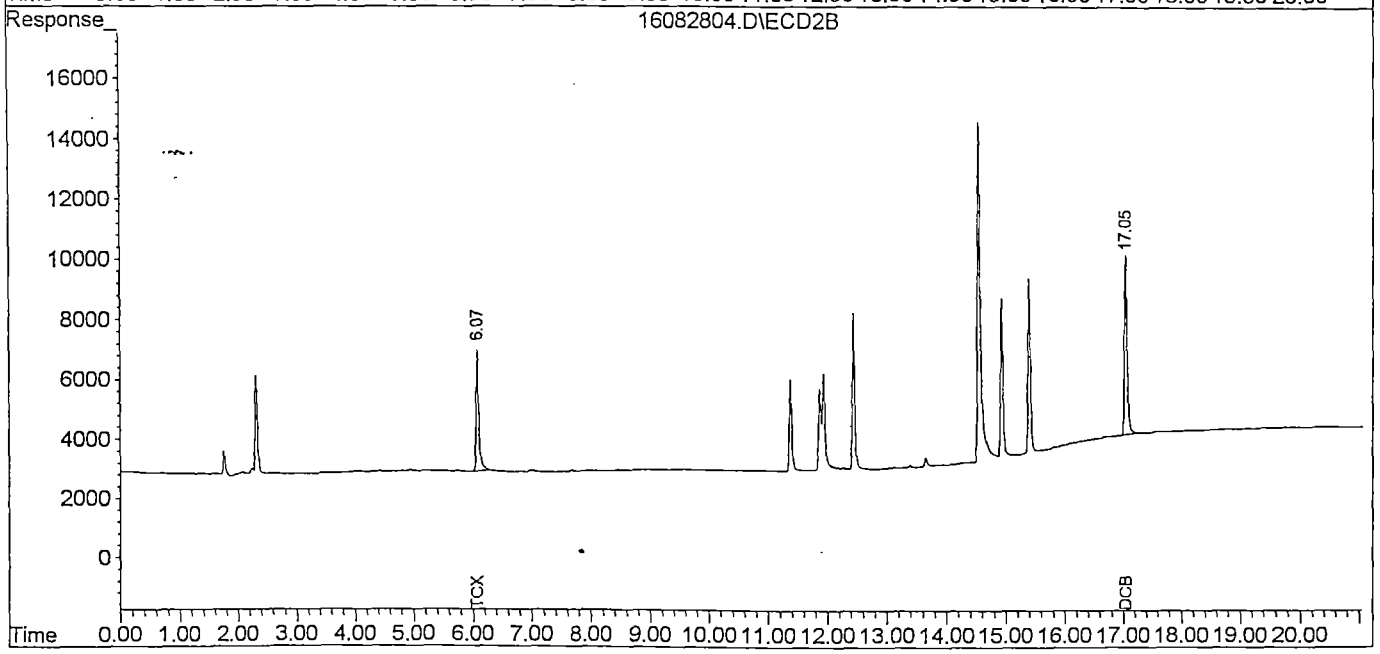
8-30-01





Chromatographic Resolution Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082804.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082804.D\ECD2B.CH
Acq On : 28 Aug 2001 13:49 Operator: TLM
Sample : RESCCF Inst : HP_16
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title : PCB/TOXAPHENE

RT#1	RT#2	Resolution	Compound for RT#1
6.067	17.706	100.00%	TCX
Signal #2			
6.074	17.052	100.00%	TCX #2

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29546 SDG E0041
Signature S Jackett
Date 8/31/01

* = Value less than resolution criteria, 60 for RESC, 90 for PEM, INDA, INDB
16082804.D XPCBH28.M Wed Aug 29 15:53:52 2001

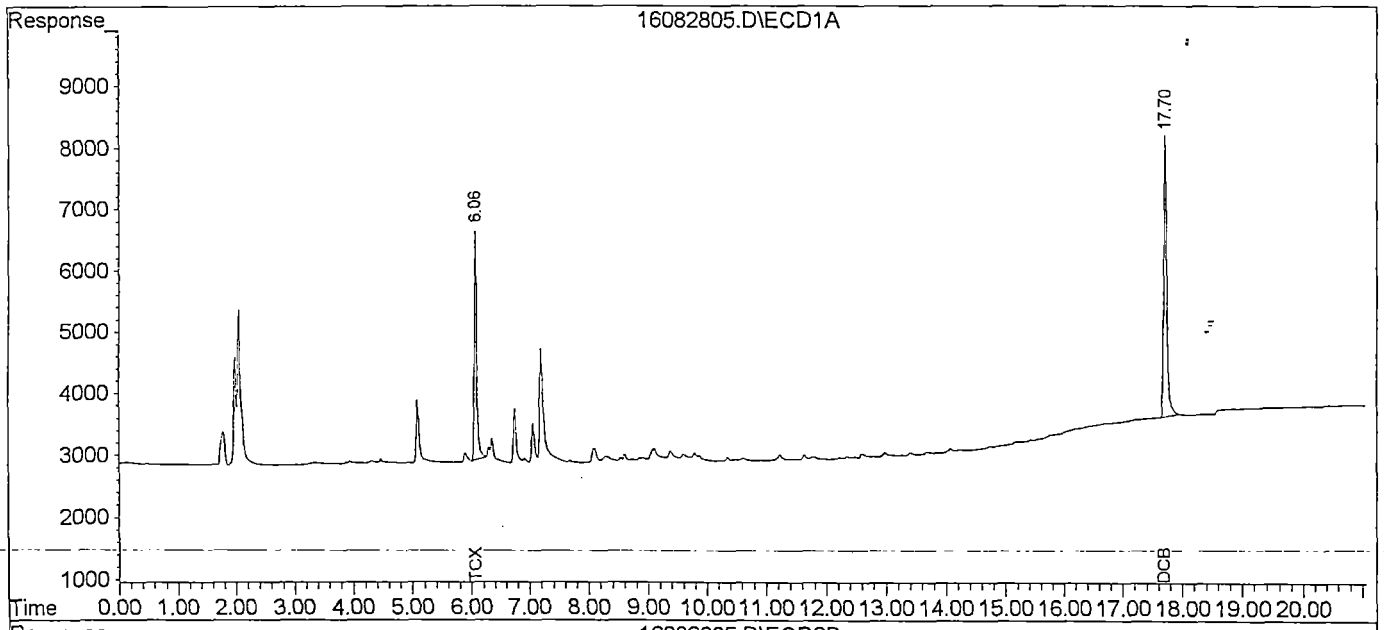
Chromatographic Report

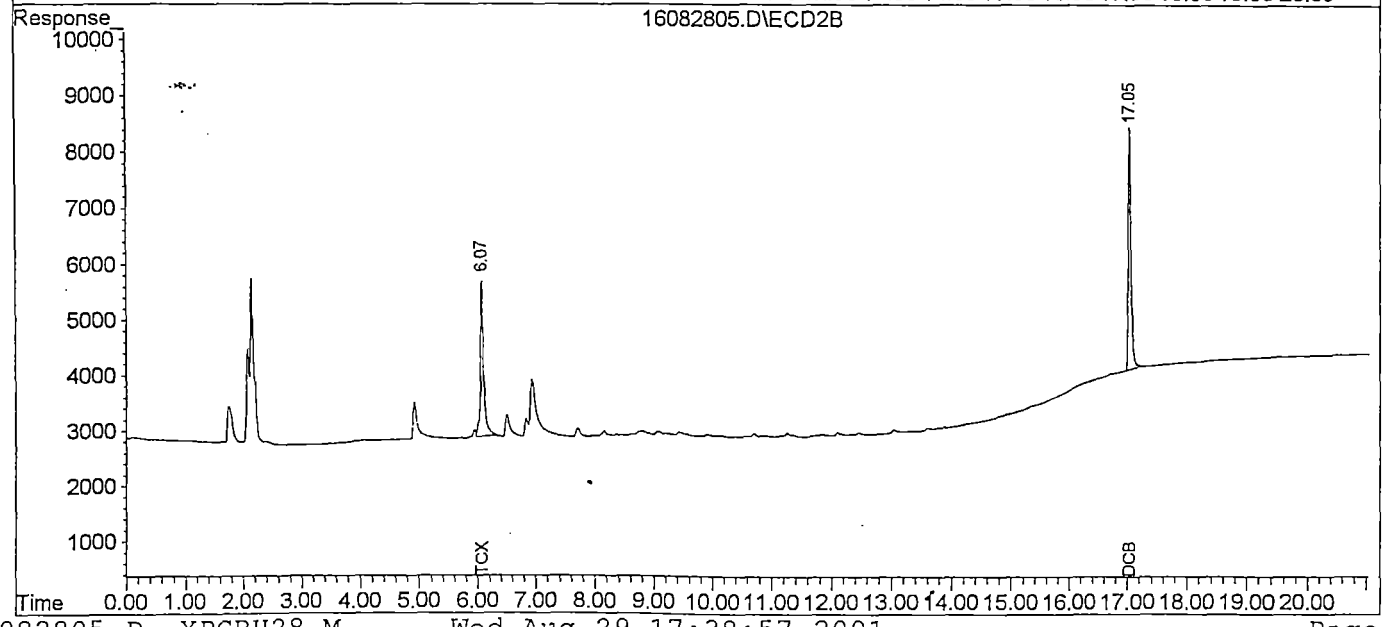
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082805.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082805.D\ECD2B.CH
Acq On : 28 Aug 2001 14:13 Operator: TLM
Sample : AR1221L3CF Inst : HP_16
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 17:32 2001 Quant Results File: XPCBH28.RES
Quant Time: Aug 29 17:38 2001 Quant Results File: xspcbh28.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001

Multi-Component Method : f:\hpchem\hp\16\data\08_28_01\xspcbh28.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 8-30-01





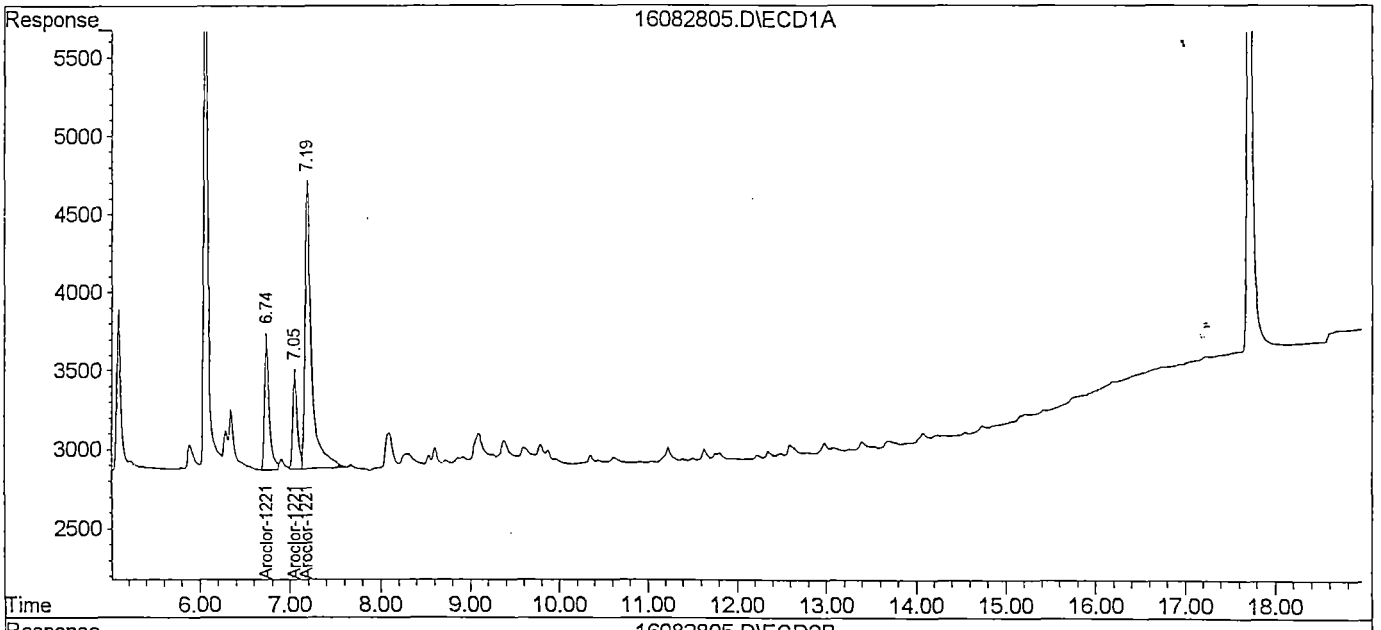
Chromatographic Report

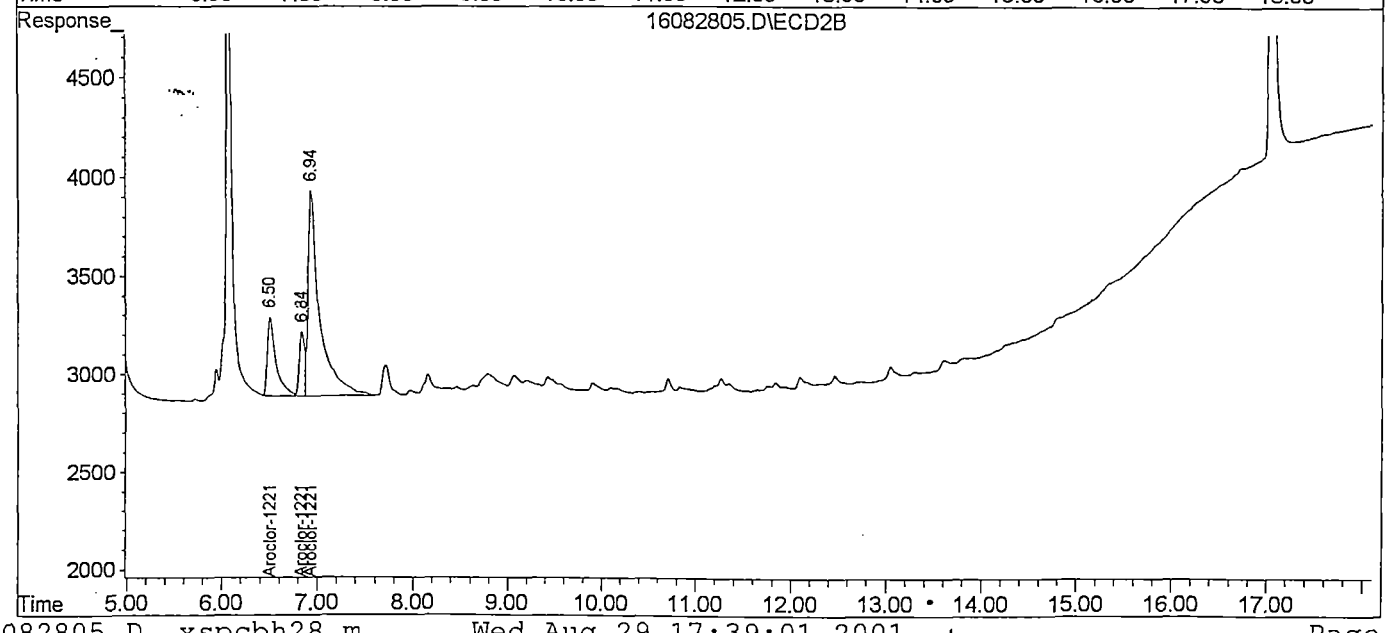
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082805.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082805.D\ECD2B.CH
Acq On : 28 Aug 2001 14:13 Operator: TLM
Sample : AR1221L3CF ✓ Inst : HP_16
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 29 17:38 2001 Quant Results File: xspcbh28.RES
Quant Time: Aug 29 17:38 2001 Quant Results File: xspcbh28.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001

Multi-Component Method : f:\hpchem\hp\16\data\08_28_01\xspcbh28.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 8-30-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082805.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082805.D\ECD2B.CH
Acq On : 28 Aug 2001 14:13 Operator: TLM
Sample : AR1221L3CF Inst : HP_16
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 17:32 2001 Quant Results File: XPCBH28.RES
Multi Time: Aug 29 17:38 2001 Quant Results File: xspcbh28.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001

Multi-Component Method : f:\hpchem\hp\16\data\08_28_01\xspcbh28.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.07	6.07	105091	107927	21.0	19.3
22)	S DCB	17.71	17.05	165771	139444	19.7	18.0
	Target Compounds:						
	Multi-Component Compounds:						
2)	L2 Aroclor-1221	6.74	6.51	30395	24913	400.0	400.0
3)	L2 Aroclor-1221 {2}	7.06	6.84	21774	12131	400.0	400.0
4)	L2 Aroclor-1221 {3}	7.19	6.94	91145	89046	400.0	400.0
	Sum Aroclor-1221			143314	126090	1200.0	1200.0
	Average Aroclor-1221					400.000	400.000

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

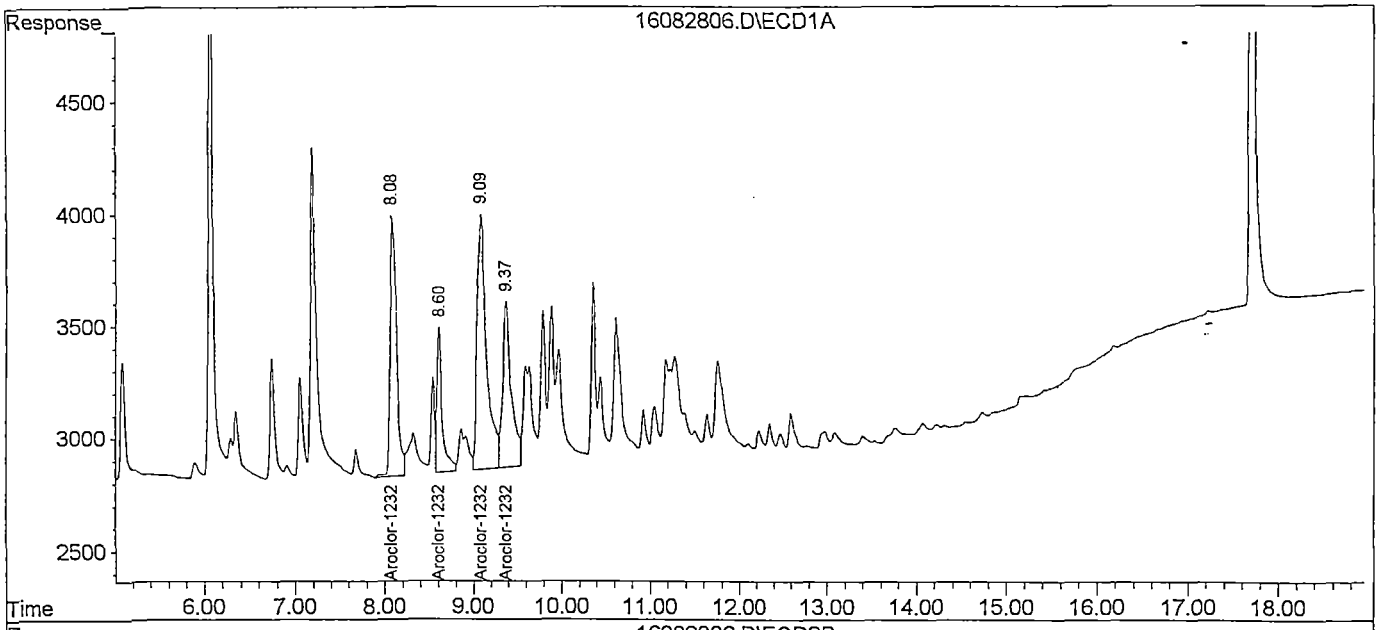
Chromatographic Report

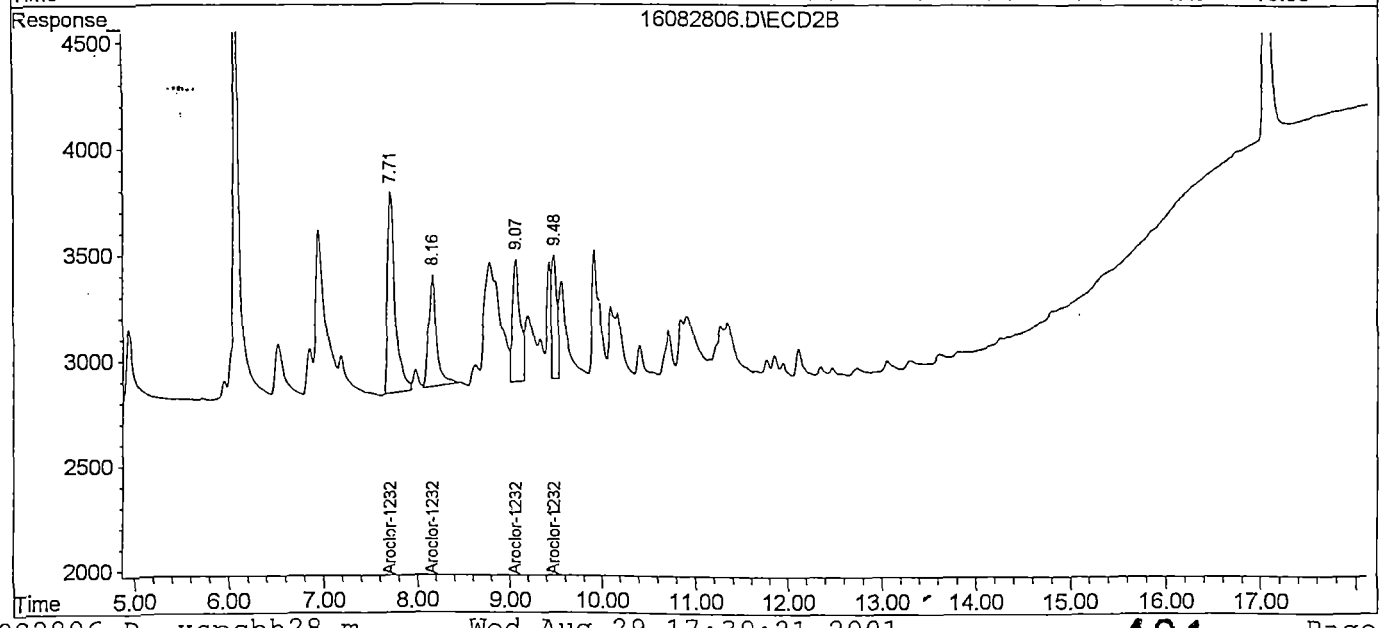
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082806.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082806.D\ECD2B.CH
Acq On : 28 Aug 2001 14:38 Operator: TLM
Sample : AR1232L3CF ✓ Inst : HP_16
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 29 17:38 2001 Quant Results File: xspcbh28.RES
Quant Time: Aug 29 17:38 2001 Quant Results File: xspcbh28.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001

Multi-Component Method : f:\hpchem\hp\16\data\08_28_01\xspcbh28.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 8-30-01 RB





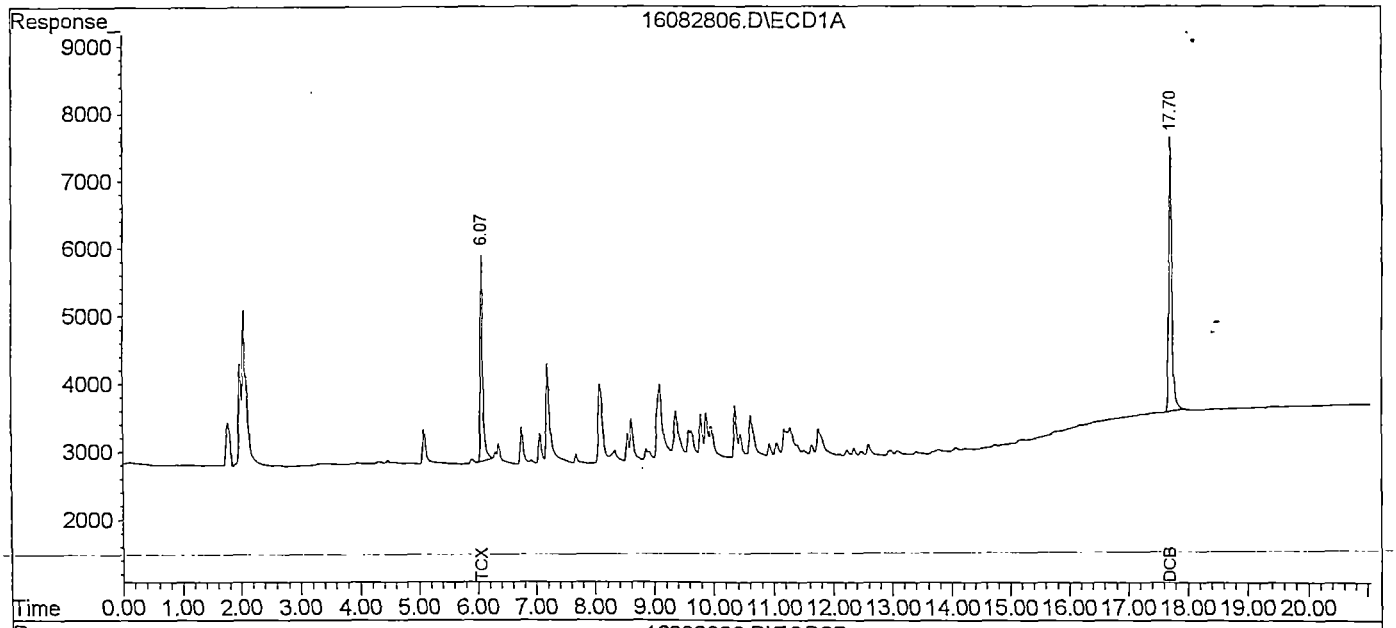
Chromatographic Report

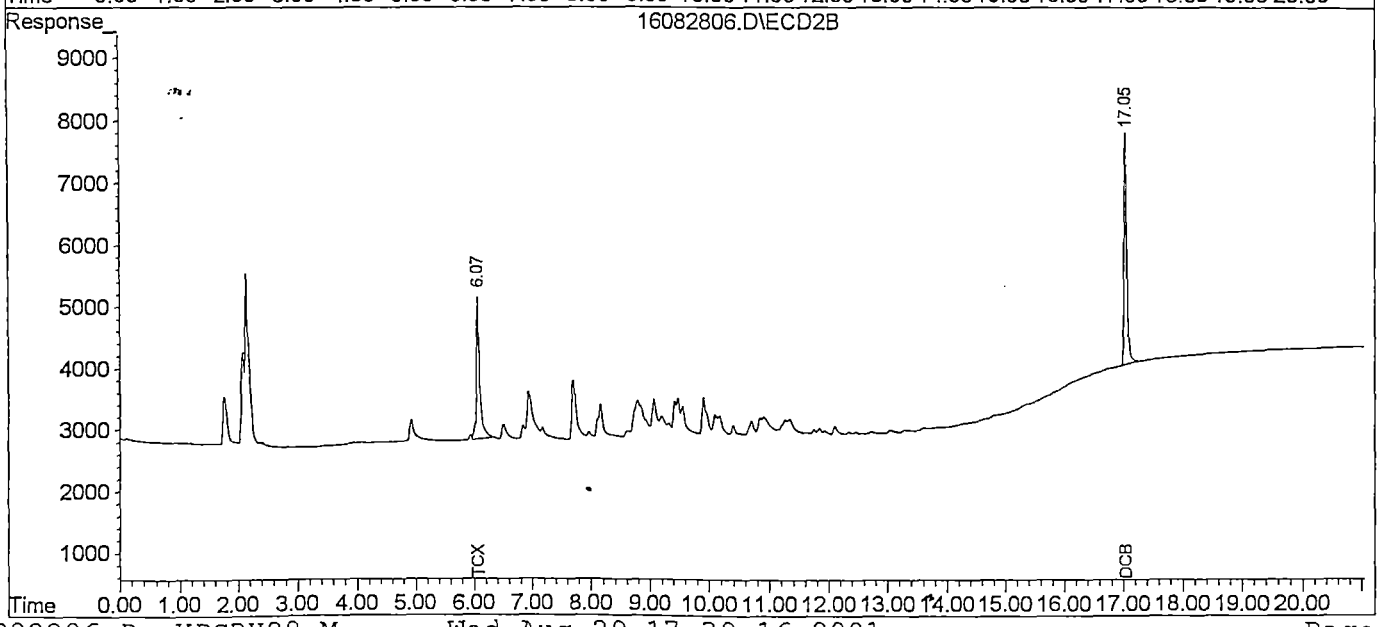
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082806.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082806.D\ECD2B.CH
Acq On : 28 Aug 2001 14:38 Operator: TLM
Sample : AR1232L3CF Inst : HP_16
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 17:32 2001 Quant Results File: XPCBH28.RES
Quant Time: Aug 29 17:38 2001 Quant Results File: xspcbh28.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001

Multi-Component Method : f:\hpchem\hp\16\data\08_28_01\xspcbh28.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 8-30-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082806.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082806.D\ECD2B.CH
Acq On : 28 Aug 2001 14:38 Operator: TLM
Sample : AR1232L3CF Inst : HP_16
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 17:32 2001 Quant Results File: XPCBH28.RES
Multi Time: Aug 29 17:38 2001 Quant Results File: xspcbh28.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001

Multi-Component Method : f:\hpchem\hp\16\data\08_28_01\xspcbh28.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.07	6.08	90496	92604	18.1	16.5
22)	S DCB	17.71	17.05	147827	122813	17.6	15.9
	Target Compounds:						
	Multi-Component Compounds:						
5)	L3 Aroclor-1232	8.08	7.71	58780	51520	400.0	400.0
6)	L3 Aroclor-1232 {2}	8.61	8.16	26955	30218	400.0	400.0
7)	L3 Aroclor-1232 {3}	9.09	9.07	84304	33278	400.0	400.0
8)	L3 Aroclor-1232 {4}	9.37	9.48	50293	21803	400.0	400.0
	Sum Aroclor-1232			220332	136820	1600.0	1600.0
	Average Aroclor-1232					400.000	400.000

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

Response Factor Report HP_16

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Calibration Files
L1 =16082807.D L2 =16082808.D L3 =16082809.D
L4 =16082810.D L5 =16082811.D

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Compound	L1	L2	L3	L4	L5	Avg	%RSD
7) Aroclor-1242	273.8	198.1	266.7	194.2	191.7	224.9	18.46
8) Aroclor-1242 {2}	161.7	111.8	165.0	116.5	117.7	134.6	19.64
9) Aroclor-1242 {3}	89.4	64.5	92.1	69.2	64.0	75.8	18.16
10) Aroclor-1242 {4}	220.4	159.8	245.1	178.1	167.1	194.1	19.03
11) Aroclor-1242 {5}	54.1	37.0	62.1	48.3	50.0	50.3	18.15
Average %RSD							

Signal #2 Calibration Files
L1 =16082807.D L2 =16082808.D L3 =16082809.D
L4 =16082810.D L5 =16082811.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
30) Aroclor-1242 #2	206.9	144.2	209.4	154.7	157.7	174.6	17.79
31) Aroclor-1242 {2} #2	118.7	84.9	126.9	96.9	101.5	105.8	15.97
32) Aroclor-1242 {3} #2	116.0	79.2	113.2	80.9	78.3	93.5	20.64
33) Aroclor-1242 {4} #2	215.9	150.0	222.6	163.1	165.4	183.4	18.18
34) Aroclor-1242 {5} #2	76.5	48.2	86.9	65.0	72.3	69.8	20.68
Average %RSD							

(#) = Out of Range

XPCBH28.M Wed Aug 29 15:41:03 2001

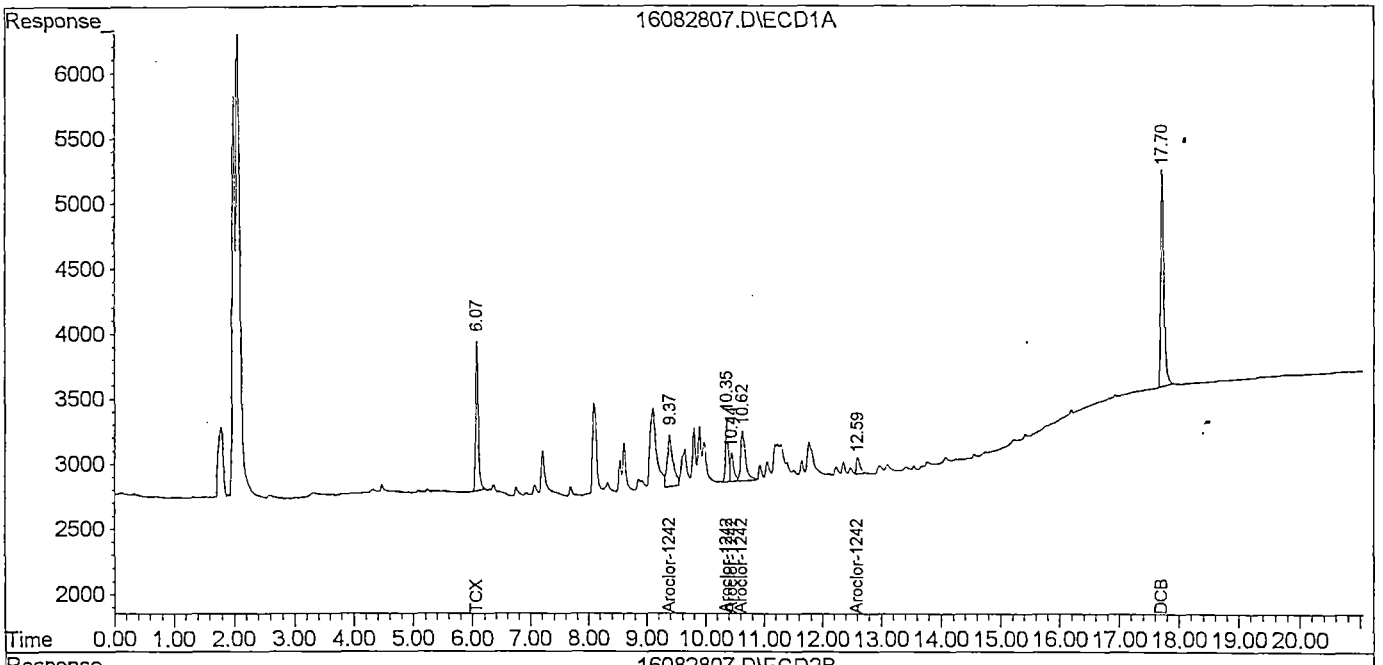
Chromatographic Report

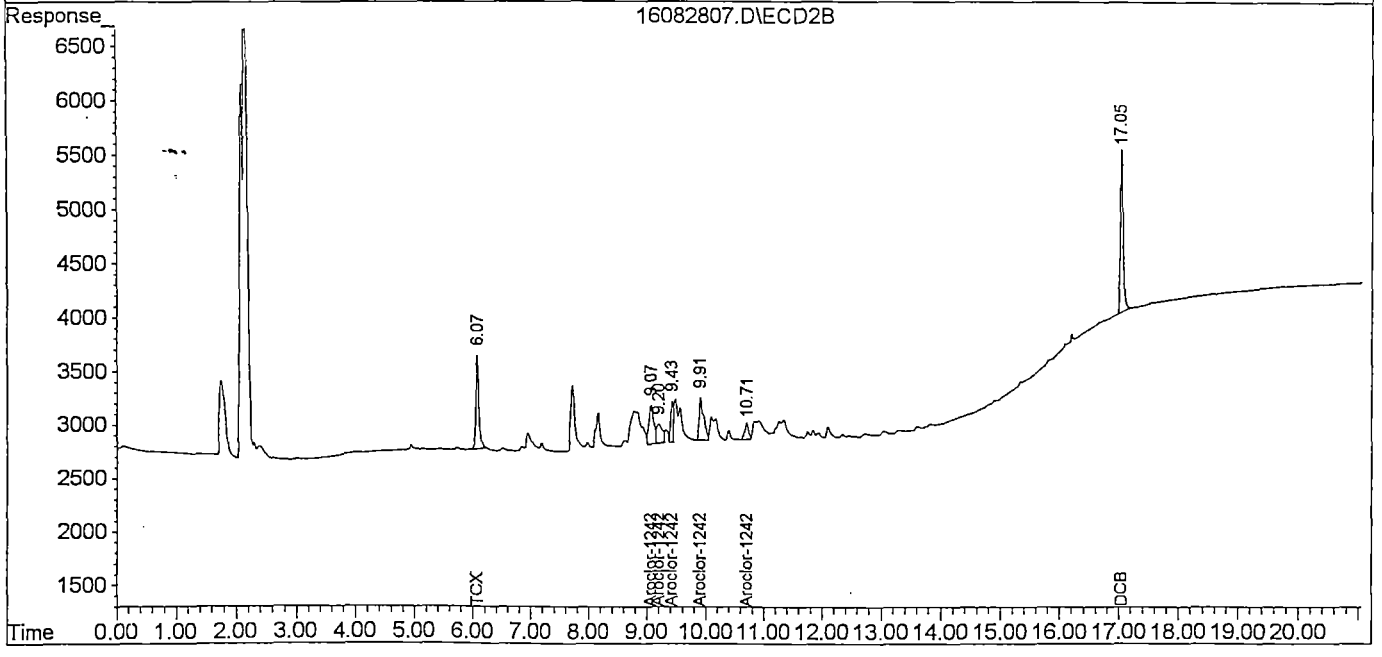
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082807.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082807.D\ECD2B.CH
Acq On : 28 Aug 2001 15:03 Operator: TLM
Sample : AR1242L1CF Inst : HP_16
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:39 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_27_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 8-30-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082807.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082807.D\ECD2B.CH
Acq On : 28 Aug 2001 15:03 Operator: TLM
Sample : AR1242L1CF Inst : HP_16
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:39 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_27_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.07	6.08	33553	30659	6.715	5.532
22)	S DCB	17.71	17.05	59935	48357	7.224	6.362
	Target Compounds:						
7)	L4 Aroclor-1242	9.38	9.07	27381	20687	121.7	118.5
8)	L4 Aroclor-1242 {2}	10.36	9.20	16174	11865	120.2	112.2
9)	L4 Aroclor-1242 {3}	10.44	9.43	8940	11603	117.9	124.1
10)	L4 Aroclor-1242 {4}	10.62	9.91	22036	21587	113.5	117.7
11)	L4 Aroclor-1242 {5}	12.60	10.71	5408	7646	107.5	109.6
	Sum Aroclor-1242			79939	73388	580.9	582.1
	Average Aroclor-1242					116.175	116.410

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

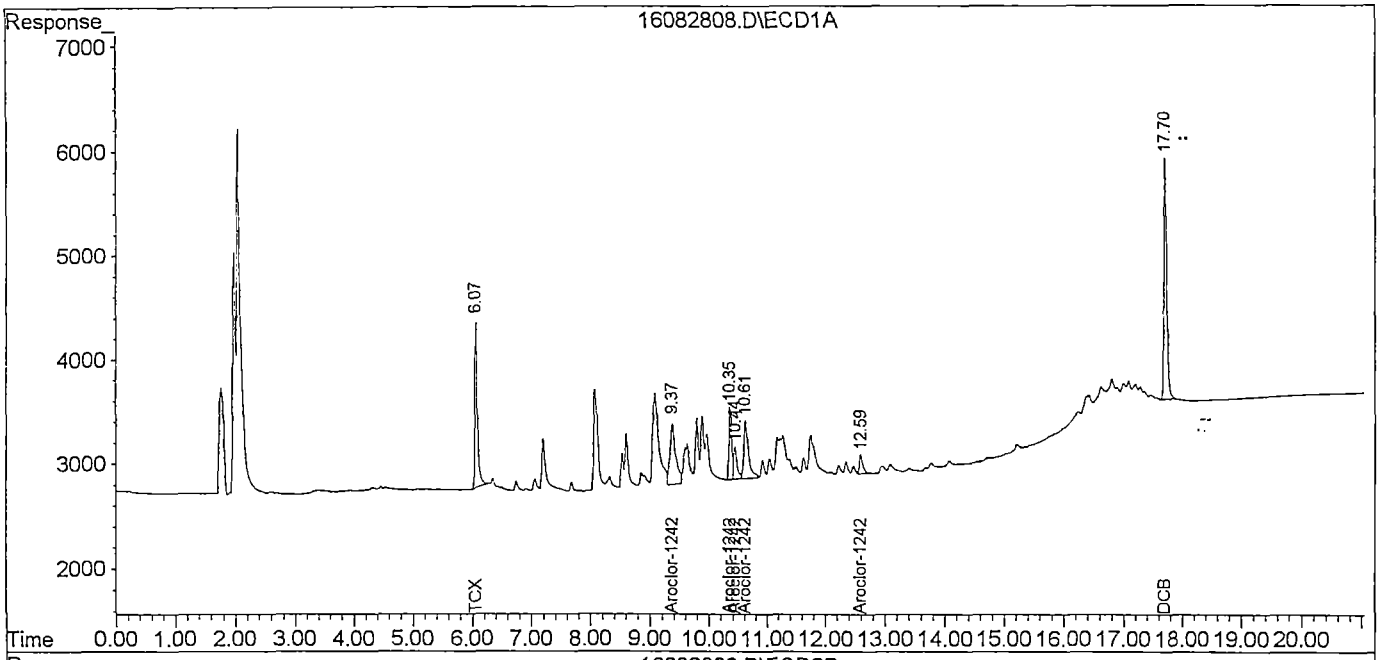
Chromatographic Report

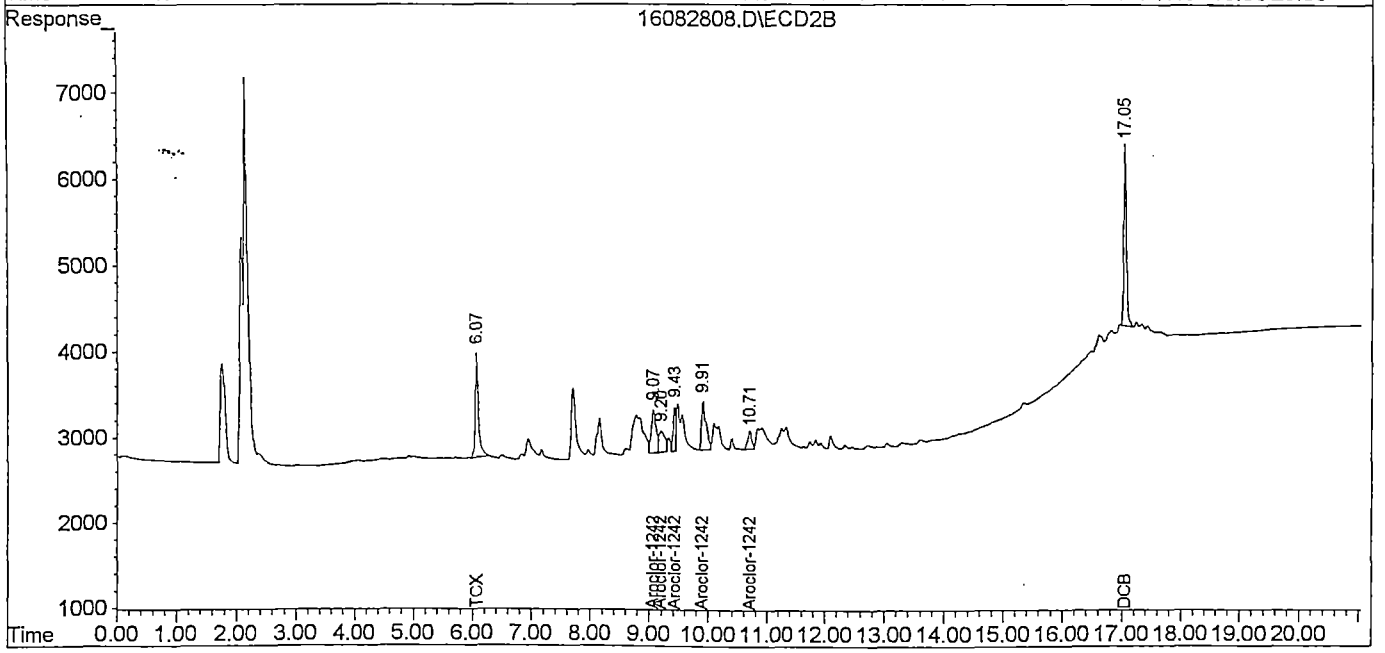
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082808.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082808.D\ECD2B.CH
Acq On : 28 Aug 2001 15:28 Operator: TLM
Sample : AR1242L2CF Inst : HP_16
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:40 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

ok 8-30-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082808.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082808.D\ECD2B.CH
Acq On : 28 Aug 2001 15:28 Operator: TLM
Sample : AR1242L2CF Inst : HP_16
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:40 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.07	6.08	47204	46308	8.614	7.850
22)	S DCB	17.70	17.05	78098	64738	8.600	8.000
	Target Compounds:						
7)	L4 Aroclor-1242	9.37	9.07	39629	28835	176.2	165.2
8)	L4 Aroclor-1242 {2}	10.36	9.20	22359	16988	166.2	160.6
9)	L4 Aroclor-1242 {3}	10.44	9.43	12906	15842	170.2	169.4
10)	L4 Aroclor-1242 {4}	10.62	9.91	31965	29999	164.7	163.6
11)	L4 Aroclor-1242 {5}	12.60	10.71	7400	9632	147.1	138.1
	Sum Aroclor-1242			114259	101297	824.4	796.8
	Average Aroclor-1242					164.872	159.365

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

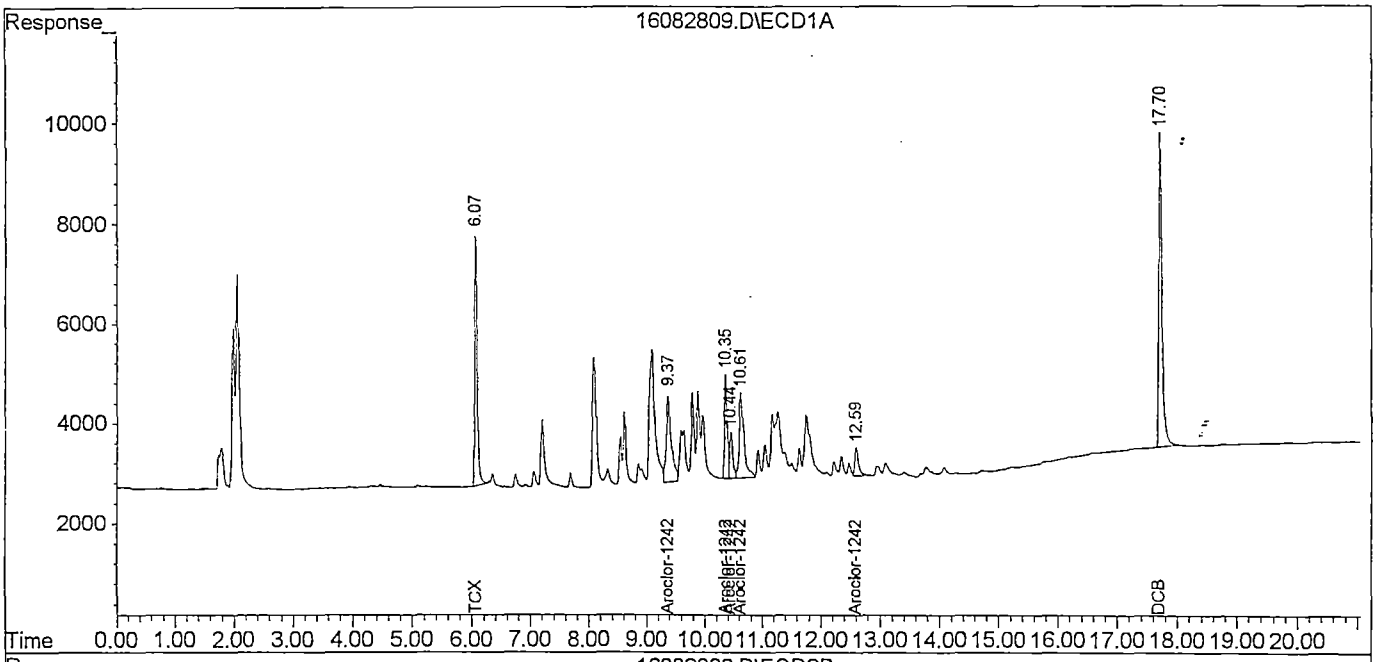
Chromatographic Report

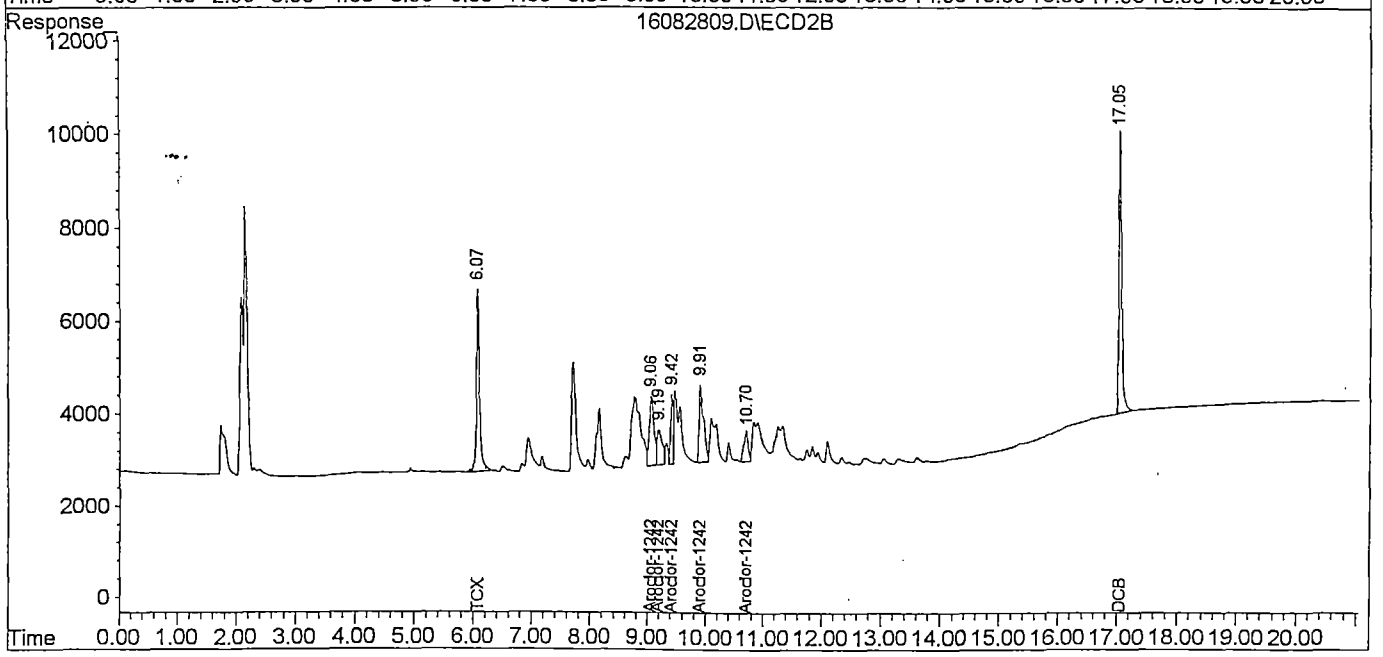
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082809.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082809.D\ECD2B.CH
Acq On : 28 Aug 2001 15:52 Operator: TLM
Sample : AR1242L3CF Inst : HP_16
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:40 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_20_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

ok
8-30-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082809.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082809.D\ECD2B.CH
Acq On : 28 Aug 2001 15:52 Operator: TLM
Sample : AR1242L3CF Inst : HP_16
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:40 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_20_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.07	6.08	139817	142087	26.1	25.3
22)	S DCB	17.70	17.05	232173	200494	26.7	26.3
	Target Compounds:						
7)	L4 Aroclor-1242	9.37	9.06	106668	83741	474.3	479.7
8)	L4 Aroclor-1242 {2}	10.35	9.20	66006	50752	490.6	479.8
9)	L4 Aroclor-1242 {3}	10.44	9.43	36825	45286	485.5	484.2
10)	L4 Aroclor-1242 {4}	10.62	9.91	98043	89055	505.1	485.6
11)	L4 Aroclor-1242 {5}	12.60	10.71	24822	34748	493.5	498.1
	Sum Aroclor-1242			332364	303581	2449.0	2427.4
	Average Aroclor-1242					489.807	485.481

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

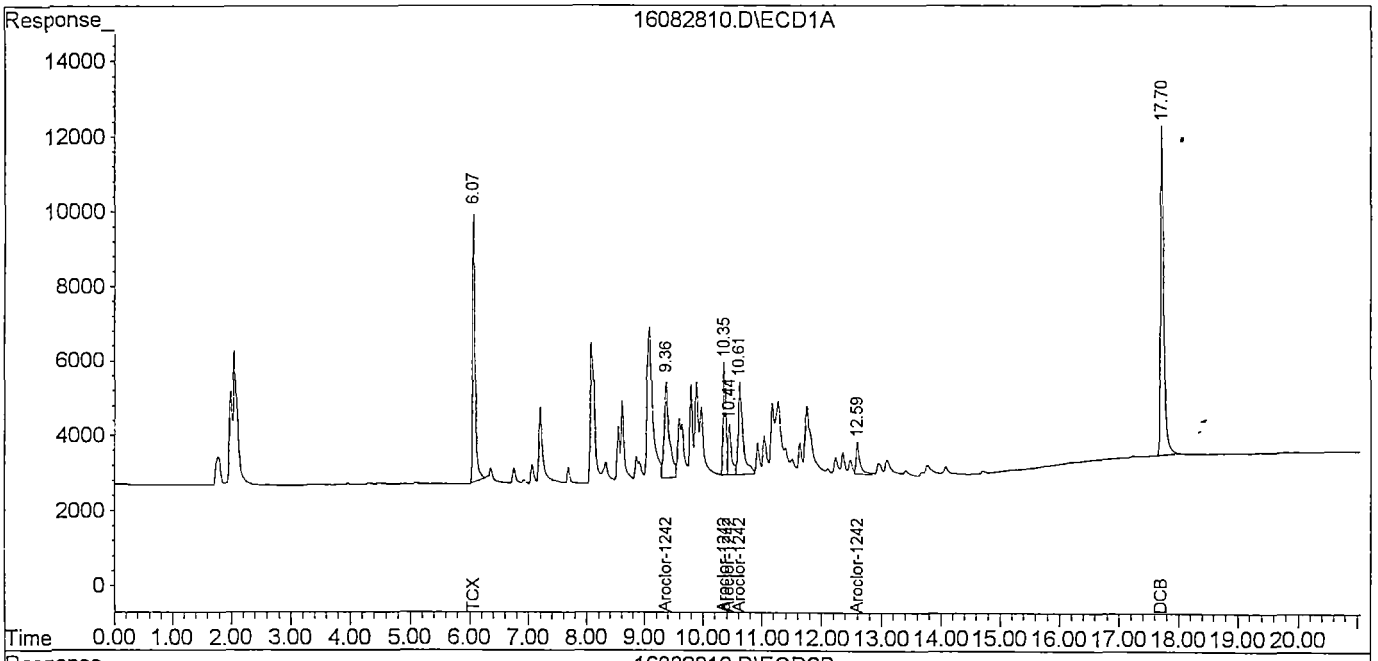
Chromatographic Report

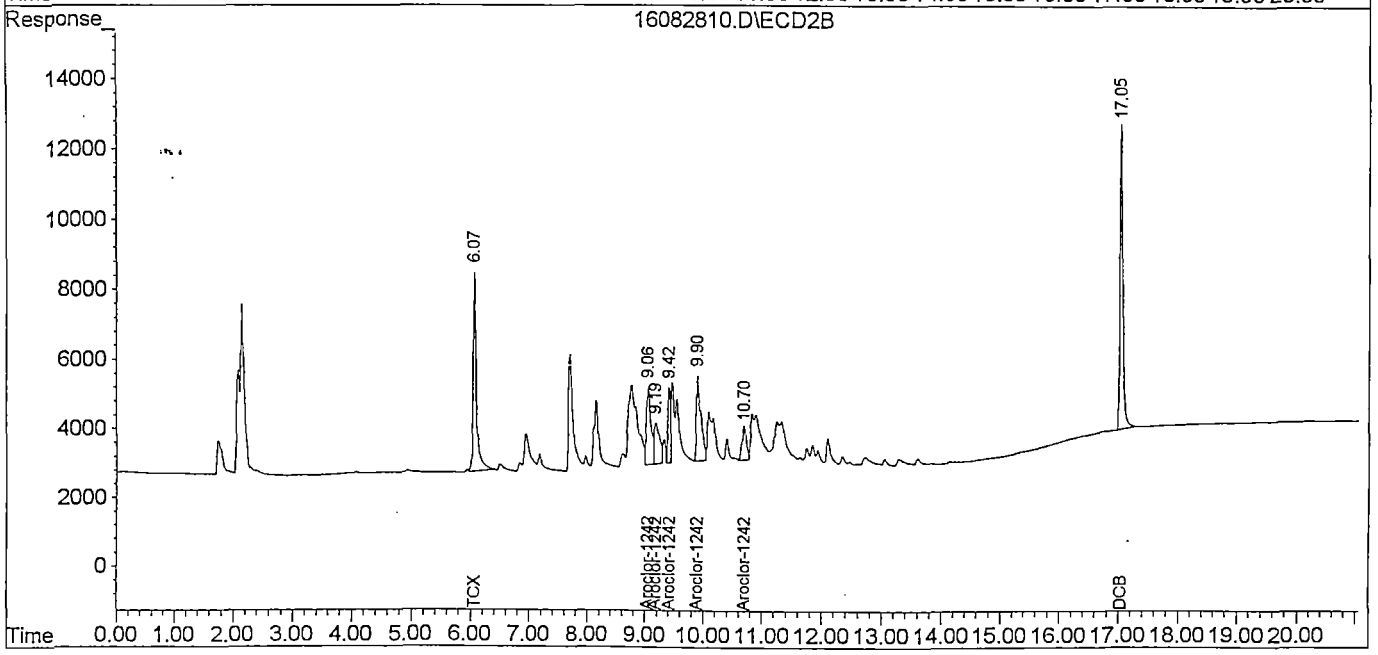
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082810.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082810.D\ECD2B.CH
Acq On : 28 Aug 2001 16:17 Operator: TLM
Sample : AR1242L4CF Inst : HP_16
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:40 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

ok 8-30-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082810.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082810.D\ECD2B.CH
Acq On : 28 Aug 2001 16:17 Operator: TLM
Sample : AR1242L4CF Inst : HP_16
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:40 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.07	6.08	208899	222737	36.3	37.7
22)	S DCB	17.70	17.05	328628	291389	35.3	36.2
	Target Compounds:						
7)	L4 Aroclor-1242	9.37	9.06	155373	123777	690.8	709.1
8)	L4 Aroclor-1242 {2}	10.35	9.19	93223	77538	692.8	733.0
9)	L4 Aroclor-1242 {3}	10.44	9.43	55360	64699	729.9	691.8
10)	L4 Aroclor-1242 {4}	10.61	9.91	142477	130450	734.1	711.3
11)	L4 Aroclor-1242 {5}	12.59	10.71	38649	52021	768.5	745.8
	Sum Aroclor-1242			485083	448484	3616.1	3590.9
	Average Aroclor-1242					723.226	718.173

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

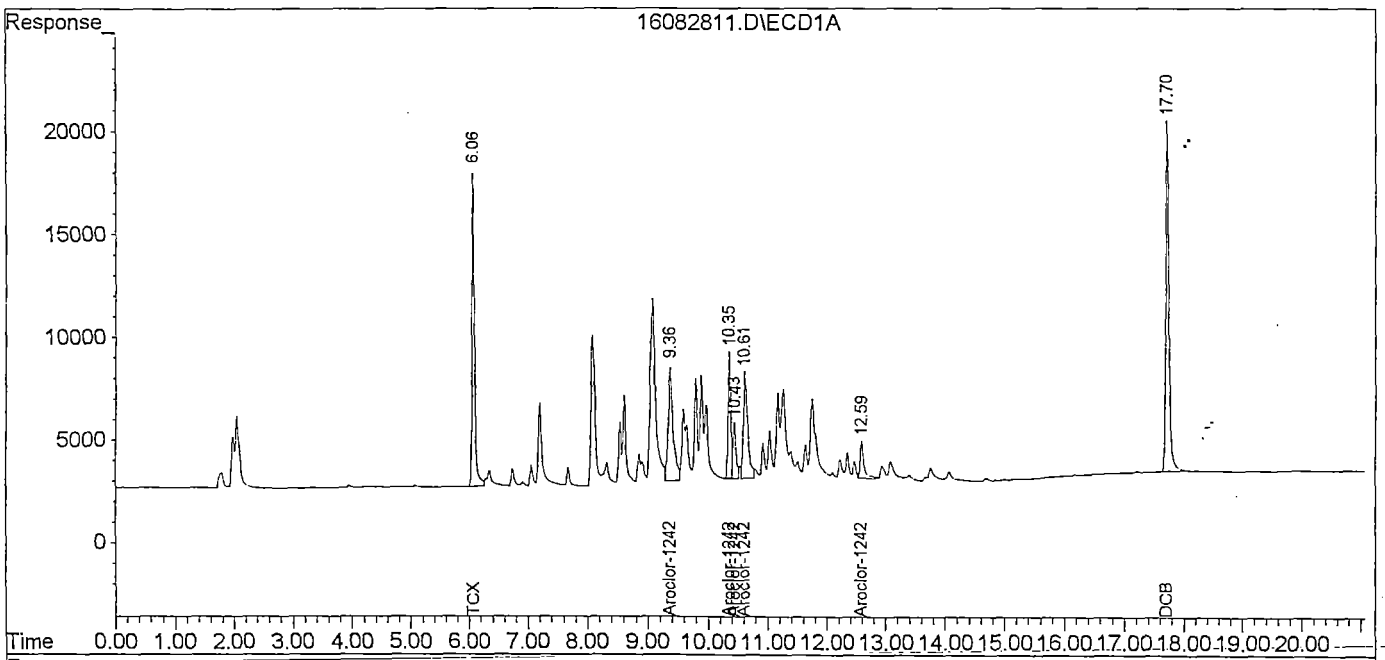
Chromatographic Report

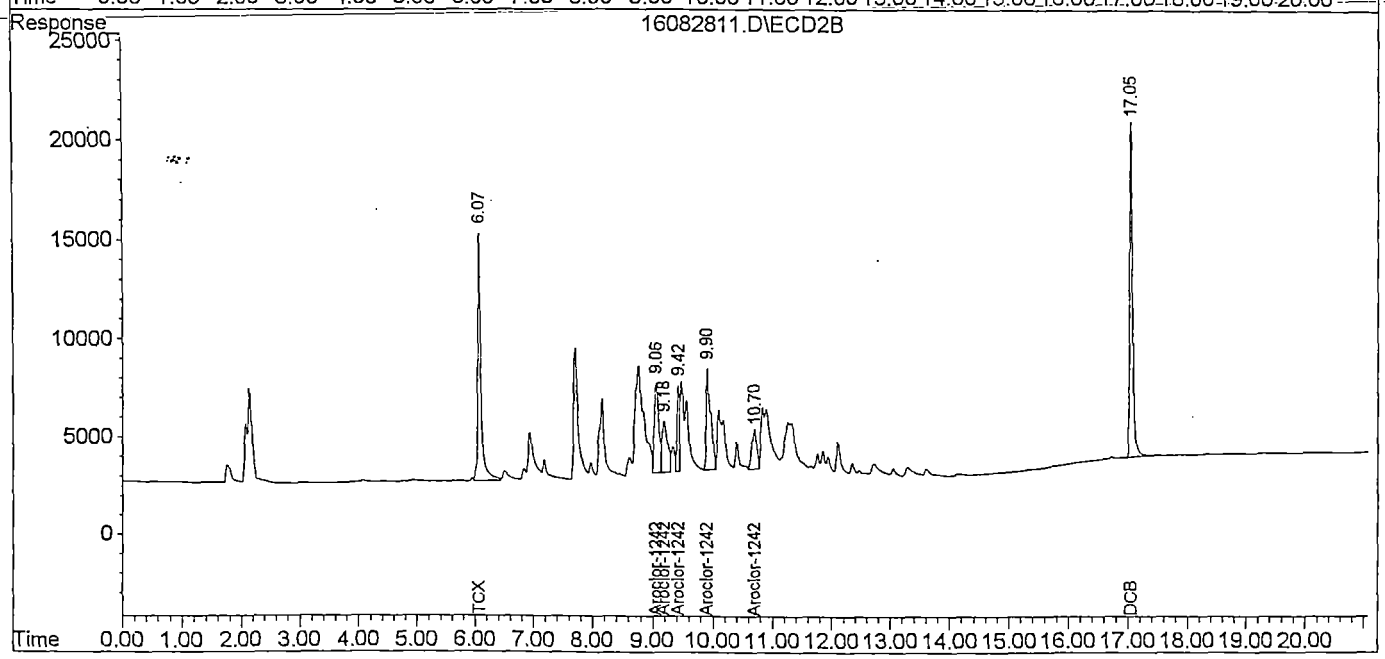
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082811.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082811.D\ECD2B.CH
Acq On : 28 Aug 2001 16:42 Operator: TLM
Sample : AR1242L5CF Inst : HP_16
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:40 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

oh 8-30-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082811.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082811.D\ECD2B.CH
Acq On : 28 Aug 2001 16:42 Operator: TLM
Sample : AR1242L5CF Inst : HP_16
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:40 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.07	6.07	457475	489687	80.2 E	84.9 E
22)	S DCB	17.70	17.05	624978	562117	67.7 E	71.3 E
	Target Compounds:						
7)	L4 Aroclor-1242	9.36	9.06	306768	252319	1363.9 E	1445.4
8)	L4 Aroclor-1242 {2}	10.35	9.19	188293	162431	1399.4	1535.5 E
9)	L4 Aroclor-1242 {3}	10.44	9.42	102446	125278	1350.8 E	1339.5
10)	L4 Aroclor-1242 {4}	10.61	9.90	267283	264708	1377.1 E	1443.3 E
11)	L4 Aroclor-1242 {5}	12.59	10.70	80043	115617	1591.5	1657.5 E
	Sum Aroclor-1242			944833	920353	7082.7	7421.2
	Average Aroclor-1242					1416.543	1484.244

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

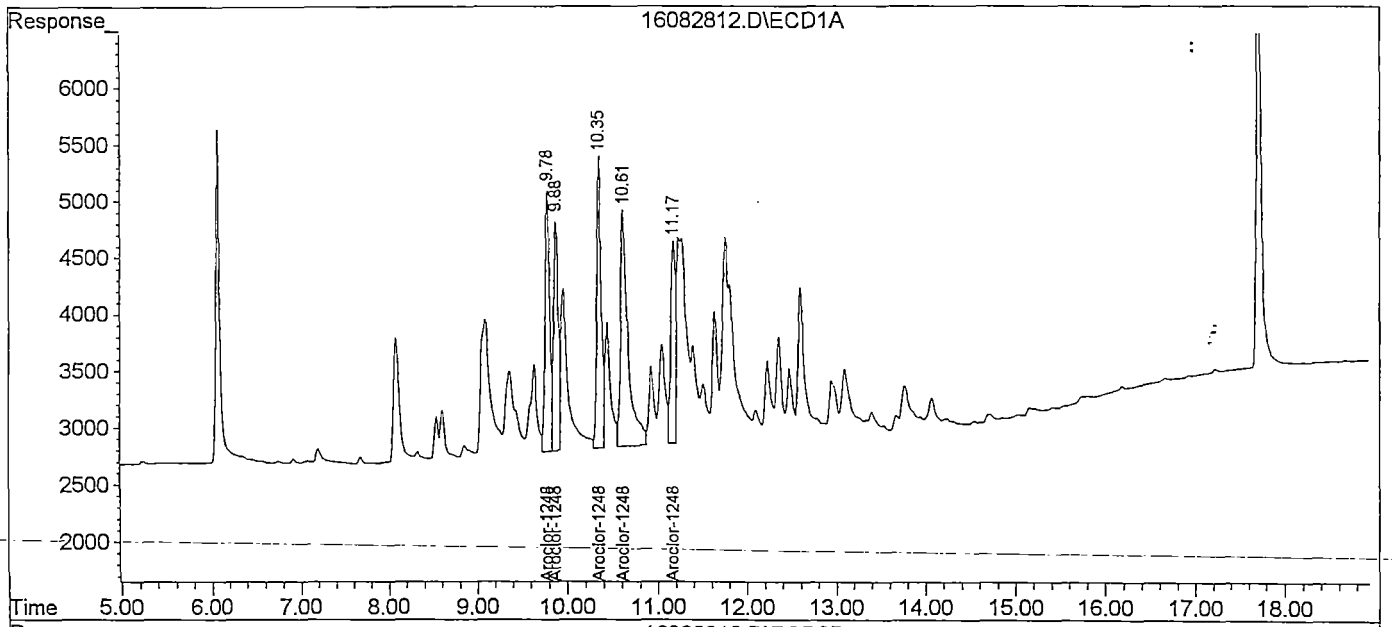
Chromatographic Report

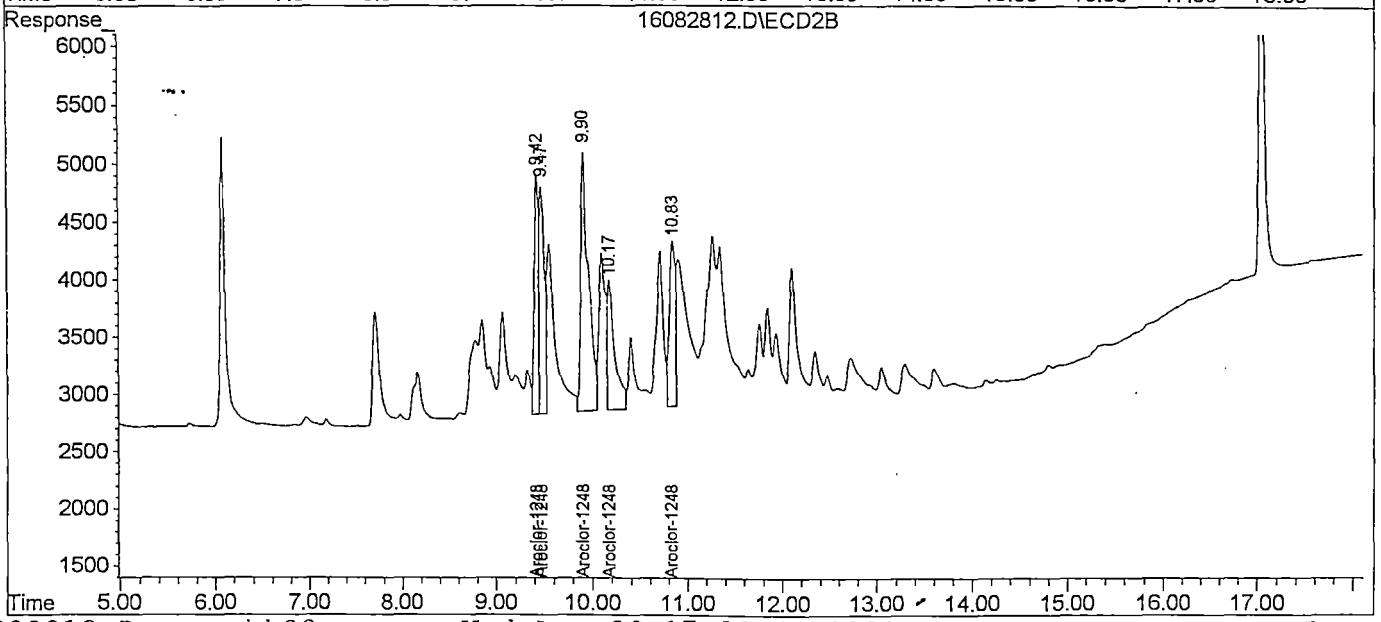
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082812.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082812.D\ECD2B.CH
Acq On : 28 Aug 2001 17:06 Operator: TLM
Sample : AR1248L3CF Inst : HP_16
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 29 17:33 2001 Quant Results File: xspcbh28.RES
Quant Time: Aug 29 17:33 2001 Quant Results File: xspcbh28.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001

Multi-Component Method : f:\hpchem\hp\16\data\08_28_01\xspcbh28.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 8-30-01





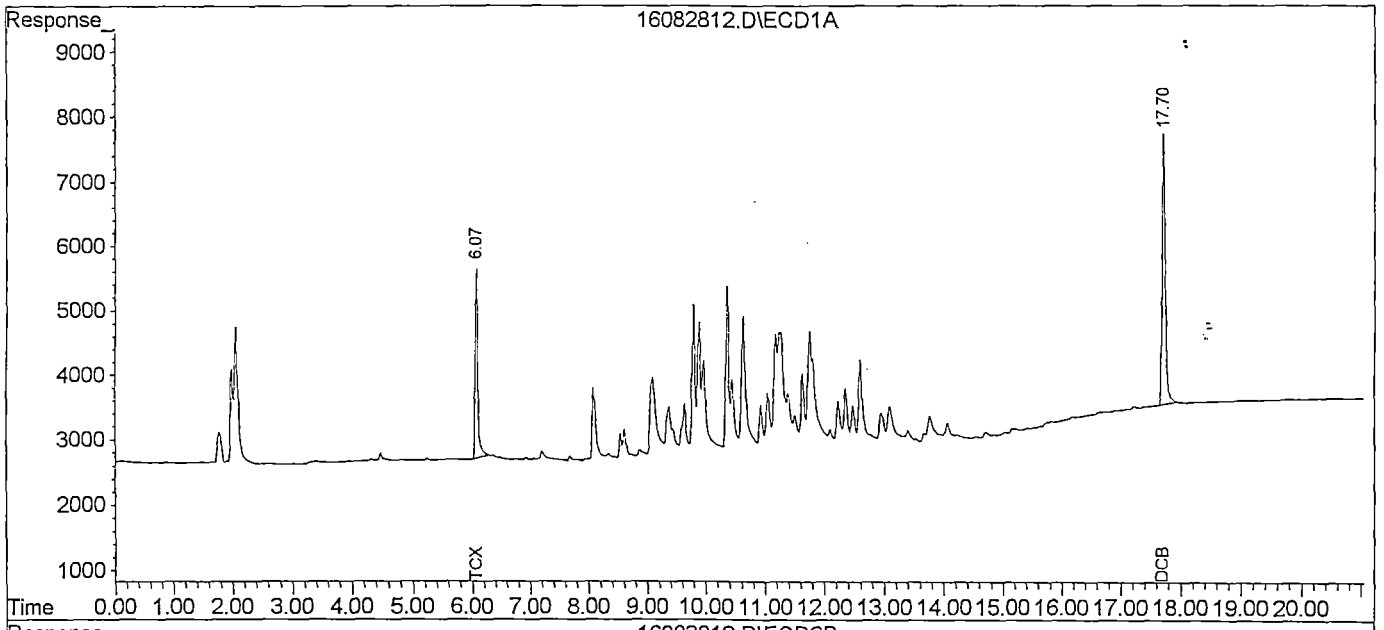
Chromatographic Report

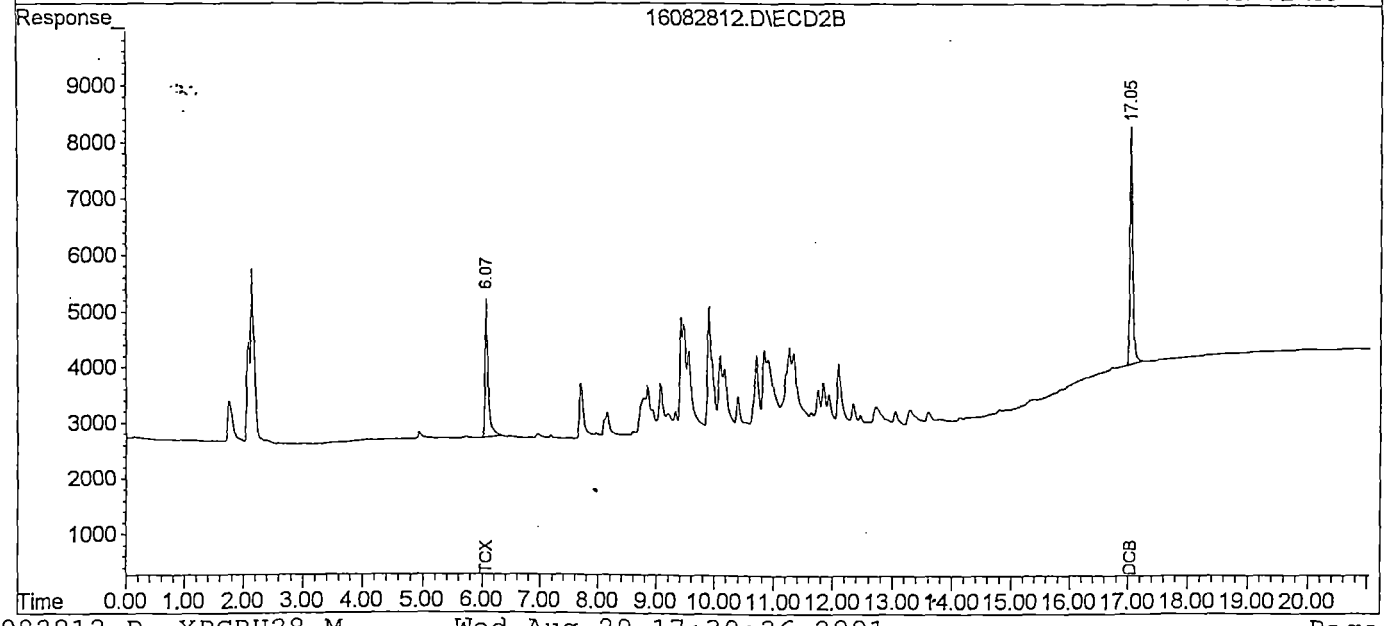
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082812.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082812.D\ECD2B.CH
Acq On : 28 Aug 2001 17:06 Operator: TLM
Sample : AR1248L3CF Inst : HP_16
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 17:32 2001 Quant Results File: XPCBH28.RES
Quant Time: Aug 29 17:33 2001 Quant Results File: xspcbh28.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001

Multi-Component Method : f:\hpchem\hp\16\data\08_28_01\xspcbh28.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 8-30-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082812.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082812.D\ECD2B.CH
Acq On : 28 Aug 2001 17:06 Operator: TLM
Sample : AR1248L3CF Inst : HP_16
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 17:32 2001 Quant Results File: XPCBH28.RES
Multi Time: Aug 29 17:33 2001 Quant Results File: xspcbh28.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001

Multi-Component Method : f:\hpchem\hp\16\data\08_28_01\xspcbh28.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.07	6.08	88751	93362	17.8	16.7
22)	S DCB	17.70	17.05	154788	138738	18.4	17.9
	Target Compounds:						
	Multi-Component Compounds:						
14)	L5 Aroclor-1248	9.79	9.43	75682	62939	400.0	400.0
15)	L5 Aroclor-1248 {2}	9.88	9.48	71308	70656	400.0	400.0
16)	L5 Aroclor-1248 {3}	10.35	9.91	85218	127068	400.0	400.0
17)	L5 Aroclor-1248 {4}	10.62	10.18	120959	63901	400.0	400.0
18)	L5 Aroclor-1248 {5}	11.17	10.84	61527	60861	400.0	400.0
	Sum Aroclor-1248			414694	385425	2000.0	2000.0
	Average Aroclor-1248					400.000	400.000

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

Response Factor Report HP_16

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

ok
8-30-01

Calibration Files
L1 =16082813.D L2 =16082814.D L3 =16082815.D
L4 =16082816.D L5 =16082817.D

	Compound	L1	L2	L3	L4	L5	Avg	%RSD
12)	Aroclor-1254	387.8	314.8	303.2	270.4	217.5	298.7	20.92
13)	Aroclor-1254 {2}	256.8	200.2	200.9	185.2	152.9	199.2	18.90
14)	Aroclor-1254 {3}	539.8	445.4	444.7	404.9	333.6	433.7	17.24
15)	Aroclor-1254 {4}	273.5	231.5	230.3	206.3	165.8	221.5	17.81
16)	Aroclor-1254 {5}	256.5	253.2	259.9	236.2	187.5	238.7	12.58

Average %RSD

Signal #2 Calibration Files
L1 =16082813.D L2 =16082814.D L3 =16082815.D
L4 =16082816.D L5 =16082817.D

	Compound	L1	L2	L3	L4	L5	Avg	%RSD
35)	Aroclor-1254 #2	500.4	400.7	407.4	378.6	320.8	401.6	16.16
36)	Aroclor-1254 {2} #2	219.7	177.7	186.2	171.5	143.0	179.6	15.40
37)	Aroclor-1254 {3} #2	216.0	192.3	226.0	223.8	198.6	211.3	7.16
38)	Aroclor-1254 {4} #2	391.6	330.5	341.2	311.2	256.6	326.2	15.01
39)	Aroclor-1254 {5} #2	434.6	377.8	386.3	366.8	312.2	375.5	11.69

Average %RSD

(#) = Out of Range

XPCBH28.M Wed Aug 29 15:43:27 2001

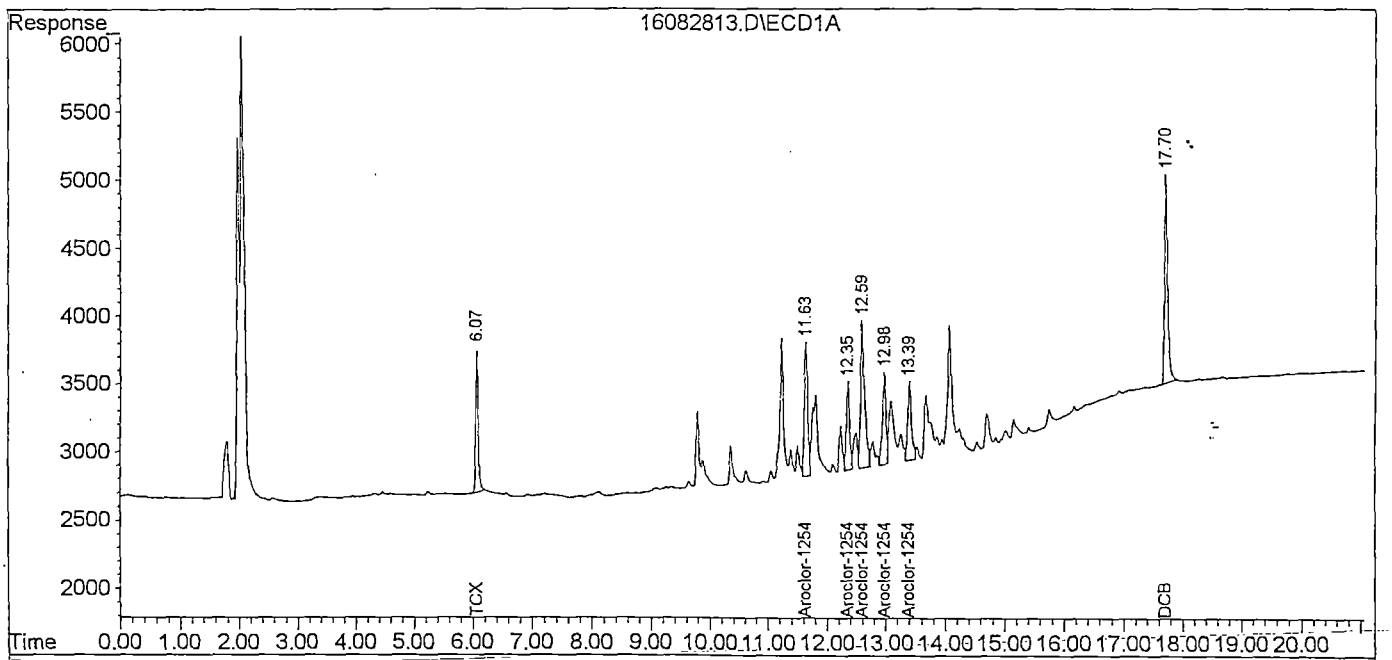
Chromatographic Report

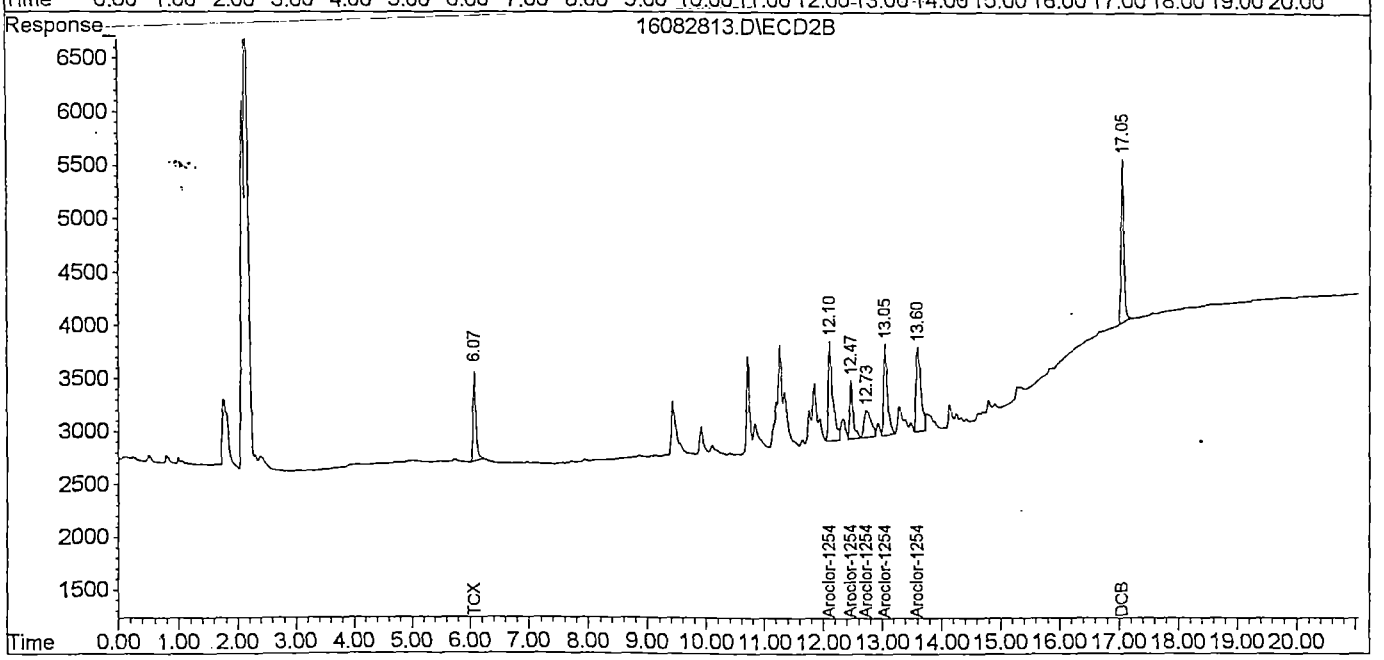
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082813.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082813.D\ECD2B.CH
Acq On : 28 Aug 2001 17:31 Operator: TLM
Sample : AR1254L1CF Inst : HP_16
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:42 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

ok 8-30-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082813.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082813.D\ECD2B.CH
Acq On : 28 Aug 2001 17:31 Operator: TLM
Sample : AR1254L1CF Inst : HP_16
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:42 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.07	6.08	30573	28720	5.206	4.859
22)	S DCB	17.71	17.05	57241	49752	6.034	6.145
	Target Compounds:						
12)	L6 Aroclor-1254	11.64	12.10	38782	50035	129.8	124.6
13)	L6 Aroclor-1254 {2}	12.35	12.47	25682	21969	128.9	122.3
14)	L6 Aroclor-1254 {3}	12.60	12.73f	53981	21595	124.5	102.2
15)	L6 Aroclor-1254 {4}	12.98	13.05	27354	39159	123.5	120.0
16)	L6 Aroclor-1254 {5}	13.40	13.60	25646	43463	107.5	115.7
	Sum Aroclor-1254			171445	176221	614.2	584.9
	Average Aroclor-1254					122.838	116.974

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

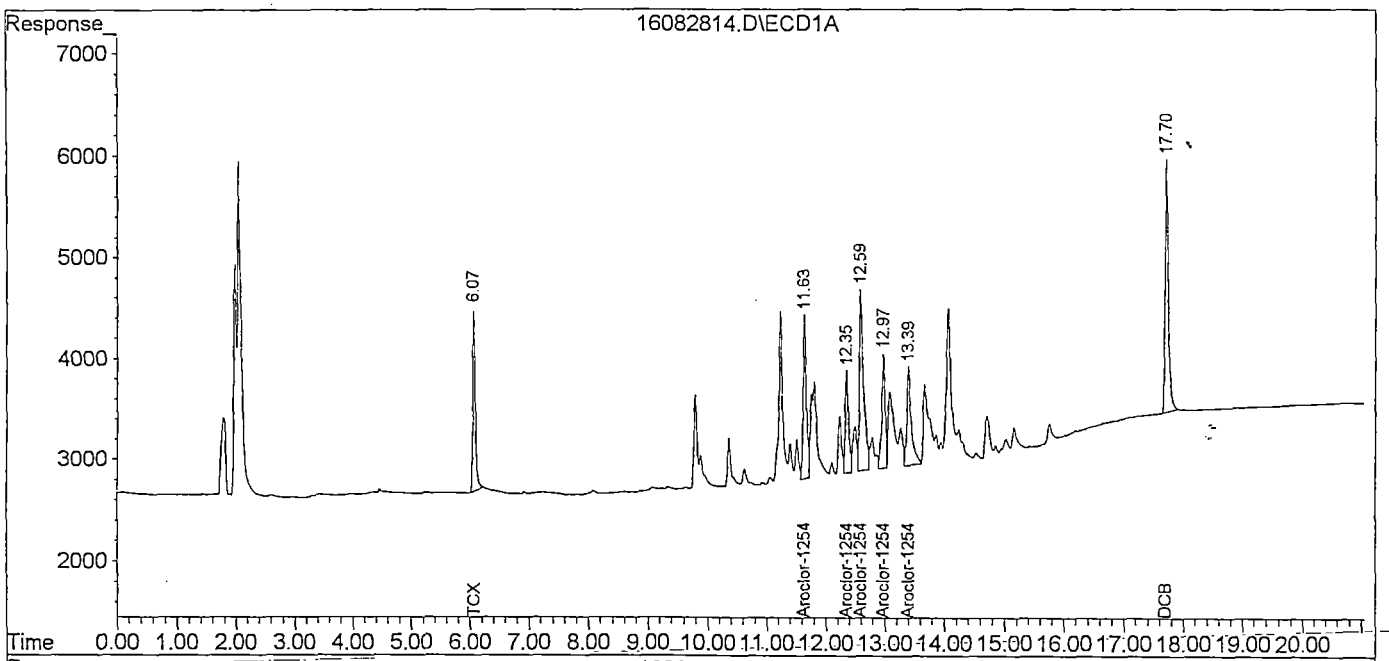
Chromatographic Report

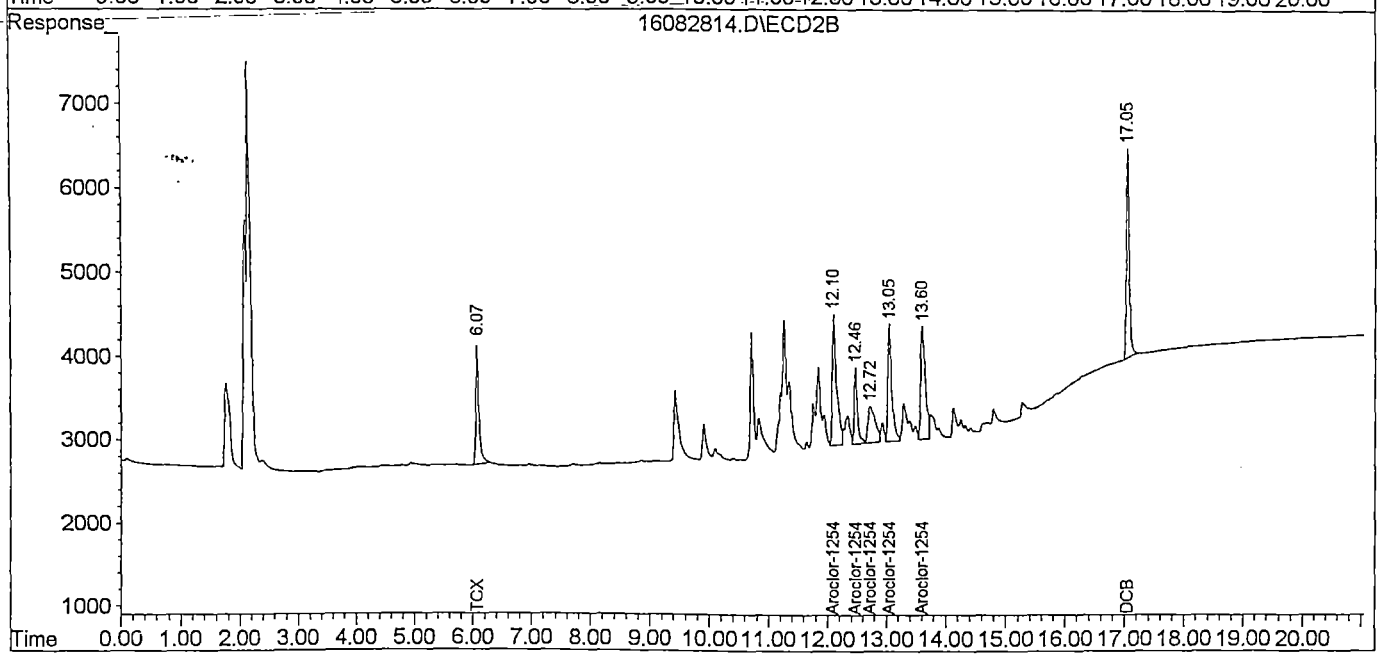
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082814.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082814.D\ECD2B.CH
Acq On : 28 Aug 2001 17:56 Operator: TLM
Sample : AR1254L2CF Inst : HP_16
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:42 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

ok 8-30-01 EH

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082814.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082814.D\ECD2B.CH
Acq On : 28 Aug 2001 17:56 Operator: TLM
Sample : AR1254L2CF Inst : HP_16
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:42 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.07	6.08	52389	52840	9.106	9.058
22)	S DCB	17.70	17.05	92339	81529	9.845	10.0
	Target Compounds:						
12)	L6 Aroclor-1254	11.63	12.10	62963	80141	210.8	199.6
13)	L6 Aroclor-1254 {2}	12.35	12.47	40038	35548	201.0	197.9
14)	L6 Aroclor-1254 {3}	12.59	12.72	89071	38457	205.4	182.0
15)	L6 Aroclor-1254 {4}	12.98	13.05	46302	66108	209.1	202.7
16)	L6 Aroclor-1254 {5}	13.40	13.60	50644	75561	212.2	201.2
	Sum Aroclor-1254			289018	295815	1038.4	983.3
	Average Aroclor-1254					207.683	196.663

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

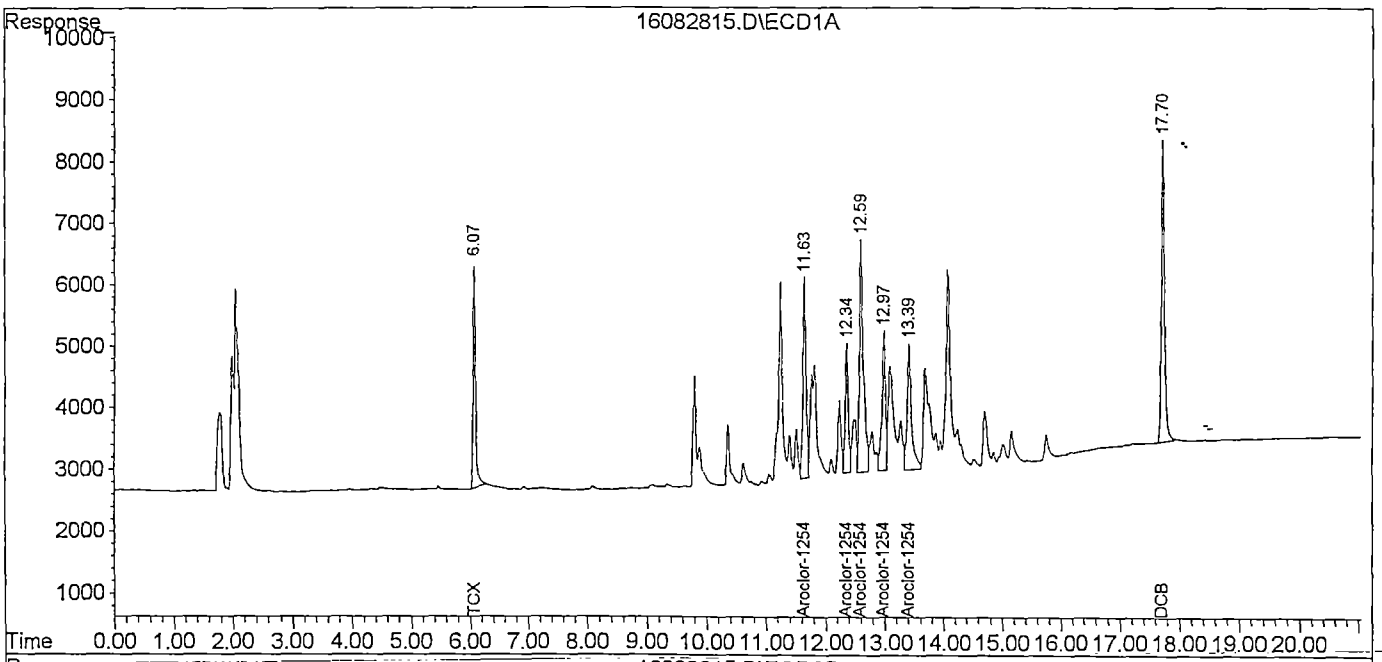
Chromatographic Report

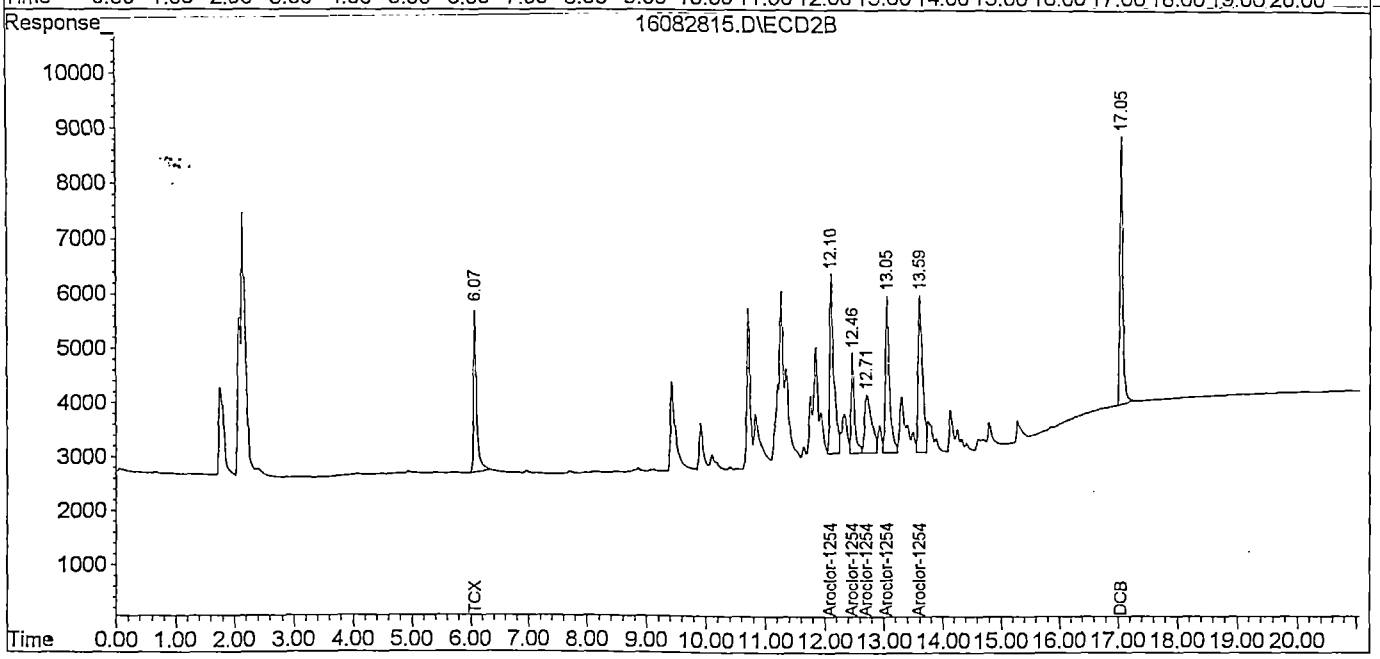
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082815.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082815.D\ECD2B.CH
Acq On : 28 Aug 2001 18:20 Operator: TLM
Sample : AR1254L3CF Inst : HP_16
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:42 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_20_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

ok
8-30-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082815.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082815.D\ECD2B.CH
Acq On : 28 Aug 2001 18:20 Operator: TLM
Sample : AR1254L3CF Inst : HP_16
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:42 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_20_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.07	6.08	109082	112239	18.6	18.8
22)	S DCB	17.70	17.05	179745	162054	18.6	19.1
	Target Compounds:						
12)	L6 Aroclor-1254	11.63	12.10	121267	162965	405.9	405.8
13)	L6 Aroclor-1254 {2}	12.35	12.46	80341	74487	403.3	414.7
14)	L6 Aroclor-1254 {3}	12.59	12.71	177900	90386	410.2	427.7
15)	L6 Aroclor-1254 {4}	12.98	13.05	92107	136483	415.9	418.4
16)	L6 Aroclor-1254 {5}	13.39	13.60	103951	154511	435.6	411.4
	Sum Aroclor-1254			575565	618831	2070.9	2078.0
	Average Aroclor-1254					414.184	415.610

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

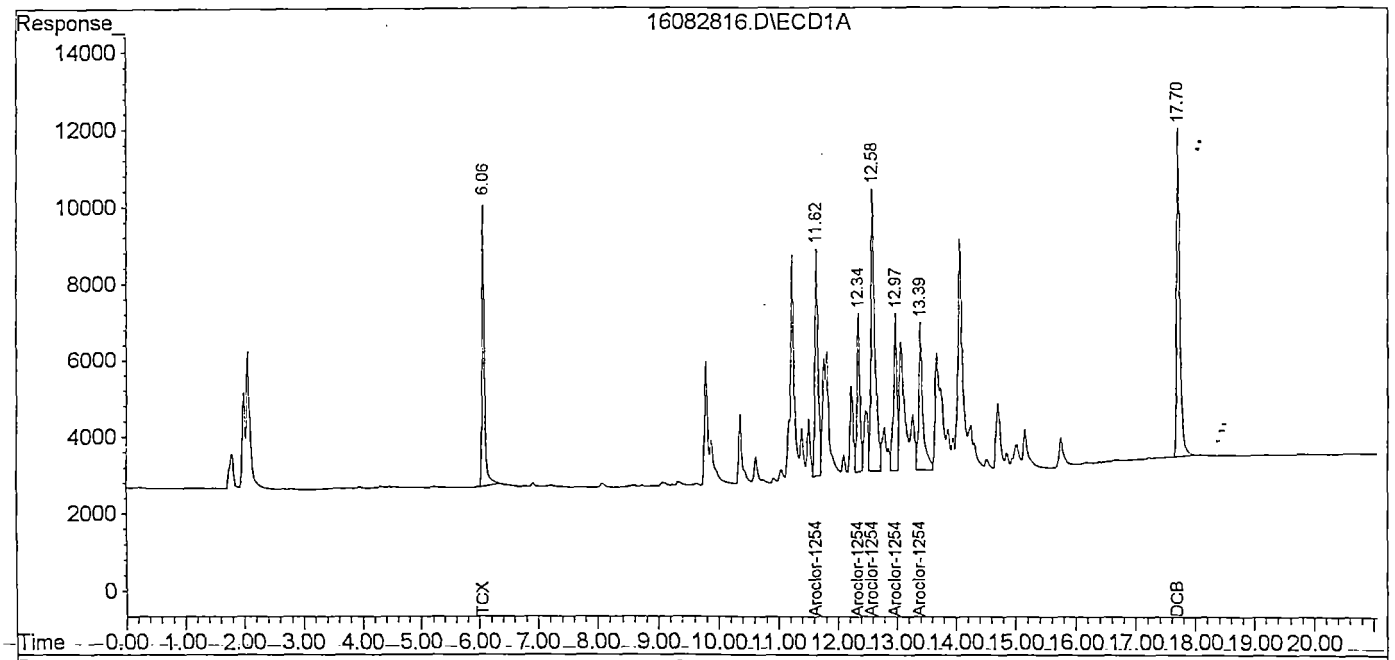
Chromatographic Report

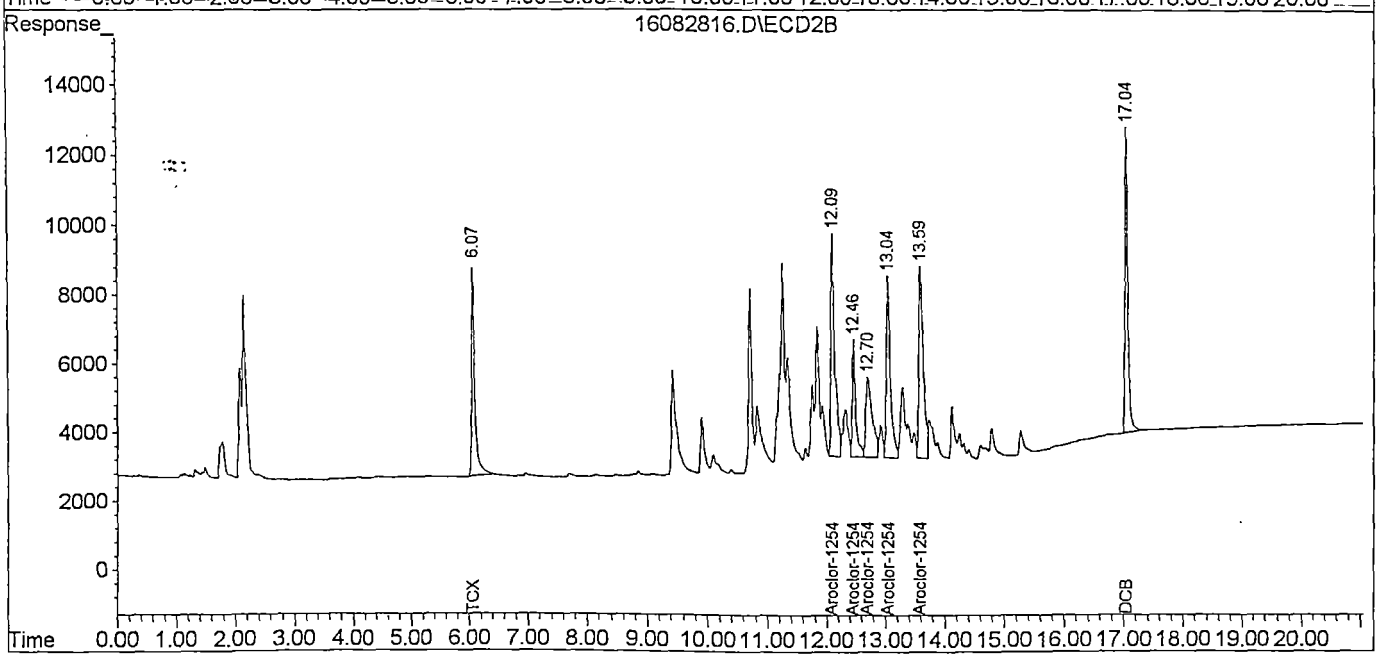
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082816.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082816.D\ECD2B.CH
Acq On : 28 Aug 2001 18:45 Operator: TLM
Sample : AR1254L4CF Inst : HP_16
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:42 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

ok
8-30-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082816.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082816.D\ECD2B.CH
Acq On : 28 Aug 2001 18:45 Operator: TLM
Sample : AR1254L4CF Inst : HP_16
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:42 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.06	6.07	211986	219866	38.2	38.8
22)	S DCB	17.70	17.05	325370	296308	35.6	36.6
	Target Compounds:						
12)	L6 Aroclor-1254	11.63	12.09	216359	302910	724.2	754.3
13)	L6 Aroclor-1254 {2}	12.34	12.46	148139	137207	743.7	763.9
14)	L6 Aroclor-1254 {3}	12.58	12.70	323918	179016	746.9	847.2
15)	L6 Aroclor-1254 {4}	12.97	13.05	165053	248927	745.2	763.1
16)	L6 Aroclor-1254 {5}	13.39	13.59	188971	293412	791.8	781.3
	Sum Aroclor-1254			1042440	1161472	3751.9	3909.7
	Average Aroclor-1254					750.380	781.941

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

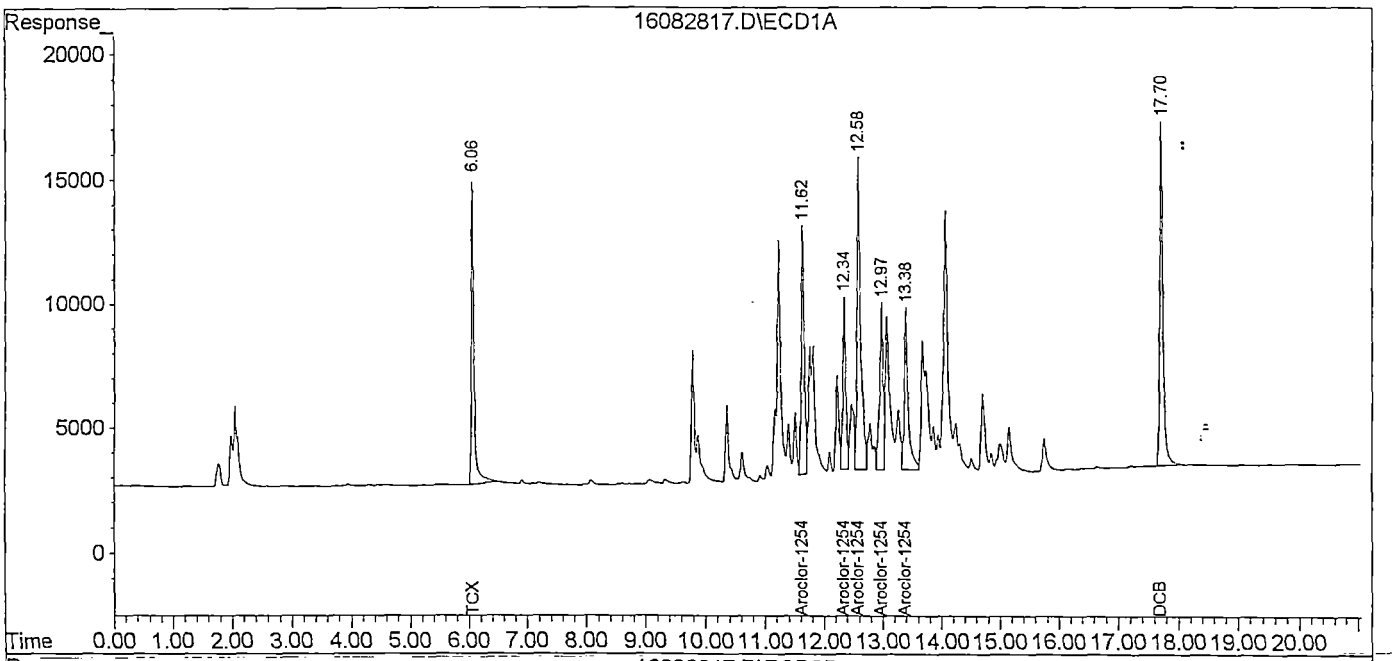
Chromatographic Report

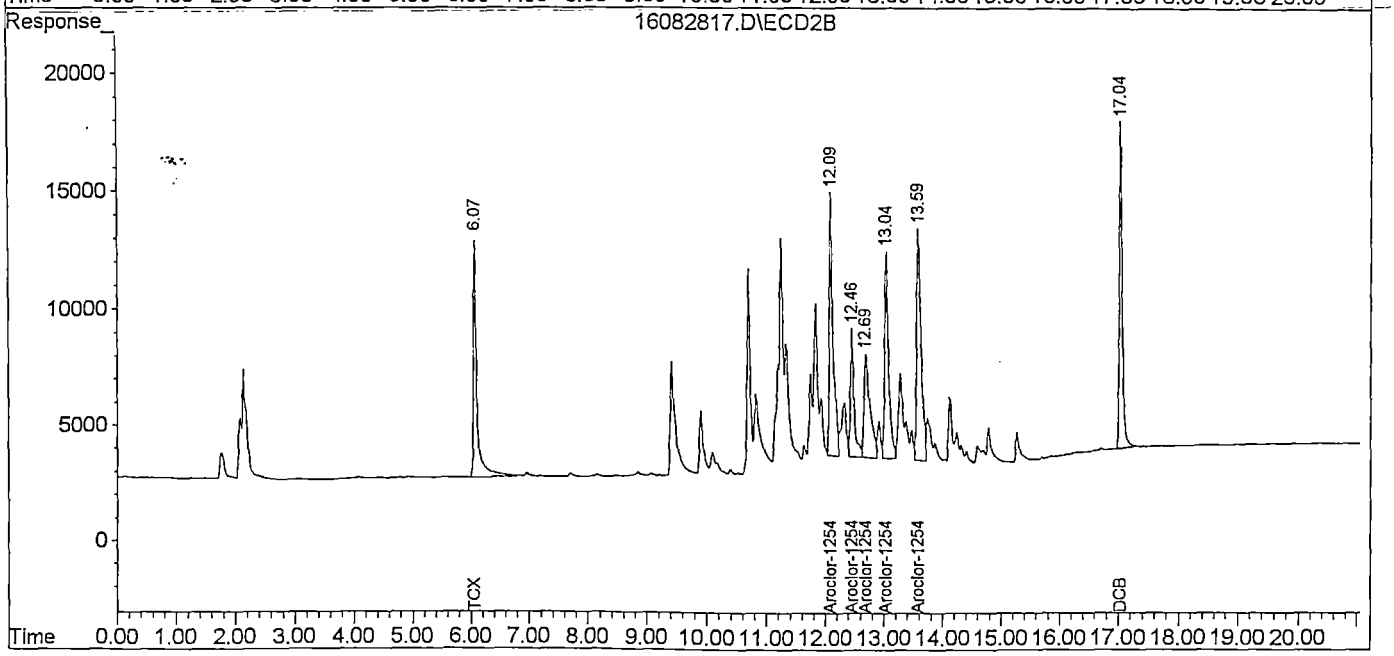
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082817.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082817.D\ECD2B.CH
Acq On : 28 Aug 2001 19:09 Operator: TLM
Sample : AR1254L5CF Inst : HP_16
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:43 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

oh 8-30-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082817.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082817.D\ECD2B.CH
Acq On : 28 Aug 2001 19:09 Operator: TLM
Sample : AR1254L5CF Inst : HP_16
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:43 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.06	6.07	388916	433298	69.9	76.7
22)	S DCB	17.70	17.04	521465	477960	57.2	58.8
	Target Compounds:						
12)	L6 Aroclor-1254	11.62	12.09	347945	513298	1164.7	1278.2 E
13)	L6 Aroclor-1254 {2}	12.34	12.46	244615	228754	1228.1	1273.5
14)	L6 Aroclor-1254 {3}	12.58	12.69	533816	317740	1230.9 E	1503.7 E
15)	L6 Aroclor-1254 {4}	12.97	13.04	265239	410538	1197.6	1258.5 E
16)	L6 Aroclor-1254 {5}	13.38	13.59	299969	499481	1256.9 E	1330.1 E
	Sum Aroclor-1254			1691583	1969812	6078.2	6643.9
	Average Aroclor-1254					1215.631	1328.780

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

Response Factor Report HP_16

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

ok 8-30-01

Calibration Files
L1 =16082818.D L2 =16082819.D L3 =16082820.D
L4 =16082821.D L5 =16082822.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
1) TCX	4.3	5.3	5.0	5.5	4.9	5.0 E3	9.45
2) Aroclor-1016	122.1	141.1	126.0	128.3	106.8	124.9	9.89
3) Aroclor-1016 {2}	314.7	350.5	306.5	299.0	244.4	303.0	12.63
4) Aroclor-1016 {3}	54.0	68.7	63.3	67.1	57.1	62.0	10.20
5) Aroclor-1016 {4}	121.2	149.7	135.9	135.3	112.8	131.0	10.95
6) Aroclor-1016 {5}	146.1	166.8	147.0	146.5	120.0	145.3	11.45
17) Aroclor-1260	482.0	577.0	519.7	548.3	466.1	518.6	8.83
18) Aroclor-1260 {2}	295.3	347.4	302.7	301.5	243.7	298.1	12.35
19) Aroclor-1260 {3}	206.1	251.2	220.2	213.4	167.2	211.6	14.26
20) Aroclor-1260 {4}	276.0	332.8	295.9	306.9	256.6	293.6	9.92
21) Aroclor-1260 {5}	554.1	682.0	608.5	632.3	532.7	601.9	9.99
22) DCB	8.1	9.7	8.5	8.6	7.0	8.4 E3	11.68
Average %RSD							

Signal #2 Calibration Files
L1 =16082818.D L2 =16082819.D L3 =16082820.D
L4 =16082821.D L5 =16082822.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
24) TCX #2	4.3	6.0	5.7	6.2	5.7	5.6 E3	13.08
25) Aroclor-1016 #2	107.2	134.7	122.9	132.1	113.3	122.0	9.67
26) Aroclor-1016 {2} #2	327.5	388.5	343.0	336.6	274.2	334.0	12.23
27) Aroclor-1016 {3} #2	198.6	242.8	217.2	224.3	189.4	214.5	9.86
28) Aroclor-1016 {4} #2	151.7	174.8	152.9	151.2	123.1	150.7	12.18
29) Aroclor-1016 {5} #2	102.1	121.2	109.3	111.0	90.9	106.9	10.53
40) Aroclor-1260 #2	483.3	592.9	536.8	579.9	493.9	537.3	9.17
41) Aroclor-1260 {2} #2	276.2	335.3	295.3	298.2	248.8	290.8	10.92
42) Aroclor-1260 {3} #2	177.0	224.8	201.9	210.1	173.5	197.4	11.11
43) Aroclor-1260 {4} #2	231.4	290.6	259.3	276.1	234.3	258.3	9.99
44) Aroclor-1260 {5} #2	556.1	717.9	645.2	684.2	578.4	636.4	10.78
45) DCB #2	7.2	8.9	7.9	8.1	6.7	7.7 E3	10.76
Average %RSD							

(#) = Out of Range

XPCBH28.M Wed Aug 29 15:47:38 2001

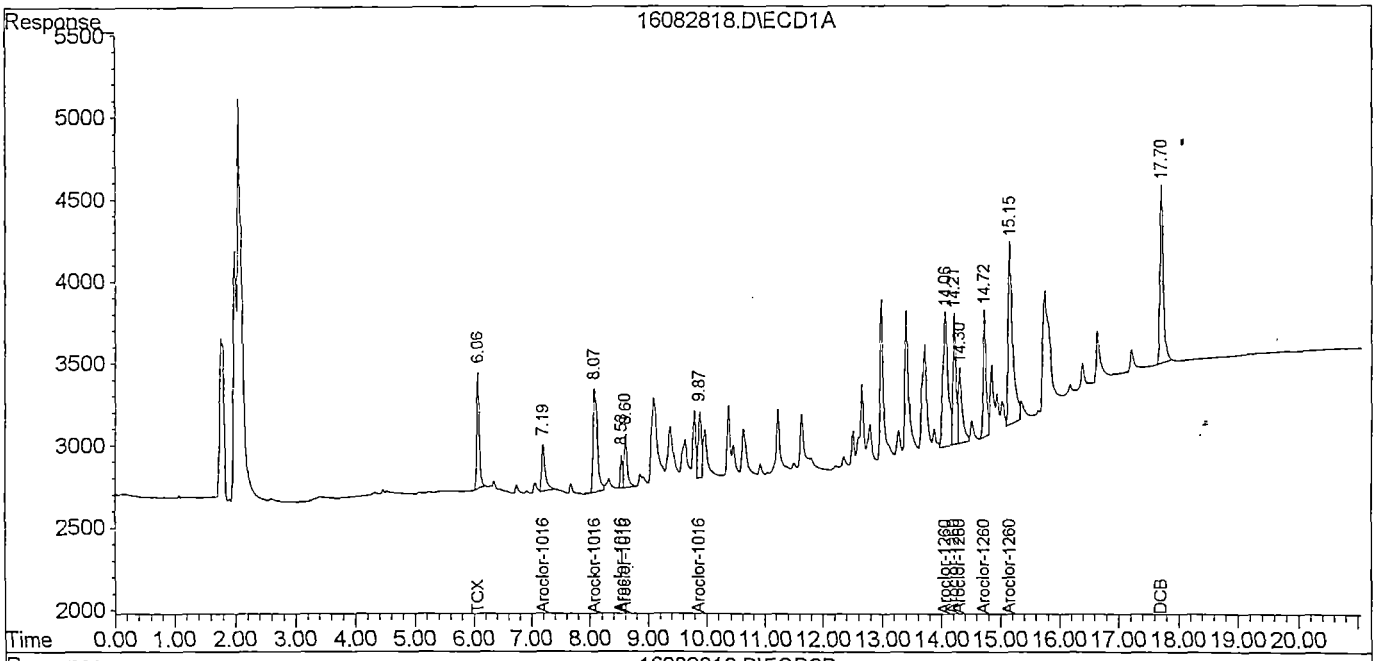
Chromatographic Report

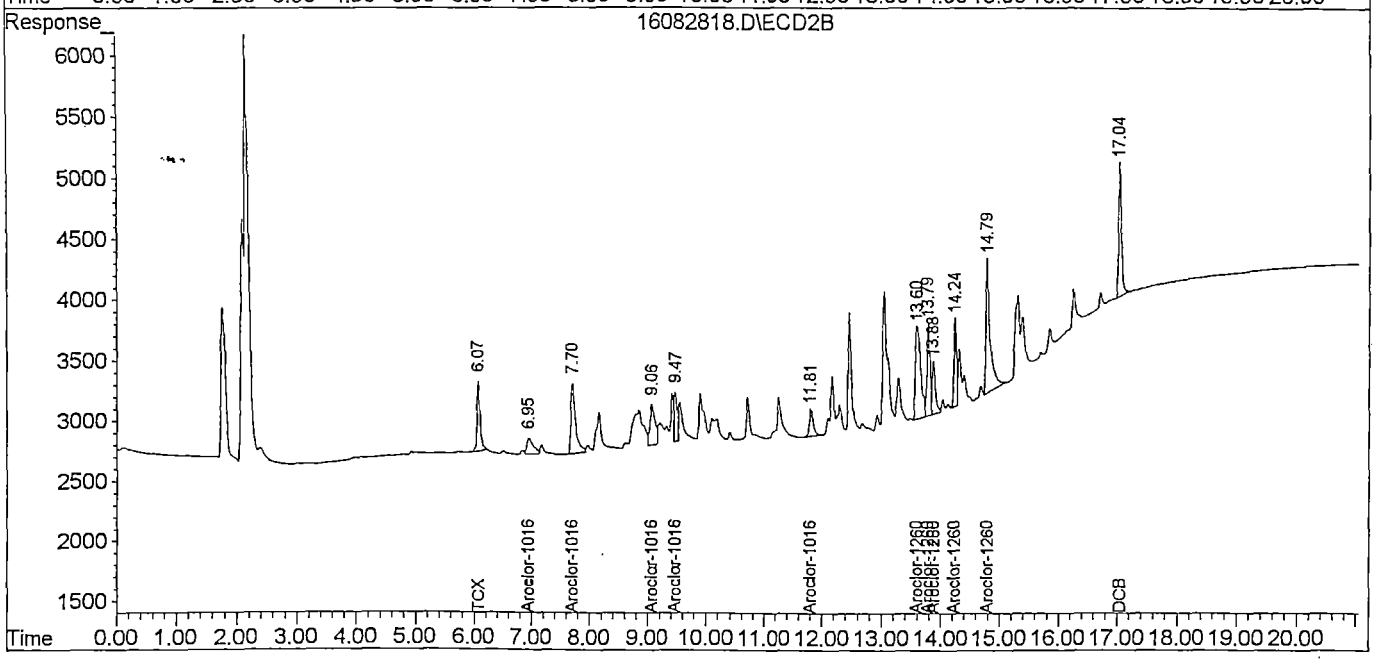
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082818.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082818.D\ECD2B.CH
Acq On : 28 Aug 2001 19:34 Operator: TLM
Sample : AR1660L1CF Inst : HP_16
Misc : 5-130-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:46 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 8-30-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082818.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082818.D\ECD2B.CH
Acq On : 28 Aug 2001 19:34 Operator: TLM
Sample : AR1660L1CF Inst : HP_16
Misc : 5-130-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:46 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.07	6.07	21471	21733	3.981	3.944
22)	S DCB	17.70	17.05	40319	36061	4.548	4.555
	Target Compounds:						
2)	L1 Aroclor-1016	7.19	6.96	12205	10724	97.8	87.9
3)	L1 Aroclor-1016 {2}	8.08	7.71	31473	32749	103.9	98.1
4)	L1 Aroclor-1016 {3}	8.53	9.07	5399	19856	87.1	92.6
5)	L1 Aroclor-1016 {4}	8.60	9.48	12115	15170	92.5	100.6
6)	L1 Aroclor-1016 {5}	9.88	11.81	14608	10206	100.6	95.4
	Sum Aroclor-1016			75800	88705	481.7	474.5
	Average Aroclor-1016					96.348	94.909
17)	L7 Aroclor-1260	14.06	13.60	48202	48325	92.9	90.1
18)	L7 Aroclor-1260 {2}	14.21	13.79	29534	27620	99.1	95.1
19)	L7 Aroclor-1260 {3}	14.31	13.88	20614	17697	97.4	89.9
20)	L7 Aroclor-1260 {4}	14.72	14.25	27598	23141	94.0	89.7
21)	L7 Aroclor-1260 {5}	15.15	14.79	55405	55614	92.0	87.4
	Sum Aroclor-1260			181353	172397	475.4	452.2
	Average Aroclor-1260					95.088	90.441

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

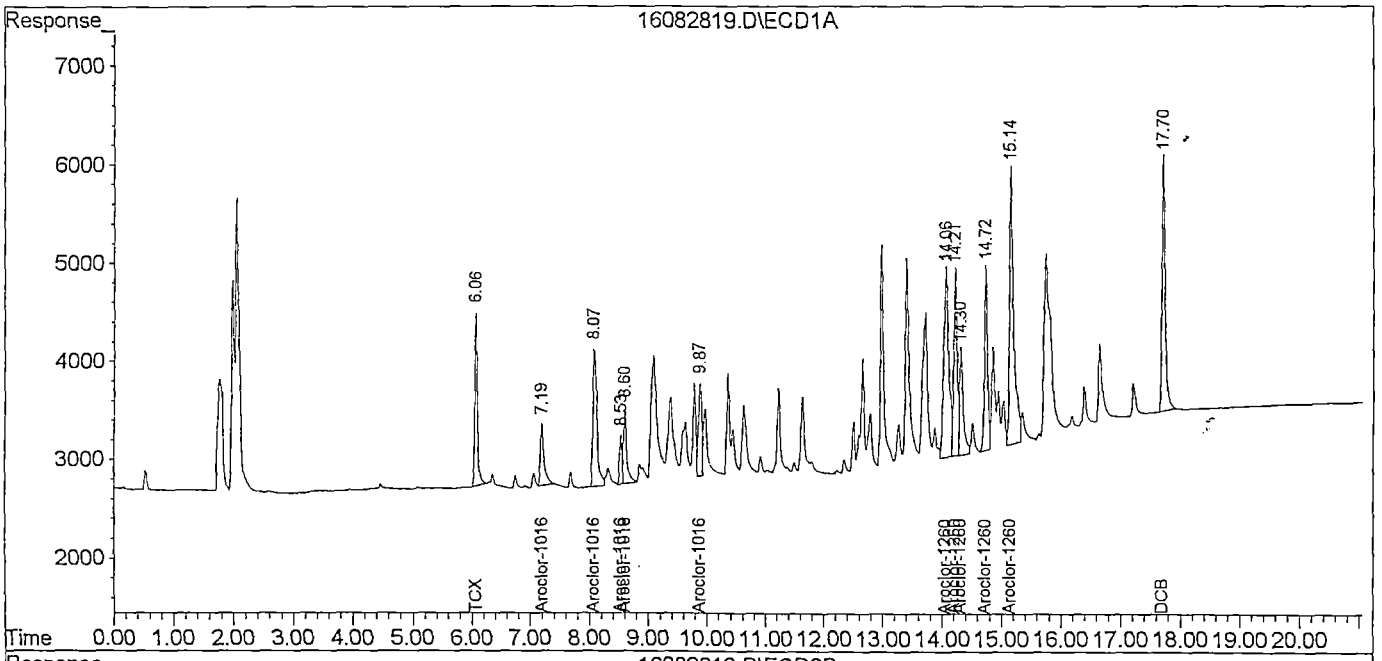
Chromatographic Report

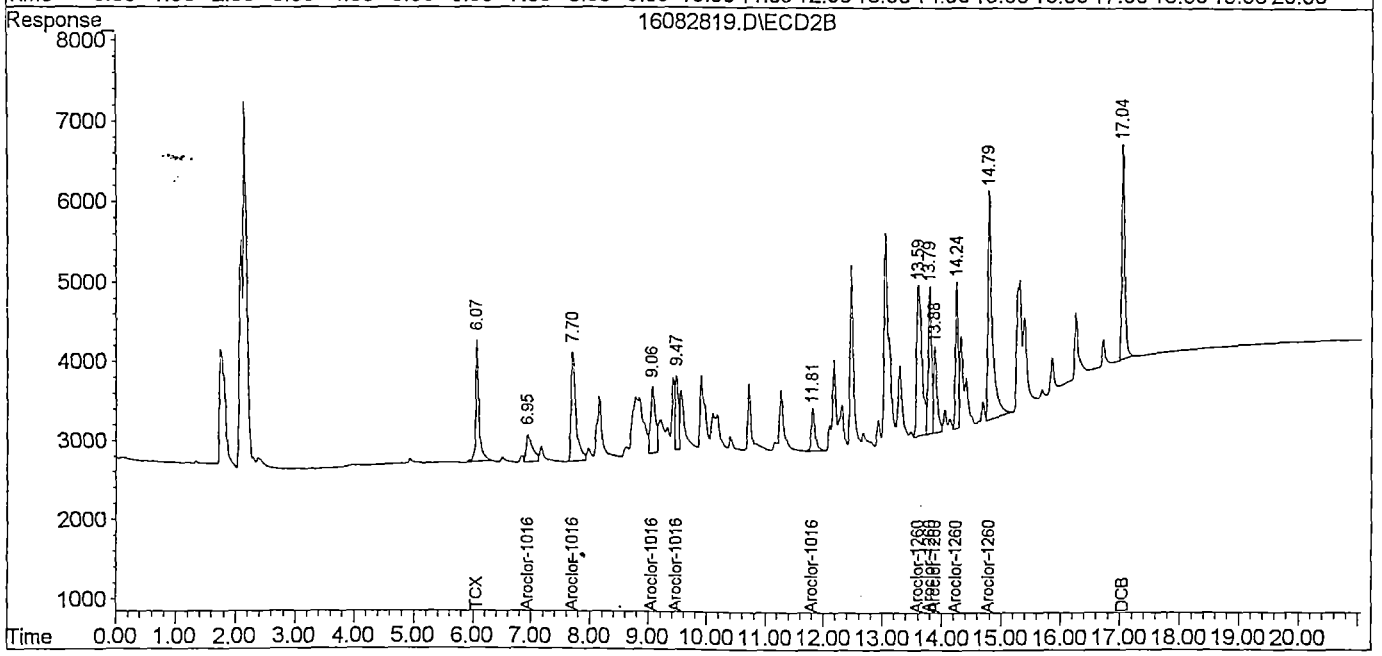
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082819.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082819.D\ECD2B.CH
Acq On : 28 Aug 2001 19:58 Operator: TLM
Sample : AR1660L2CF Inst : HP_16
Misc : 5-129-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:46 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

ok 8-30-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082819.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082819.D\ECD2B.CH
Acq On : 28 Aug 2001 19:58 Operator: TLM
Sample : AR1660L2CF Inst : HP_16
Misc : 5-129-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:46 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds:						
1) S TCX	6.06	6.07	53082	60103	10.6	11.5
22) S DCB	17.70	17.05	97440	88853	11.9	12.1
Target Compounds:						
2) L1 Aroclor-1016	7.19	6.95	28213	26932	226.0	220.7
3) L1 Aroclor-1016 {2}	8.07	7.70	70107	77708	231.4	232.7
4) L1 Aroclor-1016 {3}	8.53	9.06	13732	48567	221.4	226.5
5) L1 Aroclor-1016 {4}	8.60	9.47	29946	34962	228.7	231.9
6) L1 Aroclor-1016 {5}	9.88	11.81	33364	24249	229.7	226.6
Sum Aroclor-1016			175362	212418	1137.1	1138.4
Average Aroclor-1016					227.414	227.680
17) L7 Aroclor-1260	14.06	13.60	115401	118580	222.5	221.1
18) L7 Aroclor-1260 {2}	14.21	13.79	69473	67068	233.0	231.0
19) L7 Aroclor-1260 {3}	14.31	13.88	50242	44969	237.4	228.4
20) L7 Aroclor-1260 {4}	14.72	14.24	66563	58126	226.7	225.2
21) L7 Aroclor-1260 {5}	15.14	14.79	136405	143586	226.6	225.7
Sum Aroclor-1260			438084	432330	1146.2	1131.4
Average Aroclor-1260					229.247	226.285

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

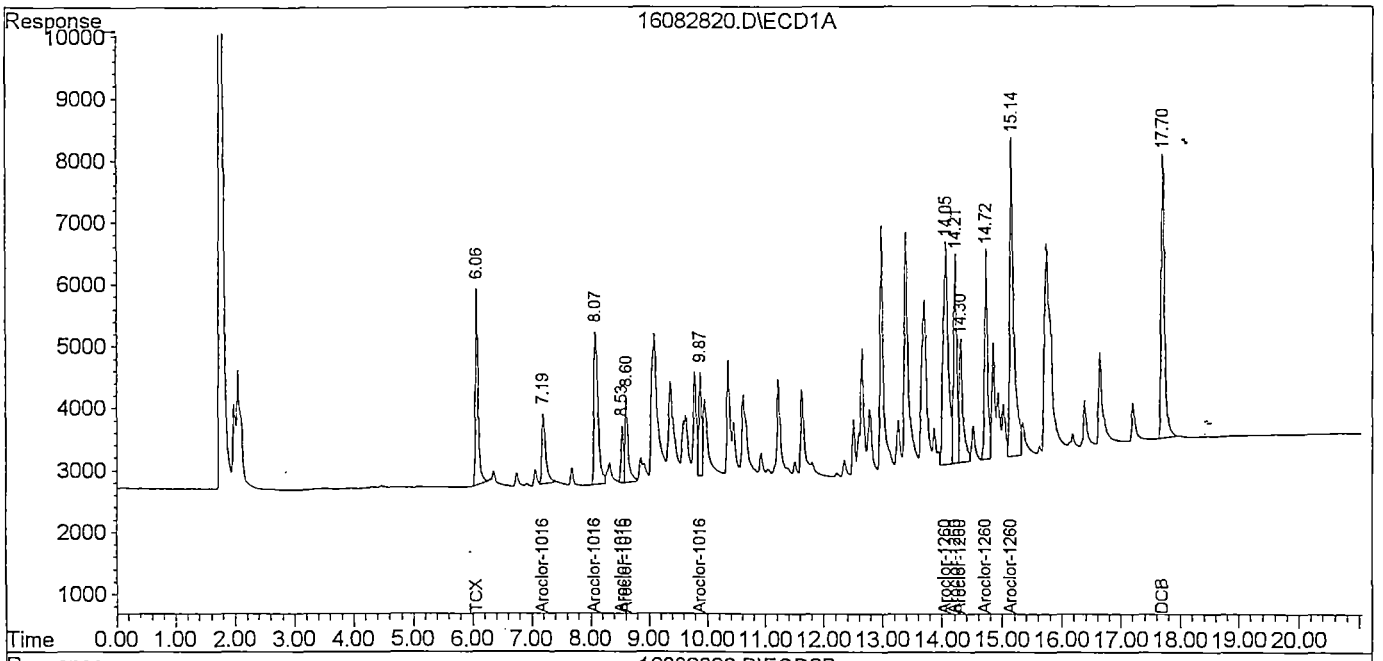
Chromatographic Report

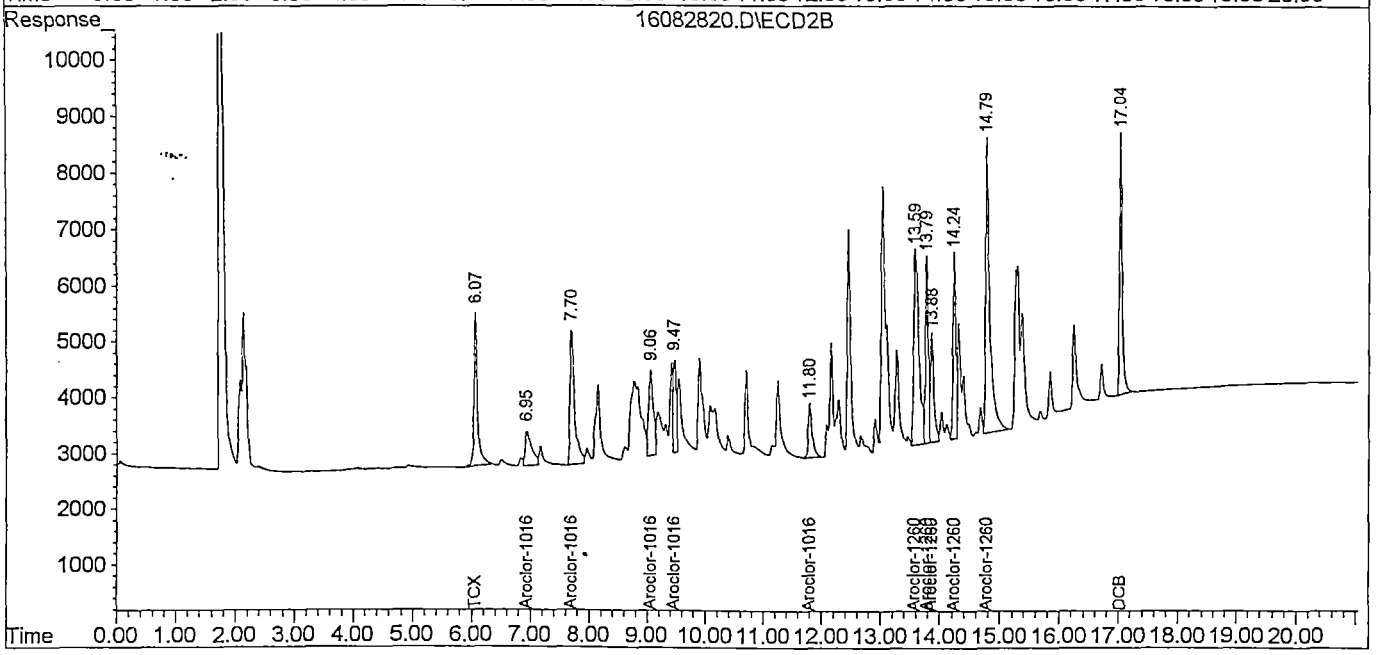
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082820.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082820.D\ECD2B.CH
Acq On : 28 Aug 2001 20:23 Operator: TLM
Sample : AR1660L3CD Inst : HP_16
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:46 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_20_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

ok 8-30-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082820.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082820.D\ECD2B.CH
Acq On : 28 Aug 2001 20:23 Operator: TLM
Sample : AR1660L3CD Inst : HP_16
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:46 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_20_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.06	6.07	99833	114386	19.8	21.3
22)	S DCB	17.70	17.05	170499	157591	20.6	21.0
	Target Compounds:						
2)	L1 Aroclor-1016	7.19	6.95	50418	49163	403.8	402.8
3)	L1 Aroclor-1016 {2}	8.07	7.70	122599	137214	404.6	410.8
4)	L1 Aroclor-1016 {3}	8.53	9.06	25312	86875	408.1	405.1
5)	L1 Aroclor-1016 {4}	8.60	9.47	54353	61149	415.1	405.7
6)	L1 Aroclor-1016 {5}	9.87	11.81	58803	43716	404.8	408.6
	Sum Aroclor-1016			311484	378117	2036.3	2033.0
	Average Aroclor-1016					407.267	406.606
17)	L7 Aroclor-1260	14.06	13.59	207871	214707	400.8	400.3
18)	L7 Aroclor-1260 {2}	14.21	13.79	121095	118124	406.2	406.8
19)	L7 Aroclor-1260 {3}	14.30	13.88	88076	80752	416.2	410.1
20)	L7 Aroclor-1260 {4}	14.72	14.24	118358	103714	403.1	401.9
21)	L7 Aroclor-1260 {5}	15.14	14.79	243402	258088	404.4	405.7
	Sum Aroclor-1260			778802	775384	2030.6	2024.9
	Average Aroclor-1260					406.119	404.974

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

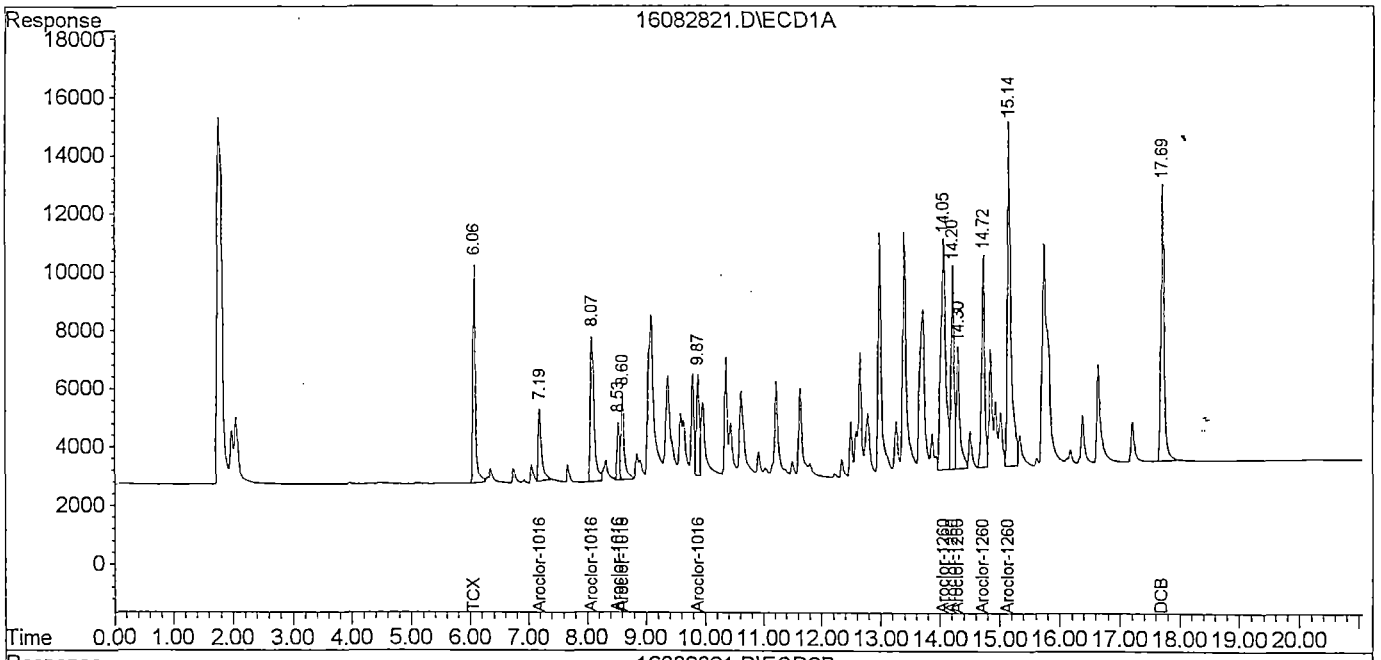
Chromatographic Report

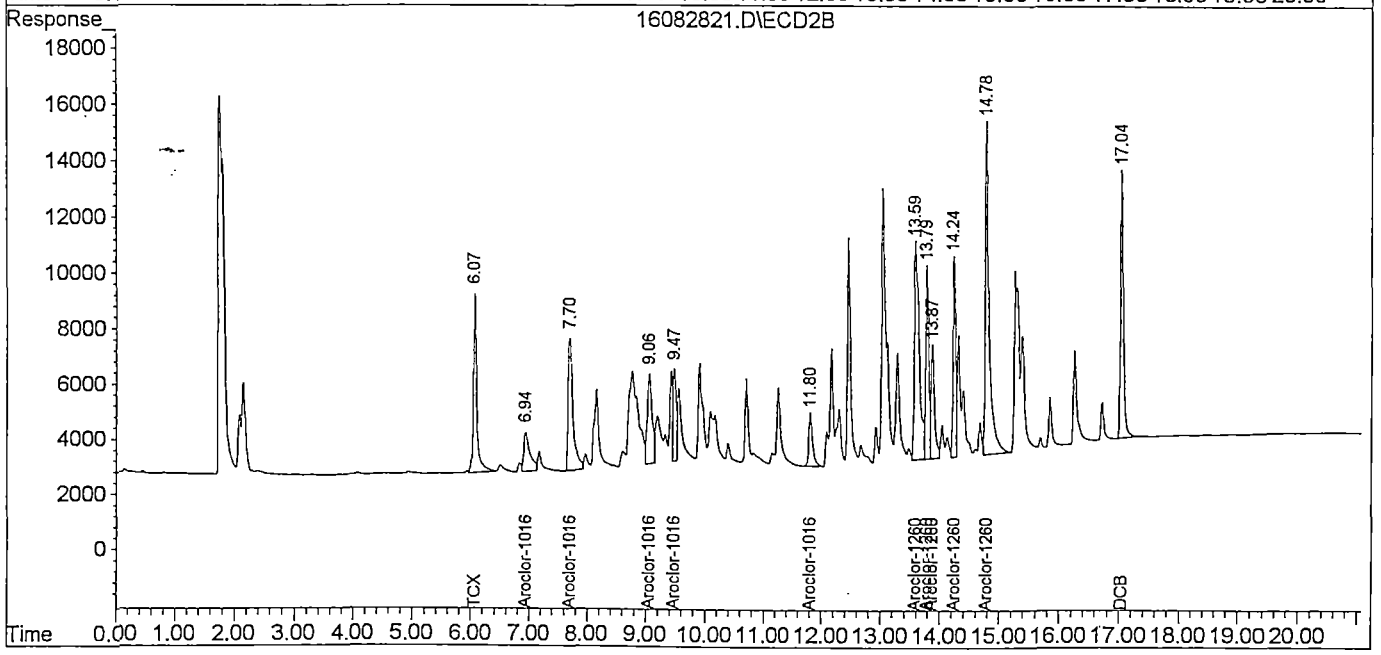
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082821.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082821.D\ECD2B.CH
Acq On : 28 Aug 2001 20:48 Operator: TLM
Sample : AR1660L4CF Inst : HP_16
Misc : 5-172-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:47 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 8-30-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082821.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082821.D\ECD2B.CH
Acq On : 28 Aug 2001 20:48 Operator: TLM
Sample : AR1660L4CF Inst : HP_16
Misc : 5-172-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:47 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.06	6.07	221094	248742	44.7	46.1
22)	S DCB	17.70	17.04	345236	322008	42.1	43.1
	Target Compounds:						
2)	L1 Aroclor-1016	7.19	6.94	102644	105709	822.1	866.1
3)	L1 Aroclor-1016 {2}	8.07	7.70	239192	269278	789.3	806.3
4)	L1 Aroclor-1016 {3}	8.53	9.06	53669	179428	865.3	836.7
5)	L1 Aroclor-1016 {4}	8.60	9.47	108201	120928	826.2	802.3
6)	L1 Aroclor-1016 {5}	9.87	11.81	117161	88811	806.5	830.1
	Sum Aroclor-1016			620868	764154	4109.5	4141.4
	Average Aroclor-1016					821.906	828.282
17)	L7 Aroclor-1260	14.05	13.59	438655	463907	845.8	864.9
18)	L7 Aroclor-1260 {2}	14.21	13.79	241199	238524	809.0	821.5
19)	L7 Aroclor-1260 {3}	14.30	13.88	170757	168043	806.8	853.5
20)	L7 Aroclor-1260 {4}	14.72	14.24	245512	220879	836.1	855.9
21)	L7 Aroclor-1260 {5}	15.14	14.79	505856	547377	840.4	860.5
	Sum Aroclor-1260			1601979	1638730	4138.2	4256.3
	Average Aroclor-1260					827.634	851.257

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

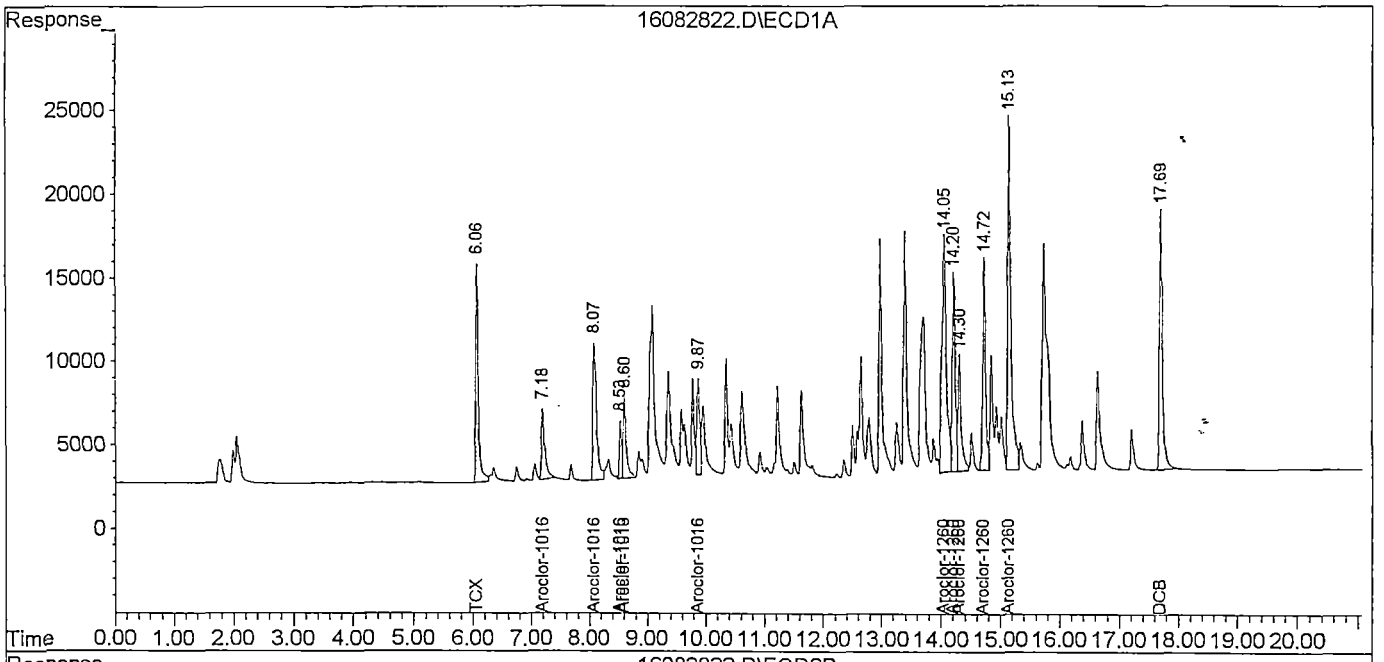
Chromatographic Report

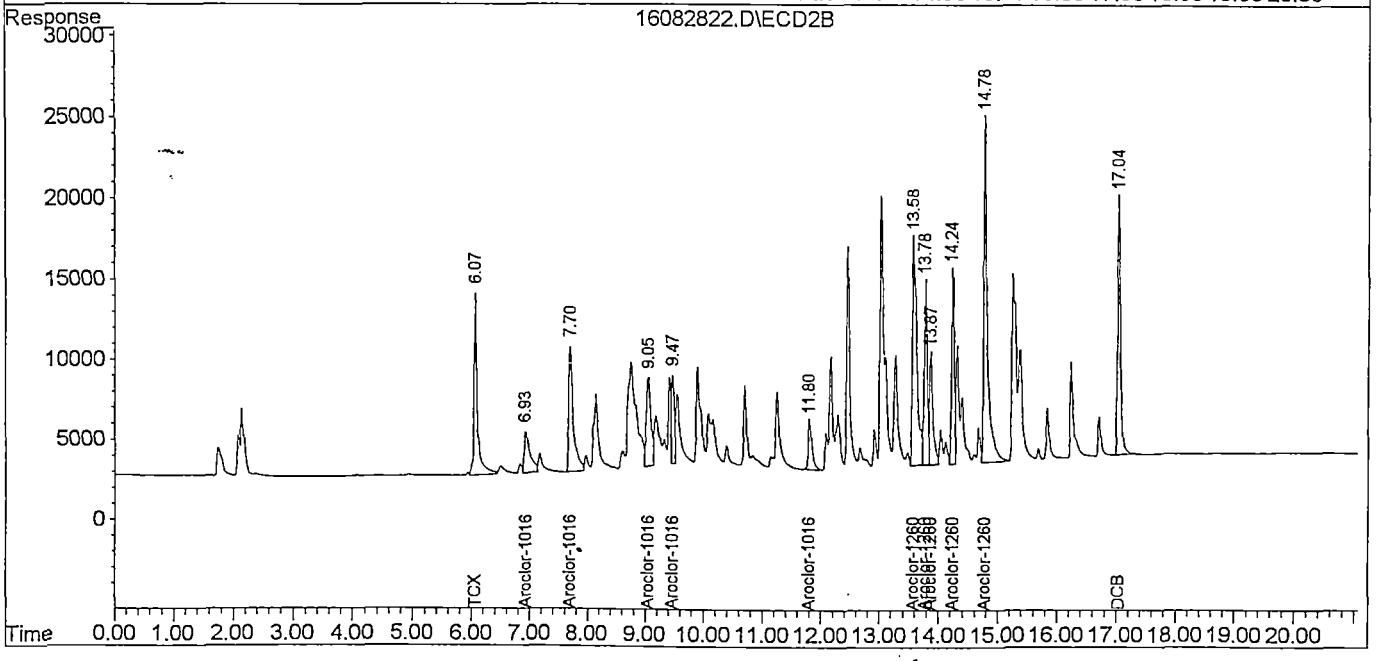
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082822.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082822.D\ECD2B.CH
Acq On : 28 Aug 2001 21:12 Operator: TLM
Sample : AR1660L5CF Inst : HP_16
Misc : 5-126-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:47 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 8-30-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082822.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082822.D\ECD2B.CH
Acq On : 28 Aug 2001 21:12 Operator: TLM
Sample : AR1660L5CF Inst : HP_16
Misc : 5-126-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:47 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.06	6.07	388522	455725	77.8	82.2 E
22)	S DCB	17.70	17.04	562825	536257	67.8 E	70.6 E
	Target Compounds:						
2)	L1 Aroclor-1016	7.19	6.94	170878	181286	1368.6	1485.4 E
3)	L1 Aroclor-1016 {2}	8.07	7.70	390995	438762	1290.3	1313.8 E
4)	L1 Aroclor-1016 {3}	8.53	9.05	91339	303035	1472.7 E	1413.1 E
5)	L1 Aroclor-1016 {4}	8.60	9.47	180419	197002	1377.7	1307.0
6)	L1 Aroclor-1016 {5}	9.87	11.81	192037	145480	1321.9 E	1359.7
	Sum Aroclor-1016			1025668	1265566	6831.3	6878.9
	Average Aroclor-1016					1366.251	1375.771
17)	L7 Aroclor-1260	14.05	13.58	745724	790167	1437.9 E	1473.1 E
18)	L7 Aroclor-1260 {2}	14.20	13.79	389943	398075	1308.0 E	1371.0 E
19)	L7 Aroclor-1260 {3}	14.30	13.88	267562	277566	1264.2	1409.7 E
20)	L7 Aroclor-1260 {4}	14.72	14.24	410619	374885	1398.4	1452.7 E
21)	L7 Aroclor-1260 {5}	15.14	14.78	852274	925513	1415.9 E	1455.0 E
	Sum Aroclor-1260			2666122	2766206	6824.4	7161.5
	Average Aroclor-1260					1364.875	1432.308

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

Continuing Calibration Report HP_16

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Wed Aug 29 15:55:22 2001
Response via : Initial Calibration

Continuing Calibration File: 16082844.D

ok 8-30-01

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	4.996	5.374	E3	-7.6	108
2	L1	Aroclor-1016	124.853	136.016		-8.9	108
3	L1	Aroclor-1016 {2}	303.024	327.391		-8.0	107
4	L1	Aroclor-1016 {3}	62.021	69.275		-11.7	109
5	L1	Aroclor-1016 {4}	130.955	145.505		-11.1	107
6	L1	Aroclor-1016 {5}	145.276	159.254		-9.6	108
17	L7	Aroclor-1260	518.620	585.571		-12.9	113
18	L7	Aroclor-1260 {2}	298.131	329.324		-10.5	109
19	L7	Aroclor-1260 {3}	211.642	226.243		-6.9	103
20	L7	Aroclor-1260 {4}	293.643	331.846		-13.0	112
21	L7	Aroclor-1260 {5}	601.915	673.887		-12.0	111
22	S	DCB	8.400	9.137	E3	-8.8	107
		Average %Dev					

Signal #2
Continuing Calibration File: 16082844.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	5.598	6.388	E3	-14.1	112
2	L1	Aroclor-1016	122.049	140.167		-14.8	114
3	L1	Aroclor-1016 {2}	333.977	376.759		-12.8	110
4	L1	Aroclor-1016 {3}	214.454	241.446		-12.6	111
5	L1	Aroclor-1016 {4}	150.733	169.184		-12.2	111
6	L1	Aroclor-1016 {5}	106.908	121.437		-13.6	111
17	L7	Aroclor-1260	537.332	612.736		-14.0	114
18	L7	Aroclor-1260 {2}	290.762	330.667		-13.7	112
19	L7	Aroclor-1260 {3}	197.445	220.263		-11.6	109
20	L7	Aroclor-1260 {4}	258.345	298.047		-15.4#	115
21	L7	Aroclor-1260 {5}	636.390	723.648		-13.7	112
22	S	DCB	7.746	8.819	E3	-13.9	112
		Average %Dev					

(#) = Out of Range SPCC's out = 0 CCC's out = 0

16082844.D XPCBH28.M Wed Aug 29 15:55:29 2001

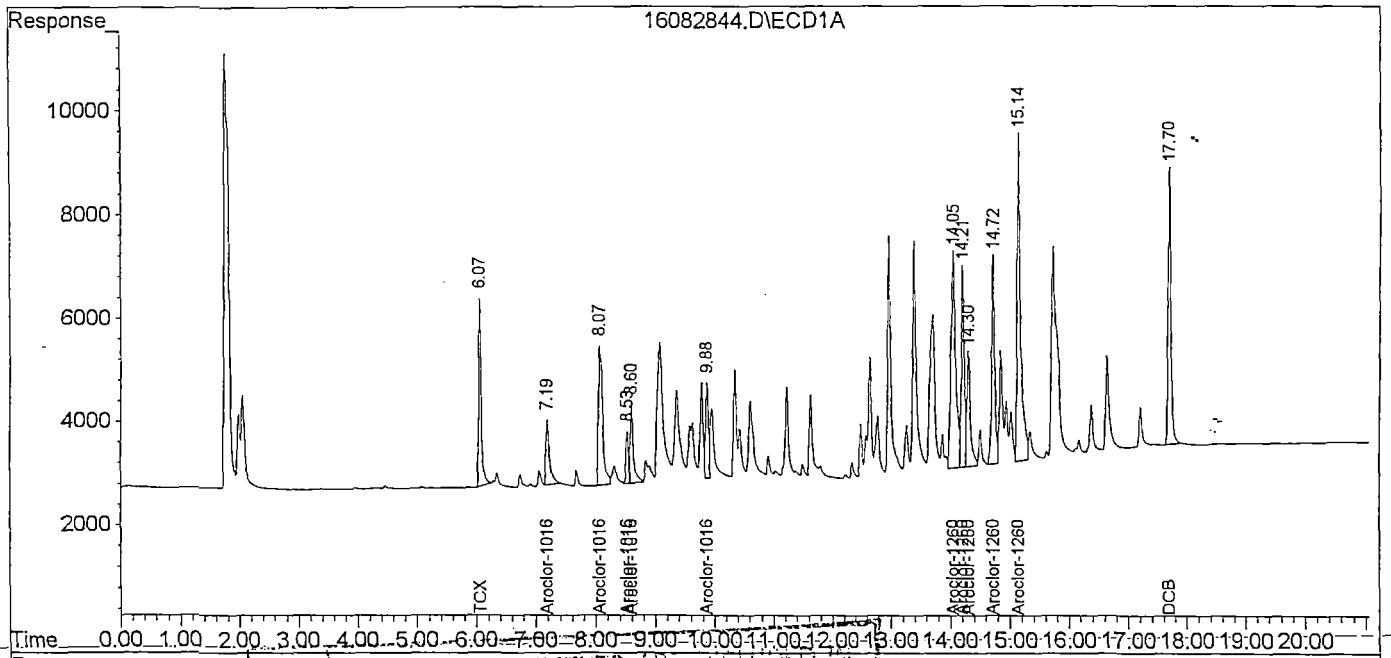
Chromatographic Report

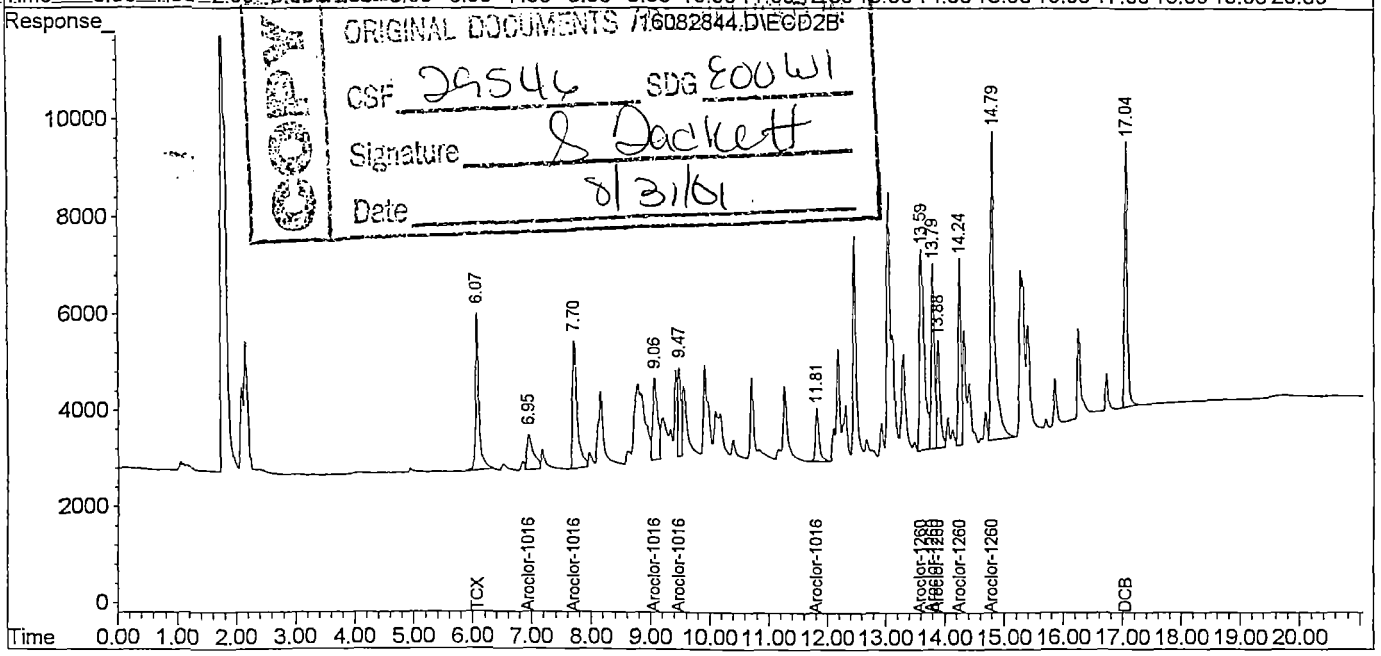
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082844.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082844.D\ECD2B.CH
Acq On : 29 Aug 2001 6:13 Operator: TLM
Sample : AR1660L3CE Inst : HP_16
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:51 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 8-30-01





ORIGINAL DOCUMENTS
CSF 29546 SDG E00W1
Signature S Dackett
Date 8/31/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082844.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082844.D\ECD2B.CH
Acq On : 29 Aug 2001 6:13 Operator: TLM
Sample : AR1660L3CE Inst : HP_16
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:51 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.07	6.08	107489	127757	21.5	22.8
22)	S DCB	17.70	17.05	182732	176388	21.8	22.8
	Target Compounds:						
2)	L1 Aroclor-1016	7.20	6.95	54406	56067	435.8	459.4
3)	L1 Aroclor-1016 {2}	8.08	7.71	130956	150704	432.2	451.2
4)	L1 Aroclor-1016 {3}	8.54	9.06	27710	96579	446.8	450.3
5)	L1 Aroclor-1016 {4}	8.60	9.48	58202	67673	444.4	449.0
6)	L1 Aroclor-1016 {5}	9.88	11.81	63702	48575	438.5	454.4
	Sum Aroclor-1016			334976	419597	2197.6	2264.3
	Average Aroclor-1016					439.528	452.858
17)	L7 Aroclor-1260	14.06	13.60	234229	245094	451.6	456.1
18)	L7 Aroclor-1260 {2}	14.21	13.79	131730	132267	441.9	454.9
19)	L7 Aroclor-1260 {3}	14.31	13.88	90497	88105	427.6	446.2
20)	L7 Aroclor-1260 {4}	14.72	14.25	132739	119219	452.0	461.5
21)	L7 Aroclor-1260 {5}	15.14	14.79	269555	289459	447.8	454.8
	Sum Aroclor-1260			858749	874144	2221.0	2273.6
	Average Aroclor-1260					444.191	454.714

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

Continuing Calibration Report HP_16

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Wed Aug 29 16:19:49 2001
Response via : Initial Calibration

Continuing Calibration File: 16082865.D

ok 8-30-01

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	4.996	4.625	E3	7.4	93
2	L1	Aroclor-1016	124.853	126.164		-1.0	100
3	L1	Aroclor-1016 {2}	303.024	310.644		-2.5	101
4	L1	Aroclor-1016 {3}	62.021	64.597		-4.2	102
5	L1	Aroclor-1016 {4}	130.955	137.335		-4.9	101
6	L1	Aroclor-1016 {5}	145.276	149.510		-2.9	102
17	L7	Aroclor-1260	518.620	549.416		-5.9	106
18	L7	Aroclor-1260 {2}	298.131	306.977		-3.0	101
19	L7	Aroclor-1260 {3}	211.642	204.037		3.6	93
20	L7	Aroclor-1260 {4}	293.643	309.325		-5.3	105
21	L7	Aroclor-1260 {5}	601.915	625.957		-4.0	103
22	S	DCB	8.400	8.463	E3	-0.8	99
		Average %Dev					

Signal #2
Continuing Calibration File: 16082865.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	5.598	5.192	E3	7.3	91
2	L1	Aroclor-1016	122.049	141.239		-15.7#	115
3	L1	Aroclor-1016 {2}	333.977	368.991		-10.5	108
4	L1	Aroclor-1016 {3}	214.454	235.194		-9.7	108
5	L1	Aroclor-1016 {4}	150.733	163.824		-8.7	107
6	L1	Aroclor-1016 {5}	106.908	116.787		-9.2	107
17	L7	Aroclor-1260	537.332	597.156		-11.1	111
18	L7	Aroclor-1260 {2}	290.762	317.600		-9.2	108
19	L7	Aroclor-1260 {3}	197.445	209.714		-6.2	104
20	L7	Aroclor-1260 {4}	258.345	289.445		-12.0	112
21	L7	Aroclor-1260 {5}	636.390	697.638		-9.6	108
22	S	DCB	7.746	8.453	E3	-9.1	107
		Average %Dev					

(#) = Out of Range SPCC's out = 0 CCC's out = 0

16082865.D XPCBH28.M Wed Aug 29 16:19:59 2001

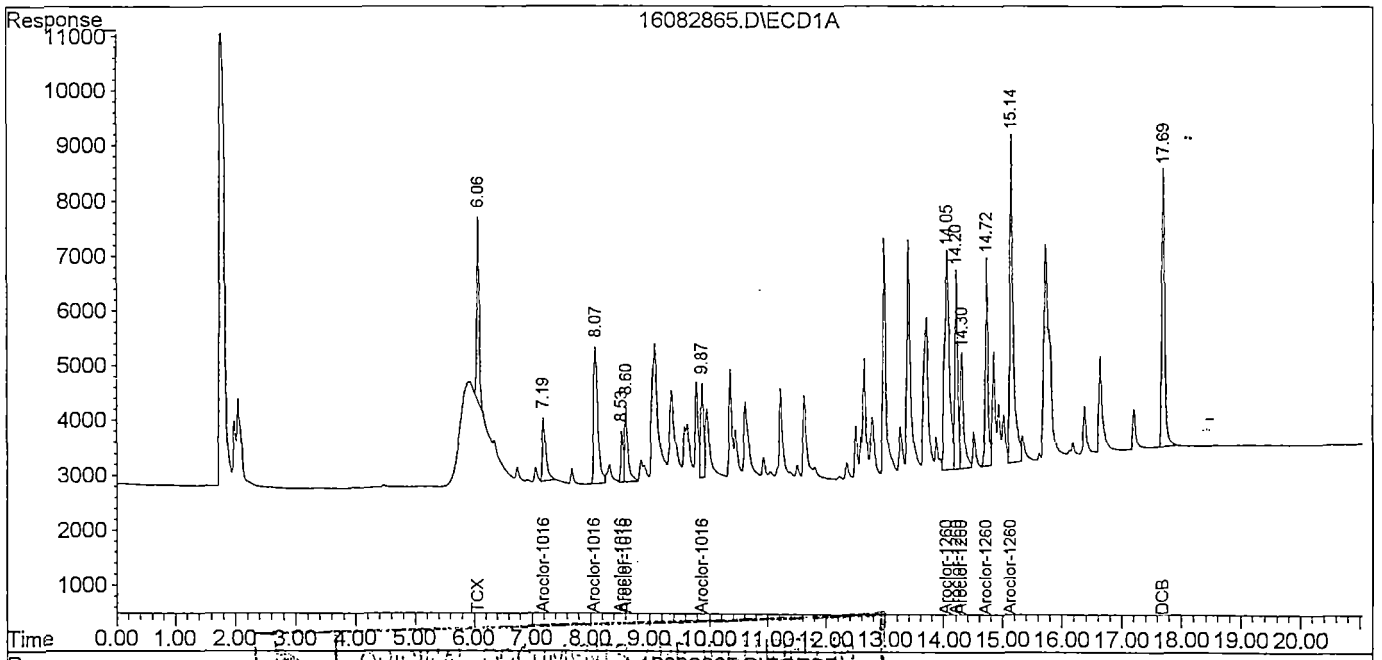
Chromatographic Report

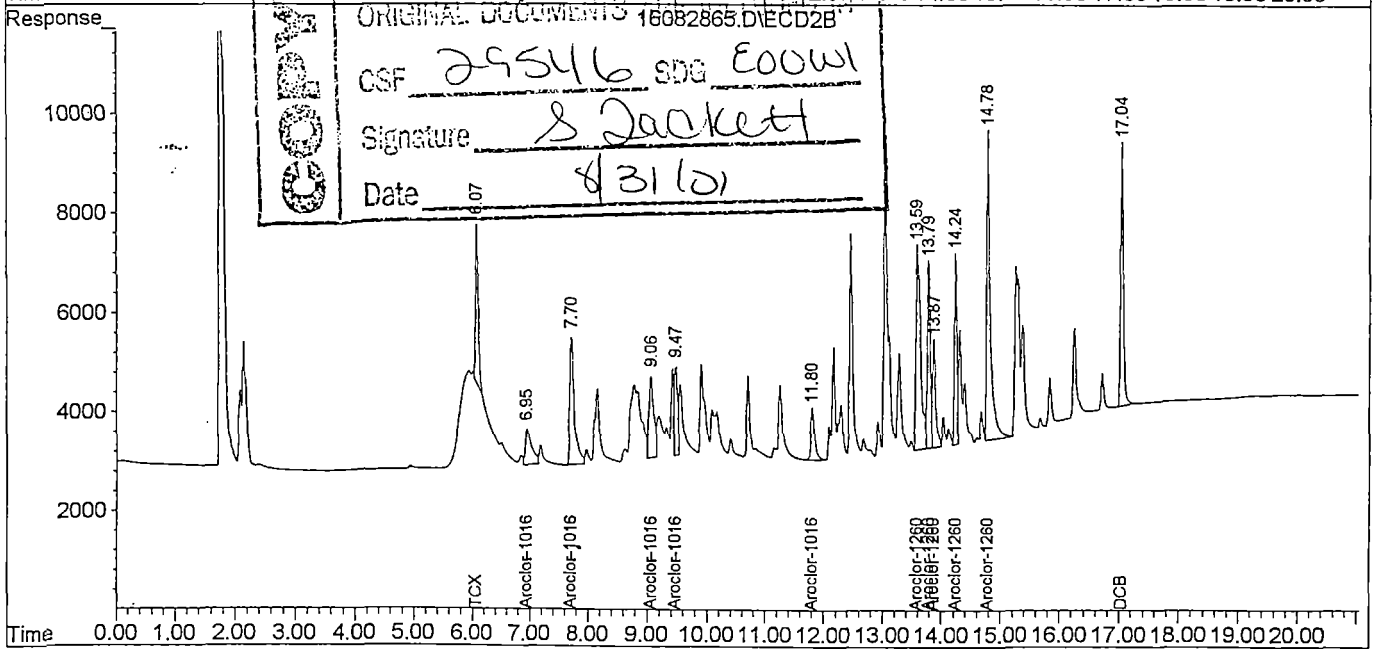
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082865.D\ECD1A.CH Vial: 65
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082865.D\ECD2B.CH
Acq On : 29 Aug 2001 14:50 Operator: TLM
Sample : AR1660L3CG Inst : HP_16
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 16:19 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

ok 8-30-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





ORIGINAL DOCUMENTS
CSF 29546 SDG E00W1
Signature S Jackett
Date 8/31/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082865.D\ECD1A.CH Vial: 65
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082865.D\ECD2B.CH
Acq On : 29 Aug 2001 14:50 Operator: TLM
Sample : AR1660L3CG Inst : HP_16
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 16:19 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

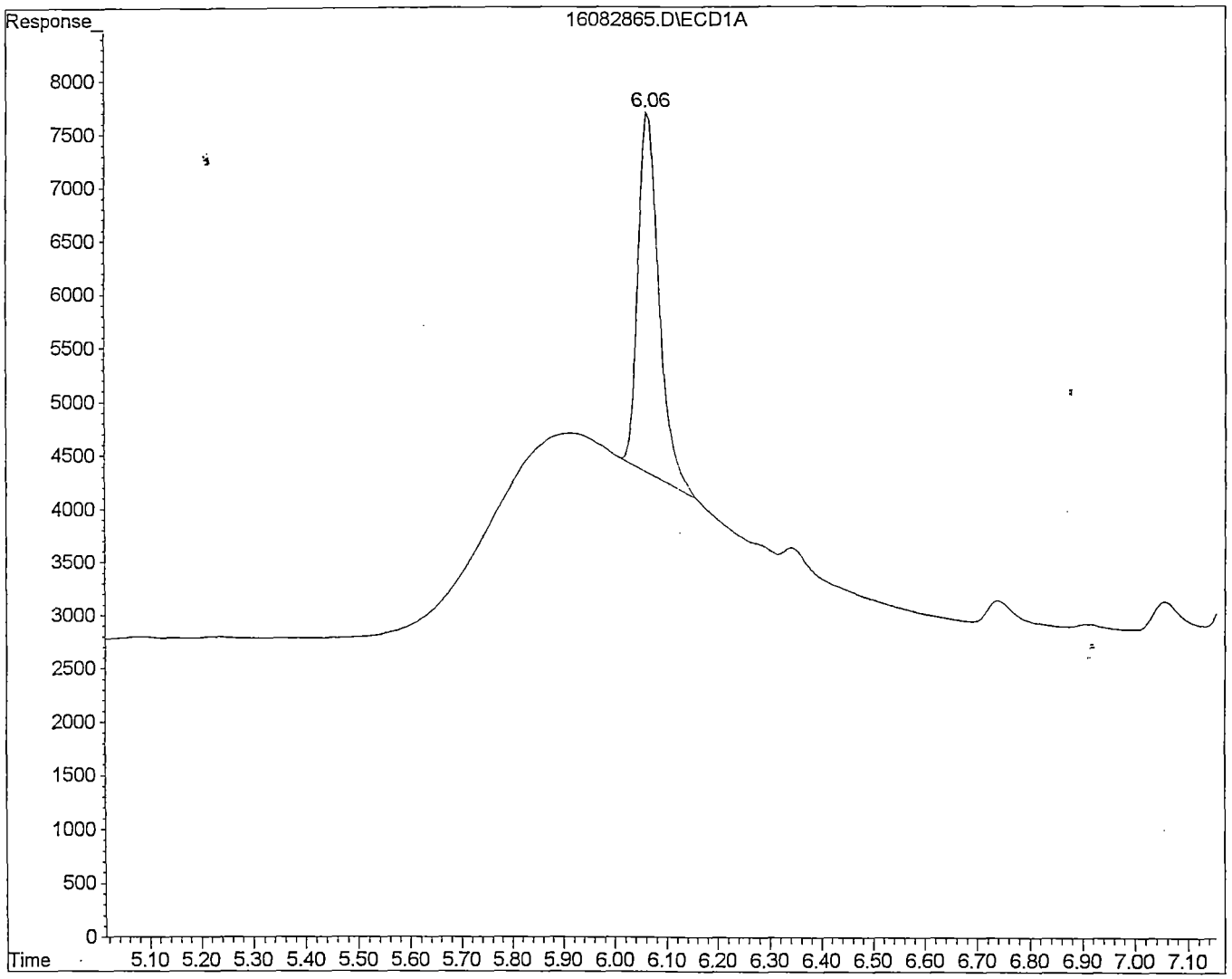
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds:						
1) S TCX	6.06	6.07	92492	103834	18.5m	18.5m
22) S DCB	17.70	17.04	169262	169064	20.2	21.8
Target Compounds:						
2) L1 Aroclor-1016	7.19	6.95	50466	56495	404.2	462.9
3) L1 Aroclor-1016 {2}	8.07	7.70	124258	147596	410.1	441.9
4) L1 Aroclor-1016 {3}	8.53	9.06	25839	94077	416.6	438.7
5) L1 Aroclor-1016 {4}	8.60	9.47	54934	65530	419.5	434.7
6) L1 Aroclor-1016 {5}	9.87	11.81	59804	46715	411.7	437.0
Sum Aroclor-1016			315300	410414	2062.0	2215.2
Average Aroclor-1016					412.404	443.043
17) L7 Aroclor-1260	14.05	13.59	219766	238862	423.8	444.5
18) L7 Aroclor-1260 {2}	14.21	13.79	122791	127040	411.9	436.9
19) L7 Aroclor-1260 {3}	14.30	13.88	81615	83886	385.6	424.9
20) L7 Aroclor-1260 {4}	14.72	14.24	123730	115778	421.4	448.2
21) L7 Aroclor-1260 {5}	15.14	14.79	250383	279055	416.0	438.5
Sum Aroclor-1260			798285	844621	2058.6	2193.0
Average Aroclor-1260					411.717	438.592

SM 8-29-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_28_01\16082865.D
Date Acquired: 29 Aug 2001 14:50
Inst: HP_16 Operator ID: TLM
Name: AR1660L3CG
Misc: 5-128-7
Method: F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title: PCB/TOXAPHENE
Quant Time: Aug 29 16:19 2001 Quant Results File: XPCBH28.RES



TCX 6.06min area: 92492 m

Integration Time Range: 6.01 - 6.15

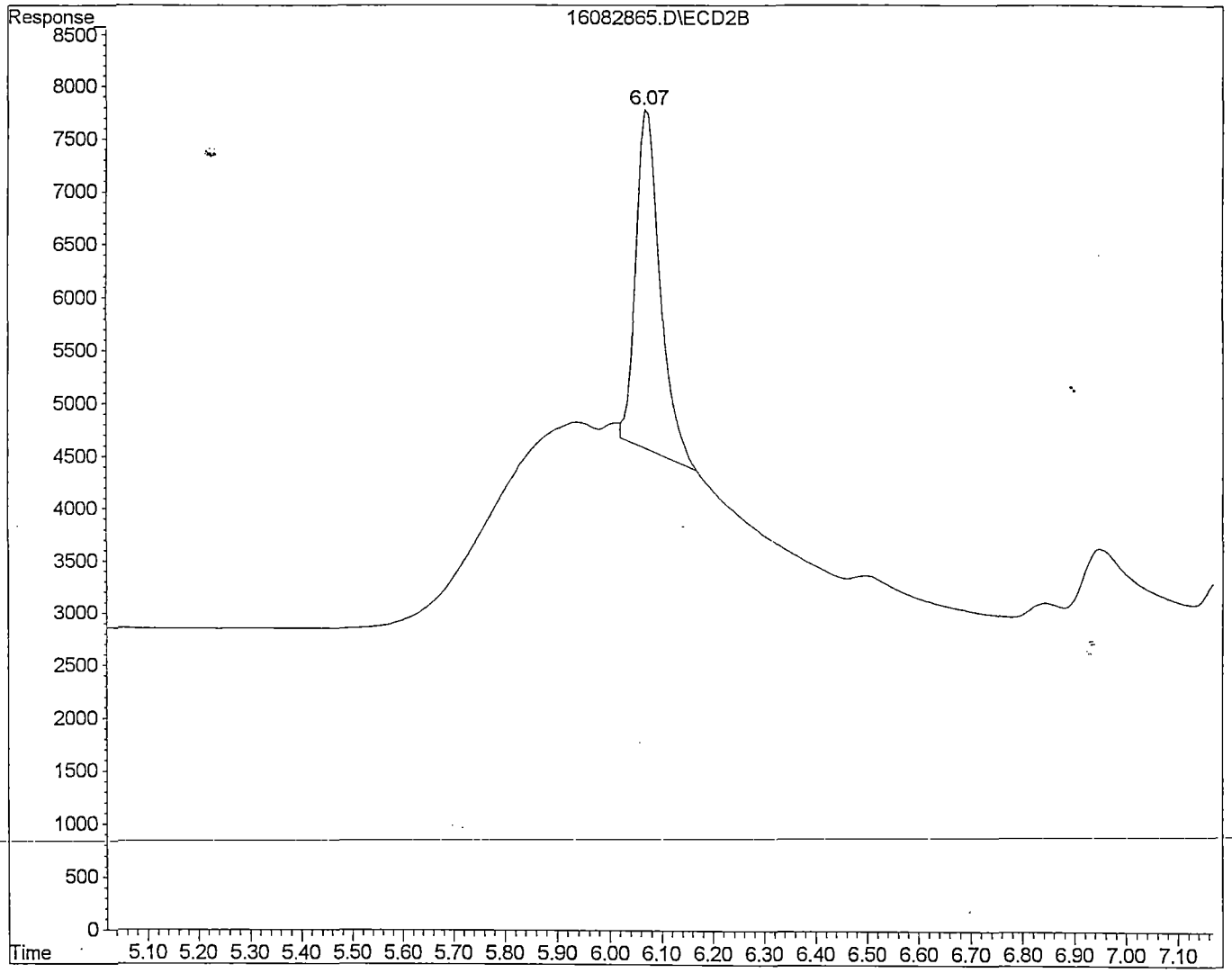
JM 8-29-01

ok 8-30-01 BP

F:\HPCHEM\HP\16\DATA\08_28_01\16082865.D
Report generated: Wed Aug 29 16:21:22 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_28_01\16082865.D
Date Acquired: 29 Aug 2001 14:50
Inst: HP_16 Operator ID: TLM
Name: AR1660L3CG
Misc: 5-128-7
Method: F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title: PCB/TOXAPHENE
Quant Time: Aug 29 16:19 2001 Quant Results File: XPCBH28.RES



TCX #2 6.07min area: 103834 m

Integration Time Range: 6.02 - 6.17

JOM 8-29-01

ok 8-30-01

F:\HPCHEM\HP\16\DATA\08_28_01\16082865.D
Report generated: Wed Aug 29 16:21:23 2001

Chromatographic Resolution Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083110.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083110.D\ECD2B.CH
Acq On : 31 Aug 2001 17:33 Operator: TLM
Sample : RESCCG Inst : HP_16
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title : PCB/TOXAPHENE

RT#1	RT#2	Resolution	Compound for RT#1
6.023	17.668	100.00%	TCX
Signal #2			
6.028	17.020	100.00%	TCX #2

* = Value less than resolution criteria, 60 for RESC, 90 for PEM, INDA, INDB
16083110.D XPCBH31.M Sat Sep 01 10:44:20 2001

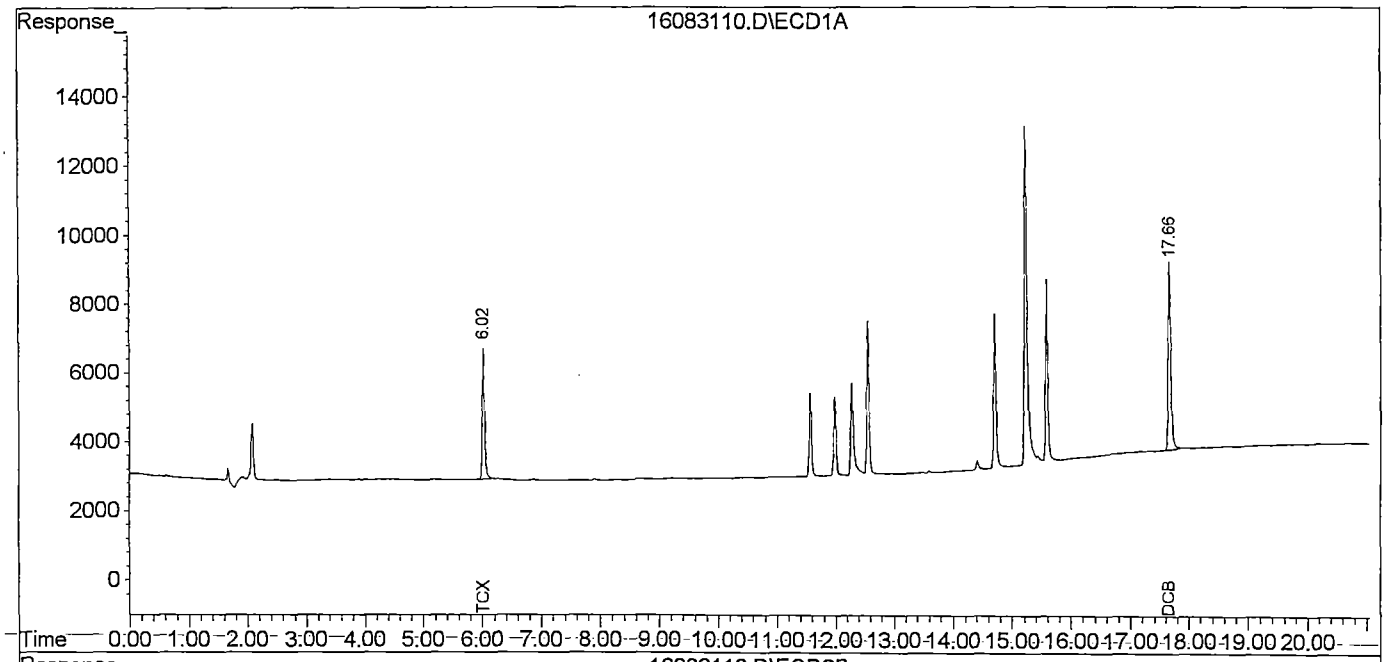
Chromatographic Report

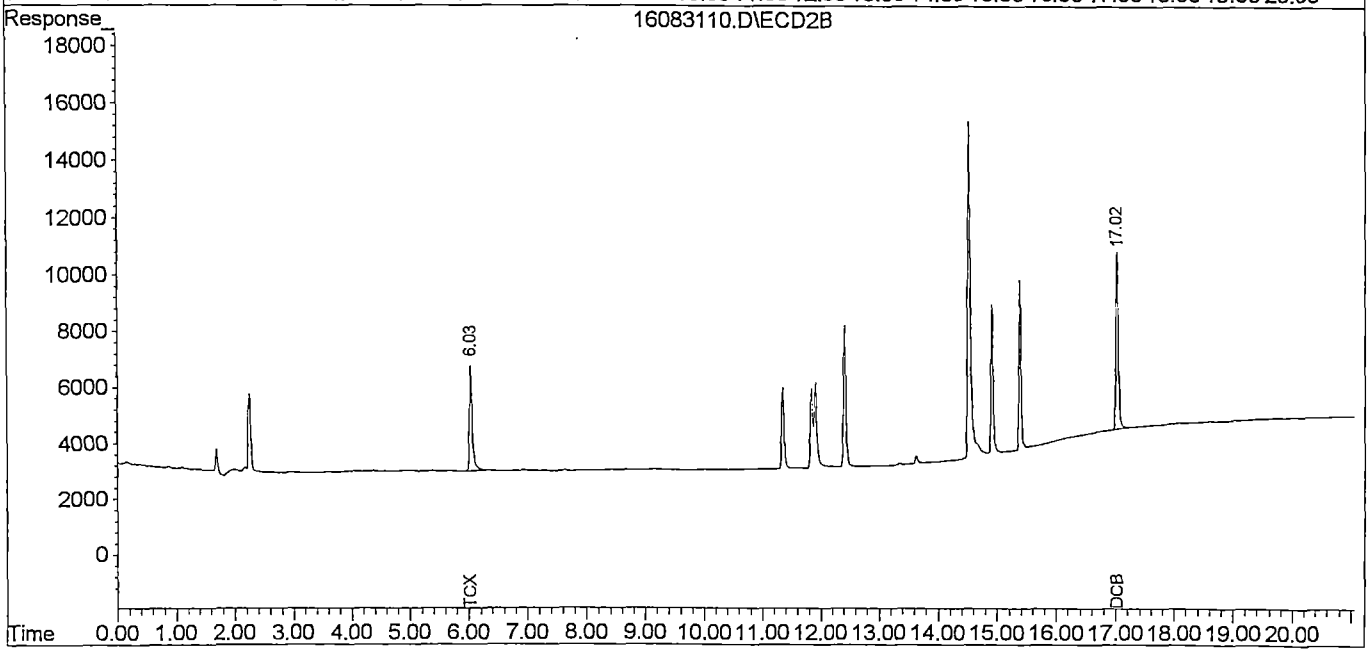
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083110.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083110.D\ECD2B.CH
Acq On : 31 Aug 2001 17:33 Operator: TLM
Sample : RESCCG ✓ Inst : HP_16
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:43 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ob 9-4-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083110.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083110.D\ECD2B.CH
Acq On : 31 Aug 2001 17:33 Operator: TLM
Sample : RESCCG Inst : HP_16
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:43 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	101165	117892	19.9	19.3
22)	S DCB	17.67	17.02	174500	190967	19.9	21.3

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

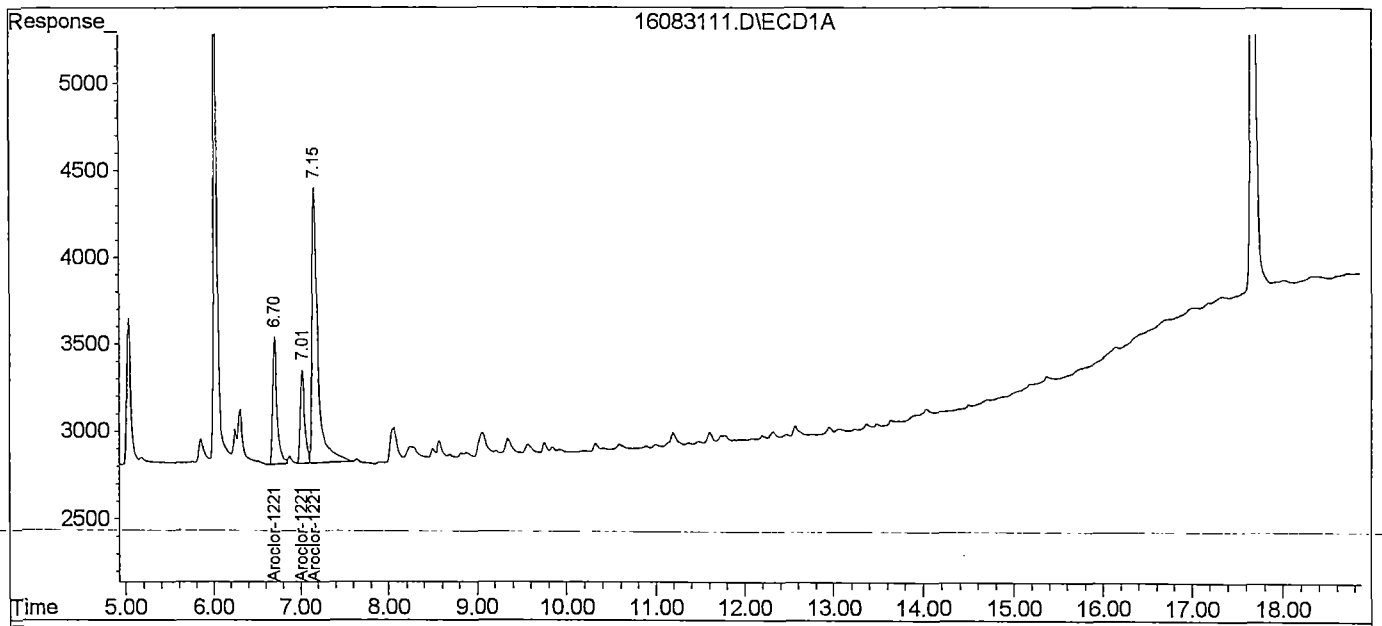
Chromatographic Report

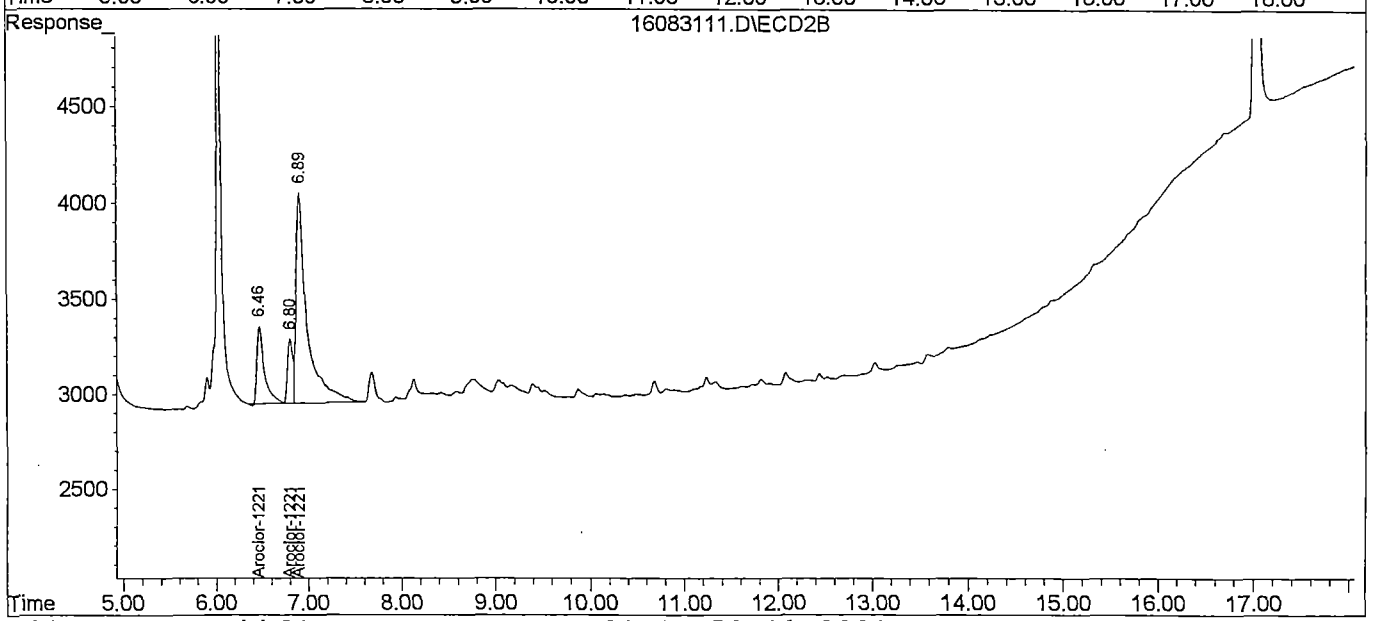
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083111.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083111.D\ECD2B.CH
Acq On : 31 Aug 2001 17:58 Operator: TLM
Sample : AR1221L3CG Inst : HP_16
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:57 2001 Quant Results File: xspcbh31.RES
Quant Time: Sep 1 10:57 2001 Quant Results File: xspcbh31.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001

Multi-Component Method : f:\hpchem\hp\16\data\08_31_01\xspcbh31.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 9-4-01





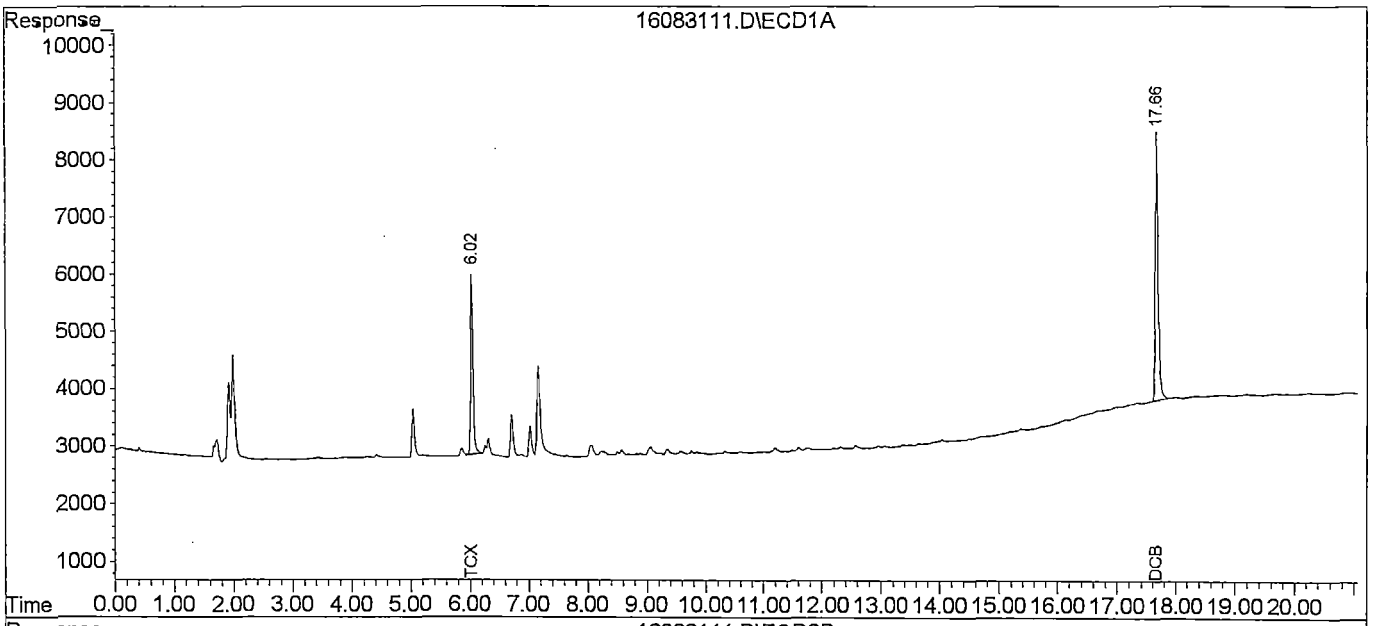
Chromatographic Report

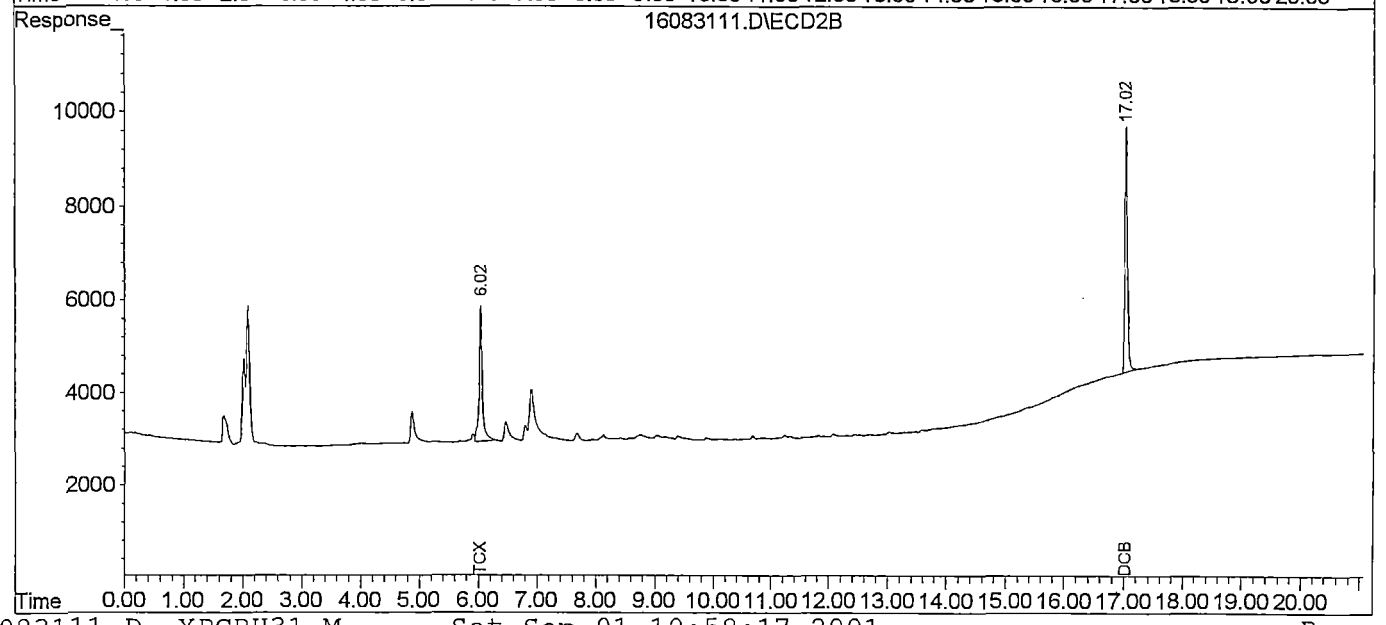
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083111.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083111.D\ECD2B.CH
Acq On : 31 Aug 2001 17:58 Operator: TLM
Sample : AR1221L3CG Inst : HP_16
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:43 2001 Quant Results File: XPCBH31.RES
Quant Time: Sep 1 10:57 2001 Quant Results File: xspcbh31.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001

Multi-Component Method : f:\hpchem\hp\16\data\08_31_01\xspcbh31.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

bh
9-4-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083111.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083111.D\ECD2B.CH
Acq On : 31 Aug 2001 17:58 Operator: TLM
Sample : AR1221L3CG Inst : HP_16
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:43 2001 Quant Results File: XPCBH31.RES
Multi Time: Sep 1 10:57 2001 Quant Results File: xspcbh31.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001

Multi-Component Method : f:\hpchem\hp\16\data\08_31_01\xspcbh31.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	85734	109220	16.8	17.9
22)	S DCB	17.67	17.02	153319	159857	17.5	17.8
	Target Compounds:						
	Multi-Component Compounds:						
2)	L2 Aroclor-1221	6.70	6.46	24564	23484	400.0	400.0
3)	L2 Aroclor-1221 {2}	7.02	6.80	17967	12203	400.0	400.0
4)	L2 Aroclor-1221 {3}	7.15	6.90	74944	91195	400.0	400.0
	Sum Aroclor-1221			117476	126882	1200.0	1200.0
	Average Aroclor-1221					400.000	400.000

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

Continuing Calibration Report HP_16

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Wed Aug 29 15:55:22 2001
Response via : Initial Calibration

Continuing Calibration File: 16082844.D

ok 8-30-01

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	4.996	5.374	E3	-7.6	108
2	L1	Aroclor-1016	124.853	136.016		-8.9	108
3	L1	Aroclor-1016 {2}	303.024	327.391		-8.0	107
4	L1	Aroclor-1016 {3}	62.021	69.275		-11.7	109
5	L1	Aroclor-1016 {4}	130.955	145.505		-11.1	107
6	L1	Aroclor-1016 {5}	145.276	159.254		-9.6	108
17	L7	Aroclor-1260	518.620	585.571		-12.9	113
18	L7	Aroclor-1260 {2}	298.131	329.324		-10.5	109
19	L7	Aroclor-1260 {3}	211.642	226.243		-6.9	103
20	L7	Aroclor-1260 {4}	293.643	331.846		-13.0	112
21	L7	Aroclor-1260 {5}	601.915	673.887		-12.0	111
22	S	DCB	8.400	9.137	E3	-8.8	107
		Average %Dev					

Signal #2
Continuing Calibration File: 16082844.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	5.598	6.388	E3	-14.1	112
2	L1	Aroclor-1016	122.049	140.167		-14.8	114
3	L1	Aroclor-1016 {2}	333.977	376.759		-12.8	110
4	L1	Aroclor-1016 {3}	214.454	241.446		-12.6	111
5	L1	Aroclor-1016 {4}	150.733	169.184		-12.2	111
6	L1	Aroclor-1016 {5}	106.908	121.437		-13.6	111
17	L7	Aroclor-1260	537.332	612.736		-14.0	114
18	L7	Aroclor-1260 {2}	290.762	330.667		-13.7	112
19	L7	Aroclor-1260 {3}	197.445	220.263		-11.6	109
20	L7	Aroclor-1260 {4}	258.345	298.047		-15.4#	115
21	L7	Aroclor-1260 {5}	636.390	723.648		-13.7	112
22	S	DCB	7.746	8.819	E3	-13.9	112
		Average %Dev					

(#) = Out of Range SPCC's out = 0 CCC's out = 0

16082844.D XPCBH28.M Wed Aug 29 15:55:29 2001

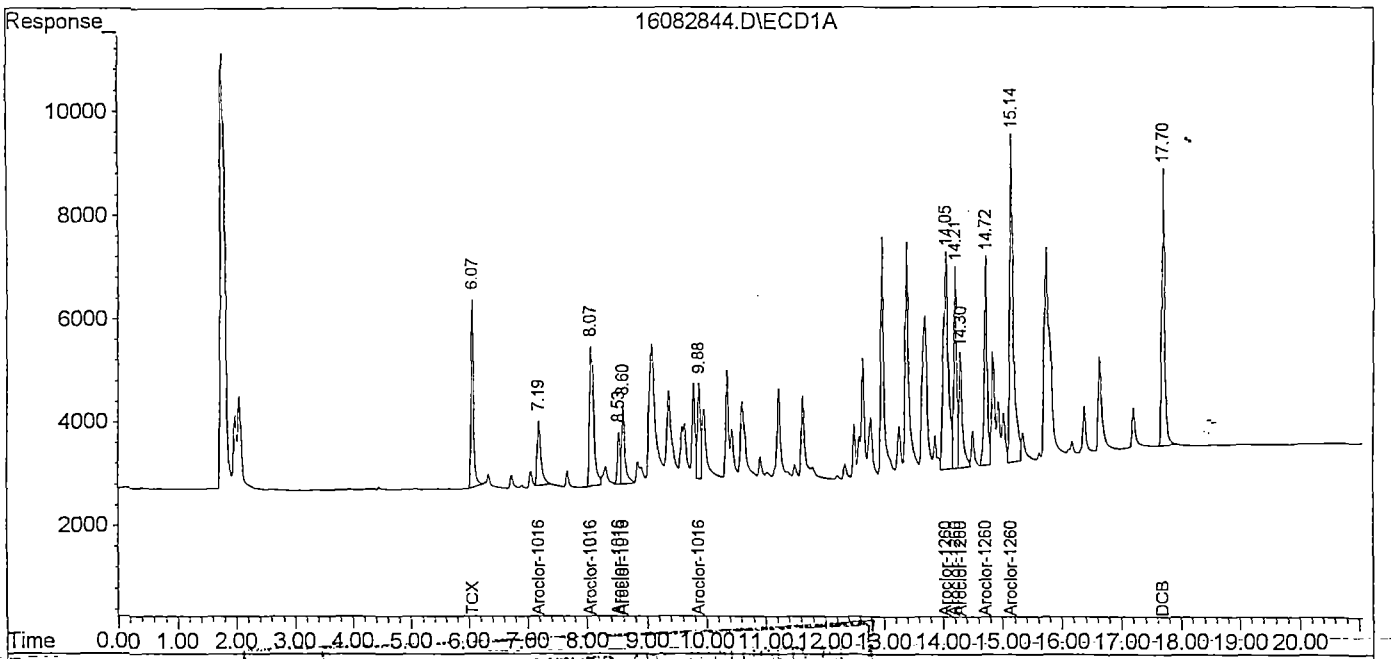
Chromatographic Report

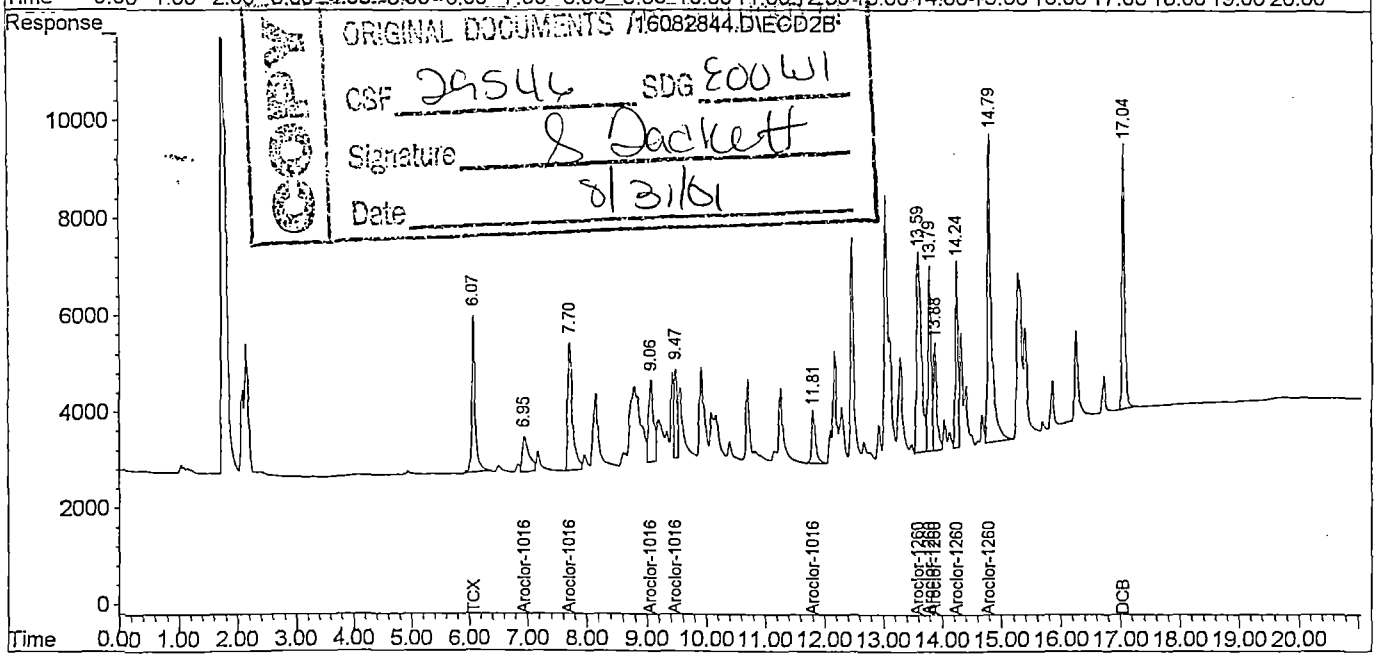
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082844.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082844.D\ECD2B.CH
Acq On : 29 Aug 2001 6:13 Operator: TLM
Sample : AR1660L3CE Inst : HP_16
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:51 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

ok 8-30-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





ORIGINAL DOCUMENTS
CSF 29544 SDG E00W1
Signature S Dackett
Date 8/31/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082844.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082844.D\ECD2B.CH
Acq On : 29 Aug 2001 6:13 Operator: TLM
Sample : AR1660L3CE Inst : HP_16
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:51 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.07	6.08	107489	127757	21.5	22.8
22)	S DCB	17.70	17.05	182732	176388	21.8	22.8
	Target Compounds:						
2)	L1 Aroclor-1016	7.20	6.95	54406	56067	435.8	459.4
3)	L1 Aroclor-1016 {2}	8.08	7.71	130956	150704	432.2	451.2
4)	L1 Aroclor-1016 {3}	8.54	9.06	27710	96579	446.8	450.3
5)	L1 Aroclor-1016 {4}	8.60	9.48	58202	67673	444.4	449.0
6)	L1 Aroclor-1016 {5}	9.88	11.81	63702	48575	438.5	454.4
	Sum Aroclor-1016			334976	419597	2197.6	2264.3
	Average Aroclor-1016					439.528	452.858
17)	L7 Aroclor-1260	14.06	13.60	234229	245094	451.6	456.1
18)	L7 Aroclor-1260 {2}	14.21	13.79	131730	132267	441.9	454.9
19)	L7 Aroclor-1260 {3}	14.31	13.88	90497	88105	427.6	446.2
20)	L7 Aroclor-1260 {4}	14.72	14.25	132739	119219	452.0	461.5
21)	L7 Aroclor-1260 {5}	15.14	14.79	269555	289459	447.8	454.8
	Sum Aroclor-1260			858749	874144	2221.0	2273.6
	Average Aroclor-1260					444.191	454.714

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

Continuing Calibration Report HP_16

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Wed Aug 29 16:19:49 2001
Response via : Initial Calibration

Continuing Calibration File: 16082865.D

ok 8-30-01

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	4.996	4.625	E3	7.4	93
2	L1	Aroclor-1016	124.853	126.164		-1.0	100
3	L1	Aroclor-1016 {2}	303.024	310.644		-2.5	101
4	L1	Aroclor-1016 {3}	62.021	64.597		-4.2	102
5	L1	Aroclor-1016 {4}	130.955	137.335		-4.9	101
6	L1	Aroclor-1016 {5}	145.276	149.510		-2.9	102
17	L7	Aroclor-1260	518.620	549.416		-5.9	106
18	L7	Aroclor-1260 {2}	298.131	306.977		-3.0	101
19	L7	Aroclor-1260 {3}	211.642	204.037		3.6	93
20	L7	Aroclor-1260 {4}	293.643	309.325		-5.3	105
21	L7	Aroclor-1260 {5}	601.915	625.957		-4.0	103
22	S	DCB	8.400	8.463	E3	-0.8	99
		Average %Dev					

Signal #2
Continuing Calibration File: 16082865.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	5.598	5.192	E3	7.3	91
2	L1	Aroclor-1016	122.049	141.239		-15.7#	115
3	L1	Aroclor-1016 {2}	333.977	368.991		-10.5	108
4	L1	Aroclor-1016 {3}	214.454	235.194		-9.7	108
5	L1	Aroclor-1016 {4}	150.733	163.824		-8.7	107
6	L1	Aroclor-1016 {5}	106.908	116.787		-9.2	107
17	L7	Aroclor-1260	537.332	597.156		-11.1	111
18	L7	Aroclor-1260 {2}	290.762	317.600		-9.2	108
19	L7	Aroclor-1260 {3}	197.445	209.714		-6.2	104
20	L7	Aroclor-1260 {4}	258.345	289.445		-12.0	112
21	L7	Aroclor-1260 {5}	636.390	697.638		-9.6	108
22	S	DCB	7.746	8.453	E3	-9.1	107
		Average %Dev					

(#) = Out of Range SPCC's out = 0 CCC's out = 0

16082865.D XPCBH28.M Wed Aug 29 16:19:59 2001

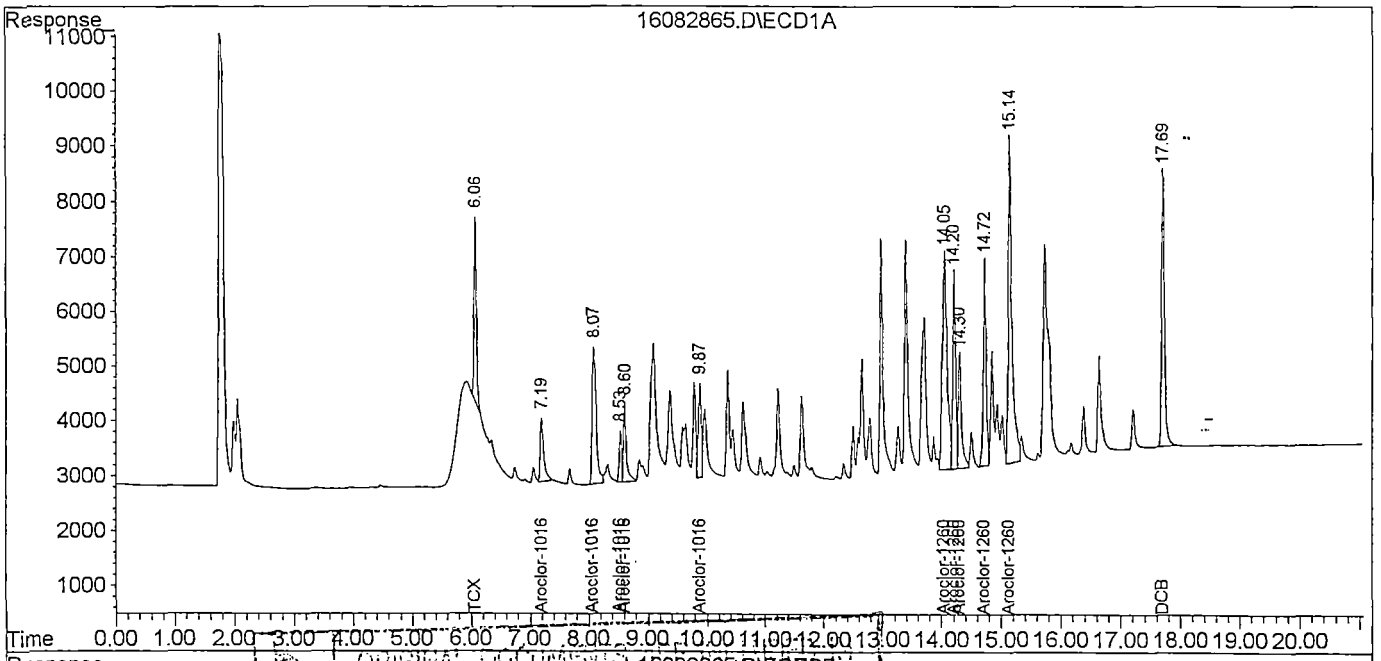
Chromatographic Report

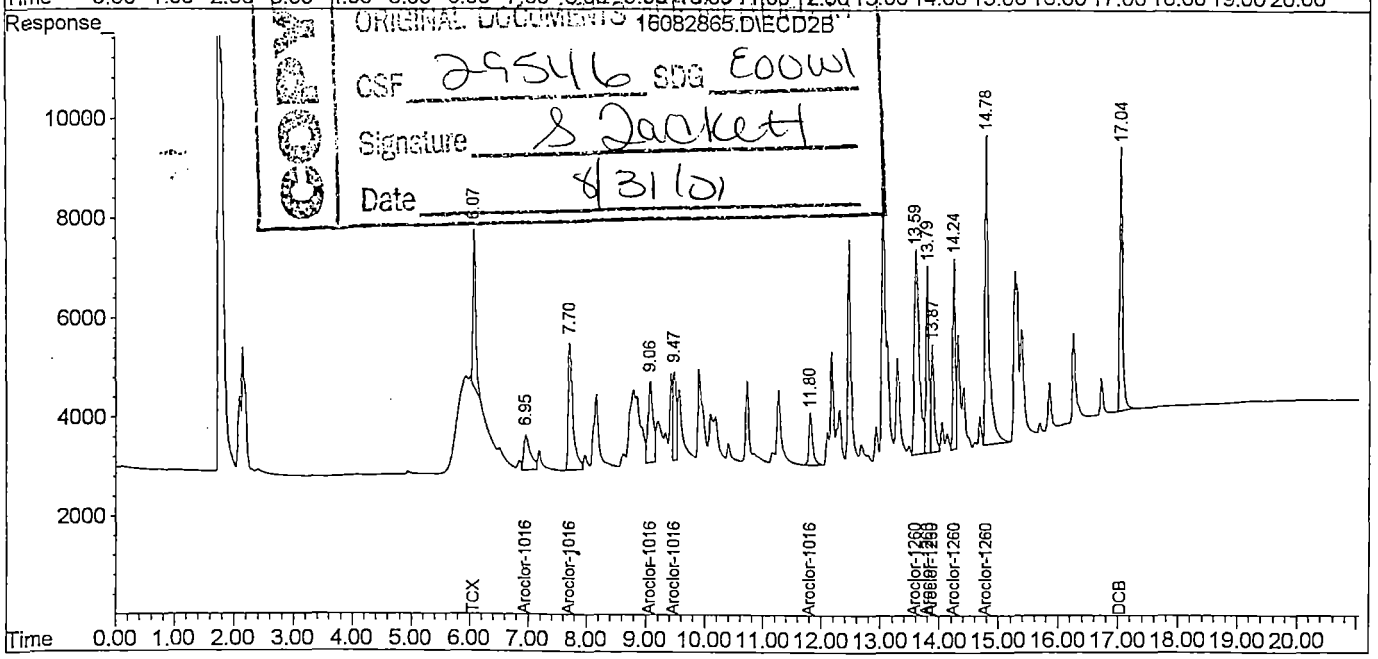
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082865.D\ECD1A.CH Vial: 65
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082865.D\ECD2B.CH
Acq On : 29 Aug 2001 14:50 Operator: TLM
Sample : AR1660L3CG Inst : HP_16
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 16:19 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

ok 8-30-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





ORIGINAL DOCUMENTS
CSF 29546 SDG E00W1
Signature S Jackett
Date 8/31/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082865.D\ECD1A.CH Vial: 65
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082865.D\ECD2B.CH
Acq On : 29 Aug 2001 14:50 Operator: TLM
Sample : AR1660L3CG Inst : HP_16
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 16:19 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

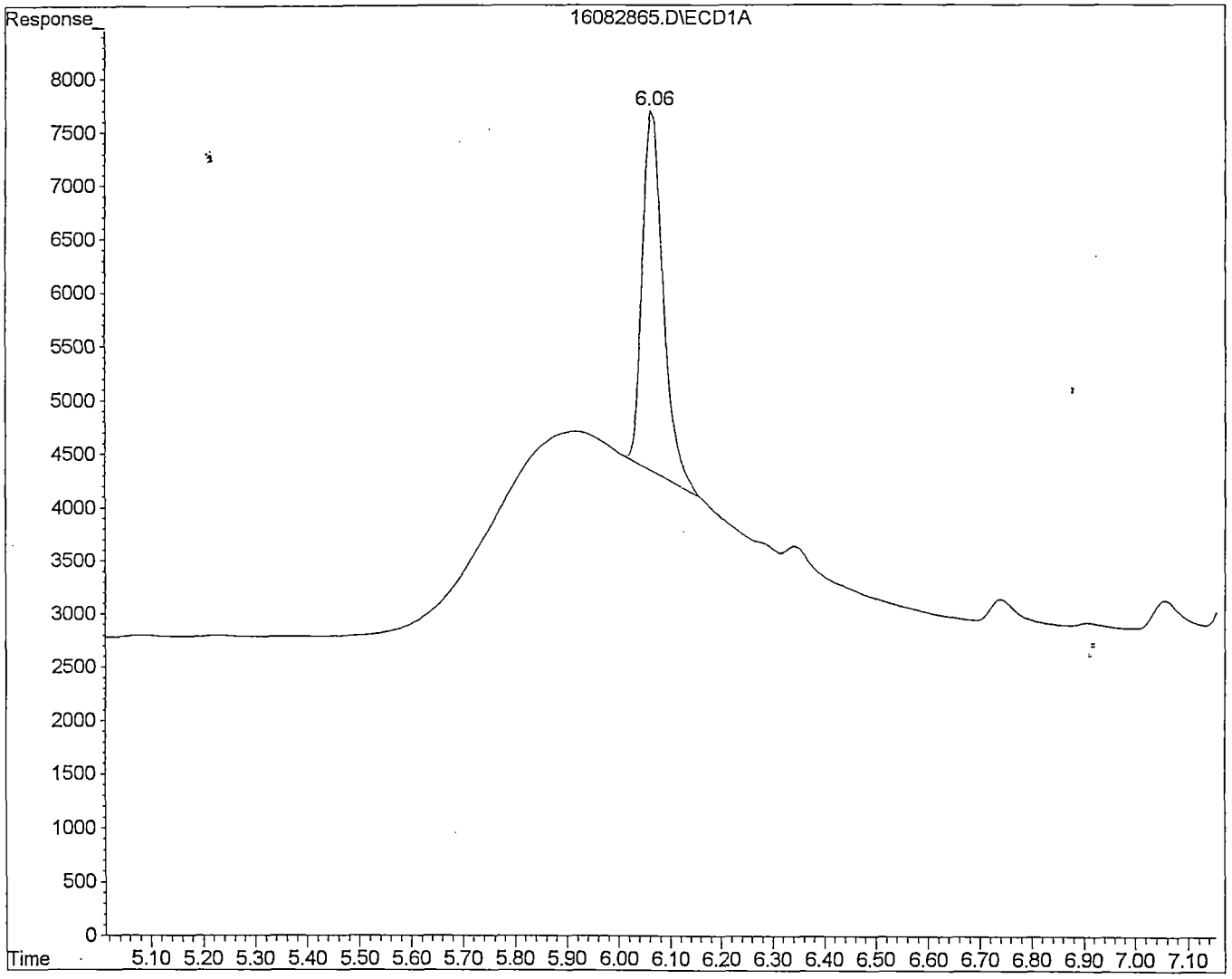
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds:						
1) S TCX	6.06	6.07	92492	103834	18.5m	18.5m
22) S DCB	17.70	17.04	169262	169064	20.2	21.8
Target Compounds:						
2) L1 Aroclor-1016	7.19	6.95	50466	56495	404.2	462.9
3) L1 Aroclor-1016 {2}	8.07	7.70	124258	147596	410.1	441.9
4) L1 Aroclor-1016 {3}	8.53	9.06	25839	94077	416.6	438.7
5) L1 Aroclor-1016 {4}	8.60	9.47	54934	65530	419.5	434.7
6) L1 Aroclor-1016 {5}	9.87	11.81	59804	46715	411.7	437.0
Sum Aroclor-1016			315300	410414	2062.0	2215.2
Average Aroclor-1016					412.404	443.043
17) L7 Aroclor-1260	14.05	13.59	219766	238862	423.8	444.5
18) L7 Aroclor-1260 {2}	14.21	13.79	122791	127040	411.9	436.9
19) L7 Aroclor-1260 {3}	14.30	13.88	81615	83886	385.6	424.9
20) L7 Aroclor-1260 {4}	14.72	14.24	123730	115778	421.4	448.2
21) L7 Aroclor-1260 {5}	15.14	14.79	250383	279055	416.0	438.5
Sum Aroclor-1260			798285	844621	2058.6	2193.0
Average Aroclor-1260					411.717	438.592

TM 8-29-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_28_01\16082865.D
Date Acquired: 29 Aug 2001 14:50
Inst: HP_16 Operator ID: TLM
Name: AR1660L3CG
Misc: 5-128-7
Method: F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title: PCB/TOXAPHENE
Quant Time: Aug 29 16:19 2001 Quant Results File: XPCBH28.RES



TCX 6.06min area: 92492 m

Integration Time Range: 6.01 - 6.15

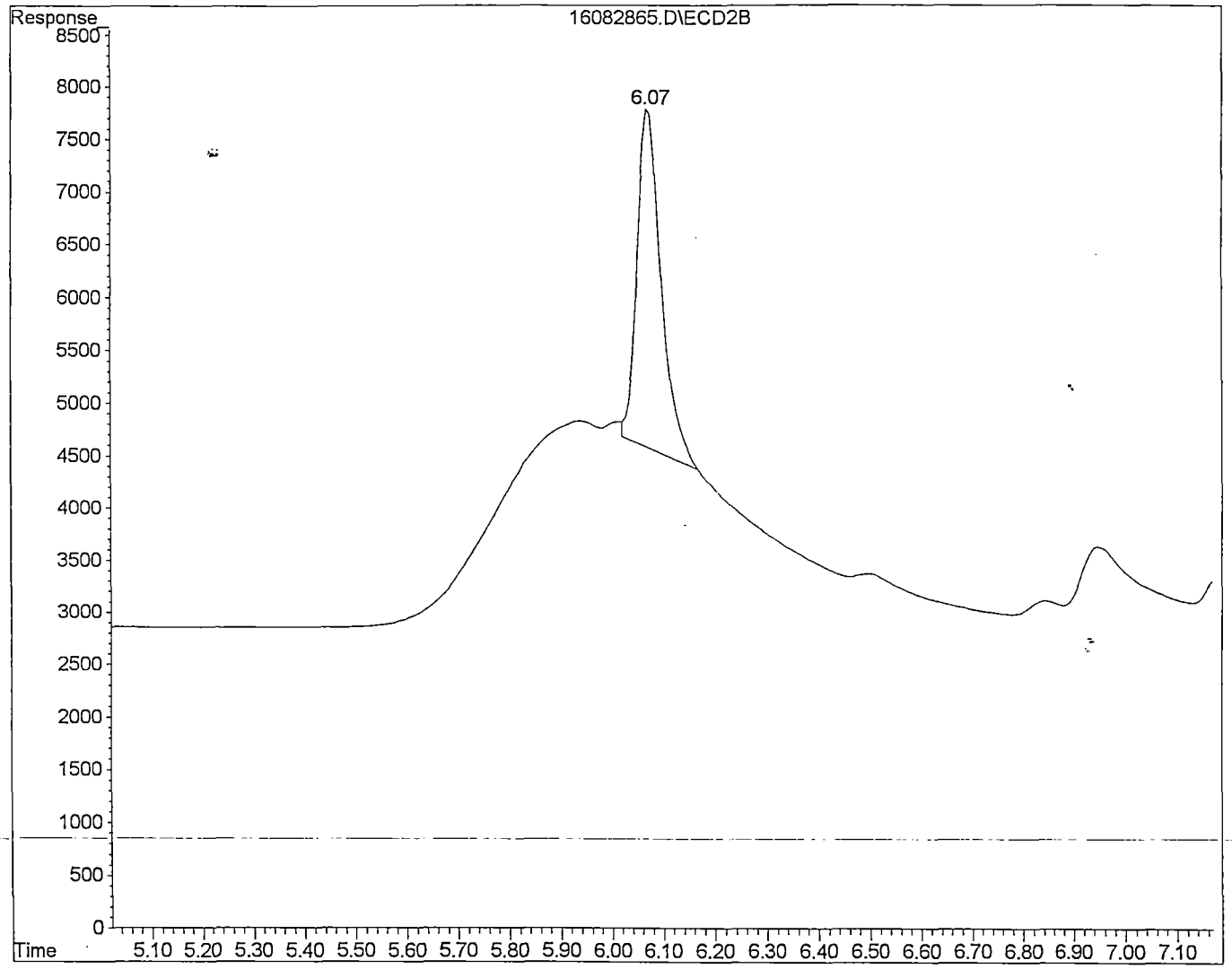
JM 8-29-01

ok 8-30-01 BR

F:\HPCHEM\HP\16\DATA\08_28_01\16082865.D
Report generated: Wed Aug 29 16:21:22 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\08_28_01\16082865.D
Date Acquired: 29 Aug 2001 14:50
Inst: HP_16 Operator ID: TLM
Name: AR1660L3CG
Misc: 5-128-7
Method: F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title: PCB/TOXAPHENE
Quant Time: Aug 29 16:19 2001 Quant Results File: XPCBH28.RES



TCX #2 6.07min area: 103834 m

Integration Time Range: 6.02 - 6.17

JM 8-29-01

ok 8-30-01

F:\HPCHEM\HP\16\DATA\08_28_01\16082865.D
Report generated: Wed Aug 29 16:21:23 2001

Chromatographic Resolution Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083110.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083110.D\ECD2B.CH
Acq On : 31 Aug 2001 17:33 Operator: TLM
Sample : RESCCG Inst : HP_16
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title : PCB/TOXAPHENE

RT#1	RT#2	Resolution	Compound for RT#1
6.023	17.668	100.00%	TCX
Signal #2			
6.028	17.020	100.00%	TCX #2

* = Value less than resolution criteria, 60 for RESC, 90 for PEM, INDA, INDB
16083110.D XPCBH31.M Sat Sep 01 10:44:20 2001

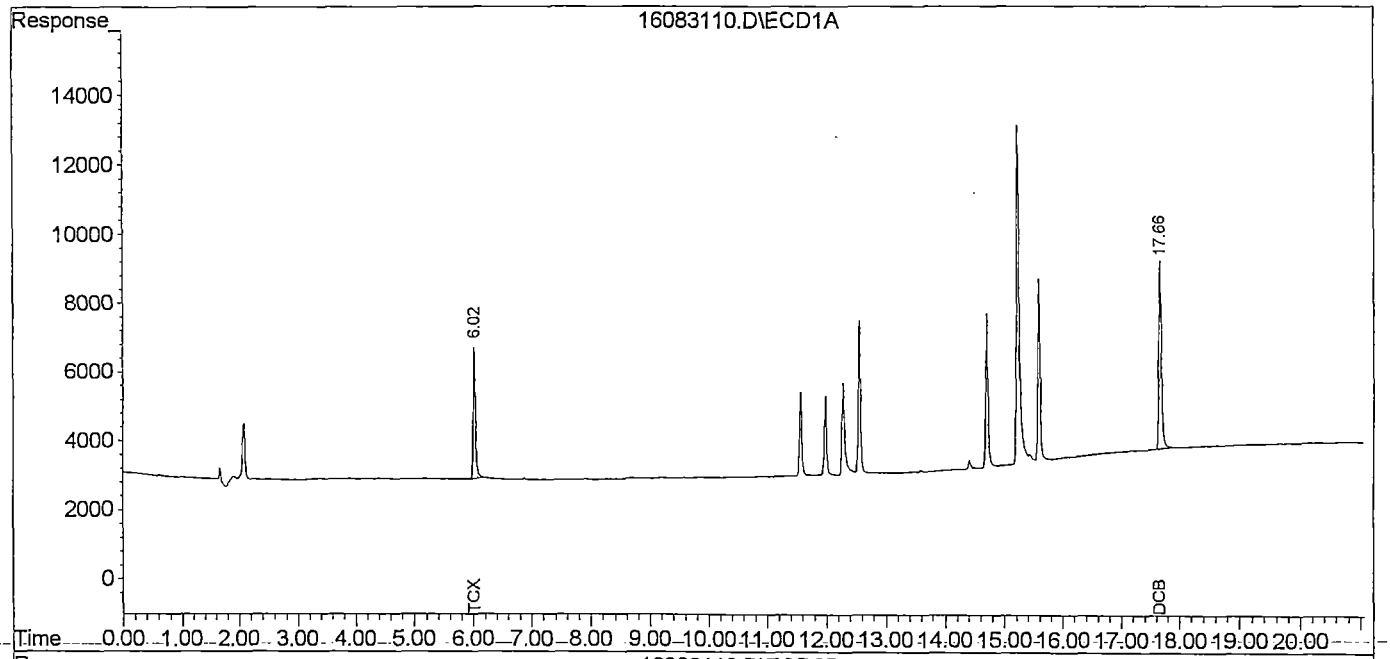
Chromatographic Report

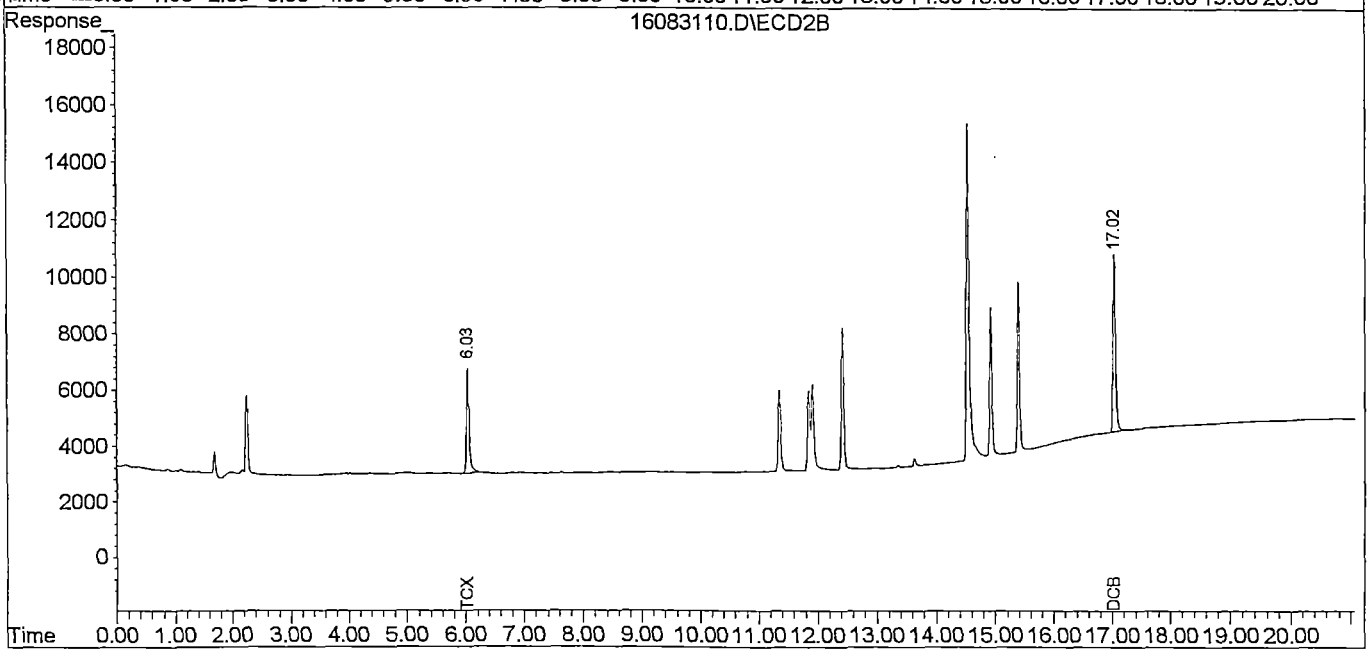
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083110.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083110.D\ECD2B.CH
Acq On : 31 Aug 2001 17:33 Operator: TLM
Sample : RESCCG ✓ Inst : HP_16
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:43 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ob 9-4-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083110.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083110.D\ECD2B.CH
Acq On : 31 Aug 2001 17:33 Operator: TLM
Sample : RESCCG Inst : HP_16
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:43 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	101165	117892	19.9	19.3
22)	S DCB	17.67	17.02	174500	190967	19.9	21.3
	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

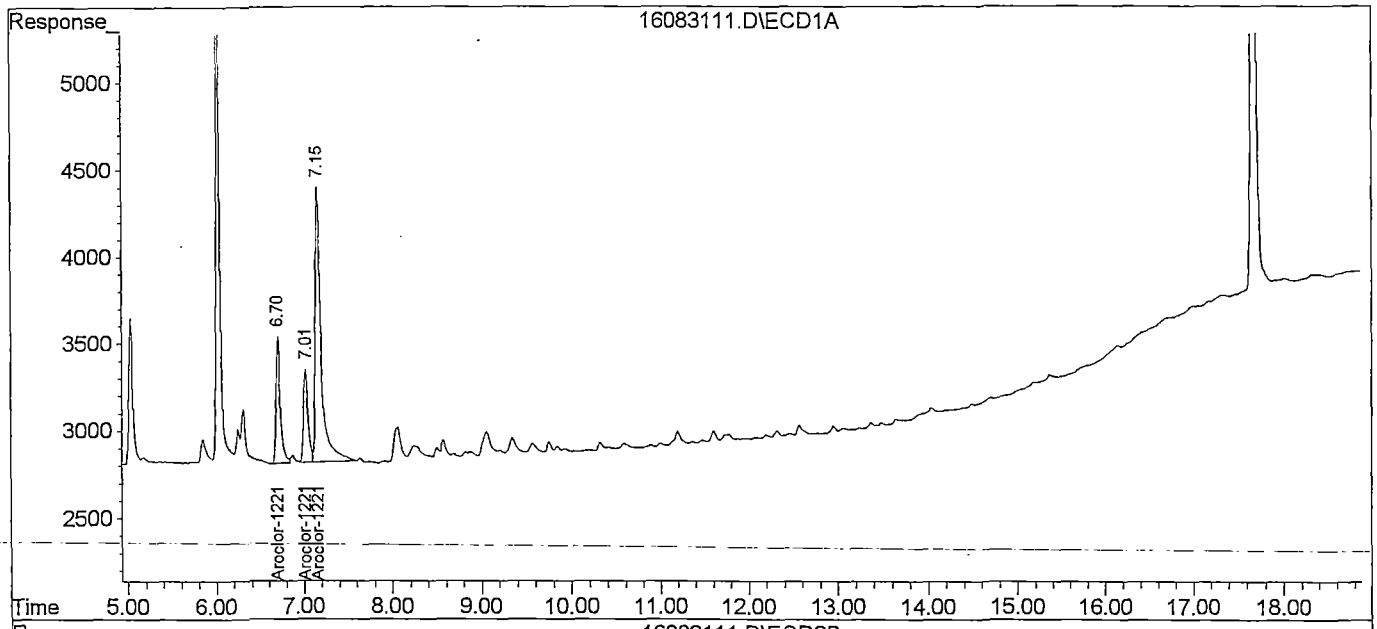
Chromatographic Report

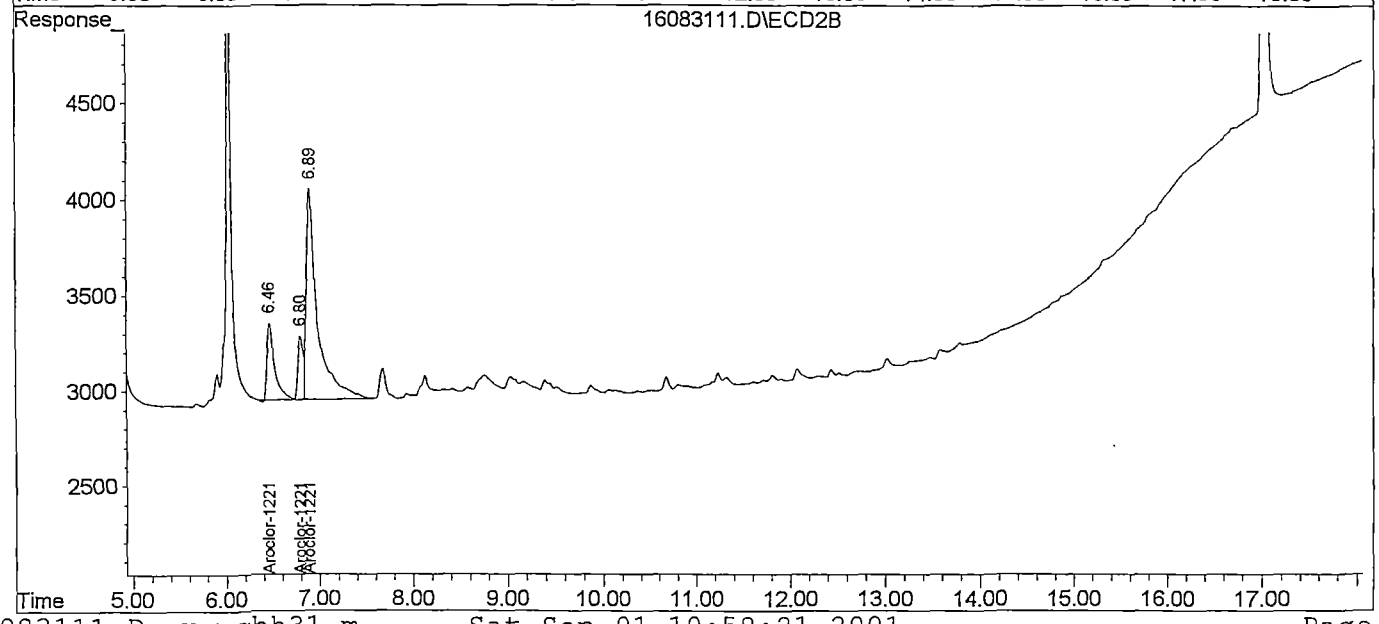
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083111.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083111.D\ECD2B.CH
Acq On : 31 Aug 2001 17:58 Operator: TLM
Sample : AR1221L3CG Inst : HP_16
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:57 2001 Quant Results File: xspcbh31.RES
Quant Time: Sep 1 10:57 2001 Quant Results File: xspcbh31.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001

Multi-Component Method : f:\hpchem\hp\16\data\08_31_01\xspcbh31.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 9-4-01





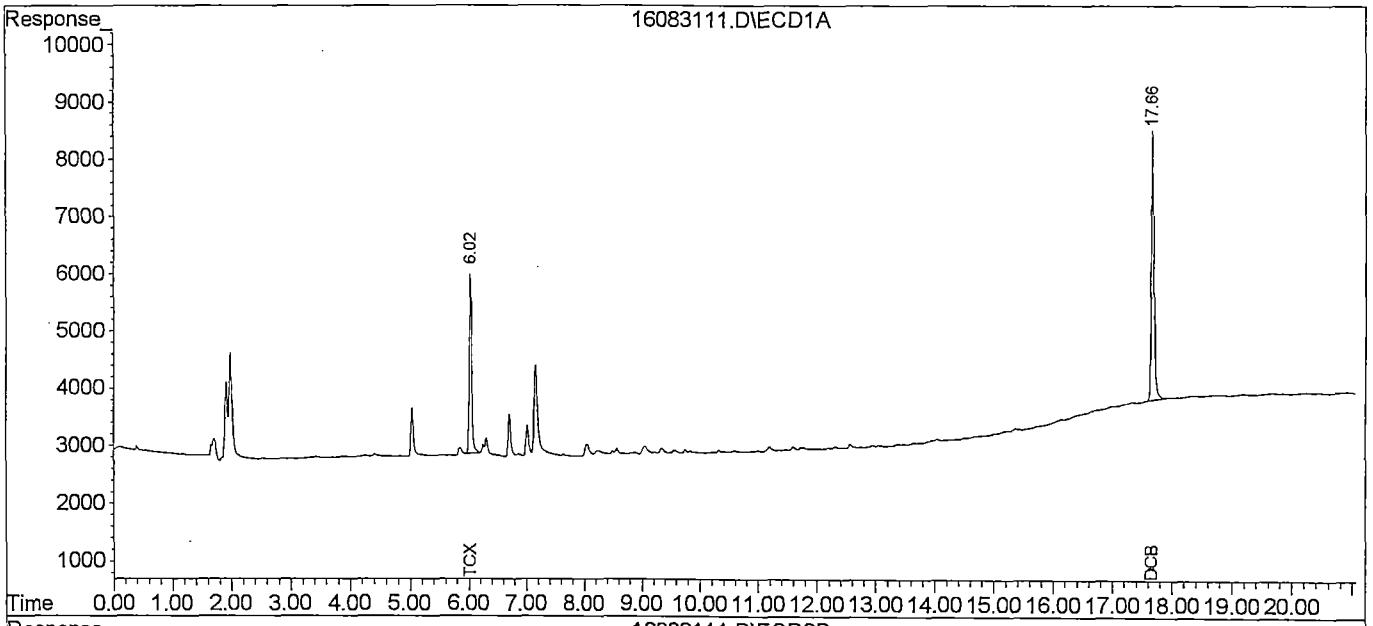
Chromatographic Report

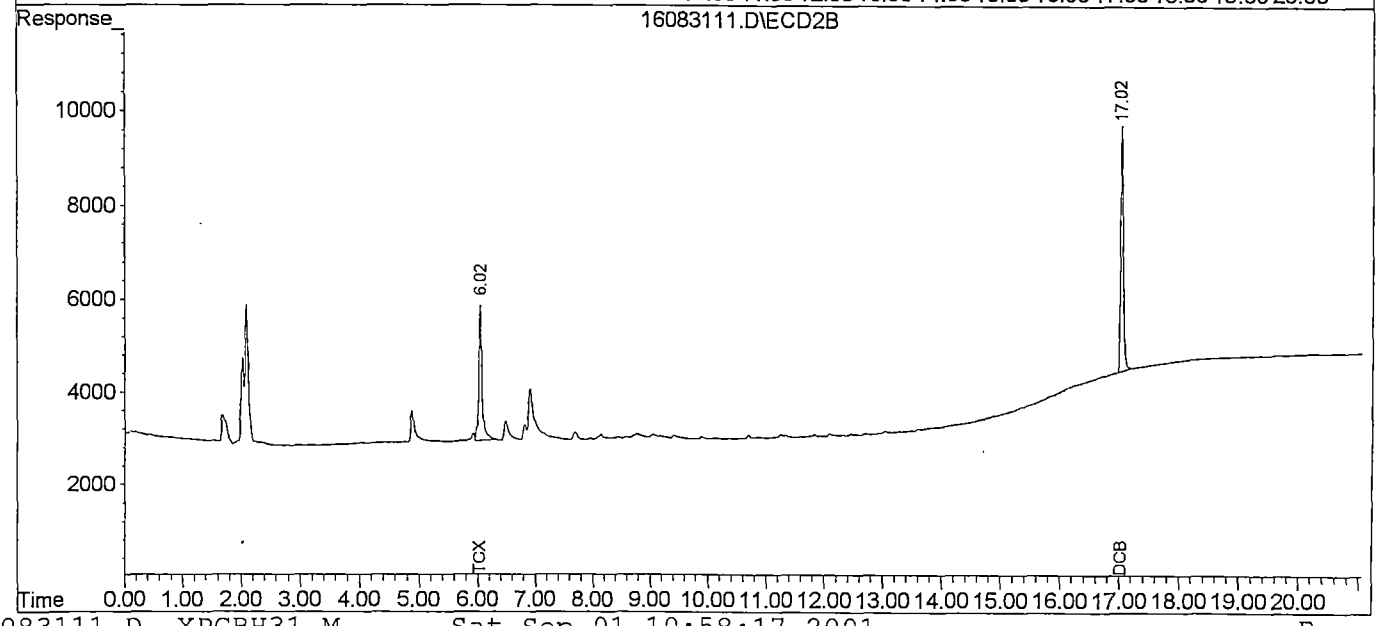
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083111.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083111.D\ECD2B.CH
Acq On : 31 Aug 2001 17:58 Operator: TLM
Sample : AR1221L3CG Inst : HP_16
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:43 2001 Quant Results File: XPCBH31.RES
Quant Time: Sep 1 10:57 2001 Quant Results File: xspcbh31.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001

Multi-Component Method : f:\hpchem\hp\16\data\08_31_01\xspcbh31.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

6/2
9-4-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083111.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083111.D\ECD2B.CH
Acq On : 31 Aug 2001 17:58 Operator: TLM
Sample : AR1221L3CG Inst : HP_16
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:43 2001 Quant Results File: XPCBH31.RES
Multi Time: Sep 1 10:57 2001 Quant Results File: xspcbh31.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001

Multi-Component Method : f:\hpchem\hp\16\data\08_31_01\xspcbh31.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	85734	109220	16.8	17.9
22)	S DCB	17.67	17.02	153319	159857	17.5	17.8
	Target Compounds:						
	Multi-Component Compounds:						
2)	L2 Aroclor-1221	6.70	6.46	24564	23484	400.0	400.0
3)	L2 Aroclor-1221 {2}	7.02	6.80	17967	12203	400.0	400.0
4)	L2 Aroclor-1221 {3}	7.15	6.90	74944	91195	400.0	400.0
	Sum Aroclor-1221			117476	126882	1200.0	1200.0
	Average Aroclor-1221					400.000	400.000

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

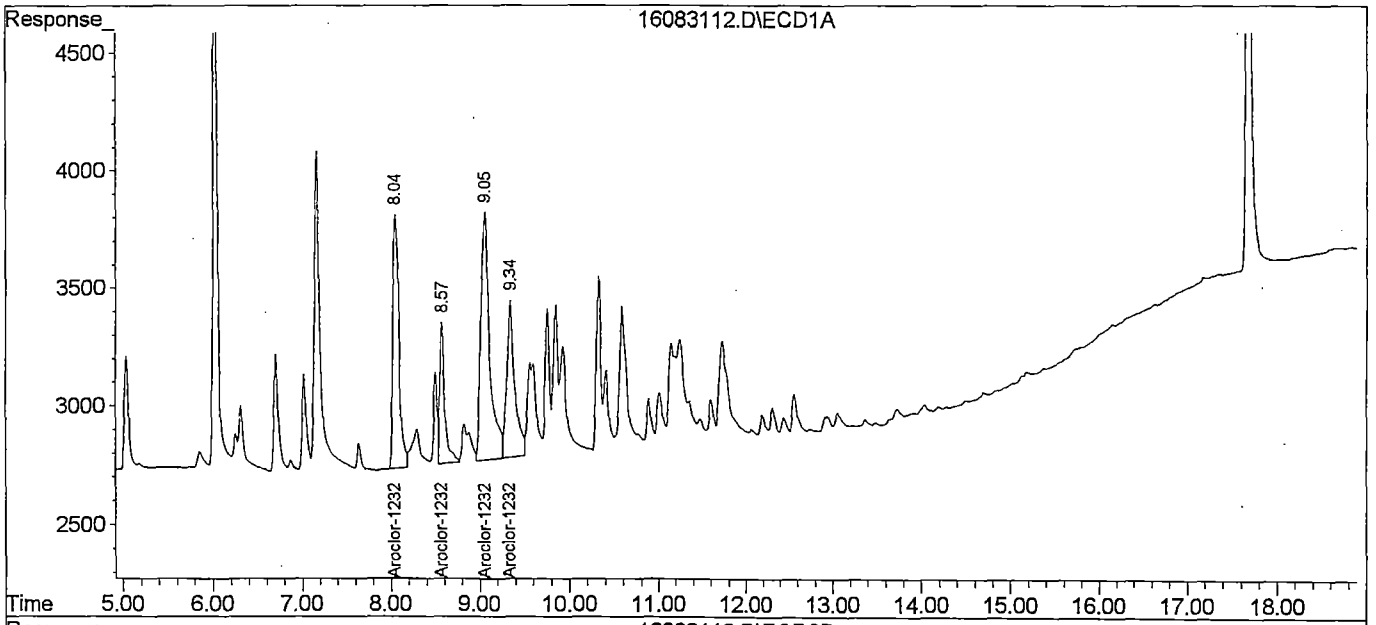
Chromatographic Report

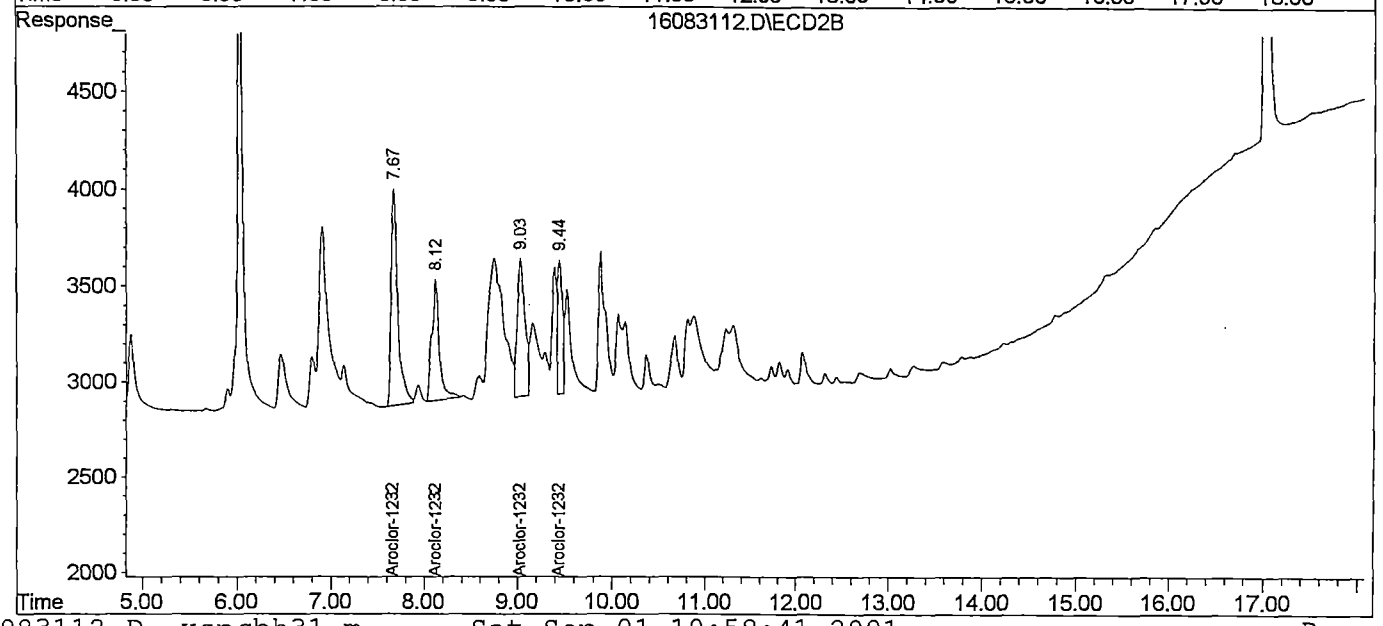
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083112.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083112.D\ECD2B.CH
Acq On : 31 Aug 2001 18:22 Operator: TLM
Sample : AR1232L3CG ✓ Inst : HP_16
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:57 2001 Quant Results File: xspcbh31.RES
Quant Time: Sep 1 10:57 2001 Quant Results File: xspcbh31.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001

Multi-Component Method : f:\hpchem\hp\16\data\08_31_01\xspcbh31.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 9-4-01





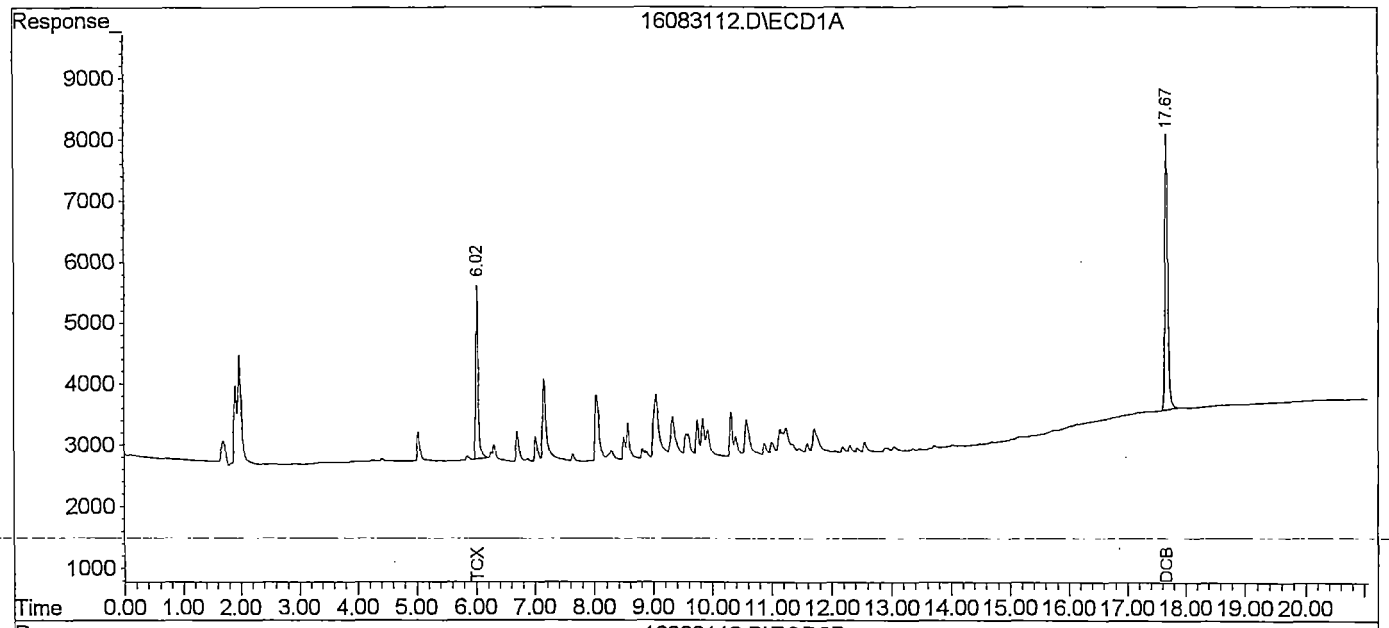
Chromatographic Report

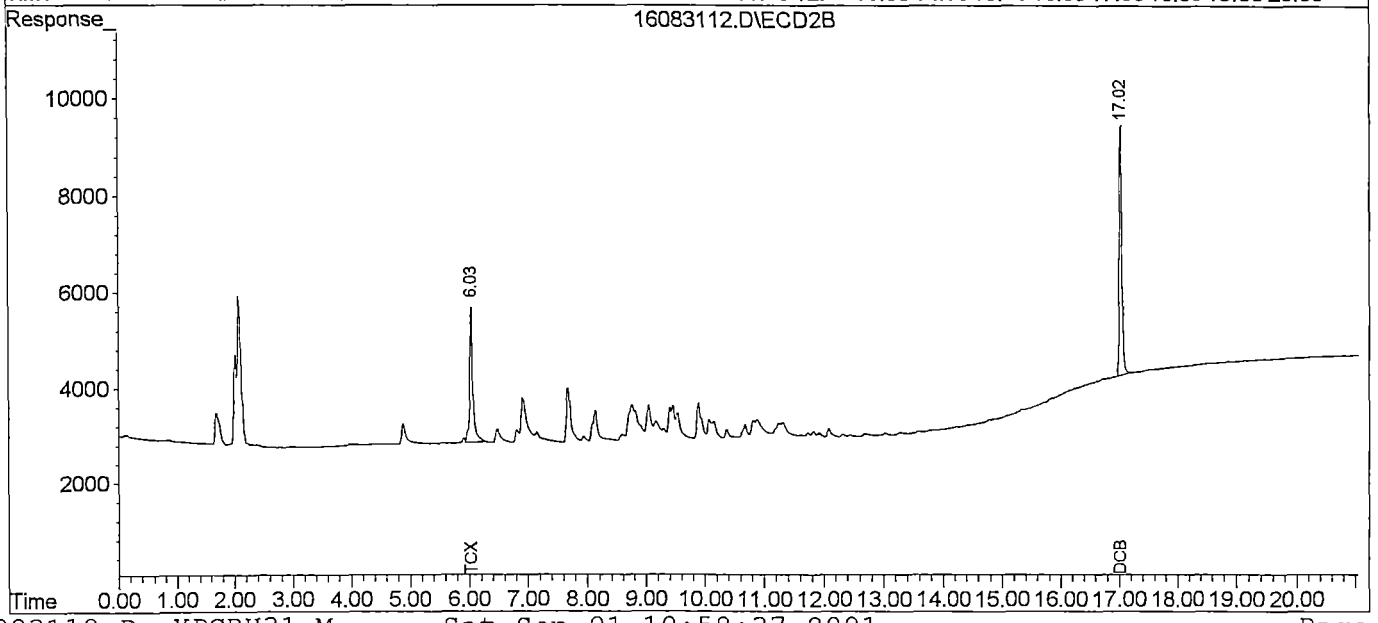
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083112.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083112.D\ECD2B.CH
Acq On : 31 Aug 2001 18:22 Operator: TLM
Sample : AR1232L3CG Inst : HP_16
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:43 2001 Quant Results File: XPCBH31.RES
Quant Time: Sep 1 10:57 2001 Quant Results File: xspcbh31.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001

Multi-Component Method : f:\hpchem\hp\16\data\08_31_01\xspcbh31.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 9-4-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083112.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083112.D\ECD2B.CH
Acq On : 31 Aug 2001 18:22 Operator: TLM
Sample : AR1232L3CG Inst : HP_16
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:43 2001 Quant Results File: XPCBH31.RES
Multi Time: Sep 1 10:57 2001 Quant Results File: xspcbh31.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001

Multi-Component Method : f:\hpchem\hp\16\data\08_31_01\xspcbh31.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	81223	106429	15.9	17.4
22)	S DCB	17.67	17.02	148620	158515	16.9	17.7
	Target Compounds:						
	Multi-Component Compounds:						
5)	L3 Aroclor-1232	8.04	7.67	51357	58080	400.0	400.0
6)	L3 Aroclor-1232 {2}	8.57	8.12	23049	34707	400.0	400.0
7)	L3 Aroclor-1232 {3}	9.05	9.03	73531	40579	400.0	400.0
8)	L3 Aroclor-1232 {4}	9.34	9.44	41806	25329	400.0	400.0
	Sum Aroclor-1232			189743	158695	1600.0	1600.0
	Average Aroclor-1232					400.000	400.000

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

Response Factor Report HP_16

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

ok 9-4-01

Calibration Files
L1 =16083113.D L2 =16083114.D L3 =16083115.D
L4 =16083116.D L5 =16083117.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
7) Aroclor-1242	166.6	183.1	209.6	198.2	168.0	185.1	10.15
8) Aroclor-1242 {2}	107.0	111.9	131.0	125.7	107.5	116.6	9.46
9) Aroclor-1242 {3}	56.8	61.2	72.2	69.0	56.6	63.2	11.24
10) Aroclor-1242 {4}	149.5	162.2	195.9	185.1	153.8	169.3	11.95
11) Aroclor-1242 {5}	41.4	48.2	60.3	64.4	58.1	54.5	17.24
Average %RSD							

Signal #2 Calibration Files
L1 =16083113.D L2 =16083114.D L3 =16083115.D
L4 =16083116.D L5 =16083117.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
30) Aroclor-1242 #2	179.6	185.3	191.2	183.2	162.2	180.3	6.08
31) Aroclor-1242 {2} #2	104.6	108.8	115.6	114.4	103.3	109.3	5.09
32) Aroclor-1242 {3} #2	121.1	125.8	128.3	121.3	104.1	120.1	7.86
33) Aroclor-1242 {4} #2	178.0	189.4	198.7	192.7	169.9	185.7	6.25
34) Aroclor-1242 {5} #2	47.3	72.3	72.5	81.1	76.8	70.0	18.85
Average %RSD							

(#) = Out of Range

XPCBH31.M Sat Sep 01 10:09:45 2001

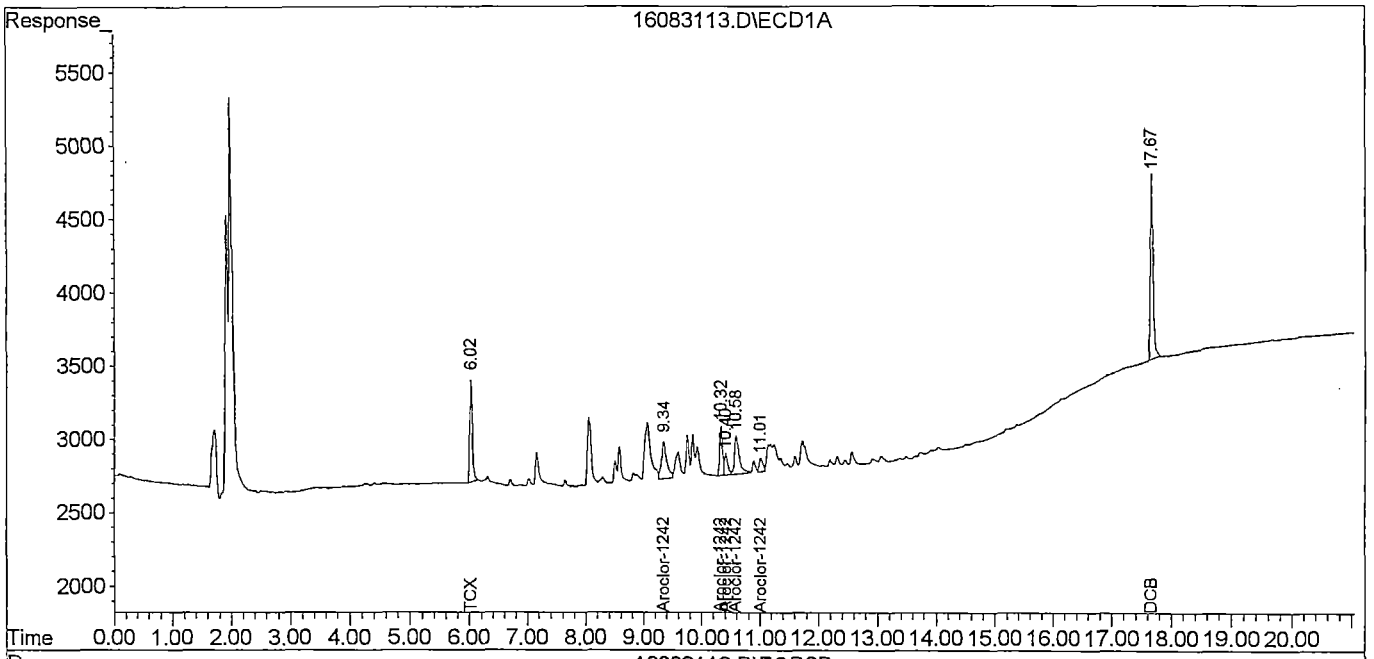
Chromatographic Report

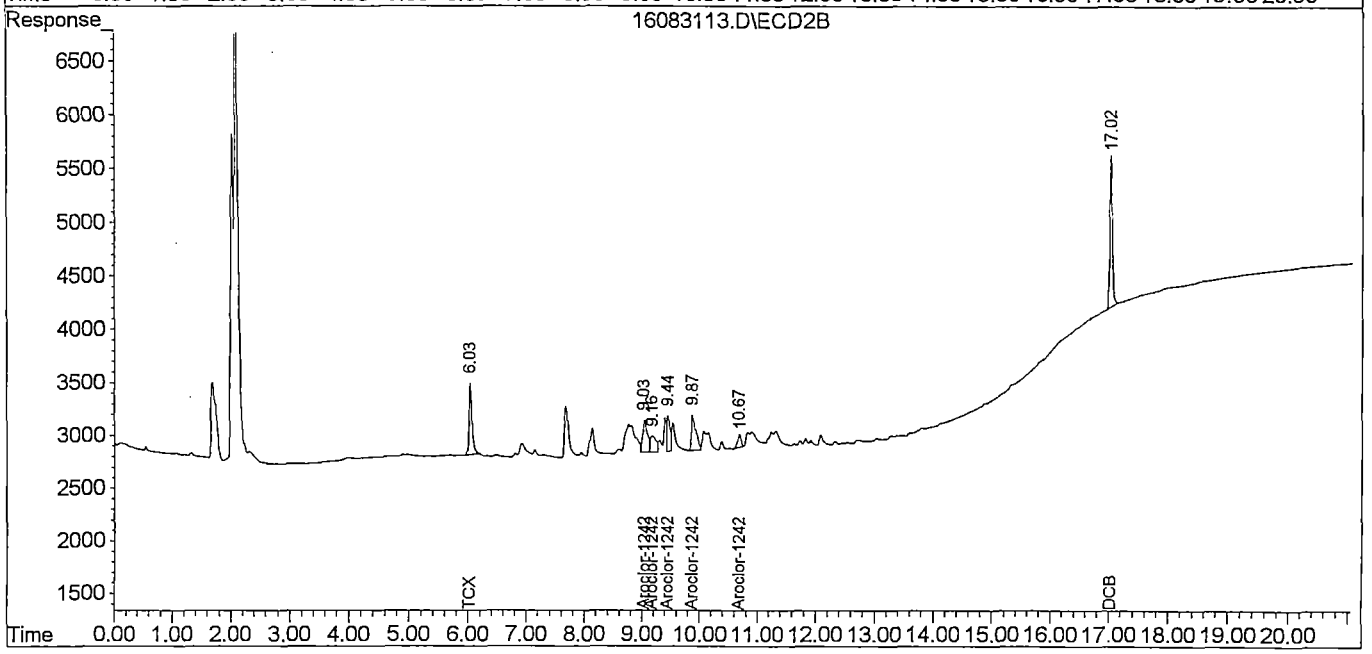
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083113.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083113.D\ECD2B.CH
Acq On : 31 Aug 2001 18:47 Operator: TLM
Sample : AR1242L1CG ✓ Inst : HP_16
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:08 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 9-4-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083113.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083113.D\ECD2B.CH
Acq On : 31 Aug 2001 18:47 Operator: TLM
Sample : AR1242L1CG Inst : HP_16
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:08 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	20611	23456	4.220	4.107
22)	S DCB	17.67	17.02	40678	42288	4.834	4.898
	Target Compounds:						
7)	L4 Aroclor-1242	9.34	9.03	16664	17957	90.0	99.6
8)	L4 Aroclor-1242 {2}	10.32	9.17	10698	10464	91.7	95.7
9)	L4 Aroclor-1242 {3}	10.41	9.44	5684	12105	90.0	100.8
10)	L4 Aroclor-1242 {4}	10.58	9.88	14955	17802	88.3	95.9
11)	L4 Aroclor-1242 {5}	11.02	10.67	4145	4730	76.1	67.6
	Sum Aroclor-1242			52145	63058	436.1	459.5
	Average Aroclor-1242					87.224	91.901

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

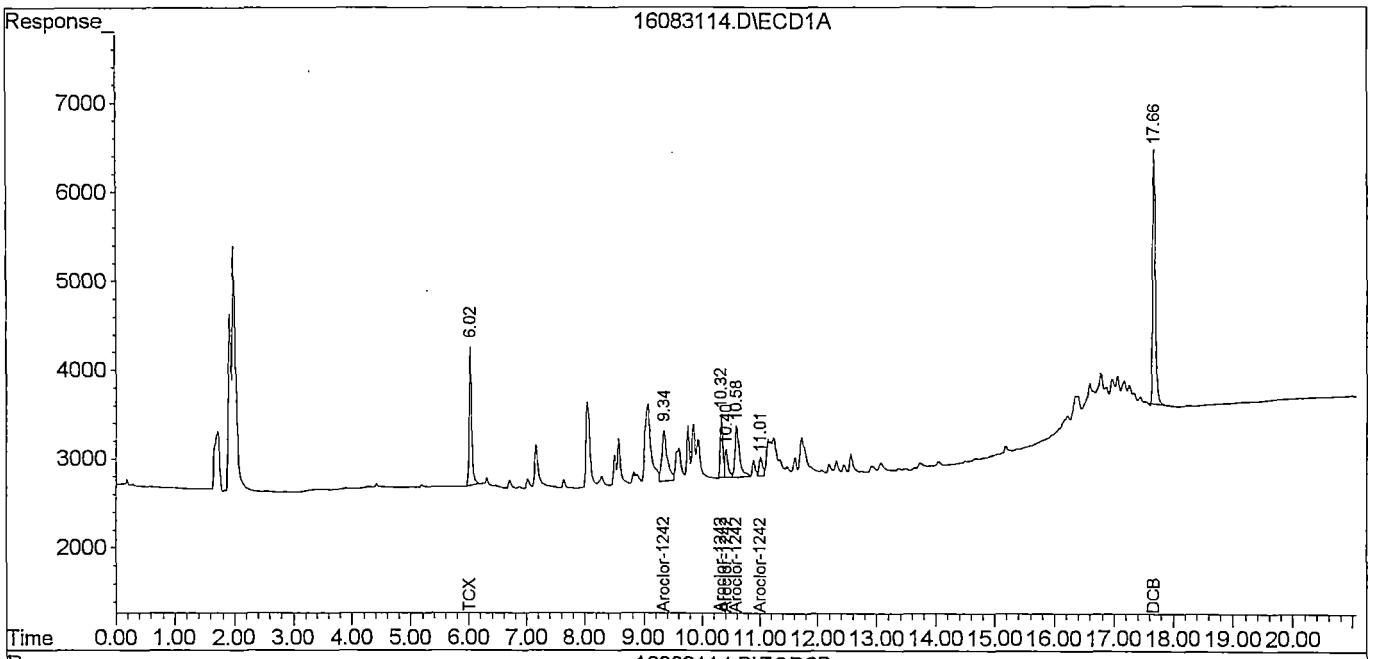
Chromatographic Report

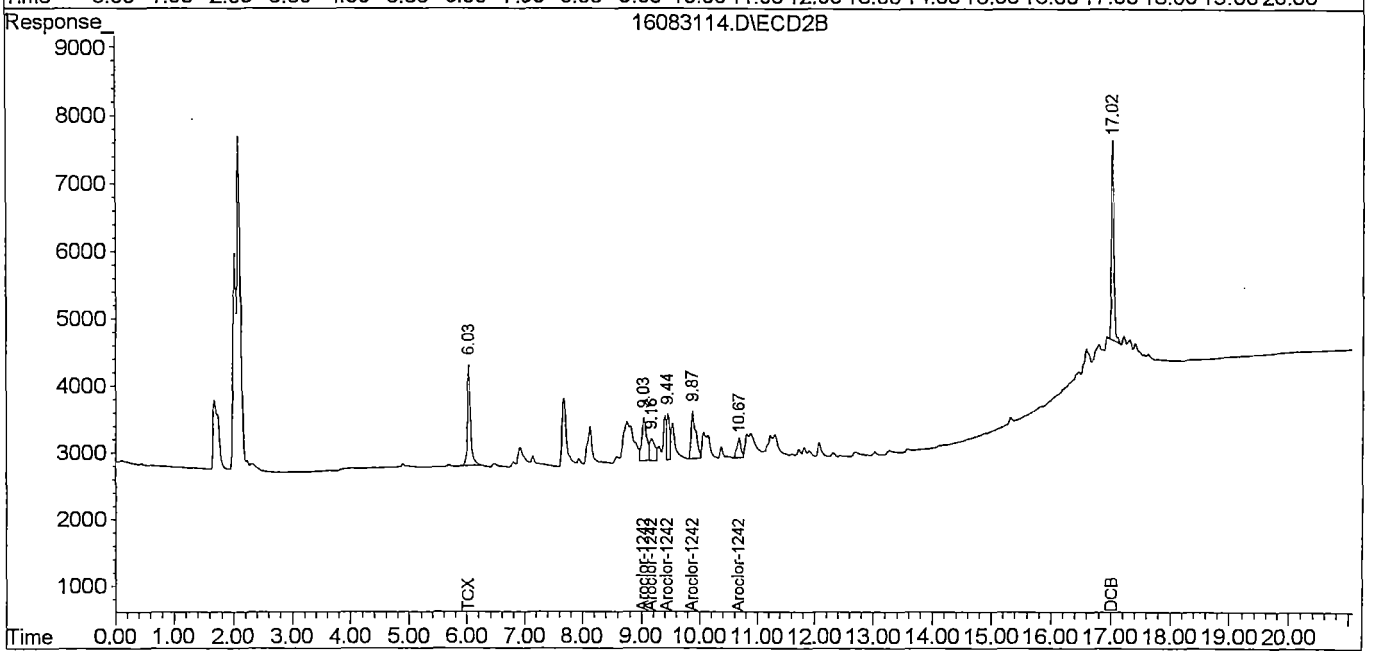
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083114.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083114.D\ECD2B.CH
Acq On : 31 Aug 2001 19:11 Operator: TLM
Sample : AR1242L2CG ✓ Inst : HP_16
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:08 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

ok 9-4-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083114.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083114.D\ECD2B.CH
Acq On : 31 Aug 2001 19:11 Operator: TLM
Sample : AR1242L2CG Inst : HP_16
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:08 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	45294	54159	9.273	9.483
22)	S DCB	17.67	17.02	88128	86901	10.5	10.1
	Target Compounds:						
7)	L4 Aroclor-1242	9.34	9.03	36618	37052	197.8	205.5
8)	L4 Aroclor-1242 {2}	10.32	9.16	22389	21756	192.0	199.0
9)	L4 Aroclor-1242 {3}	10.41	9.44	12248	25158	193.9	209.4
10)	L4 Aroclor-1242 {4}	10.58	9.87	32446	37871	191.6	203.9
11)	L4 Aroclor-1242 {5}	11.01	10.67	9649	14457	177.1	206.5
	Sum Aroclor-1242			113350	136293	952.4	1024.4
	Average Aroclor-1242					190.483	204.876

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

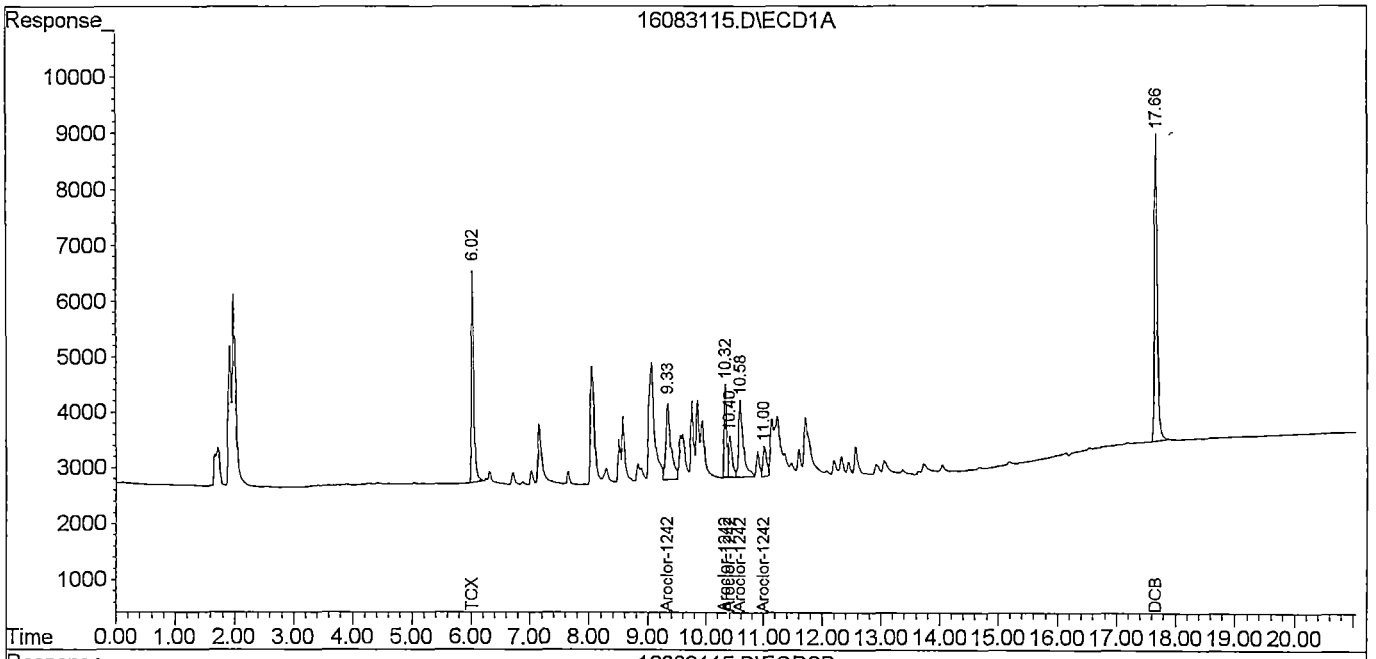
Chromatographic Report

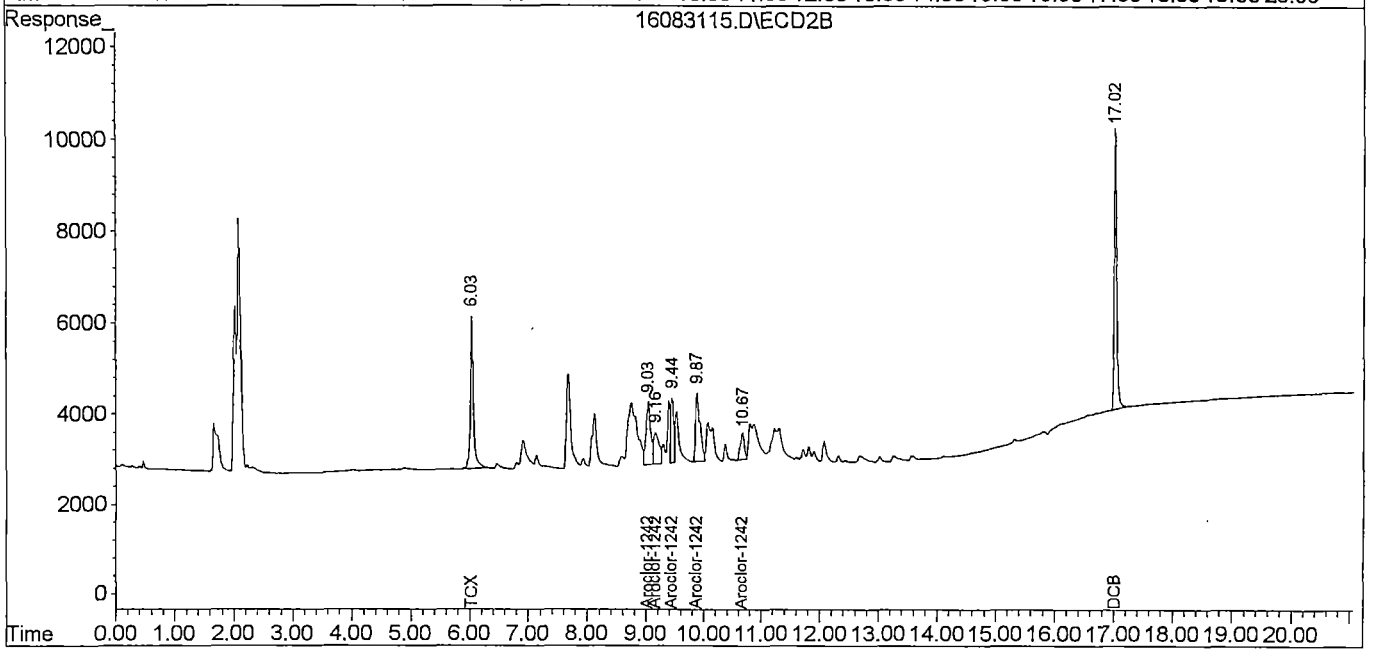
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083115.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083115.D\ECD2B.CH
Acq On : 31 Aug 2001 19:36 Operator: TLM
Sample : AR1242L3CG Inst : HP_16
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:09 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 9-4-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083115.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083115.D\ECD2B.CH
Acq On : 31 Aug 2001 19:36 Operator: TLM
Sample : AR1242L3CG Inst : HP_16
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:09 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	108672	122899	22.2	21.5
22)	S DCB	17.67	17.02	184021	188403	21.9	21.8
	Target Compounds:						
7)	L4 Aroclor-1242	9.34	9.03	83838	76475	452.9	424.2
8)	L4 Aroclor-1242 {2}	10.32	9.16	52389	46238	449.3	422.9
9)	L4 Aroclor-1242 {3}	10.40	9.44	28881	51314	457.1	427.2
10)	L4 Aroclor-1242 {4}	10.58	9.87	78360	79467	462.8	427.9
11)	L4 Aroclor-1242 {5}	11.01	10.67	24109	28999	442.5	414.3
	Sum Aroclor-1242			267577	282493	2264.6	2116.4
	Average Aroclor-1242					452.921	423.288

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

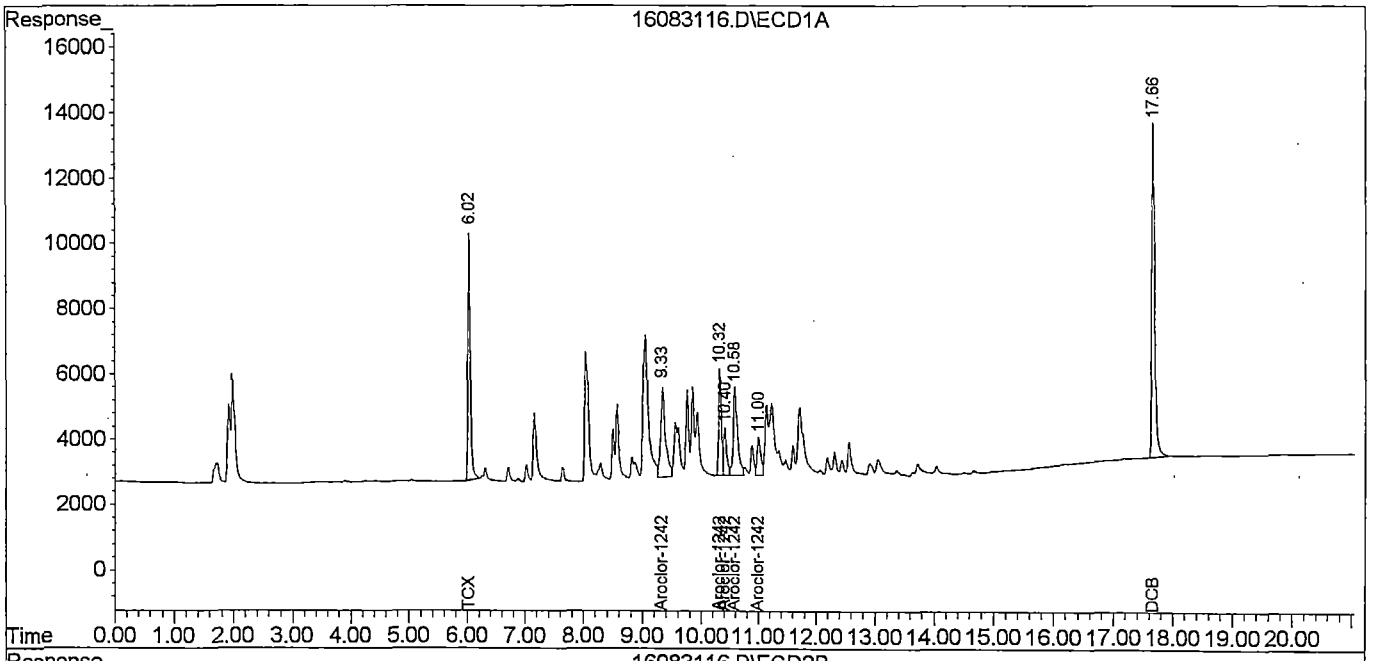
Chromatographic Report

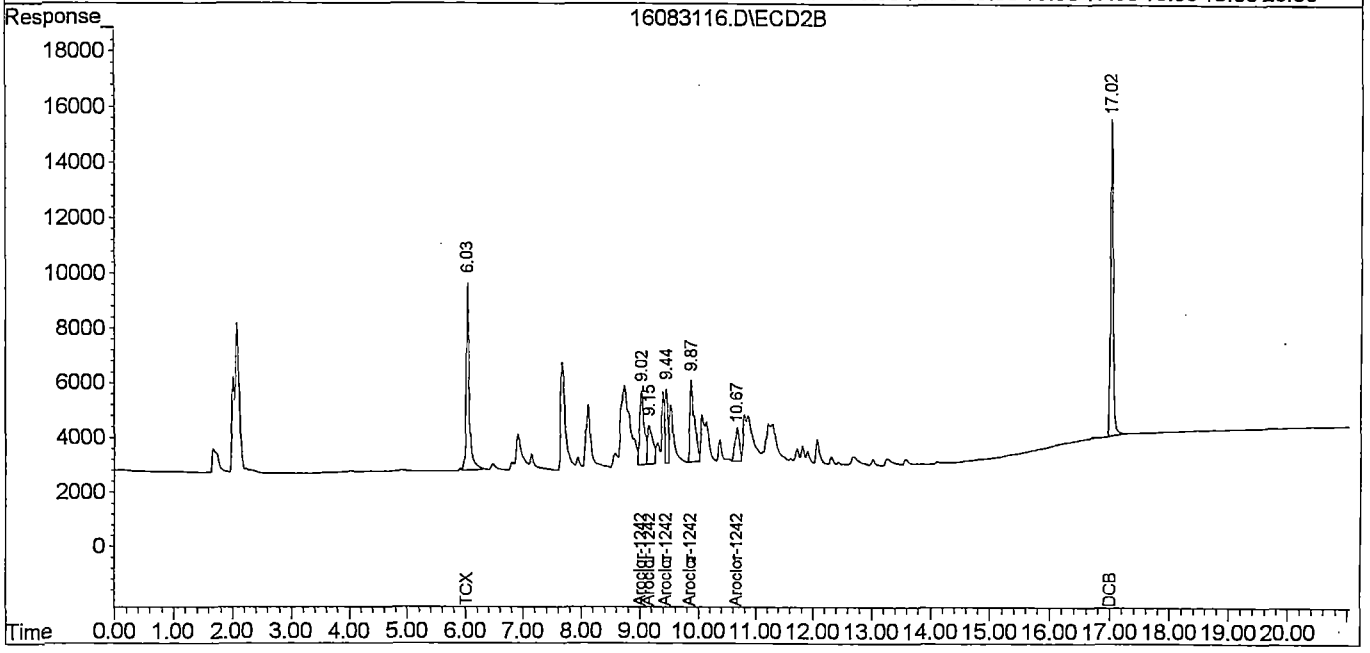
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083116.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083116.D\ECD2B.CH
Acq On : 31 Aug 2001 20:00 Operator: TLM
Sample : AR1242L4CG ✓ Inst : HP_16
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:09 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

ok 9-9-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083116.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083116.D\ECD2B.CH
Acq On : 31 Aug 2001 20:00 Operator: TLM
Sample : AR1242L4CG Inst : HP_16
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:09 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	216162	251958	44.3	44.1
22)	S DCB	17.67	17.02	348017	358091	41.4	41.5
	Target Compounds:						
7)	L4 Aroclor-1242	9.33	9.03	158595	146568	856.8	813.0
8)	L4 Aroclor-1242 {2}	10.32	9.16	100563	91512	862.4	837.0
9)	L4 Aroclor-1242 {3}	10.40	9.44	55176	97062	873.3	808.1
10)	L4 Aroclor-1242 {4}	10.58	9.87	148072	154149	874.5	830.0
11)	L4 Aroclor-1242 {5}	11.00	10.67	51492	64866	945.1	926.7
	Sum Aroclor-1242			513897	554156	4412.1	4214.7
	Average Aroclor-1242					882.418	842.937

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

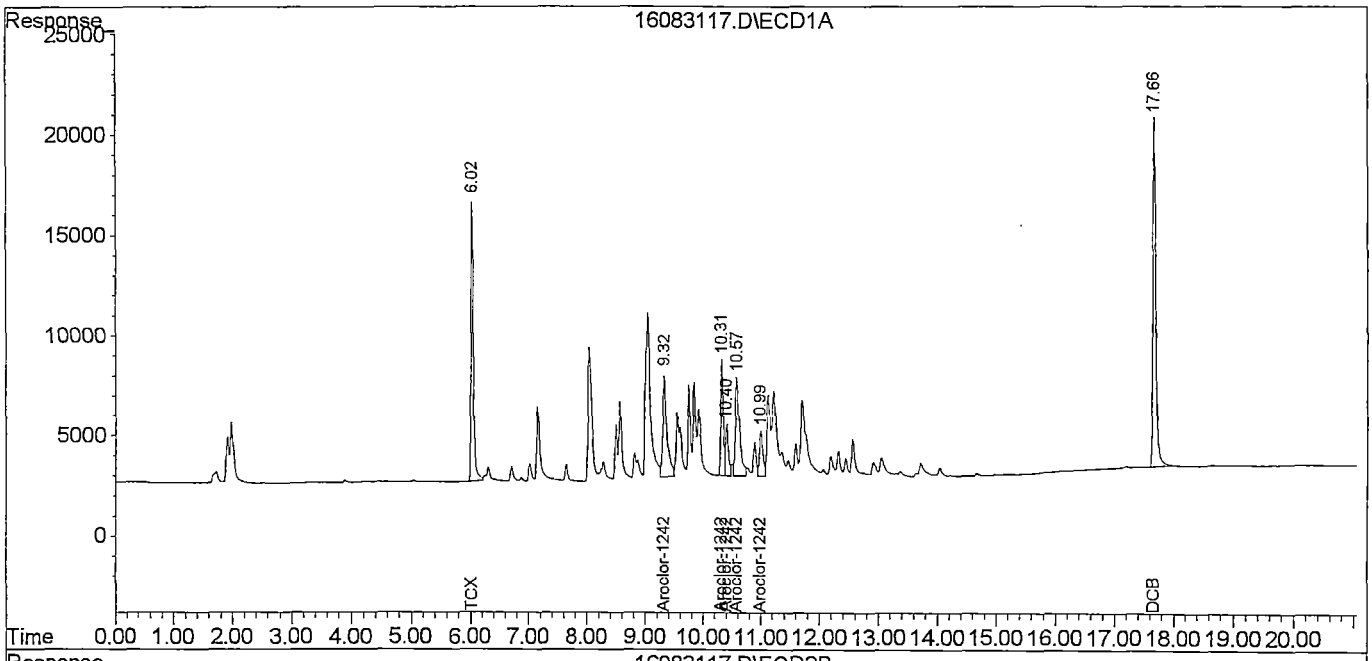
Chromatographic Report

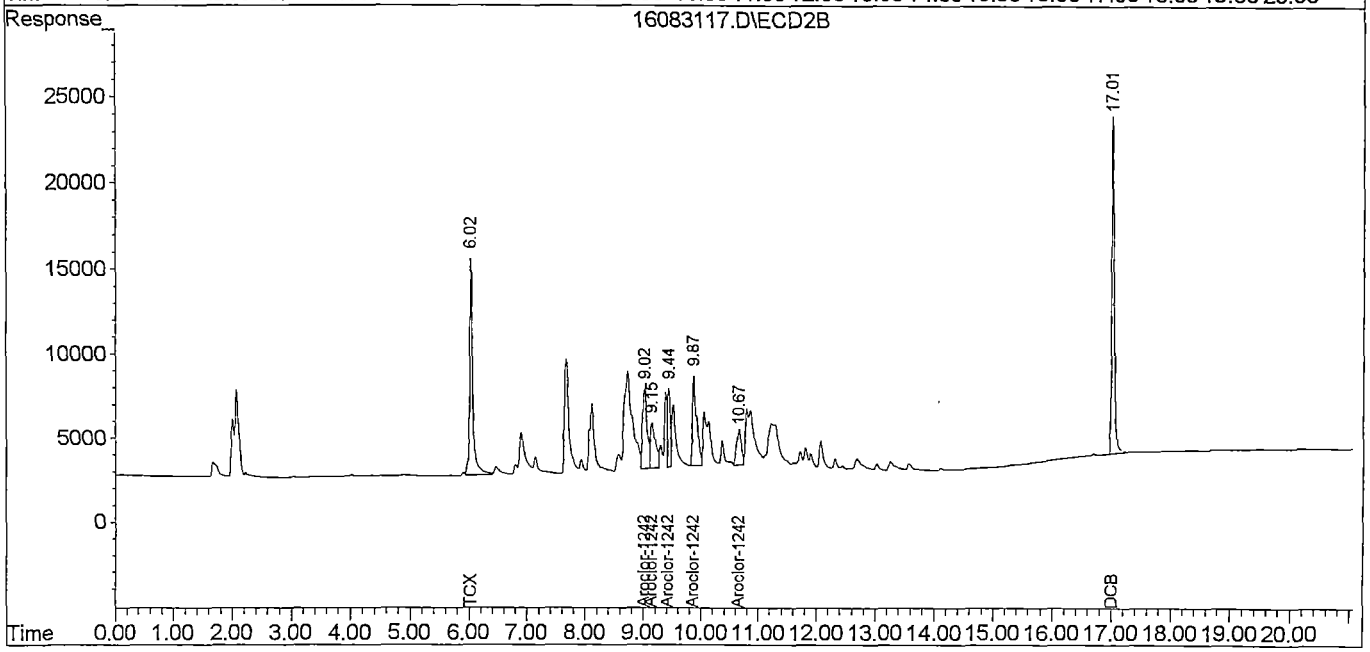
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083117.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083117.D\ECD2B.CH
Acq On : 31 Aug 2001 20:25 Operator: TLM
Sample : AR1242L5CG ✓ Inst : HP_16
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:09 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

ok 9-4-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083117.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083117.D\ECD2B.CH
Acq On : 31 Aug 2001 20:25 Operator: TLM
Sample : AR1242L5CG Inst : HP_16
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:09 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	394613	480503	80.8	84.1 E
22)	S DCB	17.66	17.02	578177	612191	68.7	70.9
	Target Compounds:						
7)	L4 Aroclor-1242	9.32	9.02	268726	259516	1451.8	1439.5 E
8)	L4 Aroclor-1242 {2}	10.32	9.15	171947	165254	1474.5 E	1511.4 E
9)	L4 Aroclor-1242 {3}	10.40	9.44	90636	166604	1434.6 E	1387.0
10)	L4 Aroclor-1242 {4}	10.58	9.87	246097	271832	1453.5	1463.6 E
11)	L4 Aroclor-1242 {5}	10.99	10.67	92938	122929	1705.8 E	1756.2 E
	Sum Aroclor-1242			870344	986136	7520.1	7557.7
	Average Aroclor-1242					1504.026	1511.546

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

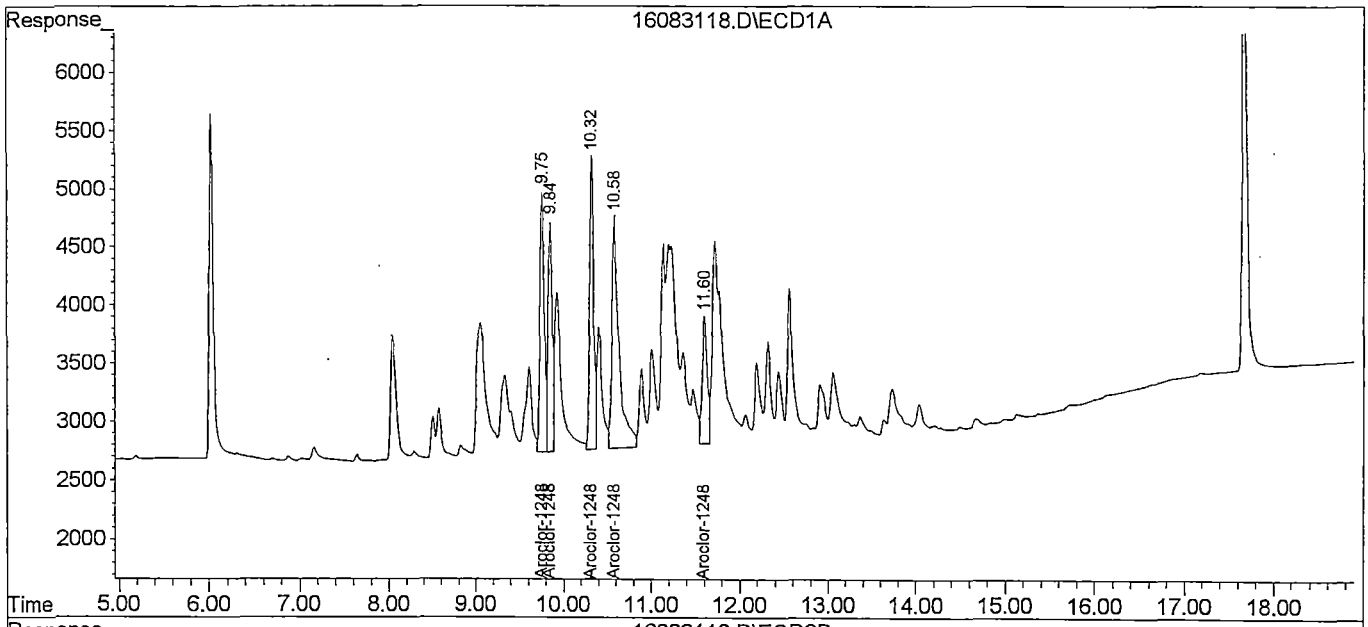
Chromatographic Report

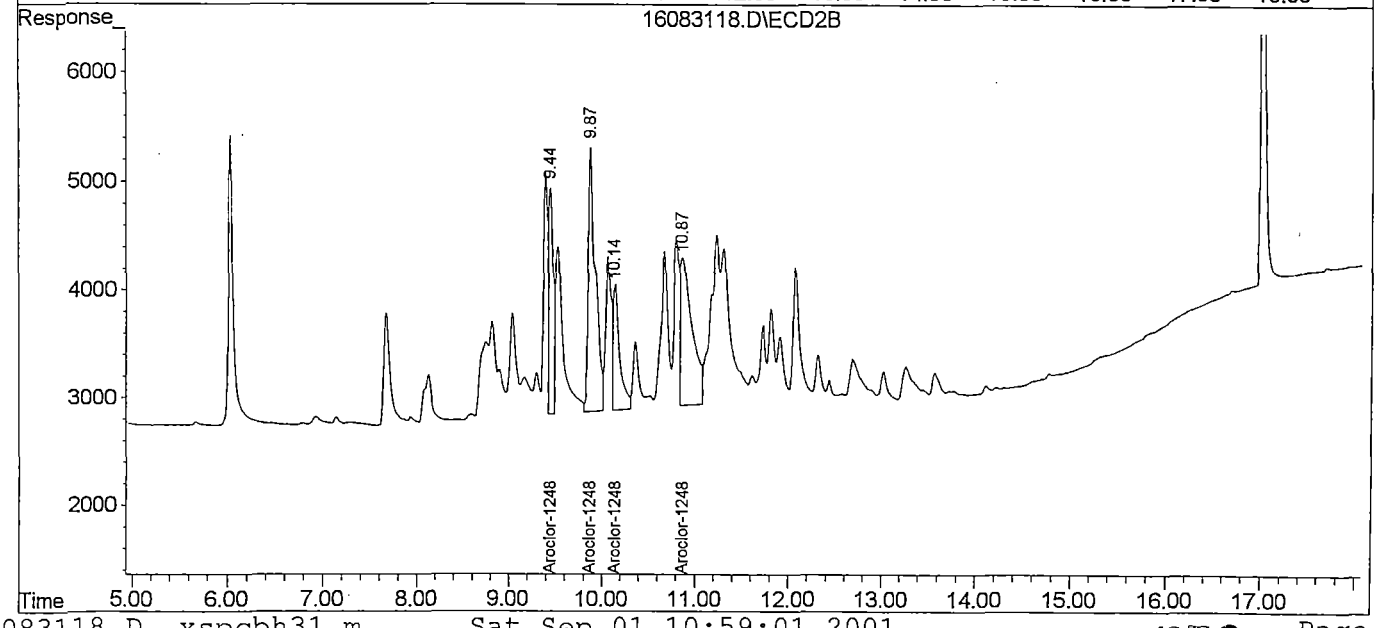
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083118.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083118.D\ECD2B.CH
Acq On : 31 Aug 2001 20:50 Operator: TLM
Sample : AR1248L3CG✓ Inst : HP_16
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:57 2001 Quant Results File: xspcbh31.RES
Quant Time: Sep 1 10:57 2001 Quant Results File: xspcbh31.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001

Multi-Component Method : f:\hpchem\hp\16\data\08_31_01\xspcbh31.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 9-4-01





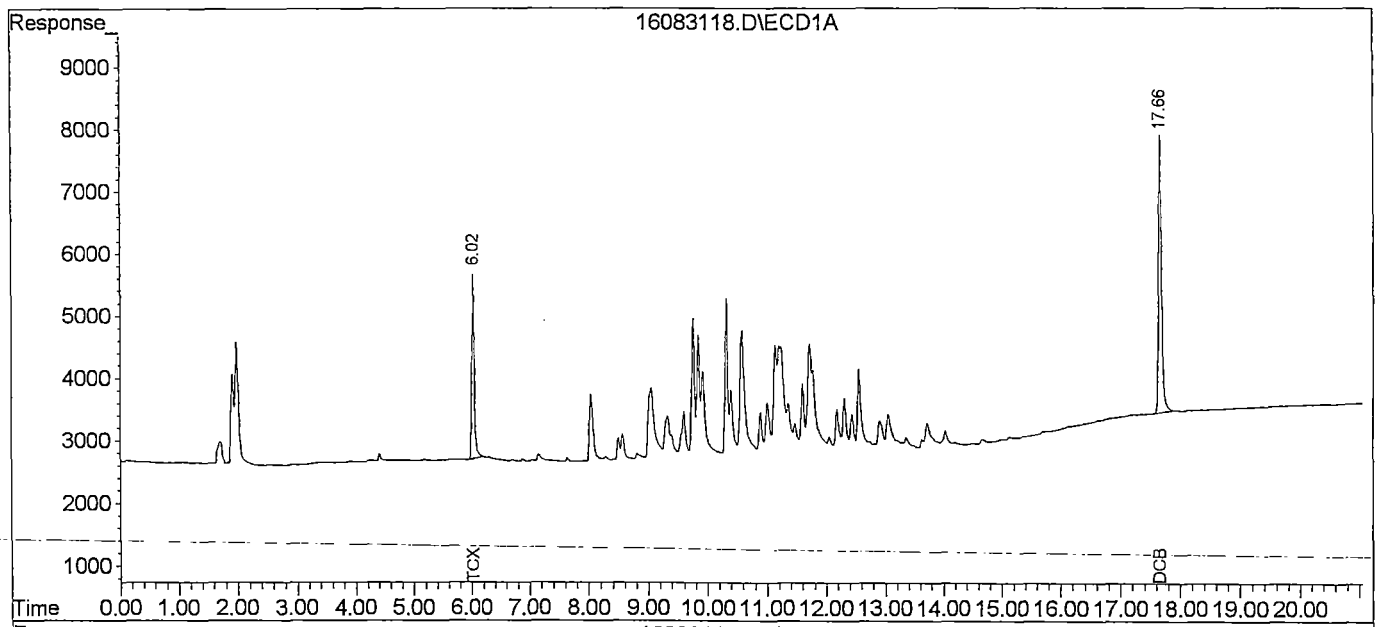
Chromatographic Report

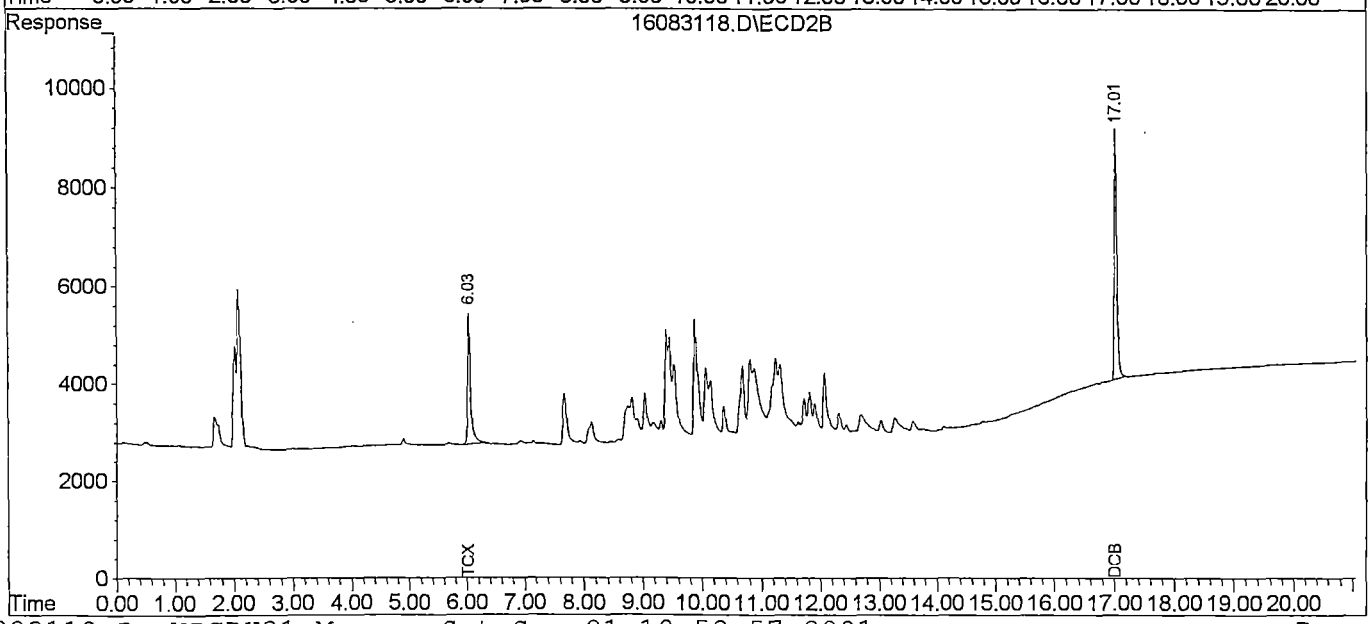
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083118.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083118.D\ECD2B.CH
Acq On : 31 Aug 2001 20:50 Operator: TLM
Sample : AR1248L3CG Inst : HP_16
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:43 2001 Quant Results File: XPCBH31.RES
Quant Time: Sep 1 10:57 2001 Quant Results File: xspcbh31.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001

Multi-Component Method : f:\hpchem\hp\16\data\08_31_01\xspcbh31.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 9-4-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083118.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083118.D\ECD2B.CH
Acq On : 31 Aug 2001 20:50 Operator: TLM
Sample : AR1248L3CG Inst : HP_16
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:43 2001 Quant Results File: XPCBH31.RES
Multi Time: Sep 1 10:57 2001 Quant Results File: xspcbh31.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001

Multi-Component Method : f:\hpchem\hp\16\data\08_31_01\xspcbh31.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	86085	96510	16.9	15.8
22)	S DCB	17.66	17.02	151659	156816	17.3	17.5
	Target Compounds:						
	Multi-Component Compounds:						
14)	L5 Aroclor-1248	9.75	9.44	71692	74004	400.0	400.0
15)	L5 Aroclor-1248 {2}	9.84	9.44	66968	74004	400.0	400.0
16)	L5 Aroclor-1248 {3}	10.32	9.87	81258	130851	400.0	400.0
17)	L5 Aroclor-1248 {4}	10.58	10.14	112253	60728	400.0	400.0
18)	L5 Aroclor-1248 {5}	11.60	10.87	42312	118409	400.0	400.0
	Sum Aroclor-1248			374483	457996	2000.0	2000.0
	Average Aroclor-1248					400.000	400.000

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

Response Factor Report HP_16

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

ok
9-4-01

Calibration Files
L1 =16083119.D L2 =16083120.D L3 =16083121.D
L4 =16083122.D L5 =16083123.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
12) Aroclor-1254	297.8	329.1	314.2	273.0	232.4	289.3	13.13
13) Aroclor-1254 {2}	176.0	208.8	217.5	196.5	175.0	194.7	9.81
14) Aroclor-1254 {3}	384.0	456.7	463.6	414.3	364.9	416.7	10.42
15) Aroclor-1254 {4}	175.5	236.3	240.5	214.4	185.8	210.5	13.89
16) Aroclor-1254 {5}	157.4	242.8	268.7	242.6	212.5	224.8	18.96
Average %RSD							

Signal #2 Calibration Files
L1 =16083119.D L2 =16083120.D L3 =16083121.D
L4 =16083122.D L5 =16083123.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
35) Aroclor-1254 #2	455.3	465.9	430.8	397.3	368.4	423.5	9.58
36) Aroclor-1254 {2} #2	184.9	206.0	198.1	184.2	152.7	185.2	10.99
37) Aroclor-1254 {3} #2	196.6	245.5	253.5	246.4	240.9	236.6	9.64
38) Aroclor-1254 {4} #2	340.5	373.9	348.1	318.7	288.0	333.8	9.69
39) Aroclor-1254 {5} #2	372.0	433.2	404.6	375.6	351.9	387.5	8.18
Average %RSD							

(#) = Out of Range

XPCBH31.M Sat Sep 01 10:15:40 2001

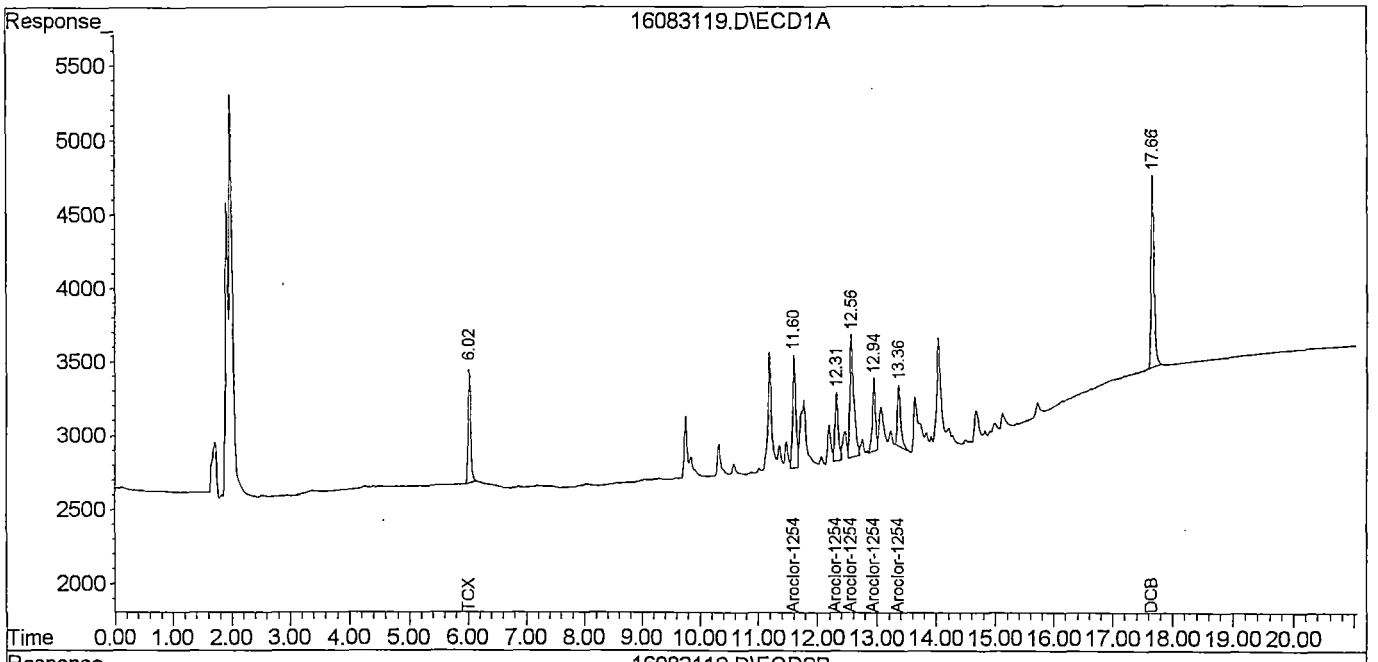
Chromatographic Report

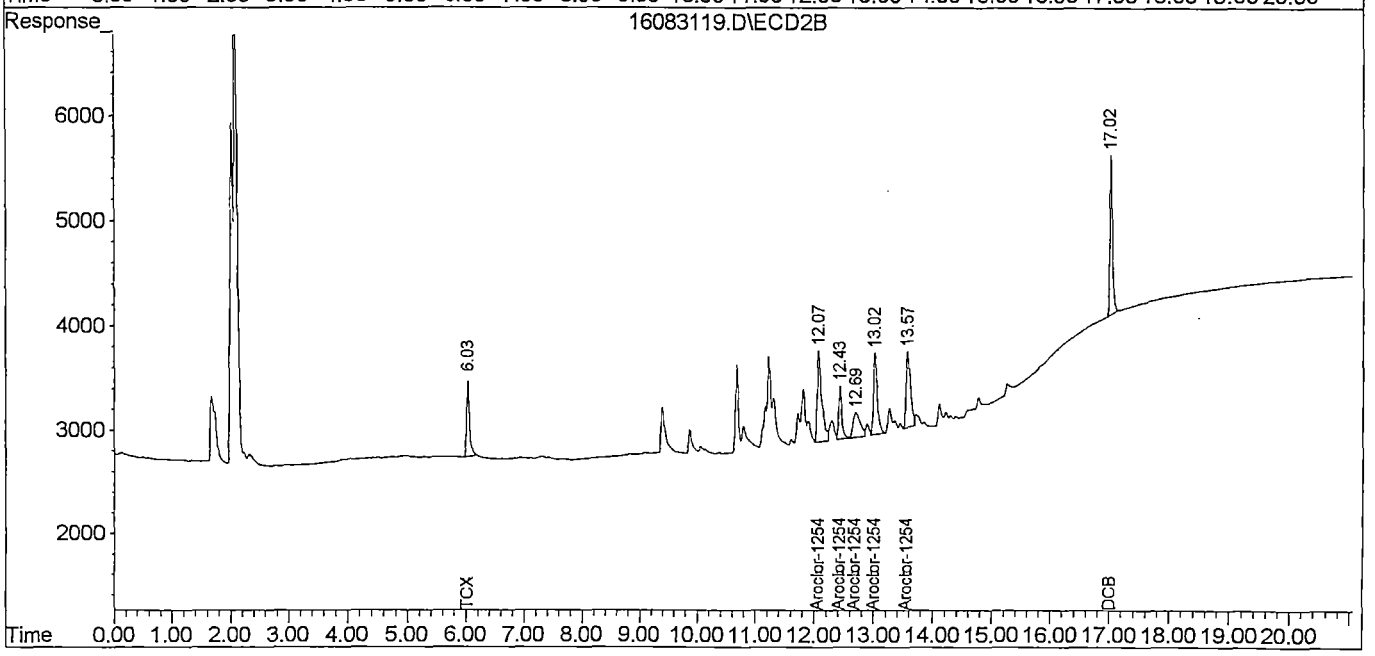
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083119.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083119.D\ECD2B.CH
Acq On : 31 Aug 2001 21:14 Operator: TLM
Sample : AR1254L1CG Inst : HP_16
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:11 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

ok
9-4-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083119.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083119.D\ECD2B.CH
Acq On : 31 Aug 2001 21:14 Operator: TLM
Sample : AR1254L1CG Inst : HP_16
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:11 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	6.02	6.03	22412	25100	4.589	4.395	
22)	S DCB	17.66	17.02	43832	46223	5.209	5.353	
	Target Compounds:							
12)	L6 Aroclor-1254	11.60	12.07	29777	45531	102.9	107.5	
13)	L6 Aroclor-1254 {2}	12.32	12.43	17597	18494	90.4	99.9	
14)	L6 Aroclor-1254 {3}	12.56	12.69	38404	19660	92.2	83.1	
15)	L6 Aroclor-1254 {4}	12.94	13.02	17546	34053	83.4	102.0	
16)	L6 Aroclor-1254 {5}	13.36	13.57	15736	37203	70.0	96.0	#
	Sum Aroclor-1254			119060	154940	438.8	488.5	
	Average Aroclor-1254					87.760	97.699	

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

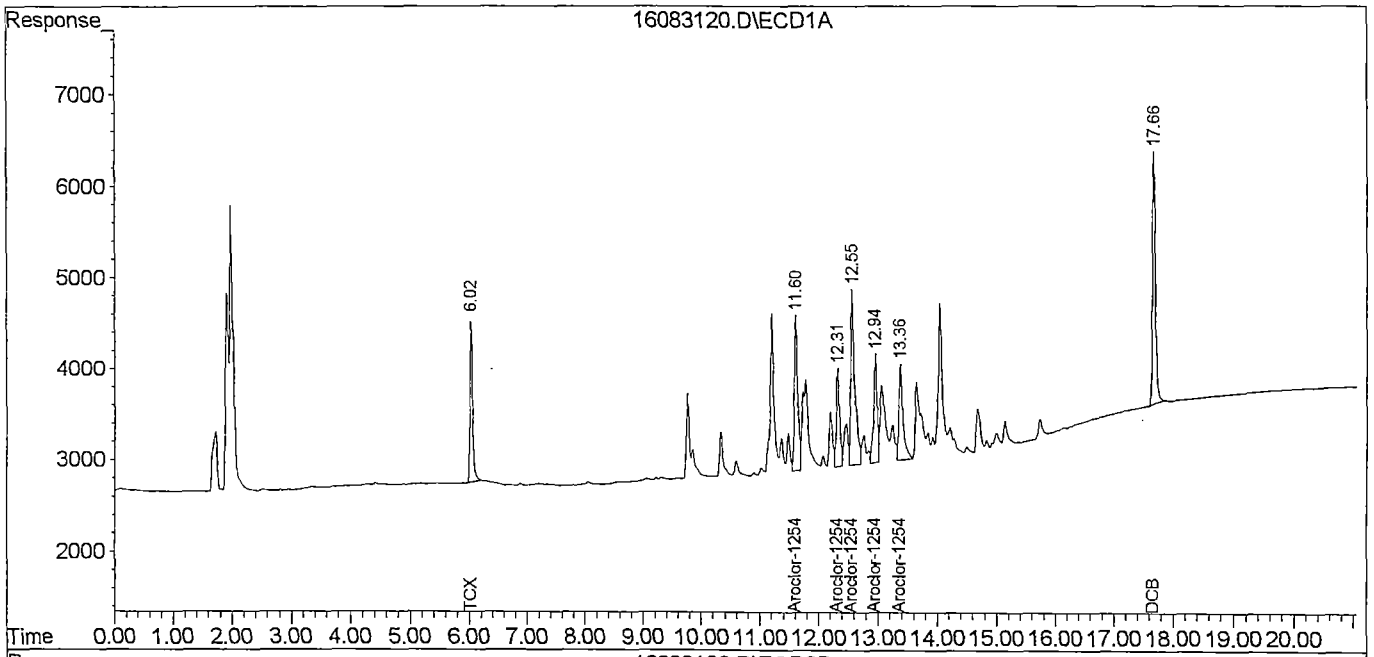
Chromatographic Report

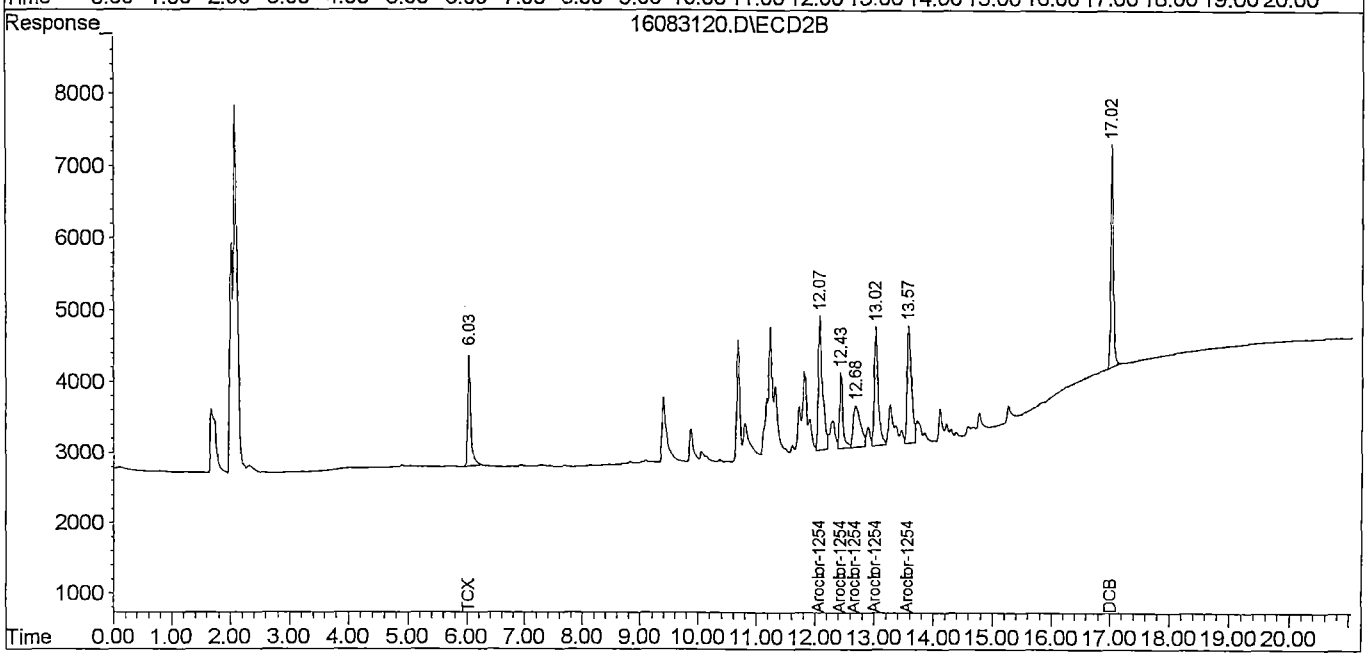
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083120.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083120.D\ECD2B.CH
Acq On : 31 Aug 2001 21:39 Operator: TLM
Sample : AR1254L2CG' Inst : HP_16
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:12 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

ok
9-4-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083120.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083120.D\ECD2B.CH
Acq On : 31 Aug 2001 21:39 Operator: TLM
Sample : AR1254L2CG Inst : HP_16
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:12 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	53209	57450	10.7	9.944
22)	S DCB	17.66	17.02	92090	95785	10.8	10.9
	Target Compounds:						
12)	L6 Aroclor-1254	11.60	12.07	65823	93174	227.5	220.0
13)	L6 Aroclor-1254 {2}	12.31	12.43	41757	41196	214.4	222.5
14)	L6 Aroclor-1254 {3}	12.56	12.68	91330	49105	219.2	207.6
15)	L6 Aroclor-1254 {4}	12.94	13.02	47270	74777	224.6	224.0
16)	L6 Aroclor-1254 {5}	13.36	13.57	48557	86632	216.0	223.6
	Sum Aroclor-1254			294737	344885	1101.7	1097.6
	Average Aroclor-1254					220.335	219.522

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

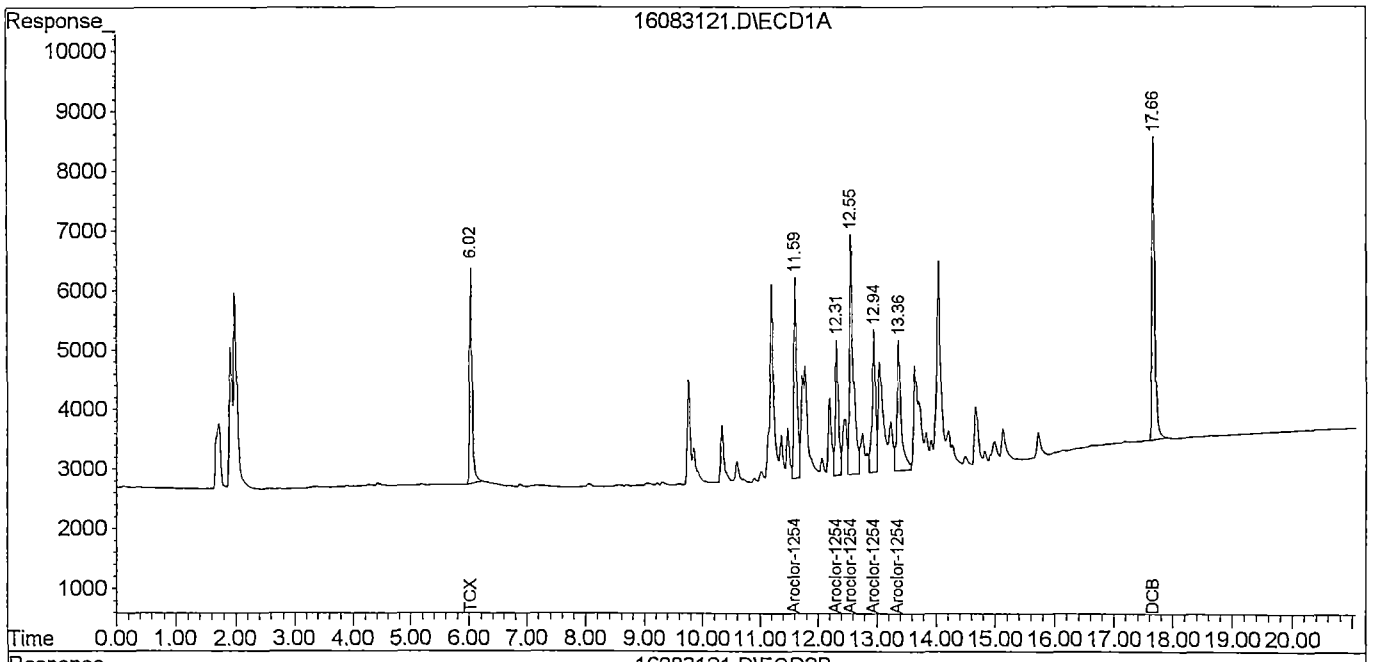
Chromatographic Report

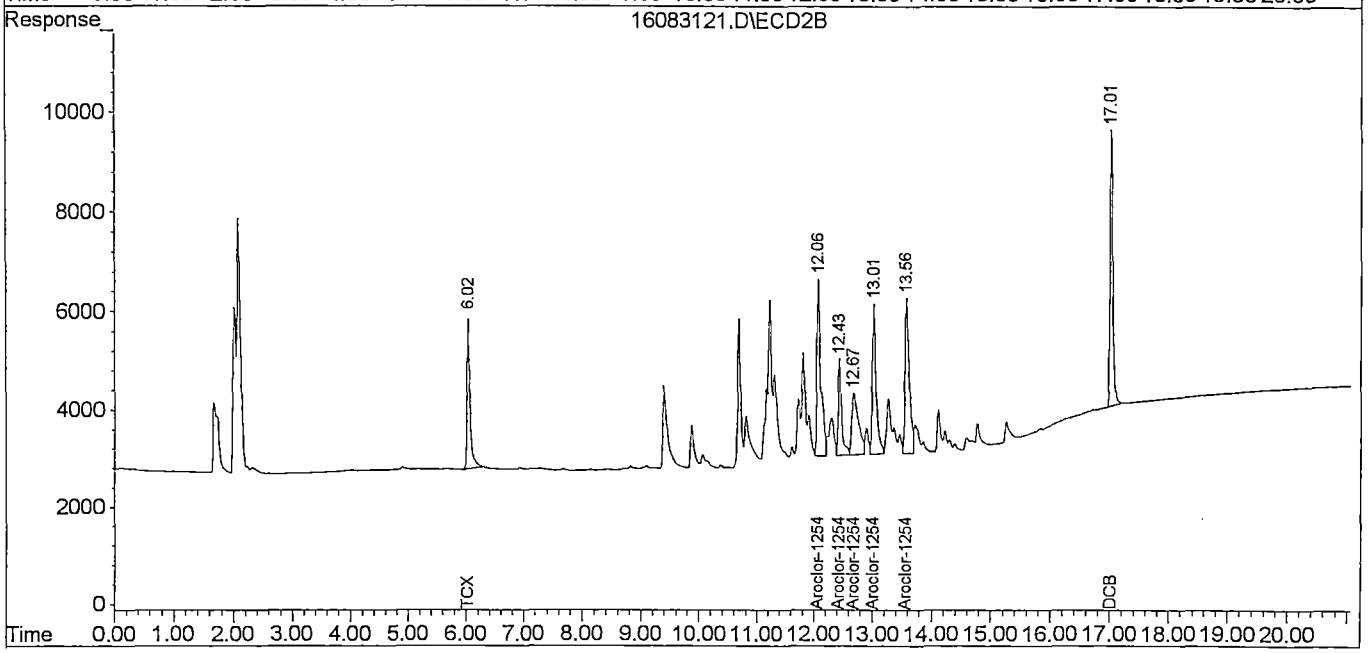
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083121.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083121.D\ECD2B.CH
Acq On : 31 Aug 2001 22:04 Operator: TLM
Sample : AR1254L3CG ✓ Inst : HP_16
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:12 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

ok 9-4-01 EA

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083121.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083121.D\ECD2B.CH
Acq On : 31 Aug 2001 22:04 Operator: TLM
Sample : AR1254L3CG Inst : HP_16
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:12 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	105668	111212	20.7	19.0
22)	S DCB	17.66	17.02	169783	175359	19.7	19.6
	Target Compounds:						
12)	L6 Aroclor-1254	11.60	12.06	125661	172303	434.4	406.8
13)	L6 Aroclor-1254 {2}	12.31	12.43	87003	79243	446.7	427.9
14)	L6 Aroclor-1254 {3}	12.55	12.68	185432	101392	445.0	428.6
15)	L6 Aroclor-1254 {4}	12.94	13.02	96196	139246	457.0	417.1
16)	L6 Aroclor-1254 {5}	13.36	13.56	107496	161859	478.2	417.7
	Sum Aroclor-1254			601789	654044	2261.3	2098.2
	Average Aroclor-1254					452.257	419.638

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

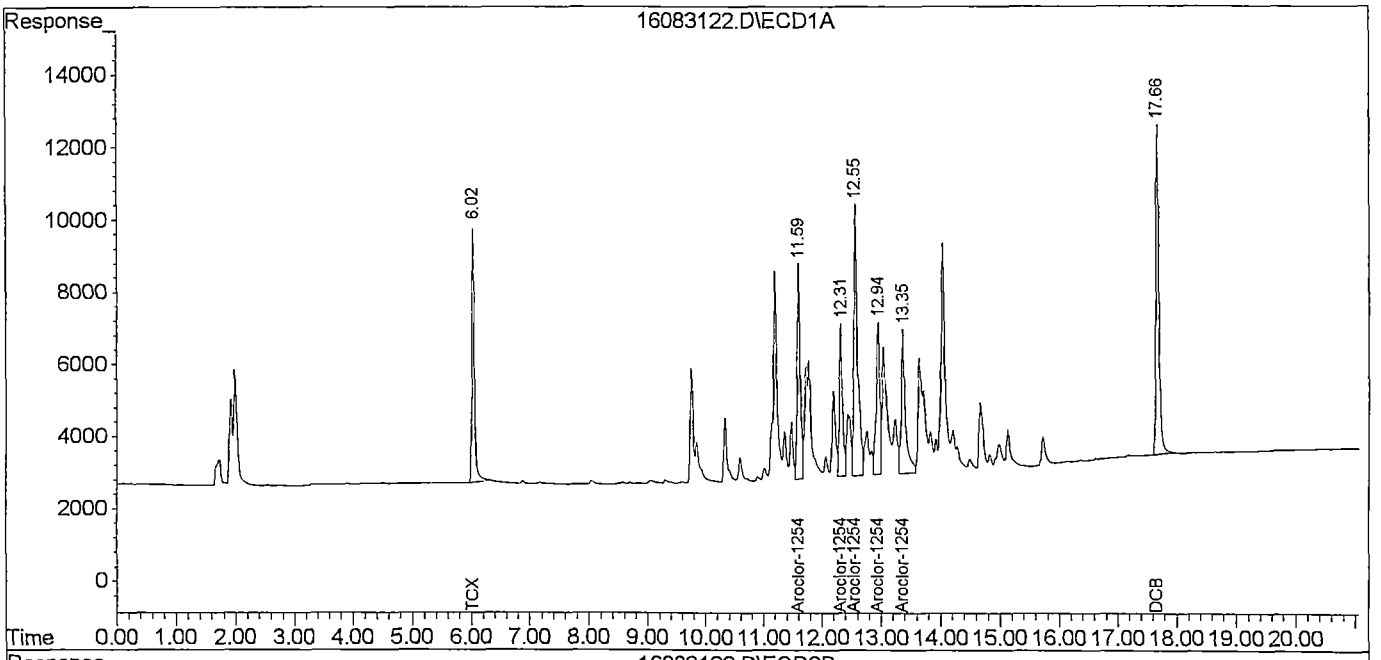
Chromatographic Report

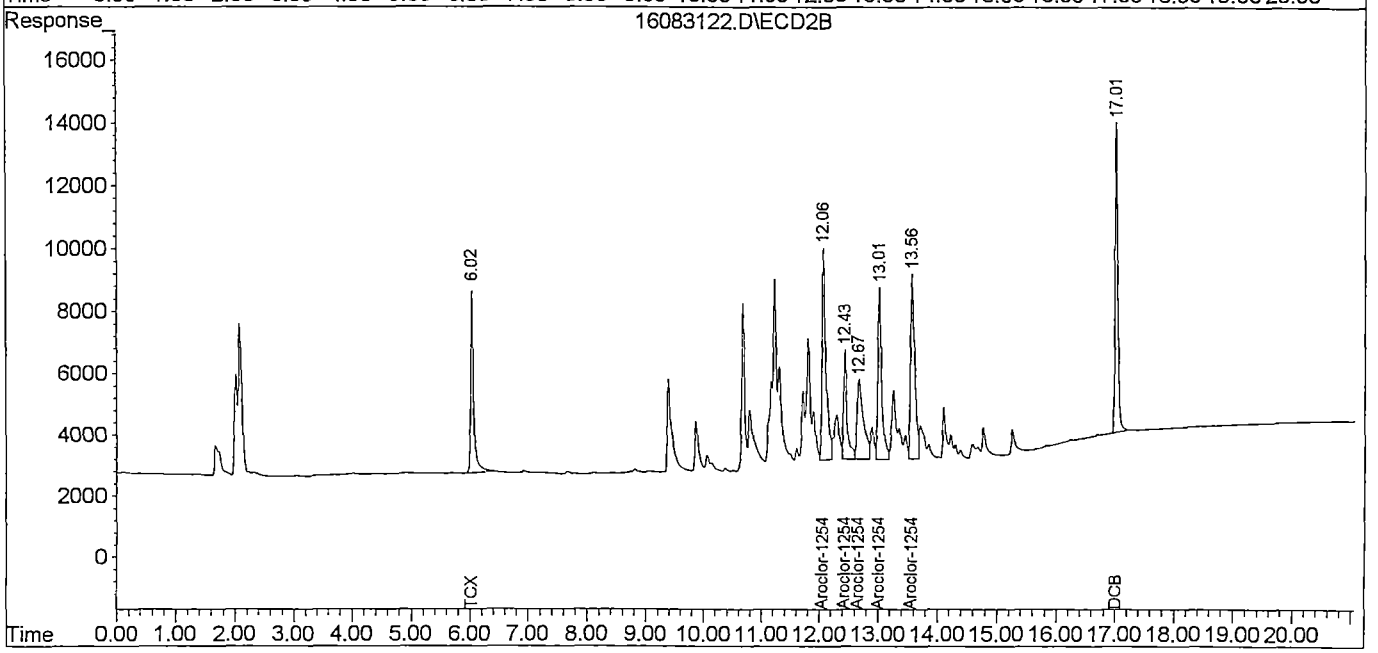
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083122.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083122.D\ECD2B.CH
Acq On : 31 Aug 2001 22:28 Operator: TLM
Sample : AR1254L4CG✓ Inst : HP_16
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:12 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

ok
9-4-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083122.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083122.D\ECD2B.CH
Acq On : 31 Aug 2001 22:28 Operator: TLM
Sample : AR1254L4CG Inst : HP_16
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:12 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	204550	214362	40.2	37.4
22)	S DCB	17.66	17.02	308843	313544	36.4	35.5
	Target Compounds:						
12)	L6 Aroclor-1254	11.59	12.06	218424	317821	755.0	750.4
13)	L6 Aroclor-1254 {2}	12.31	12.43	157189	147321	807.1	795.6
14)	L6 Aroclor-1254 {3}	12.55	12.67	331434	197094	795.4	833.1
15)	L6 Aroclor-1254 {4}	12.94	13.01	171526	254949	814.8	763.7
16)	L6 Aroclor-1254 {5}	13.36	13.56	194069	300510	863.3	775.5
	Sum Aroclor-1254			1072642	1217695	4035.7	3918.4
	Average Aroclor-1254					807.134	783.673

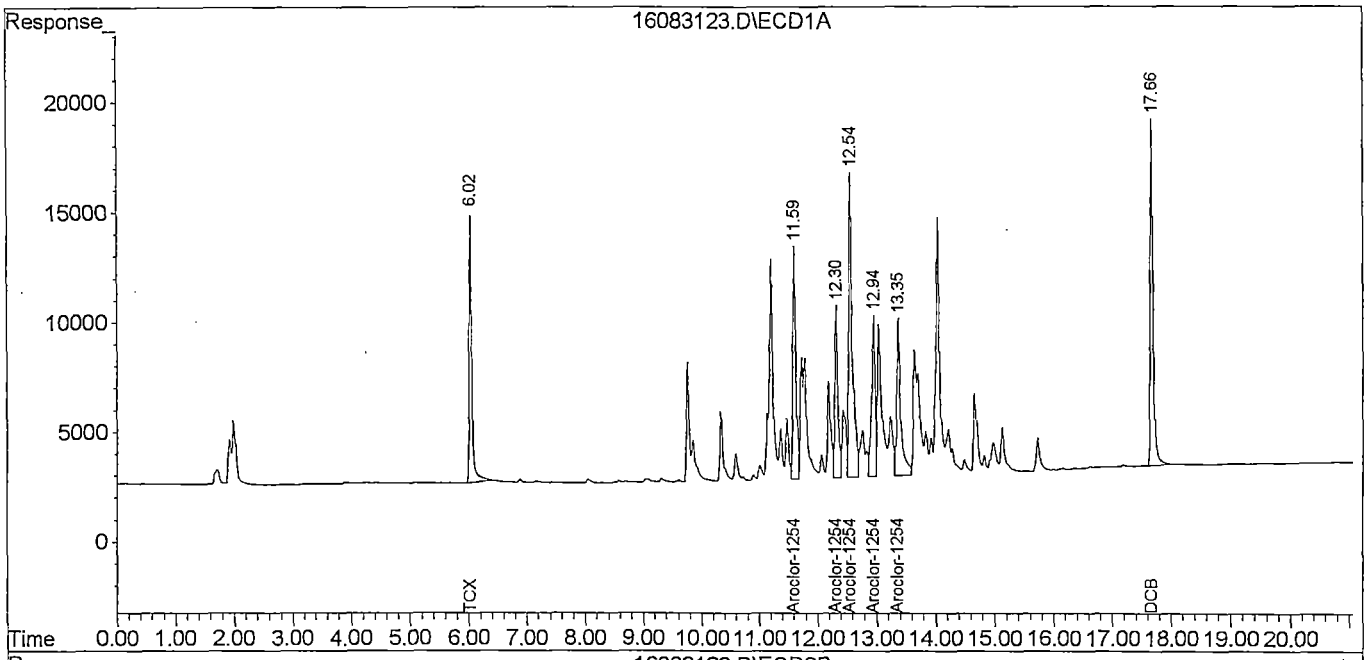
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

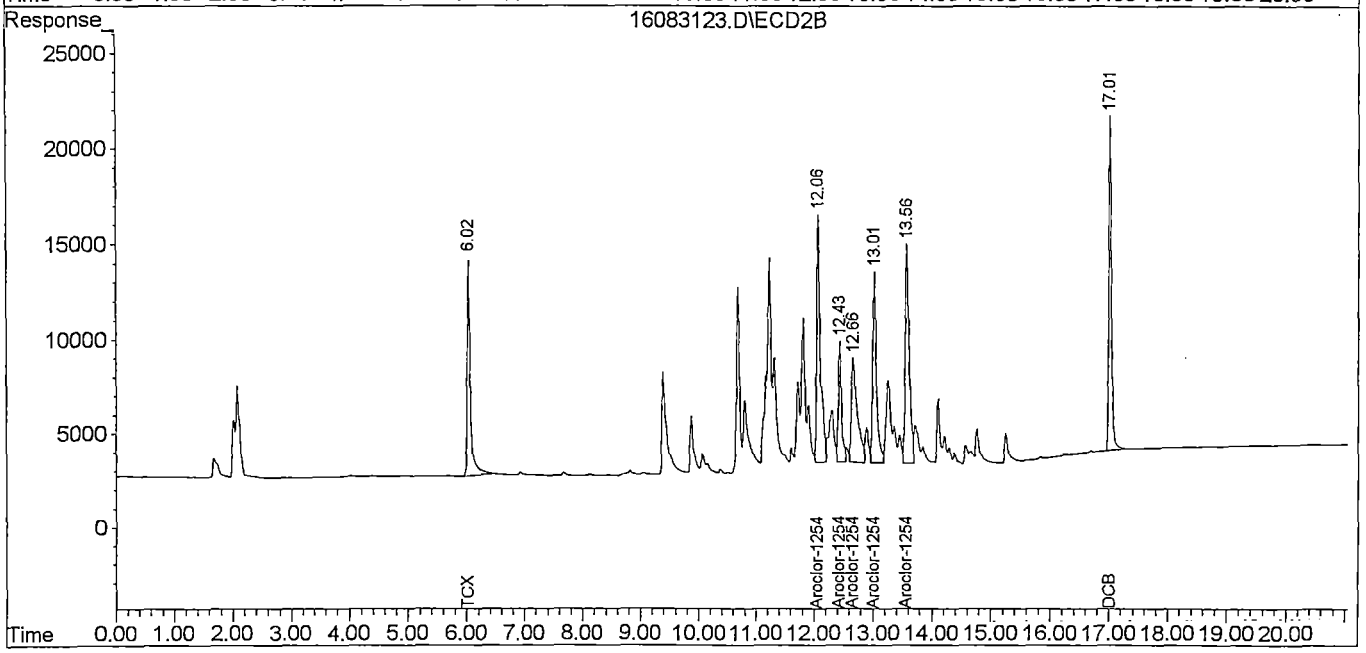
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083123.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083123.D\ECD2B.CH
Acq On : 31 Aug 2001 22:53 Operator: TLM
Sample : AR1254L5CG ✓ Inst : HP_16
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:12 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083123.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083123.D\ECD2B.CH
Acq On : 31 Aug 2001 22:53 Operator: TLM
Sample : AR1254L5CG Inst : HP_16
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:12 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	369056	426762	73.4	77.1
22)	S DCB	17.66	17.02	530760	560291	64.1	65.0
	Target Compounds:						
12)	L6 Aroclor-1254	11.59	12.06	371870	589369	1285.4 E	1391.6
13)	L6 Aroclor-1254 {2}	12.31	12.43	279996	244280	1437.7 E	1319.2
14)	L6 Aroclor-1254 {3}	12.55	12.66	583897	385460	1401.2 E	1629.3
15)	L6 Aroclor-1254 {4}	12.94	13.01	297305	460794	1412.4 E	1380.3
16)	L6 Aroclor-1254 {5}	13.35	13.56	340019	563109	1512.6 E	1453.2 E
	Sum Aroclor-1254			1873088	2243011	7049.3	7173.7
	Average Aroclor-1254					1409.860	1434.735

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

Response Factor Report HP_16

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

ok 9-4-01

Calibration Files
L1 =16083124.D L2 =16083125.D L3 =16083126.D
L4 =16083127.D L5 =16083128.D

	Compound	L1	L2	L3	L4	L5	Avg	%RSD
1)	TCX	5.7	4.9	5.5	4.5	4.8	5.1 E3	9.98
2)	Aroclor-1016	160.4	136.8	145.0	116.1	112.3	134.1	14.98
3)	Aroclor-1016 {2}	403.8	331.1	333.9	262.3	251.6	316.5	19.53
4)	Aroclor-1016 {3}	71.2	64.0	66.8	55.7	57.0	62.9	10.37
5)	Aroclor-1016 {4}	161.7	139.9	139.6	110.3	105.0	131.3	17.86
6)	Aroclor-1016 {5}	188.8	158.9	160.6	122.4	127.3	151.6	17.95
17)	Aroclor-1260	723.9	585.7	610.7	530.5	547.4	599.6	12.71
18)	Aroclor-1260 {2}	410.1	338.8	340.6	284.1	275.4	329.8	16.39
19)	Aroclor-1260 {3}	256.4	228.2	230.5	193.7	187.1	219.2	13.05
20)	Aroclor-1260 {4}	408.8	332.4	343.7	300.2	302.0	337.4	13.09
21)	Aroclor-1260 {5}	825.2	669.6	692.9	610.7	579.0	675.5	14.10
22)	DCB	10.7	9.0	8.8	7.8	7.6	8.8 E3	14.02
	Average %RSD							13.65

Signal #2 Calibration Files
L1 =16083124.D L2 =16083125.D L3 =16083126.D
L4 =16083127.D L5 =16083128.D

	Compound	L1	L2	L3	L4	L5	Avg	%RSD
24)	TCX #2	6.5	5.3	6.4	5.8	6.5	6.1 E3	8.88
25)	Aroclor-1016 #2	132.1	107.7	136.4	120.5	129.9	125.3	9.13
26)	Aroclor-1016 {2} #2	444.1	350.1	377.5	314.6	312.1	359.7	15.13
27)	Aroclor-1016 {3} #2	311.2	235.8	254.2	215.4	225.5	248.4	15.26
28)	Aroclor-1016 {4} #2	218.8	166.9	175.6	144.9	145.4	170.3	17.77
29)	Aroclor-1016 {5} #2	149.7	117.0	124.2	105.3	107.7	120.8	14.78
40)	Aroclor-1260 #2	757.4	584.8	650.8	564.2	581.4	627.7	12.68
41)	Aroclor-1260 {2} #2	426.2	326.7	349.7	294.1	299.3	339.2	15.78
42)	Aroclor-1260 {3} #2	260.6	210.8	231.3	199.1	206.5	221.6	11.20
43)	Aroclor-1260 {4} #2	378.1	289.6	316.6	274.7	290.2	309.9	13.24
44)	Aroclor-1260 {5} #2	907.5	704.6	783.8	679.2	719.3	758.9	12.07
45)	DCB #2	10.2	8.9	9.6	8.1	8.2	9.0 E3	9.93
	Average %RSD							

(#) = Out of Range

XPCBH31.M Sat Sep 01 10:18:28 2001

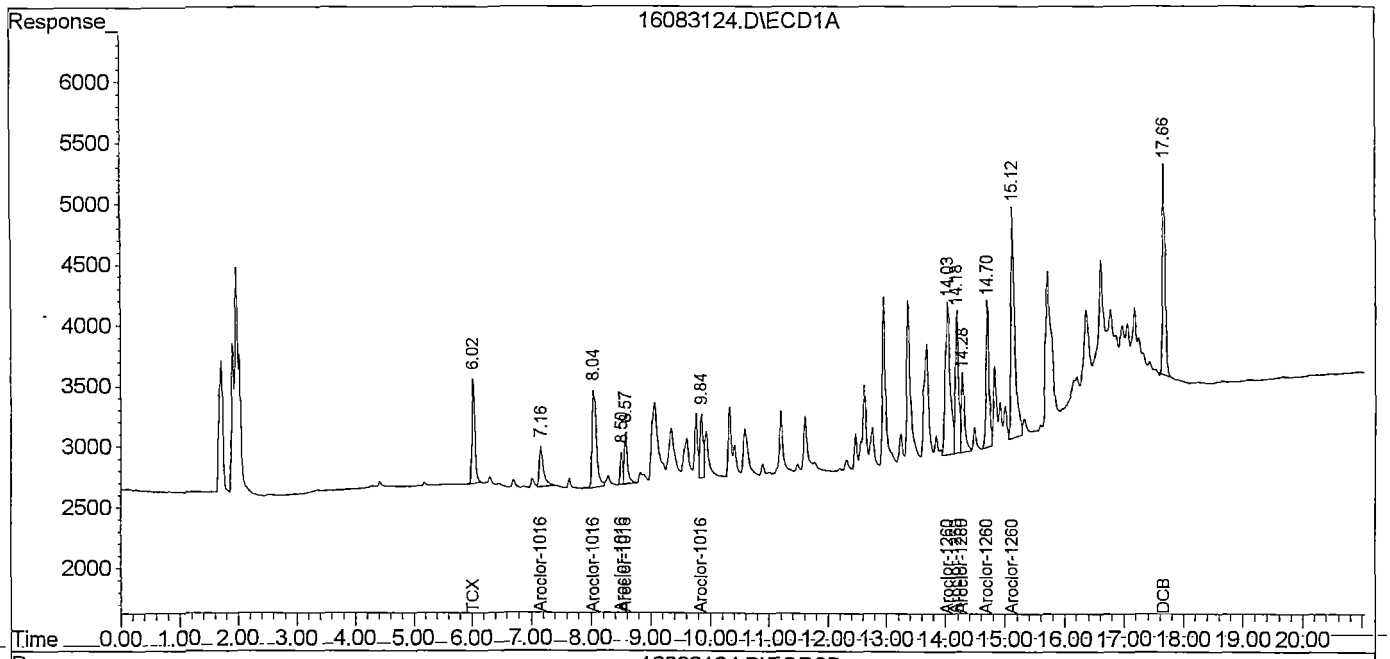
Chromatographic Report

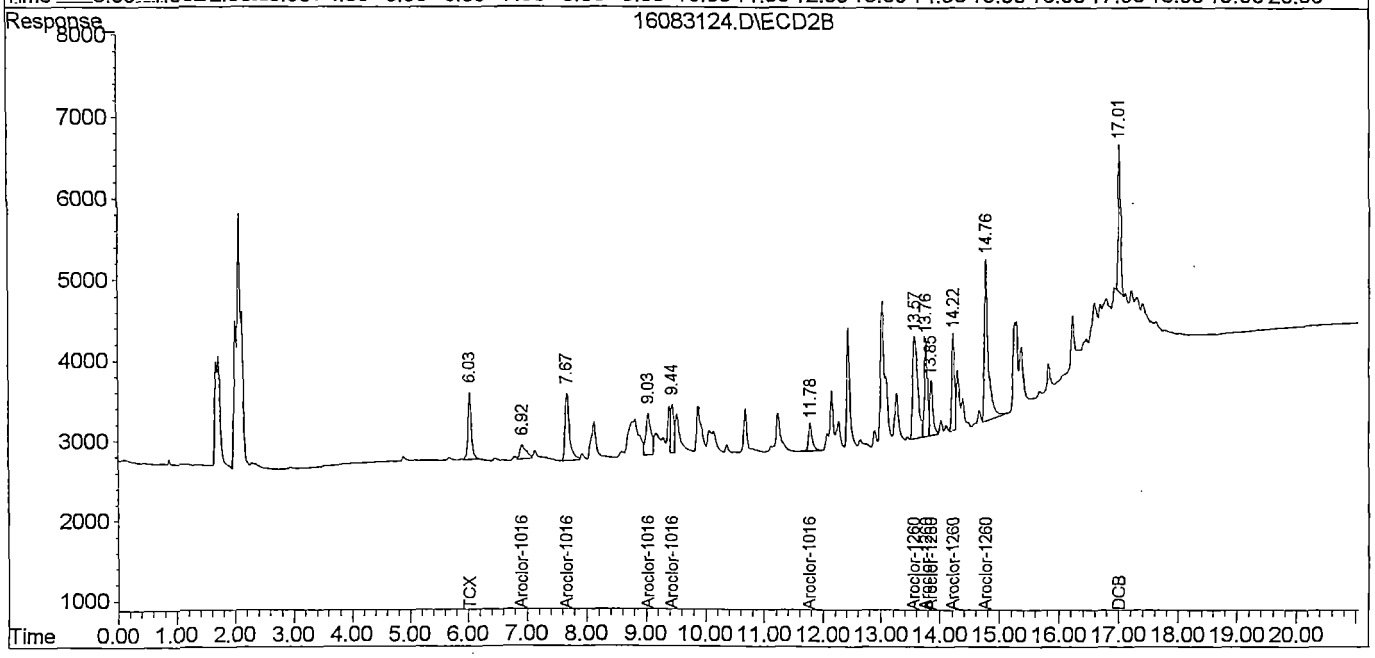
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083124.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083124.D\ECD2B.CH
Acq On : 31 Aug 2001 23:18 Operator: TLM
Sample : AR1660L1CG Inst : HP_16
Misc : 5-212-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:17 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 9-4-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083124.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083124.D\ECD2B.CH
Acq On : 31 Aug 2001 23:18 Operator: TLM
Sample : AR1660L1CG Inst : HP_16
Misc : 5-212-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:17 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	28649	32486	5.773	6.012
22)	S DCB	17.66	17.02	53464	50778	6.549	5.983
	Target Compounds:						
2)	L1 Aroclor-1016	7.16	6.92	16040	13211	119.6	105.4
3)	L1 Aroclor-1016 {2}	8.04	7.67	40379	44412	127.6	123.5
4)	L1 Aroclor-1016 {3}	8.50	9.03	7116	31124	113.1	125.3
5)	L1 Aroclor-1016 {4}	8.57	9.44	16168	21883	123.1	128.5
6)	L1 Aroclor-1016 {5}	9.85	11.78	18879	14970	124.5	124.0
	Sum Aroclor-1016			98582	125600	607.9	606.6
	Average Aroclor-1016					121.589	121.329
17)	L7 Aroclor-1260	14.03	13.57	72386	75736	120.7	120.7
18)	L7 Aroclor-1260 {2}	14.18	13.77	41013	42622	124.3	125.7
19)	L7 Aroclor-1260 {3}	14.28	13.85	25636	26059	117.0	117.6
20)	L7 Aroclor-1260 {4}	14.70	14.22	40879	37808	121.2	122.0
21)	L7 Aroclor-1260 {5}	15.12	14.77	82525	90752	122.2	119.6
	Sum Aroclor-1260			262438	272977	605.4	605.5
	Average Aroclor-1260					121.072	121.097

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

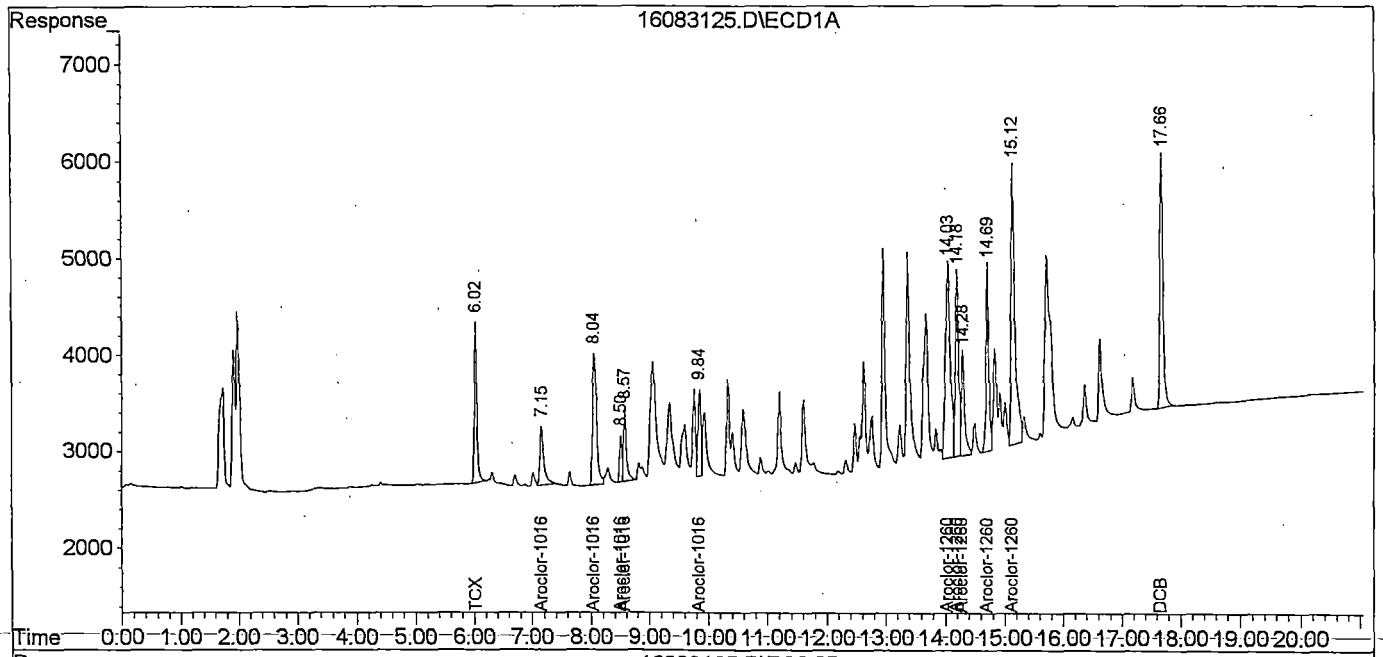
Chromatographic Report

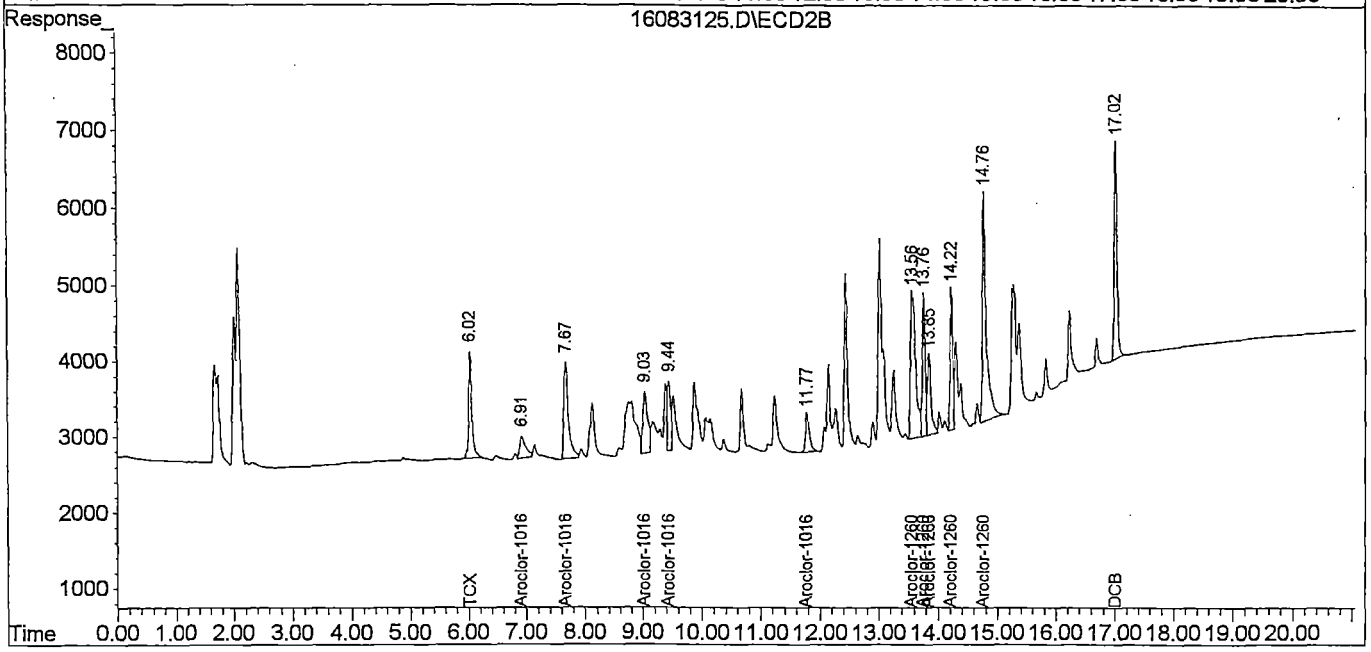
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083125.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083125.D\ECD2B.CH
Acq On : 31 Aug 2001 23:42 Operator: TLM
Sample : AR1660L2CG ✓ Inst : HP_16
Misc : 5-211-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:17 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 9-4-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083125.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083125.D\ECD2B.CH
Acq On : 31 Aug 2001 23:42 Operator: TLM
Sample : AR1660L2CG Inst : HP_16
Misc : 5-211-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:17 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	49069	53261	9.414	9.345
22)	S DCB	17.66	17.02	90135	89356	10.5	10.3
	Target Compounds:						
2)	L1 Aroclor-1016	7.16	6.92	27361	21534	204.0	171.9
3)	L1 Aroclor-1016 {2}	8.04	7.67	66229	70019	209.2	194.7
4)	L1 Aroclor-1016 {3}	8.50	9.03	12791	47157	203.3	189.8
5)	L1 Aroclor-1016 {4}	8.57	9.44	27985	33381	213.2	196.0
6)	L1 Aroclor-1016 {5}	9.84	11.78	31776	23393	209.6	193.7
	Sum Aroclor-1016			166142	195484	1039.3	946.1
	Average Aroclor-1016					207.859	189.213
17)	L7 Aroclor-1260	14.03	13.57	117131	116951	195.3	186.3
18)	L7 Aroclor-1260 {2}	14.18	13.76	67764	65340	205.5	192.6
19)	L7 Aroclor-1260 {3}	14.28	13.85	45642	42152	208.2	190.2
20)	L7 Aroclor-1260 {4}	14.70	14.22	66485	57925	197.0	186.9
21)	L7 Aroclor-1260 {5}	15.12	14.77	133923	140928	198.3	185.7
	Sum Aroclor-1260			430945	423296	1004.4	941.8
	Average Aroclor-1260					200.871	188.354

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

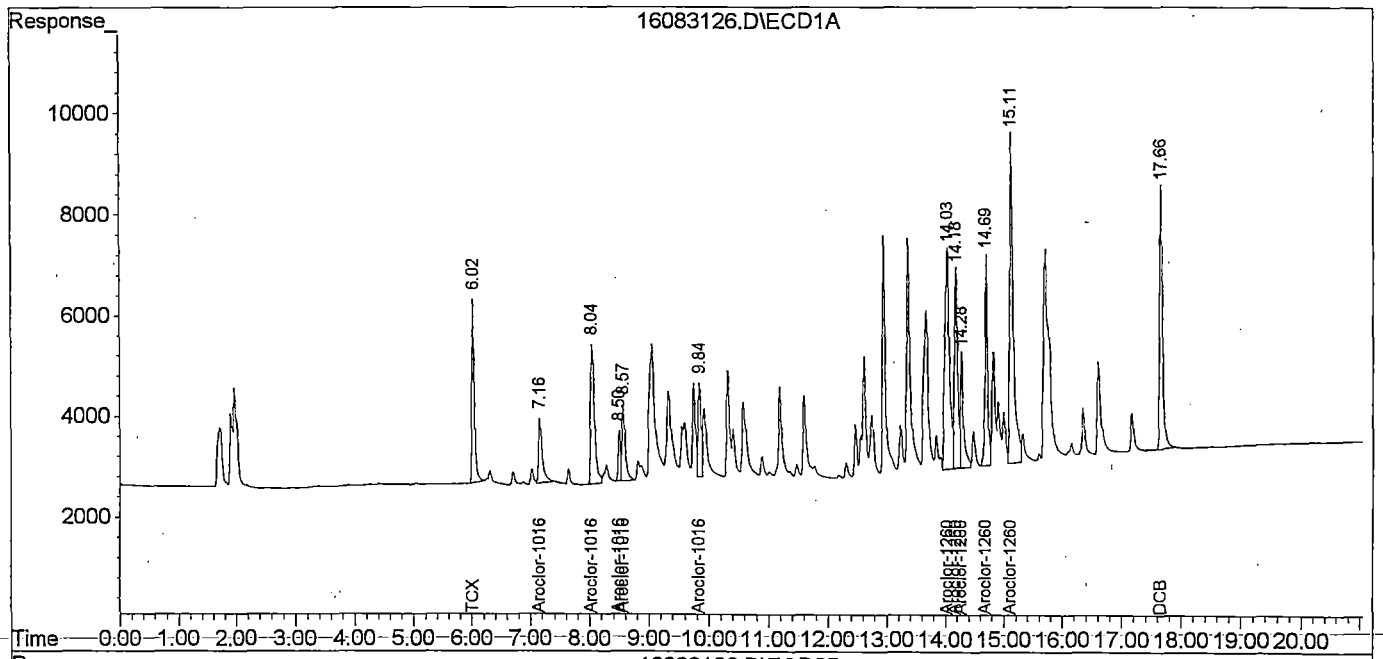
Chromatographic Report

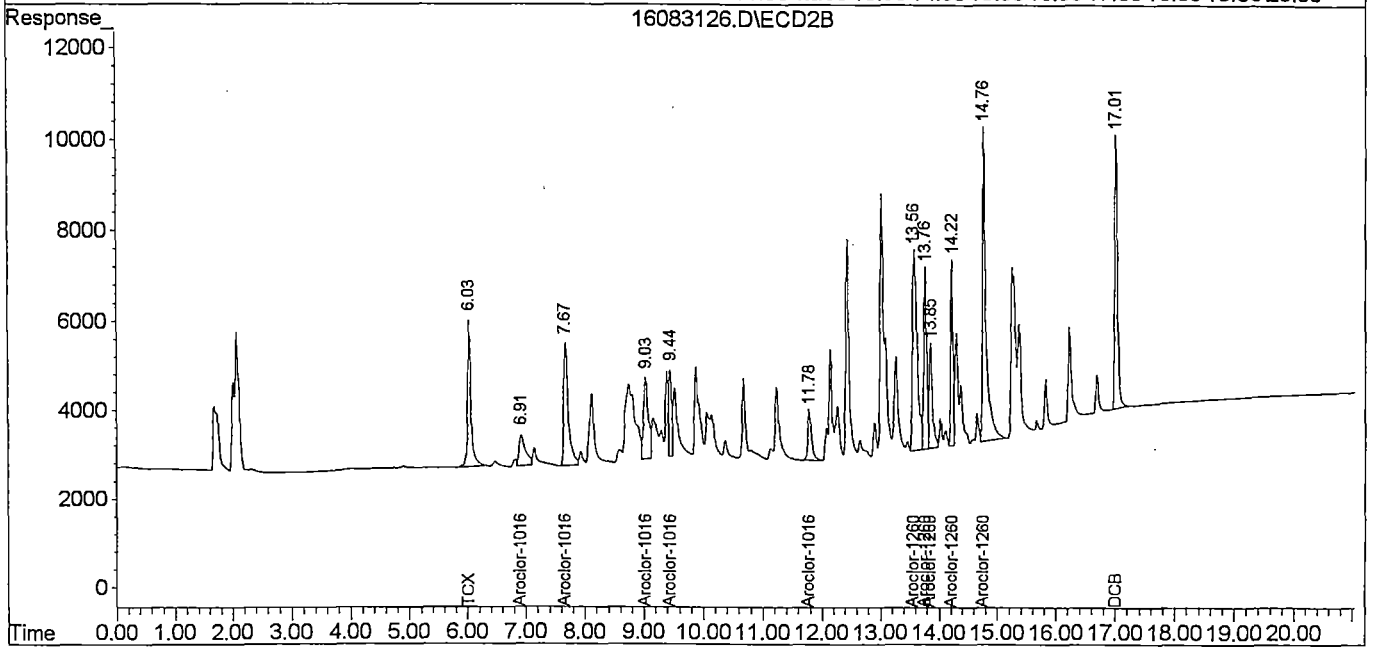
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083126.D\ECD1A.CH Vial: 26
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083126.D\ECD2B.CH
Acq On : 01 Sep 2001 00:07 Operator: TLM
Sample : AR1660L3CQ✓ Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:17 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 9-4-01 [illegible]





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083126.D\ECD1A.CH Vial: 26
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083126.D\ECD2B.CH
Acq On : 01 Sep 2001 00:07 Operator: TLM
Sample : AR1660L3CQ Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:17 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	110391	128917	21.5	23.0
22)	S DCB	17.66	17.02	175969	191186	20.7	22.4
	Target Compounds:						
2)	L1 Aroclor-1016	7.16	6.91	57981	54555	432.3	435.4
3)	L1 Aroclor-1016 {2}	8.04	7.67	133546	150989	421.9	419.8
4)	L1 Aroclor-1016 {3}	8.50	9.03	26702	101682	424.3	409.3
5)	L1 Aroclor-1016 {4}	8.57	9.44	55830	70250	425.2	412.5
6)	L1 Aroclor-1016 {5}	9.84	11.78	64236	49660	423.8	411.3
	Sum Aroclor-1016			338295	427135	2127.6	2088.2
	Average Aroclor-1016					425.514	417.636
17)	L7 Aroclor-1260	14.03	13.56	244273	260330	407.4	414.7
18)	L7 Aroclor-1260 {2}	14.18	13.76	136230	139875	413.0	412.4
19)	L7 Aroclor-1260 {3}	14.28	13.85	92206	92501	420.7	417.3
20)	L7 Aroclor-1260 {4}	14.70	14.22	137462	126658	407.4	408.8
21)	L7 Aroclor-1260 {5}	15.12	14.76	277168	313502	410.3	413.1
	Sum Aroclor-1260			887339	932866	2058.9	2066.3
	Average Aroclor-1260					411.771	413.261

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

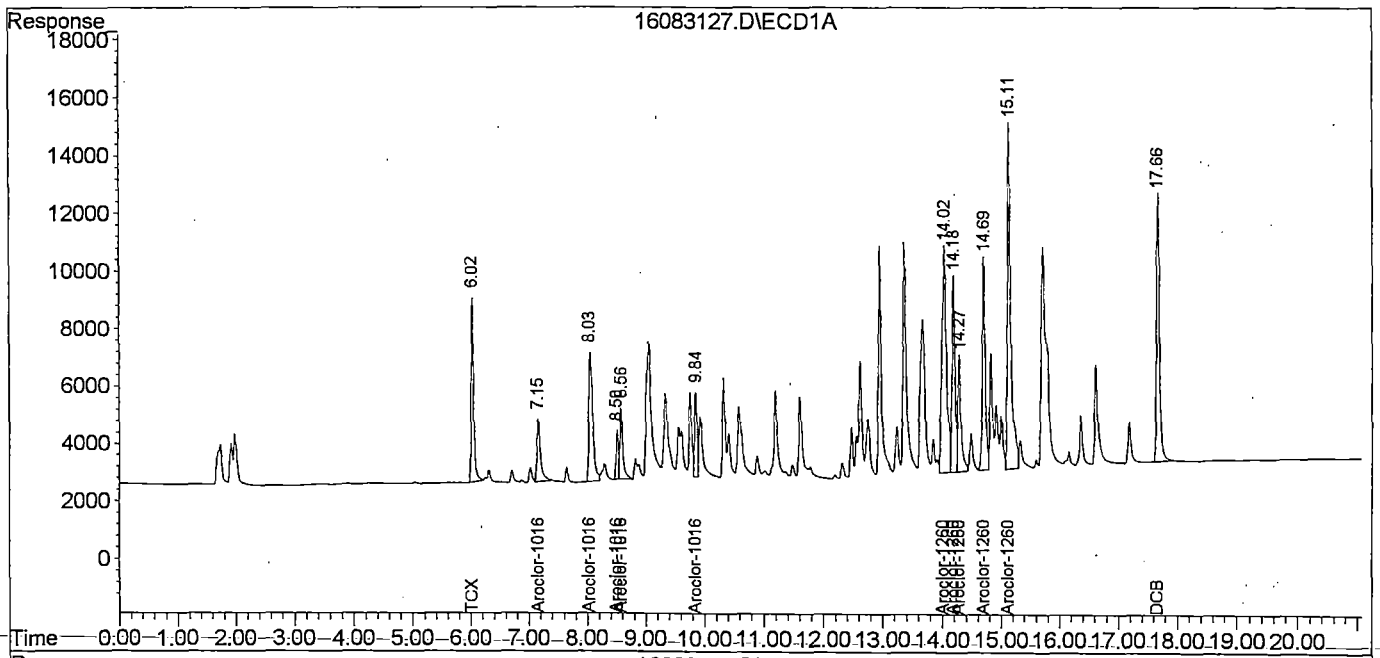
Chromatographic Report

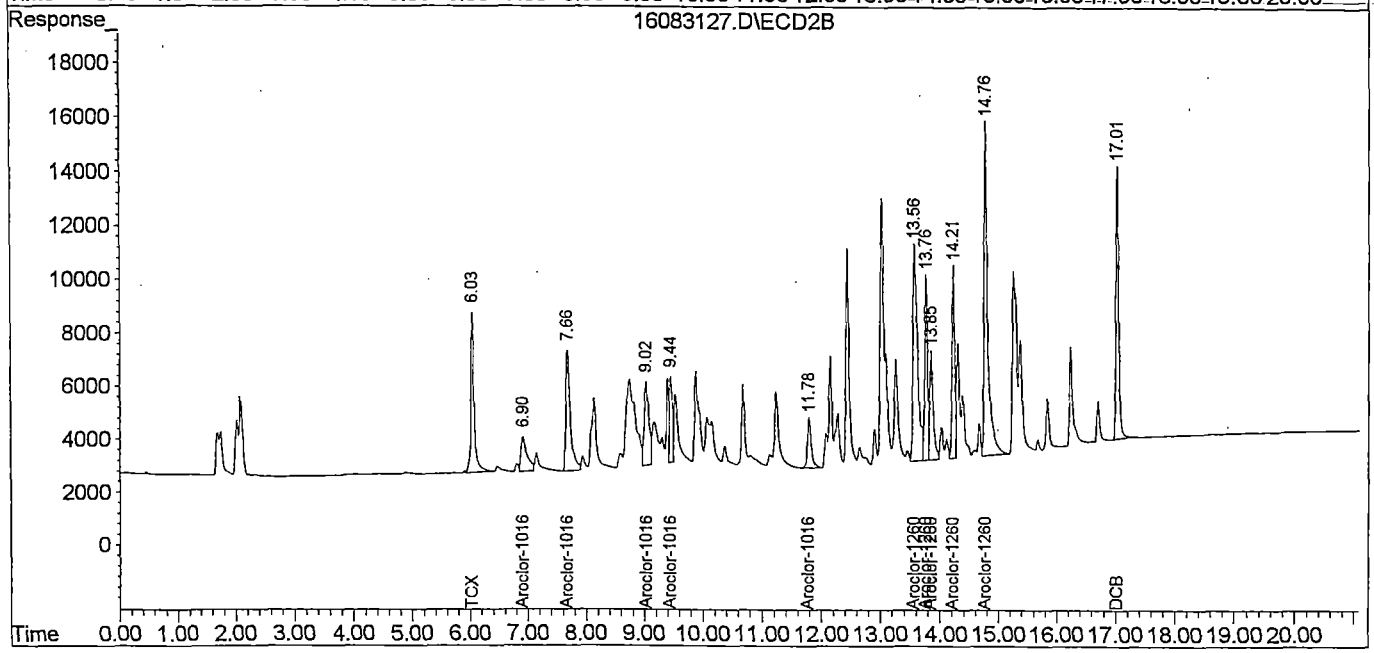
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083127.D\ECD1A.CH Vial: 27
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083127.D\ECD2B.CH
Acq On : 01 Sep 2001 00:32 Operator: TLM
Sample : AR1660L4CG ✓ Inst : HP_16
Misc : 5-209-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:17 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

ok 9-4-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083127.D\ECD1A.CH Vial: 27
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083127.D\ECD2B.CH
Acq On : 01 Sep 2001 00:32 Operator: TLM
Sample : AR1660L4CG Inst : HP_16
Misc : 5-209-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:17 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	180829	230438	34.9	39.8
22)	S DCB	17.66	17.02	312370	322794	36.4	37.1
	Target Compounds:						
2)	L1 Aroclor-1016	7.15	6.91	92916	96404	692.8	769.4
3)	L1 Aroclor-1016 {2}	8.04	7.67	209820	251662	662.9	699.7
4)	L1 Aroclor-1016 {3}	8.50	9.03	44575	172355	708.4	693.8
5)	L1 Aroclor-1016 {4}	8.57	9.44	88255	115900	672.2	680.5
6)	L1 Aroclor-1016 {5}	9.84	11.78	97919	84201	646.0	697.3
	Sum Aroclor-1016			533484	720522	3382.2	3540.6
	Average Aroclor-1016					676.444	708.123
17)	L7 Aroclor-1260	14.02	13.56	424437	451398	707.8	719.1
18)	L7 Aroclor-1260 {2}	14.18	13.76	227316	235270	689.2	693.6
19)	L7 Aroclor-1260 {3}	14.28	13.85	154953	159290	707.0	718.7
20)	L7 Aroclor-1260 {4}	14.70	14.22	240122	219784	711.7	709.3
21)	L7 Aroclor-1260 {5}	15.11	14.76	488555	543345	723.3	716.0
	Sum Aroclor-1260			1535383	1609087	3539.0	3556.7
	Average Aroclor-1260					707.796	711.335

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

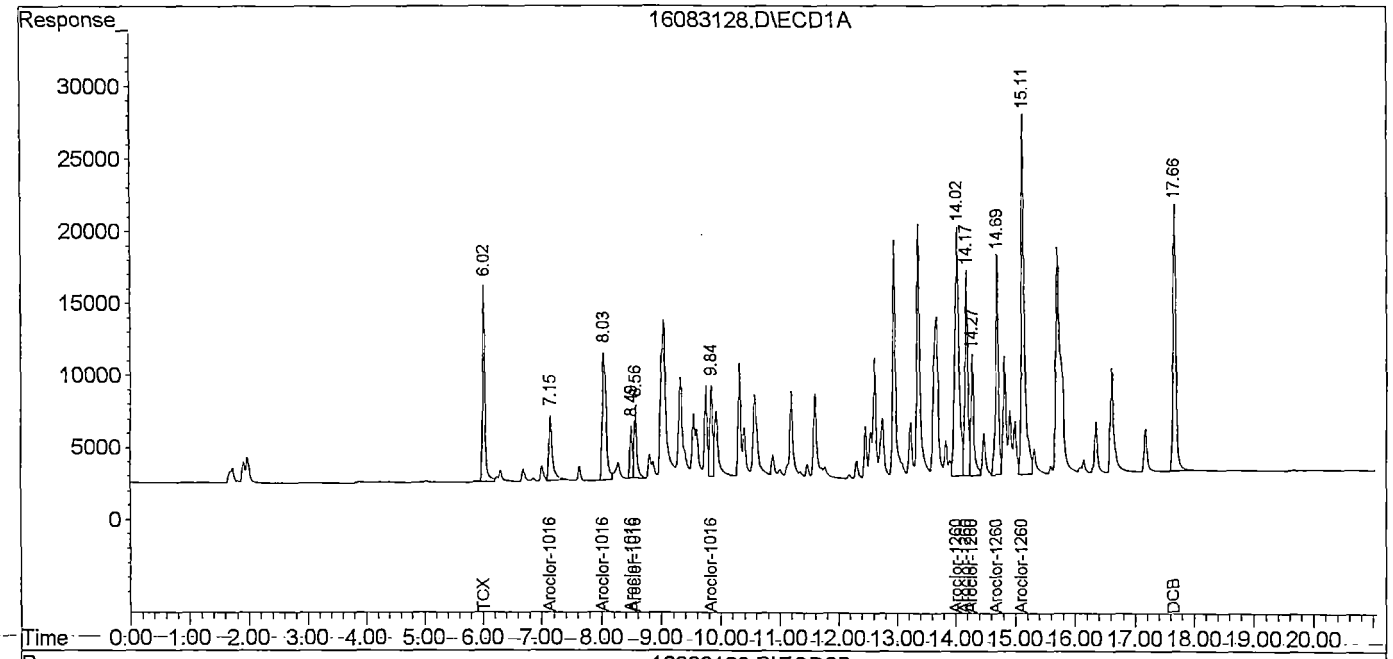
Chromatographic Report

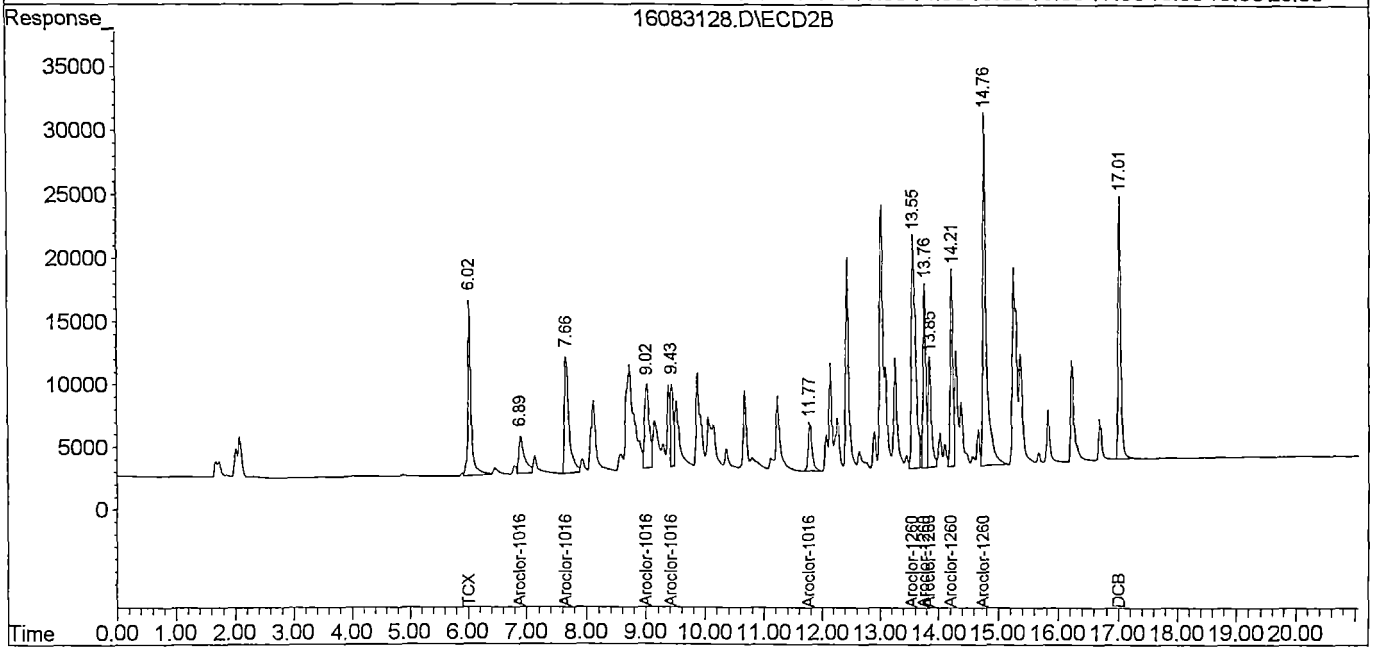
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083128.D\ECD1A.CH Vial: 28
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083128.D\ECD2B.CH
Acq On : 01 Sep 2001 00:56 Operator: TLM
Sample : AR1660L5CG✓ Inst : HP_16
Misc : 5-208-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:18 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 9-4-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083128.D\ECD1A.CH Vial: 28
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083128.D\ECD2B.CH
Acq On : 01 Sep 2001 00:56 Operator: TLM
Sample : AR1660L5CG Inst : HP_16
Misc : 5-208-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:18 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.02	384224	522633	76.0 E	89.0 E
22)	S DCB	17.66	17.02	607497	654721	70.7 E	74.9 E
	Target Compounds:						
2)	L1 Aroclor-1016	7.15	6.90	179657	207781	1339.5 E	1658.2
3)	L1 Aroclor-1016 {2}	8.03	7.66	402493	499288	1271.6	1388.2
4)	L1 Aroclor-1016 {3}	8.50	9.02	91257	360805	1450.2	1452.3
5)	L1 Aroclor-1016 {4}	8.56	9.44	167923	232585	1279.0 E	1365.6 E
6)	L1 Aroclor-1016 {5}	9.84	11.78	203646	172307	1343.4	1426.9
	Sum Aroclor-1016			1044976	1472765	6683.8	7291.2
	Average Aroclor-1016					1336.765	1458.245
17)	L7 Aroclor-1260	14.02	13.56	875852	930304	1460.7	1482.0
18)	L7 Aroclor-1260 {2}	14.18	13.76	440677	478882	1336.1 E	1411.8 E
19)	L7 Aroclor-1260 {3}	14.28	13.85	299333	330419	1365.8 E	1490.8 E
20)	L7 Aroclor-1260 {4}	14.69	14.22	483209	464289	1432.1 E	1498.4 E
21)	L7 Aroclor-1260 {5}	15.11	14.76	926340	1150876	1371.4 E	1516.5
	Sum Aroclor-1260			3025412	3354770	6966.0	7399.5
	Average Aroclor-1260					1393.205	1479.909

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

Continuing Calibration Report HP_16

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Sat Sep 01 11:04:02 2001
Response via : Initial Calibration

Continuing Calibration File: 16083144.D

ok 9-4-01

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	5.096	5.702	E3	-11.9	103
2	L1	Aroclor-1016	134.118	153.382		-14.4	106
3	L1	Aroclor-1016 {2}	316.526	356.344		-12.6	107
4	L1	Aroclor-1016 {3}	62.925	74.905		-19.0#	112
5	L1	Aroclor-1016 {4}	131.289	150.980		-15.0	108
6	L1	Aroclor-1016 {5}	151.588	150.626		0.6	94
						12.32%	
17	L7	Aroclor-1260	599.631	553.566		7.7	91
18	L7	Aroclor-1260 {2}	329.818	296.193		10.2	87
19	L7	Aroclor-1260 {3}	219.171	190.272		13.2	83
20	L7	Aroclor-1260 {4}	337.405	308.402		8.6	90
21	L7	Aroclor-1260 {5}	675.488	615.981		8.8	89
22	S	DCB	8.782	7.763	E3	11.6	88
		Average %Dev					

Signal #2
Continuing Calibration File: 16083144.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	6.113	6.798	E3	-11.2	105
2	L1	Aroclor-1016	125.306	148.696		-18.7#	109
3	L1	Aroclor-1016 {2}	359.665	396.997		-10.4	105
4	L1	Aroclor-1016 {3}	248.436	271.008		-9.1	107
5	L1	Aroclor-1016 {4}	170.319	185.101		-8.7	105
6	L1	Aroclor-1016 {5}	120.752	133.950		-10.9	108
17	L7	Aroclor-1260	627.724	695.136		-10.7	107
18	L7	Aroclor-1260 {2}	339.200	365.356		-7.7	104
19	L7	Aroclor-1260 {3}	221.645	233.193		-5.2	101
20	L7	Aroclor-1260 {4}	309.853	339.532		-9.6	107
21	L7	Aroclor-1260 {5}	758.878	820.606		-8.1	105
22	S	DCB	8.981	9.853	E3	-9.7	103
		Average %Dev					

(#) = Out of Range SPCC's out = 0 CCC's out = 0

16083144.D XPCBH31.M Sat Sep 01 11:04:11 2001

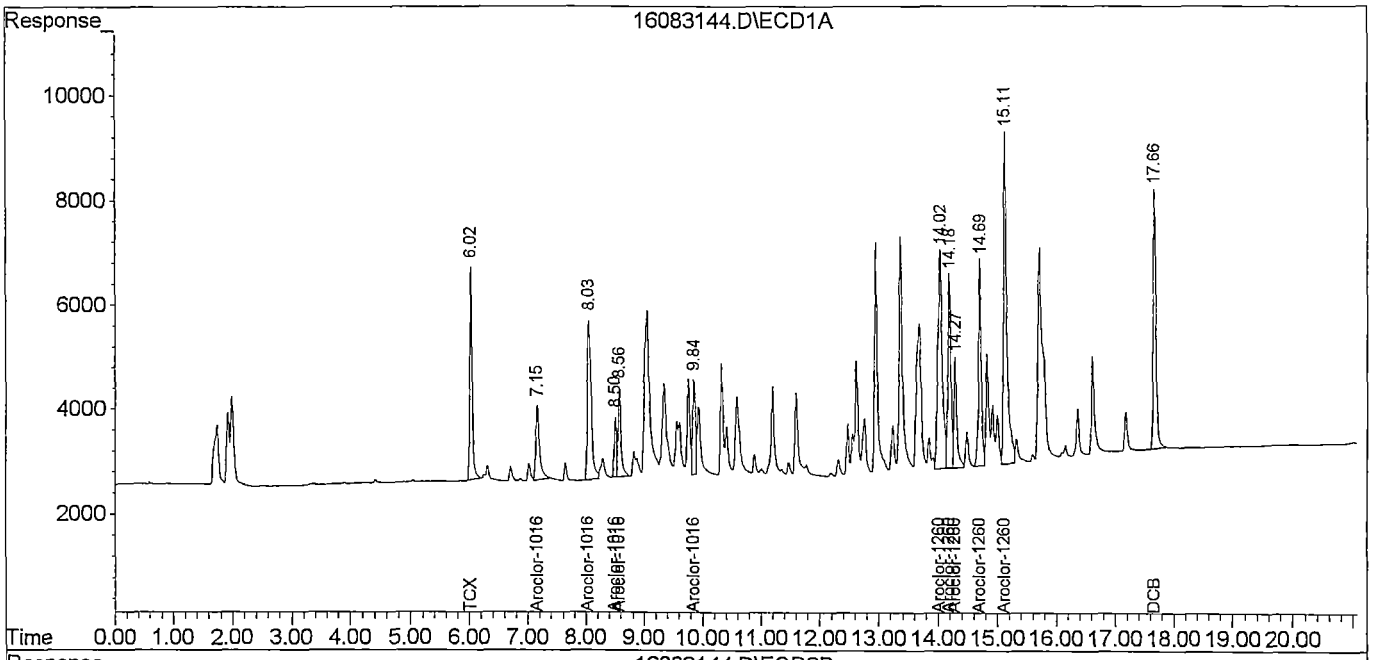
Chromatographic Report

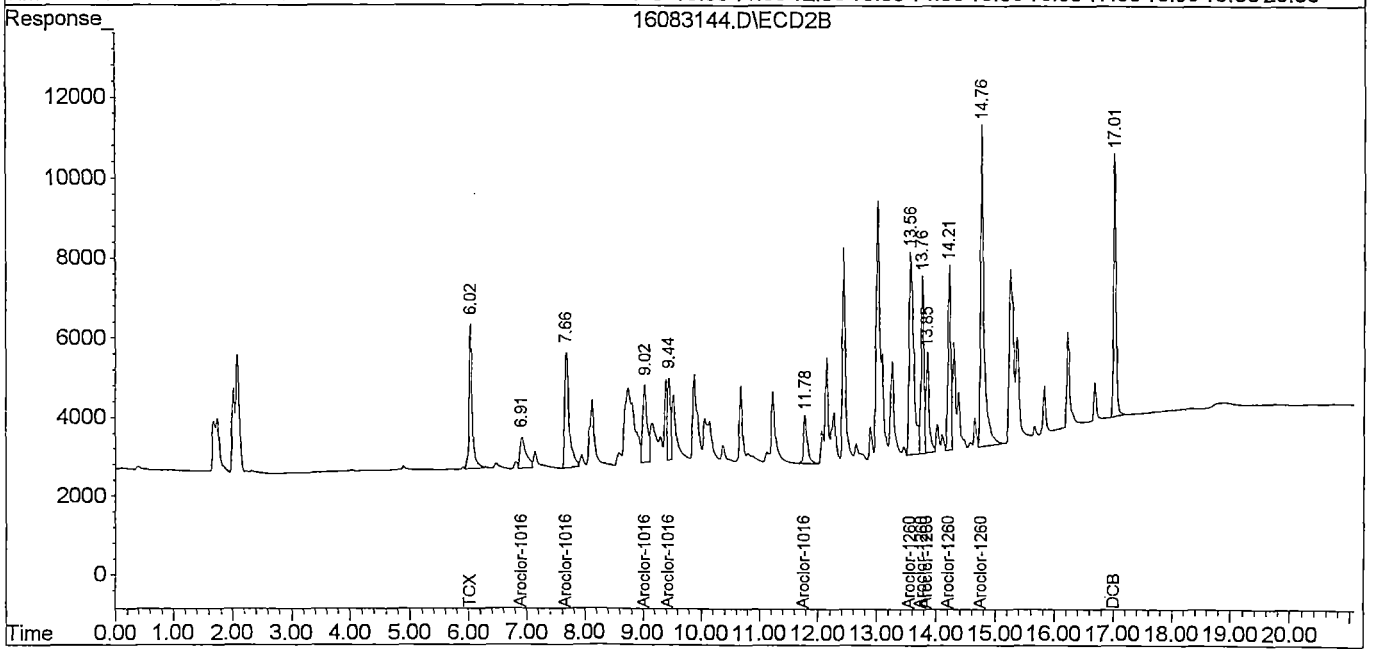
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083144.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083144.D\ECD2B.CH
Acq On : 01 Sep 2001 7:31 Operator: TLM
Sample : AR1660L3CR ✓ Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:42 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

ok 9-4-01 [illegible]





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083144.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083144.D\ECD2B.CH
Acq On : 01 Sep 2001 7:31 Operator: TLM
Sample : AR1660L3CR Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:42 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	114033	135965	22.4	22.2
22)	S DCB	17.66	17.02	155261	197058	17.7	21.9
	Target Compounds:						
2)	L1 Aroclor-1016	7.15	6.91	61353	59478	457.5	474.7
3)	L1 Aroclor-1016 {2}	8.04	7.67	142537	158799	450.3	441.5
4)	L1 Aroclor-1016 {3}	8.50	9.03	29962	108403	476.1	436.3
5)	L1 Aroclor-1016 {4}	8.57	9.44	60392	74040	460.0	434.7
6)	L1 Aroclor-1016 {5}	9.84	11.78	60250	53580	397.5	443.7
	Sum Aroclor-1016			354494	454301	2241.4	2231.0
	Average Aroclor-1016					448.274	446.192
17)	L7 Aroclor-1260	14.02	13.56	221426	278054	369.3	443.0
18)	L7 Aroclor-1260 {2}	14.18	13.76	118477	146143	359.2	430.8
19)	L7 Aroclor-1260 {3}	14.28	13.85	76109	93277	347.3	420.8
20)	L7 Aroclor-1260 {4}	14.70	14.22	123361	135813	365.6	438.3
21)	L7 Aroclor-1260 {5}	15.11	14.76	246393	328243	364.8	432.5
	Sum Aroclor-1260			785765	981530	1806.1	2165.5
	Average Aroclor-1260					361.225	433.098

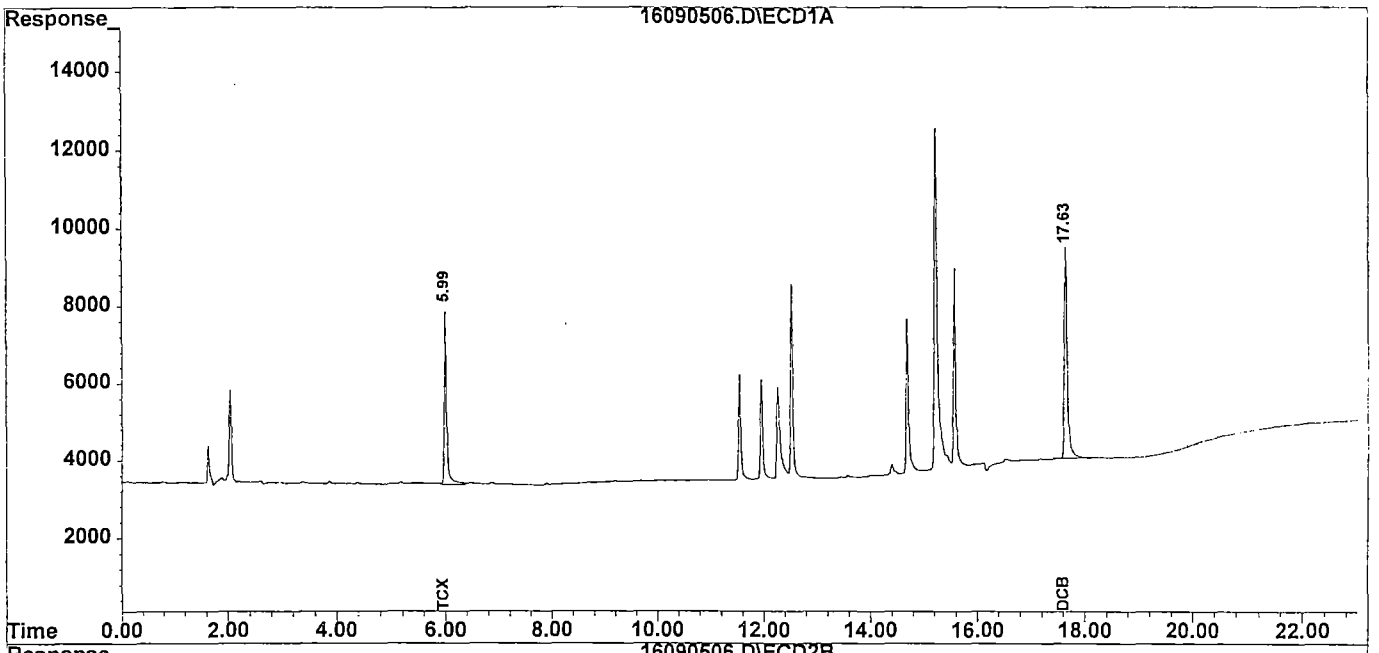
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

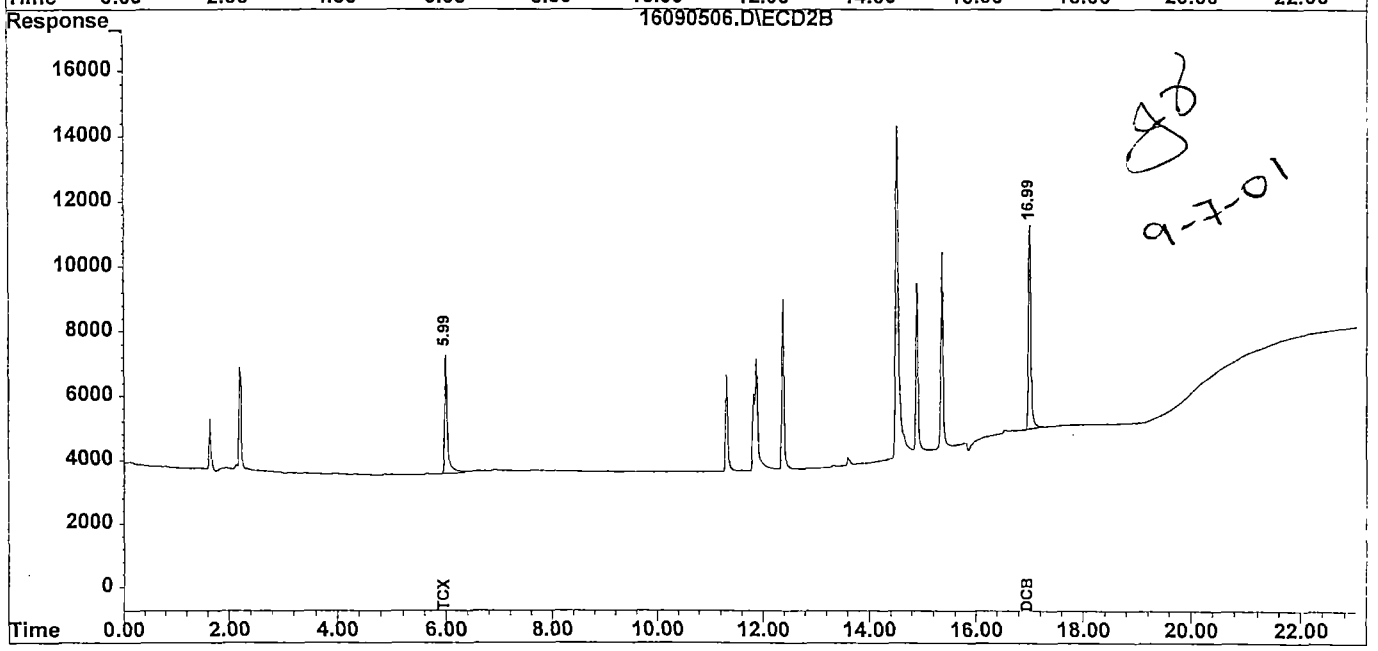
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090506.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090506.D\ECD2B.CH
Acq On : 05 Sep 2001 18:45 Operator: DDC
Sample : RESCCH Inst : HP_16
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:31 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





DB
9-7-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090506.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090506.D\ECD2B.CH
Acq On : 05 Sep 2001 18:45 Operator: DDC
Sample : RESCCH Inst : HP_16
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:31 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.00	5.99	143538	139263	23.7	22.3
22)	S DCB	17.64	16.99	209722	205094	21.7	22.9

Target Compounds:

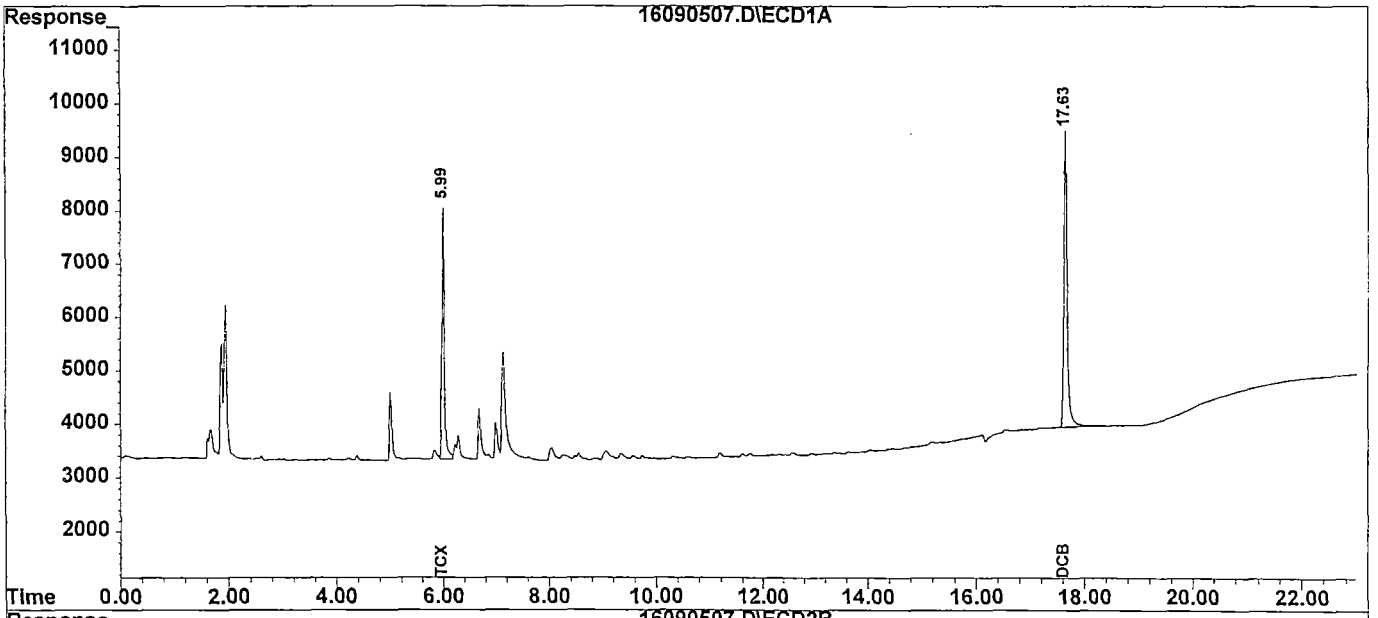
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

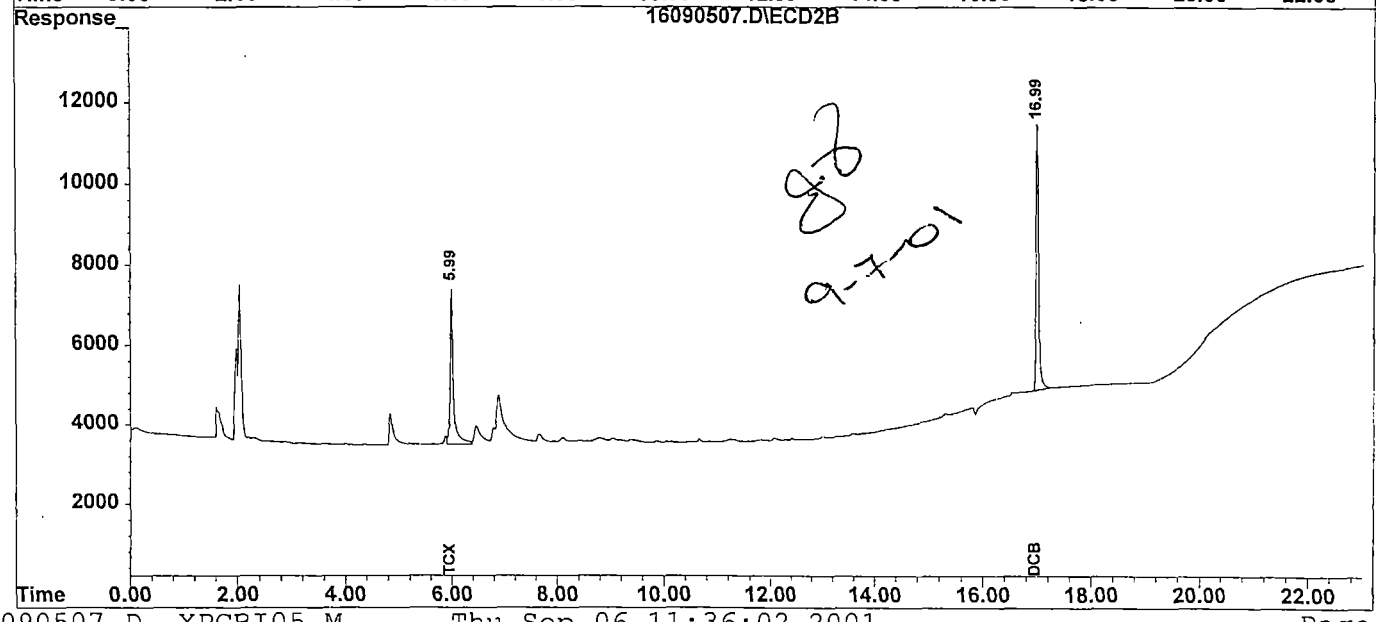
Chromatographic Report

```
Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090507.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090507.D\ECD2B.CH
Acq On    : 05 Sep 2001  19:11                        Operator: DDC
Sample    : AR1221L3CH                                Inst    : HP_16
Misc      : 5-420-6                                   Dilution: 1.00
IntFile Signal #1: events1.e     IntFile Signal #2: events2.e
Quant Time: Sep  6 11:31 2001  Quant Results File: XPCBI05.RES
Quant Time: Sep  6 11:32 2001  Quant Results File: xspcbi05.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-ICAL Path  : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update      : Wed Sep 05 14:36:59 2001

Multi-Component Method : f:\hpchem\hp\16\data\09_05_01\xspcbi05.m
Title                  : PCB/TOXAPHENE
Last Update            : Fri May 18 09:02:00 2001
Volume Inj.      : 0.5uL
Signal #1 Phase : RTX-PEST 2        Signal #2 Phase: RTX-PEST
Signal #1 Info  : .32 mm            Signal #2 Info : .32 mm
Signal #1 Inst  : HP_16A            Signal #2 Inst : HP_16B
```





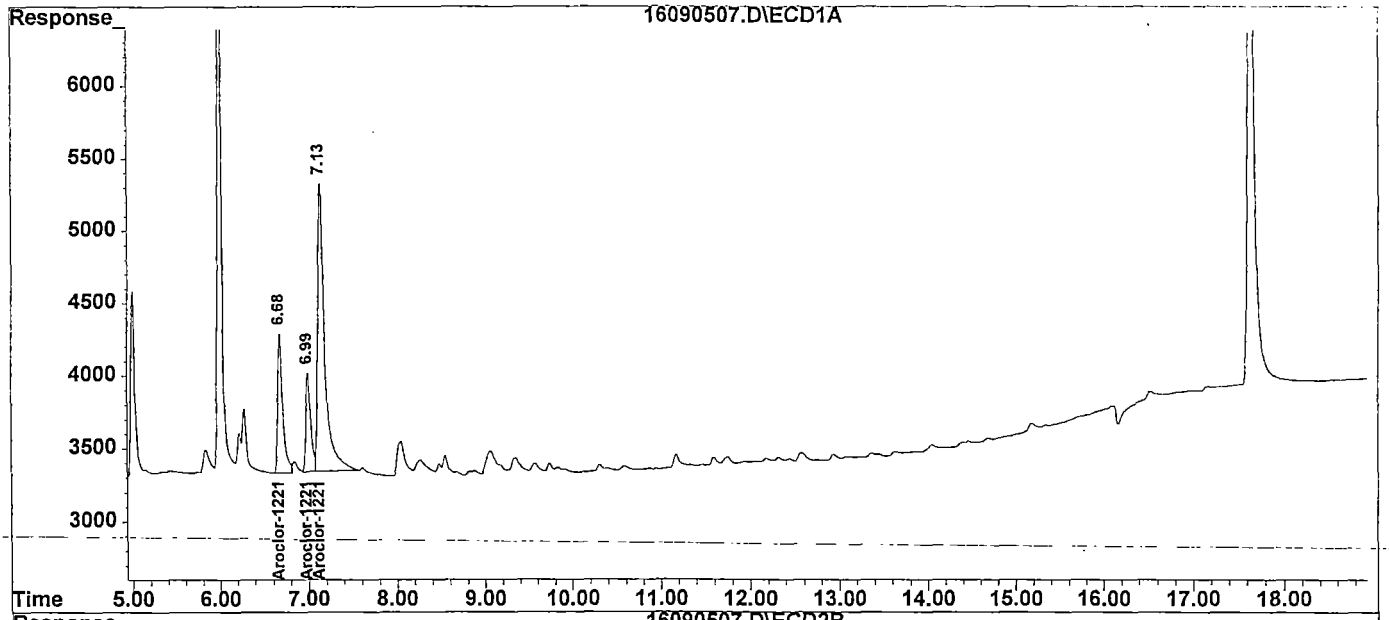
9-7-01

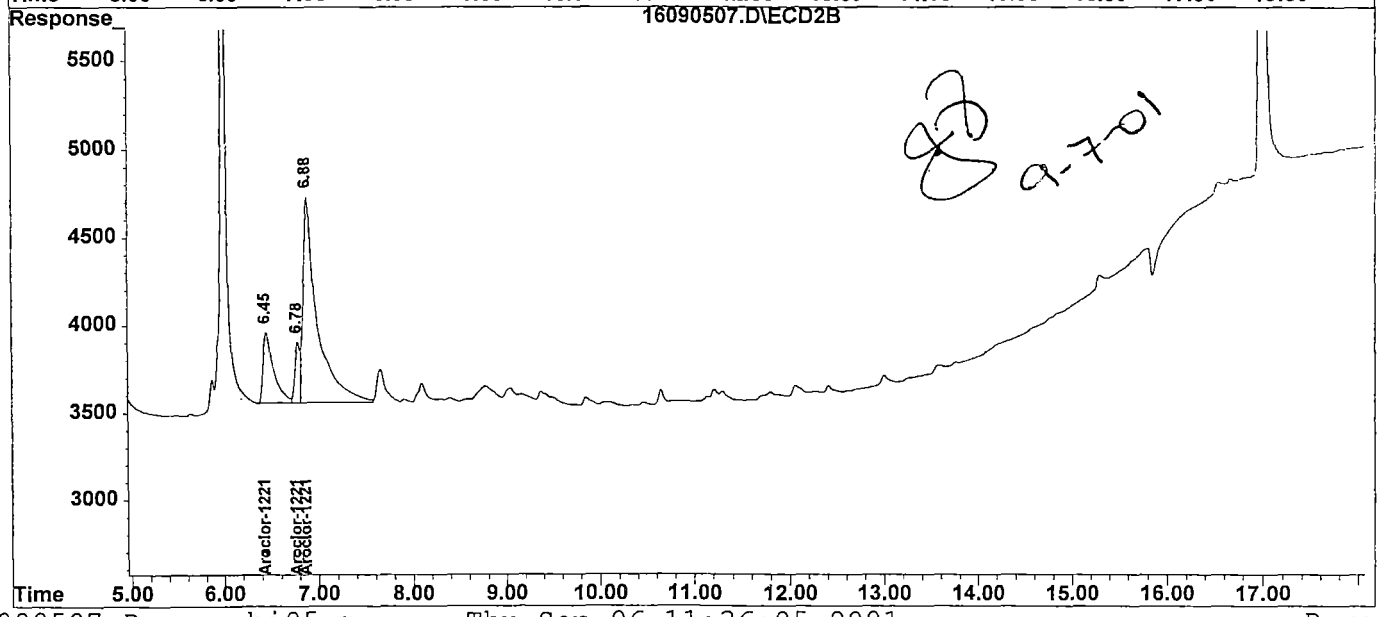
Chromatographic Report

```
Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090507.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090507.D\ECD2B.CH
Acq On    : 05 Sep 2001  19:11                        Operator: DDC
Sample    : AR1221L3CH                                Inst    : HP_16
Misc      : 5-420-6                                   Dilution: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e
Quant Time: Sep  6 11:32 2001  Quant Results File: xspcbi05.RES
Quant Time: Sep  6 11:32 2001  Quant Results File: xspcbi05.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-ICAL Path  : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update      : Wed Sep 05 14:36:59 2001

Multi-Component Method : f:\hpchem\hp\16\data\09_05_01\xspcbi05.m
Title                  : PCB/TOXAPHENE
Last Update            : Fri May 18 09:02:00 2001
Volume Inj.      : 0.5uL
Signal #1 Phase : RTX-PEST 2        Signal #2 Phase: RTX-PEST
Signal #1 Info  : .32               Signal #2 Info : .32
Signal #1 Inst  : HP_16A            Signal #2 Inst : HP_16B
```





9-7-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090507.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090507.D\ECD2B.CH
Acq On : 05 Sep 2001 19:11 Operator: DDC
Sample : AR1221L3CH Inst : HP_16
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:31 2001 Quant Results File: XPCBI05.RES
Multi Time: Sep 6 11:32 2001 Quant Results File: xspcbi05.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001

Multi-Component Method : f:\hpchem\hp\16\data\09_05_01\xspcbi05.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.99	5.99	145405	170550	24.0	27.3	
22)	S DCB	17.64	16.99	230153	224218	23.8	25.0	
	Target Compounds:							
	Multi-Component Compounds:							
2)	L2 Aroclor-1221	6.68	6.45	37507	30108	610.8	512.8	
3)	L2 Aroclor-1221 {2}	7.00	6.78	25536	12767	568.5	418.5	#
4)	L2 Aroclor-1221 {3}	7.14	6.88	109394	122487	583.9	537.3	
	Sum Aroclor-1221			172437	165363	1763.1	1468.6	
	Average Aroclor-1221					587.712	489.527	

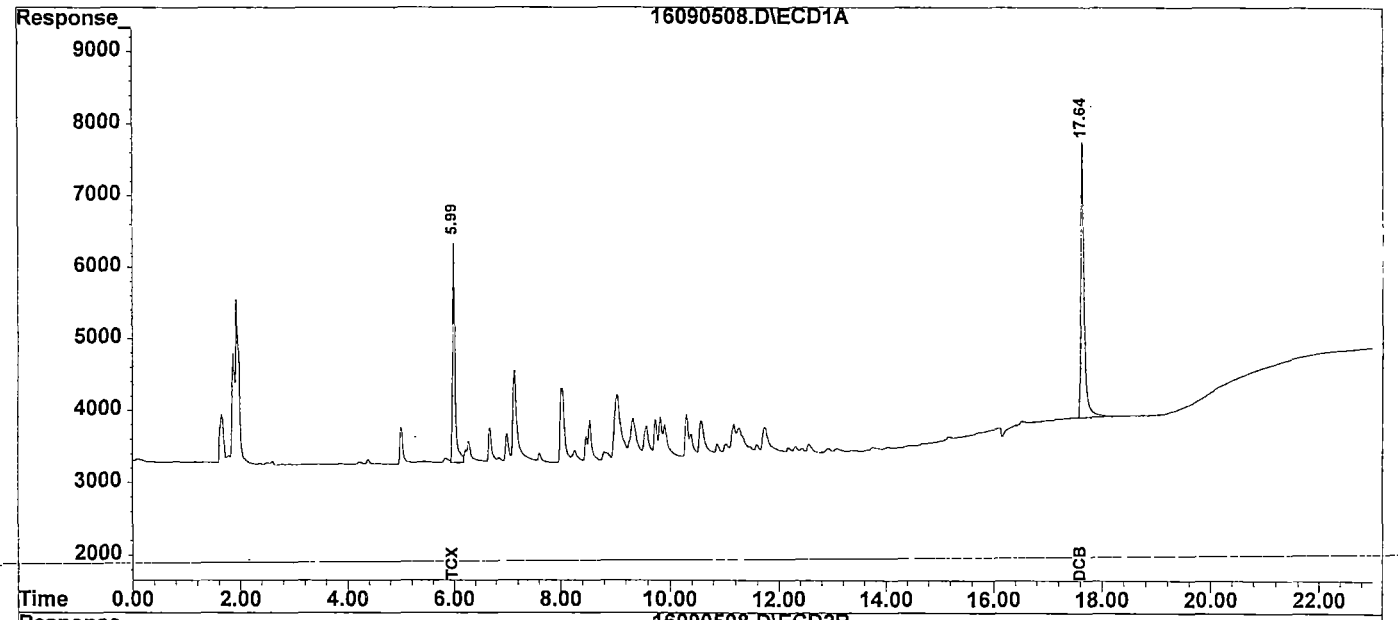
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

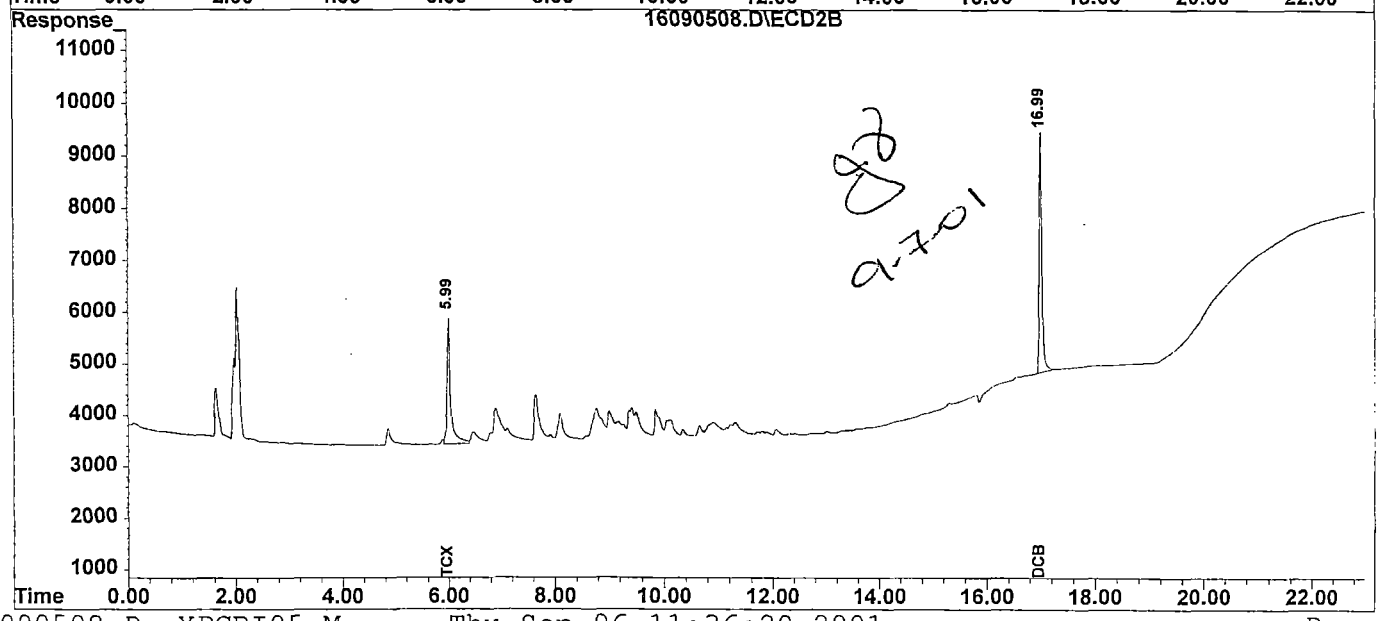
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090508.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090508.D\ECD2B.CH
Acq On : 05 Sep 2001 19:38 Operator: DDC
Sample : AR1232L3CH Inst : HP_16
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:33 2001 Quant Results File: XPCBI05.RES
Quant Time: Sep 6 11:33 2001 Quant Results File: xspcbi05.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001

Multi-Component Method : f:\hpchem\hp\16\data\09_05_01\xspcbi05.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





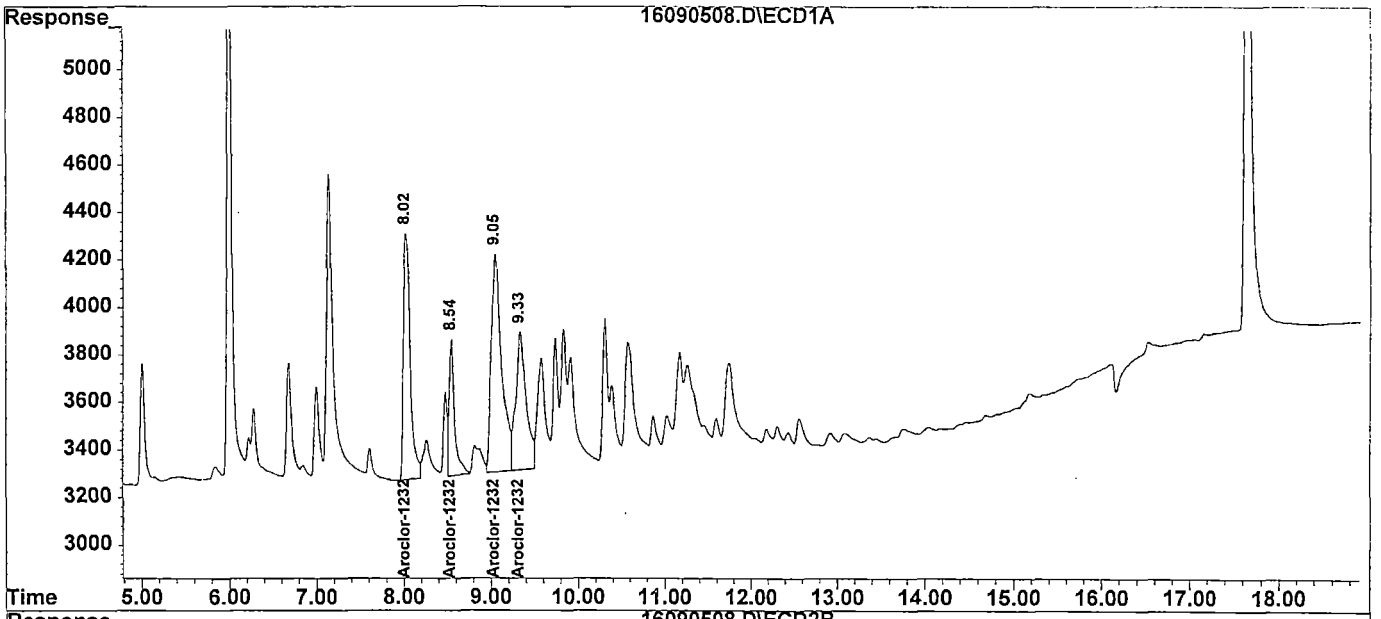
9-7-01

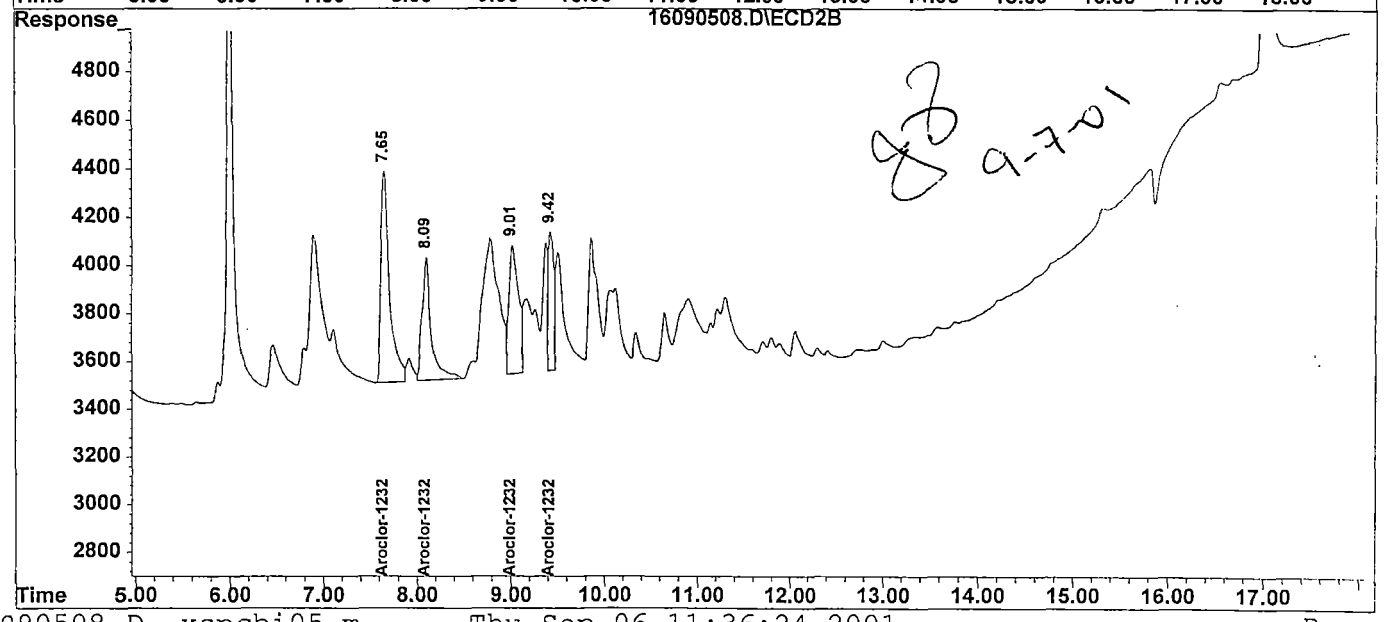
Chromatographic Report

```
Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090508.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090508.D\ECD2B.CH
Acq On    : 05 Sep 2001  19:38                        Operator: DDC
Sample    : AR1232L3CH                                Inst    : HP_16
Misc      : 5-422-6                                   Dilution: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e
Quant Time: Sep  6 11:33 2001  Quant Results File: xspcbi05.RES
Quant Time: Sep  6 11:33 2001  Quant Results File: xspcbi05.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-ICAL Path  : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update      : Wed Sep 05 14:36:59 2001

Multi-Component Method : f:\hpchem\hp\16\data\09_05_01\xspcbi05.m
Title                  : PCB/TOXAPHENE
Last Update            : Fri May 18 09:02:00 2001
Volume Inj.      : 0.5uL
Signal #1 Phase : RTX-PEST 2        Signal #2 Phase: RTX-PEST
Signal #1 Info  : .32               Signal #2 Info : .32
Signal #1 Inst  : HP_16A            Signal #2 Inst : HP_16B
```





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090508.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090508.D\ECD2B.CH
Acq On : 05 Sep 2001 19:38 Operator: DDC
Sample : AR1232L3CH Inst : HP_16
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:33 2001 Quant Results File: XPCBI05.RES
Multi Time: Sep 6 11:33 2001 Quant Results File: xspcbi05.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001

Multi-Component Method : f:\hpchem\hp\16\data\09_05_01\xspcbi05.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.00	6.00	104447	117952	17.2	18.8
22)	S DCB	17.64	16.99	163213	155739	16.9	17.4
	Target Compounds:						
	Multi-Component Compounds:						
5)	L3 Aroclor-1232	8.02	7.65	57191	55819	445.4	384.4
6)	L3 Aroclor-1232 {2}	8.55	8.10f	24877	35248	431.7	406.2
7)	L3 Aroclor-1232 {3}	9.05	9.01	75464	37473	410.5	369.4
8)	L3 Aroclor-1232 {4}	9.33	9.42	47981	23589	459.1	372.5
	Sum Aroclor-1232			205513	152129	1746.8	1532.6
	Average Aroclor-1232					436.690	383.143

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

Response Factor Report HP_16

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Calibration Files
L1 =16090509.D L2 =16090510.D L3 =16090511.D
L4 =16090512.D L5 =16090513.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
7) Aroclor-1242	129.4	119.0	119.7	135.6	120.5	124.8	5.88
8) Aroclor-1242 {2}	307.3	277.6	274.1	296.8	258.3	282.8	6.84
9) Aroclor-1242 {3}	252.7	243.5	248.7	281.2	248.0	254.8	5.92
10) Aroclor-1242 {4}	121.1	116.8	119.7	137.9	120.3	123.1	6.80
11) Aroclor-1242 {5}	128.2	123.4	128.9	156.8	141.6	135.8	9.98

Signal #2 Calibration Files
L1 =16090509.D L2 =16090510.D L3 =16090511.D
L4 =16090512.D L5 =16090513.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
30) Aroclor-1242 #2	305.0	276.6	274.6	302.4	264.6	284.6	6.32
31) Aroclor-1242 {2} #2	169.9	174.7	175.8	200.2	179.6	180.0	6.55
32) Aroclor-1242 {3} #2	203.1	192.9	188.4	210.8	186.7	196.4	5.23
33) Aroclor-1242 {4} #2	102.5	95.8	94.6	106.6	91.1	98.1	6.44
34) Aroclor-1242 {5} #2	23.6	31.2	32.1	36.0	31.0	30.8	14.59

(#) = Out of Range

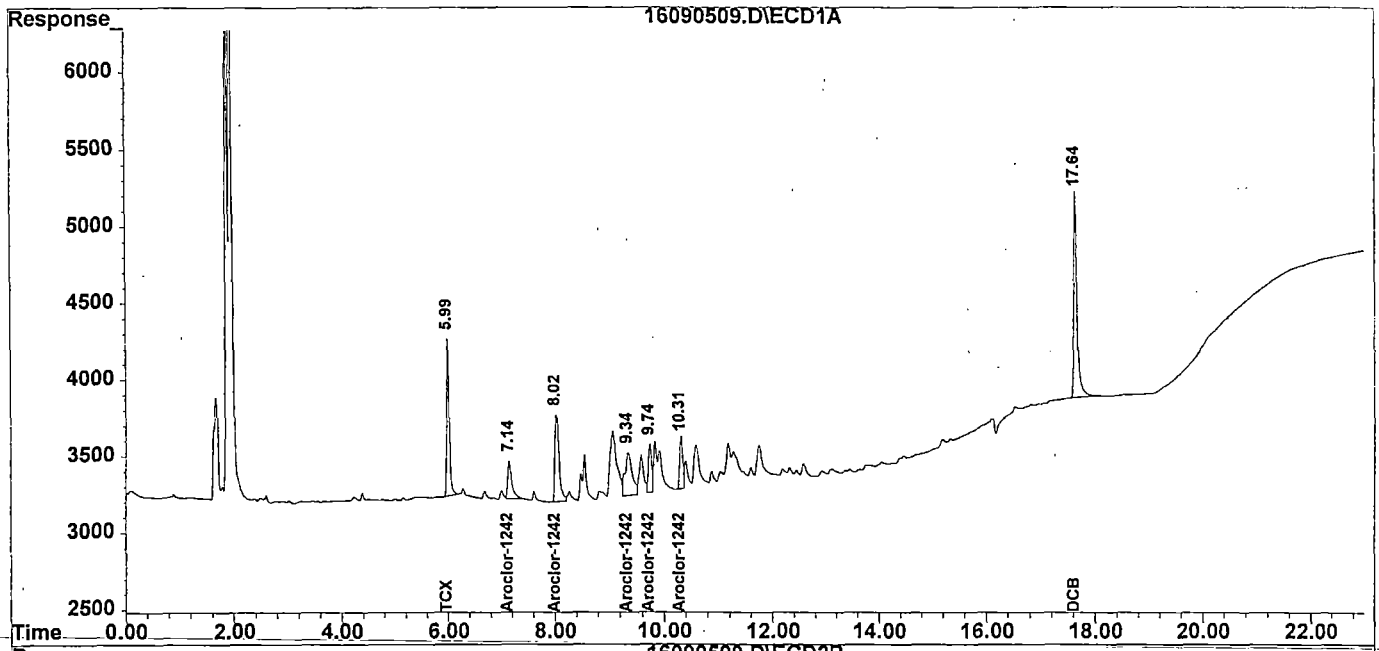
XPCBI05.M Thu Sep 06 11:12:59 2001

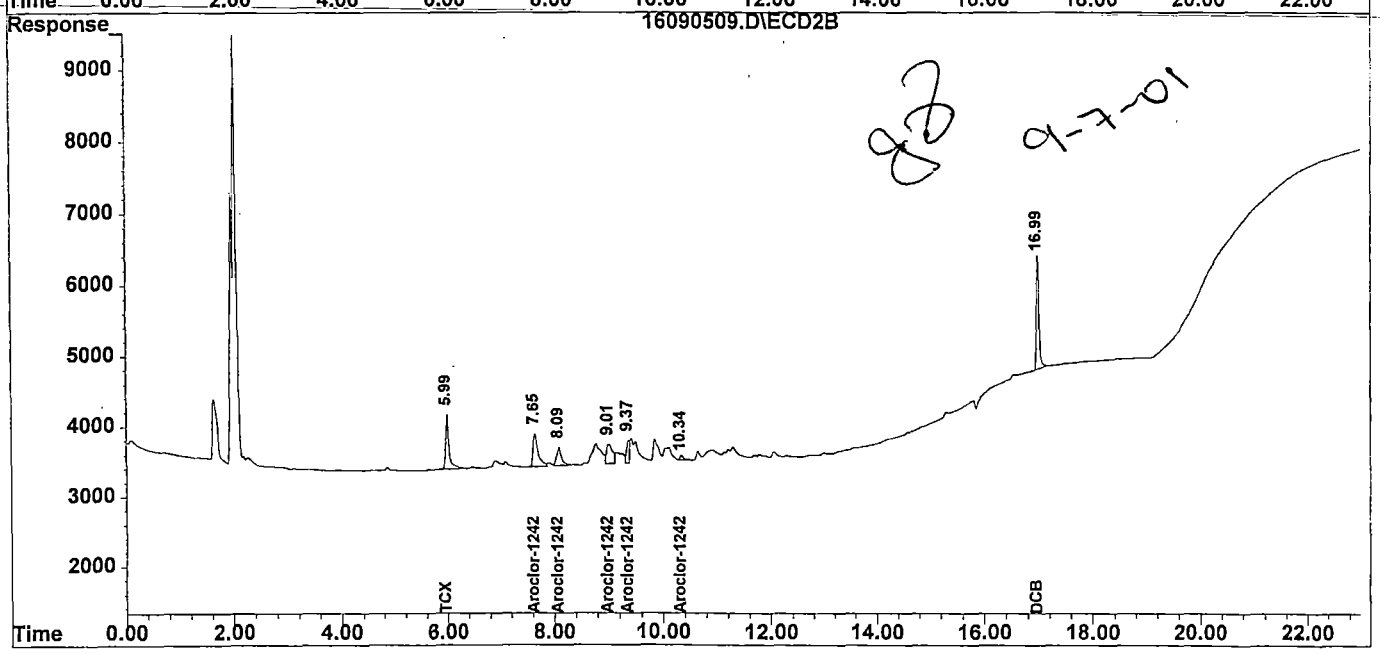
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090509.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090509.D\ECD2B.CH
Acq On : 05 Sep 2001 20:04 Operator: DDC
Sample : AR1242L1CH Inst : HP_16
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:11 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_04_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090509.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090509.D\ECD2B.CH
Acq On : 05 Sep 2001 20:04 Operator: DDC
Sample : AR1242L1CH Inst : HP_16
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:11 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_04_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	6.00	6.00	32076	33938	4.843	4.833	
22)	S DCB	17.64	17.00	57404	51724	5.611	5.072	
	Target Compounds:							
7)	L4 Aroclor-1242	7.14	7.65	12944	30497	103.7	106.9	
8)	L4 Aroclor-1242 {2}	8.02	8.10	30729	16989	108.7	92.1	
9)	L4 Aroclor-1242 {3}	9.34	9.02	25269	20309	99.2	100.1	
10)	L4 Aroclor-1242 {4}	9.74	9.37	12107	10251	98.3	100.0	
11)	L4 Aroclor-1242 {5}	10.31	10.34	12816	2360	94.4	39.0	#
	Sum Aroclor-1242			93864	80407	504.2	438.0	
	Average Aroclor-1242					100.841	87.601	

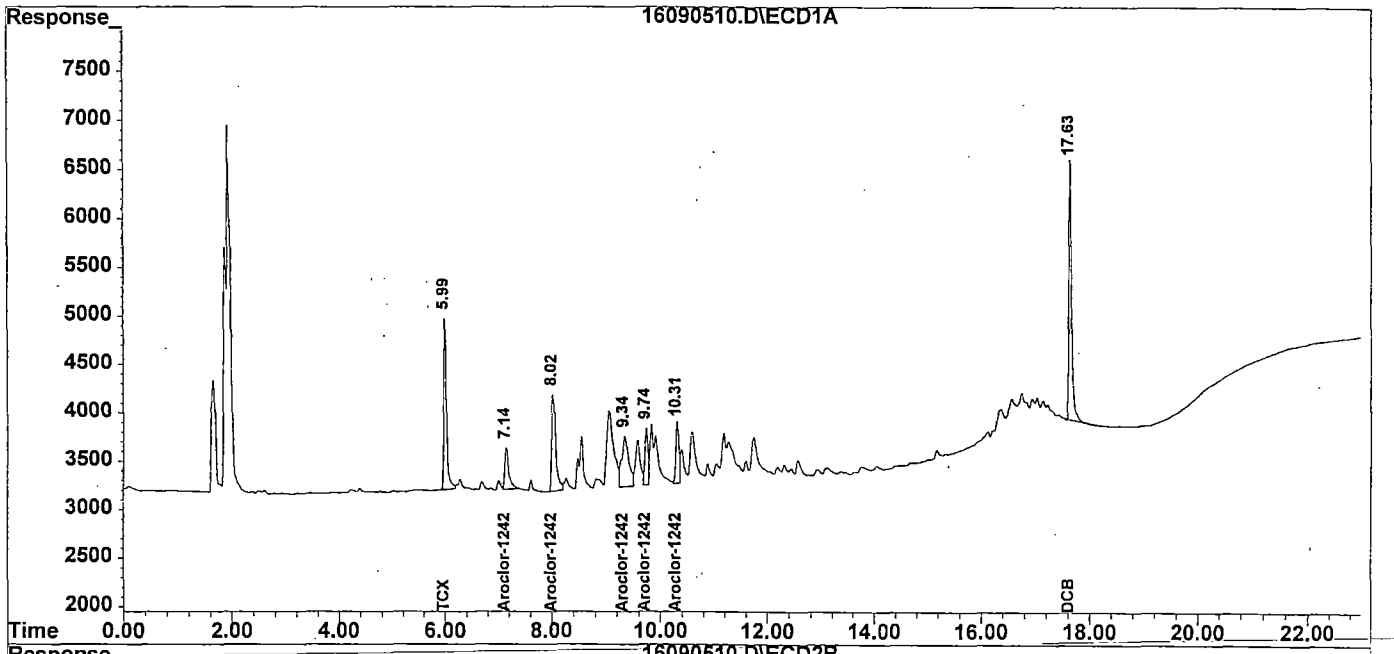
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

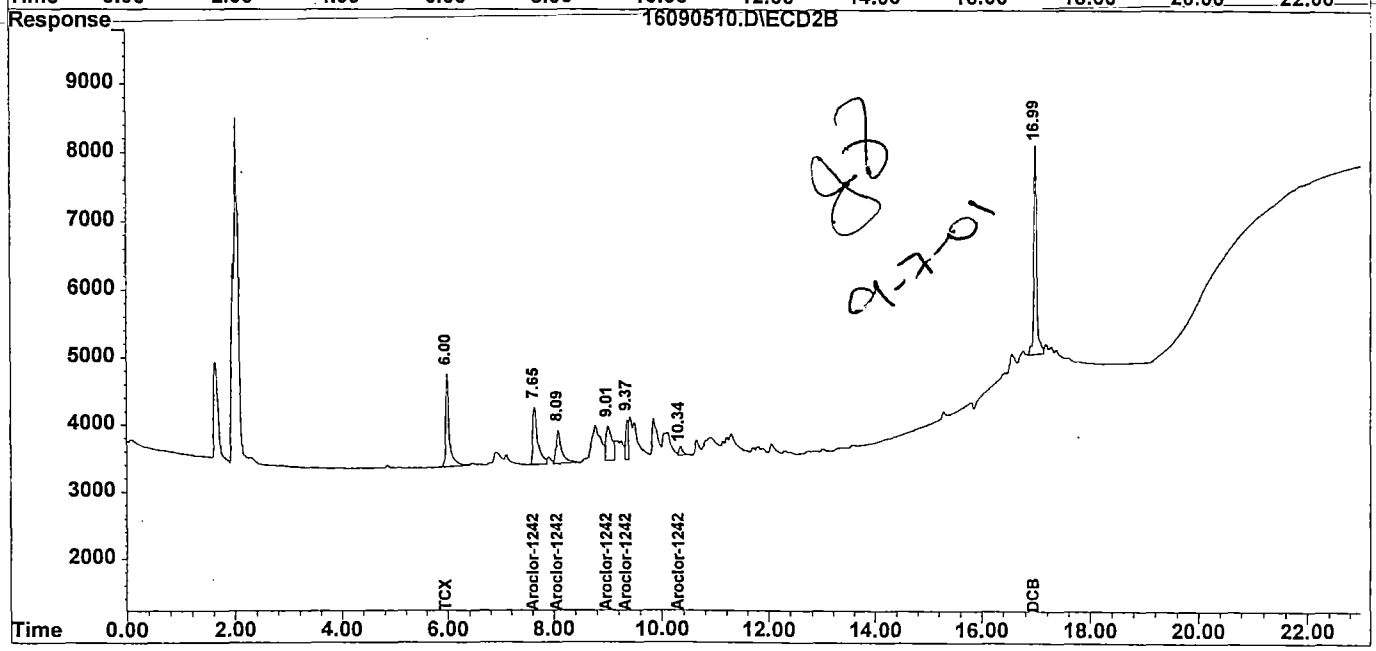
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090510.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090510.D\ECD2B.CH
Acq On : 05 Sep 2001 20:31 Operator: DDC
Sample : AR1242L2CH Inst : HP_16
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:11 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-7-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090510.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090510.D\ECD2B.CH
Acq On : 05 Sep 2001 20:31 Operator: DDC
Sample : AR1242L2CH Inst : HP_16
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:11 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	6.00	6.00	61327	63961	9.259	9.108	
22)	S DCB	17.64	16.99	96456	109309	9.428	10.7	
	Target Compounds:							
7)	L4 Aroclor-1242	7.15	7.65	23792	55320	190.6	193.8	
8)	L4 Aroclor-1242 {2}	8.02	8.10	55515	34939	196.3	189.5	
9)	L4 Aroclor-1242 {3}	9.34	9.01	48705	38584	191.1	190.1	
10)	L4 Aroclor-1242 {4}	9.74	9.37	23369	19160	189.8	186.9	
11)	L4 Aroclor-1242 {5}	10.31	10.34	24676	6231	181.7	102.8	#
	Sum Aroclor-1242			176057	154234	949.5	863.2	
	Average Aroclor-1242					189.903	172.633	

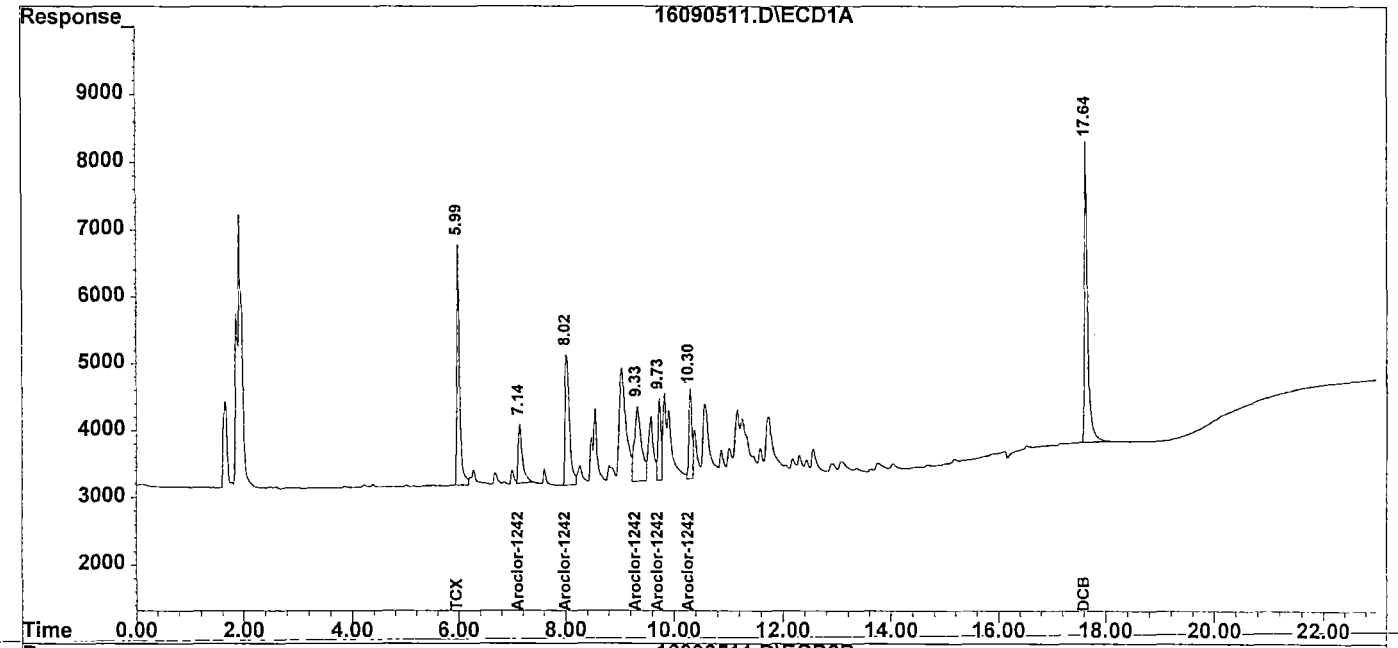
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

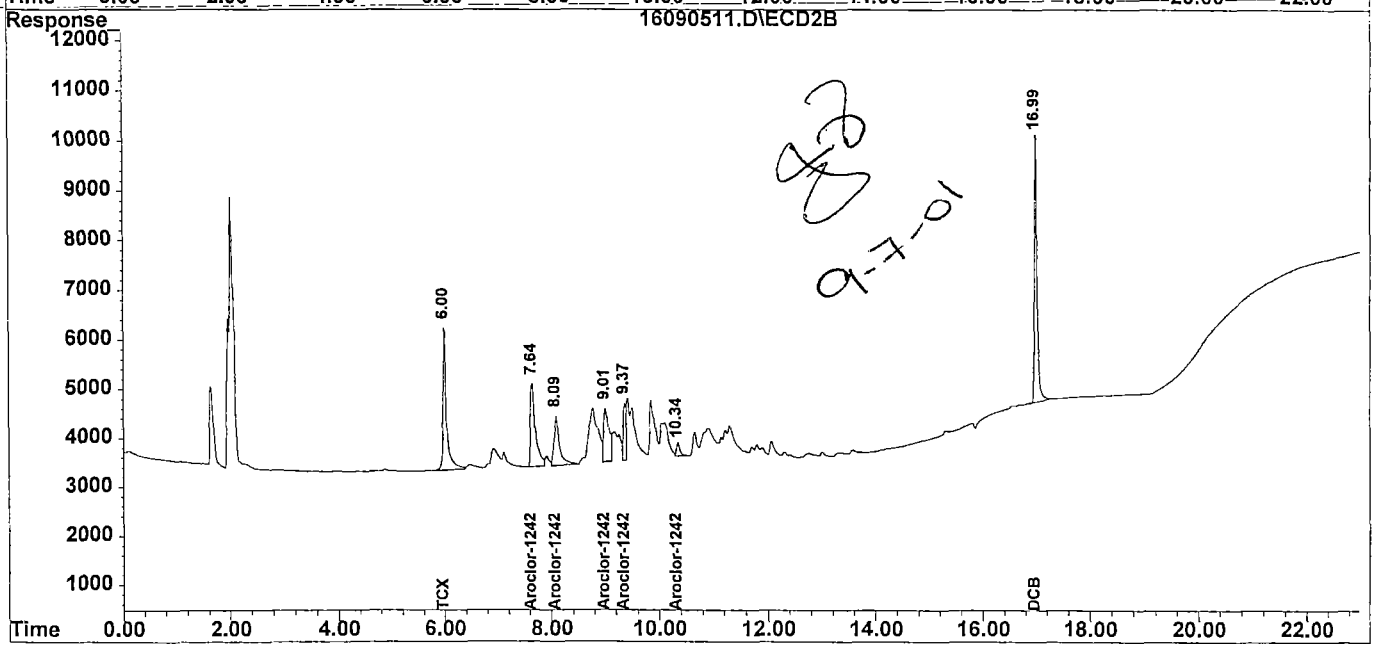
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090511.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090511.D\ECD2B.CH
Acq On : 05 Sep 2001 20:57 Operator: DDC
Sample : AR1242L3CH Inst : HP_16
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:12 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-7-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090511.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090511.D\ECD2B.CH
Acq On : 05 Sep 2001 20:57 Operator: DDC
Sample : AR1242L3CH Inst : HP_16
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:12 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	6.00	6.00	127514	135966	19.3	19.4	
22)	S DCB	17.64	16.99	191708	187191	18.7	18.4	
	Target Compounds:							
7)	L4 Aroclor-1242	7.14	7.64	47892	109829	383.6	384.9	
8)	L4 Aroclor-1242 {2}	8.02	8.10	109627	70310	387.6	381.3	
9)	L4 Aroclor-1242 {3}	9.33	9.01	99483	75373	390.4	371.6	
10)	L4 Aroclor-1242 {4}	9.74	9.37	47878	37820	388.8	369.3	
11)	L4 Aroclor-1242 {5}	10.30	10.34	51572	12838	379.9	213.5	#
	Sum Aroclor-1242			356452	306170	1930.3	1720.6	
	Average Aroclor-1242					386.058	344.130	

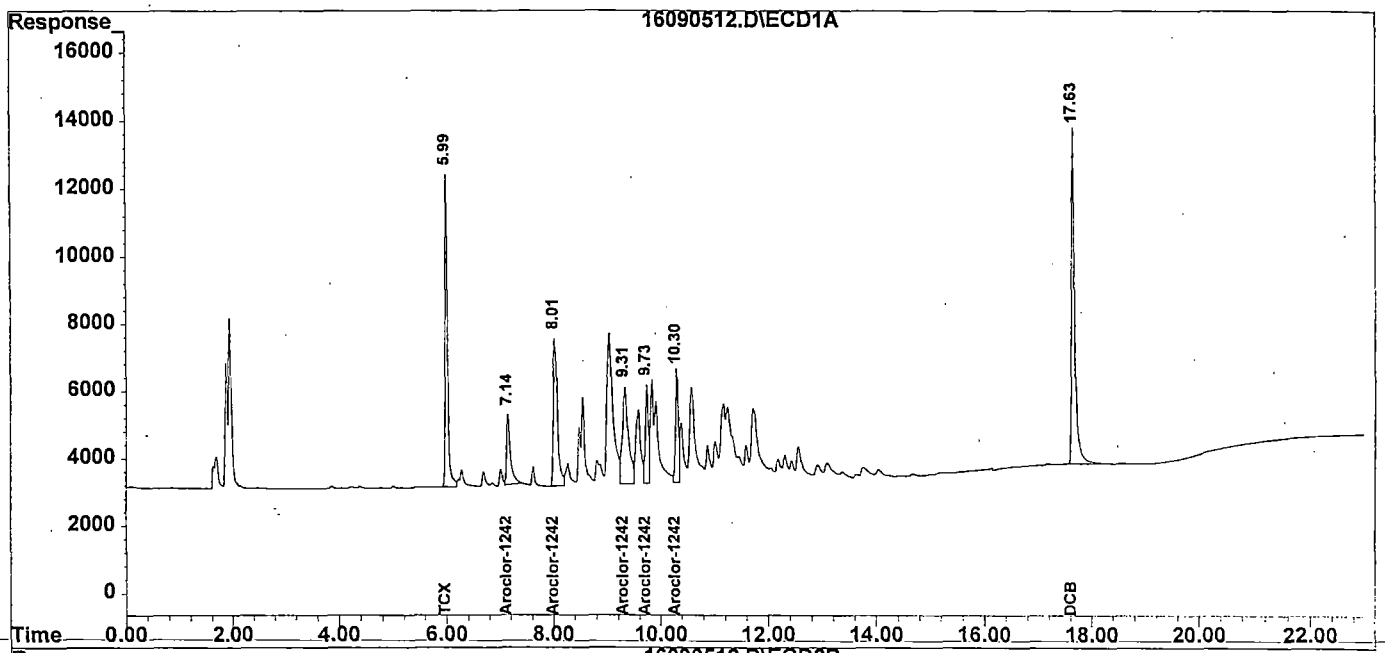
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

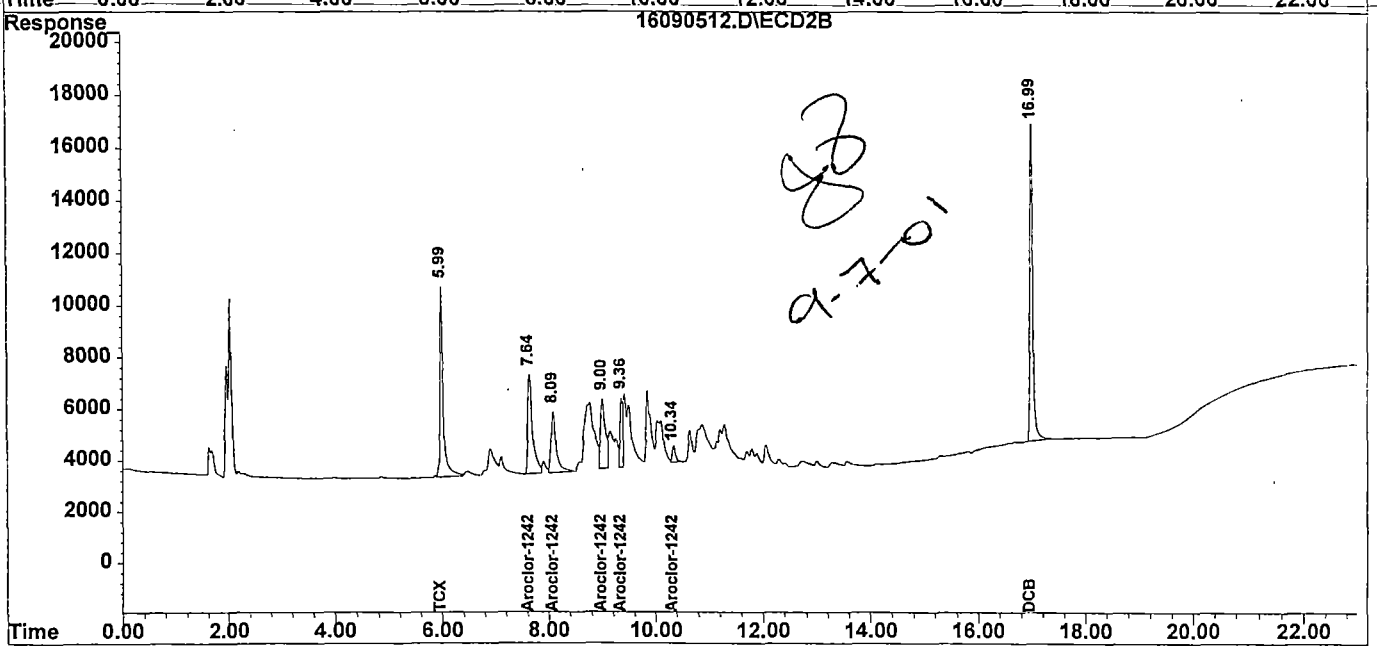
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090512.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090512.D\ECD2B.CH
Acq On : 05 Sep 2001 21:23 Operator: DDC
Sample : AR1242L4CH Inst : HP_16
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:12 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





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9-7-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090512.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090512.D\ECD2B.CH
Acq On : 05 Sep 2001 21:23 Operator: DDC
Sample : AR1242L4CH Inst : HP_16
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:12 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.99	5.99	293718	312475	44.3	44.5	
22)	S DCB	17.64	16.99	439697	433084	43.0	42.5	
	Target Compounds:							
7)	L4 Aroclor-1242	7.14	7.64	108448	241926	868.7	847.8	
8)	L4 Aroclor-1242 {2}	8.02	8.09	237446	160163	839.6	869.5	
9)	L4 Aroclor-1242 {3}	9.32	9.01	224928	168677	882.7	837.1	
10)	L4 Aroclor-1242 {4}	9.73	9.36	110283	85320	895.5	840.6	
11)	L4 Aroclor-1242 {5}	10.30	10.34	125439	28794	923.9	541.2	#
	Sum Aroclor-1242			806543	684880	4410.4	3936.3	
	Average Aroclor-1242					882.082	787.258	

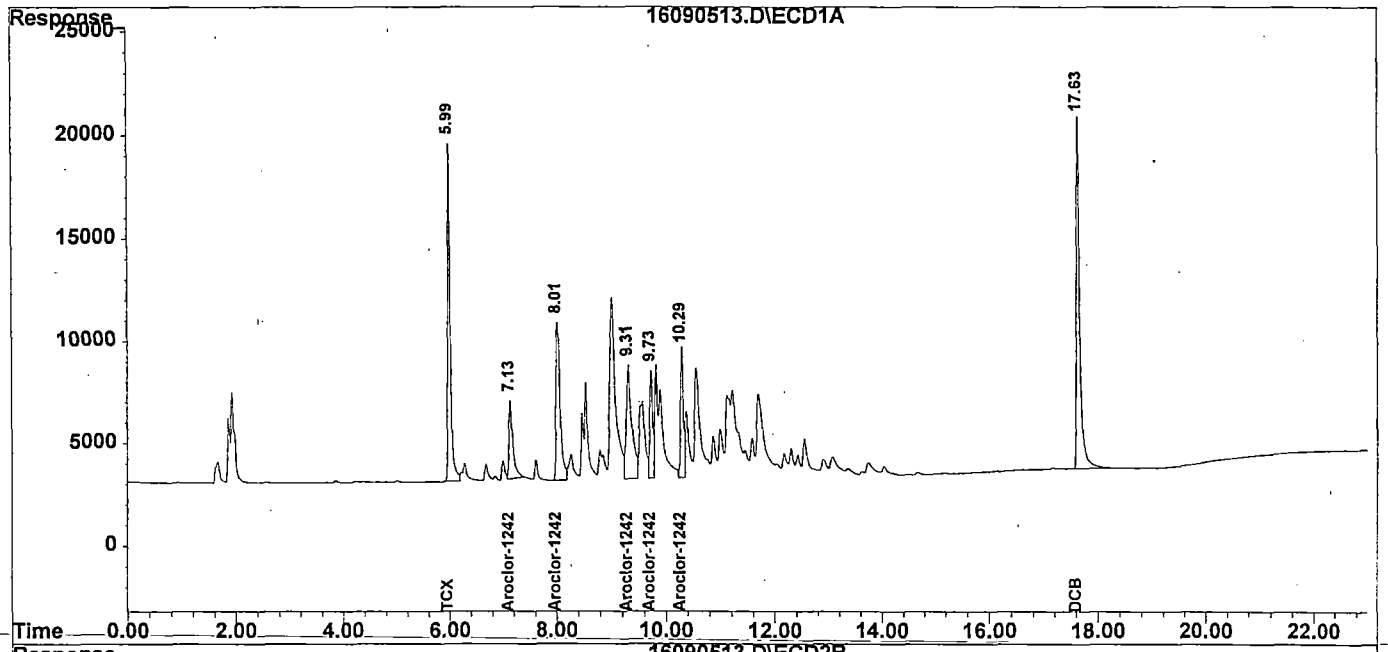
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

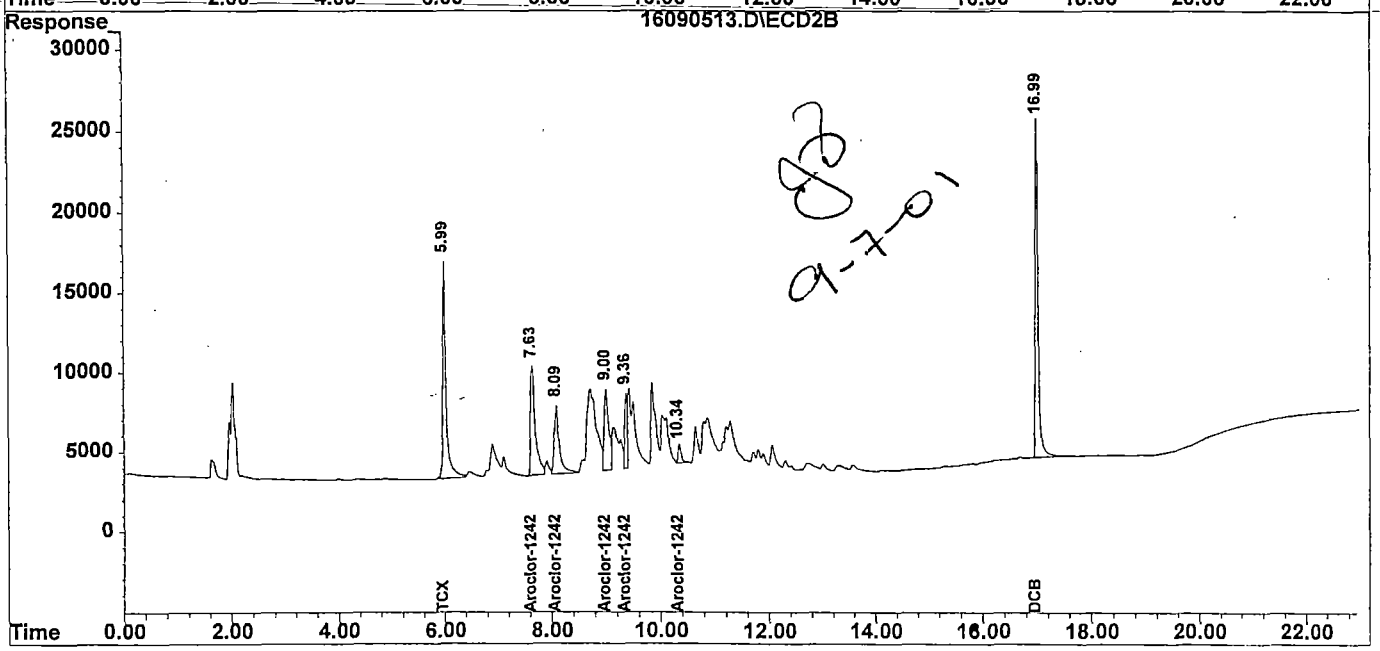
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090513.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090513.D\ECD2B.CH
Acq On : 05 Sep 2001 21:50 Operator: DDC
Sample : AR1242L5CH Inst : HP_16
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:12 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-7-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090513.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090513.D\ECD2B.CH
Acq On : 05 Sep 2001 21:50 Operator: DDC
Sample : AR1242L5CH Inst : HP_16
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:12 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.99	5.99	547961	585447	82.7	83.4	
22)	S DCB	17.64	16.99	755888	762326	73.9 E	74.8 E	
	Target Compounds:							
7)	L4 Aroclor-1242	7.14	7.64	192837	423405	1544.6	1484.7	
8)	L4 Aroclor-1242 {2}	8.01	8.09	413349	287426	1461.5	1568.4	
9)	L4 Aroclor-1242 {3}	9.31	9.00	396787	298762	1557.2 E	1496.8	
10)	L4 Aroclor-1242 {4}	9.73	9.36	192465	145736	1562.9	1454.8	
11)	L4 Aroclor-1242 {5}	10.30	10.34	226521	49623	1668.4	1130.8	#
	Sum Aroclor-1242			1421958	1204953	7794.6	7135.5	
	Average Aroclor-1242					1558.929	1427.095	

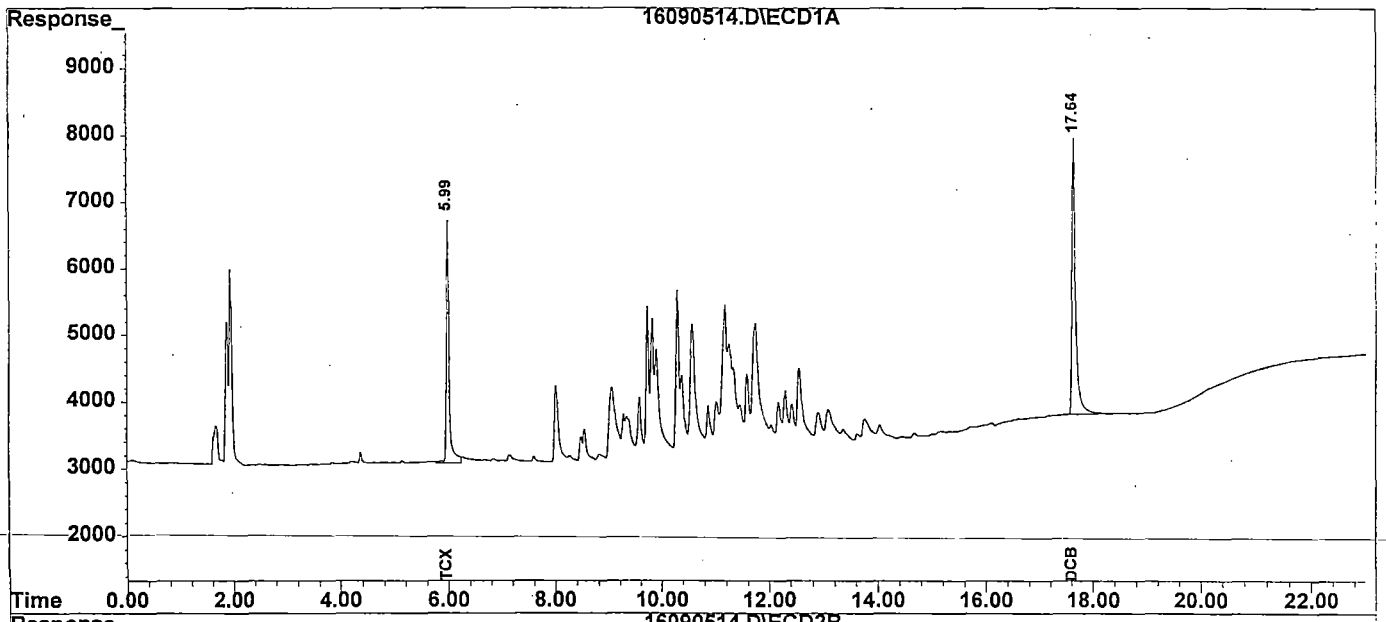
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

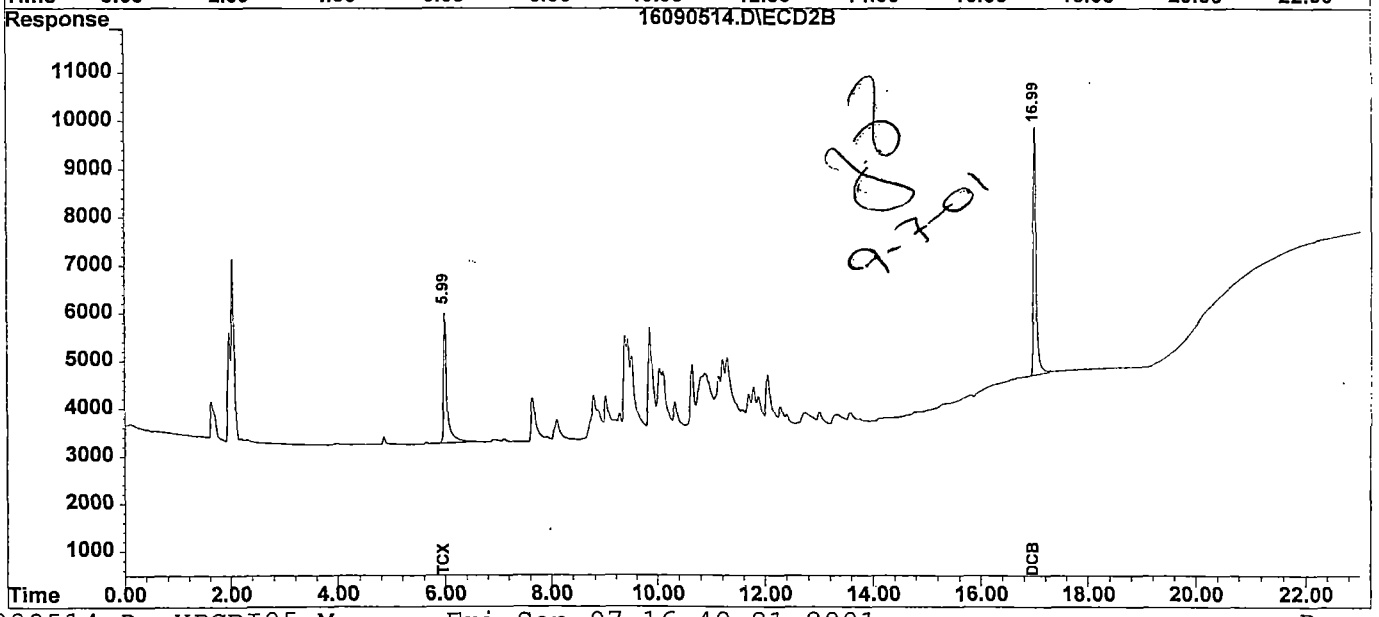
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090514.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090514.D\ECD2B.CH
Acq On : 05 Sep 2001 22:16 Operator: DDC
Sample : AR1248L3CH Inst : HP_16
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:34 2001 Quant Results File: XPCBI05.RES
Quant Time: Sep 7 16:39 2001 Quant Results File: xspcbi05.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001

Multi-Component Method : f:\hpchem\hp\16\data\09_05_01\xspcbi05.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





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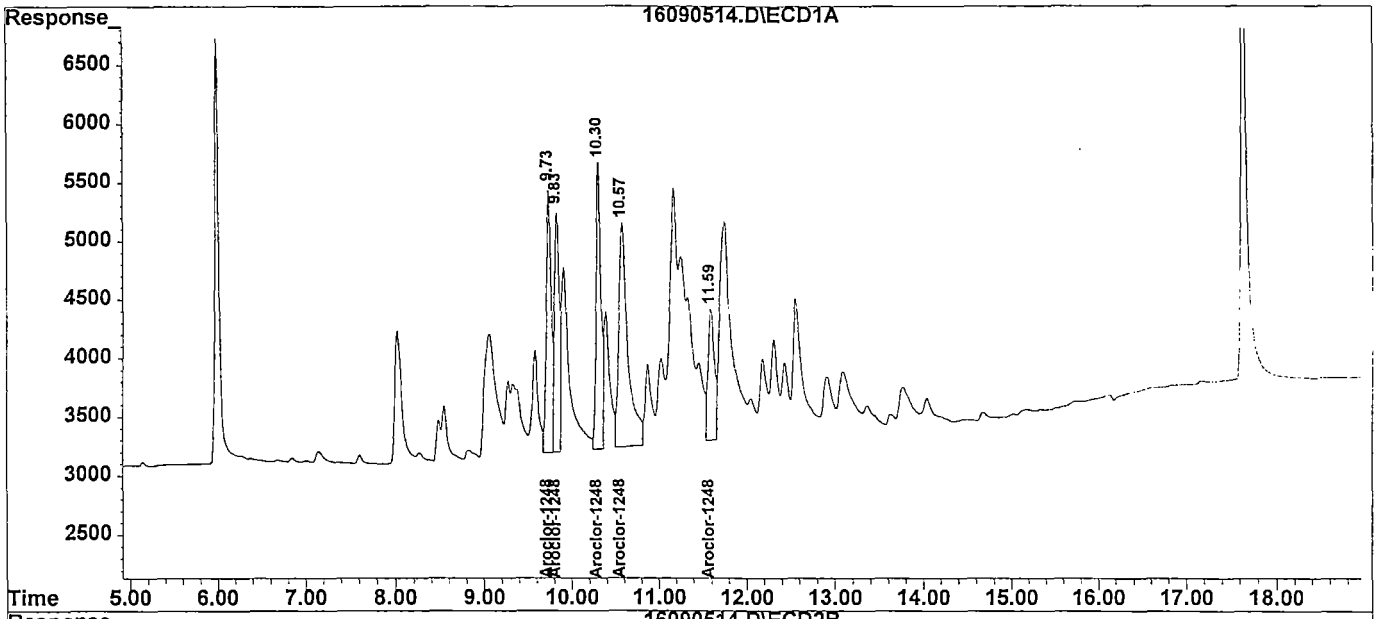
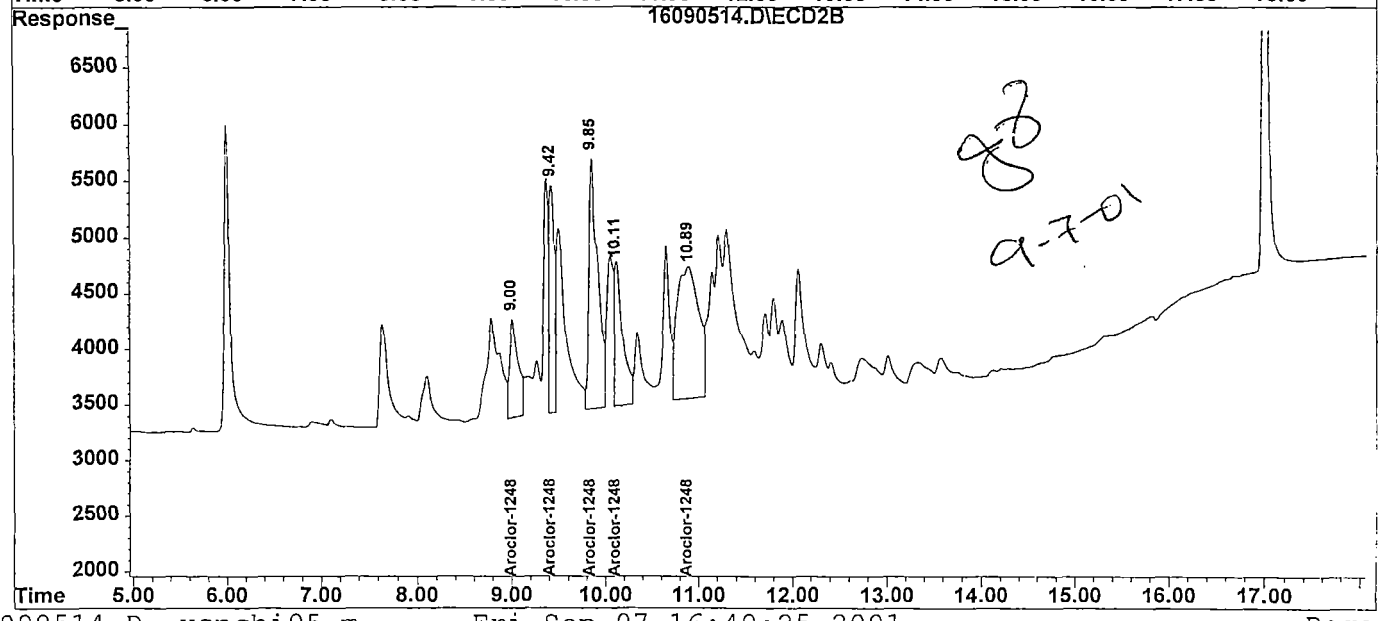
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090514.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090514.D\ECD2B.CH
Acq On : 05 Sep 2001 22:16 Operator: DDC
Sample : AR1248L3CH Inst : HP_16
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 7 16:39 2001 Quant Results File: xspcbi05.RES
Quant Time: Sep 7 16:39 2001 Quant Results File: xspcbi05.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001

Multi-Component Method : f:\hpchem\hp\16\data\09_05_01\xspcbi05.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-7-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090514.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090514.D\ECD2B.CH
Acq On : 05 Sep 2001 22:16 Operator: DDC
Sample : AR1248L3CH Inst : HP_16
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:34 2001 Quant Results File: XPCBI05.RES
Multi Time: Sep 7 16:39 2001 Quant Results File: xspcbi05.RES

Pesticide Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001

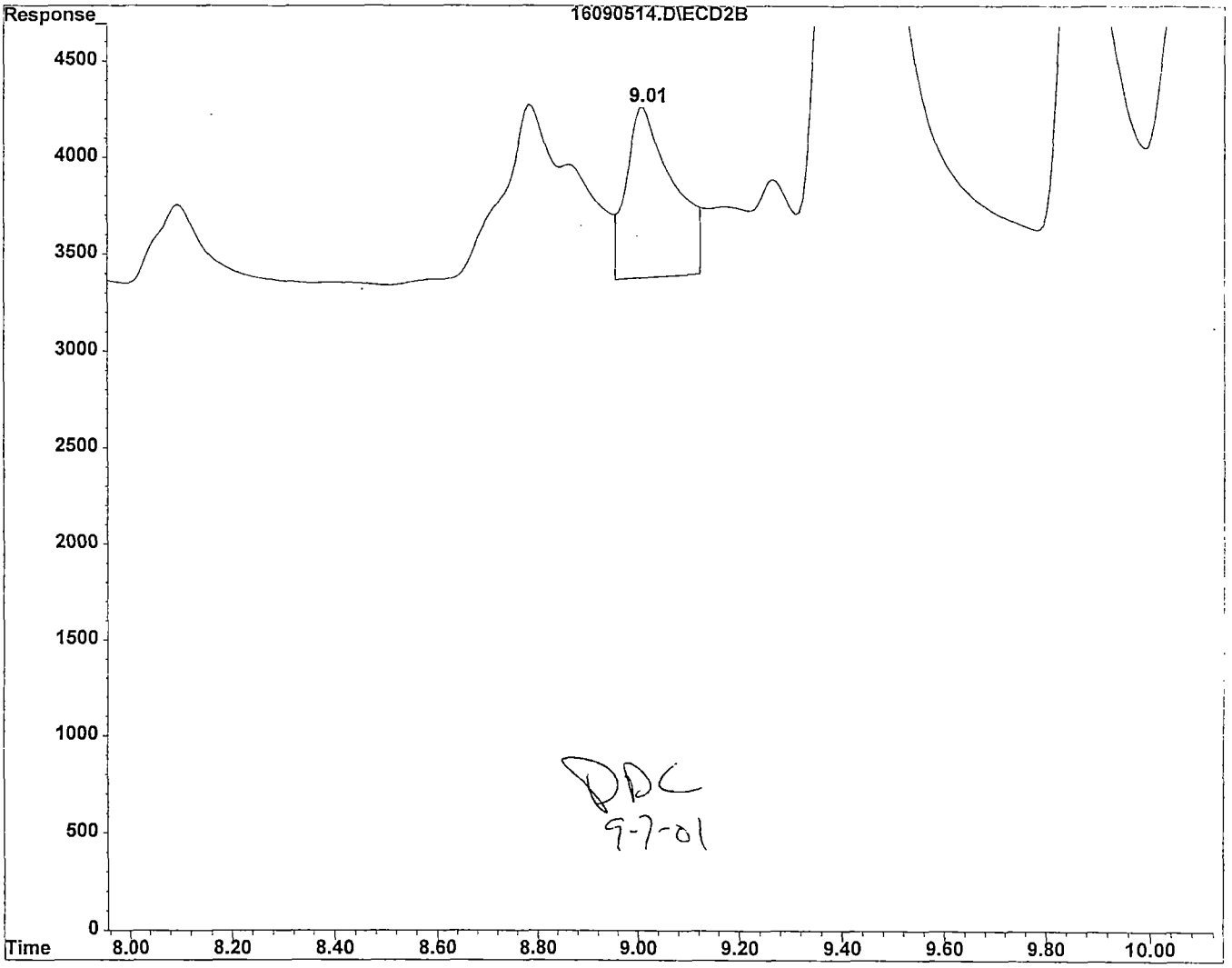
Multi-Component Method : f:\hpchem\hp\16\data\09_05_01\xspcbi05.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.00	6.00	130542	123059	21.5	19.7
22)	S DCB	17.64	16.99	195786	186793	20.3	20.8
	Target Compounds:						
	Multi-Component Compounds:						
14)	L5 Aroclor-1248	9.74	9.01f	81872	56072	456.8	303.1m #
15)	L5 Aroclor-1248 {2}	9.83	9.42	79759	79763	476.4	431.1
16)	L5 Aroclor-1248 {3}	10.30	9.85	92392	146119	454.8	446.7
17)	L5 Aroclor-1248 {4}	10.57	10.12	140710	84561	501.4	557.0
18)	L5 Aroclor-1248 {5}	11.59	10.89	55144	189121	521.3	638.9
	Sum Aroclor-1248			449877	555636	2410.7	2376.7
	Average Aroclor-1248					482.143	475.346

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_05_01\16090514.D
Date Acquired: 05 Sep 2001 22:16
Inst: HP_16 Operator ID: DDC
Name: ARI248L3CH
Misc: 5-424-6
Method: f:\hpchem\hp\16\data\09_05_01\xspcbi05.m
Title:
Quant Time: Sep 7 16:39 2001 Quant Results File: xspcbi05.RES



Aroclor-1248 #2 9.01min area: 56072 m

Integration Time Range: 8.96 - 9.12

F:\HPCHEM\HP\16\DATA\09_05_01\16090514.D
Report generated: Fri Sep 07 16:39:49 2001

Response Factor Report HP_16

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Calibration Files
L1 =16090515.D L2 =16090516.D L3 =16090517.D
L4 =16090518.D L5 =16090519.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
12) Aroclor-1254	412.0	392.6	414.9	369.1	410.5	399.8	4.82
13) Aroclor-1254 {2}	349.5	331.8	343.6	307.3	331.0	332.6	4.88
14) Aroclor-1254 {3}	509.8	497.7	528.6	481.1	530.2	509.5	4.09
15) Aroclor-1254 {4}	285.1	279.7	303.6	267.9	277.7	282.8	4.67
16) Aroclor-1254 {5}	302.4	308.3	343.8	314.4	331.5	320.1	5.36

Signal #2 Calibration Files
L1 =16090515.D L2 =16090516.D L3 =16090517.D
L4 =16090518.D L5 =16090519.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
35) Aroclor-1254 #2	264.6	280.4	294.5	264.6	281.9	277.2	4.60
36) Aroclor-1254 {2} #2	315.6	326.7	348.1	315.9	341.1	329.5	4.47
37) Aroclor-1254 {3} #2	203.4	223.2	305.7	256.5	286.5	255.1	16.68
38) Aroclor-1254 {4} #2	206.4	230.8	273.5	259.0	279.7	249.9	12.32
39) Aroclor-1254 {5} #2	389.8	404.2	465.7	432.4	459.1	430.2	7.72

(#) = Out of Range

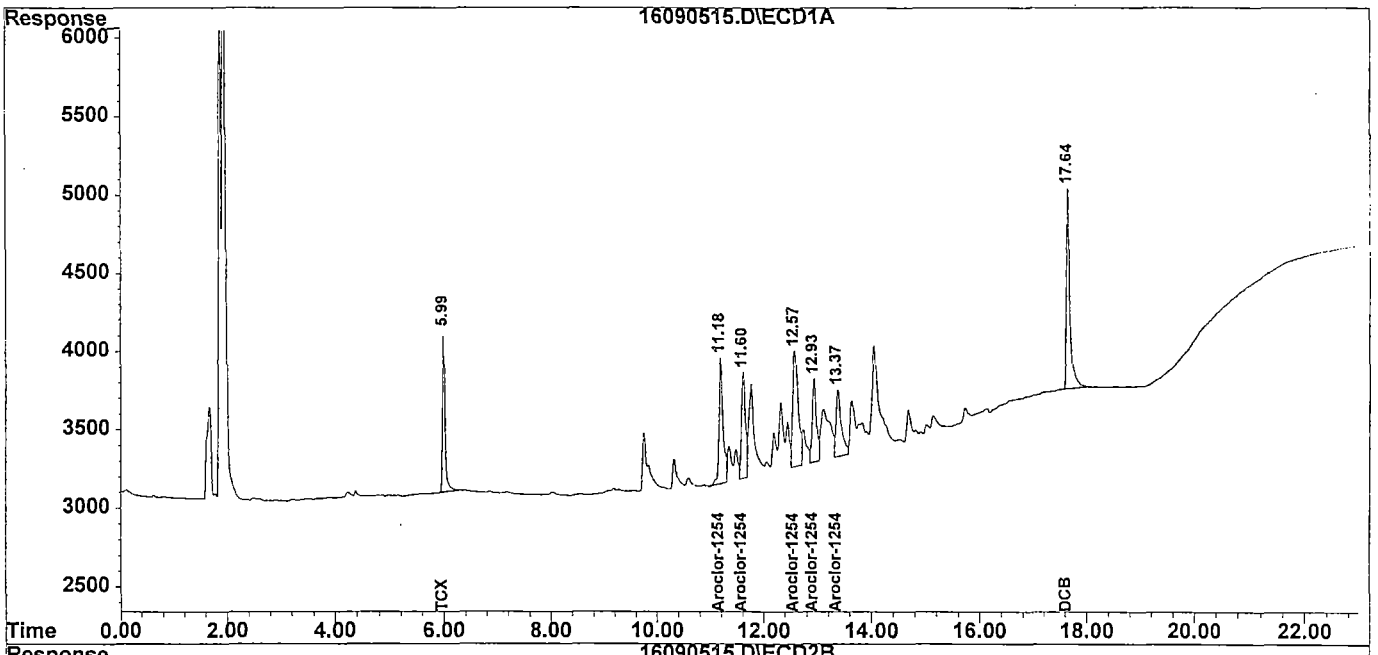
XPCBI05.M Thu Sep 06 11:15:31 2001

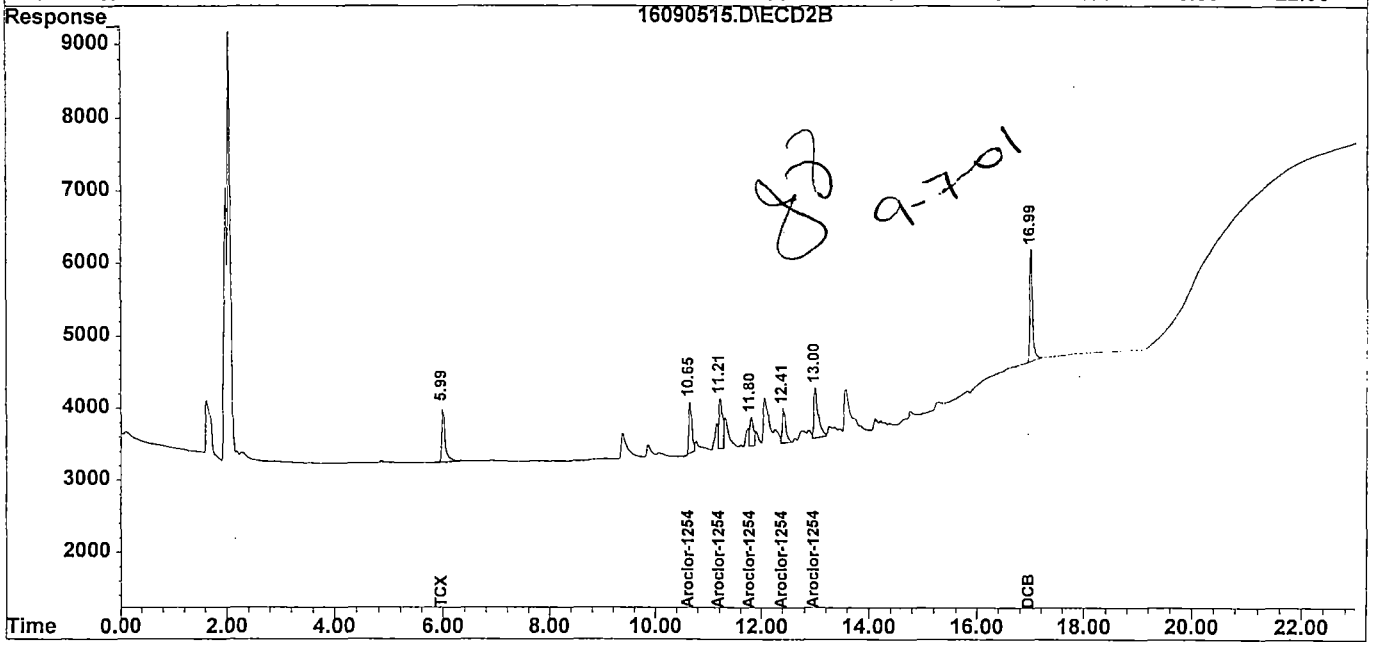
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090515.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090515.D\ECD2B.CH
Acq On : 05 Sep 2001 22:42 Operator: DDC
Sample : AR1254L1CH Inst : HP_16
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:13 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090515.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090515.D\ECD2B.CH
Acq On : 05 Sep 2001 22:42 Operator: DDC
Sample : AR1254L1CH Inst : HP_16
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:13 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.00	6.00	34143	32115	5.155	4.573
22)	S DCB	17.64	17.00	59187	54449	5.785	5.339
	Target Compounds:						
12)	L6 Aroclor-1254	11.18	10.65	41195	26463	104.7	96.5
13)	L6 Aroclor-1254 {2}	11.60	11.22	34951	31558	108.3	97.4
14)	L6 Aroclor-1254 {3}	12.57	11.80	50984	20339	106.8	81.2
15)	L6 Aroclor-1254 {4}	12.94	12.41	28506	20641	112.7	92.4
16)	L6 Aroclor-1254 {5}	13.37	13.00	30240	38979	106.5	102.1
	Sum Aroclor-1254			185876	137980	539.0	469.7
	Average Aroclor-1254					107.809	93.934

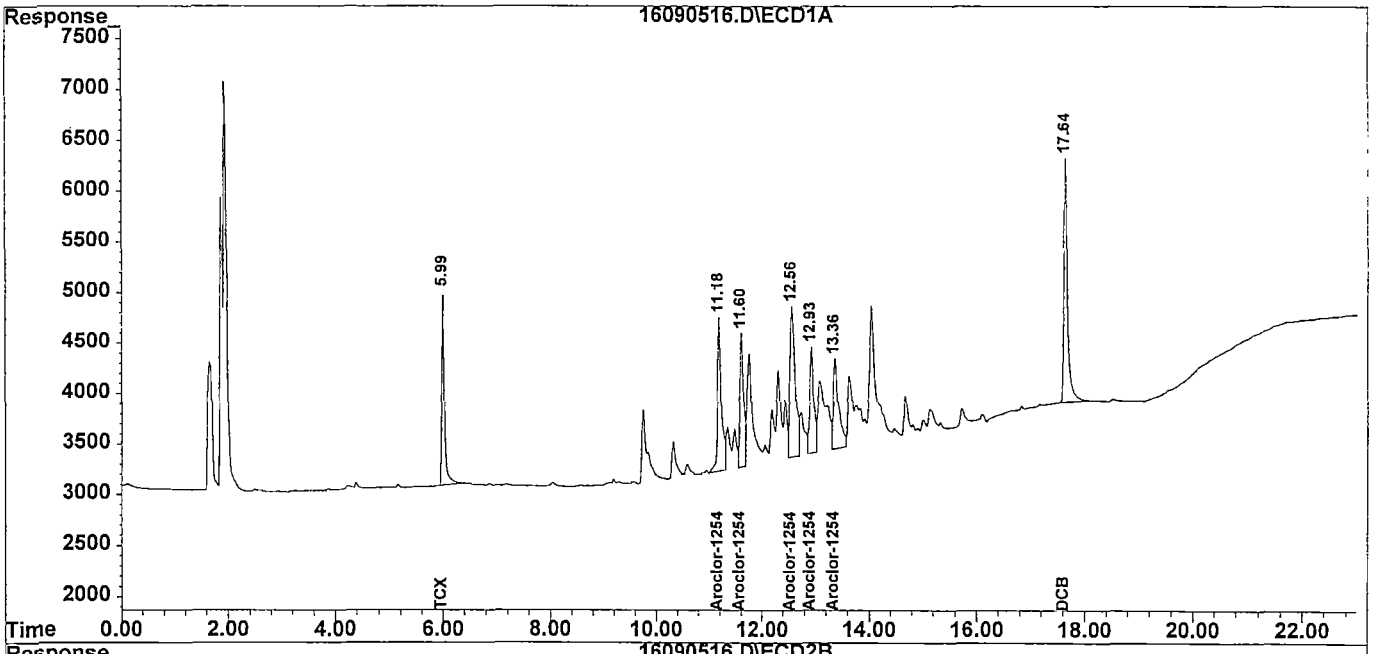
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

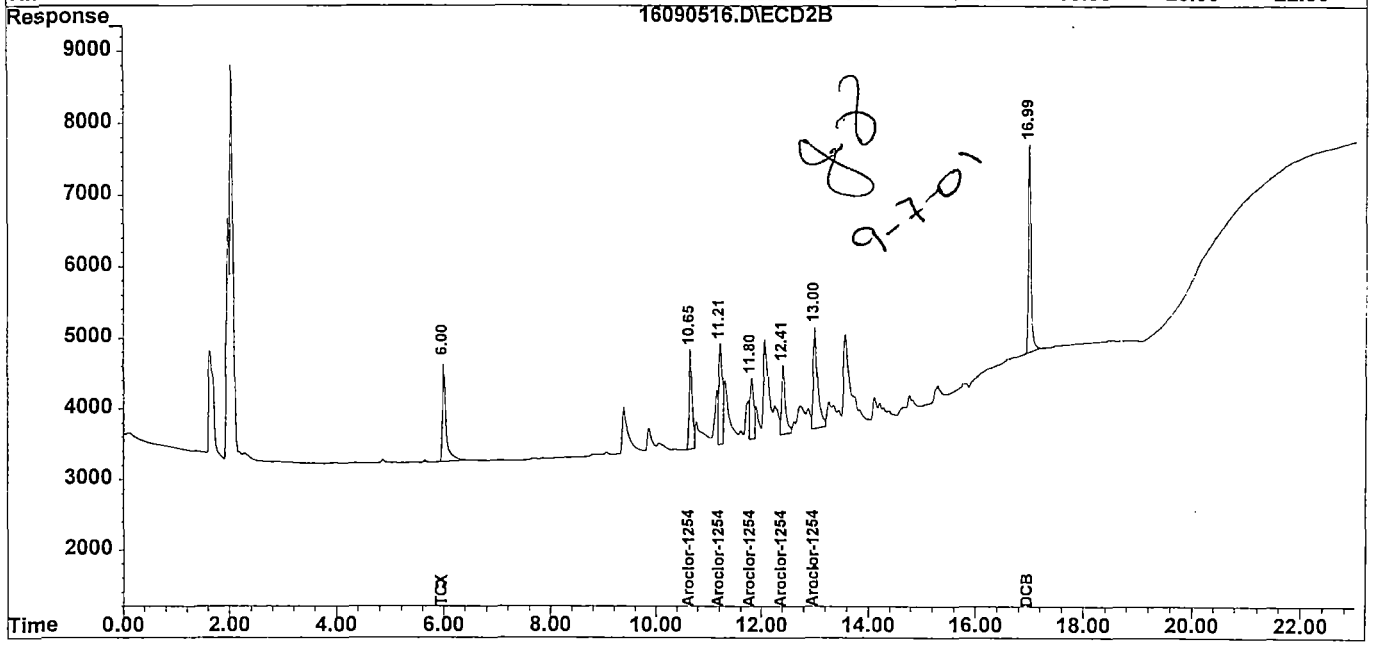
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090516.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090516.D\ECD2B.CH
Acq On : 05 Sep 2001 23:09 Operator: DDC
Sample : AR1254L2CH Inst : HP_16
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:14 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-7-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090516.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090516.D\ECD2B.CH
Acq On : 05 Sep 2001 23:09 Operator: DDC
Sample : AR1254L2CH Inst : HP_16
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:14 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.00	6.00	65525	63610	9.771	9.153
22)	S DCB	17.64	16.99	108640	99807	10.5	9.683
	Target Compounds:						
12)	L6 Aroclor-1254	11.18	10.65	78524	56079	201.3	208.7
13)	L6 Aroclor-1254 {2}	11.60	11.21	66366	65348	205.6	205.4
14)	L6 Aroclor-1254 {3}	12.56	11.80	99534	44640	206.4	184.7
15)	L6 Aroclor-1254 {4}	12.93	12.41	55937	46154	215.9	206.1
16)	L6 Aroclor-1254 {5}	13.36	13.00	61669	80832	211.2	208.6
	Sum Aroclor-1254			362030	293053	1040.3	1013.4
	Average Aroclor-1254					208.054	202.672

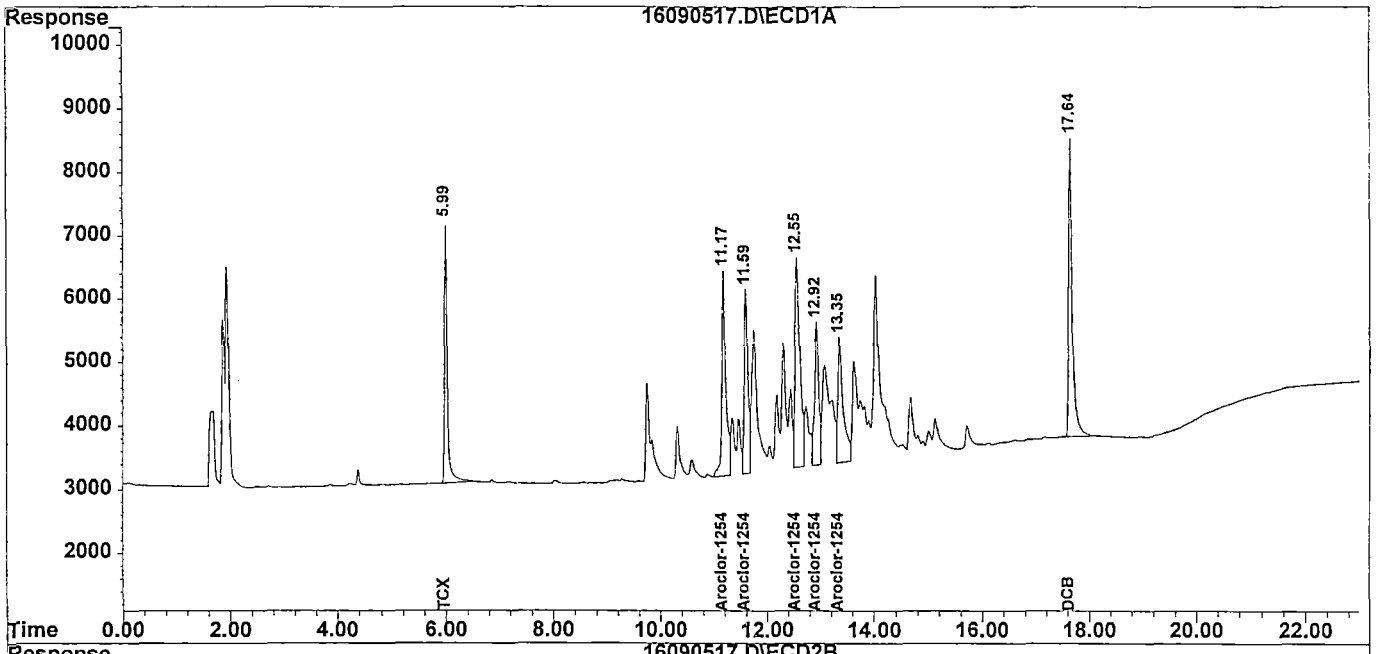
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

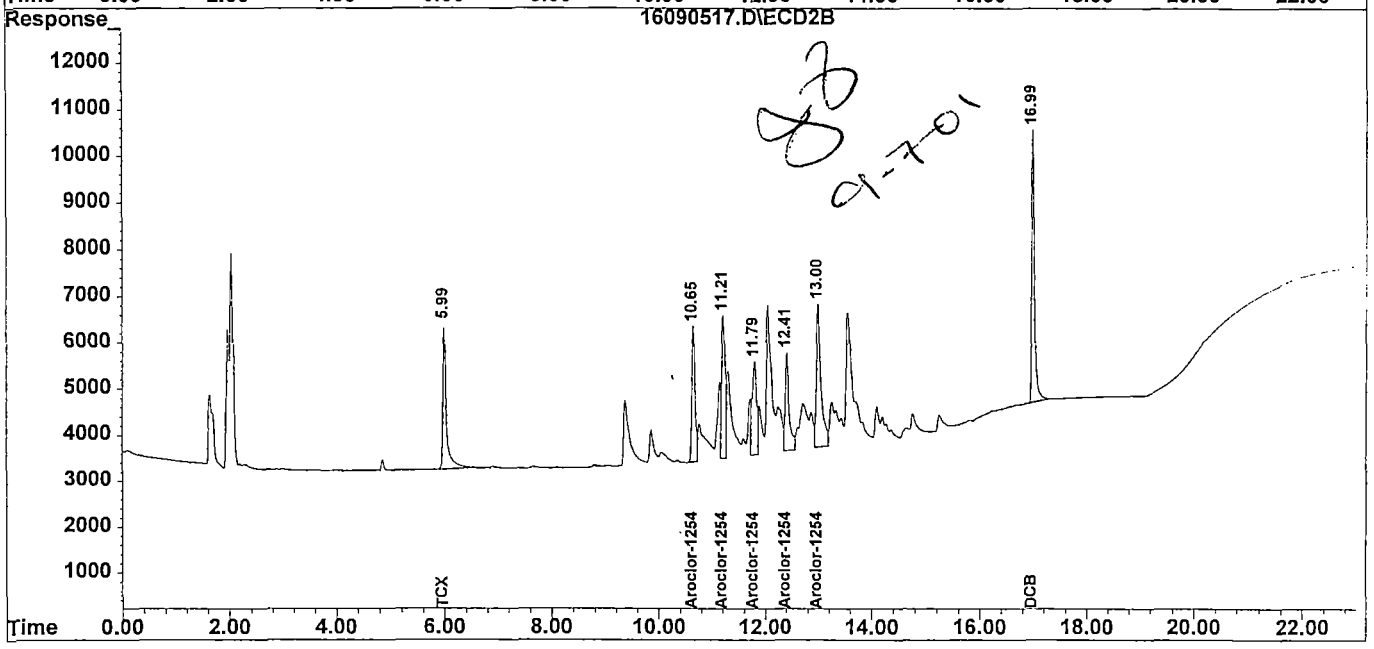
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090517.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090517.D\ECD2B.CH
Acq On : 05 Sep 2001 23:35 Operator: DDC
Sample : AR1254L3CH Inst : HP_16
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:14 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-7-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090517.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090517.D\ECD2B.CH
Acq On : 05 Sep 2001 23:35 Operator: DDC
Sample : AR1254L3CH Inst : HP_16
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:14 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.00	6.00	143301	139172	21.1	20.0
22)	S DCB	17.64	16.99	219266	213933	20.8	21.1
	Target Compounds:						
12)	L6 Aroclor-1254	11.18	10.65	165963	117816	430.2	443.4
13)	L6 Aroclor-1254 {2}	11.59	11.21	137460	139231	429.2	441.3
14)	L6 Aroclor-1254 {3}	12.55	11.79	211439	122273	437.7	519.2
15)	L6 Aroclor-1254 {4}	12.93	12.41	121449	109415	464.7	480.1
16)	L6 Aroclor-1254 {5}	13.36	13.00	137539	186290	466.5	475.4
	Sum Aroclor-1254			773850	675025	2228.3	2359.3
	Average Aroclor-1254					445.654	471.868

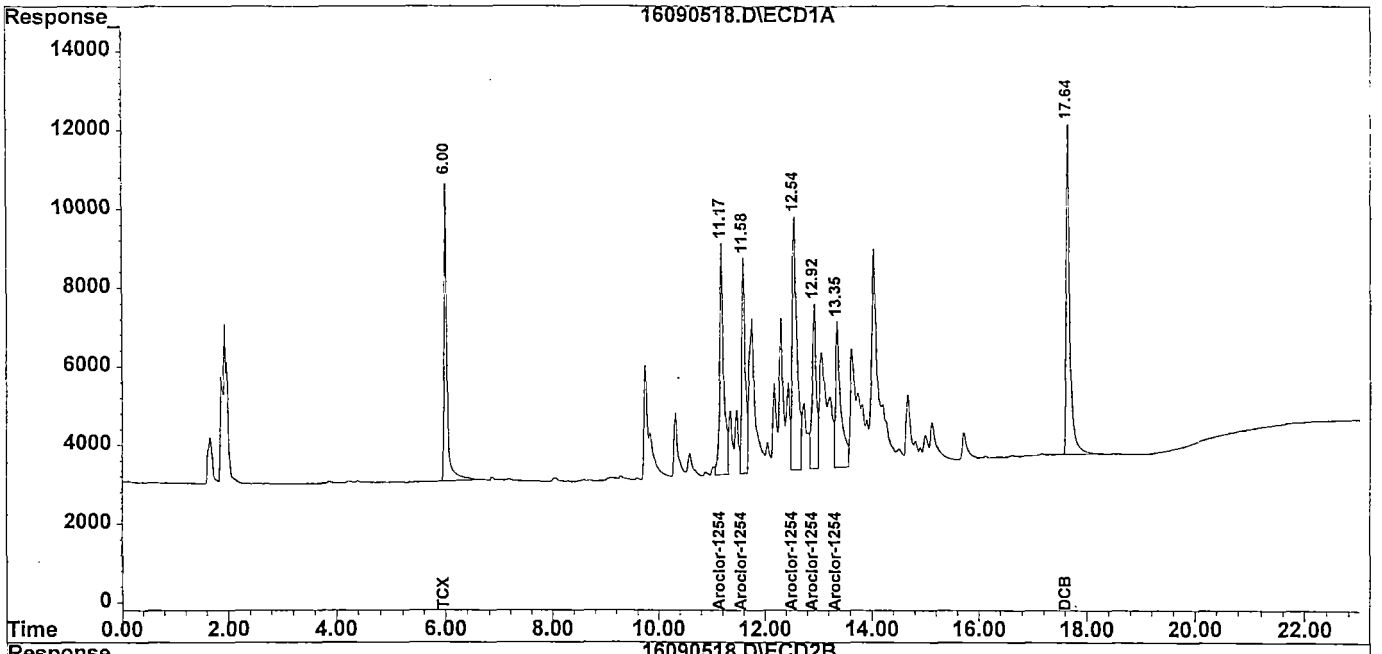
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

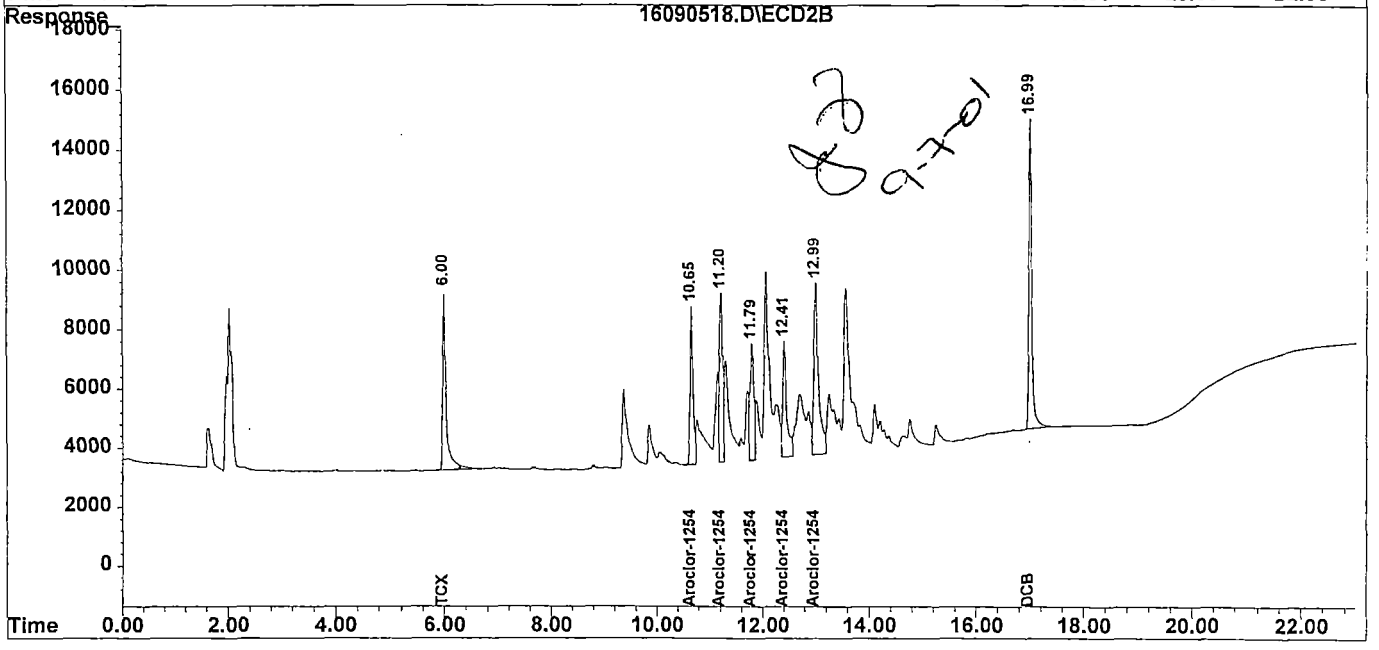
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090518.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090518.D\ECD2B.CH
Acq On : 06 Sep 2001 00:01 Operator: DDC
Sample : AR1254L4CH Inst : HP_16
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:14 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090518.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090518.D\ECD2B.CH
Acq On : 06 Sep 2001 00:01 Operator: DDC
Sample : AR1254L4CH Inst : HP_16
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:14 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.00	6.00	277550	276898	39.9	39.7
22)	S DCB	17.64	16.99	391056	384796	36.1	37.1
	Target Compounds:						
12)	L6 Aroclor-1254	11.17	10.65	295245	211677	757.2	787.9
13)	L6 Aroclor-1254 {2}	11.58	11.21	245821	252697	759.7	790.7
14)	L6 Aroclor-1254 {3}	12.54	11.79	384889	205216	781.5	836.7
15)	L6 Aroclor-1254 {4}	12.92	12.41	214314	207224	794.8	878.4
16)	L6 Aroclor-1254 {5}	13.35	13.00	251511	345907	825.0	854.0
	Sum Aroclor-1254			1391781	1222721	3918.2	4147.8
	Average Aroclor-1254					783.647	829.551

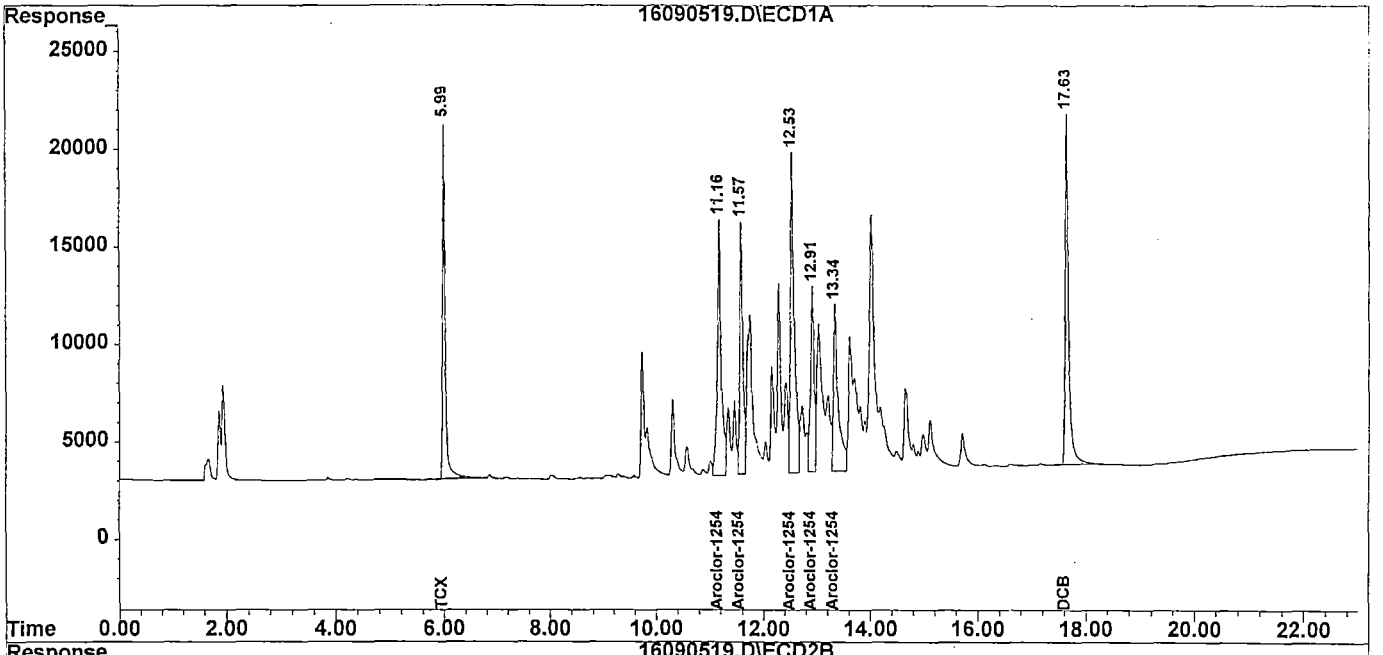
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

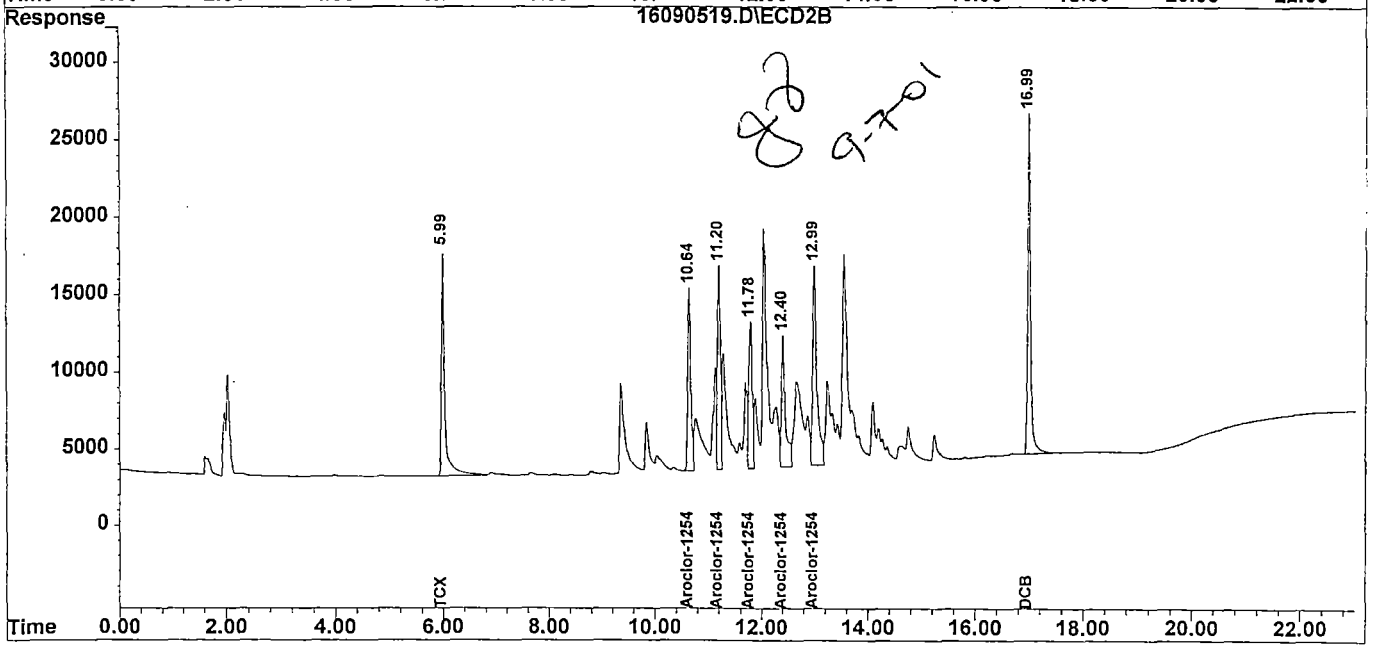
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090519.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090519.D\ECD2B.CH
Acq On : 06 Sep 2001 00:28 Operator: DDC
Sample : AR1254L5CH Inst : HP_16
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:15 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090519.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090519.D\ECD2B.CH
Acq On : 06 Sep 2001 00:28 Operator: DDC
Sample : AR1254L5CH Inst : HP_16
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:15 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.99	5.99	611980	629158	89.1 E	92.6 E
22)	S DCB	17.64	16.99	801140	808416	75.7 E	79.7 E
	Target Compounds:						
12)	L6 Aroclor-1254	11.17	10.64	656848	450974	1678.3 E	1663.0 E
13)	L6 Aroclor-1254 {2}	11.57	11.20	529572	545823	1624.8 E	1692.0 E
14)	L6 Aroclor-1254 {3}	12.53	11.78	848258	458454	1704.0 E	1847.5 E
15)	L6 Aroclor-1254 {4}	12.92	12.40	444389	447561	1612.0 E	1850.3 E
16)	L6 Aroclor-1254 {5}	13.34	12.99	530400	734587	1699.0 E	1764.4 E
	Sum Aroclor-1254			3009466	2637398	8318.1	8817.2
	Average Aroclor-1254					1663.613	1763.440

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

Response Factor Report HP_16

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Calibration Files
L1 =16090520.D L2 =16090521.D L3 =16090522.D
L4 =16090523.D L5 =16090524.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
1) TCX	6.5	5.6	6.5	6.4	5.3	6.1 E3	9.46
2) Aroclor-1016	388.4	330.6	372.3	345.0	265.1	340.3	14.03
3) Aroclor-1016 {2}	177.3	164.7	193.7	179.2	137.5	170.5	12.39
4) Aroclor-1016 {3}	202.6	185.7	226.8	219.8	174.9	201.9	10.88
5) Aroclor-1016 {4}	182.2	159.6	187.4	174.9	133.8	167.6	12.87
6) Aroclor-1016 {5}	226.6	228.4	282.3	269.8	211.5	243.7	12.54
17) Aroclor-1260	491.9	429.5	535.0	508.6	389.7	470.9	12.68
18) Aroclor-1260 {2}	439.3	385.7	480.9	460.1	357.2	424.6	12.18
19) Aroclor-1260 {3}	372.4	313.5	371.2	344.2	261.1	332.5	14.01
20) Aroclor-1260 {4}	305.8	263.4	339.6	331.1	260.4	300.1	12.33
21) Aroclor-1260 {5}	803.8	697.3	713.4	681.8	535.0	686.3	14.13
22) DCB	11.3	9.3	10.6	9.7	7.4	9.7 E3	15.50

Signal #2 Calibration Files
L1 =16090520.D L2 =16090521.D L3 =16090522.D
L4 =16090523.D L5 =16090524.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
24) TCX #2	6.4	5.5	6.9	6.8	5.7	6.3 E3	10.44
25) Aroclor-1016 #2	374.1	321.1	376.3	358.2	280.1	342.0	12.01
26) Aroclor-1016 {2} #2	250.2	239.7	280.5	263.7	204.8	247.8	11.49
27) Aroclor-1016 {3} #2	194.3	164.6	190.4	176.7	135.6	172.3	13.74
28) Aroclor-1016 {4} #2	316.3	271.2	322.9	308.1	240.4	291.8	11.99
29) Aroclor-1016 {5} #2	228.5	202.6	258.6	251.3	197.6	227.7	12.13
40) Aroclor-1260 #2	495.6	413.8	472.6	441.1	337.6	432.1	14.18
41) Aroclor-1260 {2} #2	525.4	467.1	592.7	597.3	484.0	533.3	11.29
42) Aroclor-1260 {3} #2	277.8	241.6	298.2	296.1	235.7	269.9	11.00
43) Aroclor-1260 {4} #2	758.9	659.7	799.4	802.2	644.1	732.8	10.38
44) Aroclor-1260 {5} #2	344.8	309.0	362.0	350.2	275.8	328.4	10.79
45) DCB #2	9.6	8.4	10.1	9.4	7.3	9.0 E3	12.75

(#) = Out of Range

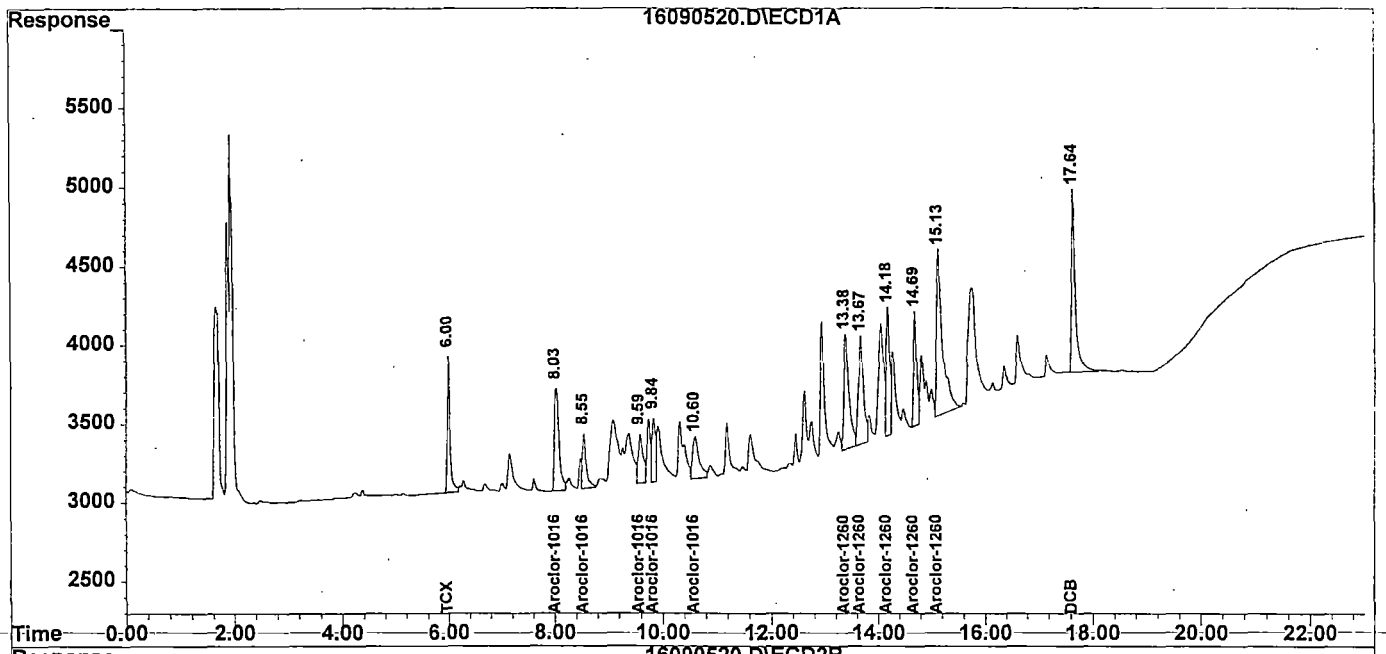
XPCBI05.M Thu Sep 06 11:27:08 2001

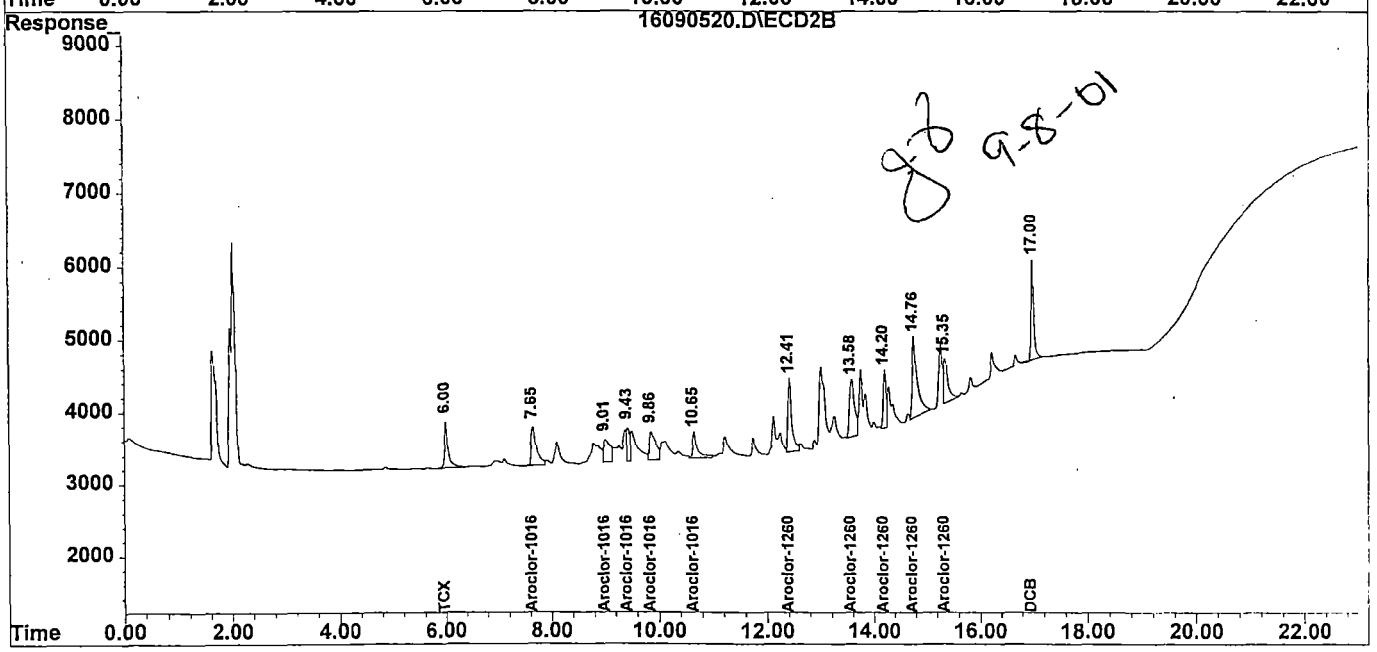
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090520.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090520.D\ECD2B.CH
Acq On : 06 Sep 2001 00:54 Operator: DDC
Sample : AR1660L1CH Inst : HP_16
Misc : 5-212-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:26 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





gg 9-8-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090520.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090520.D\ECD2B.CH
Acq On : 06 Sep 2001 00:54 Operator: DDC
Sample : AR1660L1CH Inst : HP_16
Misc : 5-212-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:26 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

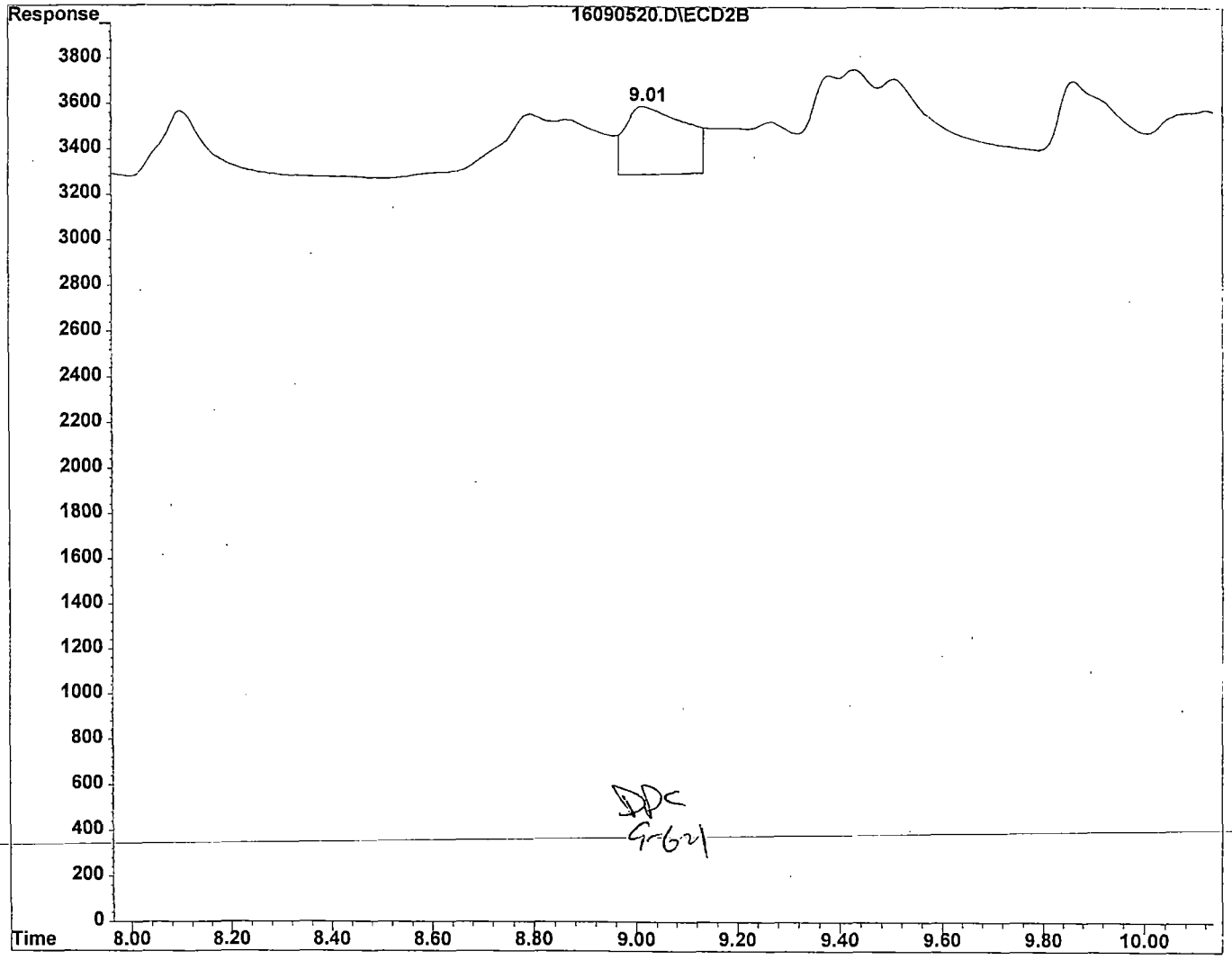
Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.00	6.00	32320	32027	5.460	5.117
22)	S DCB	17.64	17.00	56473	48049	5.899	5.357
	Target Compounds:						
2)	L1 Aroclor-1016	8.03	7.66	38843	37413	114.5	109.4
3)	L1 Aroclor-1016 {2}	8.55	9.01	17732	25016	105.7	101.6m
4)	L1 Aroclor-1016 {3}	9.59	9.43	20255	19431	103.4	112.8
5)	L1 Aroclor-1016 {4}	9.84	9.86	18223	31631	110.8	108.4
6)	L1 Aroclor-1016 {5}	10.60	10.66	22661	22854	94.7	100.4
	Sum Aroclor-1016			117714	136345	529.1	532.5
	Average Aroclor-1016					105.815	106.497
17)	L7 Aroclor-1260	13.38	12.42	49191	49558	104.7	114.7
18)	L7 Aroclor-1260 {2}	13.67	13.58	43934	52536	103.7	98.5
19)	L7 Aroclor-1260 {3}	14.18	14.21	37236	27785	112.1	102.9
20)	L7 Aroclor-1260 {4}	14.69	14.77	30580	75887	101.9	103.6
21)	L7 Aroclor-1260 {5}	15.13	15.36	80383	34480	117.2	105.0
	Sum Aroclor-1260			241324	240245	539.6	524.7
	Average Aroclor-1260					107.926	104.940

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\16\DATA\09_05_01\16090520.D
Date Acquired: 06 Sep 2001 00:54
Inst: HP_16 Operator ID: DDC
Name: AR1660L1CH
Misc: 5-212-7
Method: F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 11:26 2001 Quant Results File: XPCBI05.RES



Aroclor-1016 {2} #2 9.01min area: 25016 m

Integration Time Range: 8.96 - 9.13

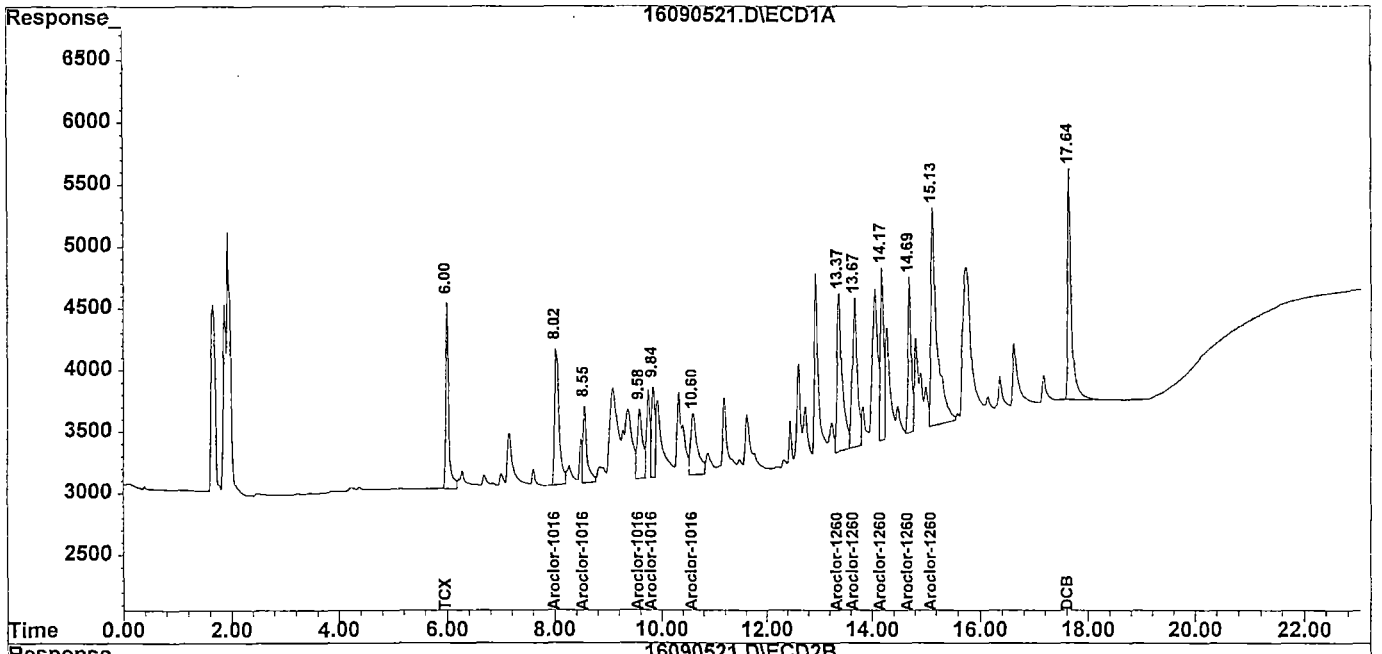
F:\HPCHEM\HP\16\DATA\09_05_01\16090520.D
Report generated: Thu Sep 06 11:27:38 2001

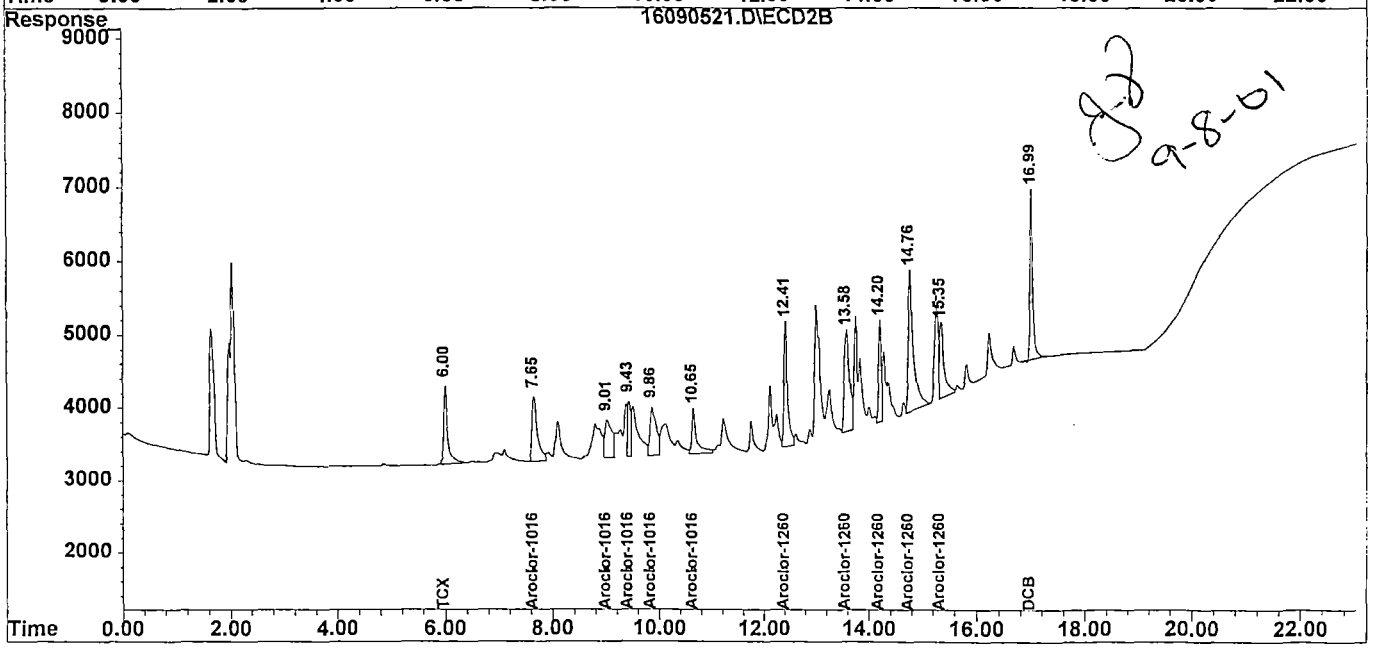
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090521.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090521.D\ECD2B.CH
Acq On : 06 Sep 2001 1:20 Operator: DDC
Sample : AR1660L2CH Inst : HP_16
Misc : 5-211-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:24 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-8-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090521.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090521.D\ECD2B.CH
Acq On : 06 Sep 2001 1:20 Operator: DDC
Sample : AR1660L2CH Inst : HP_16
Misc : 5-211-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:24 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.00	6.00	56331	54831	9.413	8.761
22)	S DCB	17.64	17.00	93221	84087	9.683	9.374
	Target Compounds:						
2)	L1 Aroclor-1016	8.03	7.65	66119	64212	194.4	187.8
3)	L1 Aroclor-1016 {2}	8.55	9.02	32941	47935	193.7	177.3
4)	L1 Aroclor-1016 {3}	9.59	9.43	37139	32919	183.8	191.0
5)	L1 Aroclor-1016 {4}	9.84	9.86	31922	54233	190.9	185.9
6)	L1 Aroclor-1016 {5}	10.60	10.65	45687	40529	187.6	178.0
	Sum Aroclor-1016			213808	239827	950.4	919.9
	Average Aroclor-1016					190.082	183.982
17)	L7 Aroclor-1260	13.37	12.41	85896	82751	182.4	191.5
18)	L7 Aroclor-1260 {2}	13.67	13.58	77150	93419	181.7	175.2
19)	L7 Aroclor-1260 {3}	14.18	14.20	62703	48319	188.7	179.0
20)	L7 Aroclor-1260 {4}	14.69	14.76	52676	131931	175.5	180.0
21)	L7 Aroclor-1260 {5}	15.13	15.36	139452	61808	203.3	188.2
	Sum Aroclor-1260			417877	418228	931.6	914.0
	Average Aroclor-1260					186.314	182.791

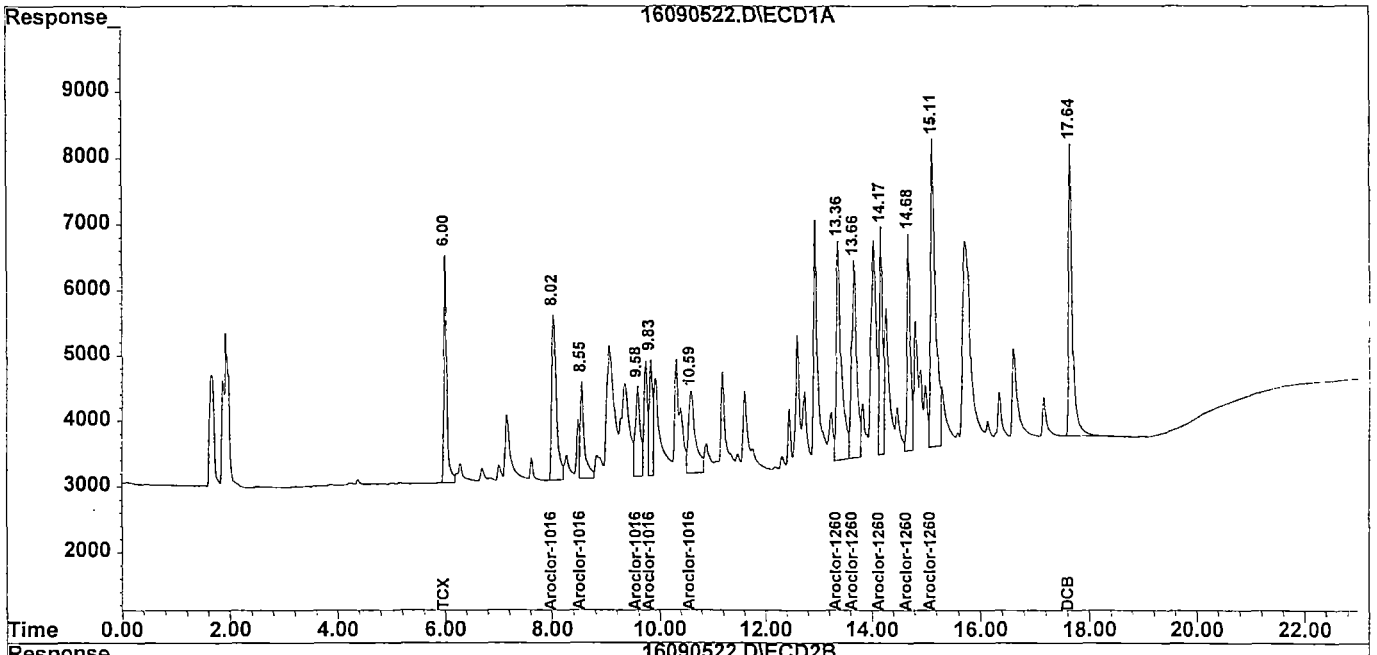
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

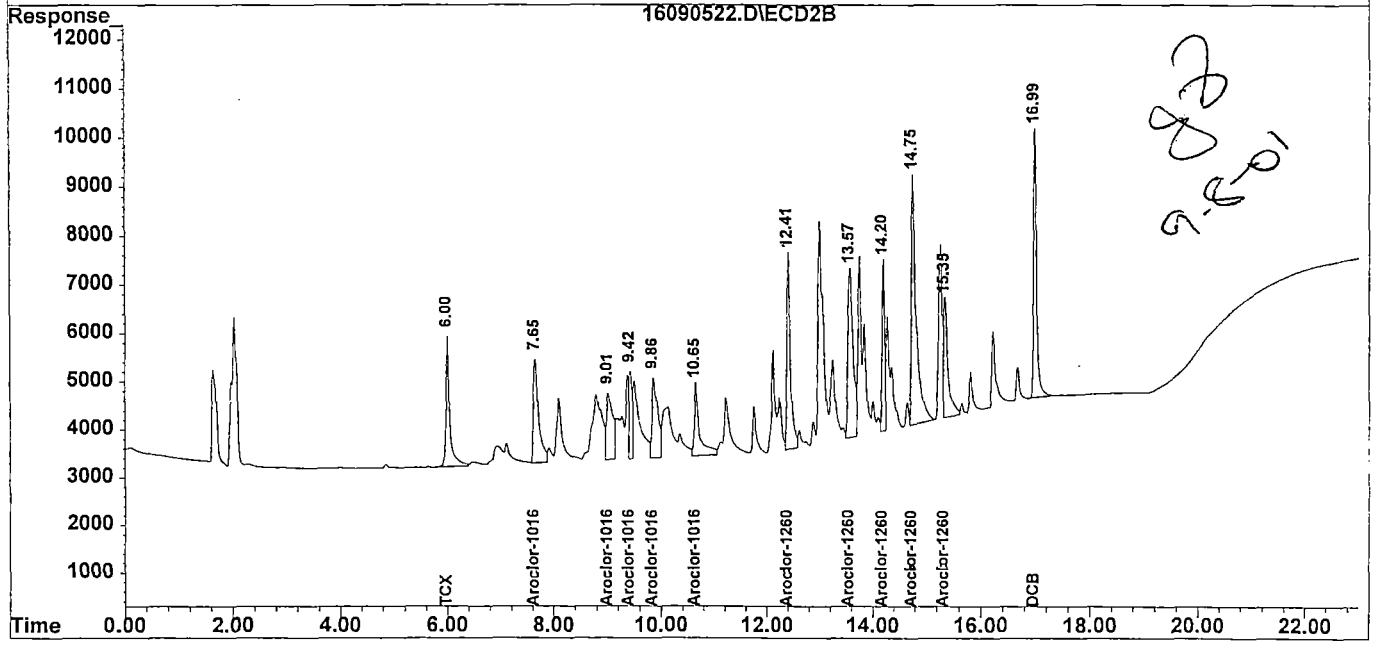
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090522.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090522.D\ECD2B.CH
Acq On : 06 Sep 2001 1:47 Operator: DDC
Sample : AR1660L3CX Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:25 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090522.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090522.D\ECD2B.CH
Acq On : 06 Sep 2001 1:47 Operator: DDC
Sample : AR1660L3CX Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:25 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.00	6.00	130280	137710	21.6	22.0
22)	S DCB	17.64	17.00	212348	202744	22.0	22.6
	Target Compounds:						
2)	L1 Aroclor-1016	8.02	7.65	148934	150530	437.8	440.2
3)	L1 Aroclor-1016 {2}	8.55	9.02	77487	112212	455.5	415.0
4)	L1 Aroclor-1016 {3}	9.58	9.42	90728	76172	449.0	442.0
5)	L1 Aroclor-1016 {4}	9.83	9.86	74945	129148	448.1	442.6
6)	L1 Aroclor-1016 {5}	10.59	10.65	112924	103455	463.5	454.3
	Sum Aroclor-1016			505017	571515	2253.9	2194.1
	Average Aroclor-1016					450.786	438.821
17)	L7 Aroclor-1260	13.36	12.41	213991	189038	454.4	437.5
18)	L7 Aroclor-1260 {2}	13.66	13.57	192366	237070	453.0	444.5
19)	L7 Aroclor-1260 {3}	14.17	14.20	148481	119290	446.8	442.0
20)	L7 Aroclor-1260 {4}	14.68	14.76	135837	319771	452.6	436.3
21)	L7 Aroclor-1260 {5}	15.12	15.35	285372	144800	416.0	441.0
	Sum Aroclor-1260			976046	1009970	2222.8	2201.3
	Average Aroclor-1260					444.566	440.261

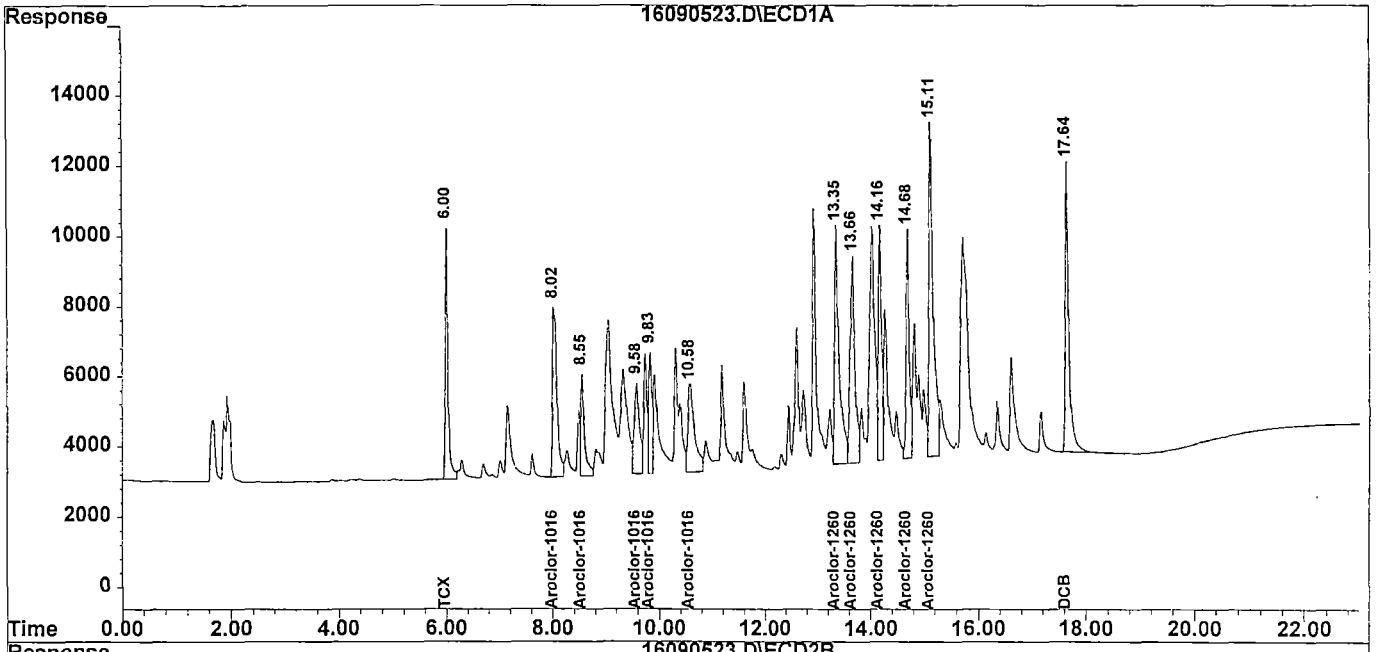
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

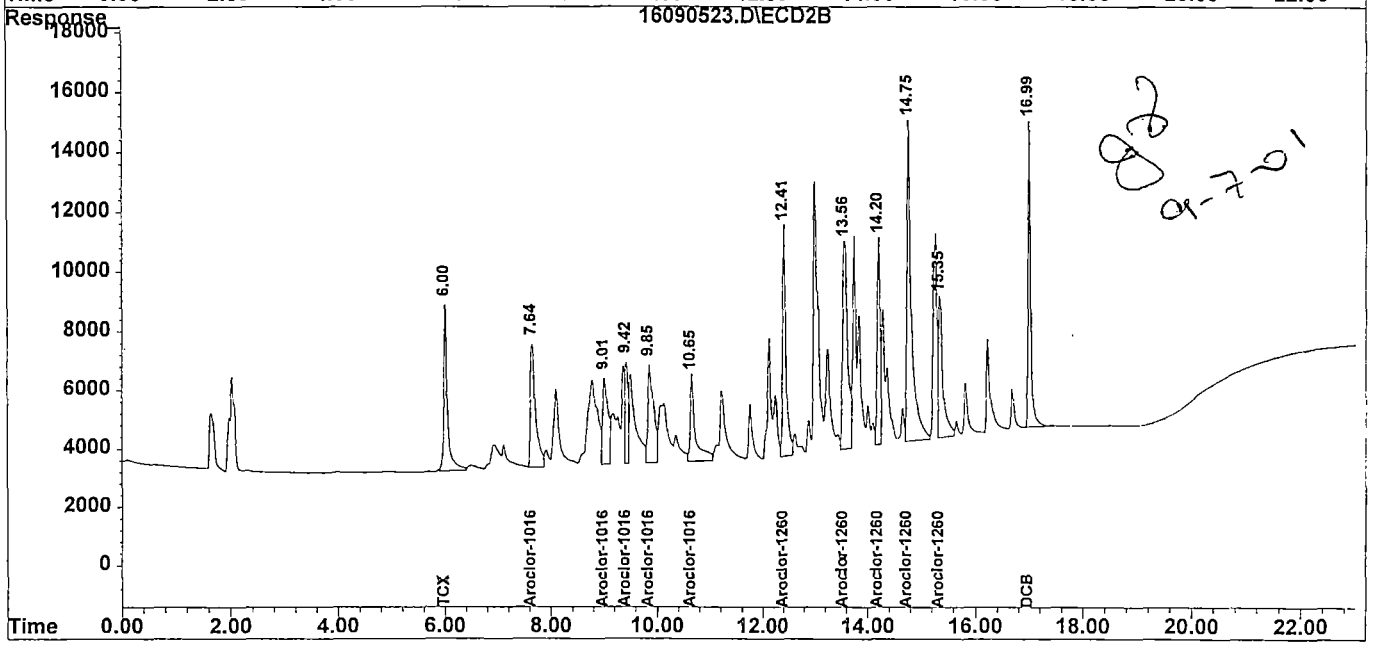
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090523.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090523.D\ECD2B.CH
Acq On : 06 Sep 2001 2:13 Operator: DDC
Sample : AR1660L4CH Inst : HP_16
Misc : 5-209-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:25 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





8/8 9-7-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090523.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090523.D\ECD2B.CH
Acq On : 06 Sep 2001 2:13 Operator: DDC
Sample : AR1660L4CH Inst : HP_16
Misc : 5-209-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:25 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.00	6.00	257182	273945	42.5	43.8
22)	S DCB	17.64	17.00	388518	377441	40.2	42.1
	Target Compounds:						
2)	L1 Aroclor-1016	8.02	7.64	276012	286537	811.2	837.9
3)	L1 Aroclor-1016 {2}	8.55	9.01	143385	210991	841.8	780.3
4)	L1 Aroclor-1016 {3}	9.58	9.42	175808	141376	870.5	820.4
5)	L1 Aroclor-1016 {4}	9.83	9.85	139923	246501	836.2	844.8
6)	L1 Aroclor-1016 {5}	10.58	10.65	215854	201039	885.8	882.8
	Sum Aroclor-1016			950981	1086444	4245.4	4166.2
	Average Aroclor-1016					849.089	833.244
17)	L7 Aroclor-1260	13.35	12.41	406866	352903	864.0	816.7
18)	L7 Aroclor-1260 {2}	13.66	13.56	368046	477817	866.8	896.0
19)	L7 Aroclor-1260 {3}	14.16	14.20	275395	236899	828.8	877.8
20)	L7 Aroclor-1260 {4}	14.68	14.75	264889	641726	882.5	875.7
21)	L7 Aroclor-1260 {5}	15.11	15.35	545415	280182	795.0	853.3
	Sum Aroclor-1260			1860611	1989528	4237.1	4319.3
	Average Aroclor-1260					847.419	863.864

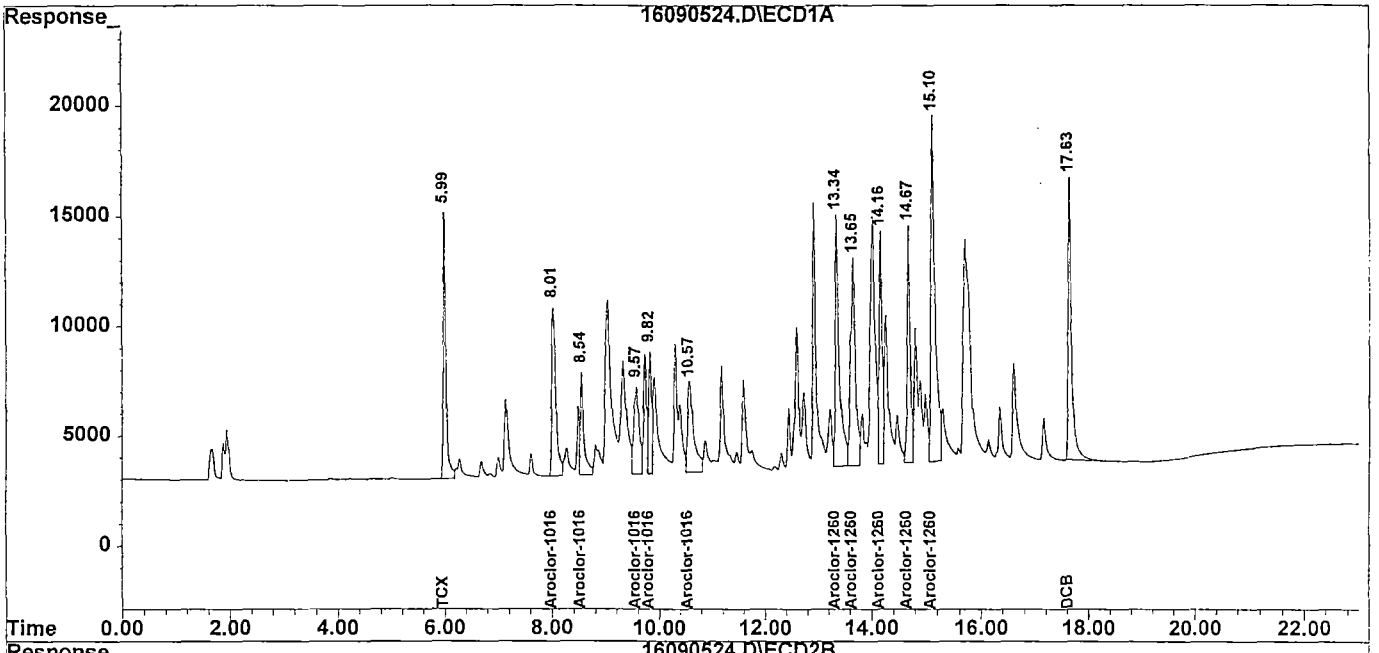
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

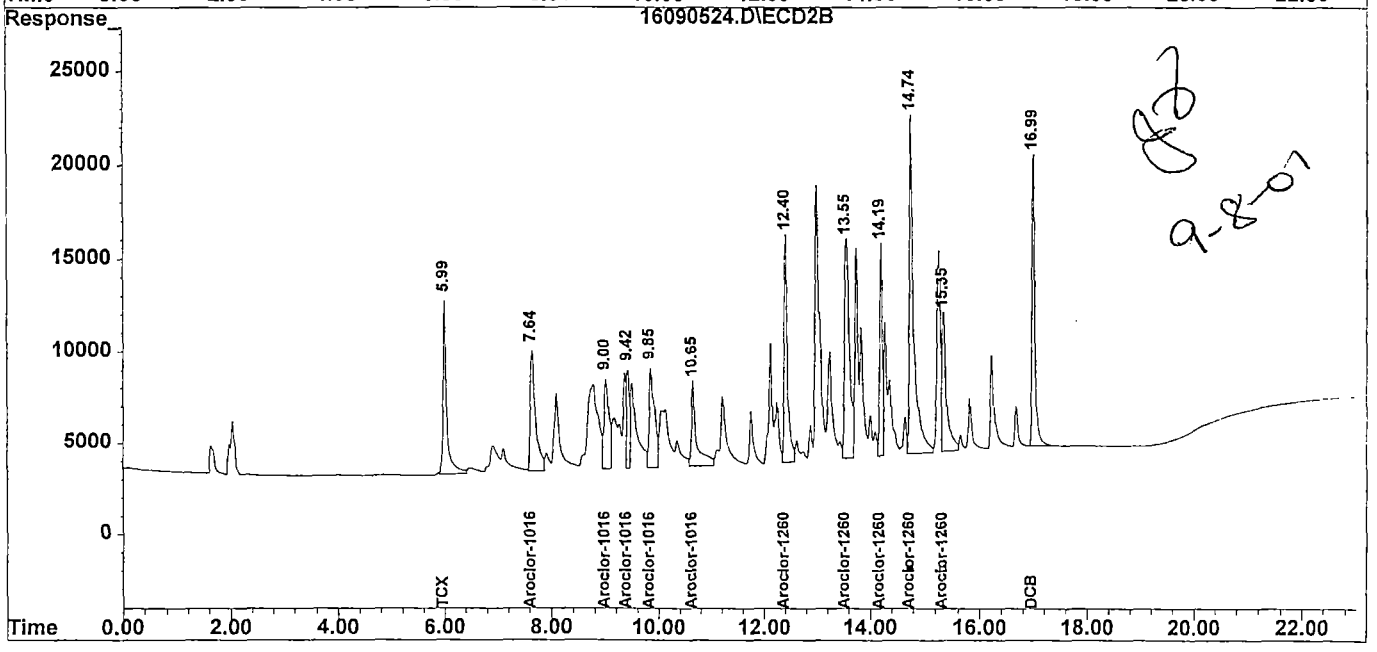
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090524.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090524.D\ECD2B.CH
Acq On : 06 Sep 2001 2:40 Operator: DDC
Sample : AR1660L5CH Inst : HP_16
Misc : 5-208-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:26 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





8-8-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090524.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090524.D\ECD2B.CH
Acq On : 06 Sep 2001 2:40 Operator: DDC
Sample : AR1660L5CH Inst : HP_16
Misc : 5-208-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:26 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds:						
1) S TCX	6.00	6.00	421400	453679	69.6 E	72.5 E
22) S DCB	17.64	16.99	589237	580633	61.0	64.7 E
Target Compounds:						
2) L1 Aroclor-1016	8.02	7.64	424095	448140	1246.3	1310.5 E
3) L1 Aroclor-1016 {2}	8.54	9.01	220006	327710	1290.7 E	1211.9 E
4) L1 Aroclor-1016 {3}	9.57	9.42	279829	216883	1385.7 E	1258.6 E
5) L1 Aroclor-1016 {4}	9.82	9.85	214151	384658	1278.7 E	1318.3
6) L1 Aroclor-1016 {5}	10.57	10.65	338380	316091	1388.4 E	1388.0 E
Sum Aroclor-1016			1476461	1693483	6589.7	6487.3
Average Aroclor-1016					1317.945	1297.464
17) L7 Aroclor-1260	13.34	12.40	623565	540185	1324.1 E	1250.0
18) L7 Aroclor-1260 {2}	13.66	13.55	571499	774443	1345.8 E	1452.2
19) L7 Aroclor-1260 {3}	14.16	14.20	417771	377069	1256.5 E	1397.1 E
20) L7 Aroclor-1260 {4}	14.68	14.75	416674	1030537	1388.7 E	1406.2
21) L7 Aroclor-1260 {5}	15.10	15.35	855983	441251	1247.3 E	1343.8
Sum Aroclor-1260			2885492	3163485	6562.5	6849.3
Average Aroclor-1260					1312.492	1369.869

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

Continuing Calibration Report HP_16

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Thu Sep 06 11:30:44 2001
Response via : Initial Calibration

Continuing Calibration File: 16090540.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	6.062	6.687	E3	-10.3	103
2	L1	Aroclor-1016	340.286	380.711		-11.9	102
3	L1	Aroclor-1016 {2}	170.496	193.905		-13.7	100
4	L1	Aroclor-1016 {3}	201.944	205.414		-1.7	91
5	L1	Aroclor-1016 {4}	167.590	181.549		-8.3	97
6	L1	Aroclor-1016 {5}	243.731	232.951		4.4	83
17	L7	Aroclor-1260	470.937	512.485		-8.8	96
18	L7	Aroclor-1260 {2}	424.650	463.027		-9.0	96
19	L7	Aroclor-1260 {3}	332.486	368.194		-10.7	99
20	L7	Aroclor-1260 {4}	300.060	314.001		-4.6	92
21	L7	Aroclor-1260 {5}	686.255	805.100		-17.3#	113
22	S	DCB	9.662	10.942	E3	-13.2	103

Signal #2
Continuing Calibration File: 16090540.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	6.259	7.033	E3	-12.4	102
2	L1	Aroclor-1016	341.954	378.650		-10.7	101
3	L1	Aroclor-1016 {2}	247.784	292.084		-17.9#	104
4	L1	Aroclor-1016 {3}	172.322	194.759		-13.0	102
5	L1	Aroclor-1016 {4}	291.776	331.863		-13.7	103
6	L1	Aroclor-1016 {5}	227.736	259.393		-13.9	100
17	L7	Aroclor-1260	432.134	488.838		-13.1	103
18	L7	Aroclor-1260 {2}	533.285	592.118		-11.0	100
19	L7	Aroclor-1260 {3}	269.893	307.611		-14.0	103
20	L7	Aroclor-1260 {4}	732.839	819.134		-11.8	102
21	L7	Aroclor-1260 {5}	328.370	378.059		-15.1#	104
22	S	DCB	8.970	10.454	E3	-16.5#	103

(#) = Out of Range SPCC's out = 0 CCC's out = 0

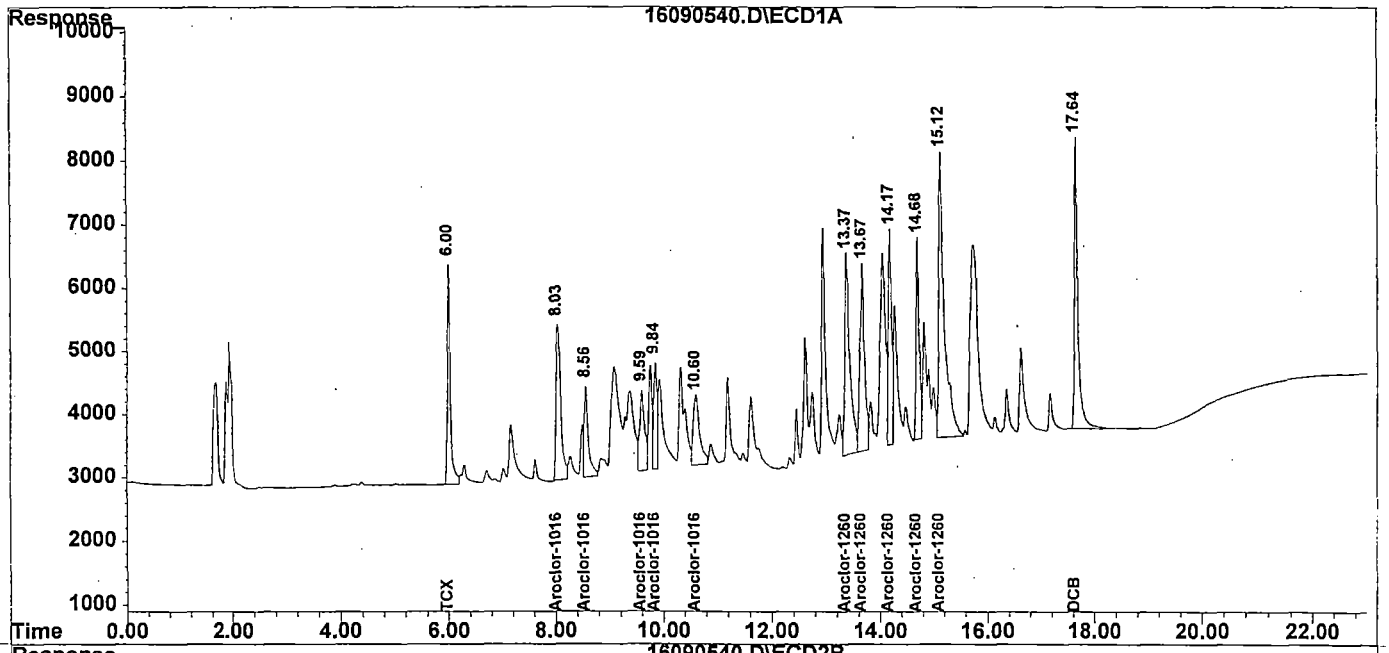
16090540.D XPCBI05.M Thu Sep 06 11:30:52 2001

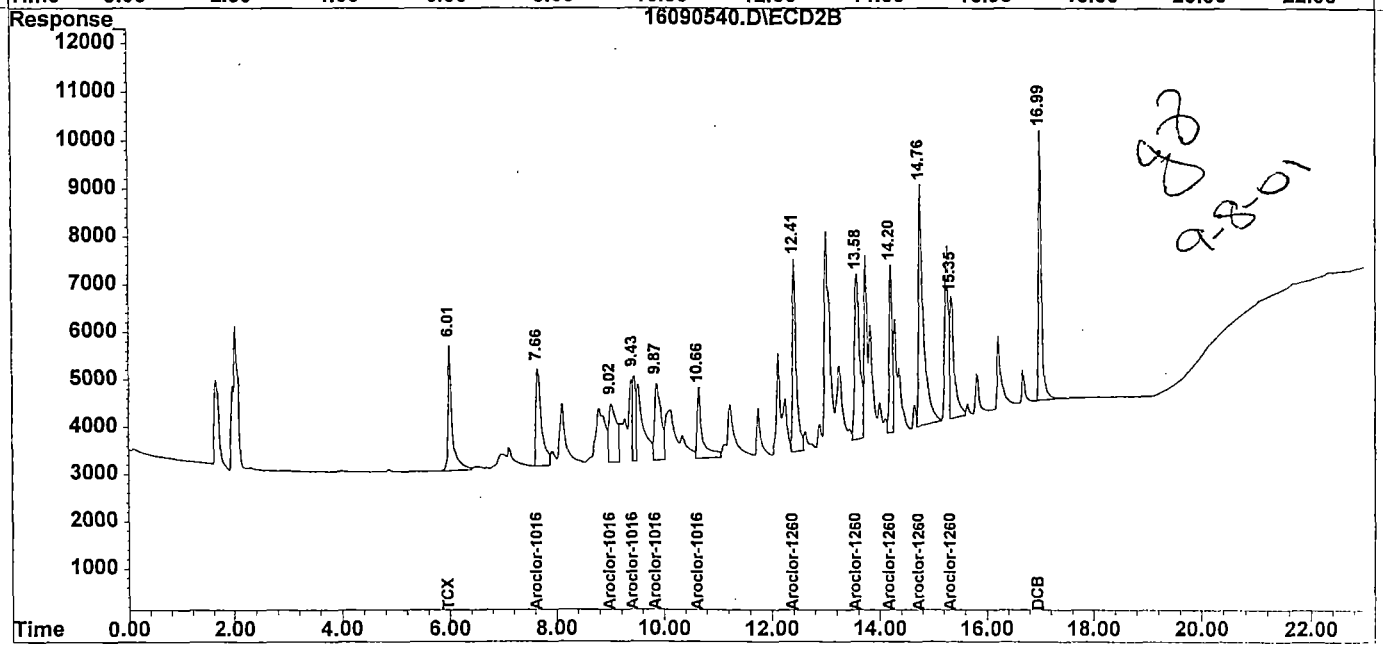
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090540.D\ECD1A.CH Vial: 40
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090540.D\ECD2B.CH
Acq On : 06 Sep 2001 9:42 Operator: DDC
Sample : AR1660L3CY Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:30 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-8-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090540.D\ECD1A.CH Vial: 40
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090540.D\ECD2B.CH
Acq On : 06 Sep 2001 9:42 Operator: DDC
Sample : AR1660L3CY Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:30 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.00	6.01	133735	140670	22.1	22.5
22)	S DCB	17.64	17.00	218831	209084	22.6	23.3
	Target Compounds:						
2)	L1 Aroclor-1016	8.03	7.66	152284	151460	447.5	442.9
3)	L1 Aroclor-1016 {2}	8.56	9.02	77562	116833	454.9	471.5
4)	L1 Aroclor-1016 {3}	9.59	9.43	82166	77904	406.9	452.1
5)	L1 Aroclor-1016 {4}	9.84	9.87	72620	132745	433.3	455.0
6)	L1 Aroclor-1016 {5}	10.61	10.66	93180	103757	382.3	455.6
	Sum Aroclor-1016			477812	582700	2124.9	2277.1
	Average Aroclor-1016					424.987	455.416
17)	L7 Aroclor-1260	13.37	12.42	204994	195535	435.3	452.5
18)	L7 Aroclor-1260 {2}	13.67	13.58	185211	236847	436.1	444.1
19)	L7 Aroclor-1260 {3}	14.17	14.21	147278	123044	443.0	455.9
20)	L7 Aroclor-1260 {4}	14.69	14.76	125600	327654	418.6	447.1
21)	L7 Aroclor-1260 {5}	15.12	15.36	322040	151223	469.3	460.5
	Sum Aroclor-1260			985123	1034304	2202.3	2260.1
	Average Aroclor-1260					440.451	452.029

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

Continuing Calibration Report HP_16

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Thu Sep 06 16:04:20 2001
Response via : Initial Calibration

Continuing Calibration File: 16090552.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	6.062	8.059	E3	-32.9#	124
2	L1	Aroclor-1016	340.286	451.186		-32.6#	121
3	L1	Aroclor-1016 {2}	170.496	231.037		-35.5#	119
4	L1	Aroclor-1016 {3}	201.944	248.360		-23.0#	109
5	L1	Aroclor-1016 {4}	167.590	217.837		-30.0#	116
6	L1	Aroclor-1016 {5}	243.731	281.285		-15.4#	100
17	L7	Aroclor-1260	470.937	627.830		-33.3#	117
18	L7	Aroclor-1260 {2}	424.650	568.953		-34.0#	118
19	L7	Aroclor-1260 {3}	332.486	450.208		-35.4#	121
20	L7	Aroclor-1260 {4}	300.060	391.490		-30.5#	115
21	L7	Aroclor-1260 {5}	686.255	847.004		-23.4#	119
22	S	DCB	9.662	13.065	E3	-35.2#	123

Out high

Signal #2
Continuing Calibration File: 16090552.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	6.259	8.416	E3	-34.5#	122
2	L1	Aroclor-1016	341.954	456.969		-33.6#	121
3	L1	Aroclor-1016 {2}	247.784	349.202		-40.9#	124
4	L1	Aroclor-1016 {3}	172.322	231.302		-34.2#	121
5	L1	Aroclor-1016 {4}	291.776	399.777		-37.0#	124
6	L1	Aroclor-1016 {5}	227.736	314.501		-38.1#	122
17	L7	Aroclor-1260	432.134	588.515		-36.2#	125
18	L7	Aroclor-1260 {2}	533.285	732.891		-37.4#	124
19	L7	Aroclor-1260 {3}	269.893	377.596		-39.9#	127
20	L7	Aroclor-1260 {4}	732.839	998.138		-36.2#	125
21	L7	Aroclor-1260 {5}	328.370	448.141		-36.5#	124
22	S	DCB	8.970	12.586	E3	-40.3#	124

Out high

(#) = Out of Range SPCC's out = 0 CCC's out = 0

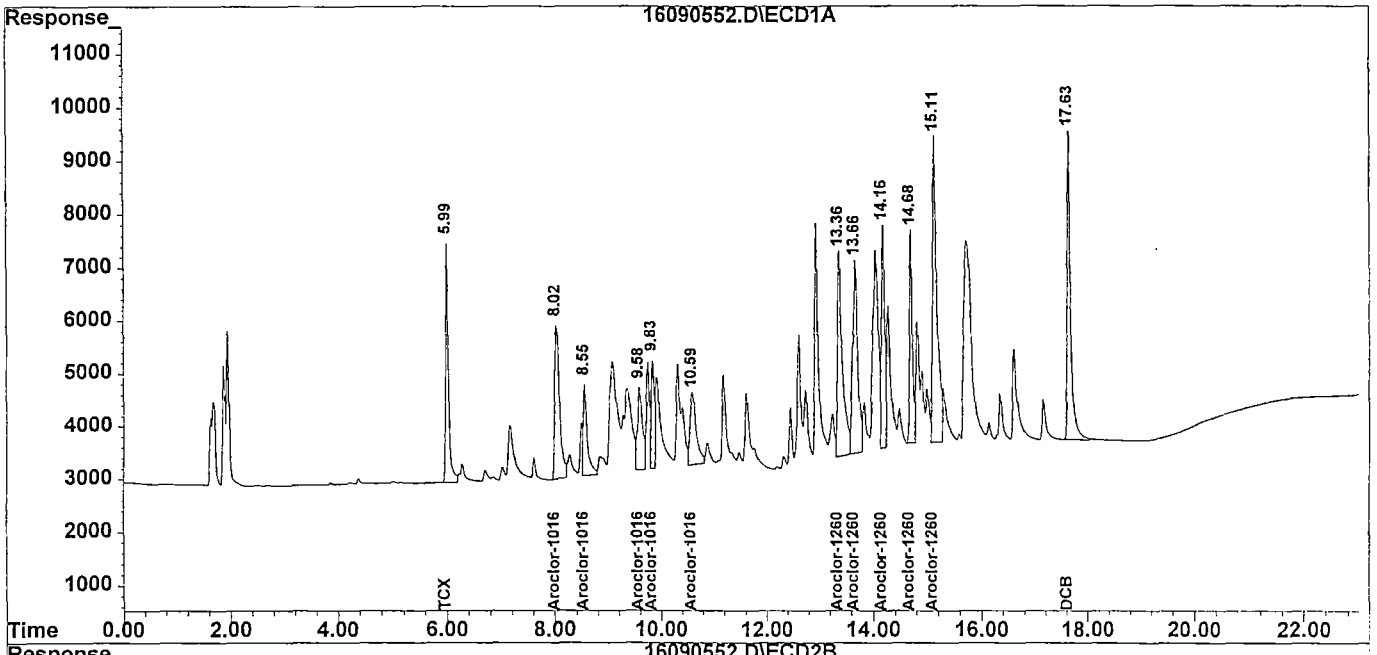
16090552.D XPCBI05.M Thu Sep 06 16:04:26 2001

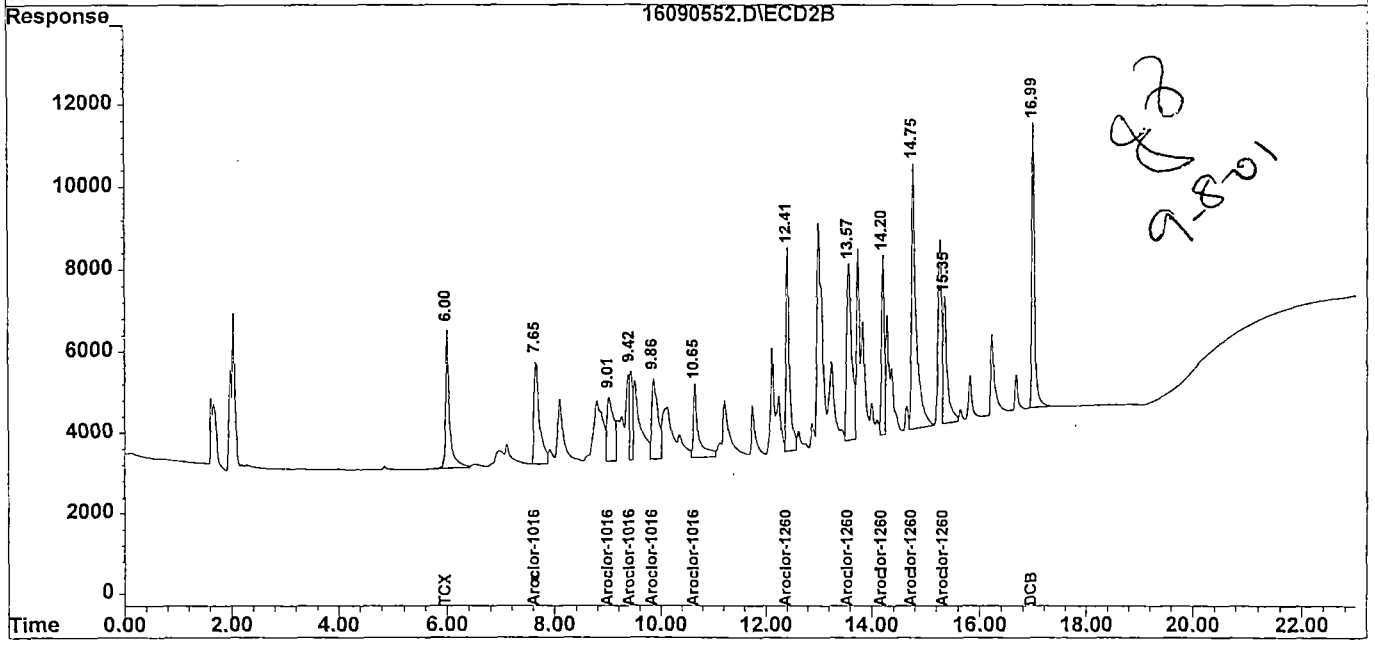
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090552.D\ECD1A.CH Vial: 52
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090552.D\ECD2B.CH
Acq On : 06 Sep 2001 14:59 Operator: DDC
Sample : AR1660L3CA Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 15:24 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090552.D\ECD1A.CH Vial: 52
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090552.D\ECD2B.CH
Acq On : 06 Sep 2001 14:59 Operator: DDC
Sample : AR1660L3CA Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 15:24 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.00	6.00	161175	168325	26.6	26.9
22)	S DCB	17.64	16.99	261302	251725	27.0	28.1
	Target Compounds:						
2)	L1 Aroclor-1016	8.03	7.65	180474	182788	530.4	534.5
3)	L1 Aroclor-1016 {2}	8.55	9.02	92415	139681	542.0	563.7
4)	L1 Aroclor-1016 {3}	9.58	9.43	99344	92521	491.9	536.9
5)	L1 Aroclor-1016 {4}	9.83	9.86	87135	159911	519.9	548.1
6)	L1 Aroclor-1016 {5}	10.60	10.65	112514	125800	461.6	552.4
	Sum Aroclor-1016			571882	700700	2545.9	2735.6
	Average Aroclor-1016					509.179	547.124
17)	L7 Aroclor-1260	13.36	12.41	251132	235406	533.3	544.8
18)	L7 Aroclor-1260 {2}	13.66	13.57	227581	293156	535.9	549.7
19)	L7 Aroclor-1260 {3}	14.17	14.20	180083	151038	541.6	559.6
20)	L7 Aroclor-1260 {4}	14.68	14.76	156596	399255	521.9	544.8
21)	L7 Aroclor-1260 {5}	15.12	15.35	338801	179256	493.7	545.9
	Sum Aroclor-1260			1154194	1258112	2626.4	2744.8
	Average Aroclor-1260					525.278	548.960

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

Continuing Calibration Report HP_16

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Thu Sep 06 16:03:35 2001
Response via : Initial Calibration

Continuing Calibration File: 16090553.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	6.062	7.227	E3	-19.2#	111
2	L1	Aroclor-1016	340.286	402.515		-18.3#	108
3	L1	Aroclor-1016 {2}	170.496	194.539		-14.1	100
4	L1	Aroclor-1016 {3}	201.944	202.179		-0.1	89
5	L1	Aroclor-1016 {4}	167.590	184.097		-9.8	98
6	L1	Aroclor-1016 {5}	243.731	228.618		6.2	81
17	L7	Aroclor-1260	470.937	517.861		-10.0	97
18	L7	Aroclor-1260 {2}	424.650	479.573		-12.9	100
19	L7	Aroclor-1260 {3}	332.486	394.850		-18.8#	106
20	L7	Aroclor-1260 {4}	300.060	342.324		-14.1	101
21	L7	Aroclor-1260 {5}	686.255	737.963		-7.5	103
22	S	DCB	9.662	11.757	E3	-21.7#	111

Signal #2
Continuing Calibration File: 16090553.D

		Compound	AvgRF	CCRF		%Dev	Area%	
1	S	TCX	6.259	7.492	E3	-19.7#	109	
2	L1	Aroclor-1016	341.954	405.345		-18.5#	108	
3	L1	Aroclor-1016 {2}	247.784	300.826		-21.4#	107	16.78%
4	L1	Aroclor-1016 {3}	172.322	200.392		-16.3#	105	
5	L1	Aroclor-1016 {4}	291.776	321.252		-10.1	99	
6	L1	Aroclor-1016 {5}	227.736	187.606		17.6#	73	
17	L7	Aroclor-1260	432.134	526.410		-21.8#	111	
18	L7	Aroclor-1260 {2}	533.285	639.142		-19.9#	108	
19	L7	Aroclor-1260 {3}	269.893	333.778		-23.7#	112	21.66%
20	L7	Aroclor-1260 {4}	732.839	881.941		-20.3#	110	
21	L7	Aroclor-1260 {5}	328.370	402.670		-22.6#	111	
22	S	DCB	8.970	11.244	E3	-25.4#	111	

(#) = Out of Range SPCC's out = 0 CCC's out = 0

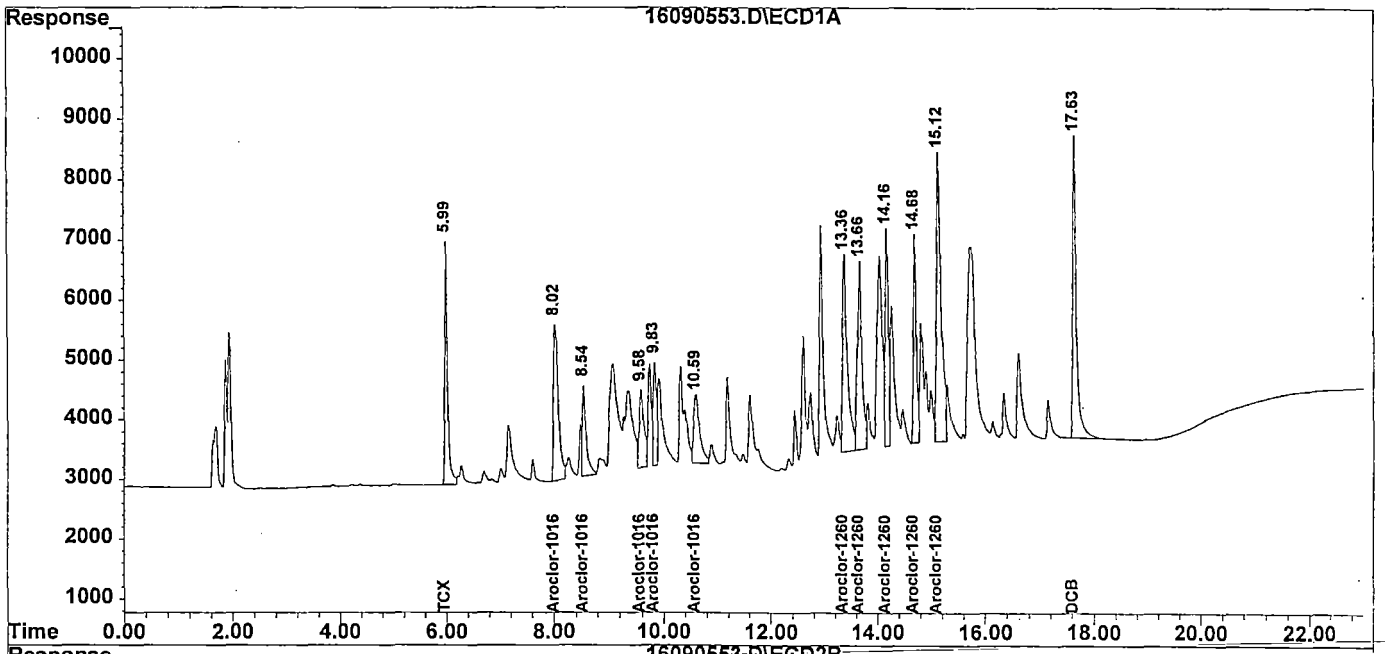
16090553.D XPCBI05.M Thu Sep 06 16:03:41 2001

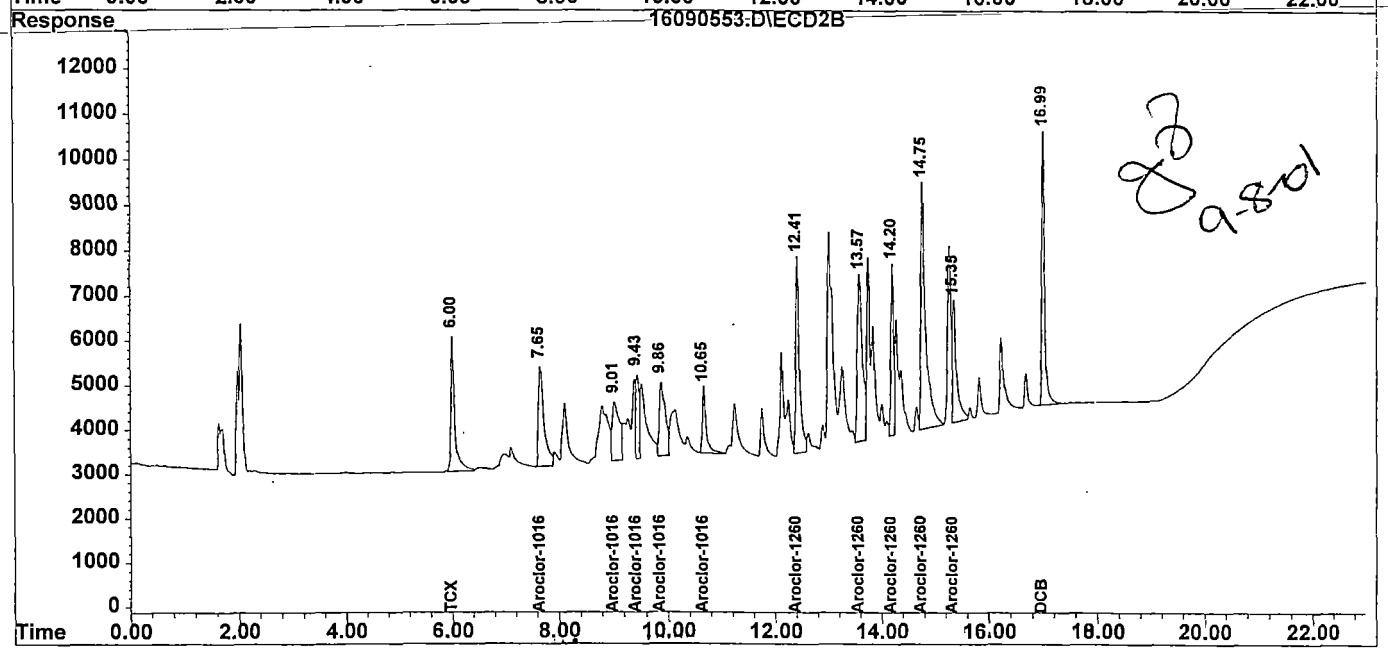
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090553.D\ECD1A.CH Vial: 53
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090553.D\ECD2B.CH
Acq On : 06 Sep 2001 15:27 Operator: DDC
Sample : AR1660L3CB Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 16:03 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





8 9-8-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090553.D\ECD1A.CH Vial: 53
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090553.D\ECD2B.CH
Acq On : 06 Sep 2001 15:27 Operator: DDC
Sample : AR1660L3CB Inst : HP_16
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 16:03 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.99	6.00	144532	149836	23.8	23.9
22)	S DCB	17.64	16.99	235139	224889	24.3	25.1
	Target Compounds:						
2)	L1 Aroclor-1016	8.02	7.65	161006	162138	473.1	474.2
3)	L1 Aroclor-1016 {2}	8.55	9.02	77816	120330	456.4	485.6
4)	L1 Aroclor-1016 {3}	9.58	9.43	80872	80157	400.5	465.2
5)	L1 Aroclor-1016 {4}	9.83	9.86	73639	128501	439.4	440.4
6)	L1 Aroclor-1016 {5}	10.60	10.66	91447	75043	375.2	329.5
	Sum Aroclor-1016			484780	566168	2144.6	2194.9
	Average Aroclor-1016					428.924	438.972
17)	L7 Aroclor-1260	13.36	12.41	207144	210564	439.9	487.3
18)	L7 Aroclor-1260 {2}	13.66	13.58	191829	255657	451.7	479.4
19)	L7 Aroclor-1260 {3}	14.17	14.20	157940	133511	475.0	494.7
20)	L7 Aroclor-1260 {4}	14.68	14.76	136930	352776	456.3	481.4
21)	L7 Aroclor-1260 {5}	15.12	15.35	295185	161068	430.1	490.5
	Sum Aroclor-1260			989028	1113577	2253.1	2433.2
	Average Aroclor-1260					450.620	486.648

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

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKSE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: BL0802SE

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

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	

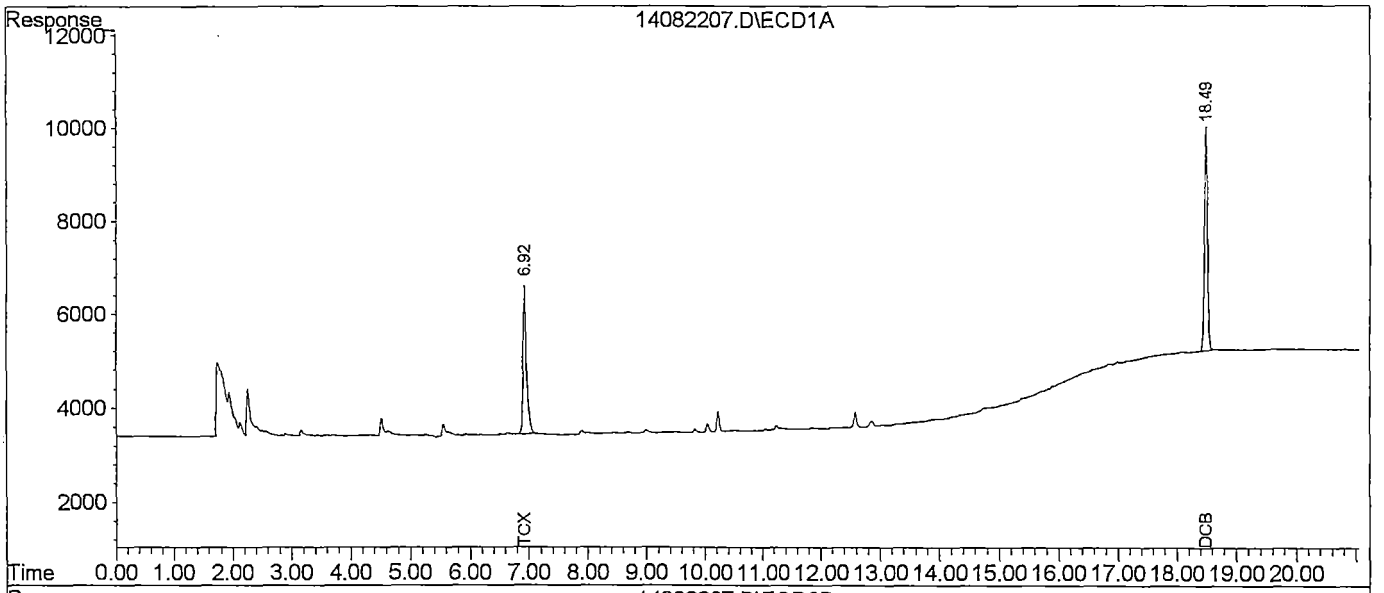
Chromatographic Report

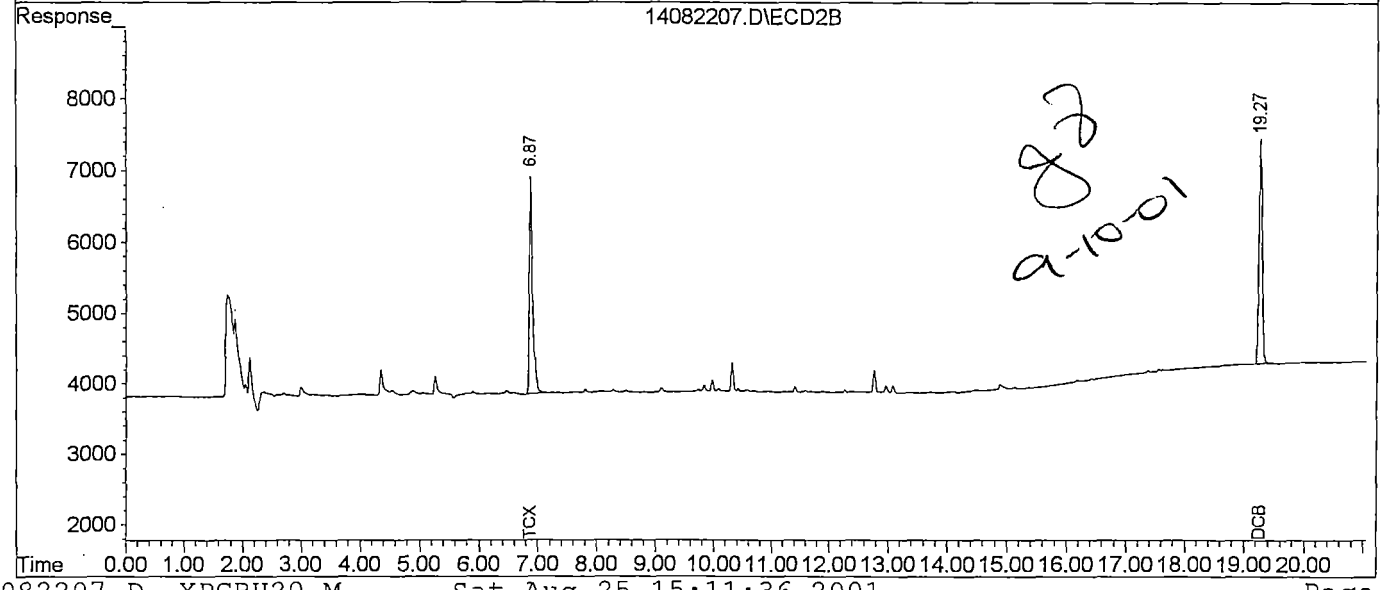
Data File : F:\HPCHEM\HP\14\DATA\08_22_01\14082207.D\ECD1A.CH Vial: 7
Acq On : 22 Aug 2001 12:42 Operator: TLM
Sample : BL0802SE *PBLKSE * Inst : HP_14
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile : events1.e

Data File : F:\HPCHEM\HP\14\DATA\08_22_01\14082207.D\ECD2B.CH Vial: 7
Acq On : 22 Aug 2001 12:42 Operator: TLM
Sample : BL0802SE *~~BL0802SE~~ * Inst : HP_14
Misc : **30G/5.0ML*0 PBLKSE gg 9/10/01 Dilution: 1.00
IntFile : events2.e
Quant Time: Aug 25 14:30 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





gg 9-10-01

Quantitation Report

Data File : F:\HPCHEM\HP\14\DATA\08_22_01\14082207.D\ECD1A.CH Vial: 7
Acq On : 22 Aug 2001 12:42 Operator: TLM
Sample : BL0802SE *PBLKSE * Inst : HP_14
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile : events1.e

Data File : F:\HPCHEM\HP\14\DATA\08_22_01\14082207.D\ECD2B.CH Vial: 7
Acq On : 22 Aug 2001 12:42 Operator: TLM
Sample : BL0802SE *~~BL0802SE~~ * Inst : HP_14
Misc : **30G/5.0ML*0 PBLKSE gB 9/10/01 Dilution: 1.00
IntFile : events2.e
Quant Time: Aug 25 14:30 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	6.92f	6.87	129963	115549	4.211	4.097
	Spiked Amount 6.667			Recovery	=	63.17%	61.46%
22)	S DCB	18.49	19.27	174501	111961	5.774	5.777
	Spiked Amount 6.667			Recovery	=	86.61%	86.66%

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

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKS1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: BL0802SE

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/29/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

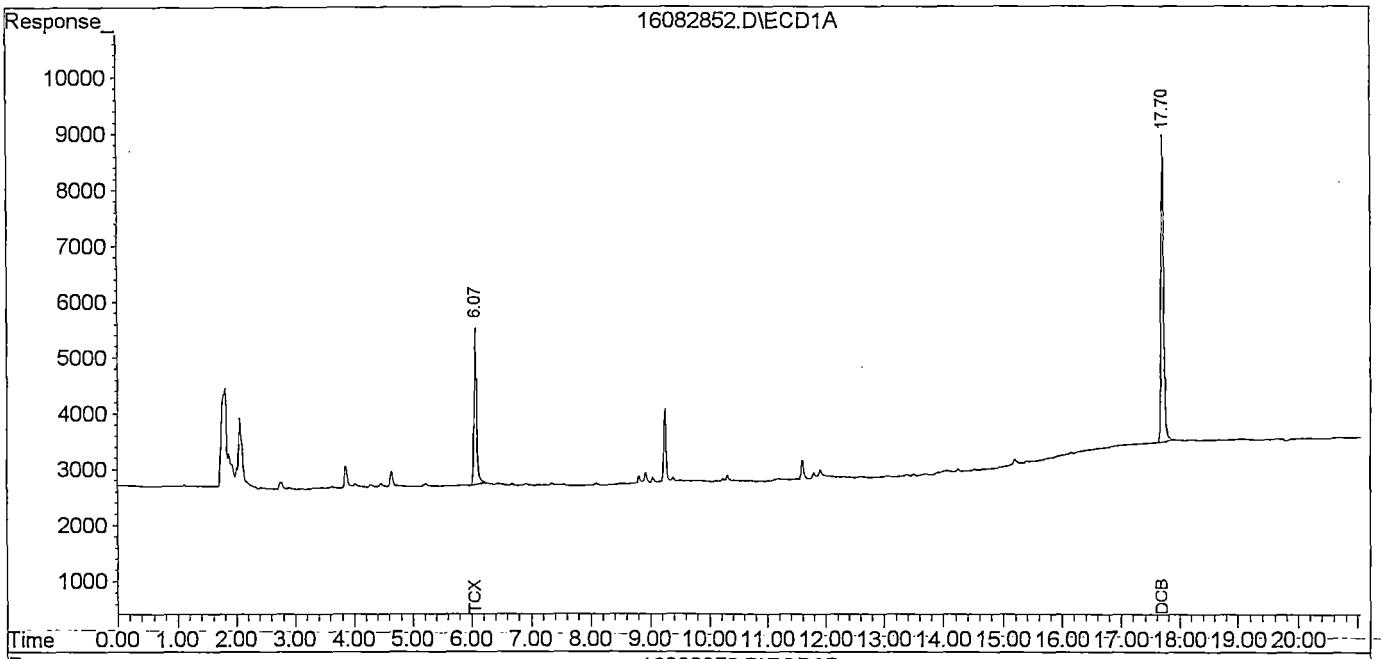
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

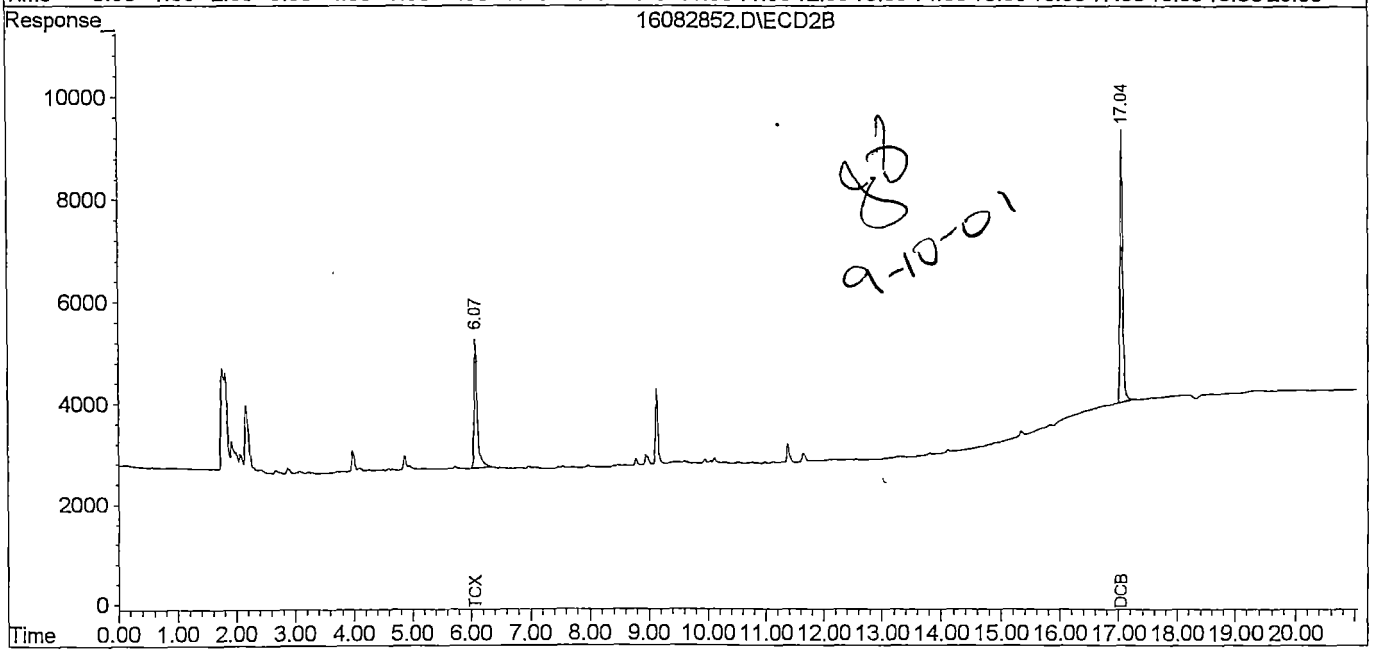
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082852.D\ECD1A.CH Vial: 52
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082852.D\ECD2B.CH
Acq On : 29 Aug 2001 9:29 Operator: TLM
Sample : BL0802SE1 *PBLKSE1 * 3 curve st 5/10/01 Inst : HP_16
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 18:14 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082852.D\ECD1A.CH Vial: 52
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082852.D\ECD2B.CH
Acq On : 29 Aug 2001 9:29 Operator: TLM
Sample : BL0802S~~F~~E*PBLKS~~E~~1 * 2 conv st 9/10/01 Inst : HP_16
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 18:14 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	6.07	6.08	83853	93134	5.595	5.545
	Spiked Amount 6.667			Recovery	=	83.93%	83.18%
22)	S DCB	17.70	17.05	169818	165388	6.739	7.117
	Spiked Amount 6.667			Recovery	=	101.09%	106.76%

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKS2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: BL0802SE

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/07/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

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	

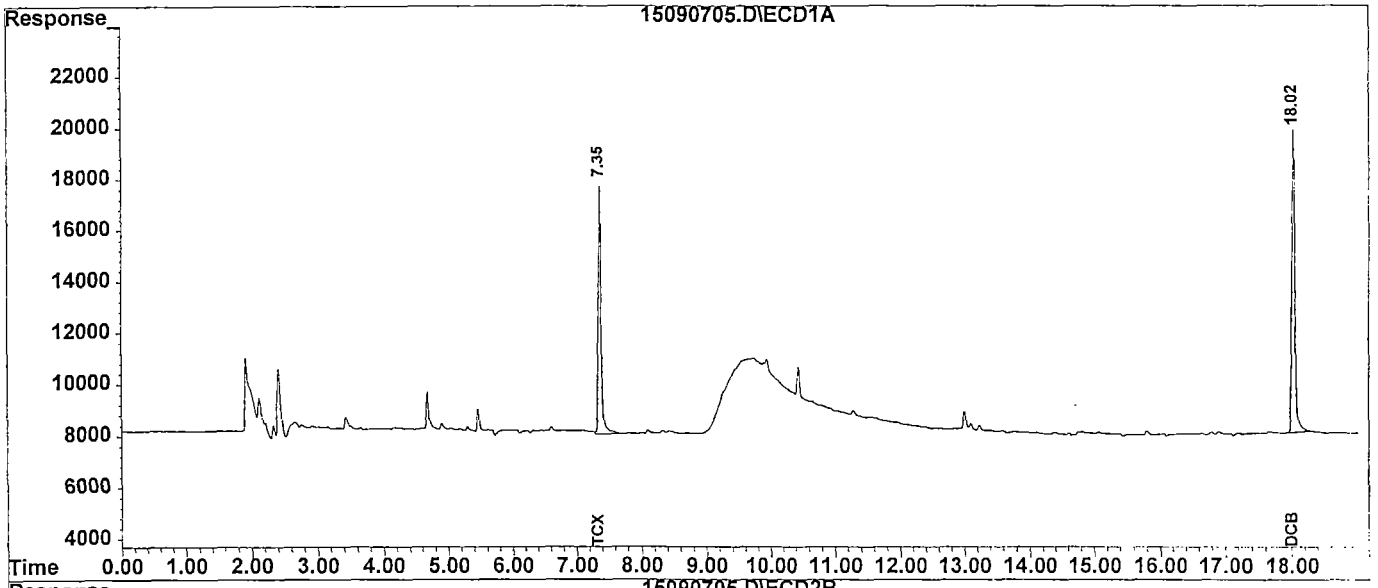
Chromatographic Report

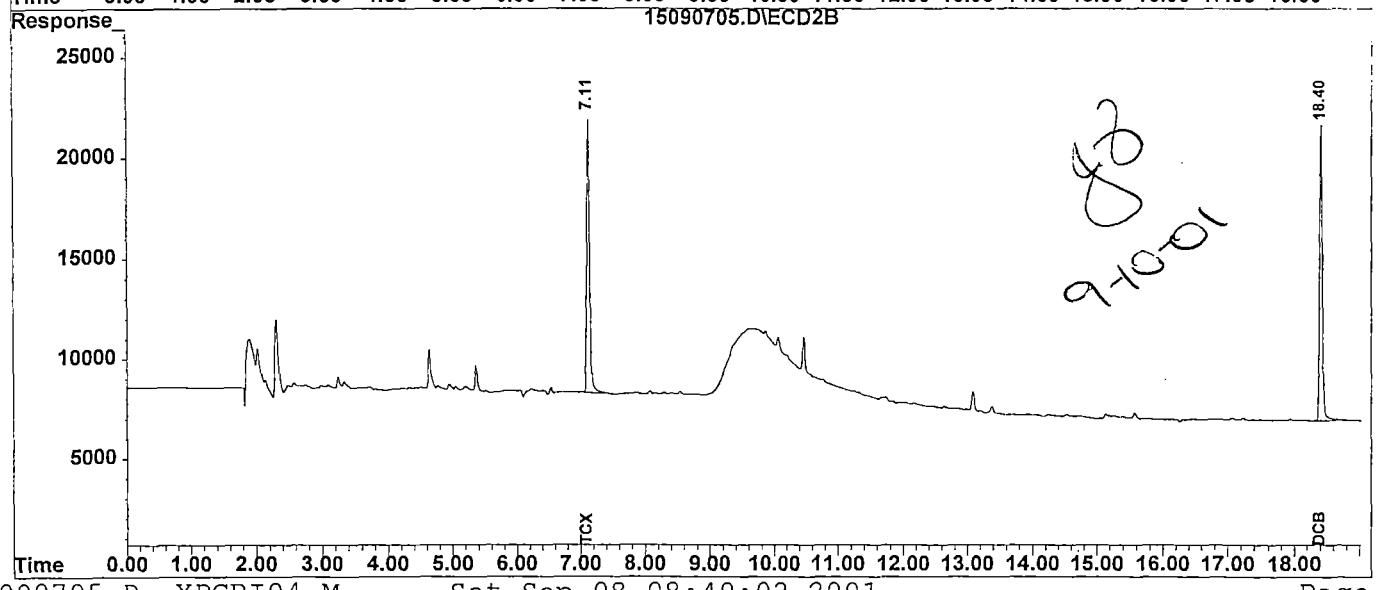
Data File : F:\HPCHEM\HP\15\DATA\09_07_01\15090705.D\ECD1A.CH Vial: 58
Acq On : 07 Sep 2001 14:45 Operator: DDC
Sample : BL0802SE*PBLKSE2* 3 cow 9/10/01 Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\09_07_01\15090705.D\ECD2B.CH Vial: 58
Acq On : 07 Sep 2001 14:45 Operator: DDC
Sample : BL0802SE Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Sep 8 8:39 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Fri Sep 07 16:29:03 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





9-10-01

Quantitation Report

```
Data File : F:\HPCHEM\HP\15\DATA\09_07_01\15090705.D\ECD1A.CH Vial: 58
Acq On    : 07 Sep 2001  14:45                          Operator: DDC
Sample    : BL0802SE 5* PBLKSE 2*   5f 9/10/01 3 cam    Inst    : HP_15
Misc      : **30G/5.0ML*0                               Dilution: 1.00
IntFile   : events.e

Data File : F:\HPCHEM\HP\15\DATA\09_07_01\15090705.D\ECD2B.CH Vial: 58
Acq On    : 07 Sep 2001  14:45                          Operator: DDC
Sample    : BL0802SE                                    Inst    : HP_15
Misc      :                                             Dilution: 1.00
IntFile   : events2.e
Quant Time: Sep  8  8:39 2001  Quant Results File: XPCBI04.RES

Method       : F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title-Path   : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update  : Fri Sep 07 16:29:03 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	7.36	7.12	305217	411684	4.415	5.116
	Spiked Amount 6.667			Recovery	=	66.23%	76.74%
22)	S DCB	18.03	18.41	374760	456143	5.180	5.529
	Spiked Amount 6.667			Recovery	=	77.70%	82.94%

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKS3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: BB0827SE

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/27/01

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

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

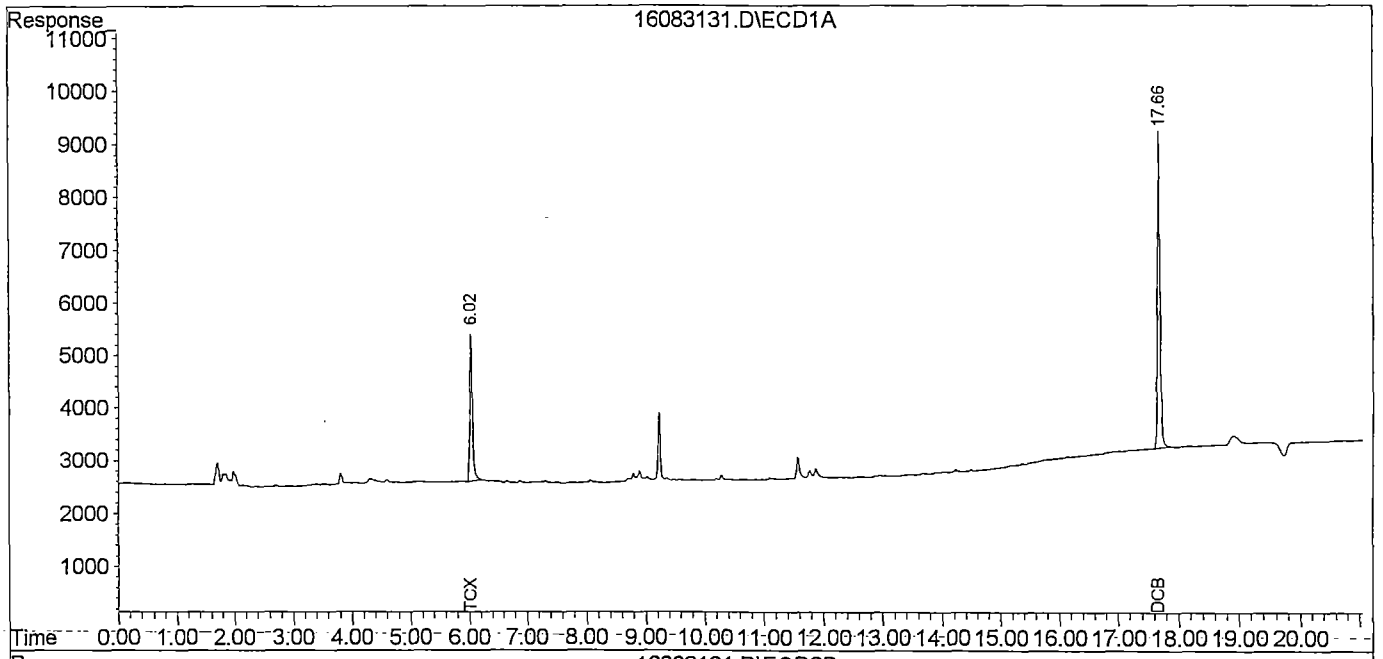
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U
Surrogate amount spiked		6.67	

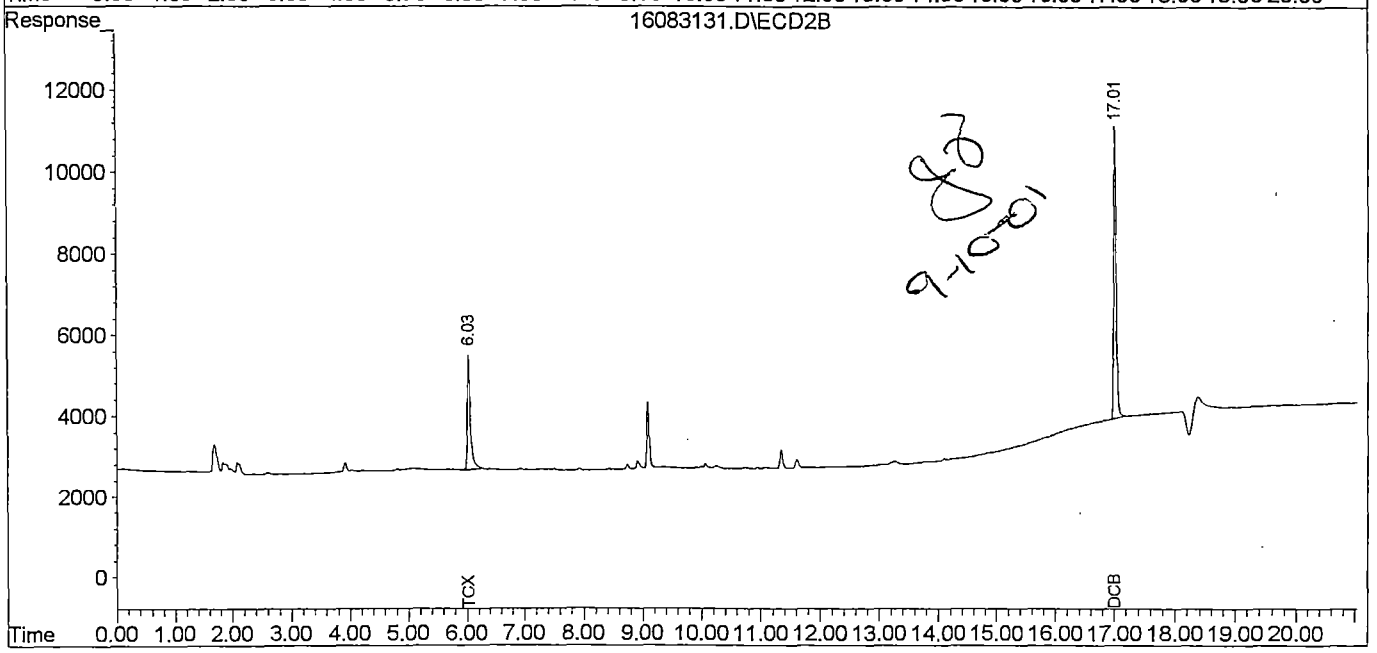
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083131.D\ECD1A.CH Vial: 31
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083131.D\ECD2B.CH
Acq On : 01 Sep 2001 2:10 Operator: TLM
Sample : BB0827SE *PBLKSE#3* 9/10/01 Inst : HP_16
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 12:25 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083131.D\ECD1A.CH Vial: 31
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083131.D\ECD2B.CH
Acq On : 01 Sep 2001 2:10 Operator: TLM
Sample : BB0827SE *PBLKSE 3* ST 9/10/01 Inst : HP_16
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 12:25 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	85061	103279	2.782	2.816
	Spiked Amount 6.667			Recovery	=	41.73%	42.24%
22)	S DCB	17.66	17.02	175609	213324	3.333	3.959
	Spiked Amount 6.667			Recovery	=	50.00%	59.39%
	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.

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAJ

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 08/21/01

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 Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 08/21/01

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\14\DATA\08_20_01\14082029.D\ECD1A.CH Vial: 29
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082029.D\ECD2B.CH
Acq On : 21 Aug 2001 1:37 Operator: TLM
Sample : PIBLKAJ ✓ Inst : HP_14
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 16:49 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

OK 8-24-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.90	6.86	180059	175873	17.5	18.7
22)	S DCB	18.51	19.28	187681	121681	18.6	18.8
	Target Compounds:						

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29546 SDG E0041
Signature S Dackett
Date 8/31/01

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

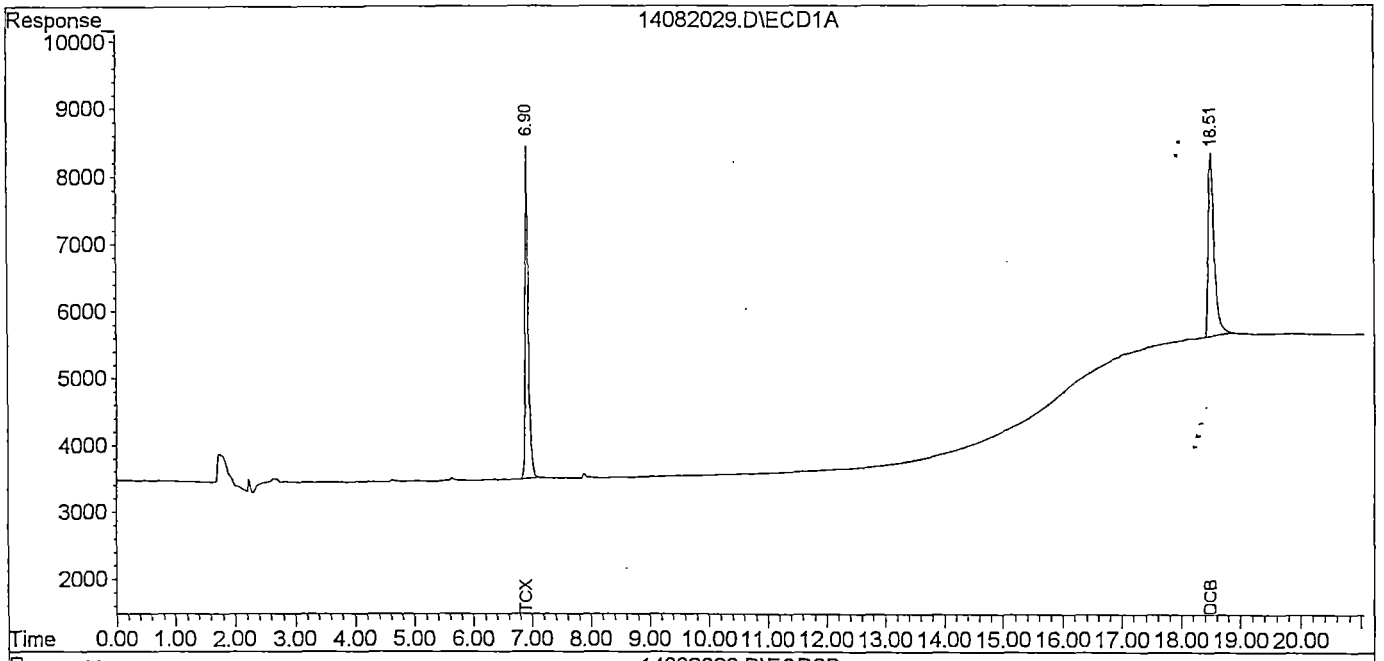
Chromatographic Report

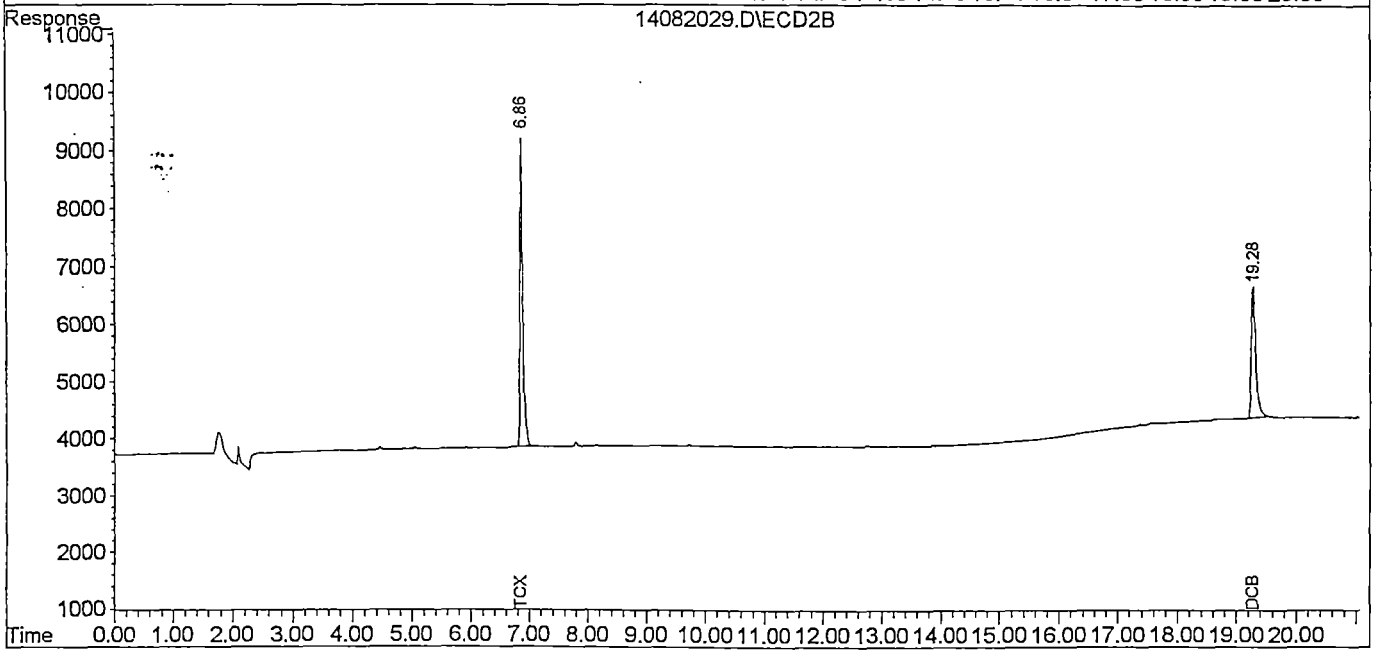
Signal #1 : F:\HPCHEM\HP\14\DATA\08_20_01\14082029.D\ECD1A.CH Vial: 29
Signal #2 : F:\HPCHEM\HP\14\DATA\08_20_01\14082029.D\ECD2B.CH
Acq On : 21 Aug 2001 1:37 Operator: TLM
Sample : PIBLKAJ Inst : HP_14
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 21 16:49 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_20_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

OK 8.24-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 08/22/01

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.

PIBLKAL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 08/22/01

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\14\DATA\08_22_01\14082204.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082204.D\ECD2B.CH
Acq On : 22 Aug 2001 10:21 Operator: TLM
Sample : PIBLKAL Inst : HP_14
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 22 11:44 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

OK 8-27-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	201950	174577	19.6	18.6
22)	S DCB	18.50	19.28	192924	125503	19.2	19.4
	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

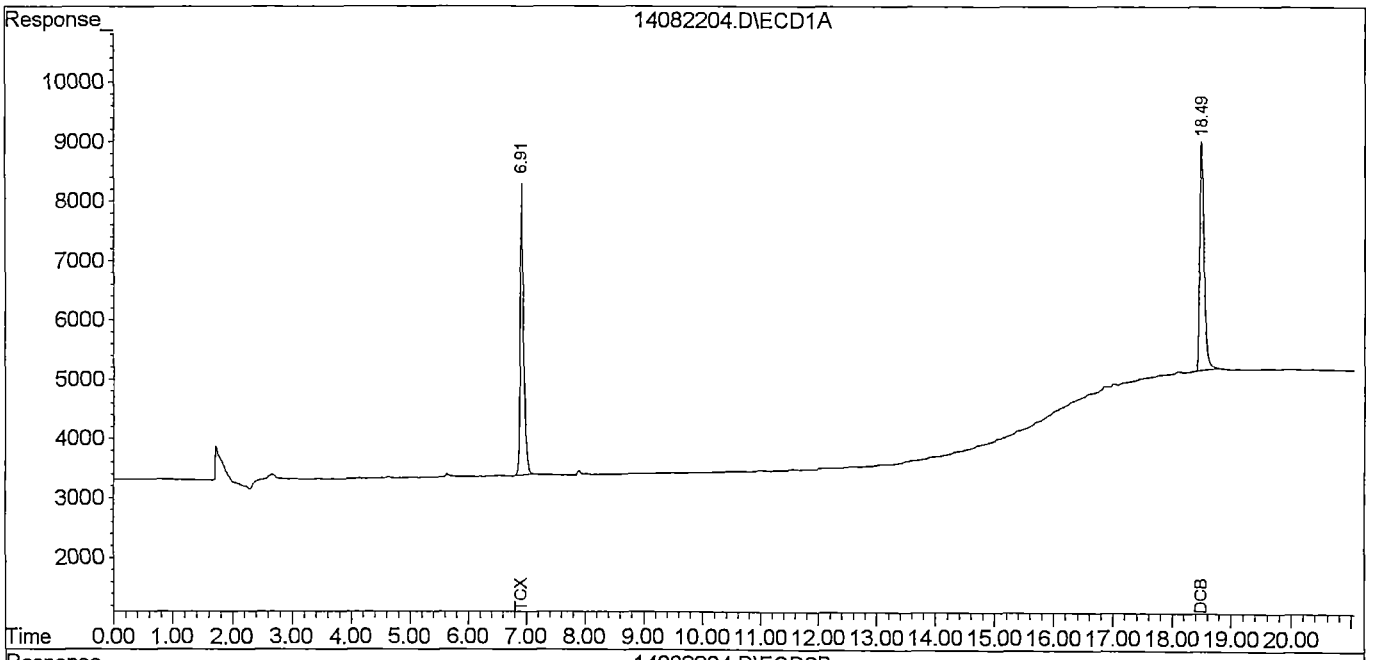
Chromatographic Report

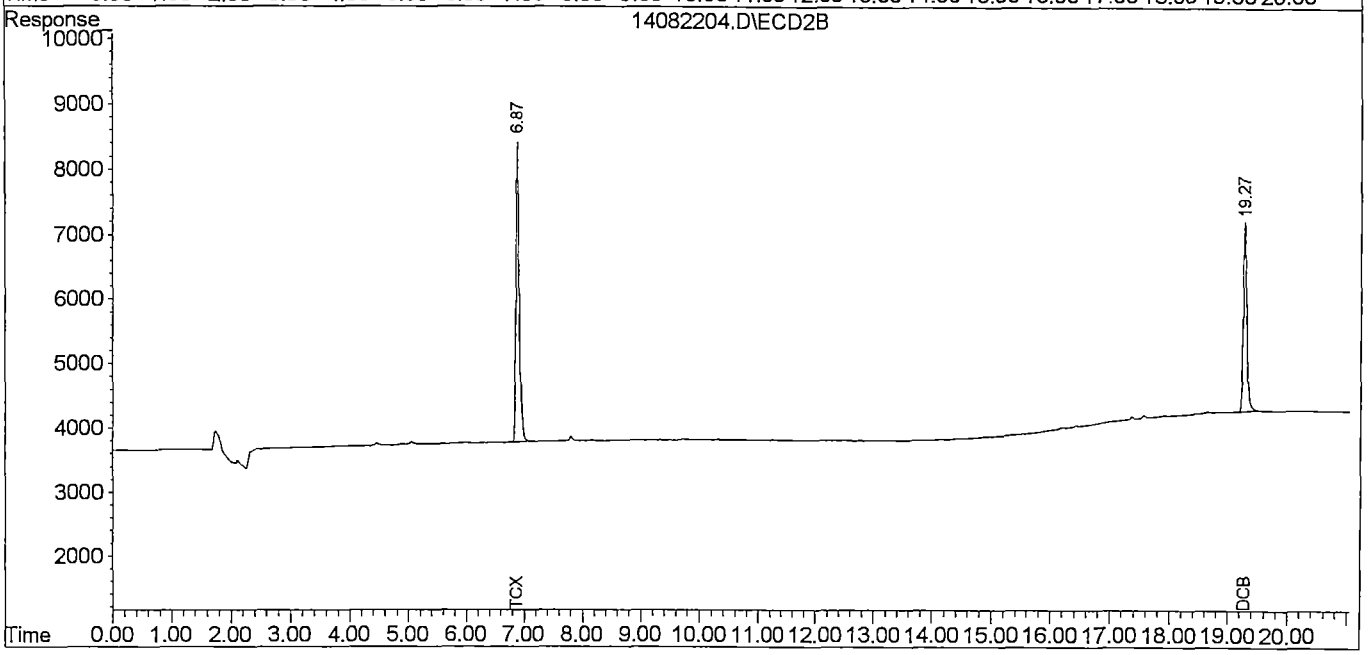
Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082204.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082204.D\ECD2B.CH
Acq On : 22 Aug 2001 10:21 Operator: TLM
Sample : PIBLKAL Inst : HP_14
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 22 11:44 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

OK
8-27-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAM

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 08/22/01

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.

PIBLKAM

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 08/22/01

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

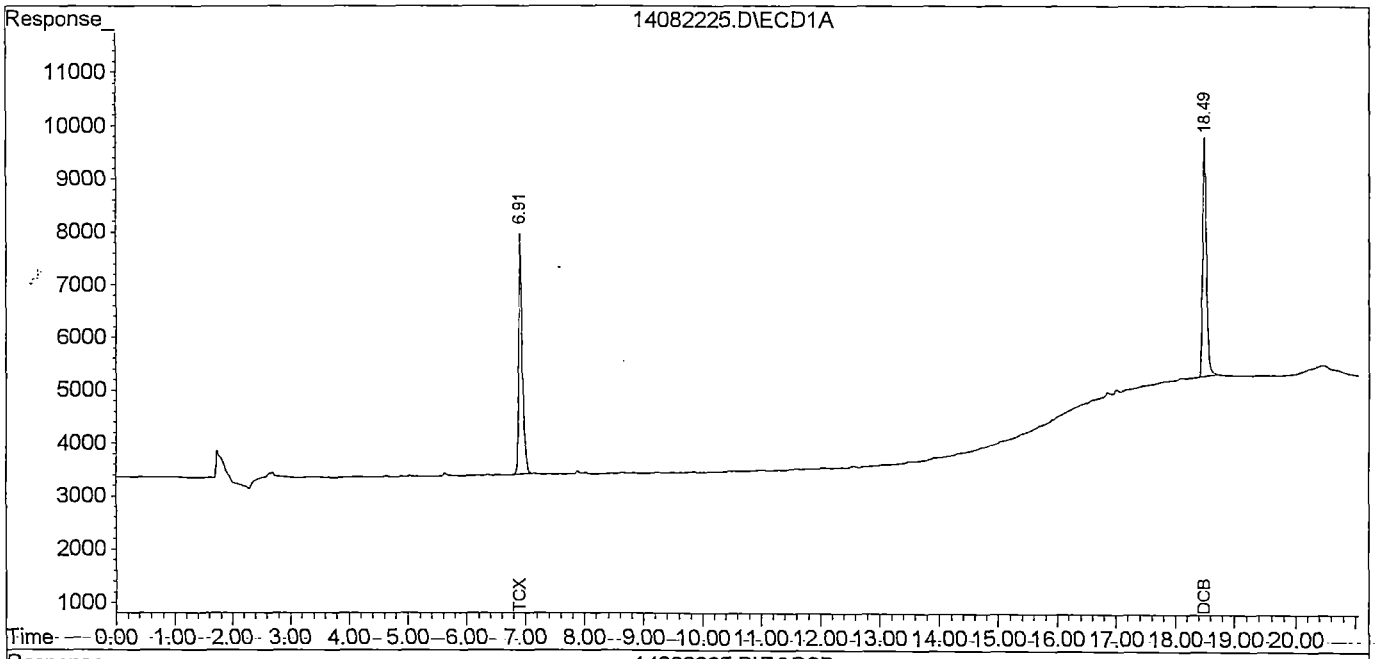
Chromatographic Report

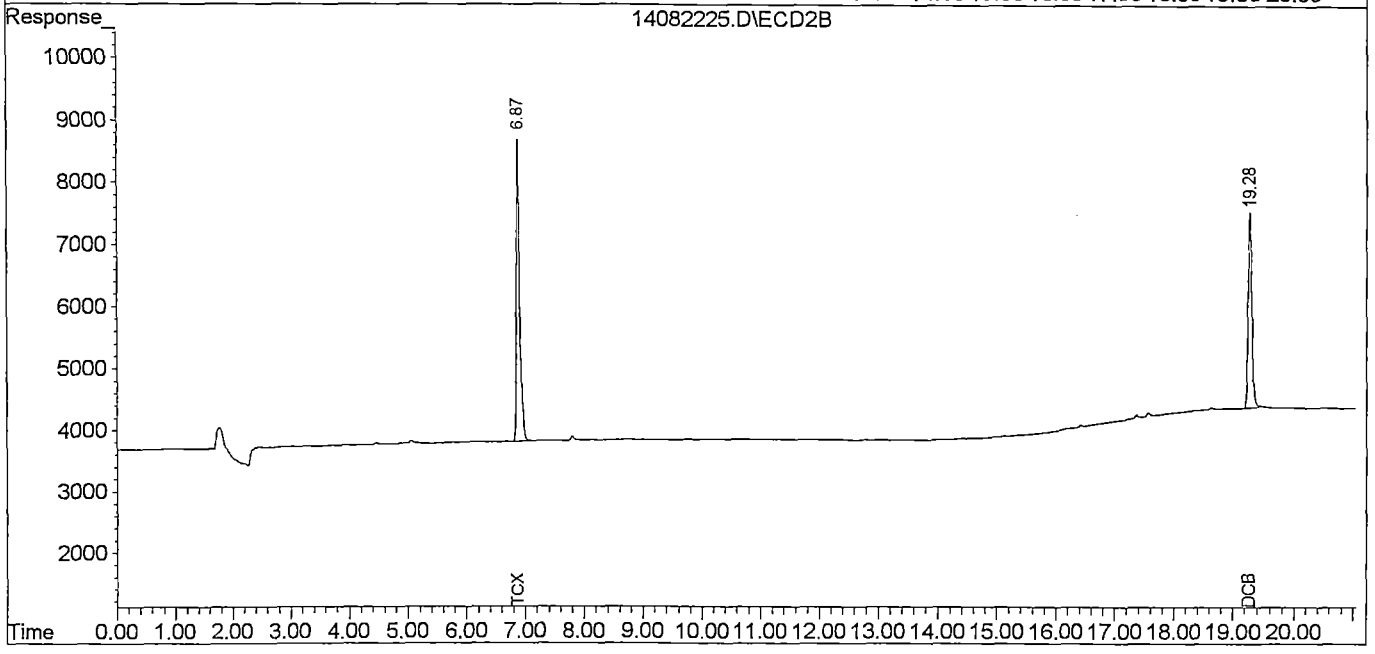
Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082225.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082225.D\ECD2B.CH
Acq On : 22 Aug 2001 19:58 Operator: TLM
Sample : PIBLKAM Inst : HP_14
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 24 12:41 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

OK 8-27-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082225.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082225.D\ECD2B.CH
Acq On : 22 Aug 2001 19:58 Operator: TLM
Sample : PIBLKAM Inst : HP_14
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 24 12:41 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	187732	185915	18.2	19.8
22)	S DCB	18.50	19.28	202928	126151	20.1	19.5
	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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAN

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 08/23/01

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.

PIBLKAN

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 08/23/01

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

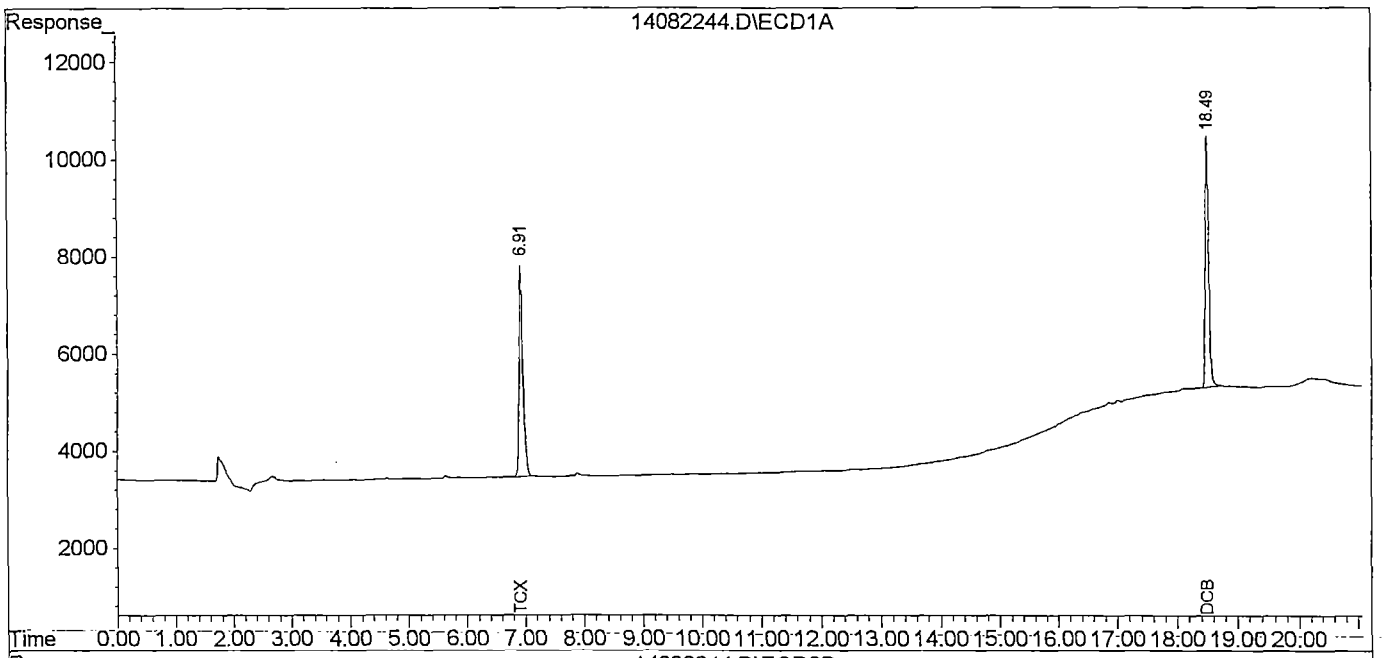
Chromatographic Report

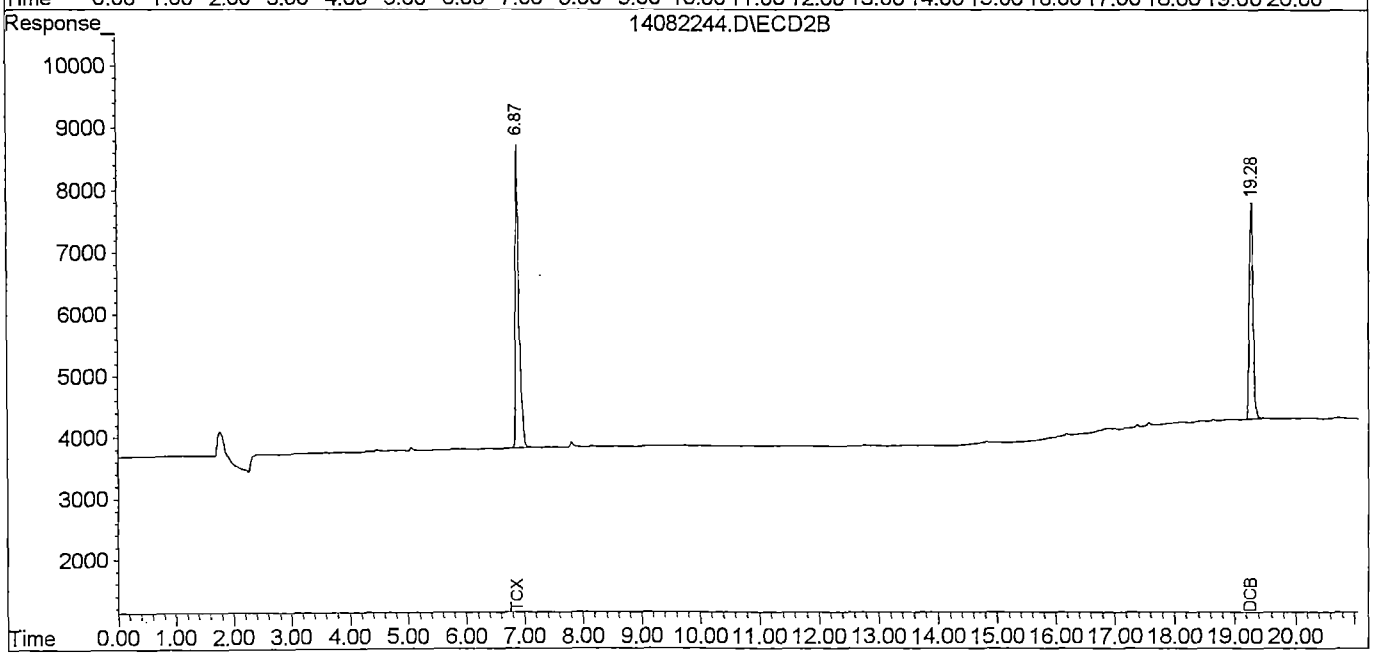
Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082244.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082244.D\ECD2B.CH
Acq On : 23 Aug 2001 3:37 Operator: TLM
Sample : PIBLKAN Inst : HP_14
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 24 12:43 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

OK 8-27-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082244.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082244.D\ECD2B.CH
Acq On : 23 Aug 2001 3:37 Operator: TLM
Sample : PIBLKAN Inst : HP_14
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 24 12:43 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.91	6.88	191030	198492	18.6	21.1
22)	S DCB	18.50	19.28	205760	132196	20.4	20.5
	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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKBF

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/07/01

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.

PIBLKBF

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/07/01

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

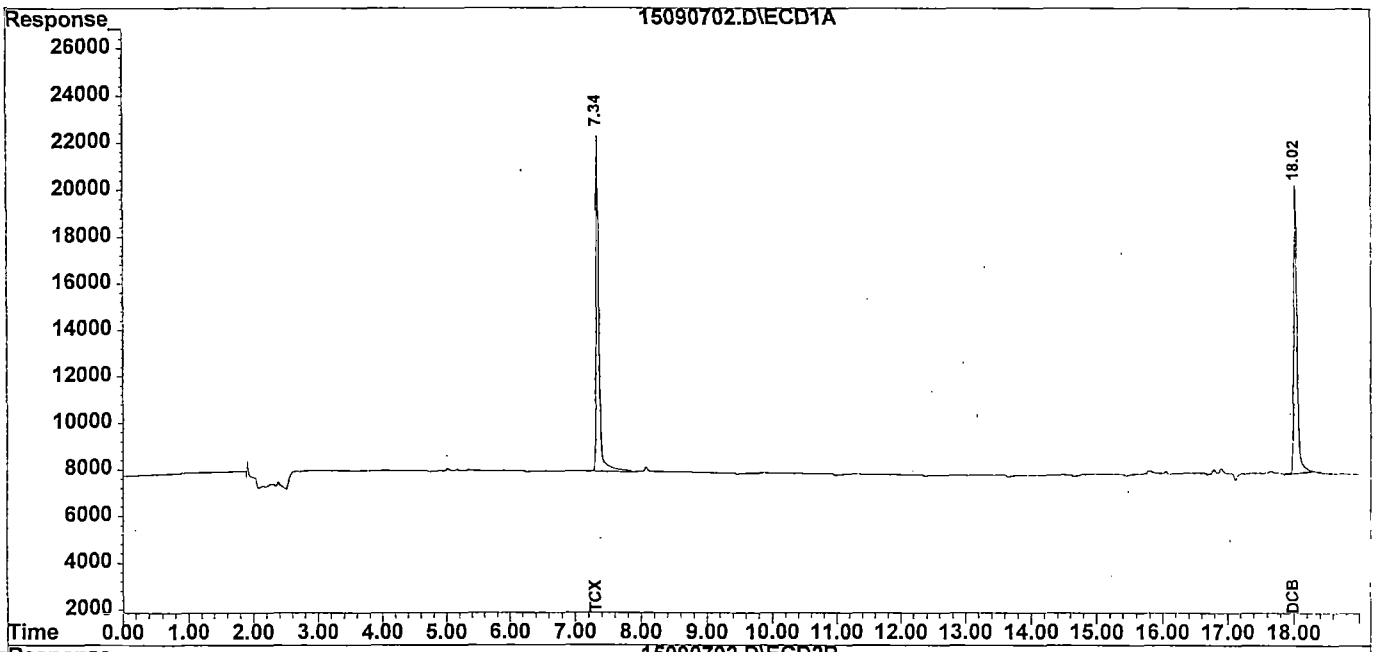
FORM I PCB

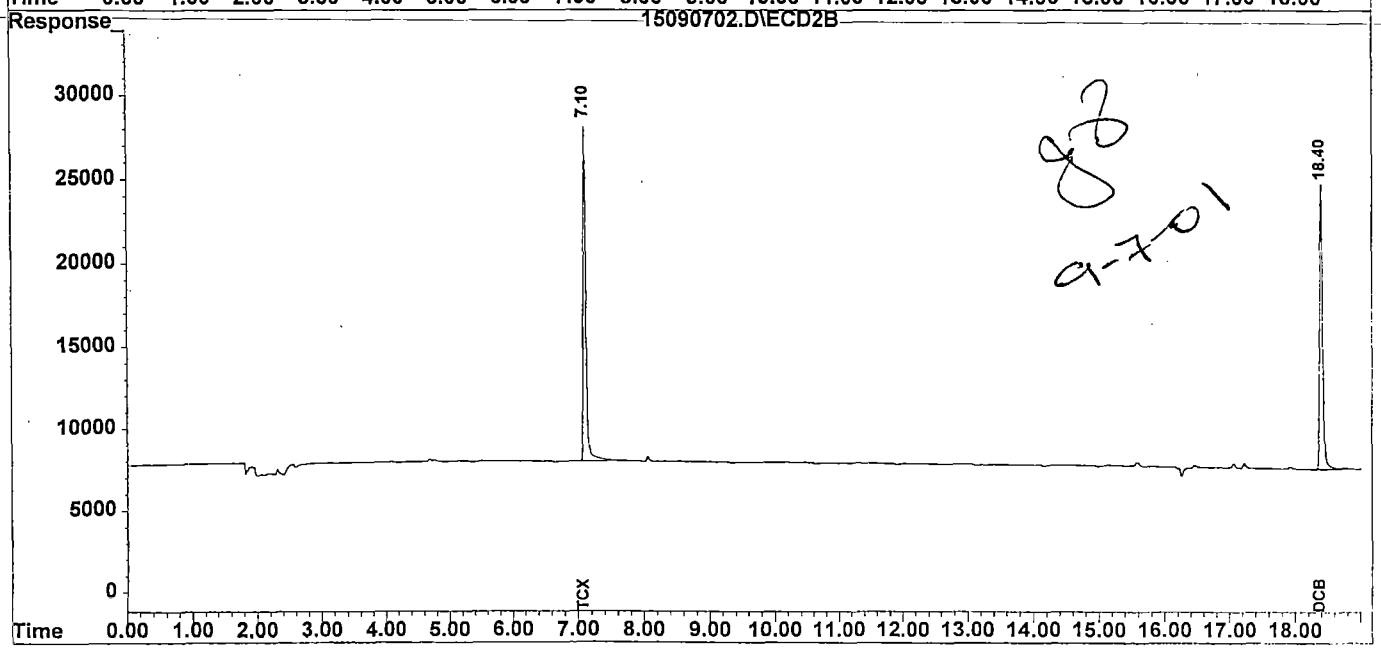
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_07_01\15090702.D\ECD1A.CH Vial: 55
Signal #2 : F:\HPCHEM\HP\15\DATA\09_07_01\15090702.D\ECD2B.CH
Acq On : 07 Sep 2001 10:06 Operator: DDC
Sample : PIBLKBF Inst : HP_15
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 7 15:31 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Fri Sep 07 11:14:04 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
9-7-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_07_01\15090702.D\ECD1A.CH Vial: 55
Signal #2 : F:\HPCHEM\HP\15\DATA\09_07_01\15090702.D\ECD2B.CH
Acq On : 07 Sep 2001 10:06 Operator: DDC
Sample : PIBLKBF Inst : HP_15
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 7 15:31 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Fri Sep 07 15:31:50 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	7.34	7.11	458298	624033	19.9	23.3
22)	S DCB	18.02	18.40	430506	579014	17.9	21.1

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKBG

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/07/01

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.

PIBLKBG

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/07/01

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

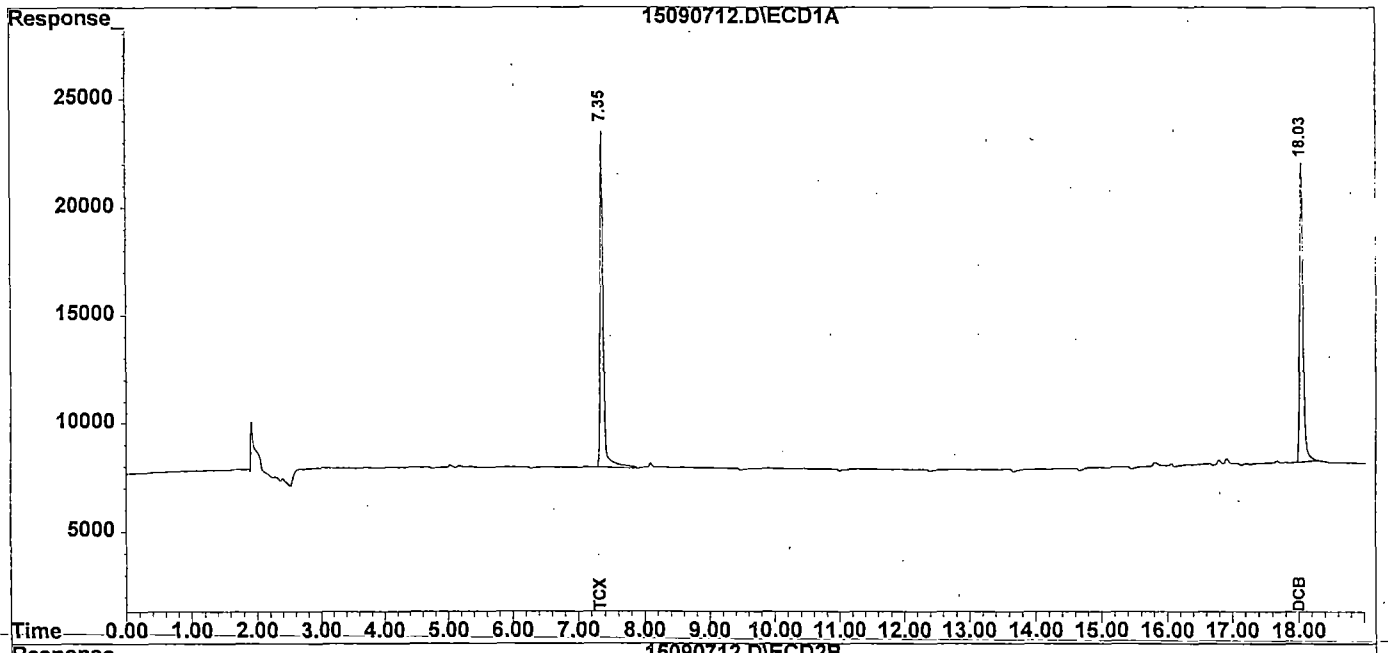
FORM I PCB

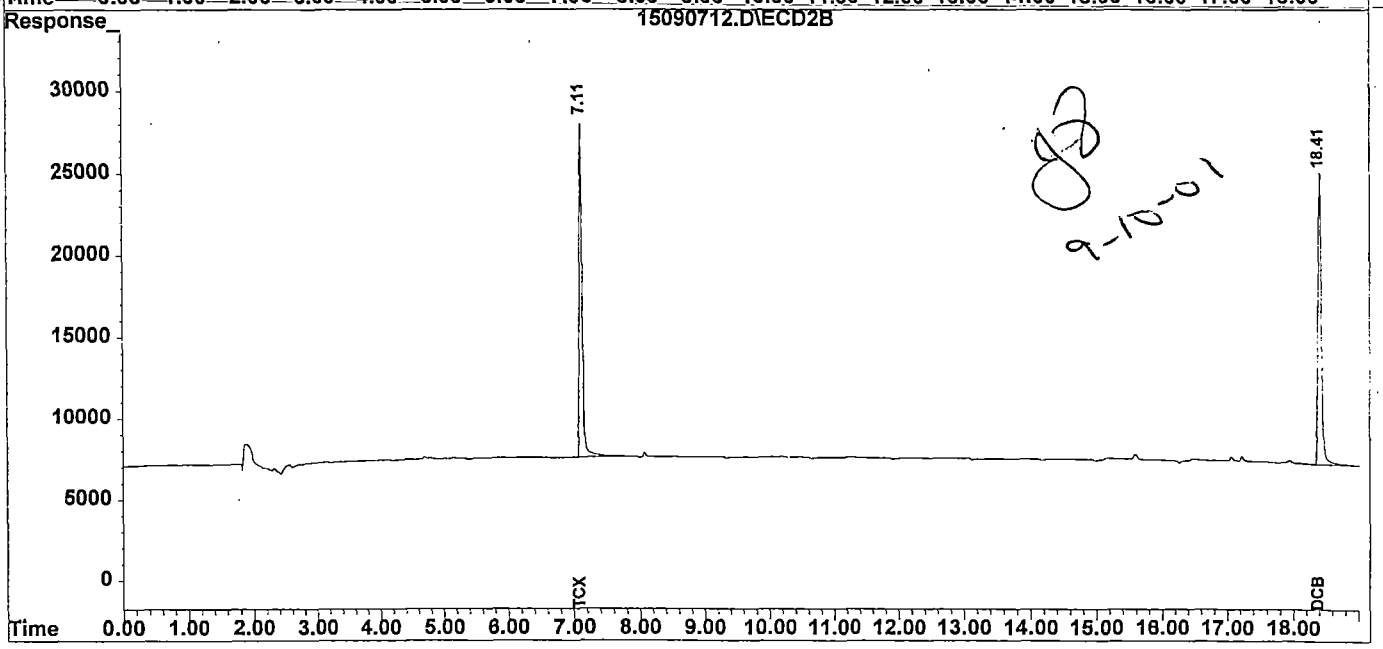
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_07_01\15090712.D\ECD1A.CH Vial: 65
Signal #2 : F:\HPCHEM\HP\15\DATA\09_07_01\15090712.D\ECD2B.CH
Acq On : 07 Sep 2001 17:31 Operator: DDC
Sample : PIBLKBG Inst : HP_15
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 8 8:34 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Fri Sep 07 16:29:03 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





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_07_01\15090712.D\ECD1A.CH Vial: 65
Signal #2 : F:\HPCHEM\HP\15\DATA\09_07_01\15090712.D\ECD2B.CH
Acq On : 07 Sep 2001 17:31 Operator: DDC
Sample : PIBLKBG Inst : HP_15
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 8 8:34 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_07_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Sat Sep 08 08:36:42 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	7.36	7.12	496915	620999	21.6	23.2
22)	S DCB	18.04	18.41	492917	615987	20.4	22.4

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKBW

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/04/01

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.

PIBLKBW

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/04/01

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

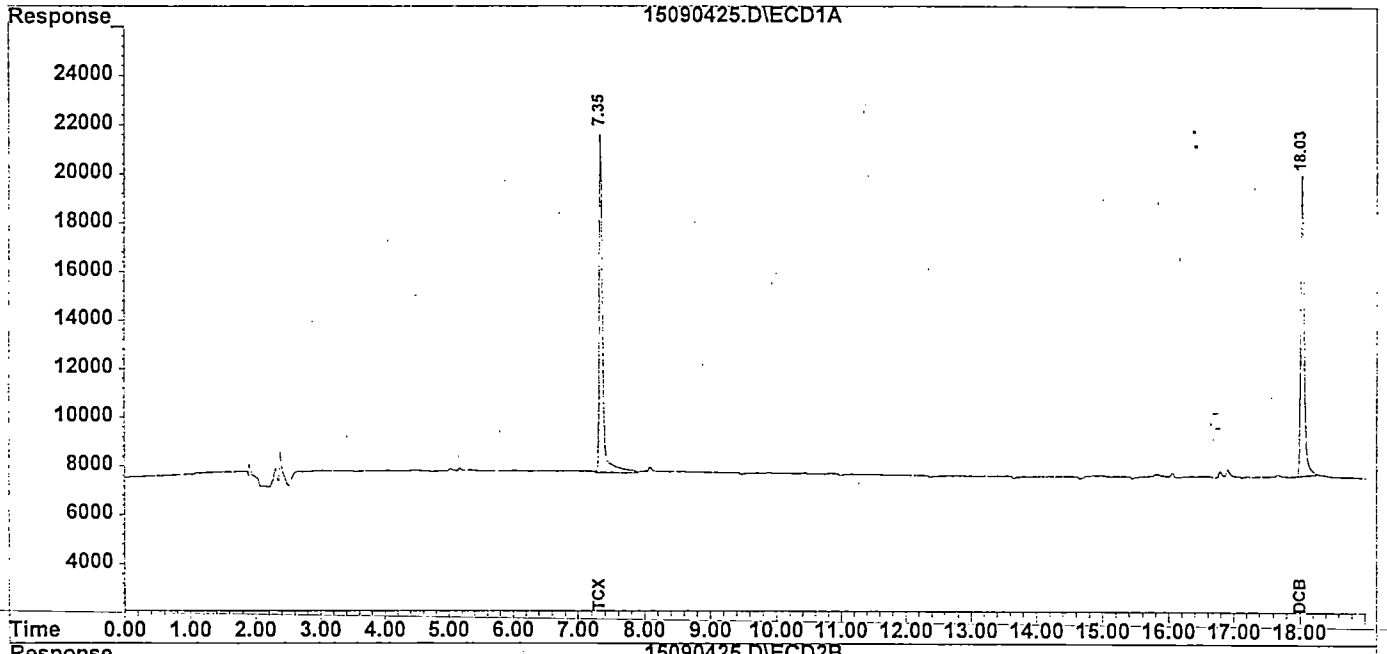
FORM I PCB

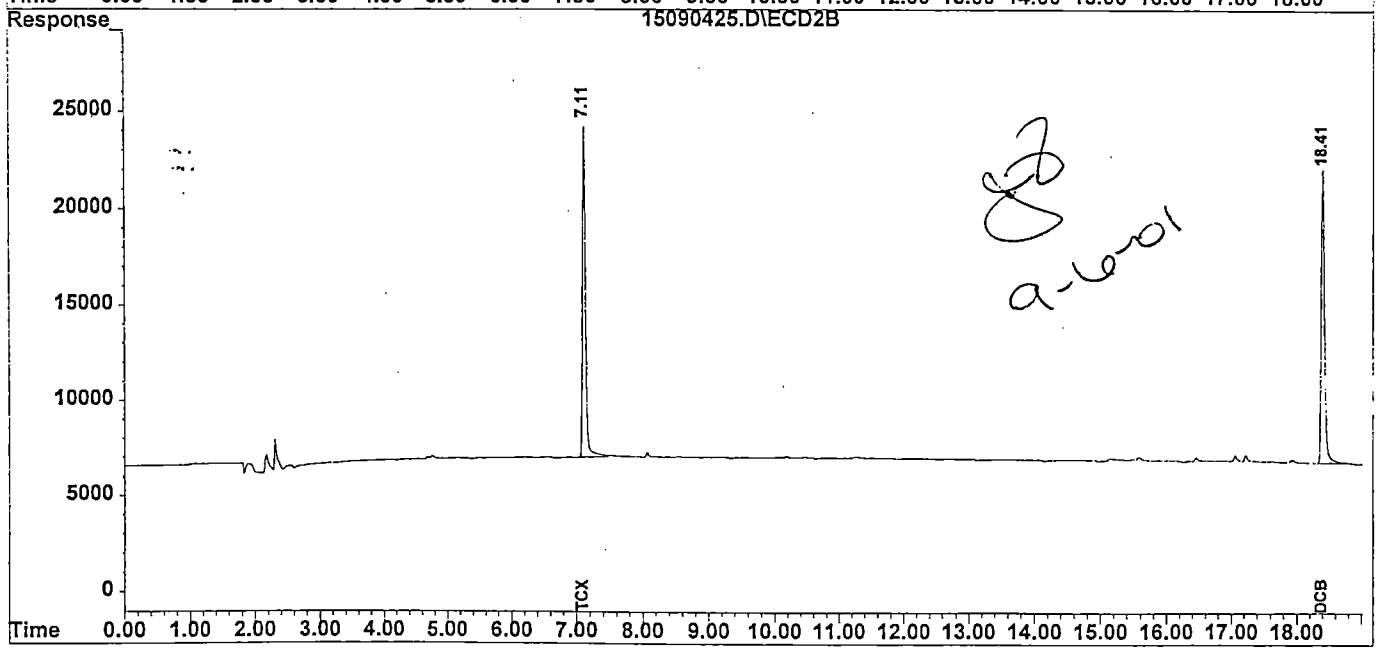
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090425.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090425.D\ECD2B.CH
Acq On : 04 Sep 2001 21:02 Operator: DDC
Sample : PIBLKBW Inst : HP_15
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 9:09 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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





9-6-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\09_04_01\15090425.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\15\DATA\09_04_01\15090425.D\ECD2B.CH
Acq On : 04 Sep 2001 21:02 Operator: DDC
Sample : PIBLKBW Inst : HP_15
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 5 9:09 2001 Quant Results File: XPCBI04.RES

Method : F:\HPCHEM\HP\15\DATA\09_04_01\XPCBI04.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_04_01\
Last Update : Tue Aug 21 14:24:35 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	7.35	7.11	482523	541155	20.9	20.2
22)	S DCB	18.03	18.41	452734	536384	18.8	19.5

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKCF

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 08/28/01

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.

PIBLKCF

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 08/28/01

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

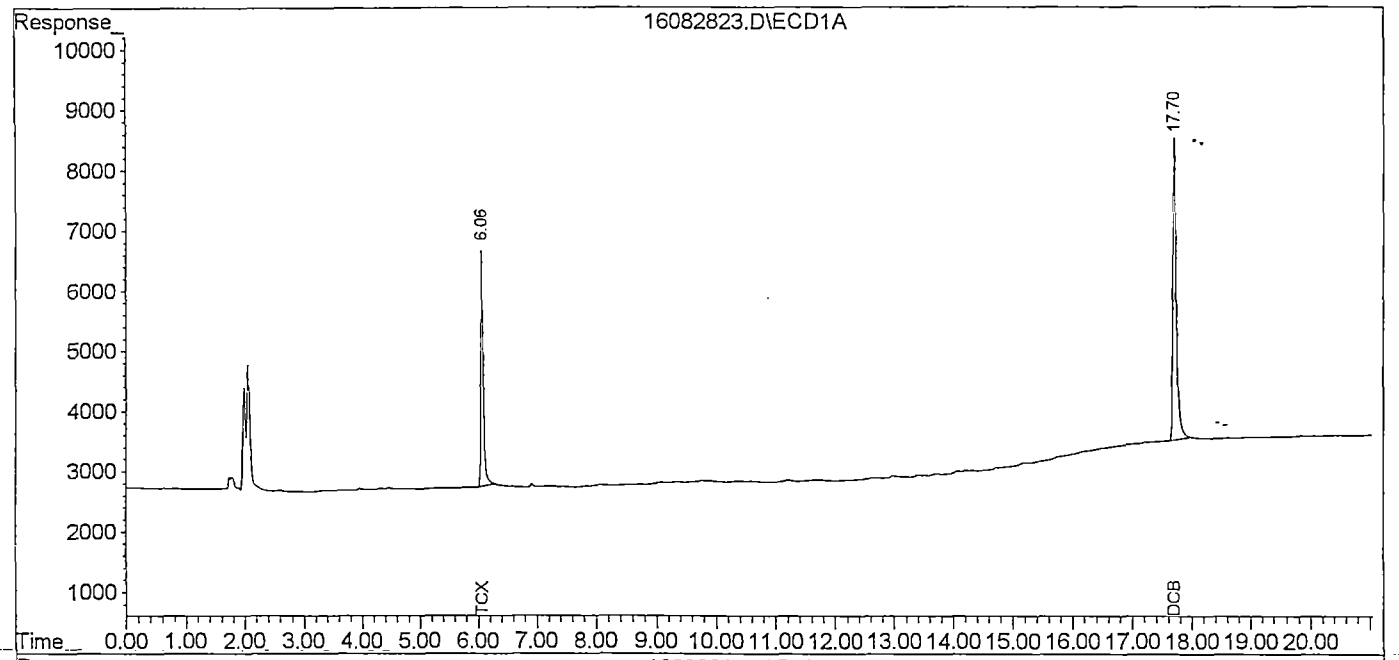
Chromatographic Report

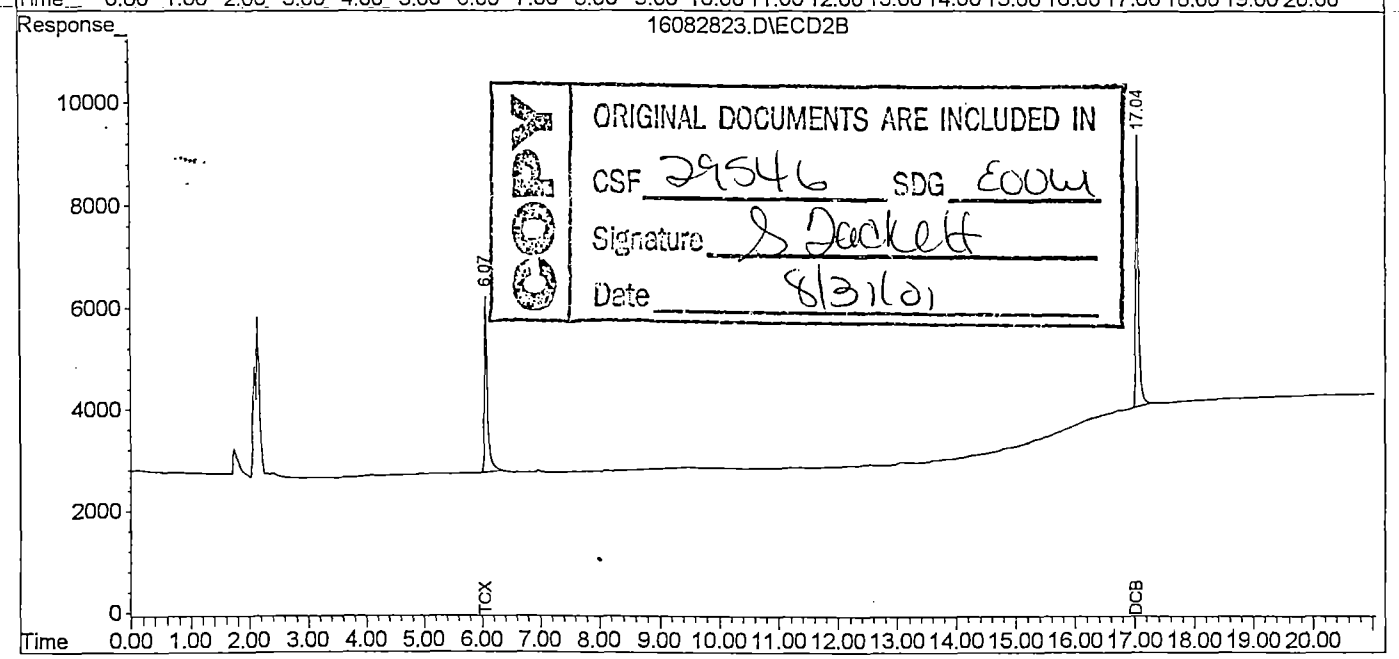
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082823.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082823.D\ECD2B.CH
Acq On : 28 Aug 2001 21:37 Operator: TLM
Sample : PIBLKCF Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:51 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

Op 8-30-01





ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29546 SDG E0OW
Signature S Jackett
Date 8/31/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082823.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082823.D\ECD2B.CH
Acq On : 28 Aug 2001 21:37 Operator: TLM
Sample : PIBLKCF Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:51 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.06	6.07	115176	122918	23.1	22.0
22)	S DCB	17.70	17.05	197458	184514	23.5	23.8

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKCG

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 08/29/01

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.

PIBLKCG

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 08/29/01

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

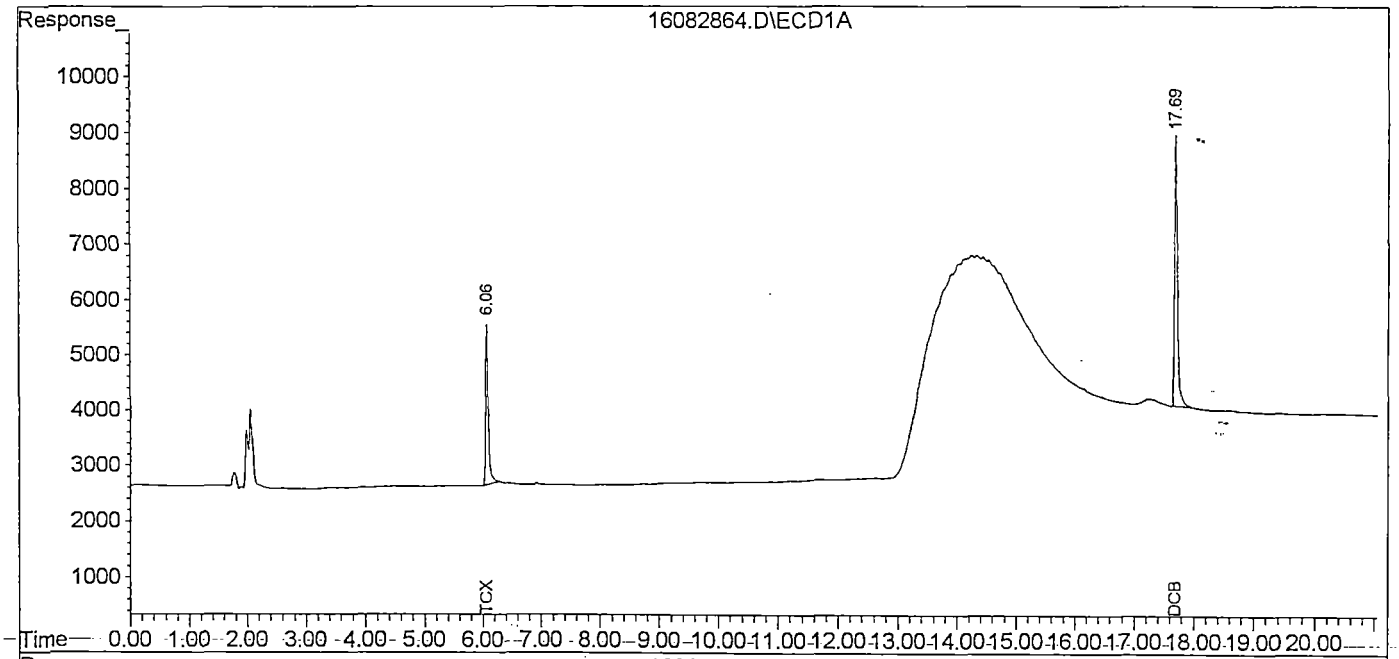
Chromatographic Report

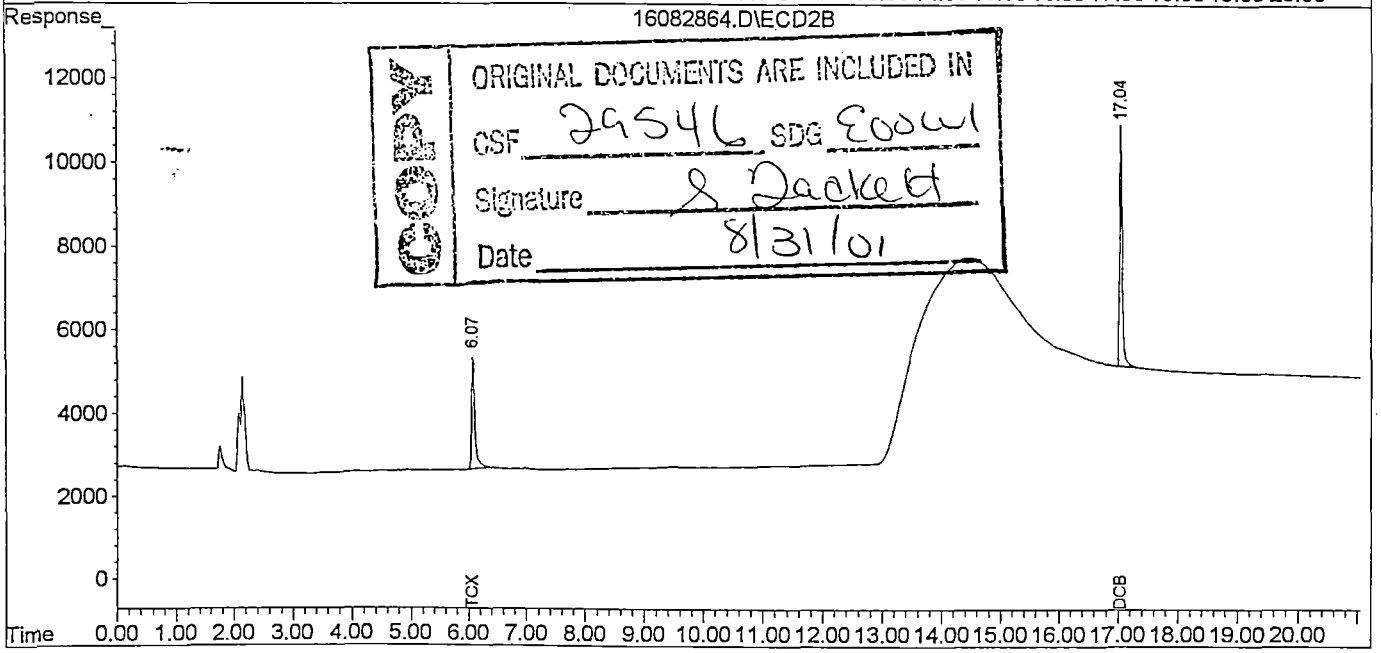
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082864.D\ECD1A.CH Vial: 64
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082864.D\ECD2B.CH
Acq On : 29 Aug 2001 14:25 Operator: TLM
Sample : PIBLKCG Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 16:18 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

op
8-30-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29546 SDG E00w1
Signature S Jackett
Date 8/31/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082864.D\ECD1A.CH Vial: 64
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082864.D\ECD2B.CH
Acq On : 29 Aug 2001 14:25 Operator: TLM
Sample : PIBLKCG Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 16:18 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.07	6.07	91662	103140	18.3	18.4
22)	S DCB	17.70	17.04	165554	184683	19.7	23.8
	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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKCK

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/01/01

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.

PIBLKCK

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/01/01

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

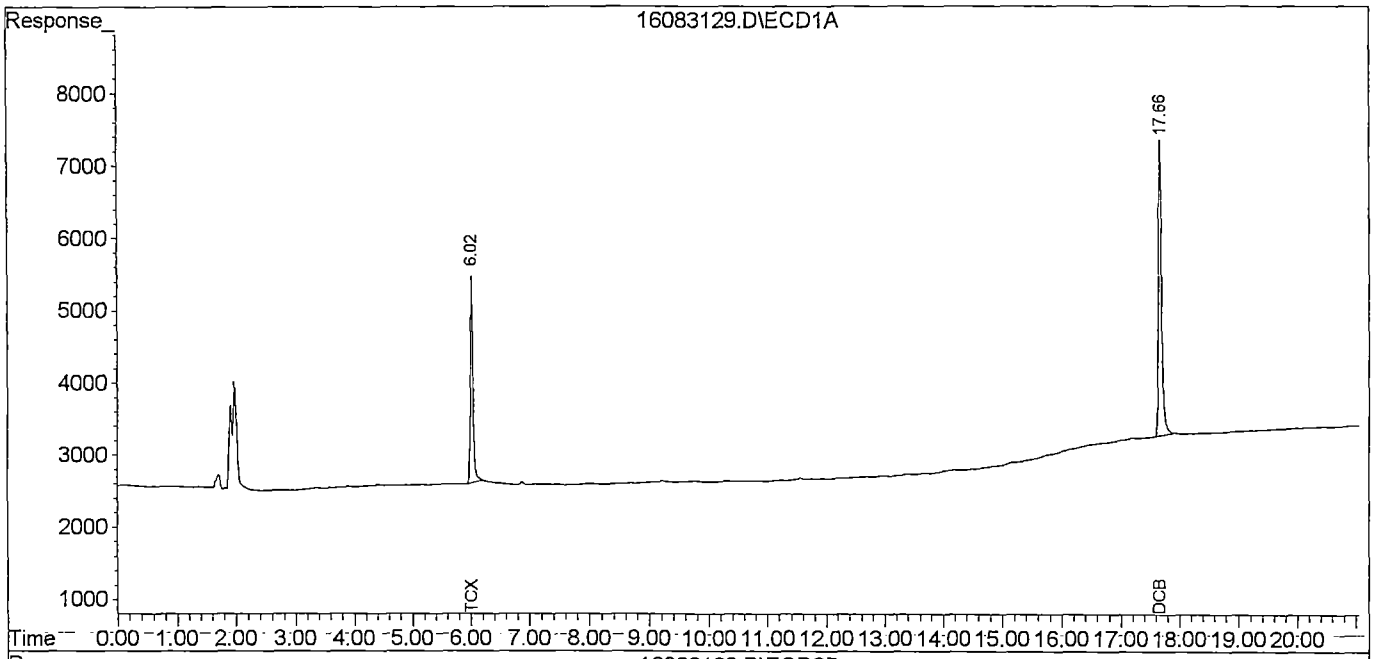
Chromatographic Report

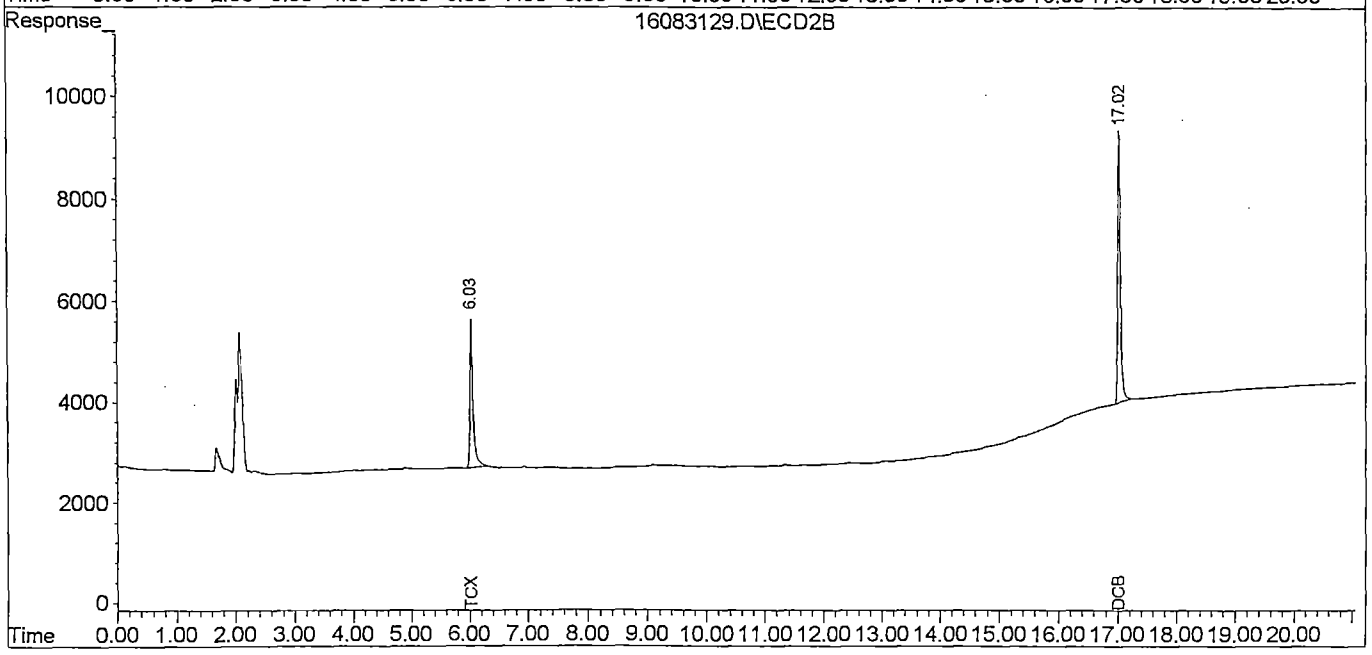
Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083129.D\ECD1A.CH Vial: 29
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083129.D\ECD2B.CH
Acq On : 01 Sep 2001 1:21 Operator: TLM
Sample : PIBLKCK Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:42 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

ok
9-4-01

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083129.D\ECD1A.CH Vial: 29
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083129.D\ECD2B.CH
Acq On : 01 Sep 2001 1:21 Operator: TLM
Sample : PIBLKCK Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:42 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	86144	109903	16.9	18.0
22)	S DCB	17.67	17.02	146422	174417	16.7	19.4

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKCL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/01/01

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.

PIBLKCL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/01/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

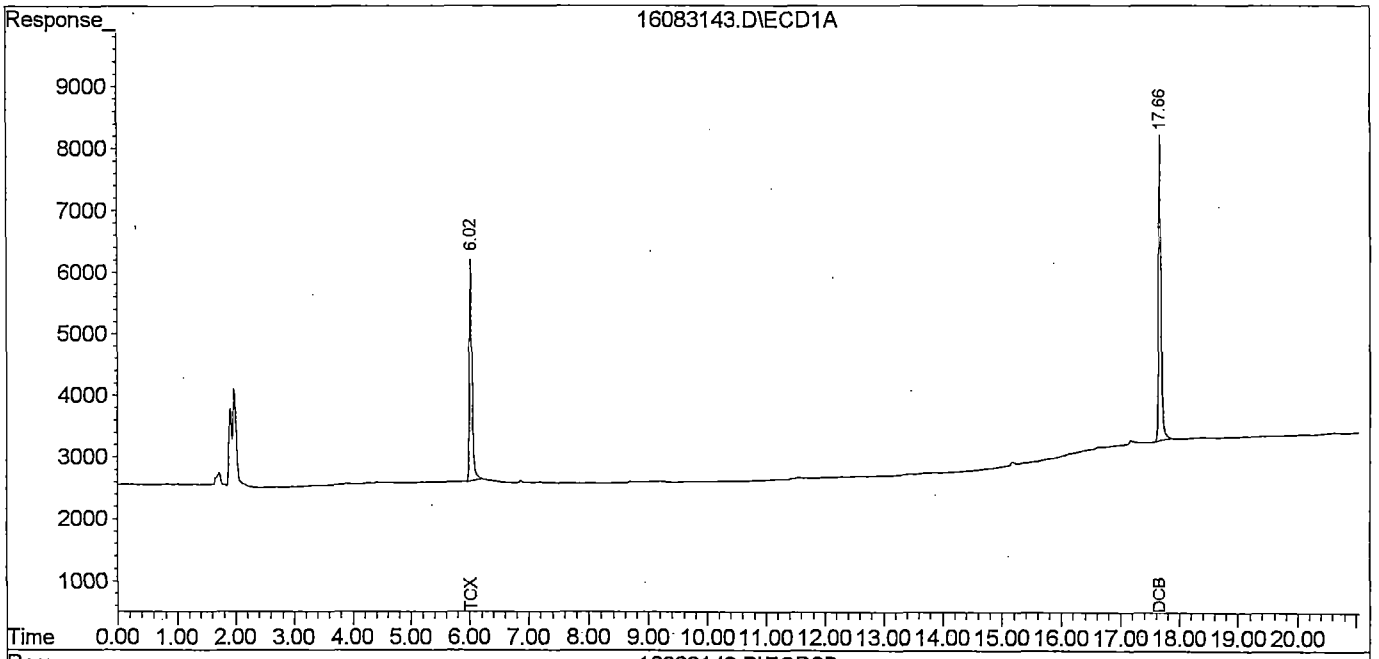
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

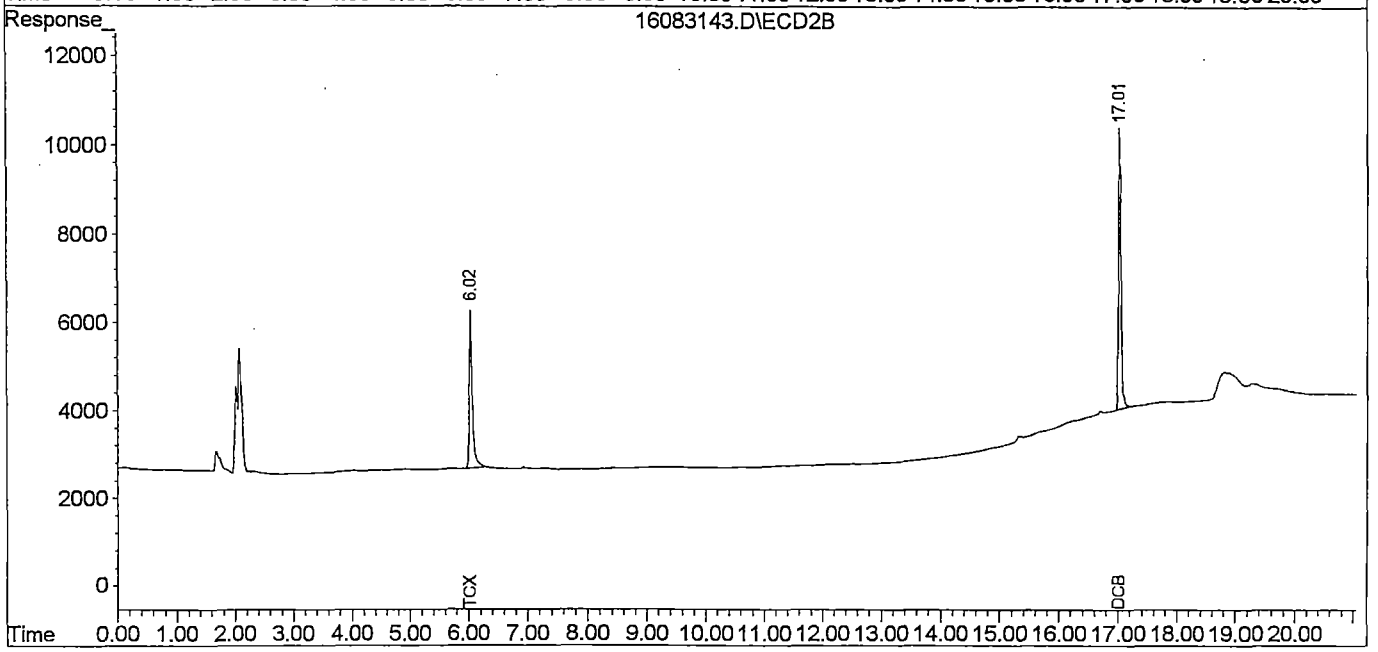
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083143.D\ECD1A.CH Vial: 43
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083143.D\ECD2B.CH
Acq On : 01 Sep 2001 7:06 Operator: TLM
Sample : PIBLKCL Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:36 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083143.D\ECD1A.CH Vial: 43
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083143.D\ECD2B.CH
Acq On : 01 Sep 2001 7:06 Operator: TLM
Sample : PIBLKCL Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 1 10:36 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.02	6.02	103601	127619	20.3	20.9
22)	S DCB	17.66	17.02	155716	193961	17.7	21.6
	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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKCO

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/06/01

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.

PIBLKCO

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/06/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

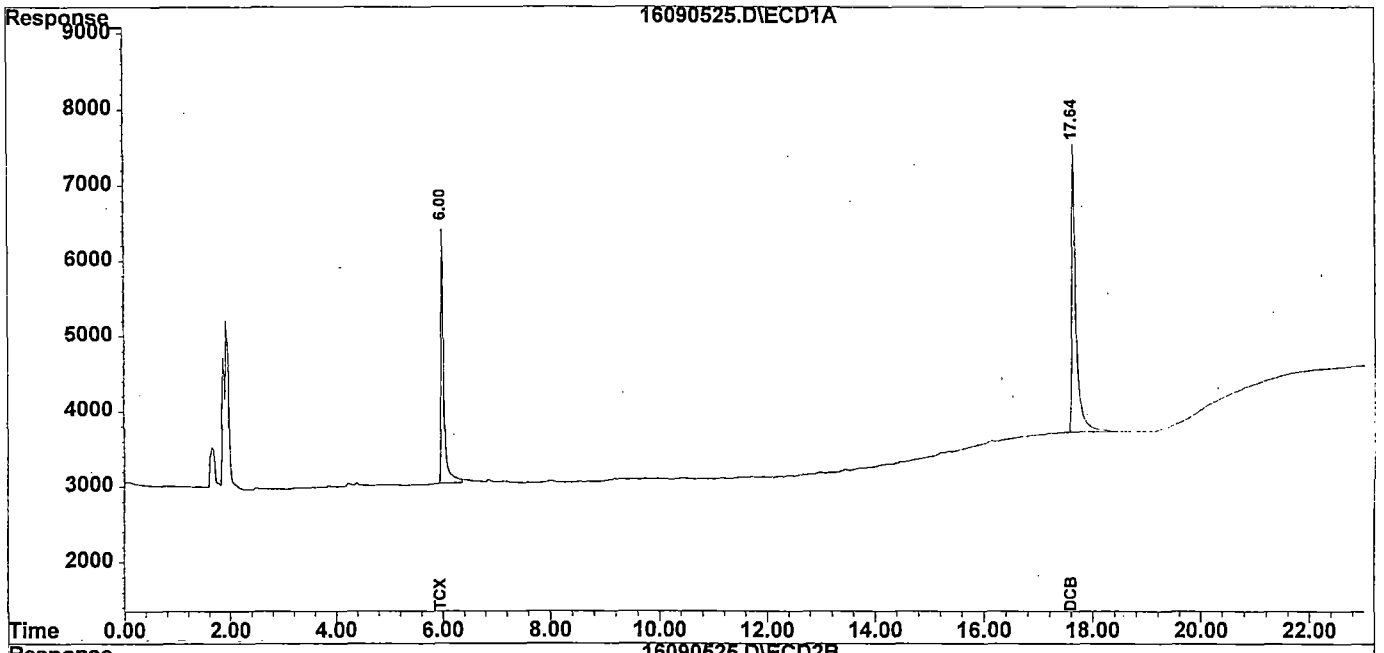
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

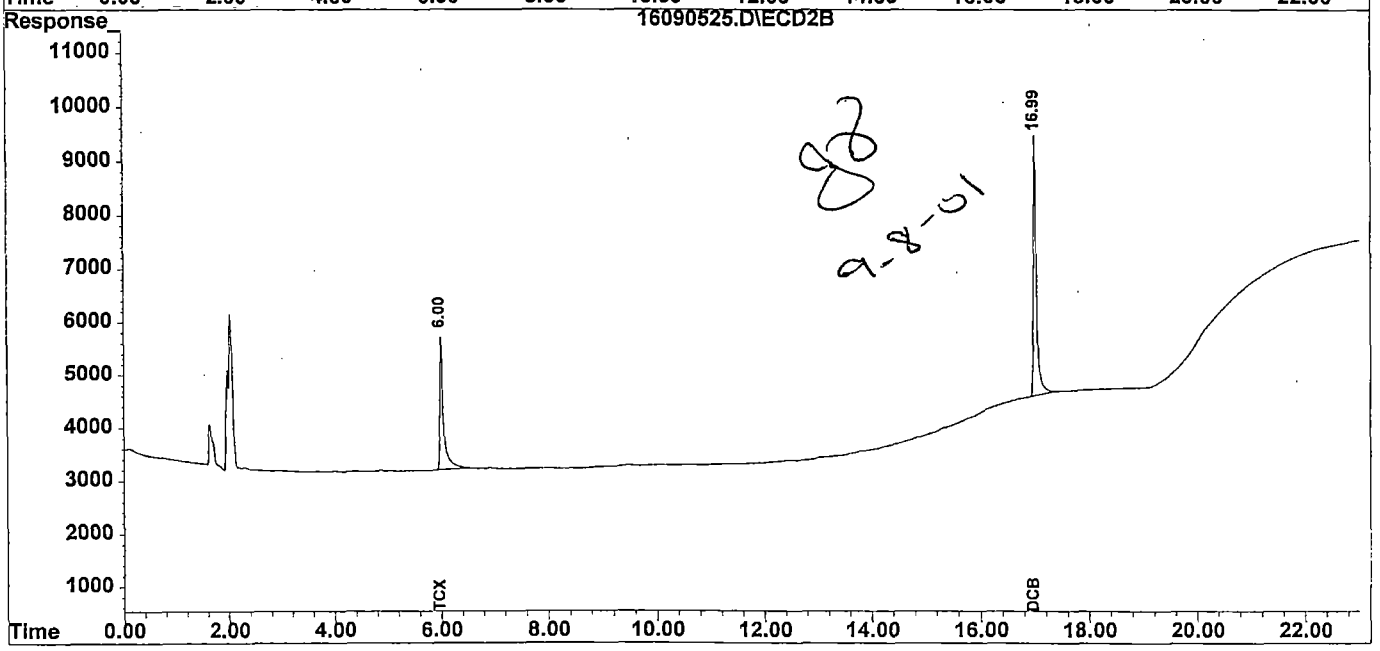
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090525.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090525.D\ECD2B.CH
Acq On : 06 Sep 2001 3:06 Operator: DDC
Sample : PIBLKCO Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:35 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





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9-8-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090525.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090525.D\ECD2B.CH
Acq On : 06 Sep 2001 3:06 Operator: DDC
Sample : PIBLKCO Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:35 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.00	6.00	128319	121229	21.2	19.4
22)	S DCB	17.64	17.00	207860	193842	21.5	21.6

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKCP

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/06/01

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.

PIBLKCP

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/06/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

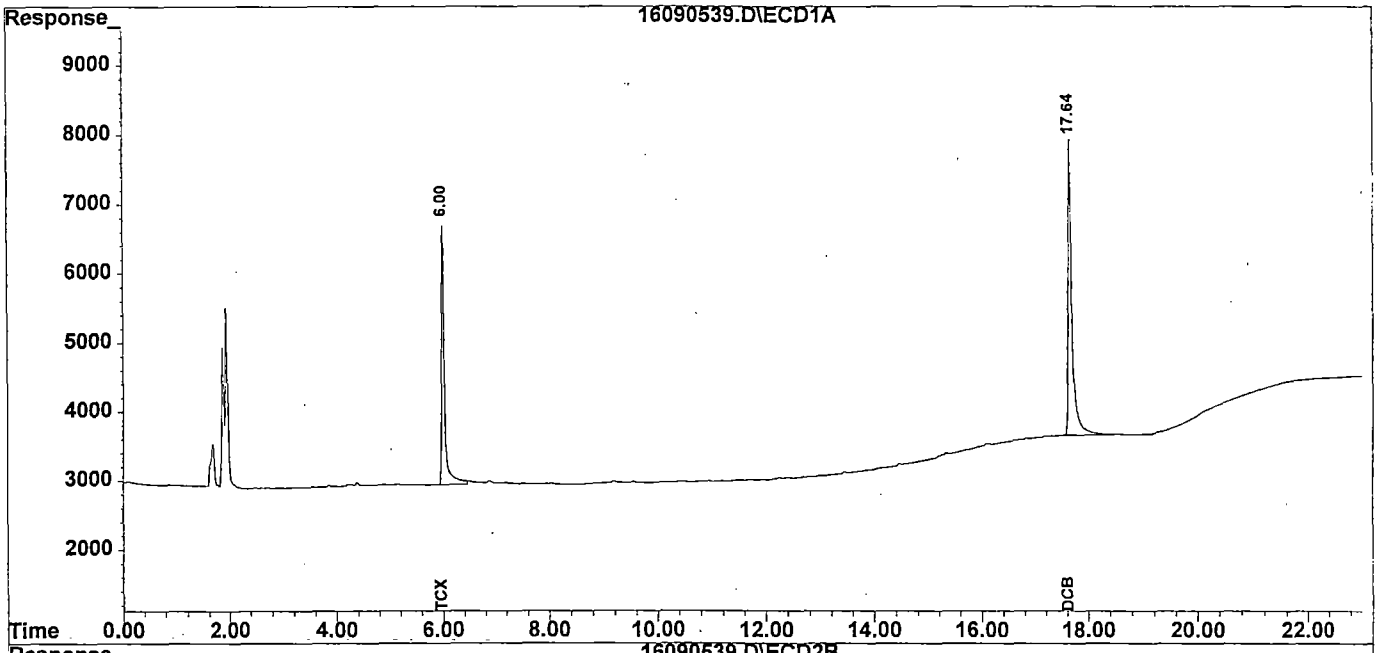
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

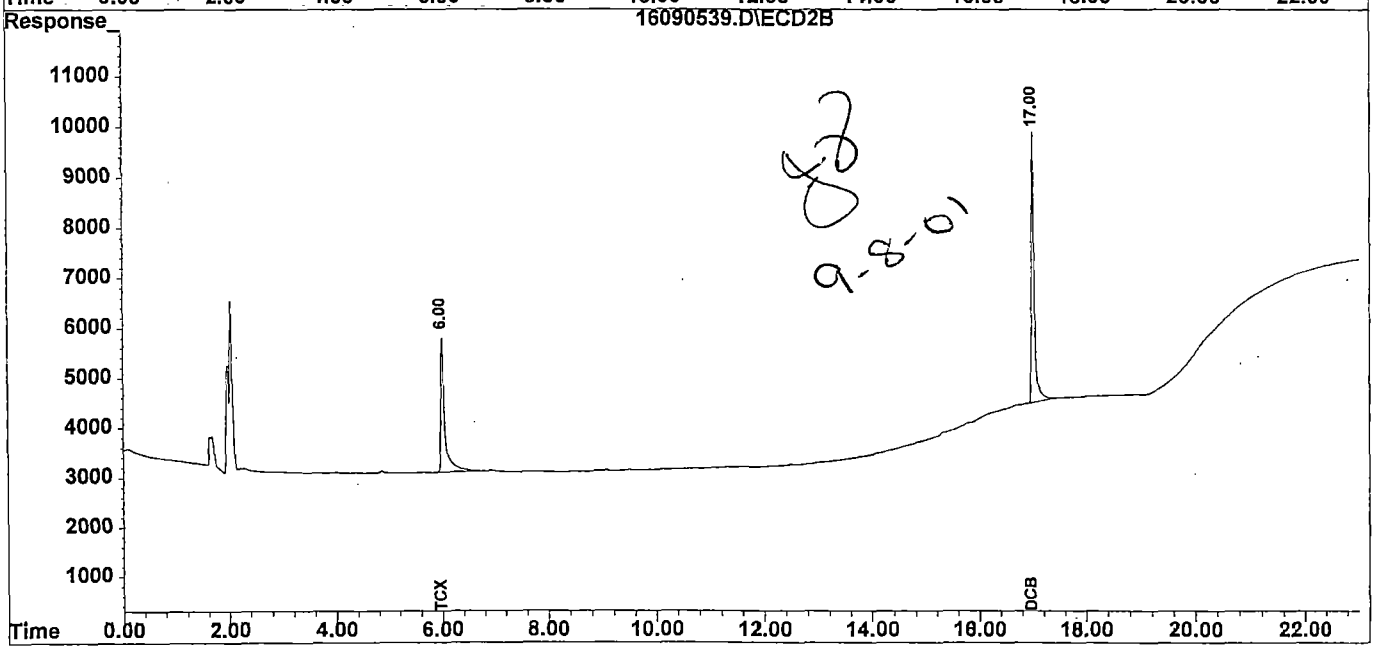
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090539.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090539.D\ECD2B.CH
Acq On : 06 Sep 2001 9:15 Operator: DDC
Sample : PIBLKCP Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:31 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-8-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090539.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090539.D\ECD2B.CH
Acq On : 06 Sep 2001 9:15 Operator: DDC
Sample : PIBLKCP Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 11:31 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.00	6.00	144199	138571	23.8	22.1
22)	S DCB	17.65	17.00	220519	208951	22.8	23.3

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKCQ

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/06/01

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.

PIBLKCQ

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 09/06/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

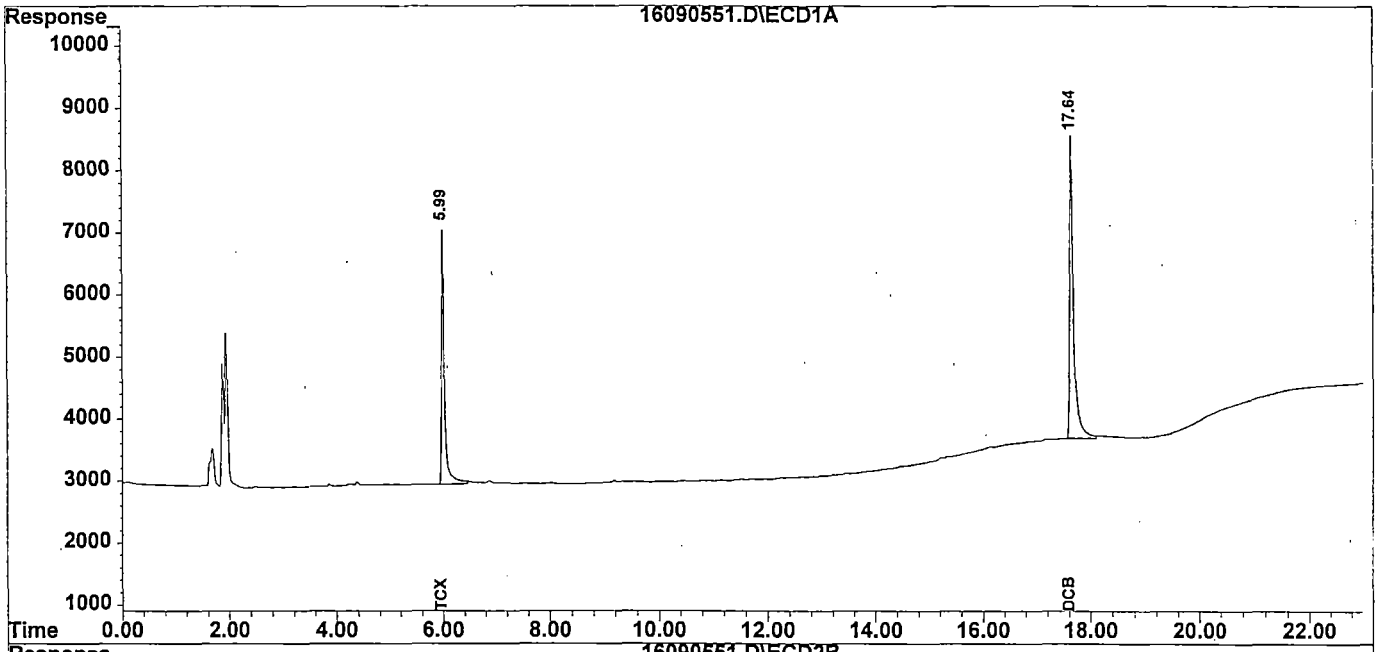
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

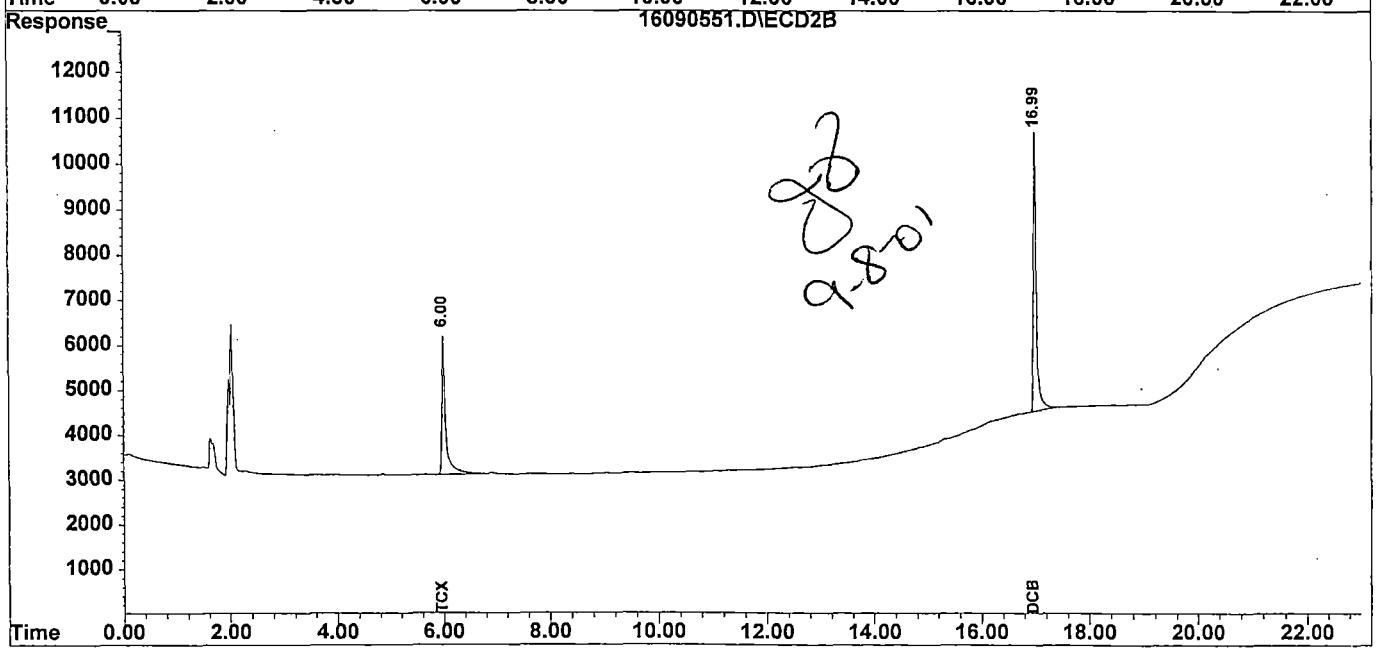
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090551.D\ECD1A.CH Vial: 51
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090551.D\ECD2B.CH
Acq On : 06 Sep 2001 14:32 Operator: DDC
Sample : PIBLKCQ Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 15:24 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Wed Sep 05 14:36:59 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-8-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\09_05_01\16090551.D\ECD1A.CH Vial: 51
Signal #2 : F:\HPCHEM\HP\16\DATA\09_05_01\16090551.D\ECD2B.CH
Acq On : 06 Sep 2001 14:32 Operator: DDC
Sample : PIBLKCQ Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 15:24 2001 Quant Results File: XPCBI05.RES

Method : F:\HPCHEM\HP\16\DATA\09_05_01\XPCBI05.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\09_05_01\
Last Update : Thu Sep 06 16:04:20 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.00	6.00	159092	157122	26.2	25.1
22)	S DCB	17.64	16.99	244969	234888	25.4	26.2
	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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKC1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 08/29/01

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.

PIBLKC1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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: 08/29/01

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

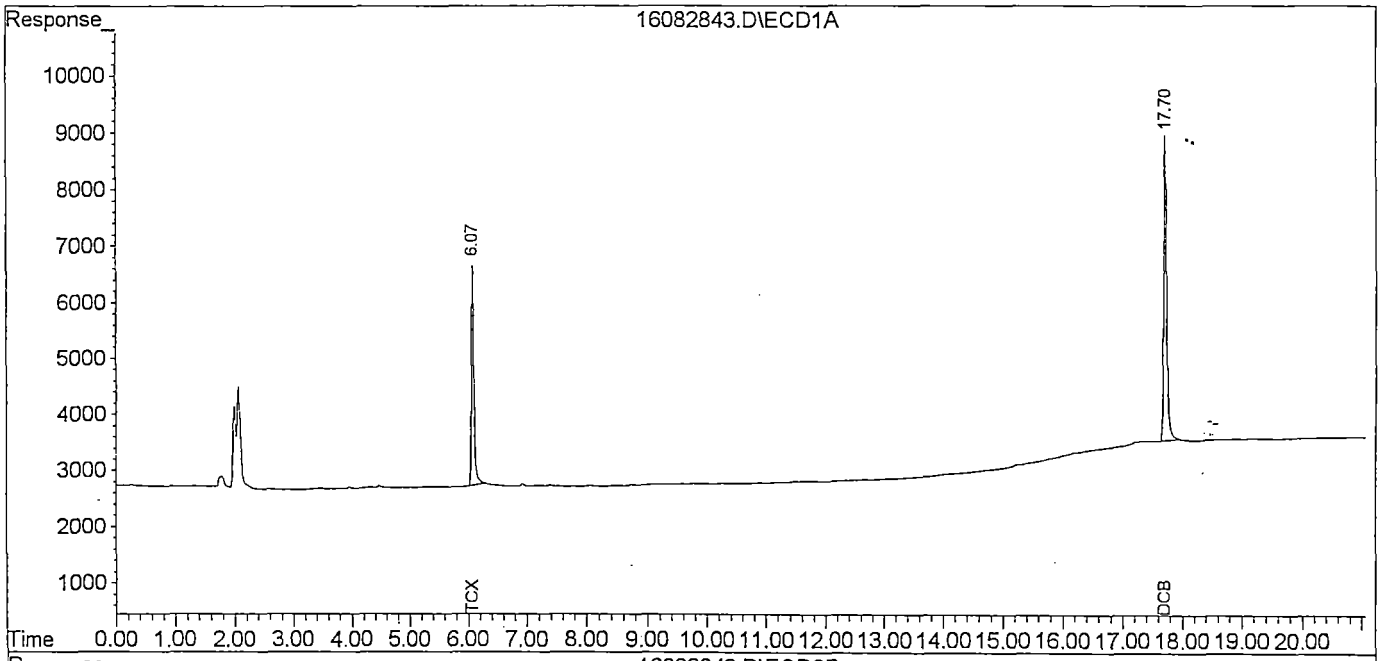
Chromatographic Report

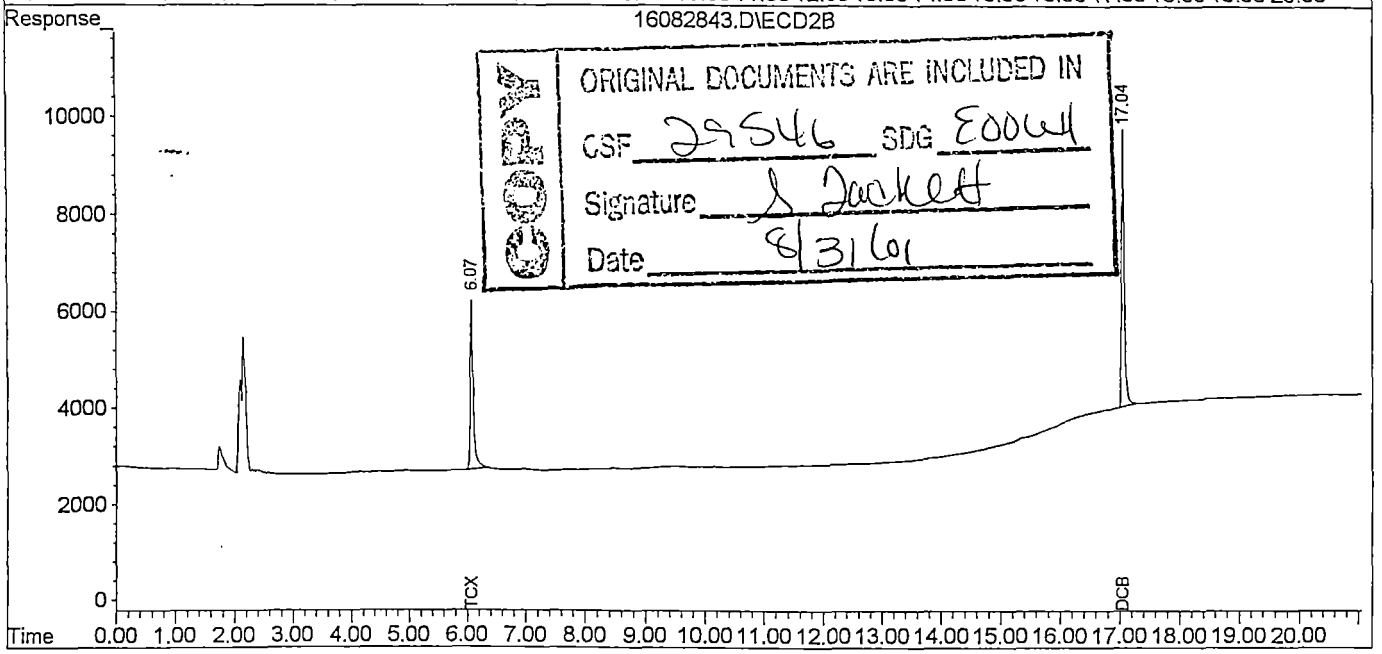
Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082843.D\ECD1A.CH Vial: 43
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082843.D\ECD2B.CH
Acq On : 29 Aug 2001 5:48 Operator: TLM
Sample : PIBLKCF1 SP 9/11/01 Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:50 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

8-30-01





ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29546 SDG E0044
Signature S Jackett
Date 8/31/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_28_01\16082843.D\ECD1A.CH Vial: 43
Signal #2 : F:\HPCHEM\HP\16\DATA\08_28_01\16082843.D\ECD2B.CH
Acq On : 29 Aug 2001 5:48 Operator: TLM
Sample : PIBLKCF 1 5t 9/10/01 Inst : HP_16
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 29 15:50 2001 Quant Results File: XPCBH28.RES

Method : F:\HPCHEM\HP\16\DATA\08_28_01\XPCBH28.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_28_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	6.07	6.08	115779	125500	23.2	22.4
22)	S DCB	17.70	17.05	191783	185070	22.8	23.9
	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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: LC0802SE

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

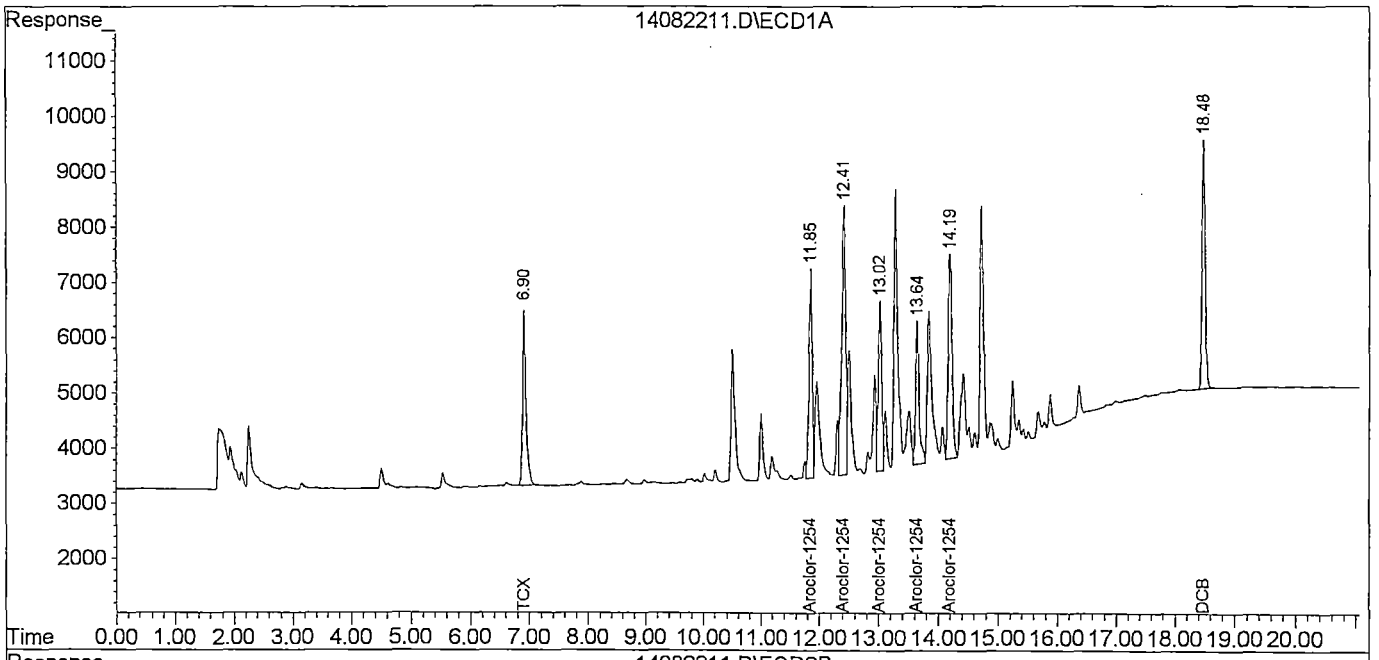
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	120	
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

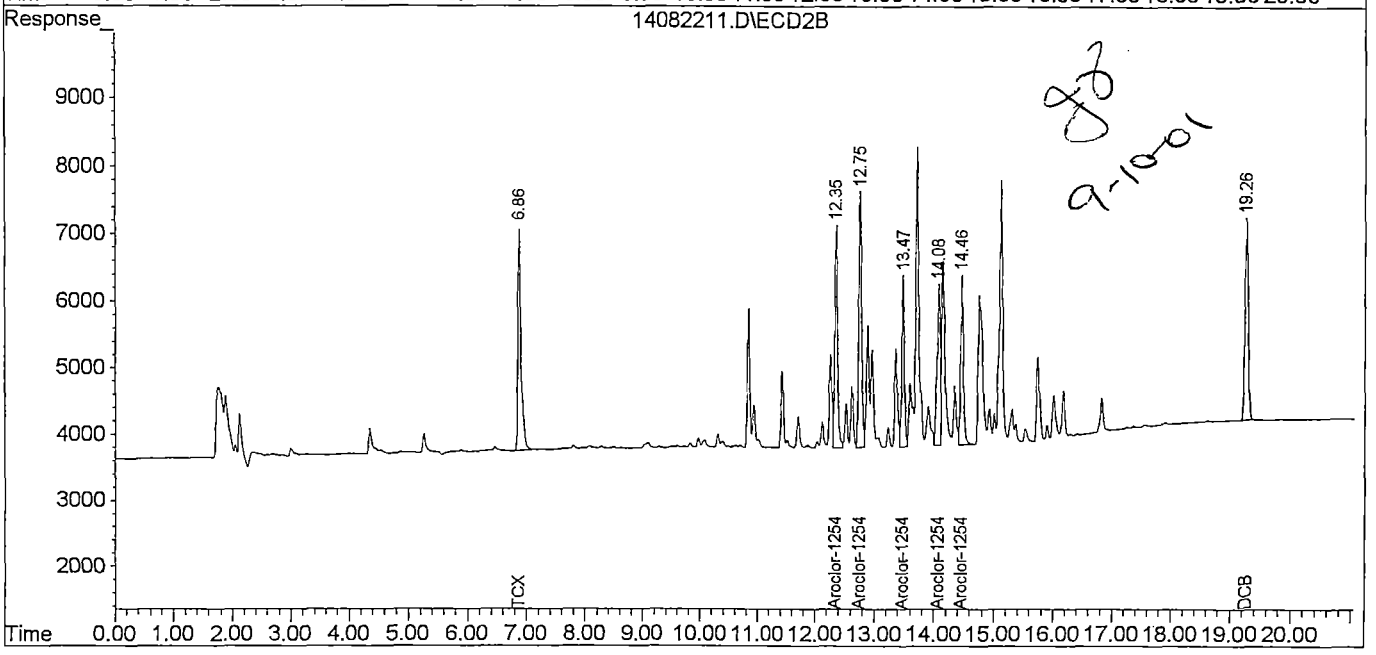
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082211.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082211.D\ECD2B.CH
Acq On : 22 Aug 2001 14:19 Operator: TLM
Sample : LC0802SE *ELCS1 * Inst : HP_14
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 15:05 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





gb
9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082211.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082211.D\ECD2B.CH
Acq On : 22 Aug 2001 14:19 Operator: TLM
Sample : LC0802SE *ELCS1 * Inst : HP_14
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 15:05 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	129796	124084	4.206	4.400
	Spiked Amount 6.667			Recovery	=	63.09%	66.00%
22)	S DCB	18.48	19.26	165106	107393	5.463	5.541
	Spiked Amount 6.667			Recovery	=	81.95%	83.12%
	Target Compounds:						
12)	L6 Aroclor-1254	11.85	12.35	139007	110009	118.5	110.8
13)	L6 Aroclor-1254 {2}	12.42	12.75	229613	122907	129.2	127.6
14)	L6 Aroclor-1254 {3}	13.02	13.48	121102	80546	137.9	124.0
15)	L6 Aroclor-1254 {4}	13.64	14.08	104885	85193	130.1	142.2
16)	L6 Aroclor-1254 {5}	14.19	14.46	168155	81939	133.1	117.3
	Sum Aroclor-1254			762762	480594	648.8	621.9
	Average Aroclor-1254					129.758	124.381

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: LD0802SE

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

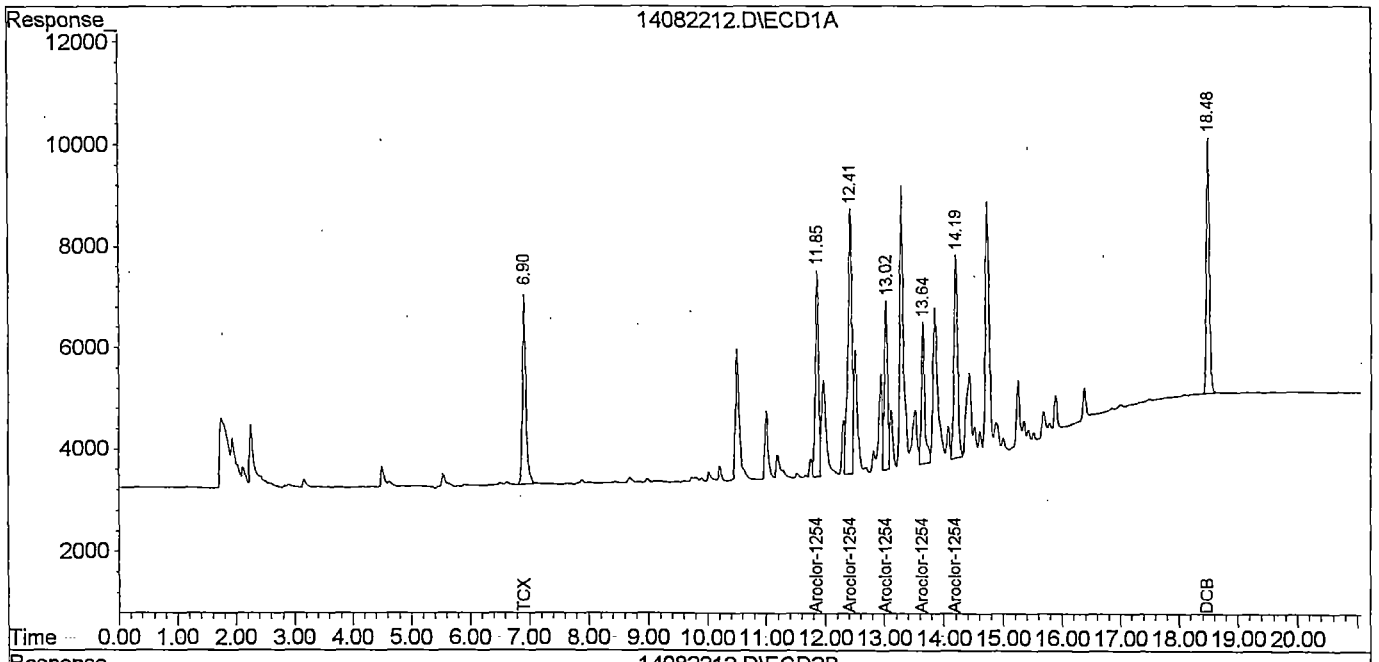
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	130	
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

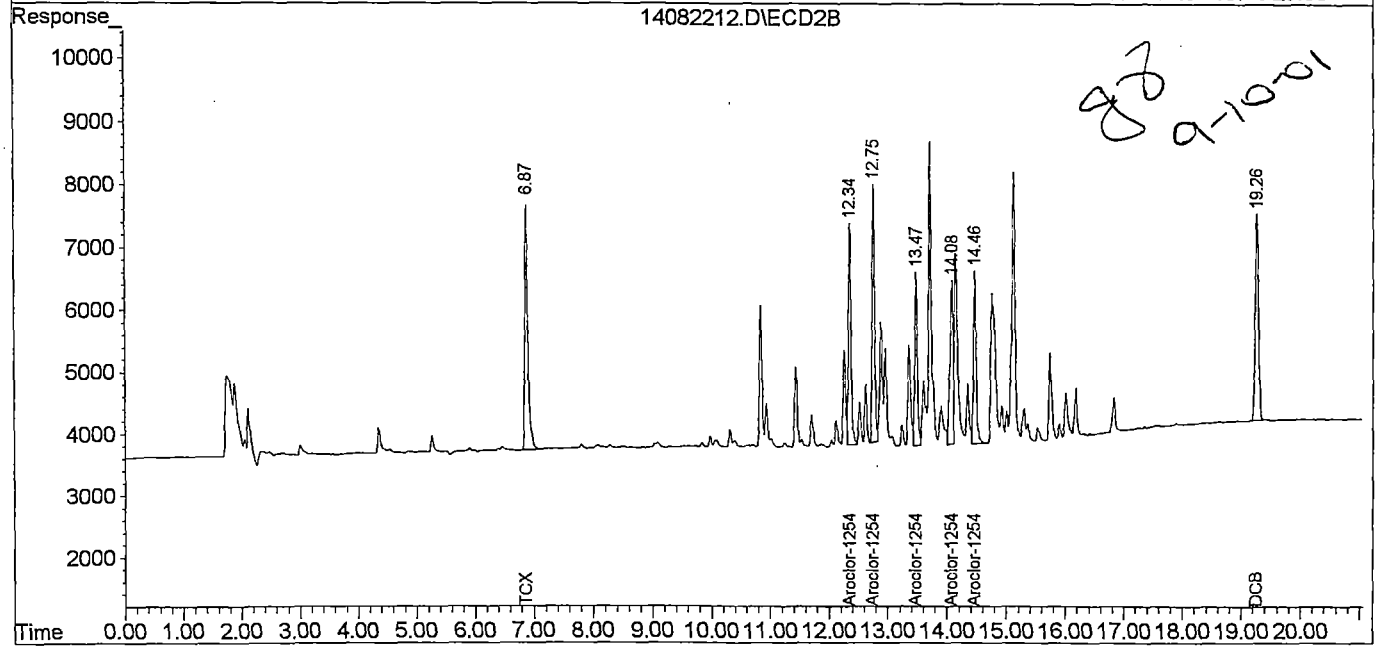
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082212.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082212.D\ECD2B.CH
Acq On : 22 Aug 2001 14:43 Operator: TLM
Sample : LD0802SE *ELCS2 * Inst : HP_14
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 15:05 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082212.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082212.D\ECD2B.CH
Acq On : 22 Aug 2001 14:43 Operator: TLM
Sample : LD0802SE *ELCS2 * Inst : HP_14
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 15:05 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	144640	140116	4.687	4.968
	Spiked Amount 6.667			Recovery	=	70.31%	74.52%
22)	S DCB	18.48	19.26	184099	118958	6.092	6.138
	Spiked Amount 6.667			Recovery	=	91.38%	92.07%
	Target Compounds:						
12)	L6 Aroclor-1254	11.85	12.35	146333	113757	124.8	114.6
13)	L6 Aroclor-1254 {2}	12.41	12.75	243922	125697	137.2	130.5
14)	L6 Aroclor-1254 {3}	13.02	13.48	129421	86219	147.4	132.7
15)	L6 Aroclor-1254 {4}	13.64	14.08	113019	91383	140.1	152.5
16)	L6 Aroclor-1254 {5}	14.19	14.46	181571	88072	143.7	126.1
	Sum Aroclor-1254			814265	505128	693.3	656.4
	Average Aroclor-1254					138.653	131.284

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: LC0827SE

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/27/01

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

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

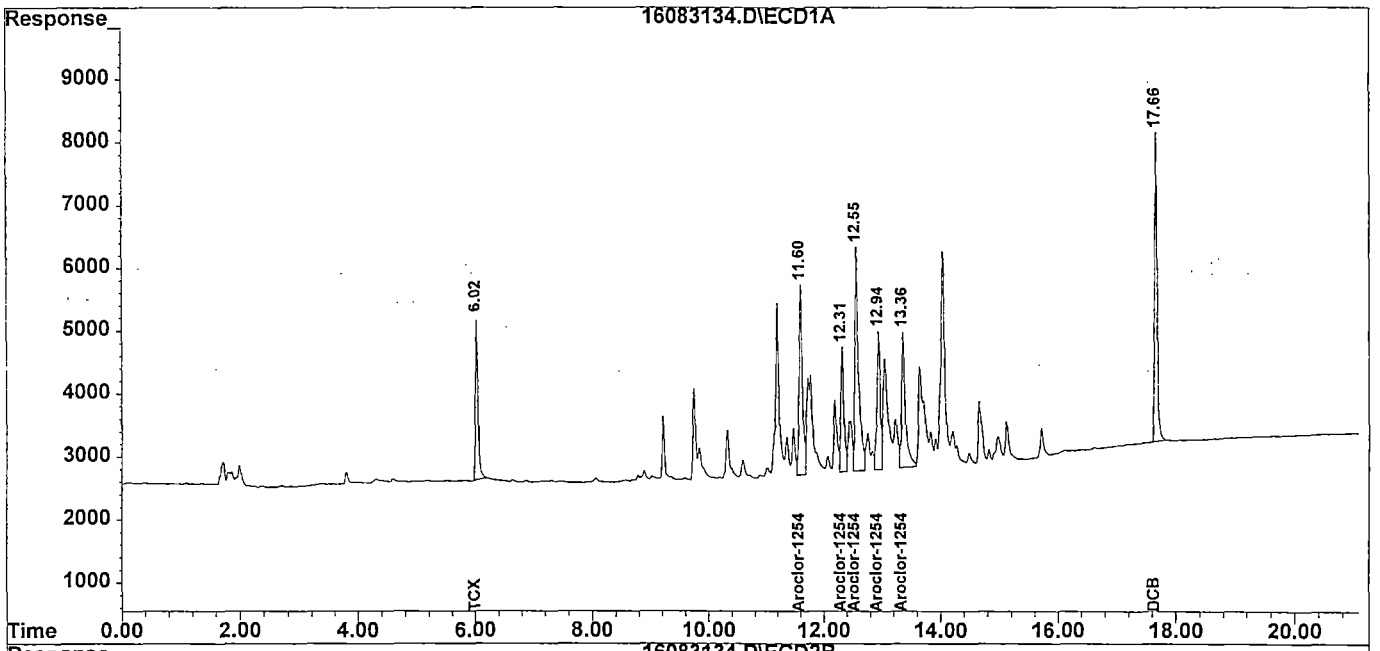
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	130	
11096-82-5	Aroclor-1260	33	U
Surrogate amount spiked		6.67	

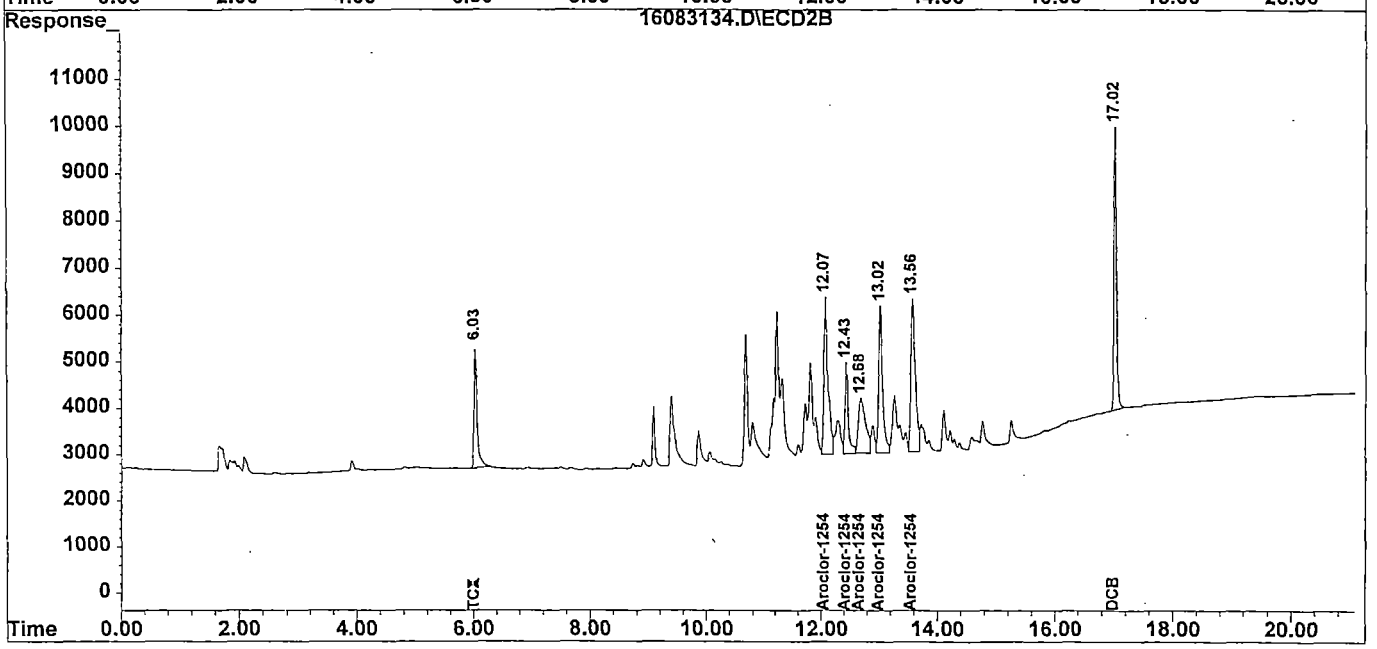
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083134.D\ECD1A.CH Vial: 34
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083134.D\ECD2B.CH
Acq On : 01 Sep 2001 3:24 Operator: TLM
Sample : LC0827SE *ELCS13* Stg 11/01 Inst : HP_16
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 12:26 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083134.D\ECD1A.CH Vial: 34
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083134.D\ECD2B.CH
Acq On : 01 Sep 2001 3:24 Operator: TLM
Sample : LC0827SE *ELCS~~1~~3* 5/9/11/01 Inst : HP_16
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 12:26 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	76410	94645	4.998	5.161
	Spiked Amount 6.667			Recovery	=	74.97%	77.42%
22)	S DCB	17.66	17.02	147066	180578	5.582	6.702
	Spiked Amount 6.667			Recovery	=	83.73%	100.53%
	Target Compounds:						
12)	L6 Aroclor-1254	11.60	12.07	116524	165653	134.3	130.4
13)	L6 Aroclor-1254 {2}	12.31	12.43	74818	79436	128.1	143.0
14)	L6 Aroclor-1254 {3}	12.56	12.68	159165	103566	127.3	145.9
15)	L6 Aroclor-1254 {4}	12.94	13.02	86058	146041	136.3	145.8
16)	L6 Aroclor-1254 {5}	13.36	13.57	99866	167702	148.1	144.3
	Sum Aroclor-1254			536431	662397	674.0	709.4
	Average Aroclor-1254					134.800	141.877

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: LD0827SE

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/27/01

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

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

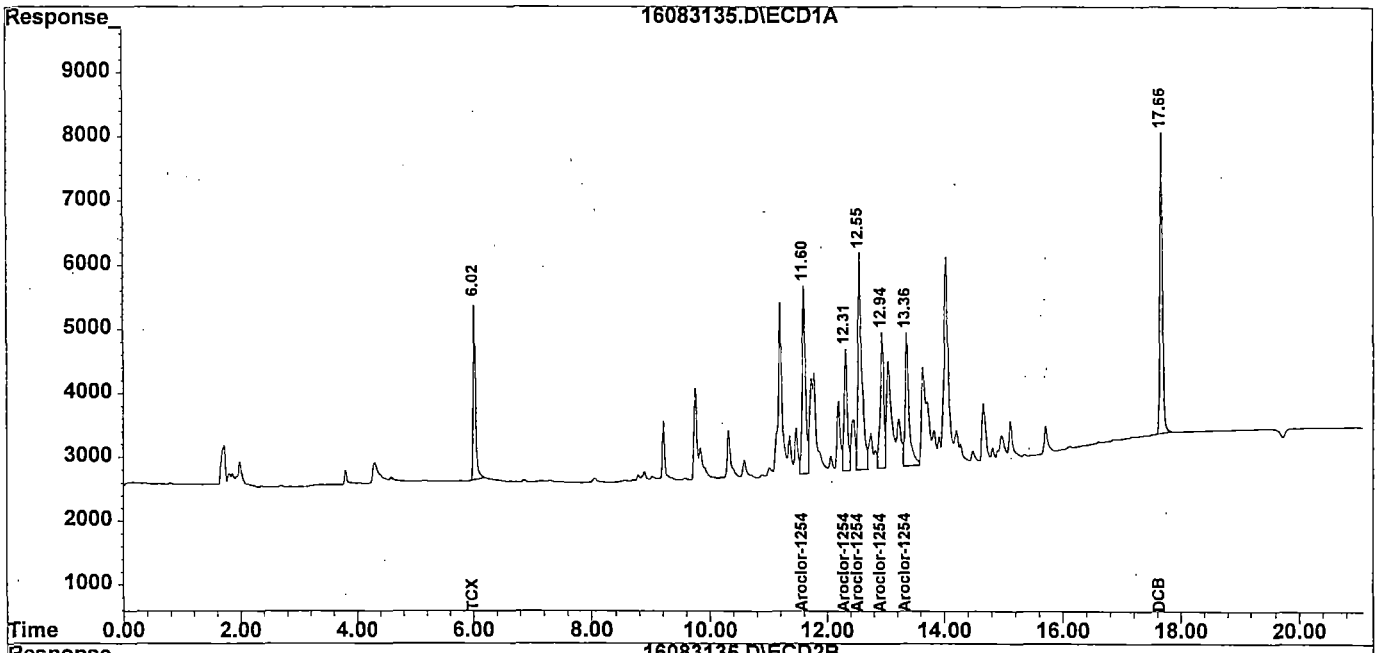
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	130	
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

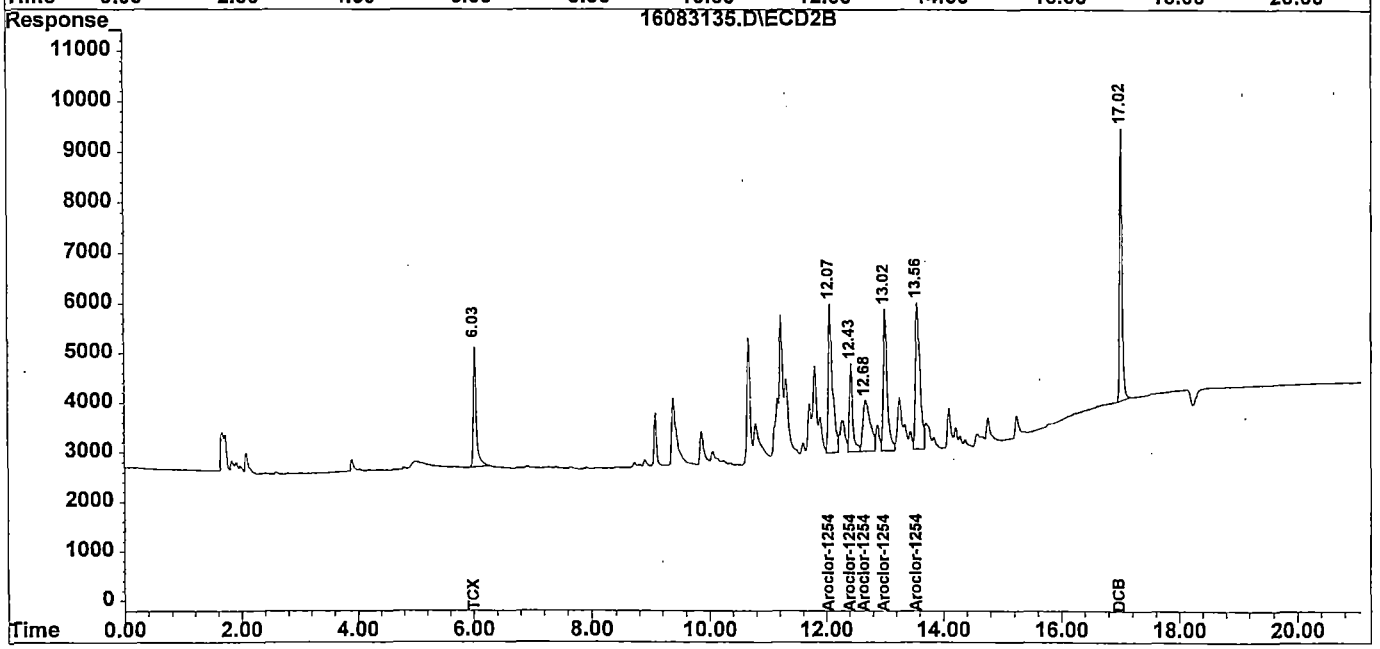
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083135.D\ECD1A.CH Vial: 35
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083135.D\ECD2B.CH
Acq On : 01 Sep 2001 3:49 Operator: TLM
Sample : LD0827SE *ELCS24(* Standard Inst : HP_16
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 12:26 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083135.D\ECD1A.CH Vial: 35
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083135.D\ECD2B.CH
Acq On : 01 Sep 2001 3:49 Operator: TLM
Sample : LD0827SE *ELCS24* 3/9/11 oc Inst : HP_16
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 12:26 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	6.02	6.03	79252	88620	5.184	4.833
	Spiked Amount 6.667			Recovery	=	77.76%	72.50%
22)	S DCB	17.66	17.02	140494	162213	5.333	6.021
	Spiked Amount 6.667			Recovery	=	80.00%	90.32%
	Target Compounds:						
12)	L6 Aroclor-1254	11.60	12.07	114403	148187	131.8	116.6
13)	L6 Aroclor-1254 {2}	12.31	12.43	73351	70881	125.5	127.6
14)	L6 Aroclor-1254 {3}	12.56	12.68	155407	89791	124.3	126.5
15)	L6 Aroclor-1254 {4}	12.94	13.02	83972	130998	133.0	130.8
16)	L6 Aroclor-1254 {5}	13.36	13.57	98048	151103	145.4	130.0
	Sum Aroclor-1254			525182	590959	660.0	631.5
	Average Aroclor-1254					132.008	126.305

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Z1MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.12MS

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

% Moisture: 32 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

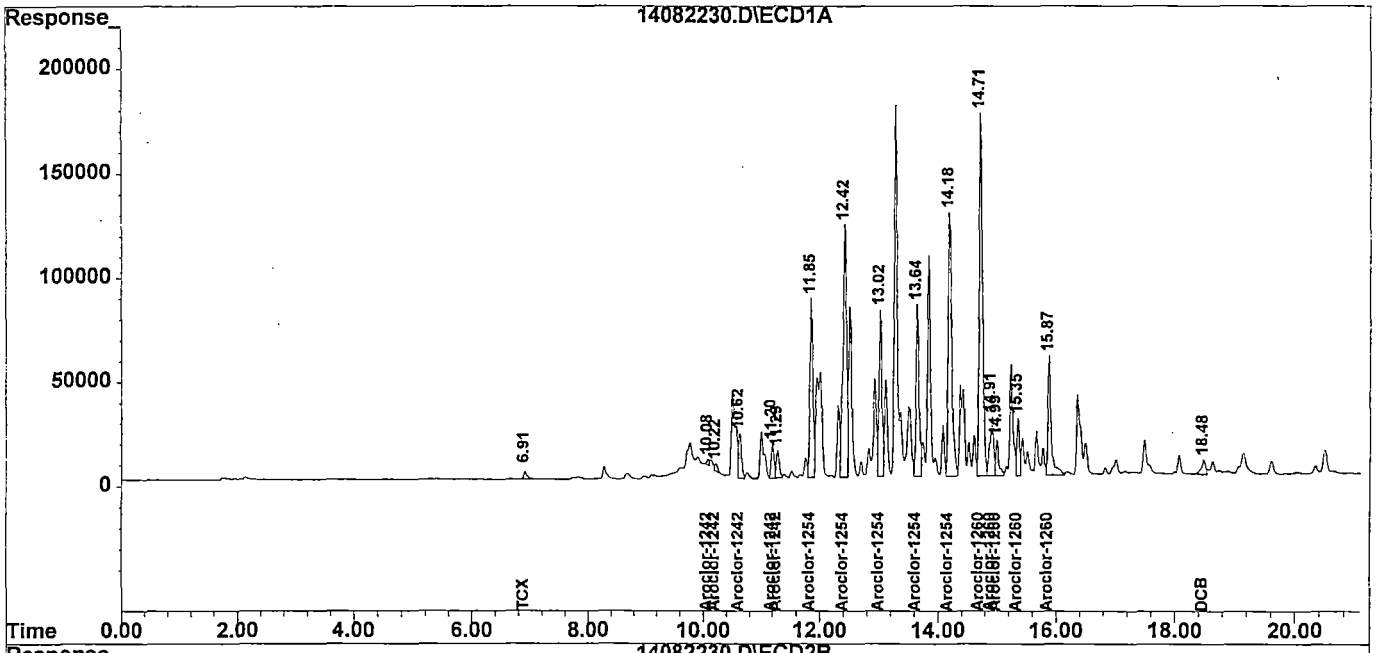
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	48	U
11104-28-2	Aroclor-1221	48	U
11141-16-5	Aroclor-1232	48	U
53469-21-9	Aroclor-1242	1400	EP
12672-29-6	Aroclor-1248	48	U
11097-69-1	Aroclor-1254	4400	E
11096-82-5	Aroclor-1260	1800	E
	Surrogate amount spiked	9.74	

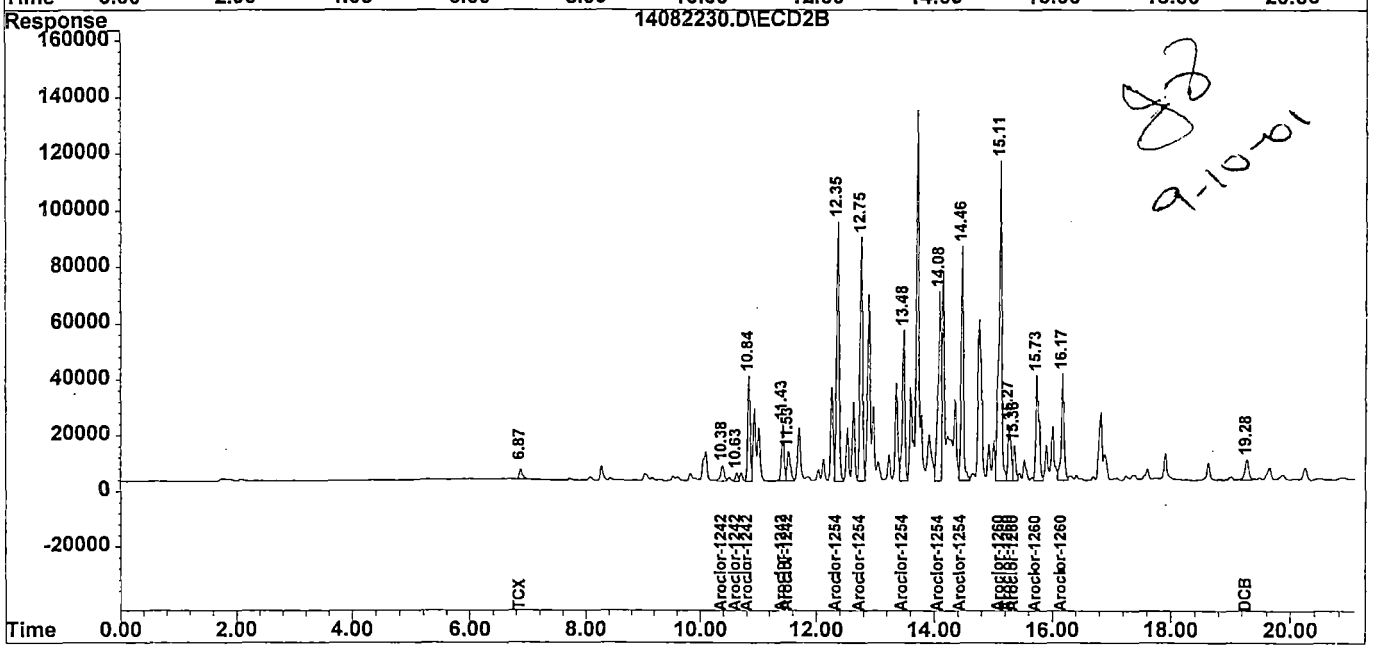
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082230.D\ECD1A.CH Vial: 30
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082230.D\ECD2B.CH
Acq On : 22 Aug 2001 21:59 Operator: TLM
Sample : 47166.12MS *E00Z1MS * Inst : HP_14
Misc : *EPA*30.2G/5.0ML*32 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 17:36 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082230.D\ECD1A.CH Vial: 30
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082230.D\ECD2B.CH
Acq On : 22 Aug 2001 21:59 Operator: TLM
Sample : 47166.12MS *E00Z1MS * Inst : HP_14
Misc : *EPA*30.2G/5.0ML*32 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 6 17:36 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

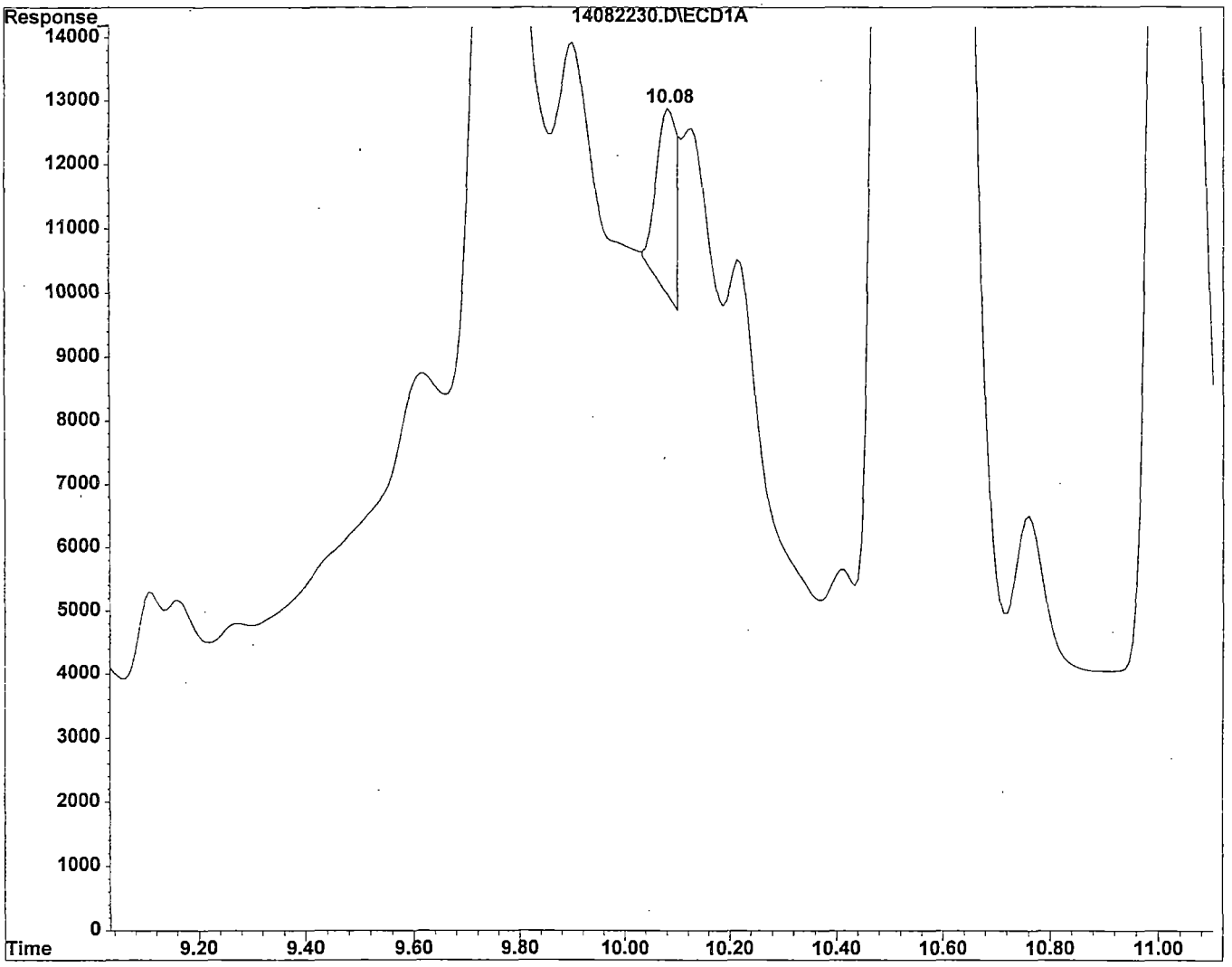
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	6.91	6.87	132754	128072	6.284	6.634
	Spiked Amount 9.739			Recovery	=	64.52%	68.12%
22)	S DCB	18.48	19.28	342239	304546	16.5m	23.0m #
	Spiked Amount 9.739			Recovery	=	169.42%	236.16%
	Target Compounds:						
7)	L4 Aroclor-1242	10.08	10.39	77080	241376	144.6m	597.9 #
8)	L4 Aroclor-1242 {2}	10.21	10.63	110724	94056	379.1m	454.4
9)	L4 Aroclor-1242 {3}	10.63	10.84	800547	1133448	2422.5 E	4149.1 E#
10)	L4 Aroclor-1242 {4}	11.20	11.44	567085	615901	2440.5 E	1973.8 E
11)	L4 Aroclor-1242 {5}	11.29	11.53	489818	415250	1650.8 E	2233.7 E#
	Sum Aroclor-1242			2045253	2500030	7037.6	9408.9
	Average Aroclor-1242					1407.510	1881.790
12)	L6 Aroclor-1254	11.85	12.36	2965579	2819600	3693.3 E	4150.1 E
13)	L6 Aroclor-1254 {2}	12.42	12.76	5238038	2551946	4305.1 E	3871.4 E
14)	L6 Aroclor-1254 {3}	13.02	13.48	2802650	1589348	4662.8 E	3573.4 E
15)	L6 Aroclor-1254 {4}	13.64	14.08	2873963	2182065	5206.1 E	5319.8 E
16)	L6 Aroclor-1254 {5}	14.18	14.46	5676478	2318665	6564.9 E	4848.5 E#
	Sum Aroclor-1254			19556708	11461624	24432.1	21763.2
	Average Aroclor-1254					4886.428	4352.646
17)	L7 Aroclor-1260	14.71	15.12	6817956	3966817	5009.4 E	3535.0 E#
18)	L7 Aroclor-1260 {2}	14.91	15.27	1251467	753499	1558.4 E	1187.9 E
19)	L7 Aroclor-1260 {3}	15.00	15.36	628603	348929	948.8 E	805.8 E
20)	L7 Aroclor-1260 {4}	15.35	15.74f	867071	1425128	1466.4 E	2269.7 E#
21)	L7 Aroclor-1260 {5}	15.88	16.18	2127467	1243520	1158.5 E	1048.6 E
	Sum Aroclor-1260			11692564	7737893	4938.4	4308.0
	Average Aroclor-1260					2028.307	1769.387

3m 9-7-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082230.D
Date Acquired: 22 Aug 2001 21:59
Inst: HP_14 Operator ID: TLM
Name: 47166.12MS *E00Z1MS *
Misc: *EPA*30.2G/5.0ML*32
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:36 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 10.08min area: 77080 m

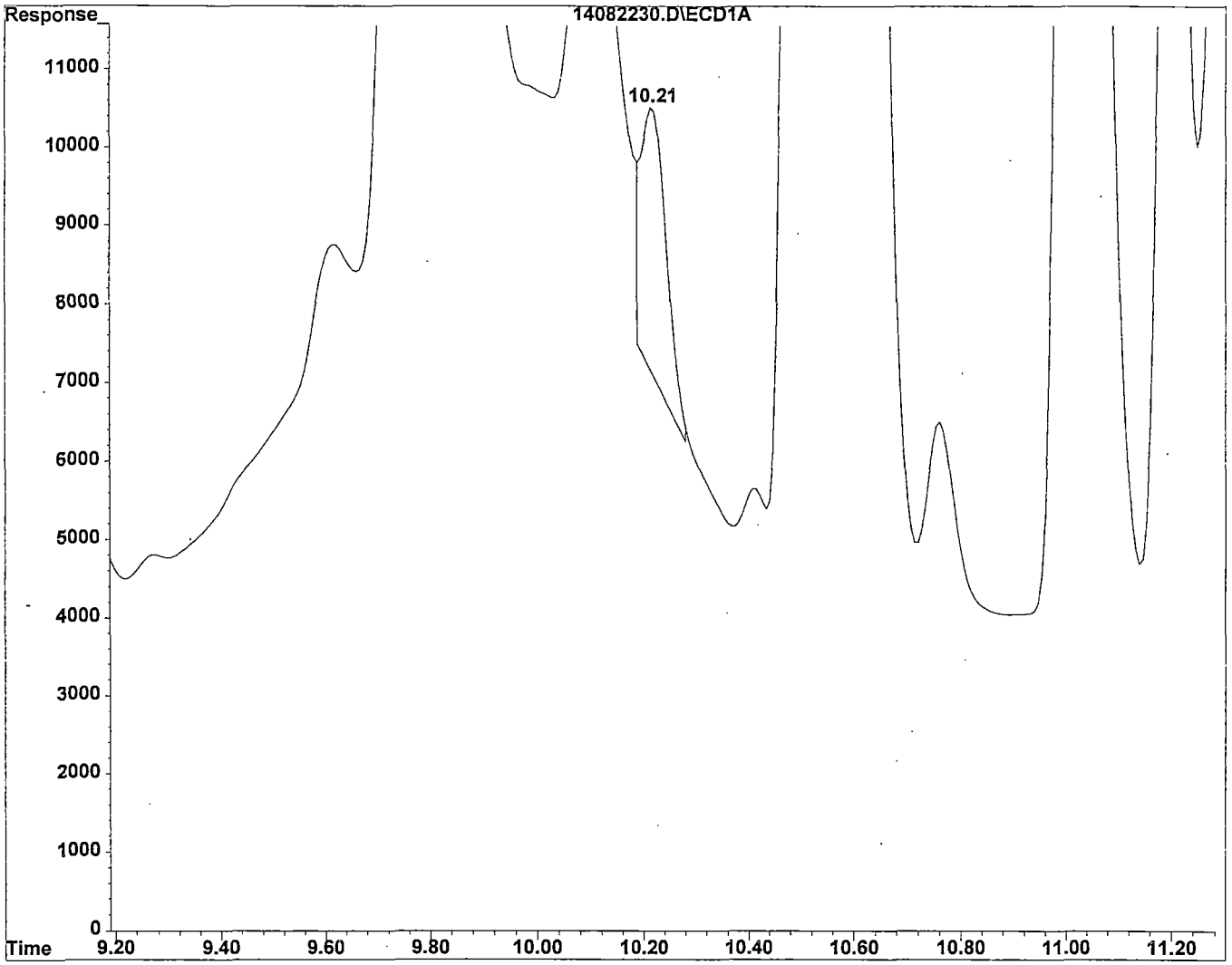
Integration Time Range: 10.03 - 10.10

JAM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082230.D
Report generated: Fri Sep 07 09:35:27 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082230.D
Date Acquired: 22 Aug 2001 21:59
Inst: HP_14 Operator ID: TLM
Name: 47166.12MS *E00Z1MS *
Misc: *EPA*30.2G/5.0ML*32
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:36 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {2} 10.21min area: 110724 m

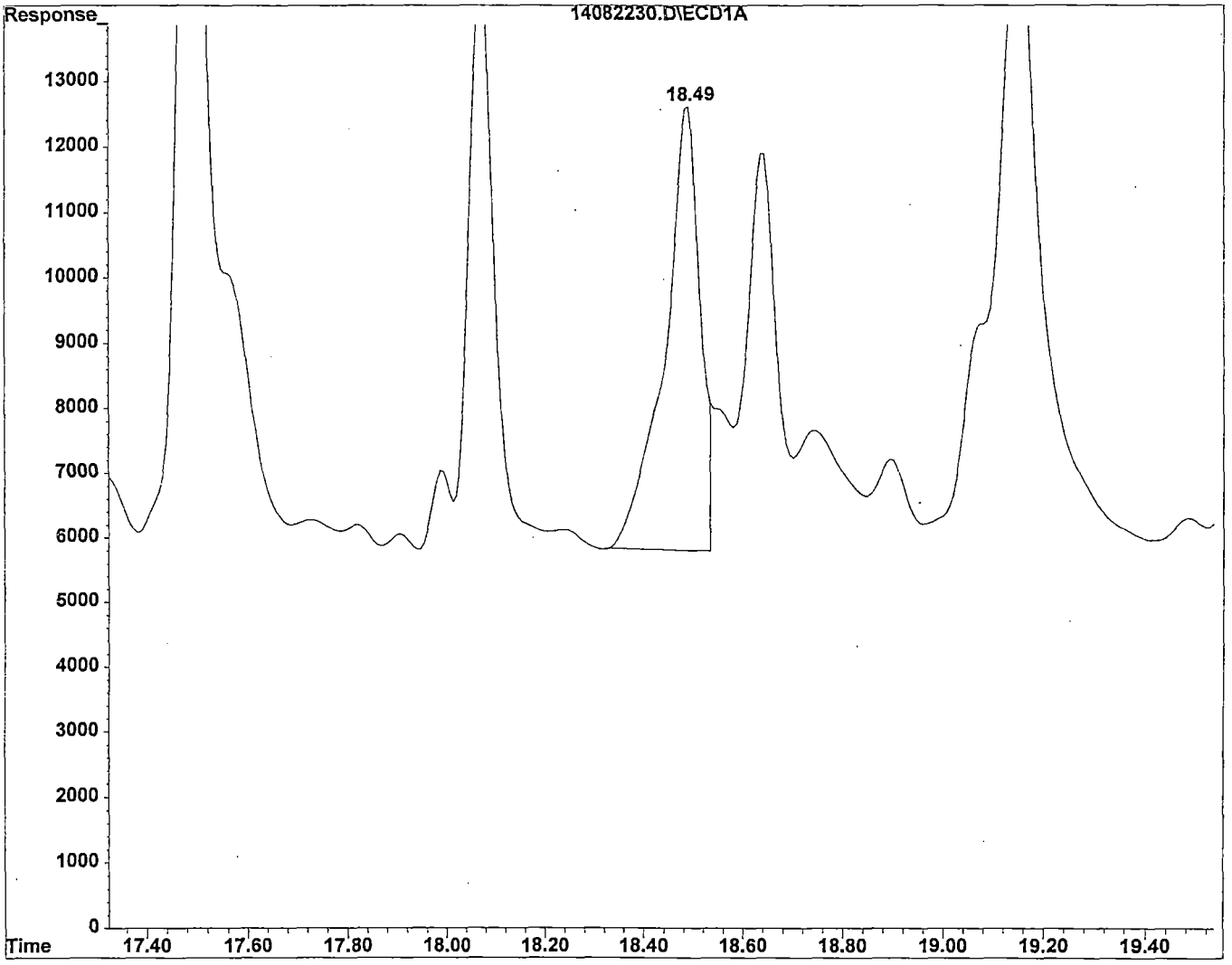
Integration Time Range: 10.19 - 10.28

9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082230.D
Report generated: Fri Sep 07 09:35:28 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082230.D
Date Acquired: 22 Aug 2001 21:59
Inst: HP_14 Operator ID: TLM
Name: 47166.12MS *E00Z1MS *
Misc: *EPA*30.2G/5.0ML*32
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:36 2001 Quant Results File: XPCBH20.RES



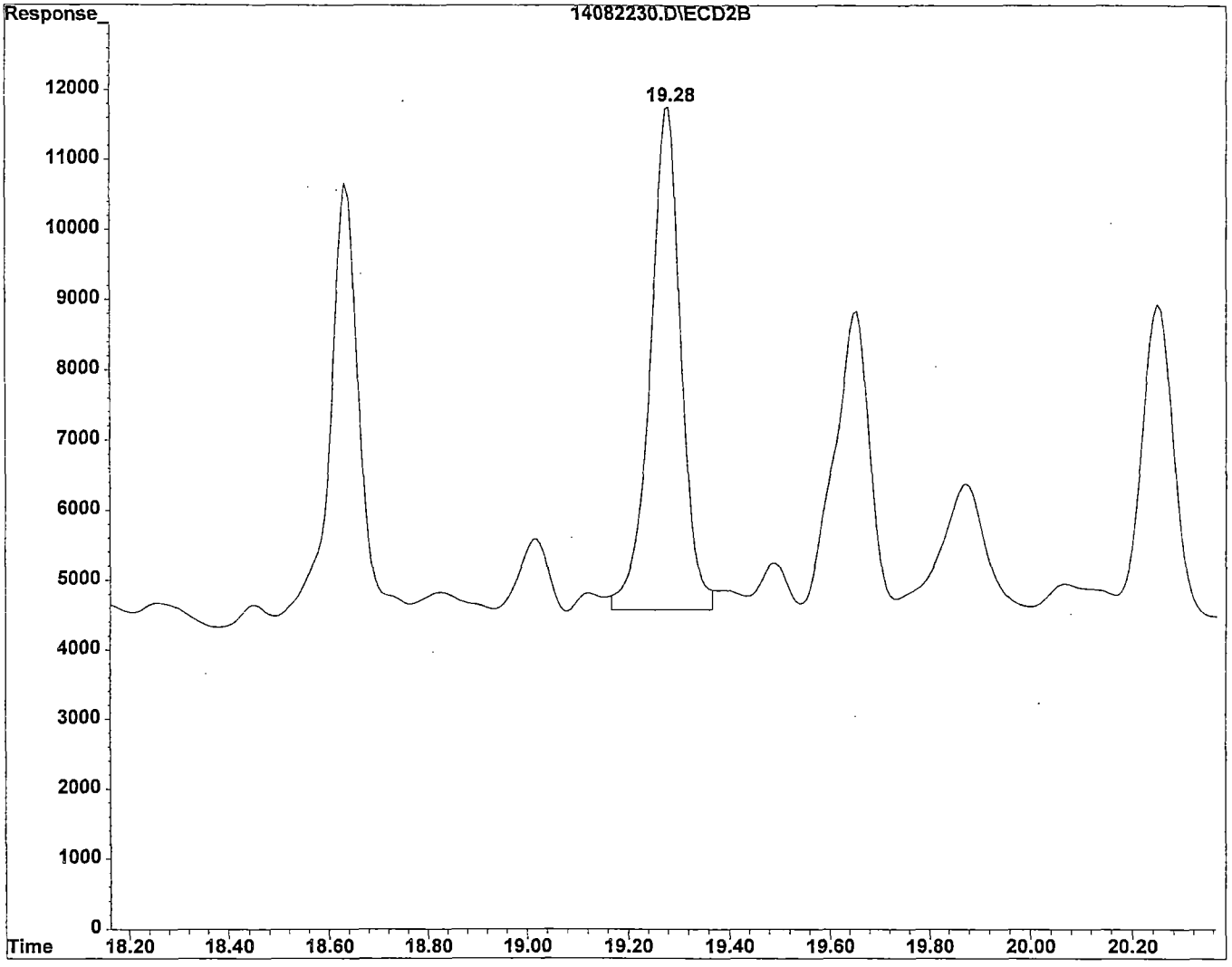
DCB 18.48min area: 342239 m

Integration Time Range: 18.32 - 18.53 JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082230.D
Report generated: Fri Sep 07 09:35:29 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082230.D
Date Acquired: 22 Aug 2001 21:59
Inst: HP_14 Operator ID: TLM
Name: 47166.12MS *E00Z1MS *
Misc: *EPA*30.2G/5.0ML*32
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 6 17:36 2001 Quant Results File: XPCBH20.RES



DCB #2 19.28min area: 304546 m

Integration Time Range: 19.16 - 19.37 JM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082230.D
Report generated: Fri Sep 07 09:35:30 2001

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00Z1MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29546 SDG No.: E00Y1

Matrix: (soil/water) SOIL Lab Sample ID: 47166.13MSD

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

% Moisture: 32 decanted: (Y/N) __ Date Received: 08/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/02/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 08/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

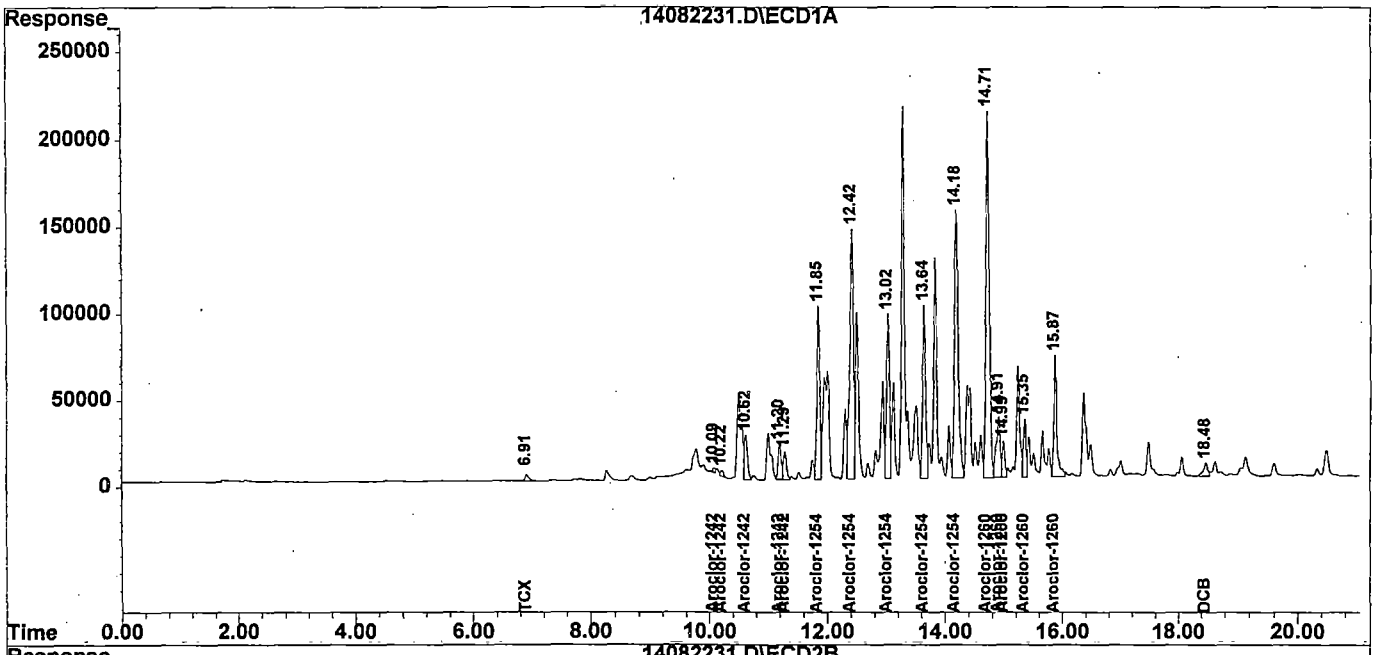
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	48	U
11104-28-2	Aroclor-1221	48	U
11141-16-5	Aroclor-1232	48	U
53469-21-9	Aroclor-1242	1700	EP
12672-29-6	Aroclor-1248	48	U
11097-69-1	Aroclor-1254	5400	E
11096-82-5	Aroclor-1260	2200	E
	Surrogate amount spiked	9.71	

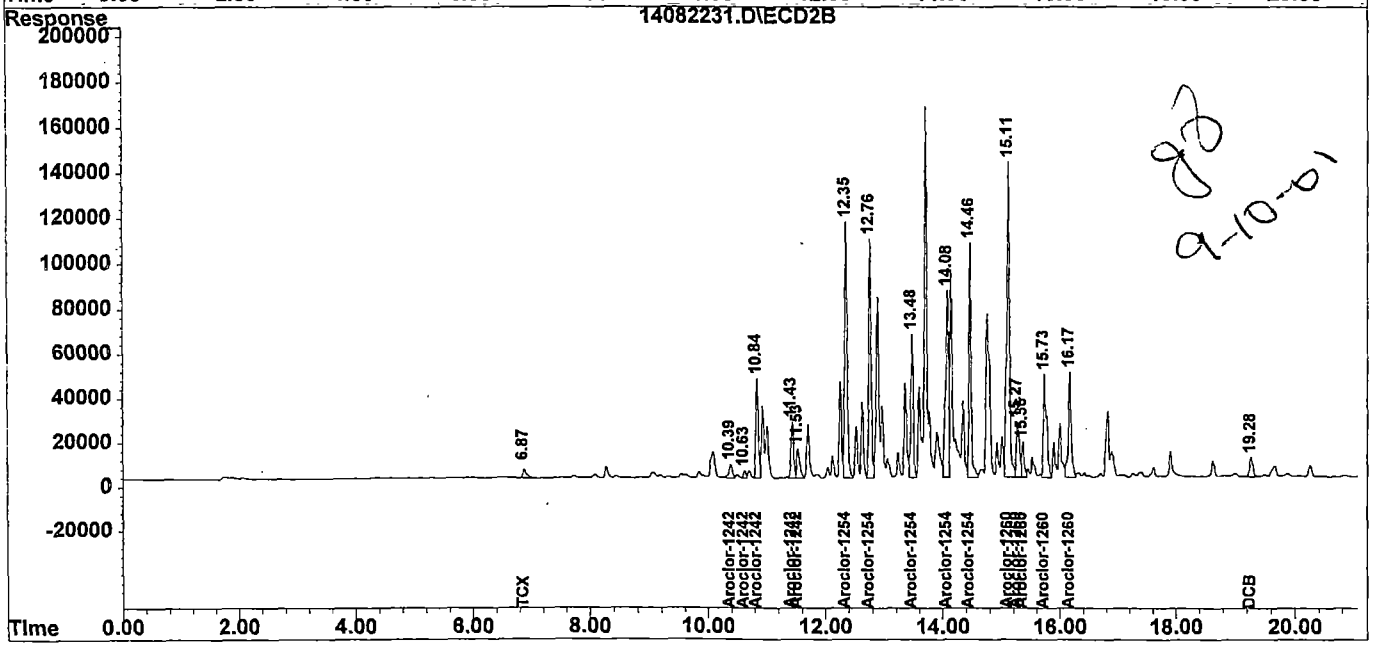
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082231.D\ECD1A.CH Vial: 31
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082231.D\ECD2B.CH
Acq On : 22 Aug 2001 22:23 Operator: TLM
Sample : 47166.13MSD *E00Z1MSD * Inst : HP_14
Misc : *EPA*30.3G/5.0ML*32 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 8:52 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082231.D\ECD1A.CH Vial: 31
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082231.D\ECD2B.CH
Acq On : 22 Aug 2001 22:23 Operator: TLM
Sample : 47166.13MSD *E00Z1MSD * Inst : HP_14
Misc : *EPA*30.3G/5.0ML*32 Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 8:52 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

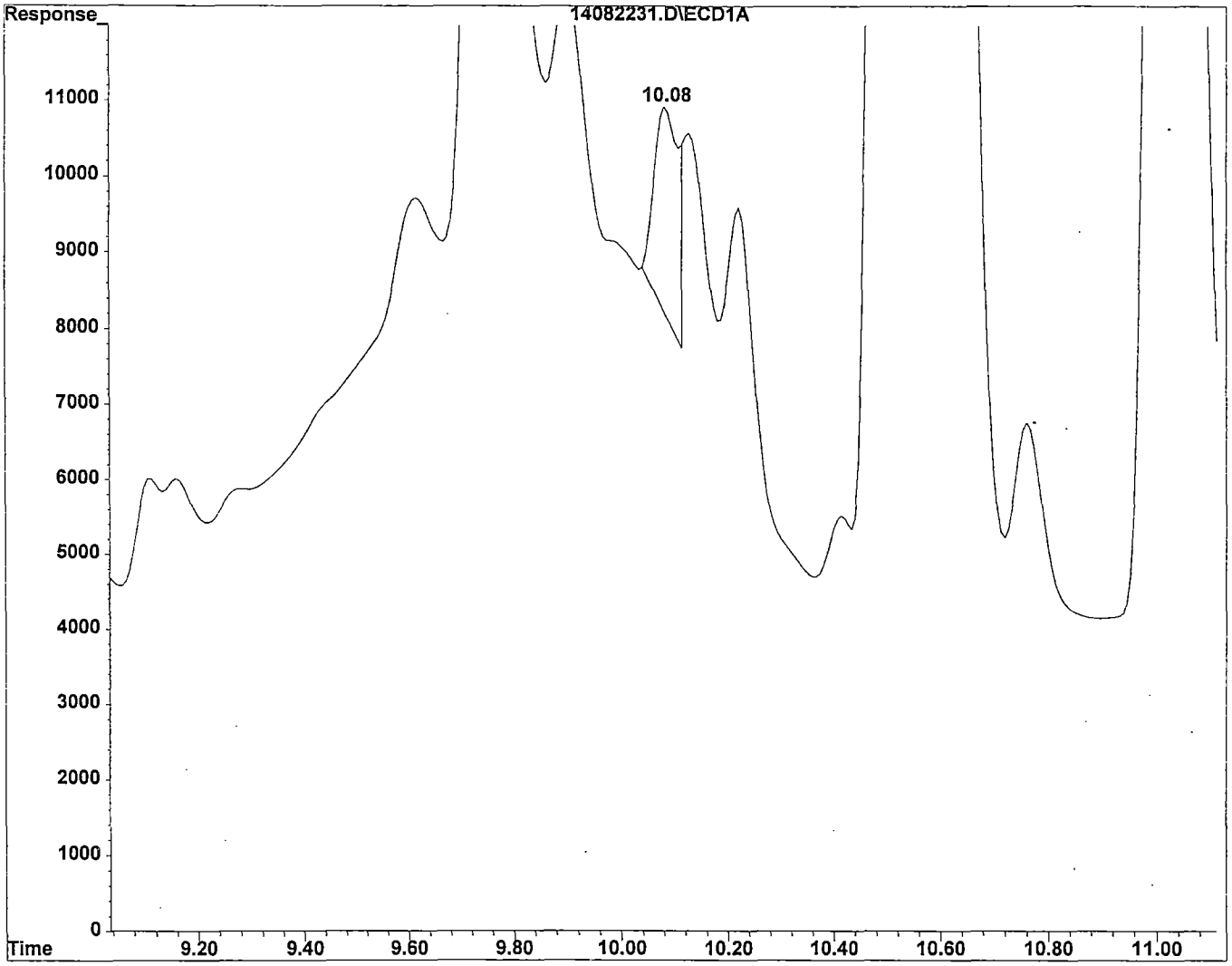
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	6.91	6.88	145712	160486	6.875	8.285	
	Spiked Amount 9.707			Recovery	=	70.83%	85.35%	
22)	S DCB	18.48	19.28	369574	353192	17.8m	26.5	#
	Spiked Amount 9.707			Recovery	=	183.38%	273.00%	
	Target Compounds:							
7)	L4 Aroclor-1242	10.08	10.39	88360	266731	165.2m	658.5	E#
8)	L4 Aroclor-1242 {2}	10.22	10.63	117872	101738	402.3m	489.9	
9)	L4 Aroclor-1242 {3}	10.63	10.84	890020	1377446	2684.3mE	5025.7	E#
10)	L4 Aroclor-1242 {4}	11.20	11.44	716034	768178	3071.4 E	2453.7	E
11)	L4 Aroclor-1242 {5}	11.29	11.53	612390	515176	2057.1 E	2762.1	E#
	Sum Aroclor-1242			2424677	3029269	8380.3	11389.9	
	Average Aroclor-1242					1676.062	2277.975	
12)	L6 Aroclor-1254	11.85	12.36	3496863	3508963	4340.6 E	5147.7	E
13)	L6 Aroclor-1254 {2}	12.42	12.76	6236717	3158773	5109.0 E	4776.2	E
14)	L6 Aroclor-1254 {3}	13.02	13.48	3351279	1938196	5557.2 E	4343.3	E
15)	L6 Aroclor-1254 {4}	13.64	14.08	3496878	2741988	6313.5 E	6662.8	E
16)	L6 Aroclor-1254 {5}	14.19	14.46	7001581	2884504	8070.6 E	6011.8	E#
	Sum Aroclor-1254			23583317	14232424	29390.9	26941.9	
	Average Aroclor-1254					5878.182	5388.376	
17)	L7 Aroclor-1260	14.71	15.12	8361228	4995242	6123.0 E	4436.8	E#
18)	L7 Aroclor-1260 {2}	14.91	15.27	1585479	954967	1967.8 E	1500.5	E
19)	L7 Aroclor-1260 {3}	15.00	15.36	670463	442826	1008.7 E	1019.2	E
20)	L7 Aroclor-1260 {4}	15.35	15.74f	1062447	1799177	1790.9 E	2855.9	E#
21)	L7 Aroclor-1260 {5}	15.88	16.18	2549166	1597360	1383.6 E	1342.5	E
	Sum Aroclor-1260			14228783	9789573	5957.1	5414.0	
	Average Aroclor-1260					2454.793	2231.002	

JM 9-7-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082231.D
Date Acquired: 22 Aug 2001 22:23
Inst: HP_14 Operator ID: TLM
Name: 47166.13MSD *E00Z1MSD *
Misc: *EPA*30.3G/5.0ML*32
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 8:52 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 10.08min area: 88360 m

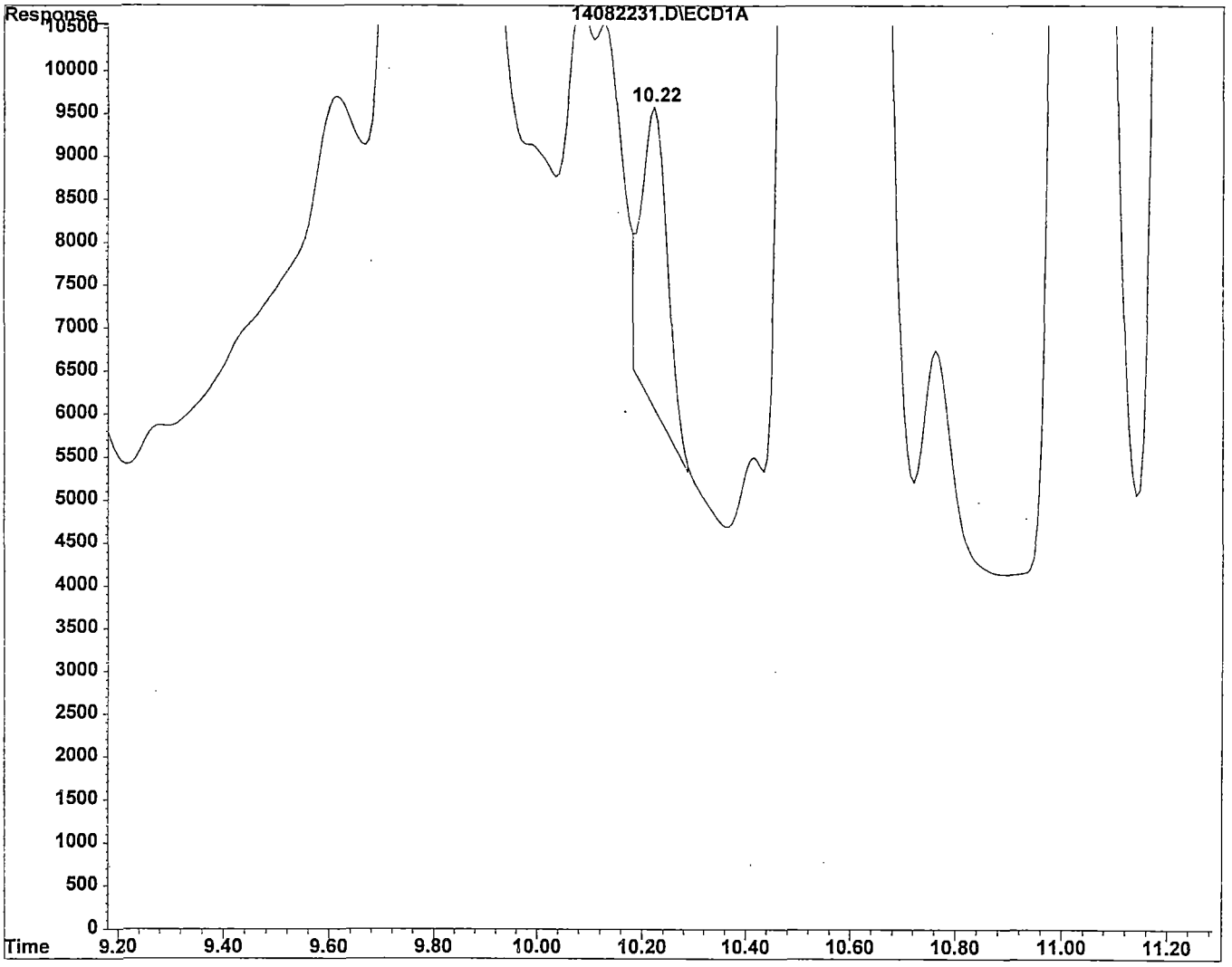
Integration Time Range: 10.04 - 10.11

TM 9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082231.D
Report generated: Fri Sep 07 09:35:31 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082231.D
Date Acquired: 22 Aug 2001 22:23
Inst: HP_14 Operator ID: TLM
Name: 47166.13MSD *E00Z1MSD *
Misc: *EPA*30.3G/5.0ML*32
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 8:52 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {2} 10.22min area: 117872 m

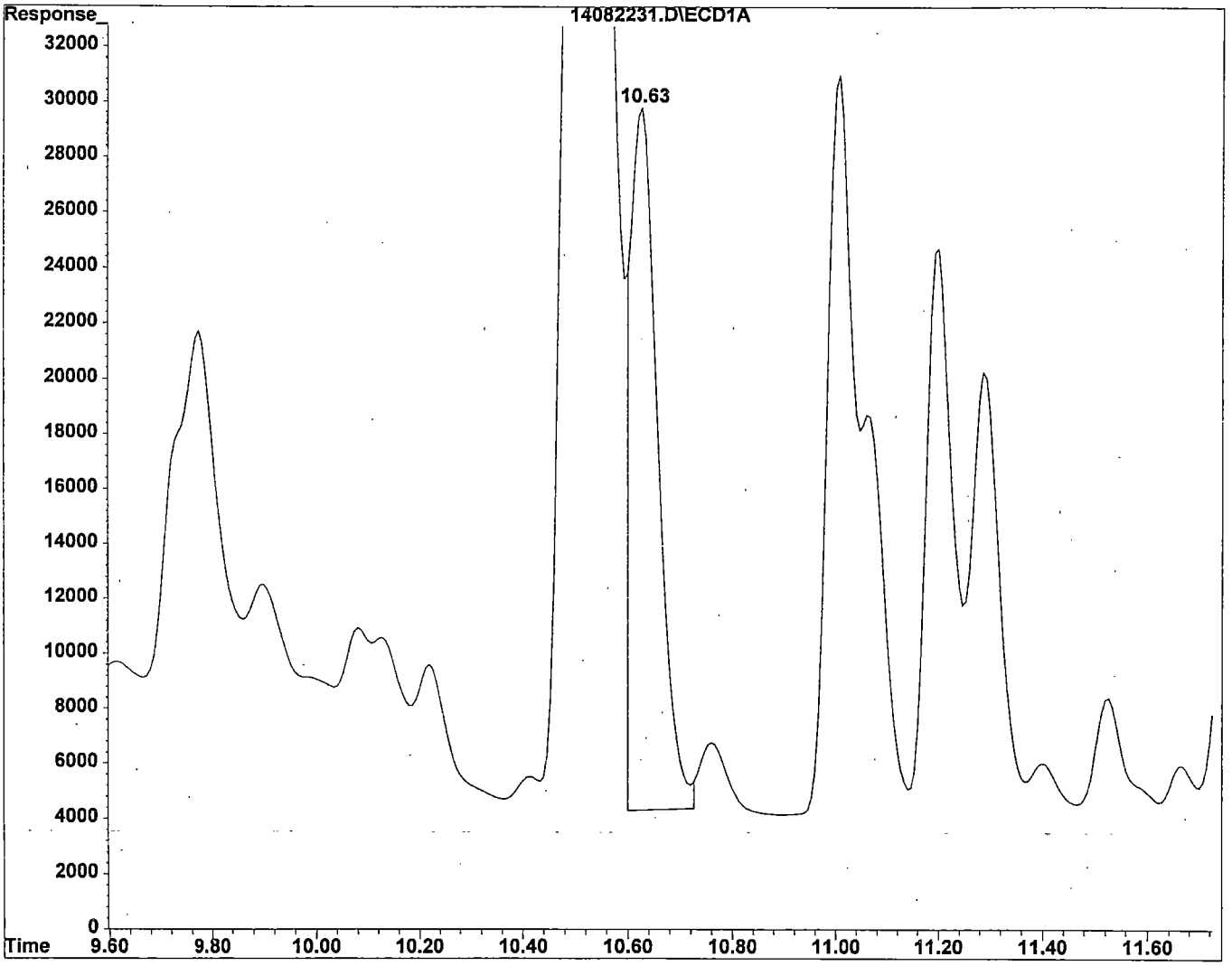
Integration Time Range: 10.18 - 10.28

TM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082231.D
Report generated: Fri Sep 07 09:35:32 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082231.D
Date Acquired: 22 Aug 2001 22:23
Inst: HP_14 Operator ID: TLM
Name: 47166.13MSD *E00Z1MSD *
Misc: *EPA*30.3G/5.0ML*32
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 8:52 2001 Quant Results File: XPCBH20.RES



Aroclor-1242 {3} 10.63min area: 890020 m

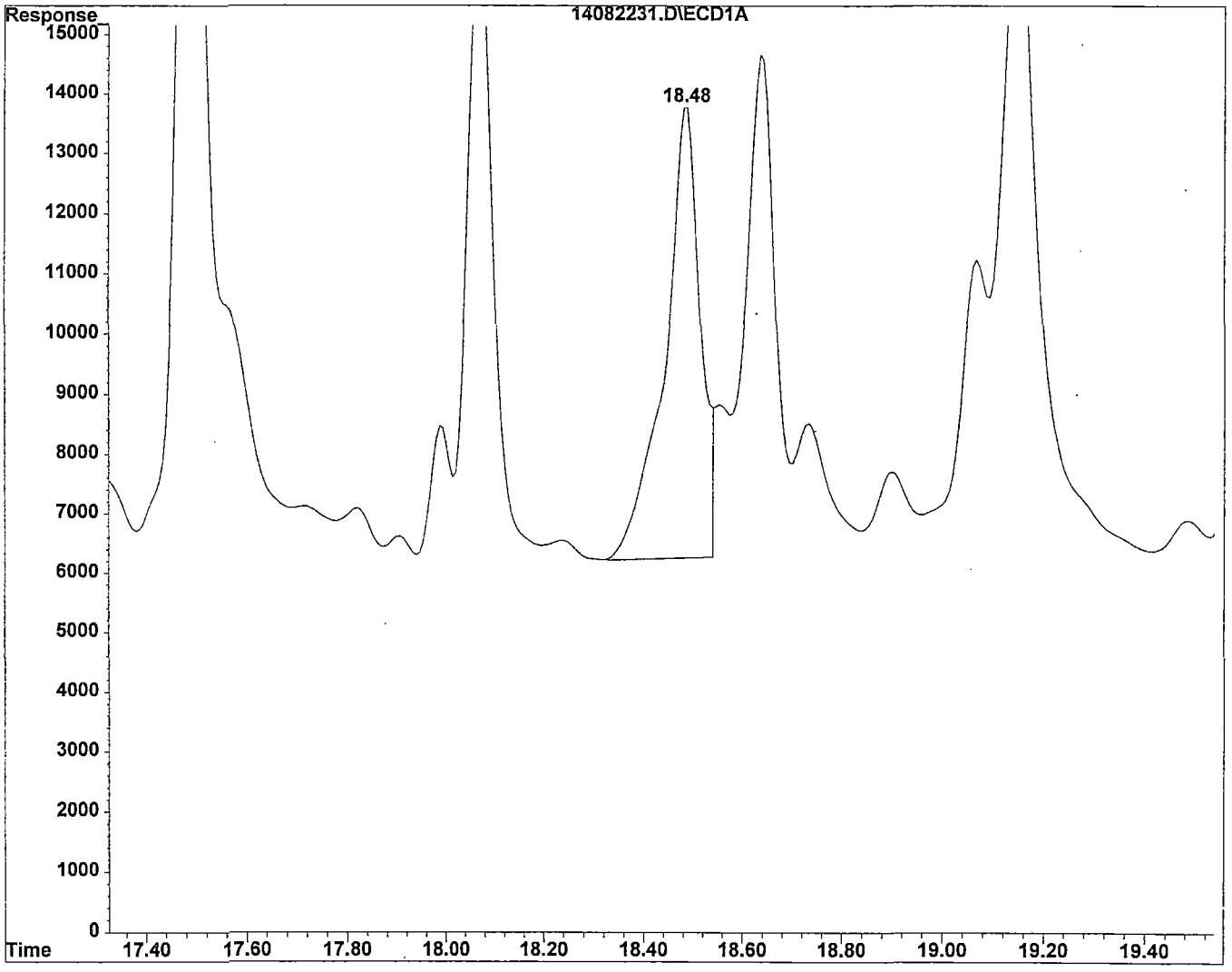
Integration Time Range: 10.60 - 10.72

TLM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082231.D
Report generated: Fri Sep 07 09:35:33 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\14\DATA\08_22_01\14082231.D
Date Acquired: 22 Aug 2001 22:23
Inst: HP_14 Operator ID: TLM
Name: 47166.13MSD *E00Z1MSD *
Misc: *EPA*30.3G/5.0ML*32
Method: F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title: PCB/TOXAPHENE
Quant Time: Sep 7 8:52 2001 Quant Results File: XPCBH20.RES



DCB 18.48min area: 369574 m

Integration Time Range: 18.32 - 18.54

TM
9-7-01

F:\HPCHEM\HP\14\DATA\08_22_01\14082231.D
Report generated: Fri Sep 07 09:35:34 2001

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#

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
08/05/01 20:53	1	CAL STD (INITIAL)	1_080501	
08/05/01 21:24	2	SB	1_080502	
08/05/01 21:55	3	SB	1_080503	
08/05/01 22:26	4	SB	1_080504	
08/05/01 22:57	5	SB	1_080505	
08/05/01 23:28	6	SB#080501A (PEST)	1_080506	
08/05/01 23:59	7	SB#080501B (PEST)	1_080507	
08/06/01 00:30	8	BL0802SE-EPA	1_080508	
08/06/01 01:01	9	BB0802SE-EPA	1_080509	
08/06/01 01:32	10	LC0802SE-EPA	1_080510	
08/06/01 02:03	11	LD0802SE-EPA	1_080511	
08/06/01 02:34	12	47166.01-E00Y1-EPA	1_080512	
08/06/01 03:05	13	47166.02-E00Y2-EPA	1_080513	
08/06/01 03:36	14	47166.07-E00Y7-EPA	1_080514	
08/06/01 04:07	15	47166.08-E00Y8-EPA	1_080515	
08/06/01 04:38	16	47166.09-E00Y9-EPA	1_080516	
08/06/01 05:09	17	47166.10-E00Z0-EPA	1_080517	
08/06/01 05:40	18	47166.19-E00Z7-EPA	1_080518	
08/06/01 06:10	19	47166.14-E00Z2-EPA	1_080519	
08/06/01 06:42	20	47166.15-E00Z3-EPA	1_080520	
08/06/01 07:12	21	47166.03-E00Y3-EPA	1_080521	

8/13/2001 8/21/01

Verification Signature/Date Analyst Signature/Date

Book: OE-102-16-RUN-19 Page No.: 74

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#

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
08/06/01 07:43	22	47166.04-E00Y4-EPA	1_080522	
08/06/01 08:14	23	47166.05-E00Y5-EPA	1_080523	
08/06/01 08:45	24	47166.06-E00Y6-EPA	1_080524	
08/06/01 09:16	25	47166.16-E00Z4-EPA	1_080525	
08/06/01 09:47	26	47166.17-E00Z5-EPA	1_080526	
08/06/01 10:18	27	47166.18-E00Z6-EPA	1_080527	
08/06/01 10:49	28	47166.20-E00Z8-EPA	1_080528	
08/06/01 11:19	29	47166.21-E00Z9-EPA	1_080529	
08/06/01 11:51	30	47166.22-E0100-EPA	1_080530	
08/06/01 12:21	31	47166.11-E00Z1-EPA	1_080531	
08/06/01 12:52	32	47166.12-MS-E00Z1-EPA	1_080532	
08/06/01 13:23	33	47166.13-MSD-E00Z1-EPA	1_080533	
08/06/01 13:54	34	SB	1_080534	
08/06/01 14:25	35	SB	1_080535	
08/06/01 14:56	36	SB	1_080536	
08/06/01 15:27	37	SB	1_080537	
08/06/01 15:58	38	CAL STD (FINAL)	1_080538	

Compound	Initial RT	Final RT	% Difference
Phthalate	13.91	14.13	1.58
Methoxychlor	15.48	15.71	1.45
Perylene	20.	20.42	

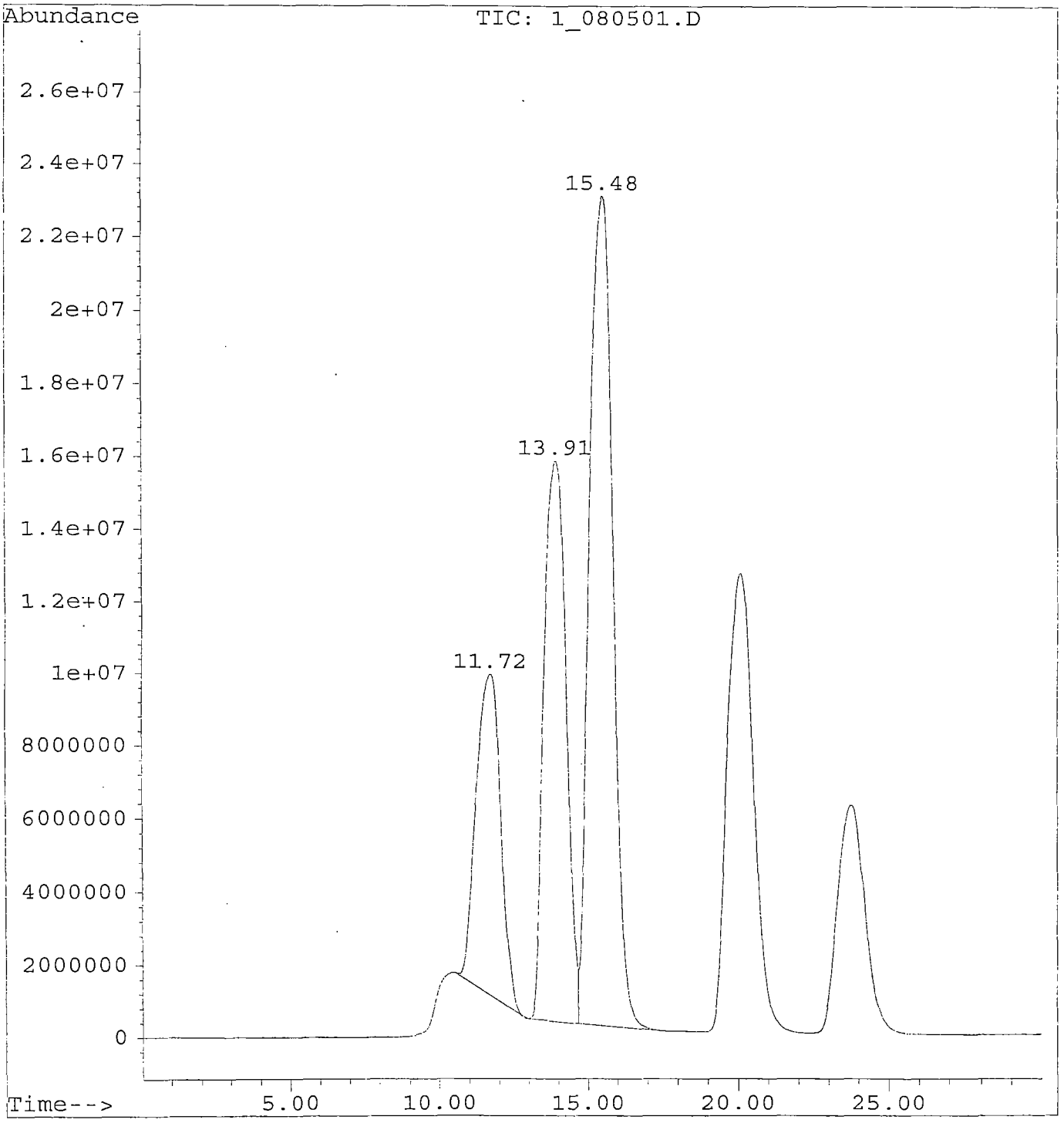
8/21/2001
Verification Signature/Date

8/21/01
Analyst Signature/Date

Book: OE-102-16-RUN-19 Page No.: 75

Data File : C:\HPCHEM\5\DATA\080501\1_080501.D
Acq On : 05 Aug 01 08:53 PM
Sample : CAL STD (INITIAL)
Misc : COL# 418002

Vial: 1
Operator: CD COL#
Inst : GPC1
Multiplr: 1.00



5) 11.72 = Corn Oil

Chromatographic Resolution Report

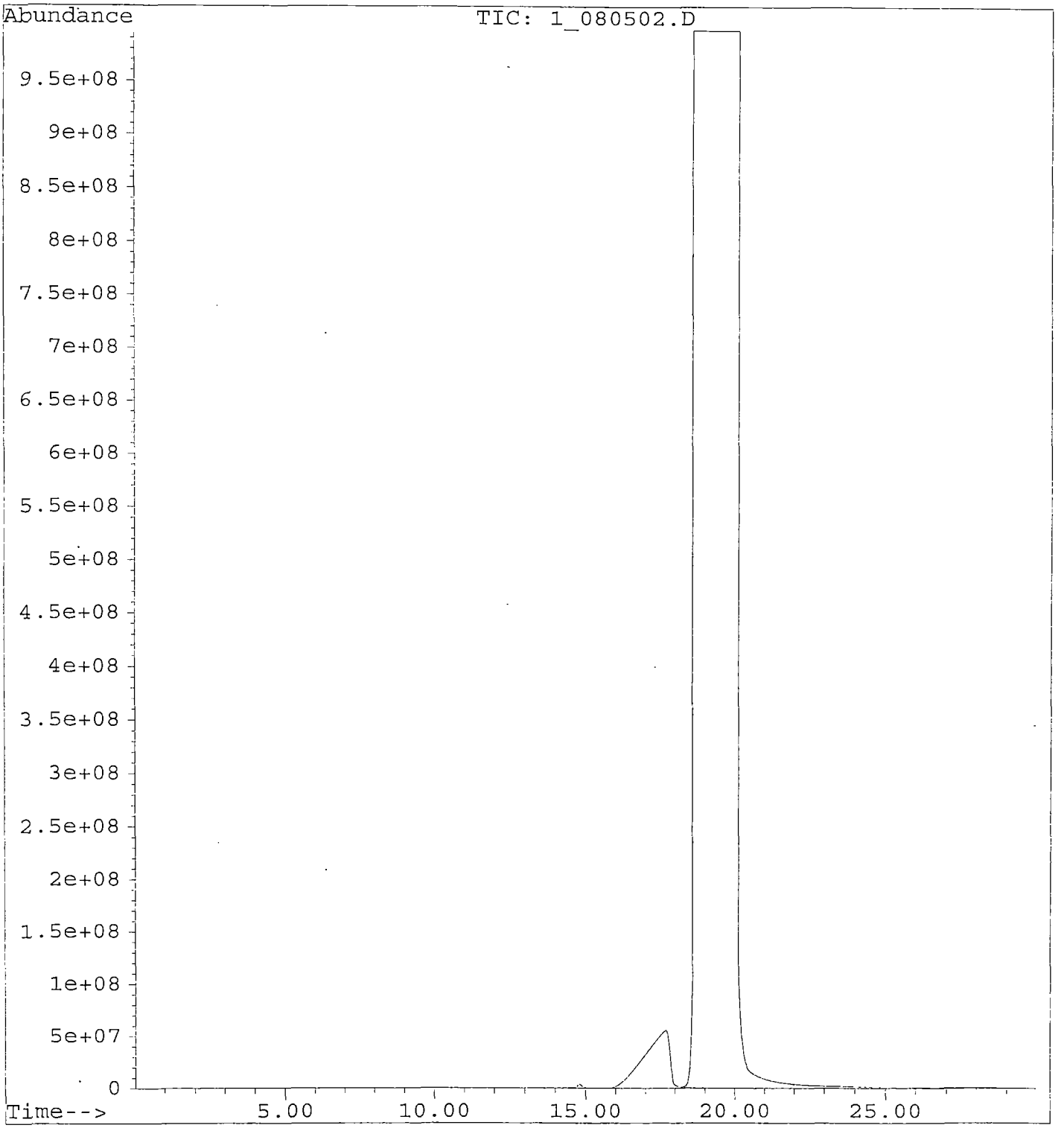
Data File : C:\HPCHEM\5\DATA\080501\1_080501.D
Acq On : 05 Aug 01 20:53
Sample : CAL STD (INITIAL)
Misc : COL# 418002

Vial: 1
Operator: CD COL# 41
Inst : GPC1
Multiplr: 1.00

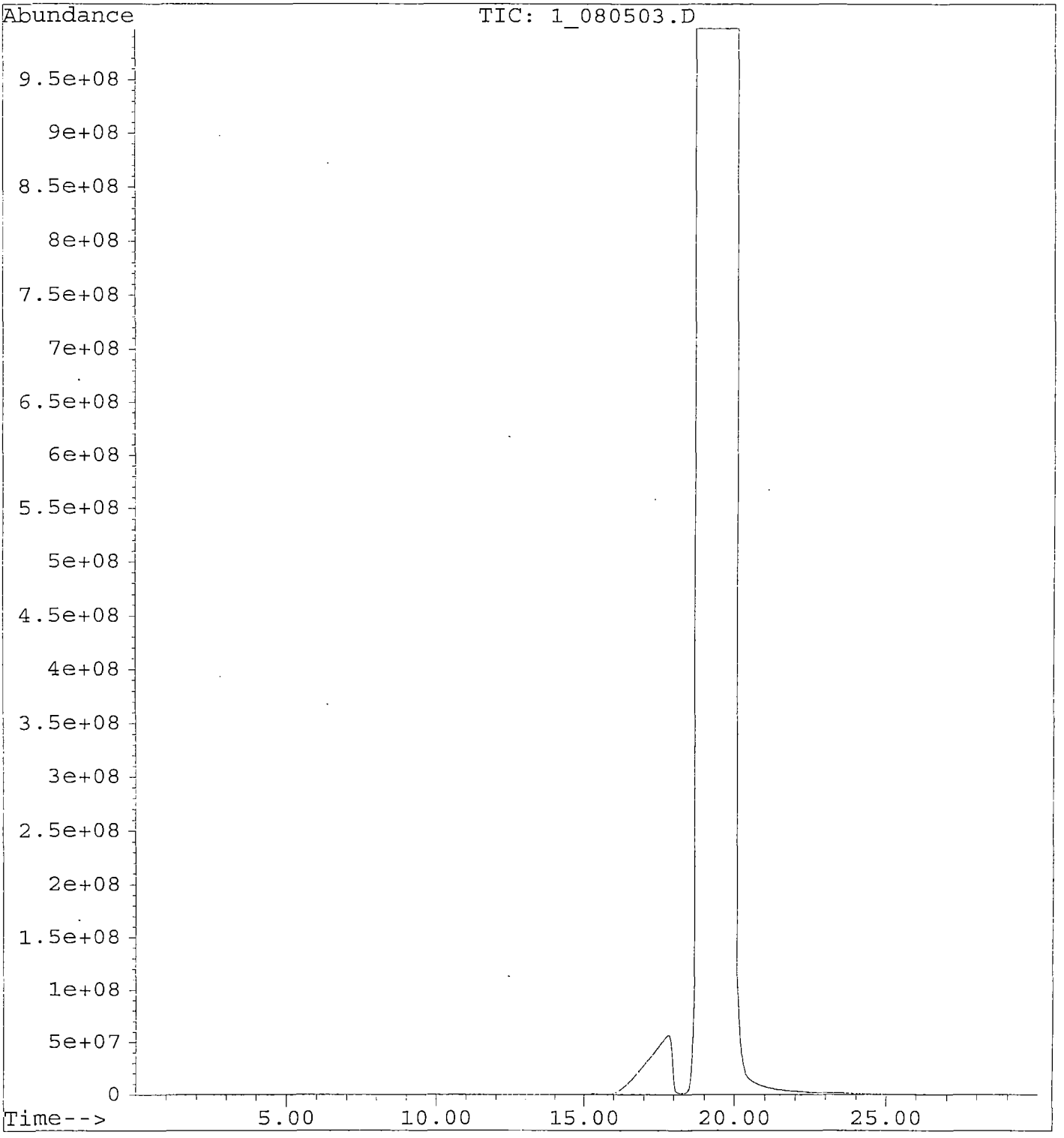
Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.718	13.912	100.00
13.912	15.481	90.73

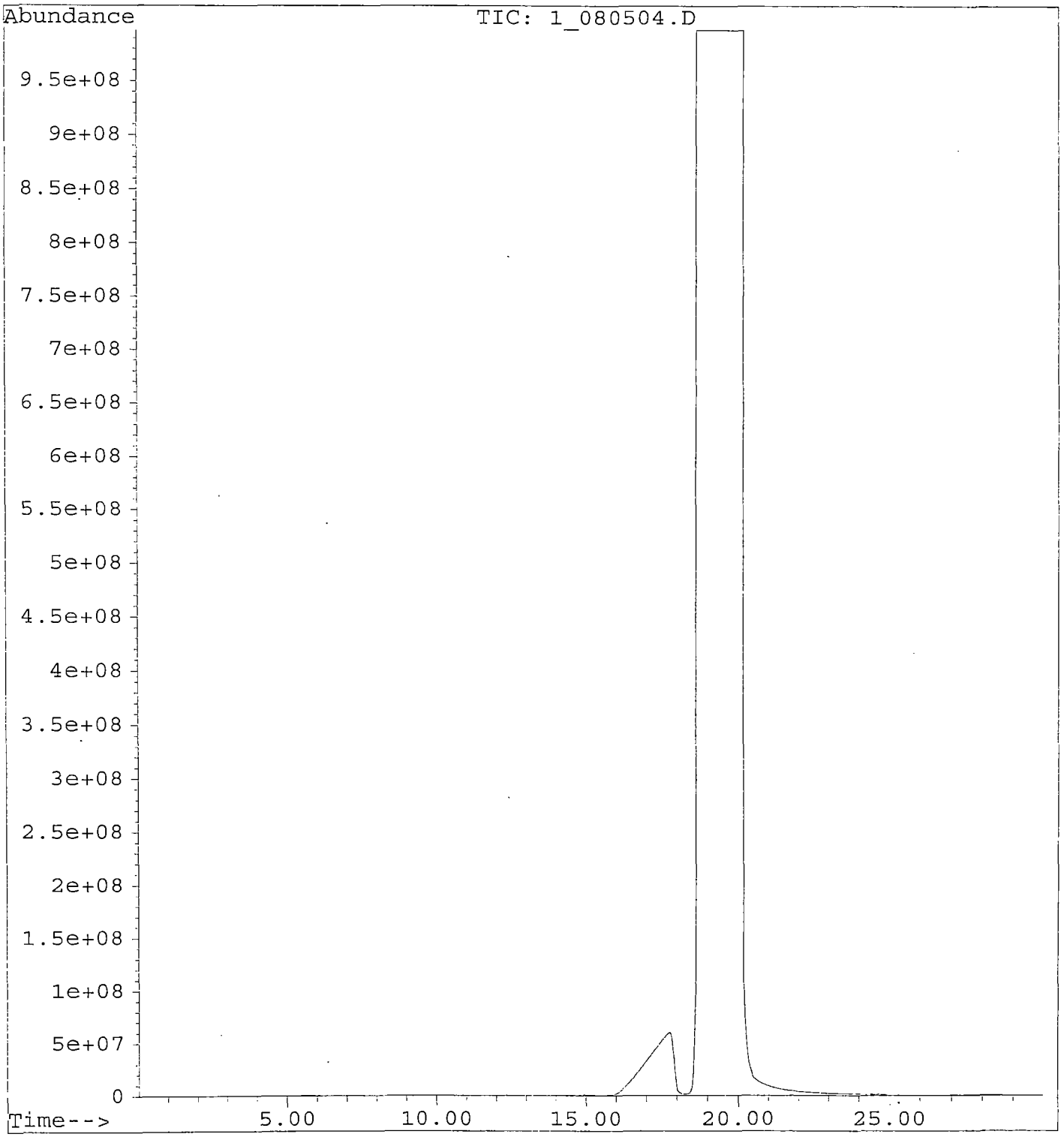
File : C:\HPCHEM\5\DATA\080501\1_080502.D
Operator : CD COL# 418002
Acquired : 05 Aug 01 21:24 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 2



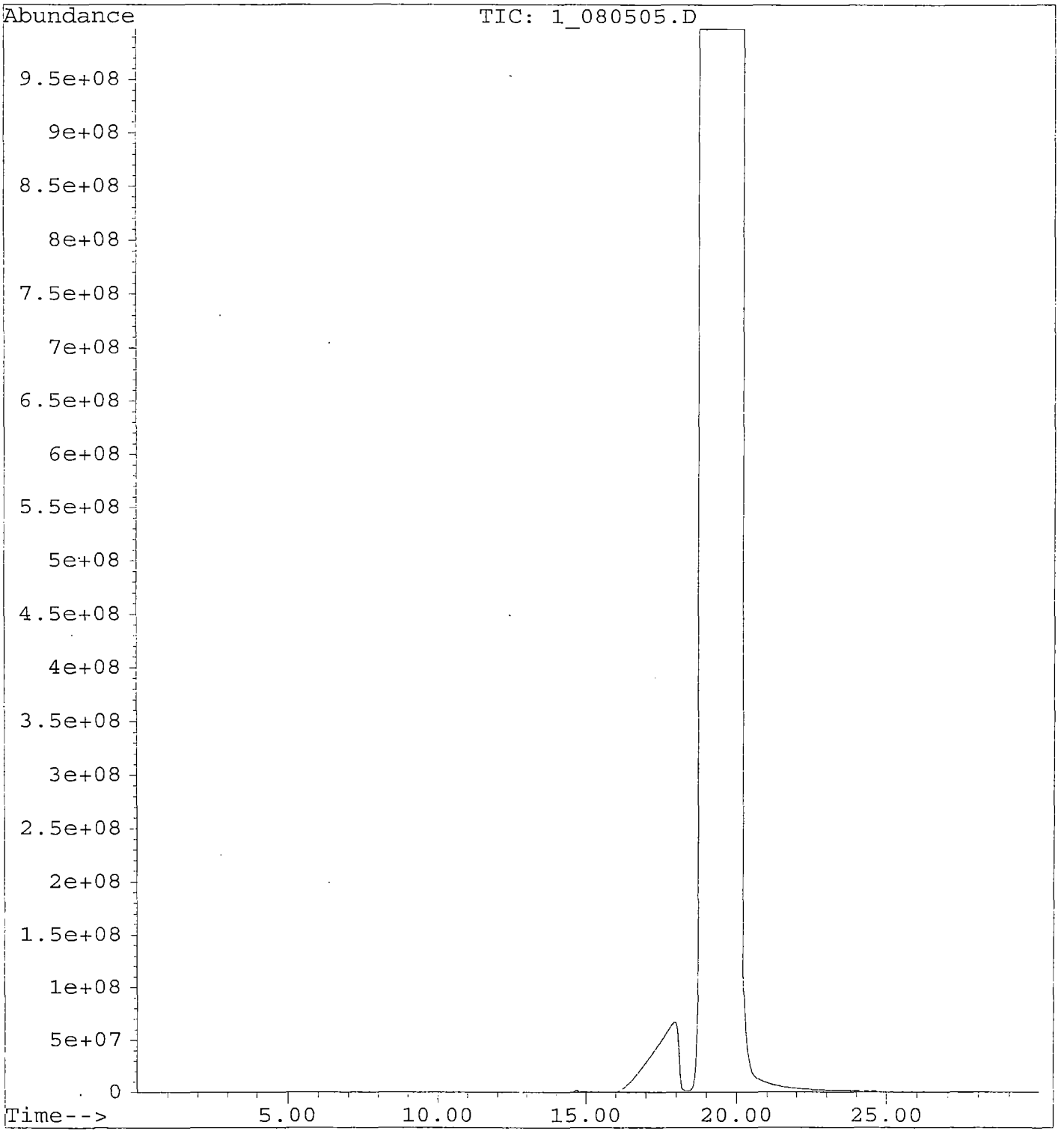
File : C:\HPCHEM\5\DATA\080501\1_080503.D
Operator : CD COL# 418002
Acquired : 05 Aug 01 21:55 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 3



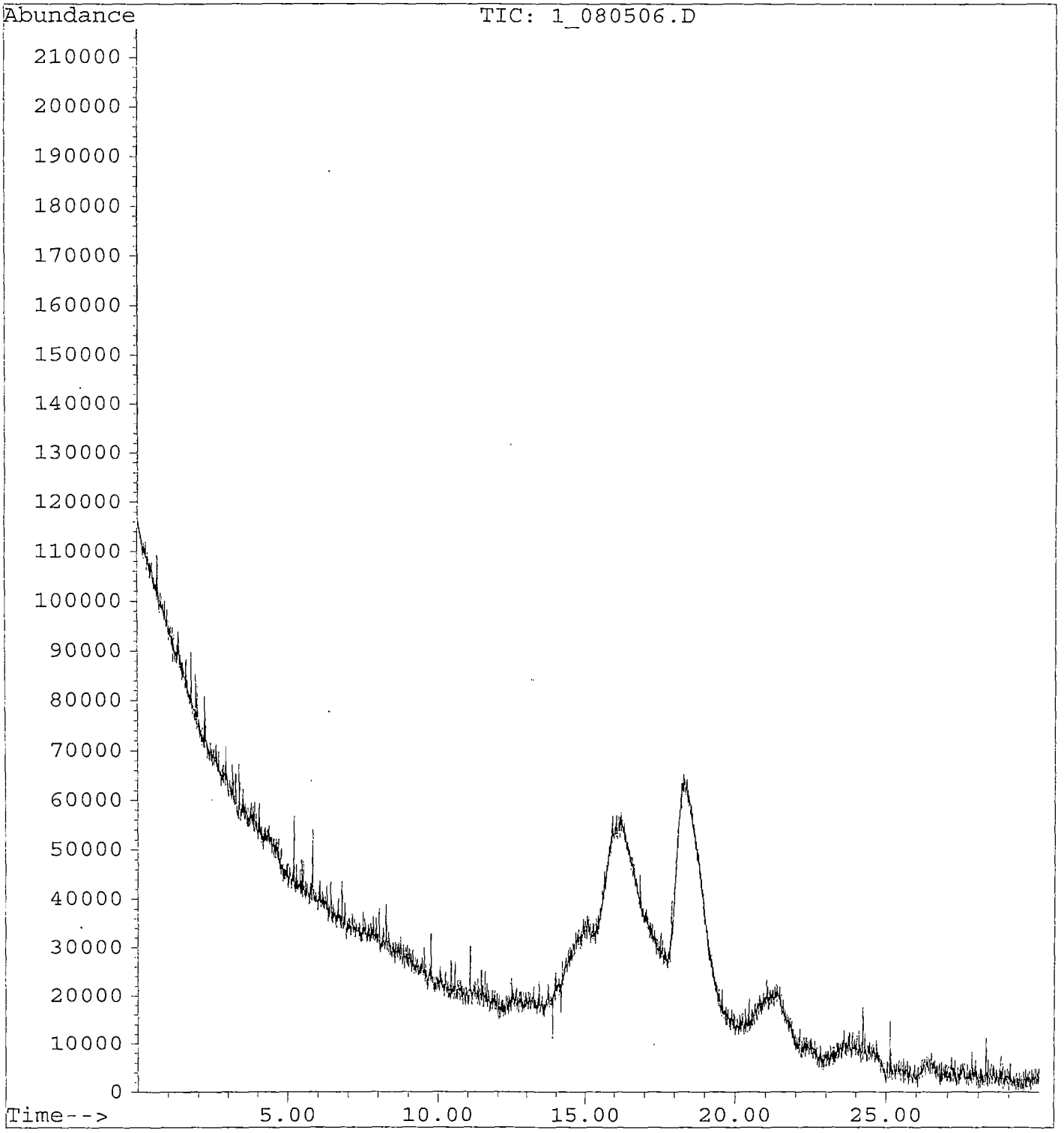
File : C:\HPCHEM\5\DATA\080501\1_080504.D
Operator : CD COL# 418002
Acquired : 05 Aug 01 22:26 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 4



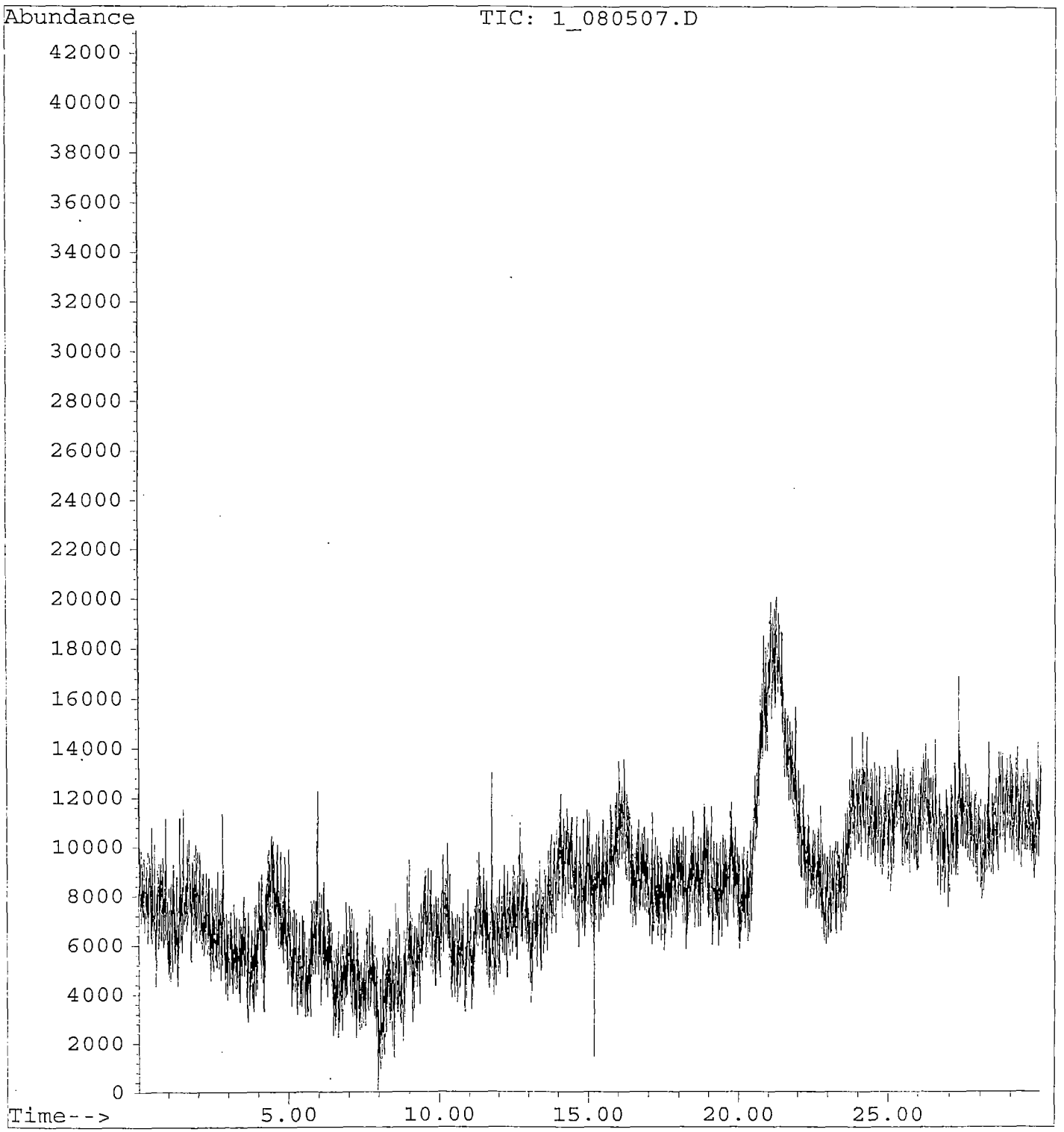
File : C:\HPCHEM\5\DATA\080501\1_080505.D
Operator : CD COL# 418002
Acquired : 05 Aug 01 22:57 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 5



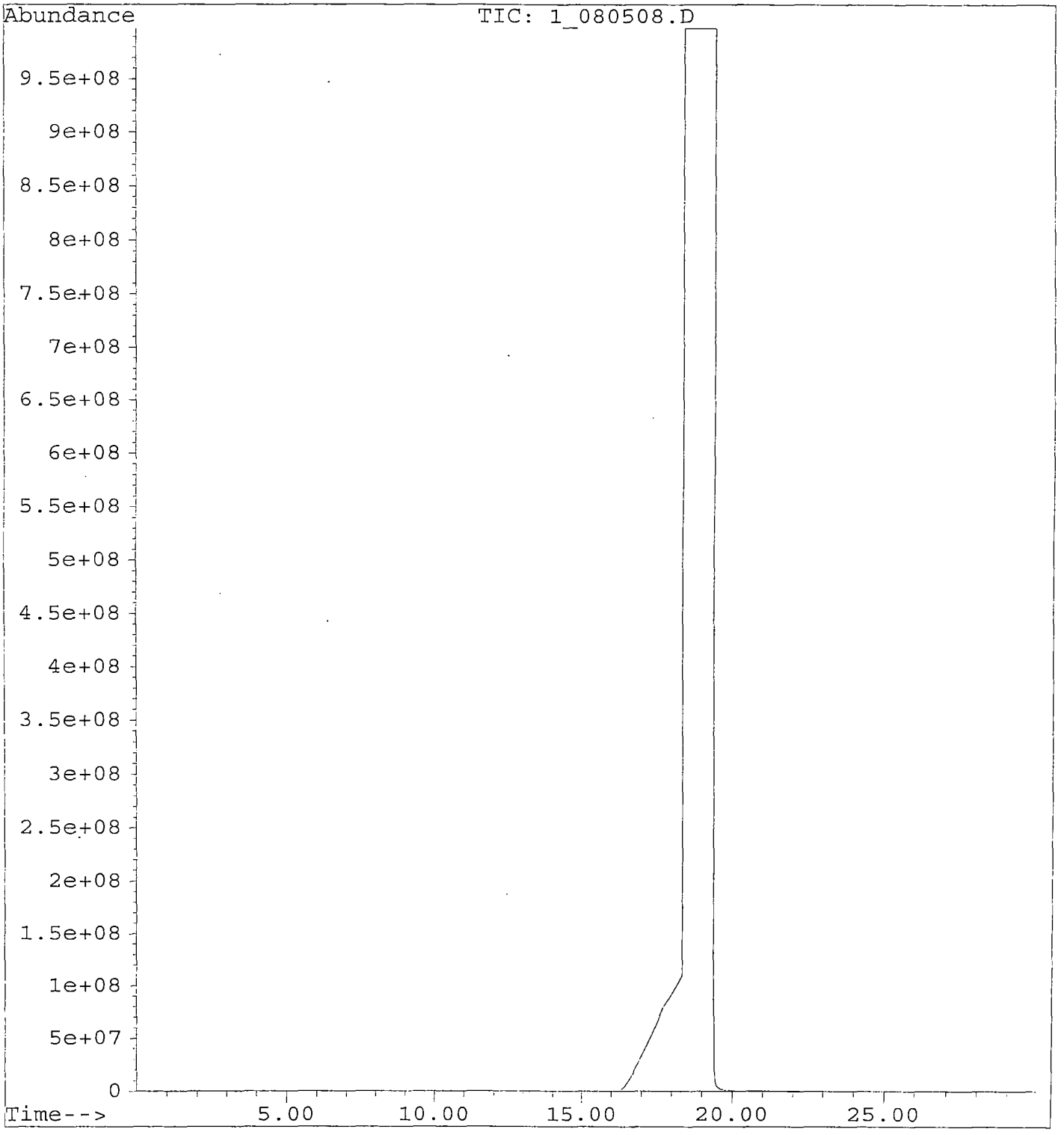
File : C:\HPCHEM\5\DATA\080501\1_080506.D
Operator : CD COL# 418002
Acquired : 05 Aug 01 23:28 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB#080501A (PEST)
Misc Info : COL# 418002
Vial Number: 6



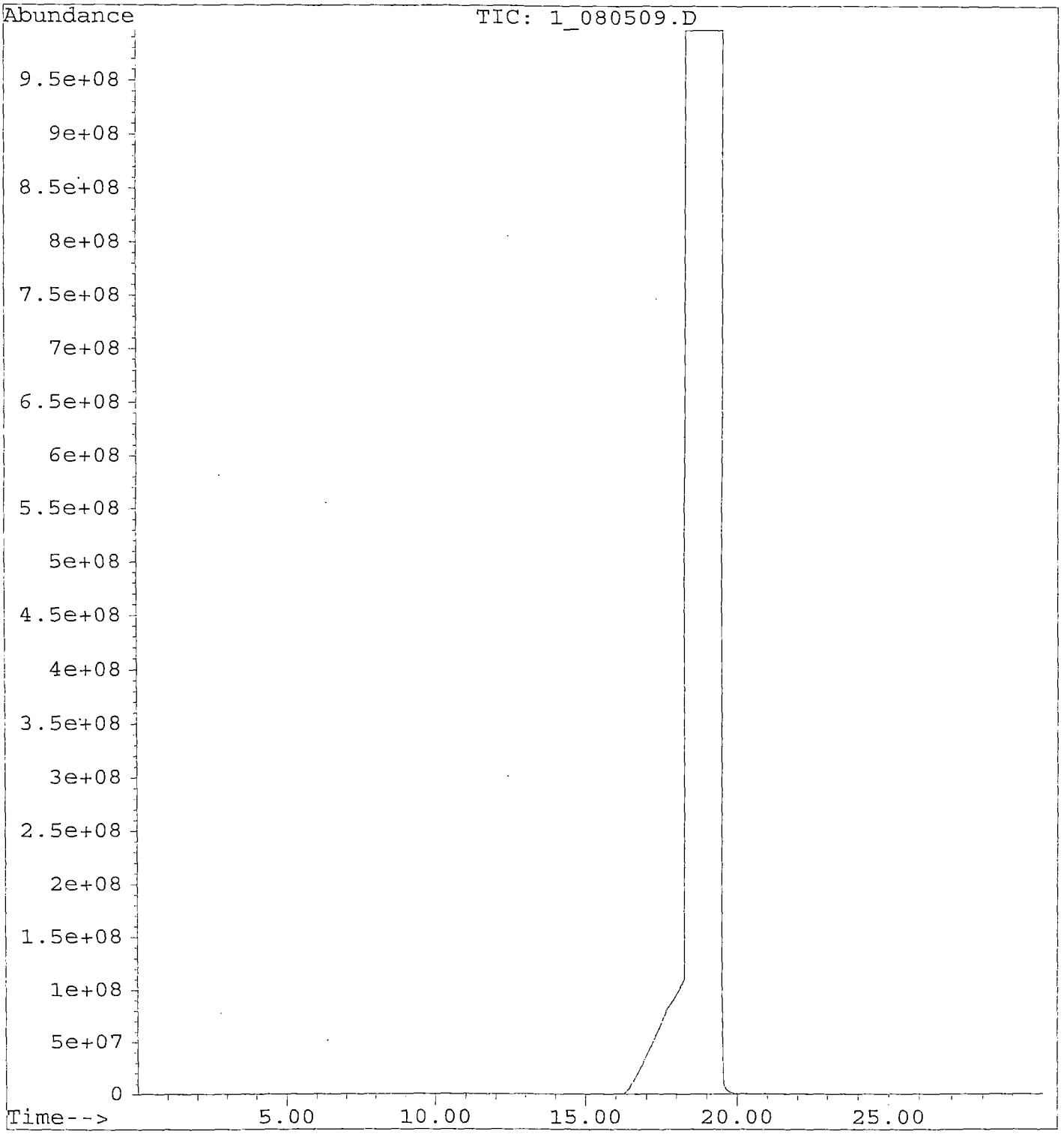
File : C:\HPCHEM\5\DATA\080501\1_080507.D
Operator : CD COL# 418002
Acquired : 05 Aug 01 23:59 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB#080501B (PEST)
Misc Info : COL# 418002
Vial Number: 7



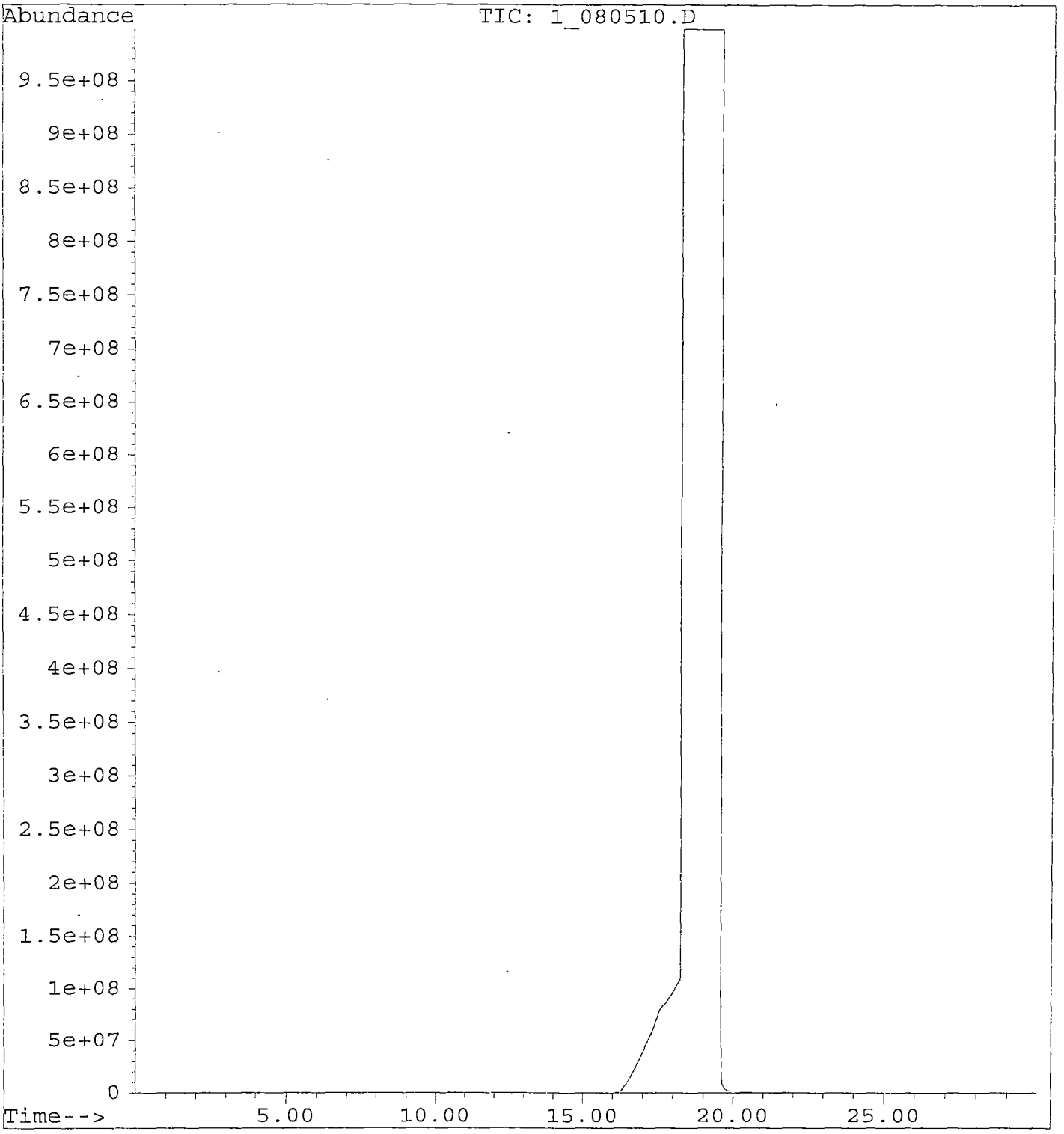
File : C:\HPCHEM\5\DATA\080501\1_080508.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 00:30 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: BL0802SE-EPA
Misc Info : COL# 418002
Vial Number: 8



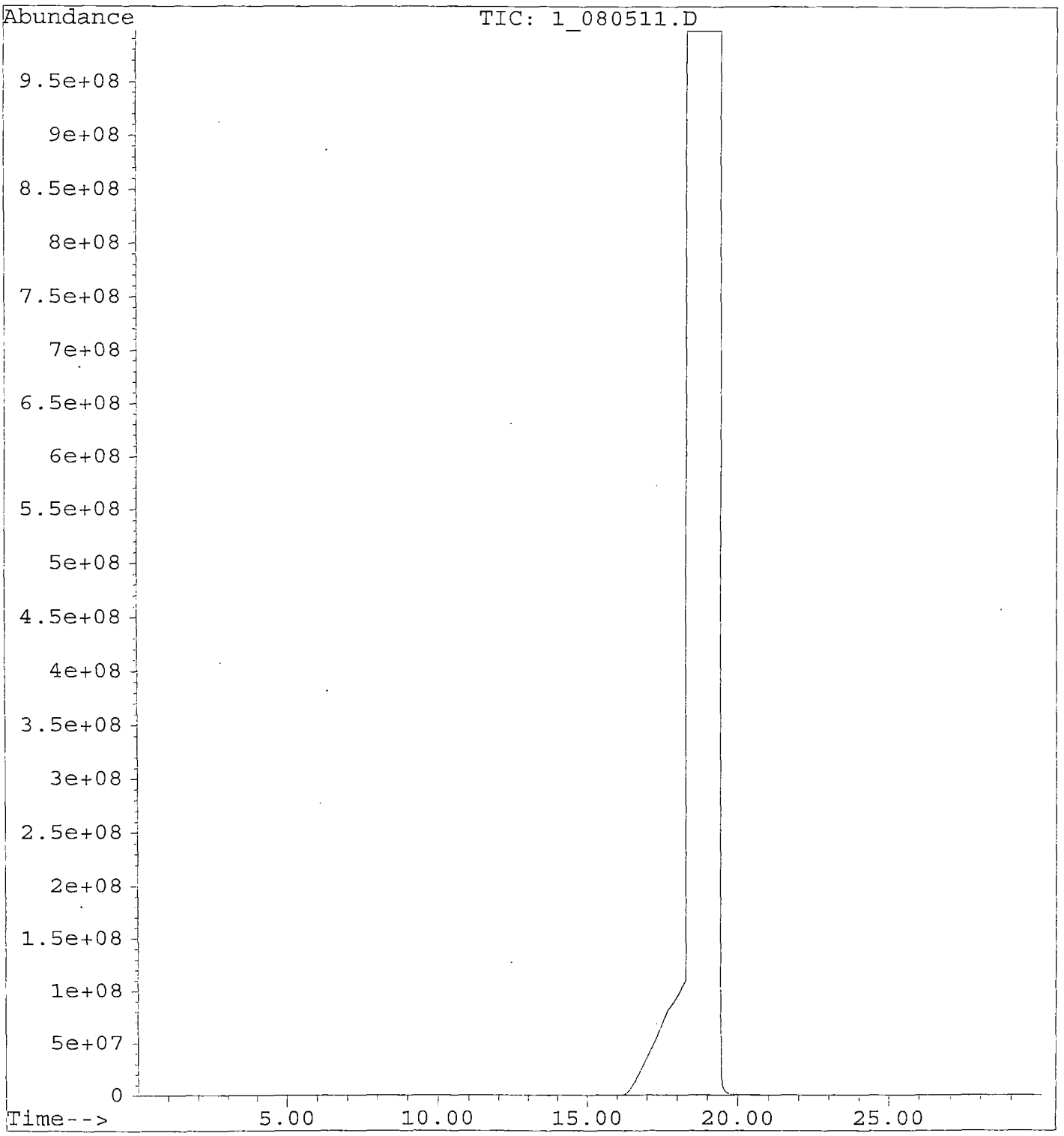
File : C:\HPCHEM\5\DATA\080501\1_080509.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 01:01 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: BB0802SE-EPA
Misc Info : COL# 418002
Vial Number: 9



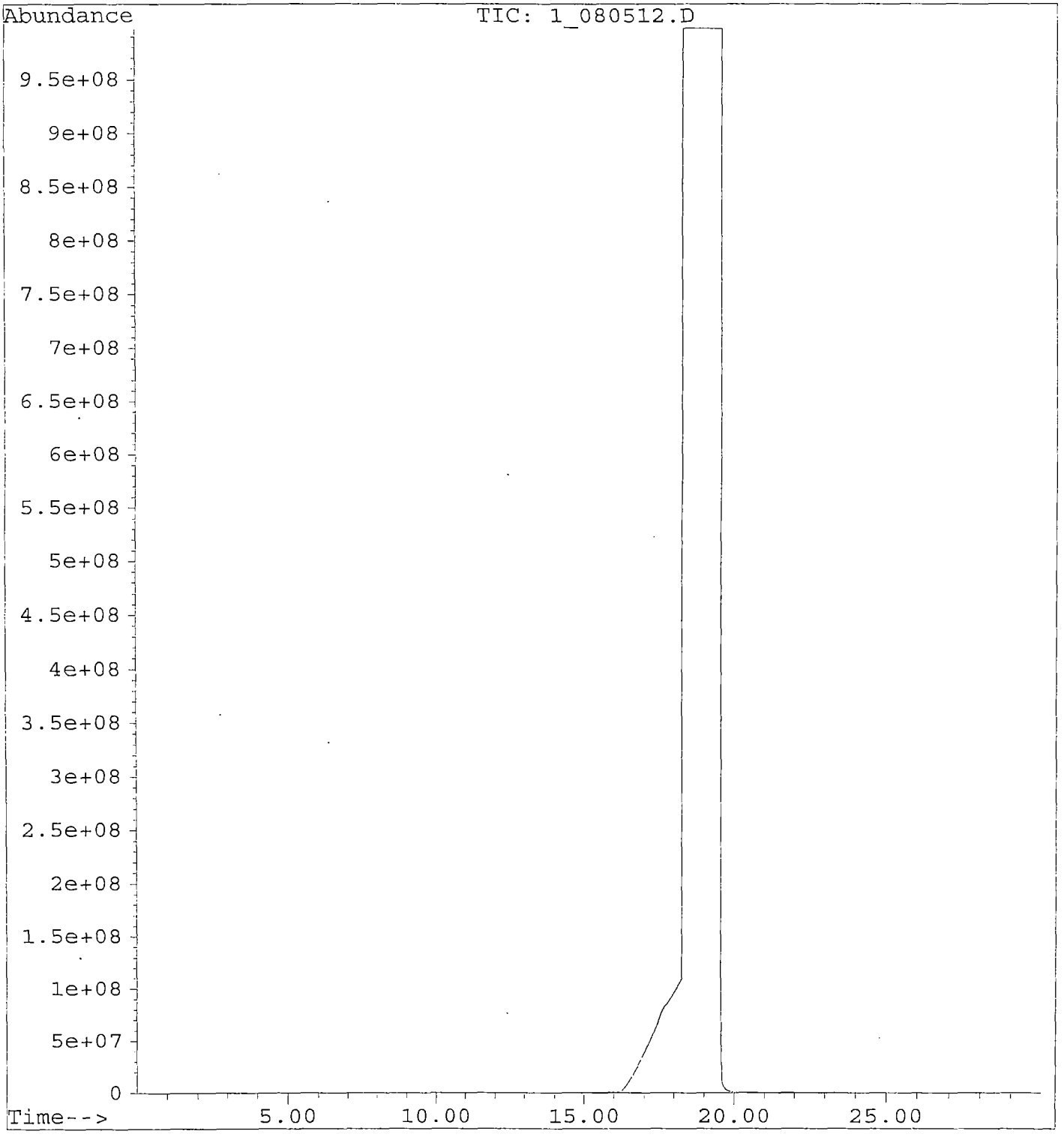
File : C:\HPCHEM\5\DATA\080501\1_080510.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 01:32 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: LC0802SE-EPA
Misc Info : COL# 418002
Vial Number: 10



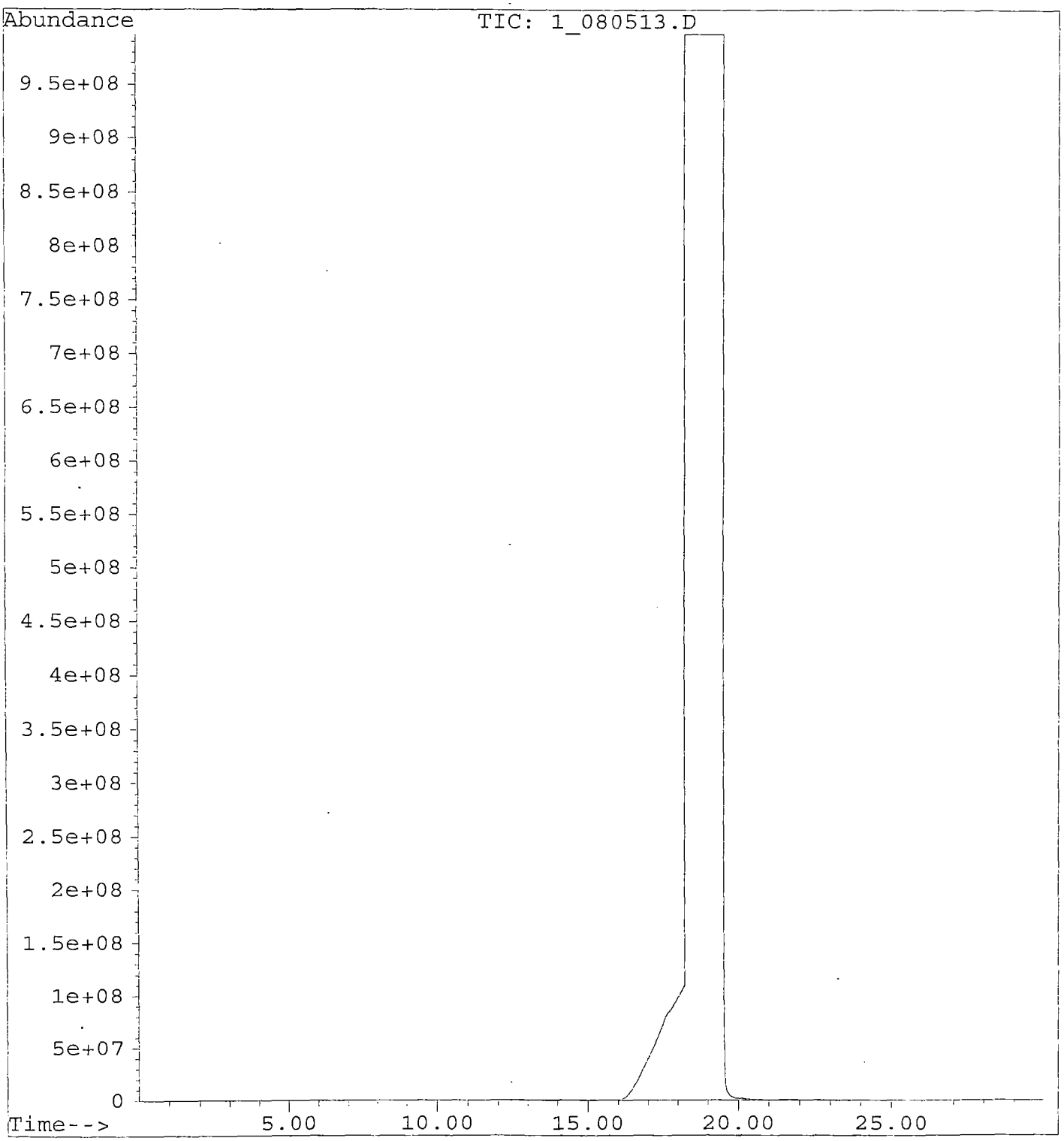
File : C:\HPCHEM\5\DATA\080501\1_080511.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 02:03 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: LD0802SE-EPA
Misc Info : COL# 418002
Vial Number: 11



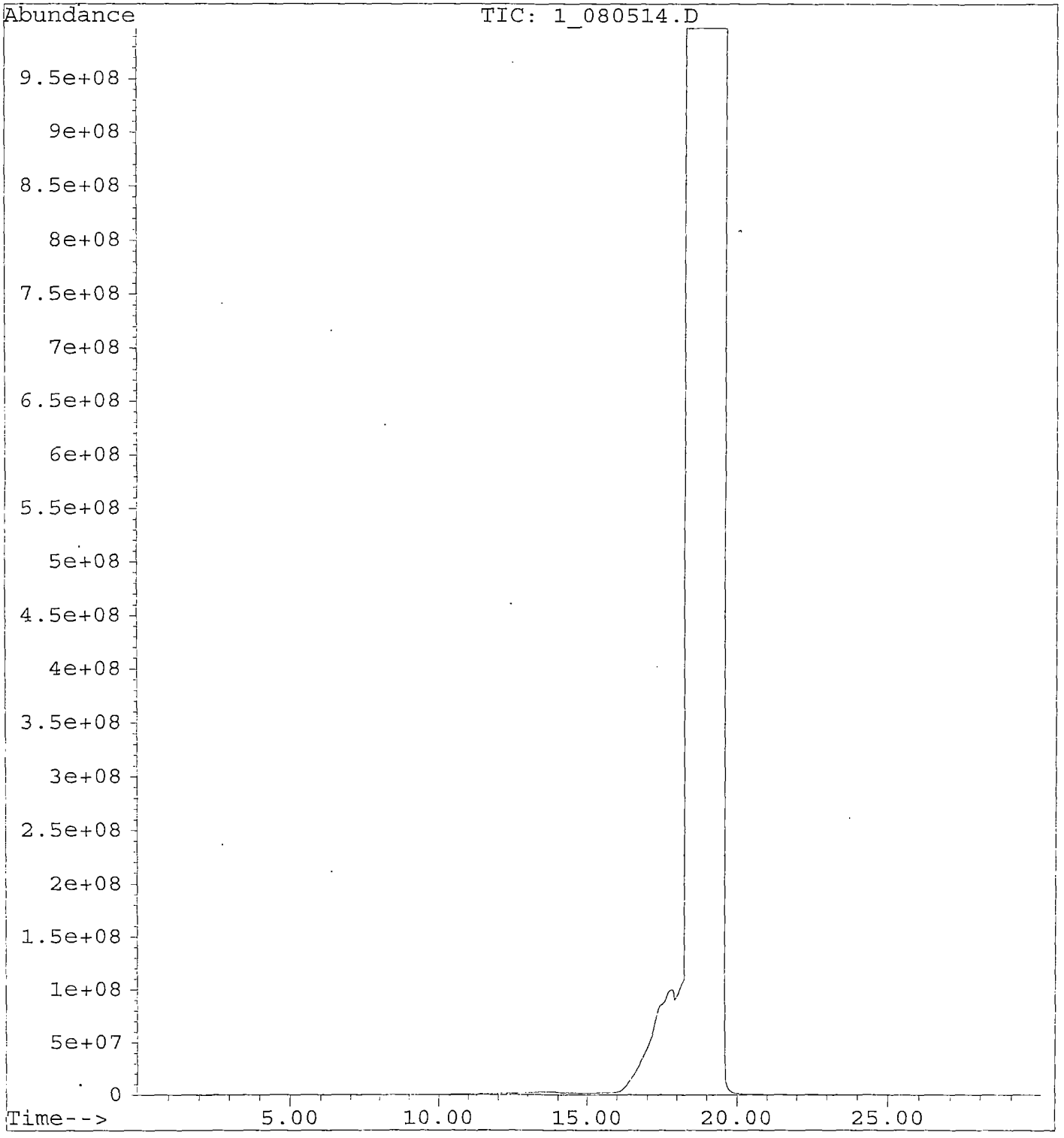
File : C:\HPCHEM\5\DATA\080501\1_080512.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 02:34 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.01-E00Y1-EPA
Misc Info : COL# 418002
Vial Number: 12



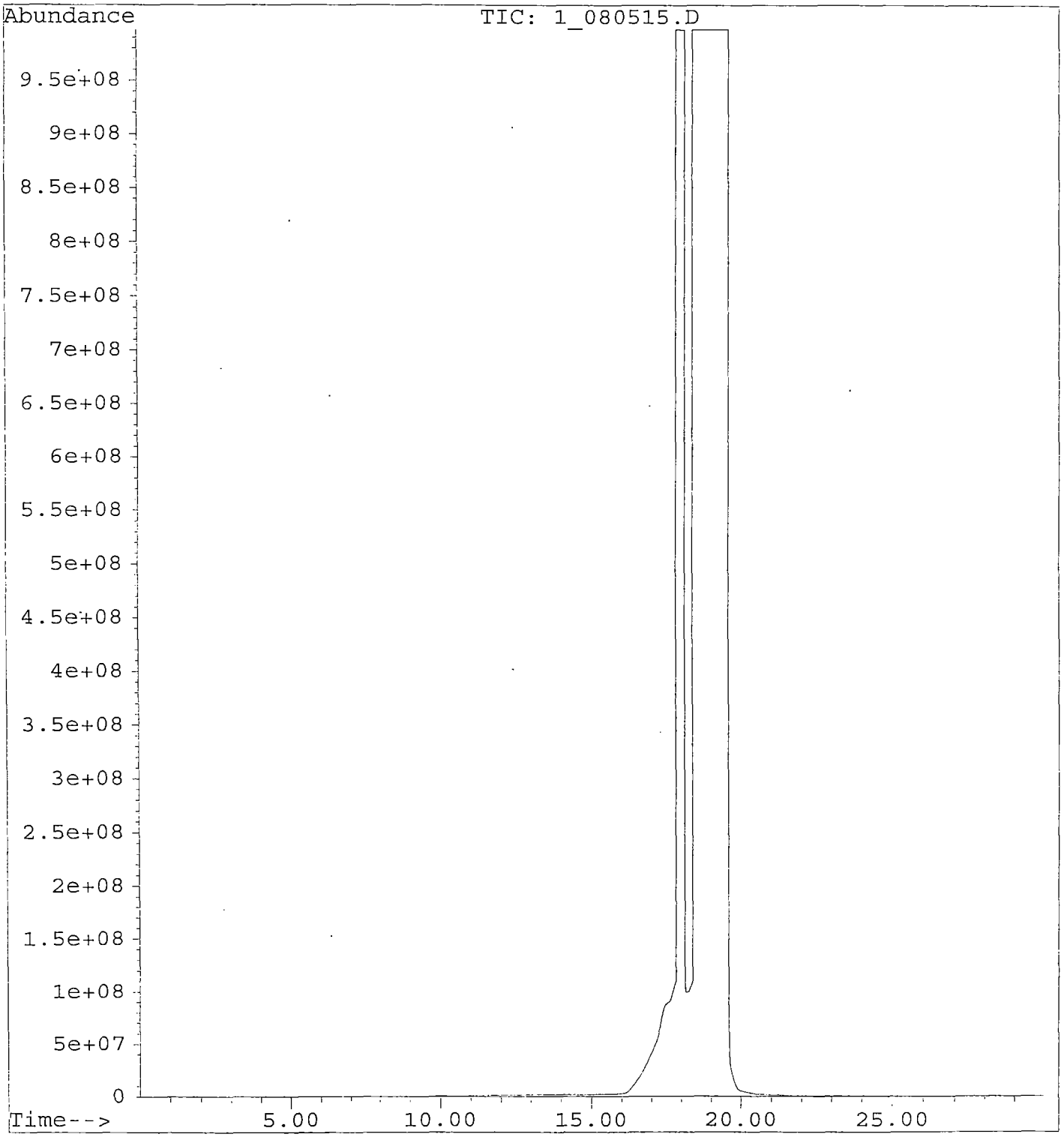
File : C:\HPCHEM\5\DATA\080501\1_080513.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 03:05 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.02-E00Y2-EPA
Misc Info : COL# 418002
Vial Number: 13



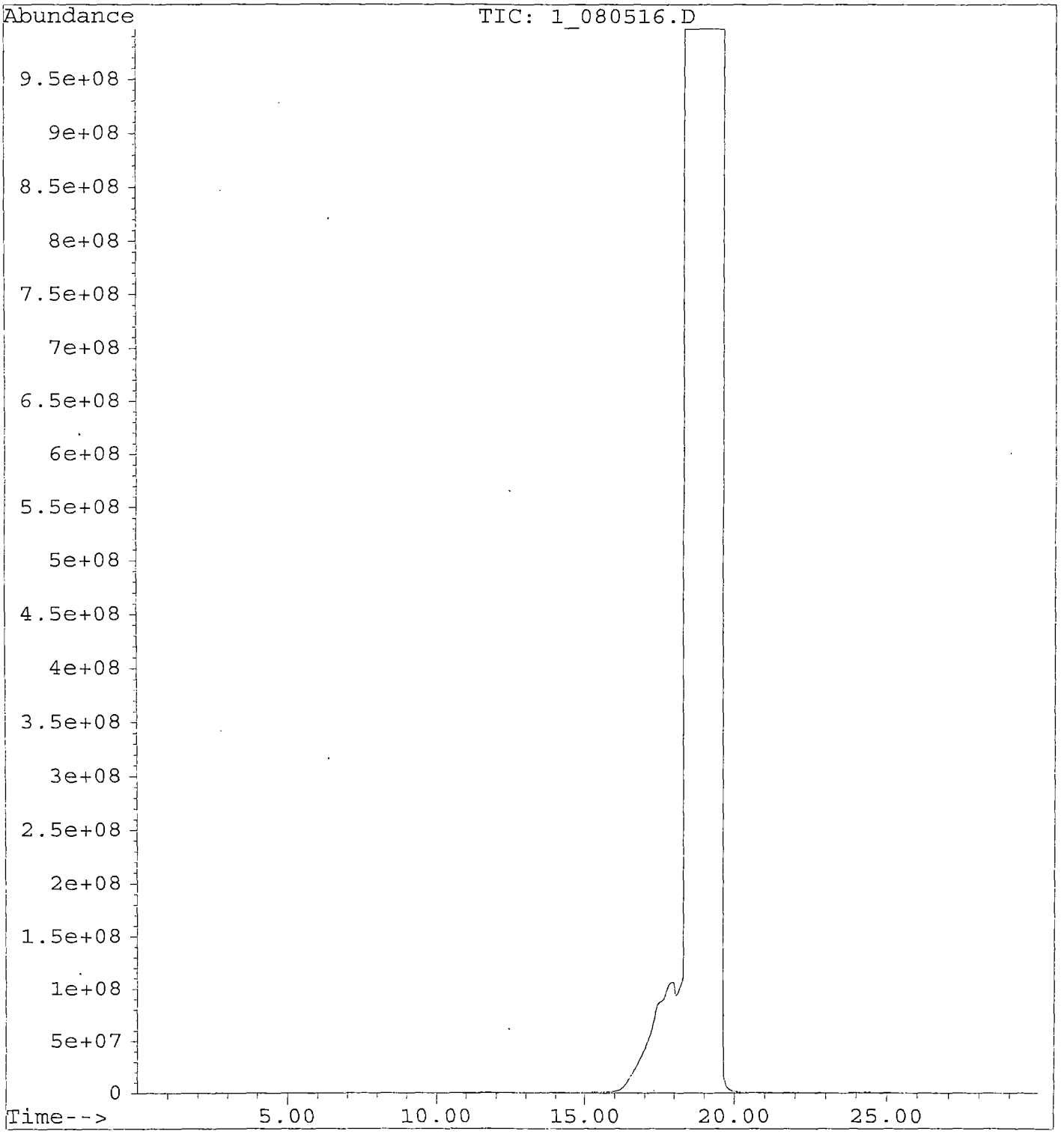
File : C:\HPCHEM\5\DATA\080501\1_080514.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 03:36 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.07-E00Y7-EPA
Misc Info : COL# 418002
Vial Number: 14



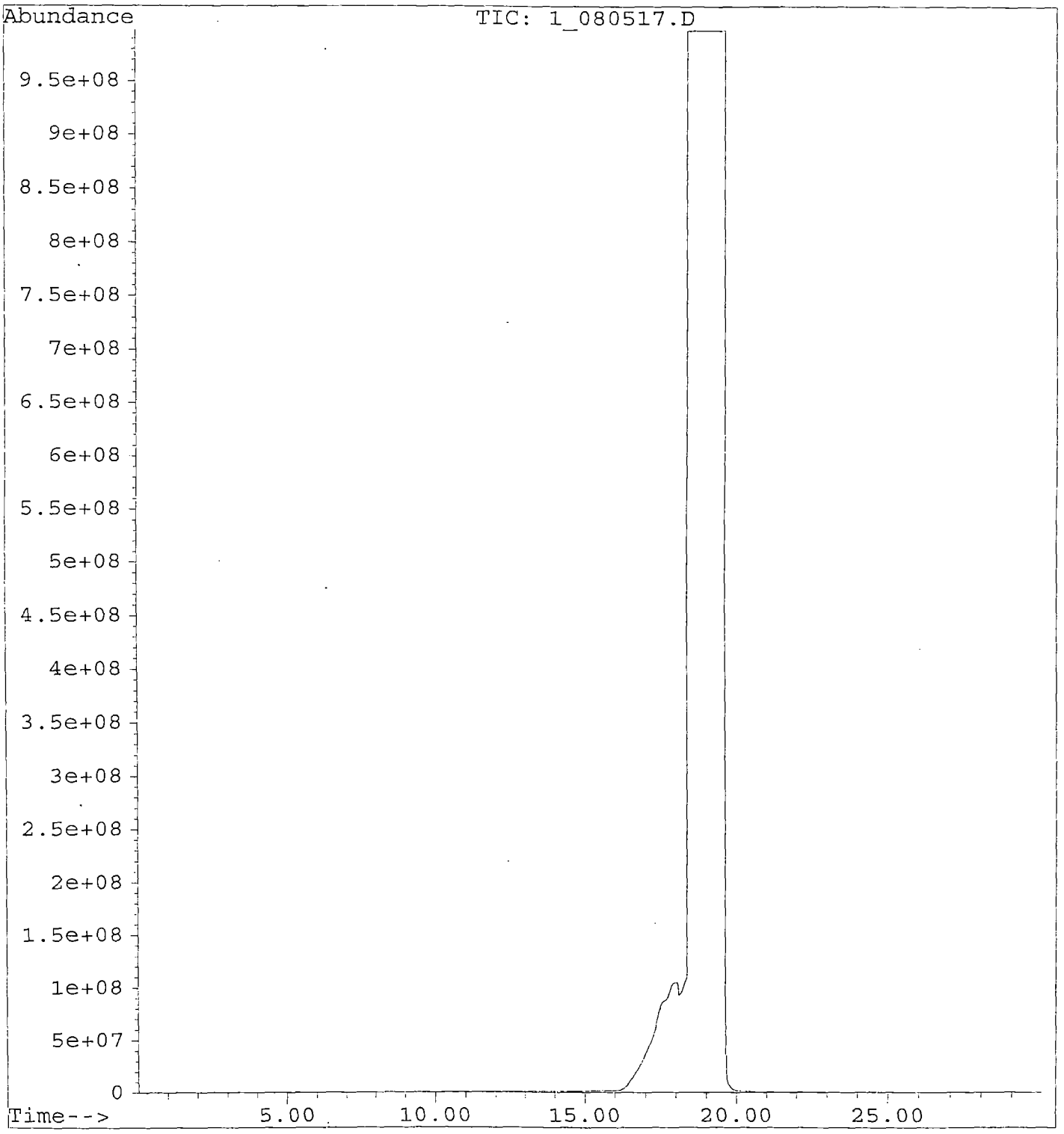
File : C:\HPCHEM\5\DATA\080501\1_080515.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 04:07 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.08-E00Y8-EPA
Misc Info : COL# 418002
Vial Number: 15



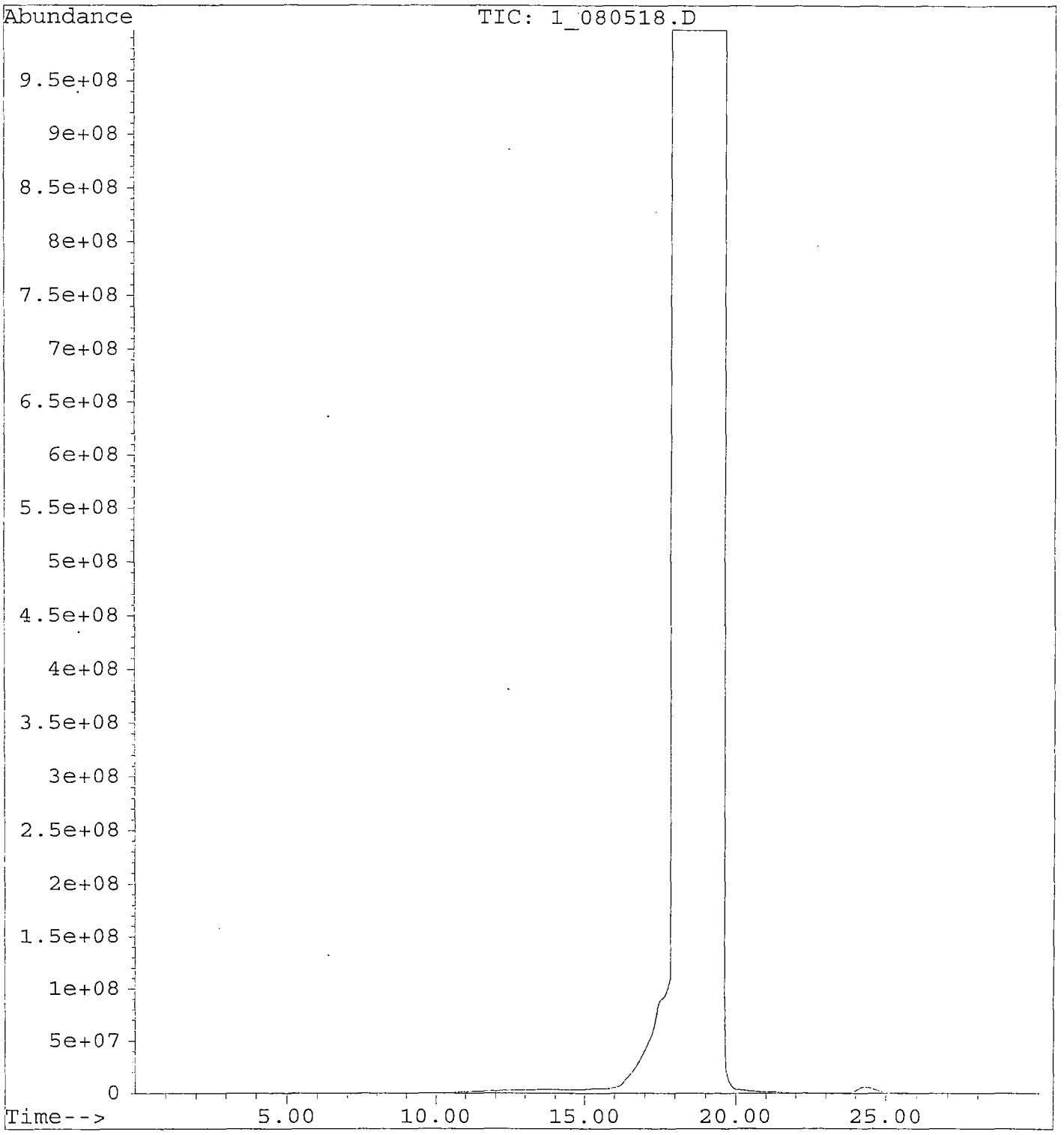
File : C:\HPCHEM\5\DATA\080501\1_080516.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 04:38 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.09-E00Y9-EPA
Misc Info : COL# 418002
Vial Number: 16



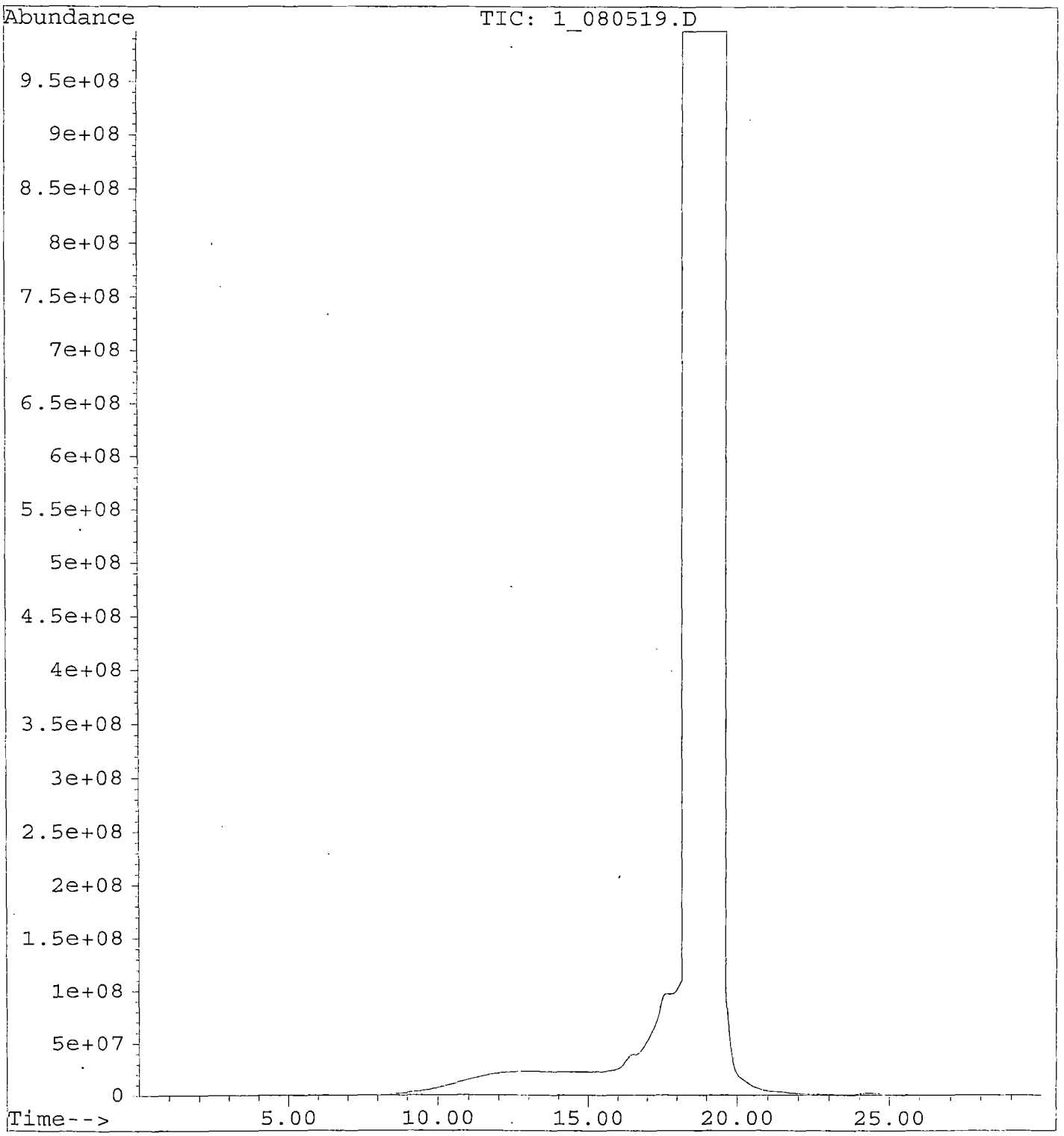
File : C:\HPCHEM\5\DATA\080501\1_080517.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 05:09 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.10-E00Z0-EPA
Misc Info : COL# 418002
Vial Number: 17



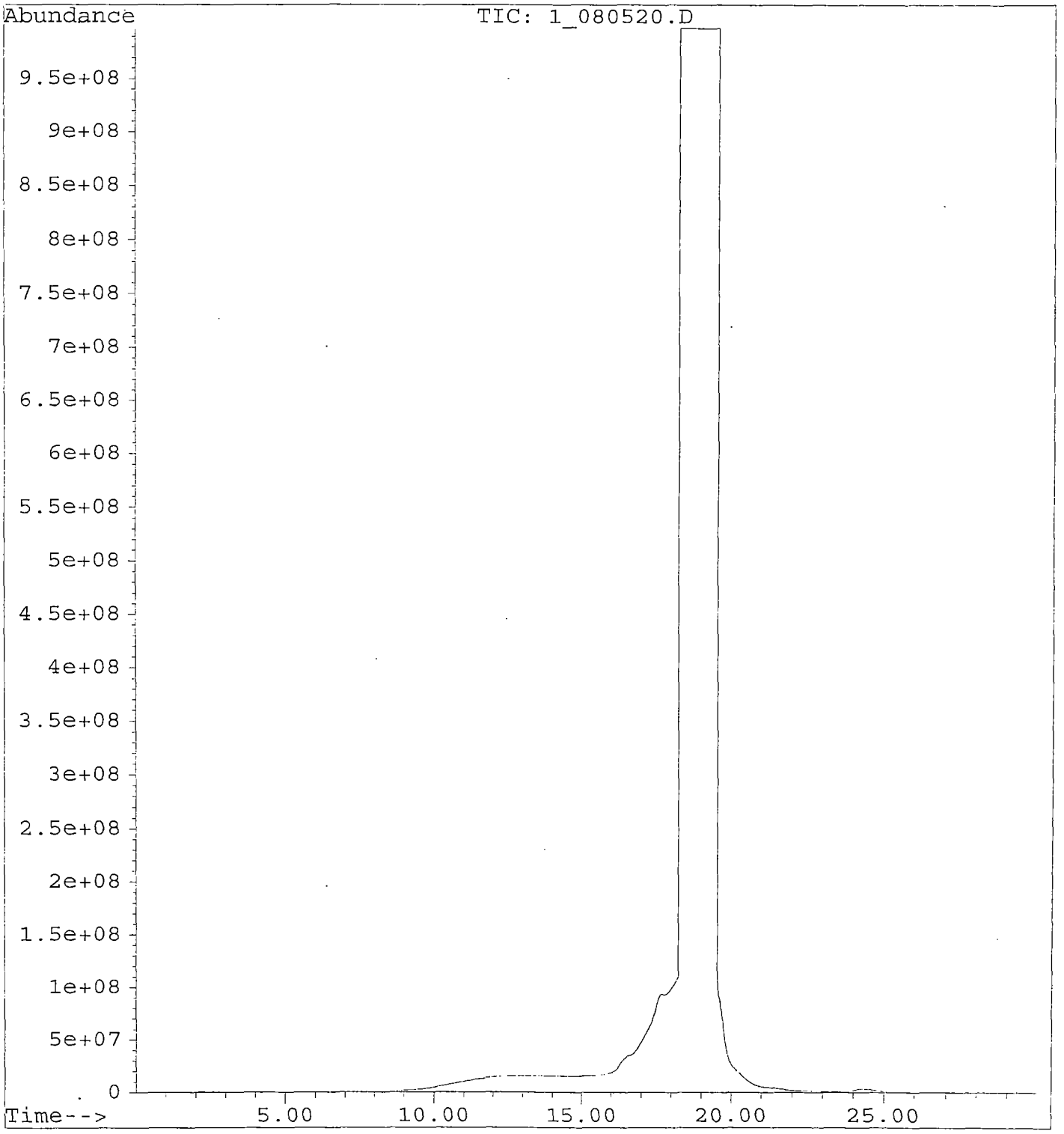
File : C:\HPCHEM\5\DATA\080501\1_080518.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 05:40 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.19-E00Z7-EPA
Misc Info : COL# 418002
Vial Number: 18



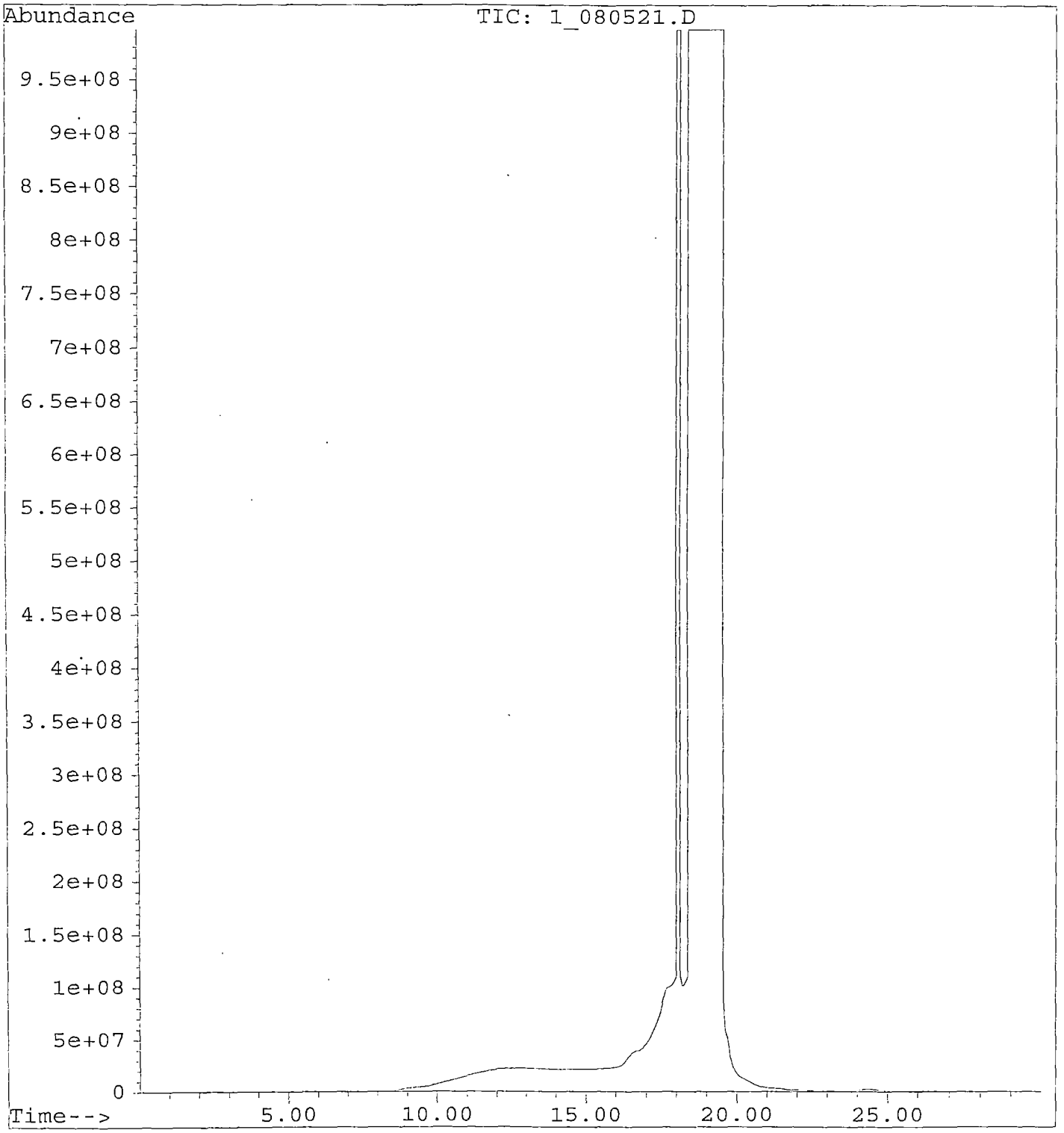
File : C:\HPCHEM\5\DATA\080501\1_080519.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 06:10 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.14-E00Z2-EPA
Misc Info : COL# 418002
Vial Number: 19



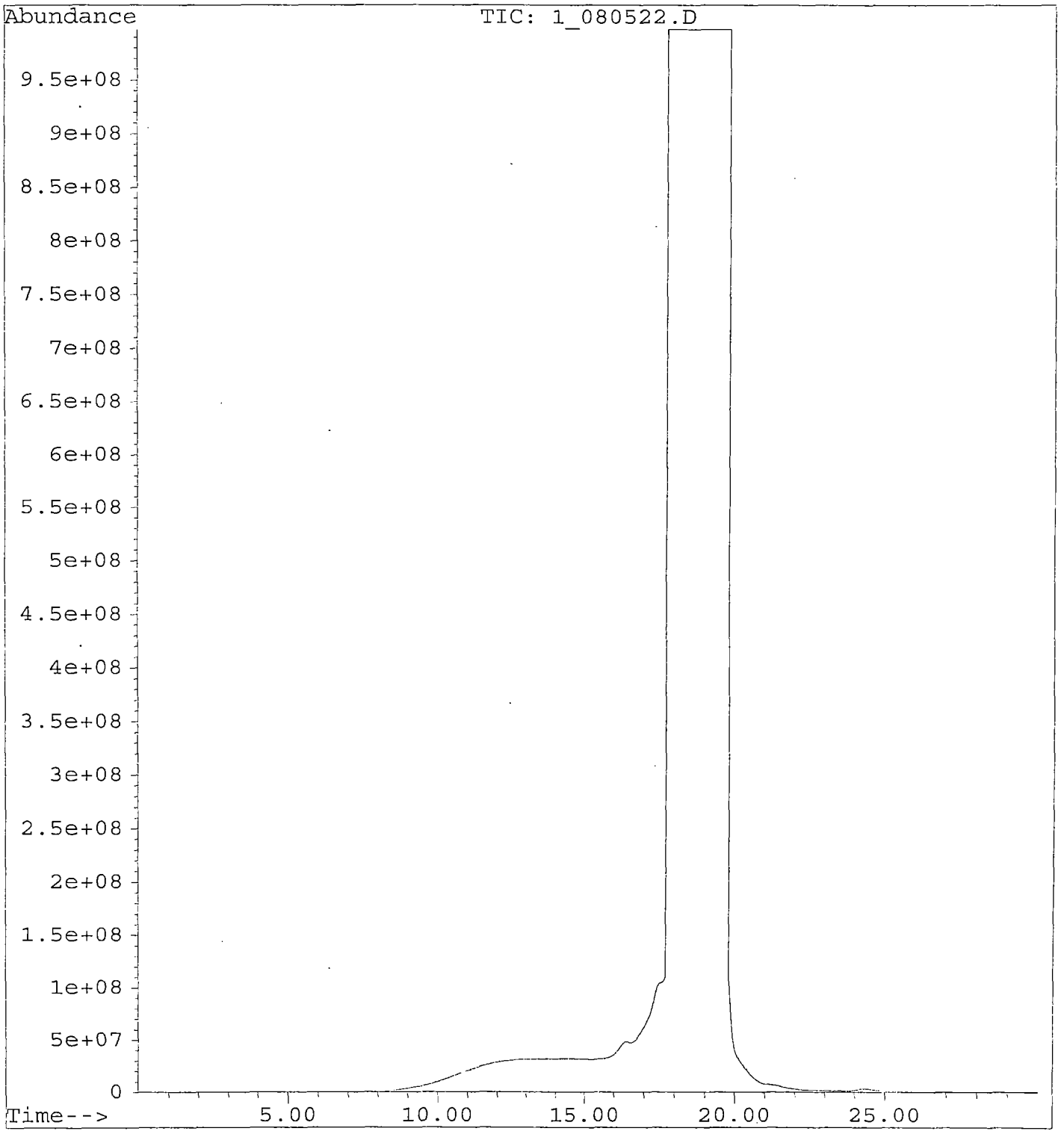
File : C:\HPCHEM\5\DATA\080501\1_080520.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 06:42 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.15-E00Z3-EPA
Misc Info : COL# 418002
Vial Number: 20



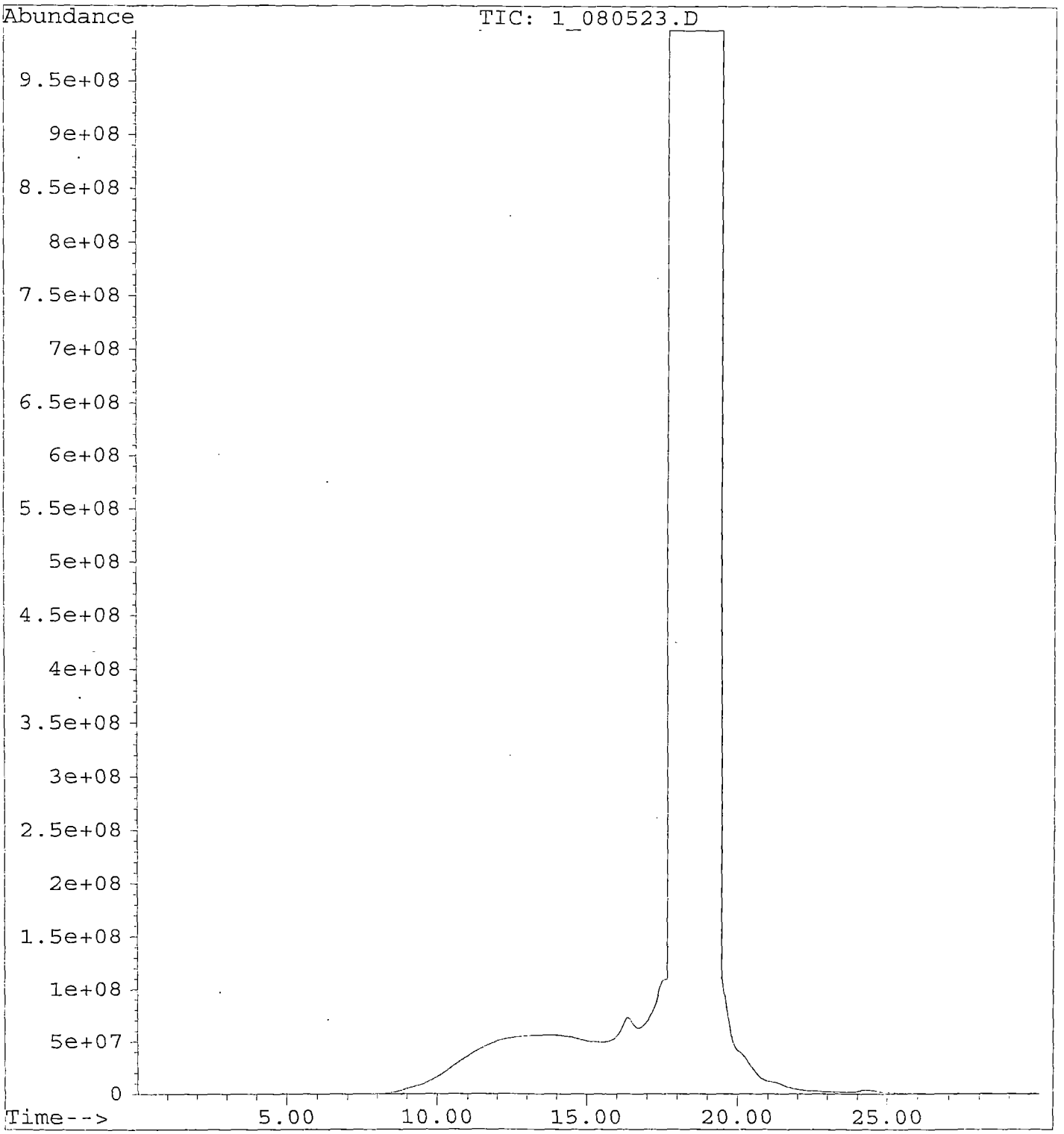
File : C:\HPCHEM\5\DATA\080501\1_080521.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 07:12 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.03-E00Y3-EPA
Misc Info : COL# 418002
Vial Number: 21



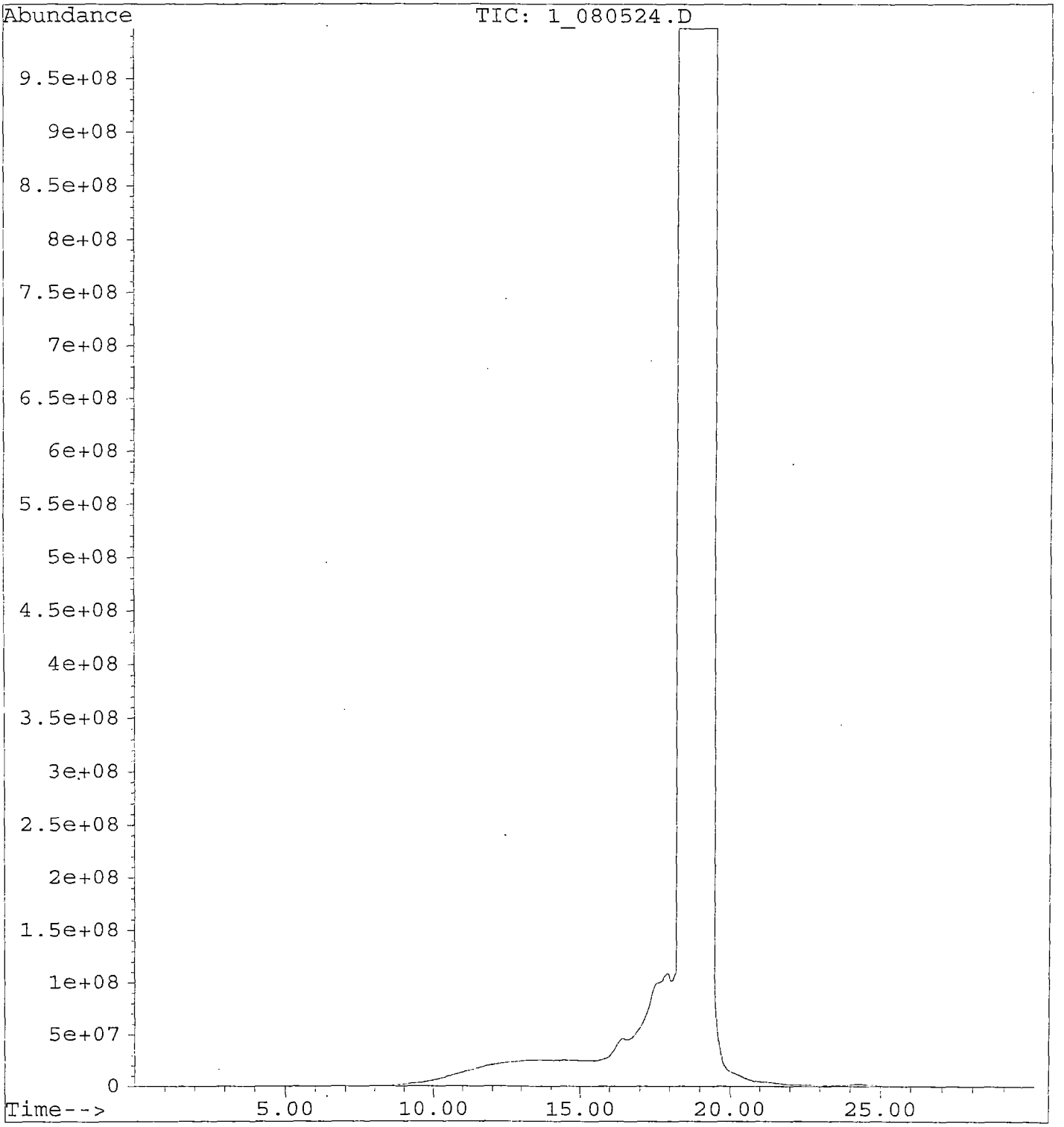
File : C:\HPCHEM\5\DATA\080501\1_080522.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 07:43 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.04-E00Y4-EPA
Misc Info : COL# 418002
Vial Number: 22



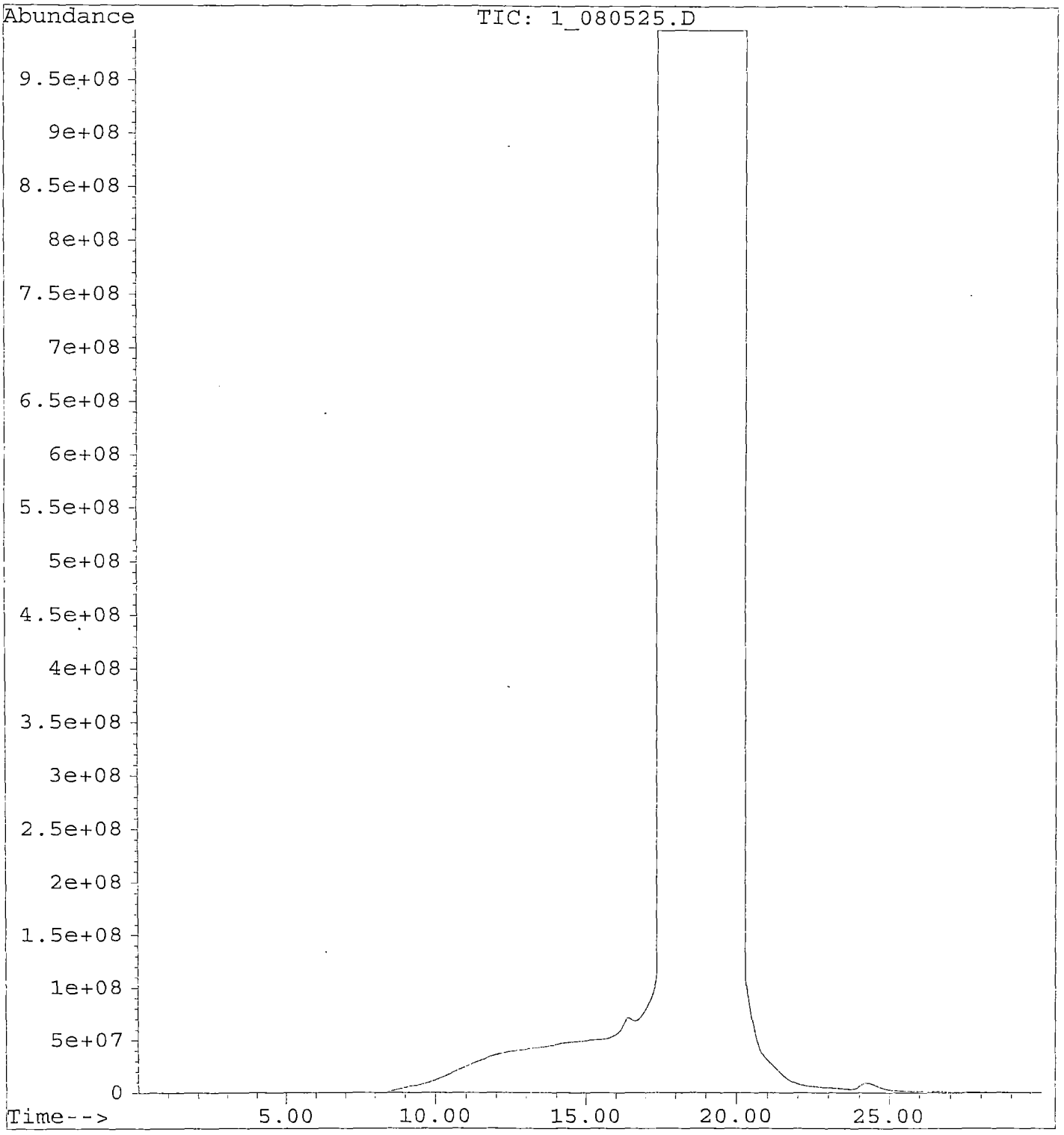
File : C:\HPCHEM\5\DATA\080501\1_080523.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 08:14 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.05-E00Y5-EPA
Misc Info : COL# 418002
Vial Number: 23



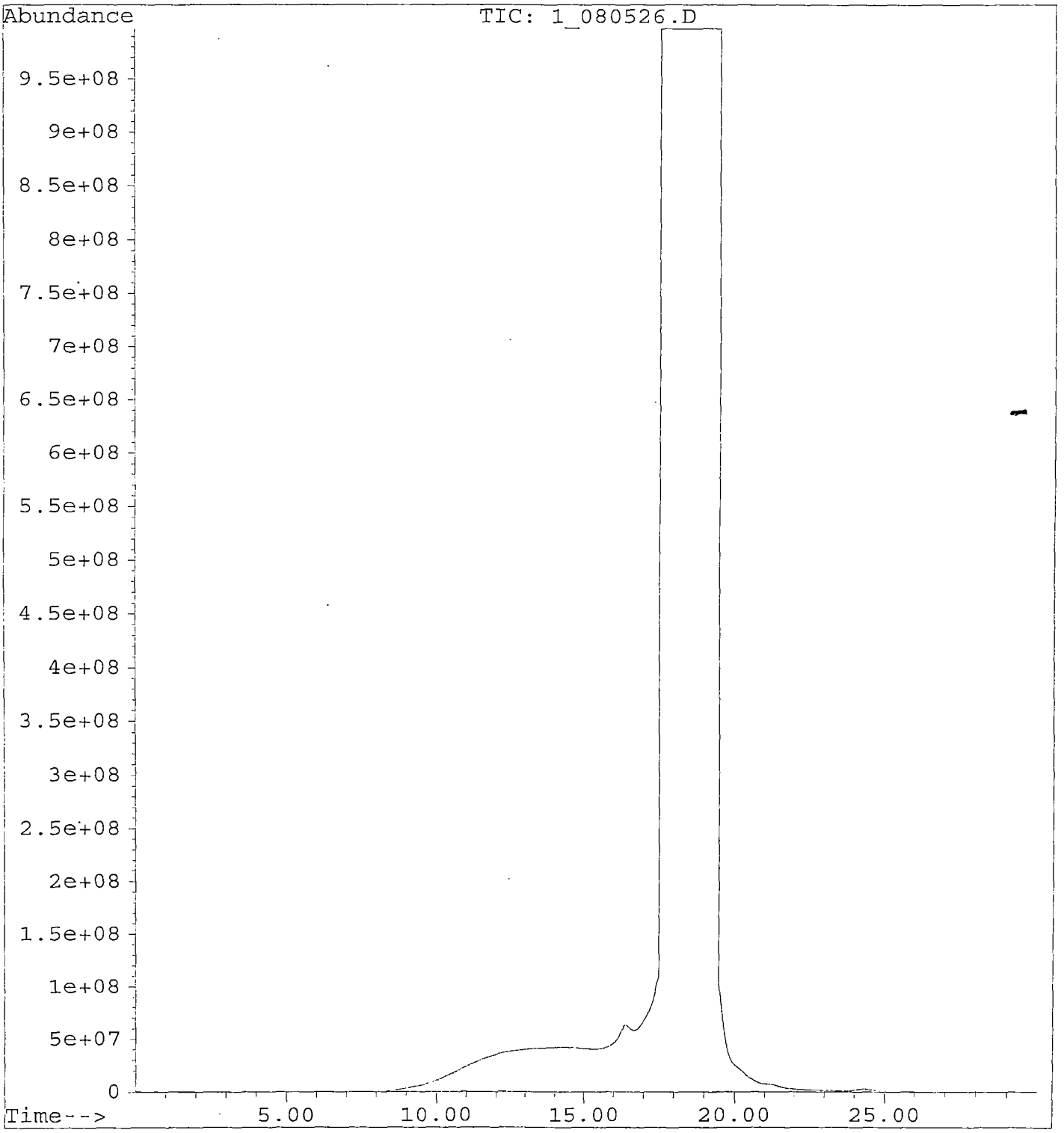
File : C:\HPCHEM\5\DATA\080501\1_080524.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 08:45 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.06-E00Y6-EPA
Misc Info : COL# 418002
Vial Number: 24



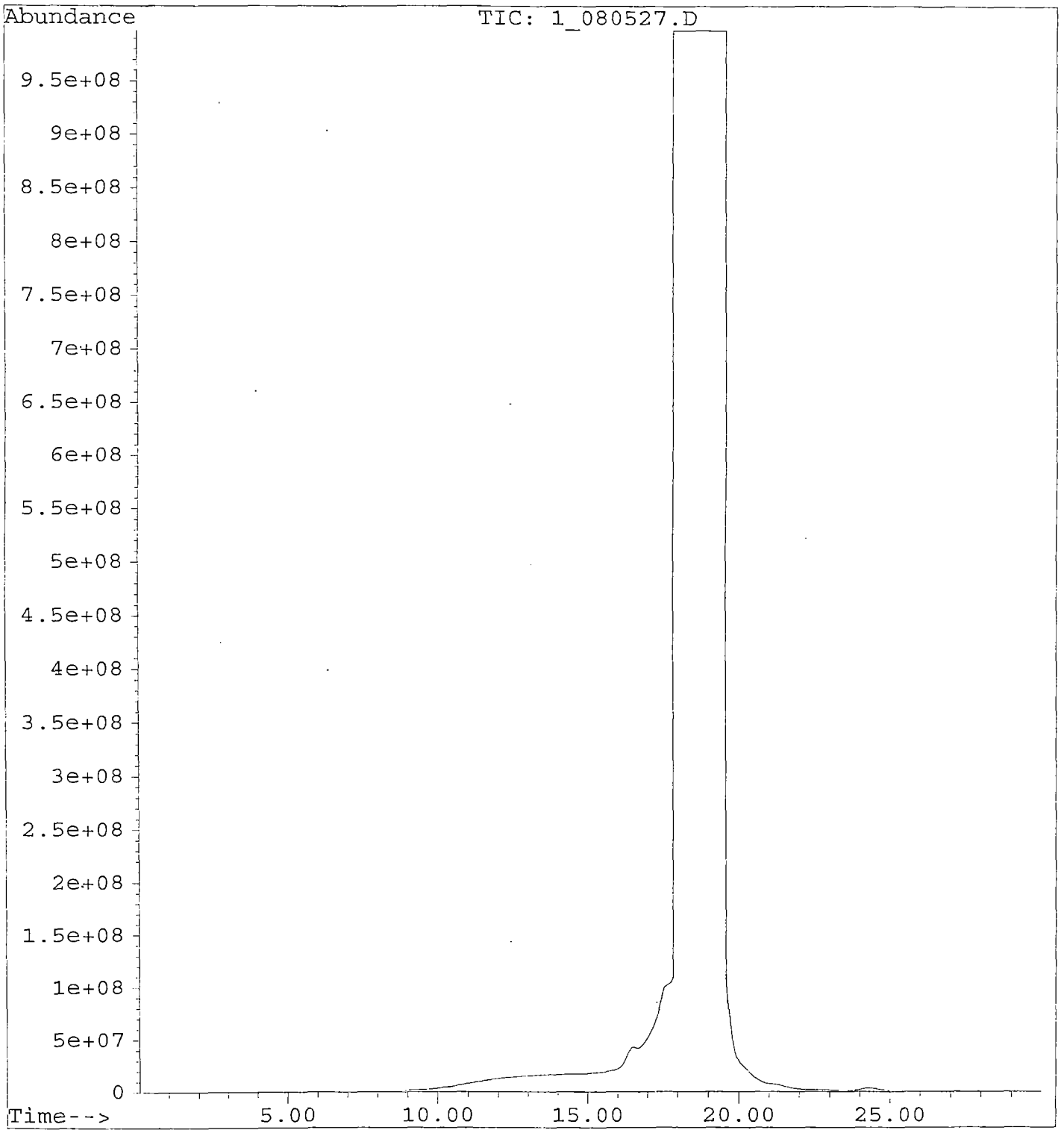
File : C:\HPCHEM\5\DATA\080501\1_080525.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 09:16 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.16-E00Z4-EPA
Misc Info : COL# 418002
Vial Number: 25



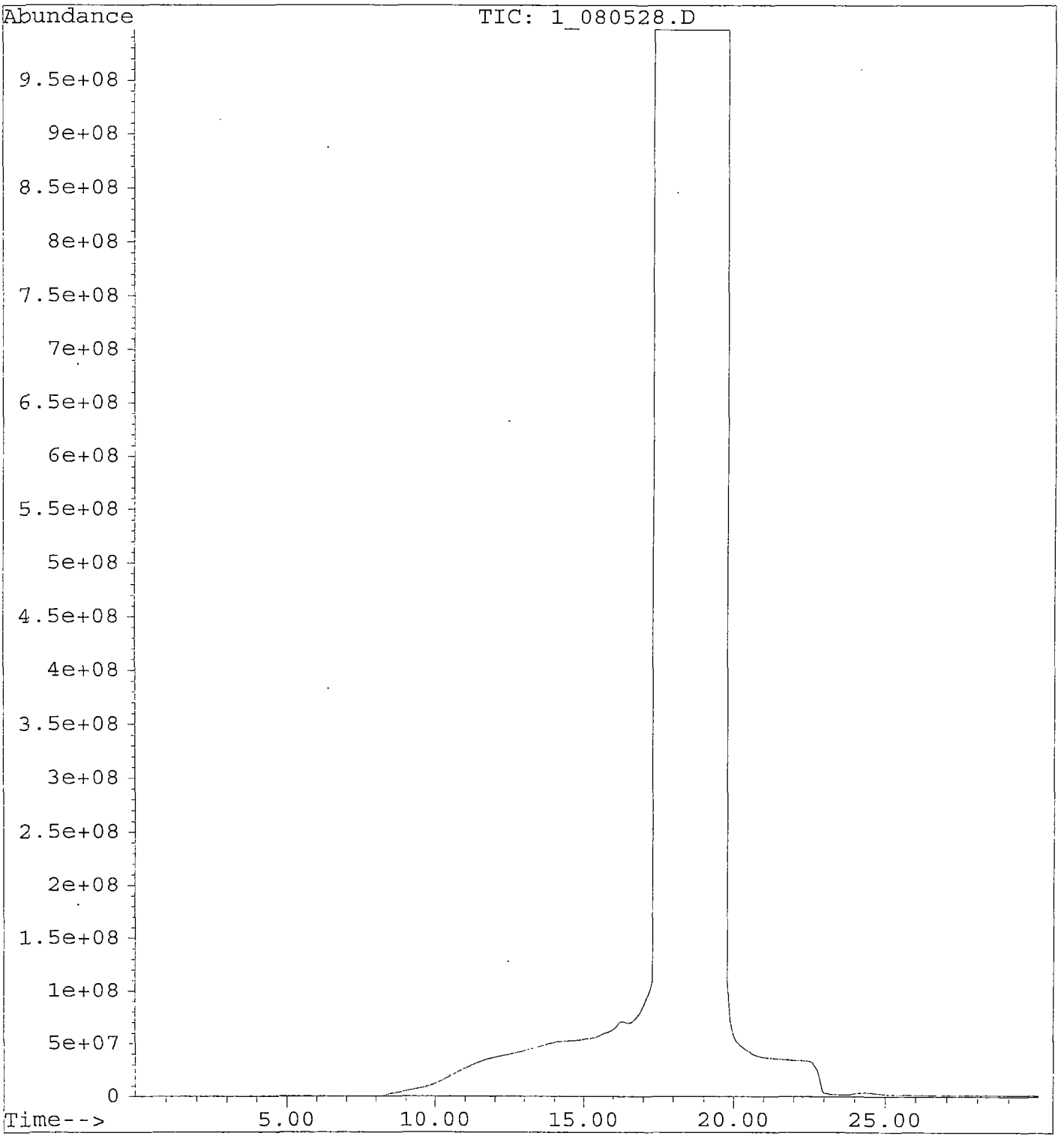
File : C:\HPCHEM\5\DATA\080501\1_080526.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 09:47 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.17-E00Z5-EPA
Misc Info : COL# 418002
Vial Number: 26



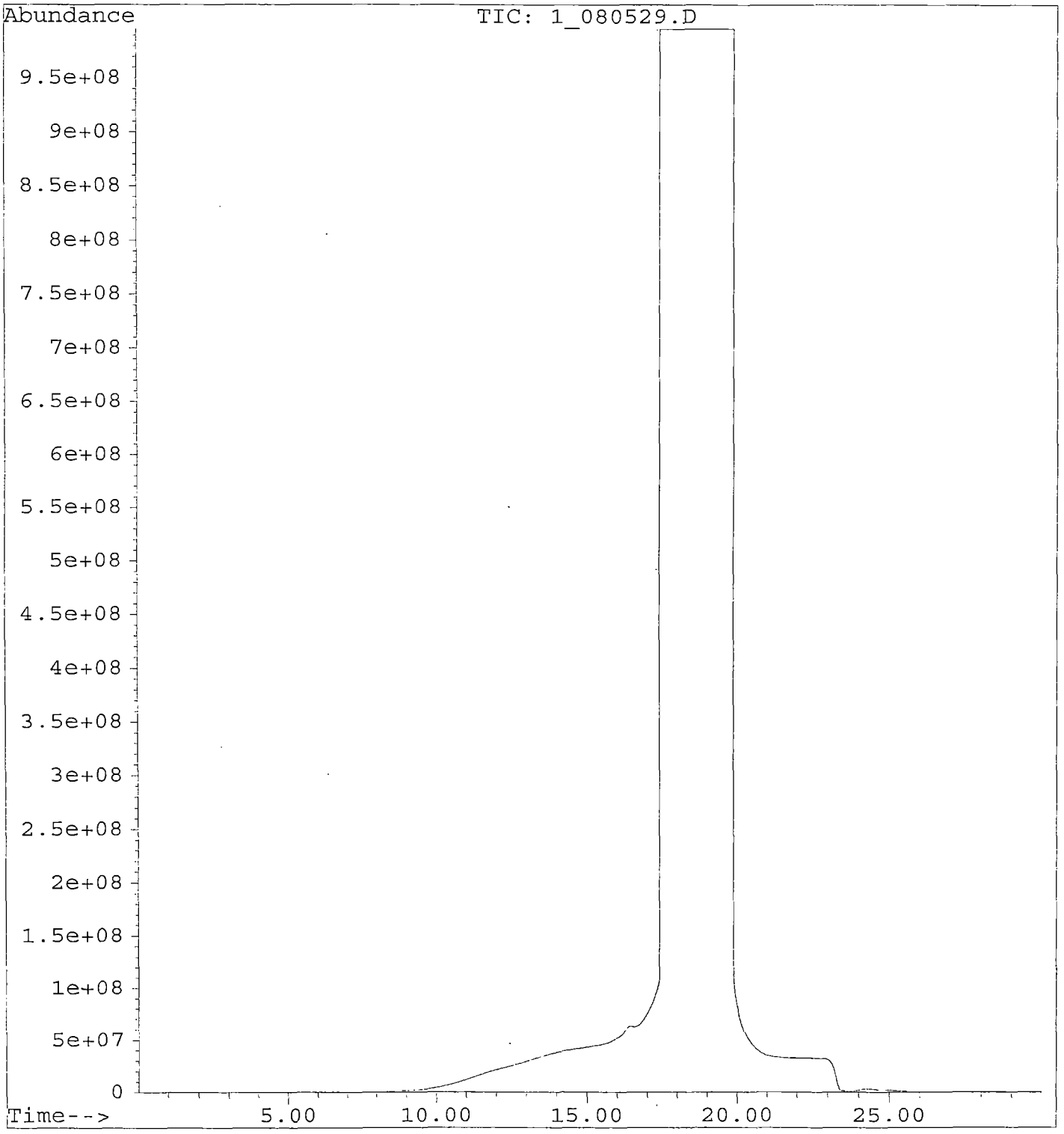
File : C:\HPCHEM\5\DATA\080501\1_080527.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 10:18 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.18-E00Z6-EPA
Misc Info : COL# 418002
Vial Number: 27



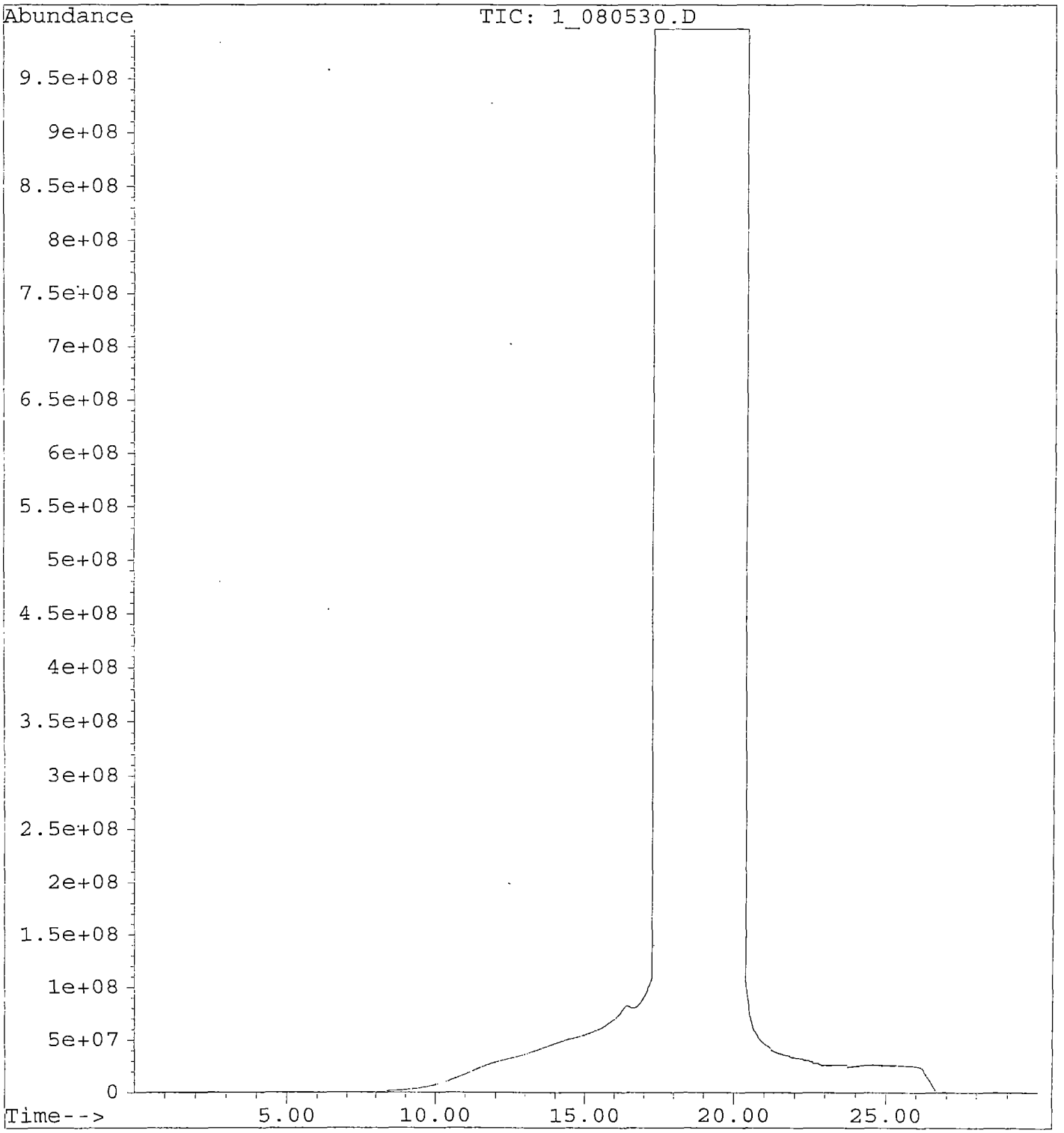
File : C:\HPCHEM\5\DATA\080501\1_080528.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 10:49 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.20-E00Z8-EPA
Misc Info : COL# 418002
Vial Number: 28



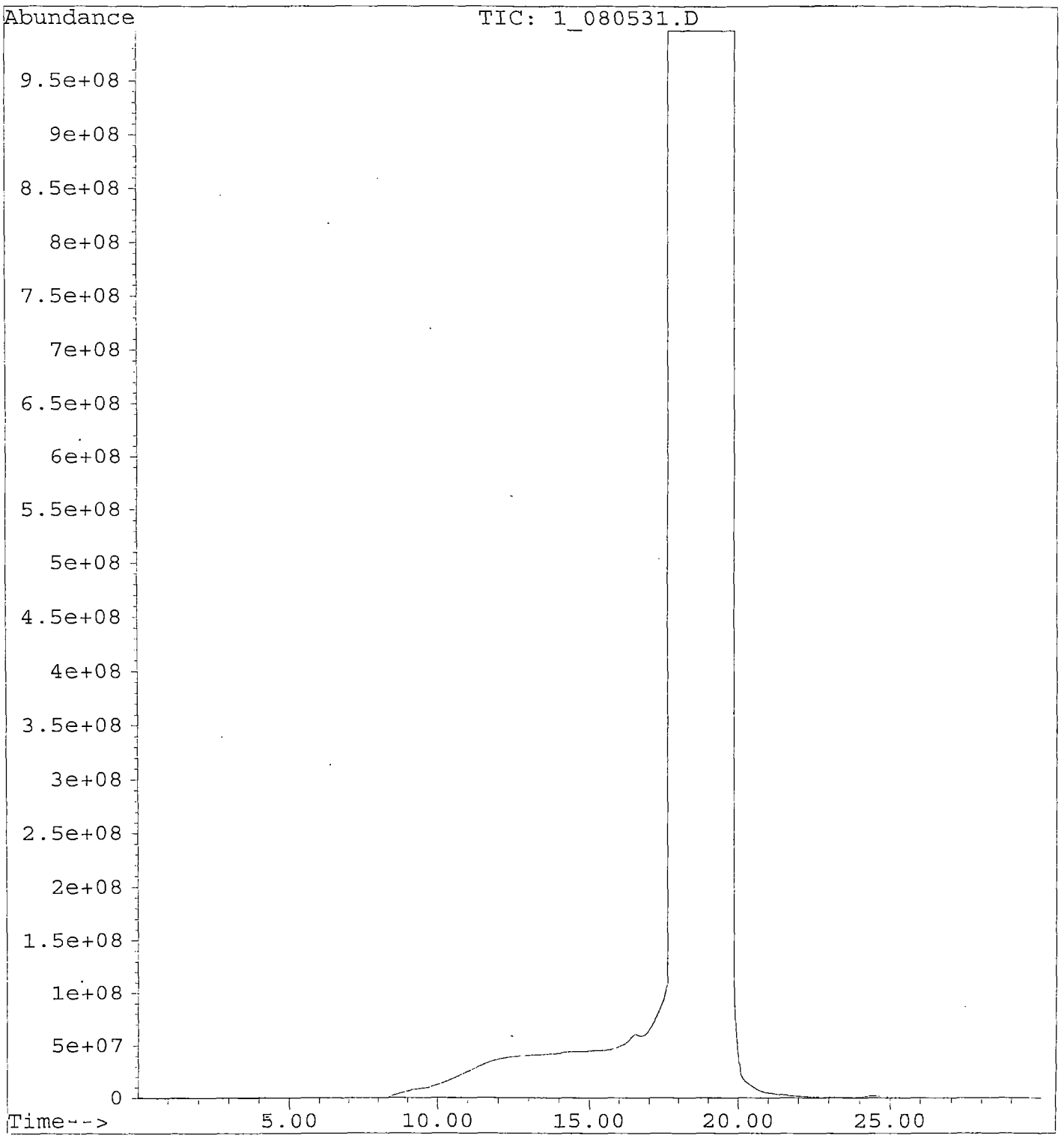
File : C:\HPCHEM\5\DATA\080501\1_080529.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 11:19 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.21-E00Z9-EPA
Misc Info : COL# 418002
Vial Number: 29



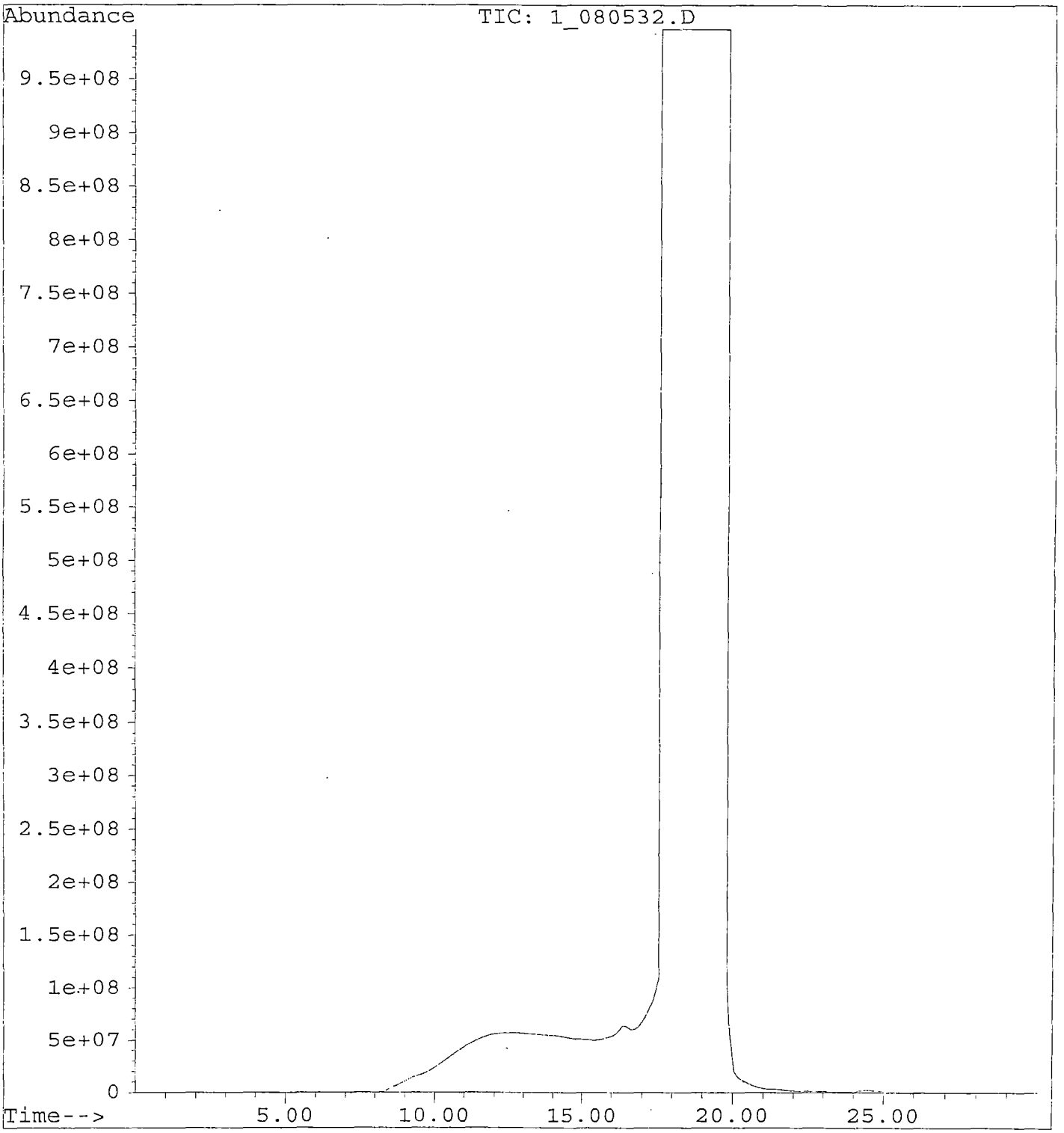
File : C:\HPCHEM\5\DATA\080501\1_080530.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 11:51 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.22-E0100-EPA
Misc Info : COL# 418002
Vial Number: 30



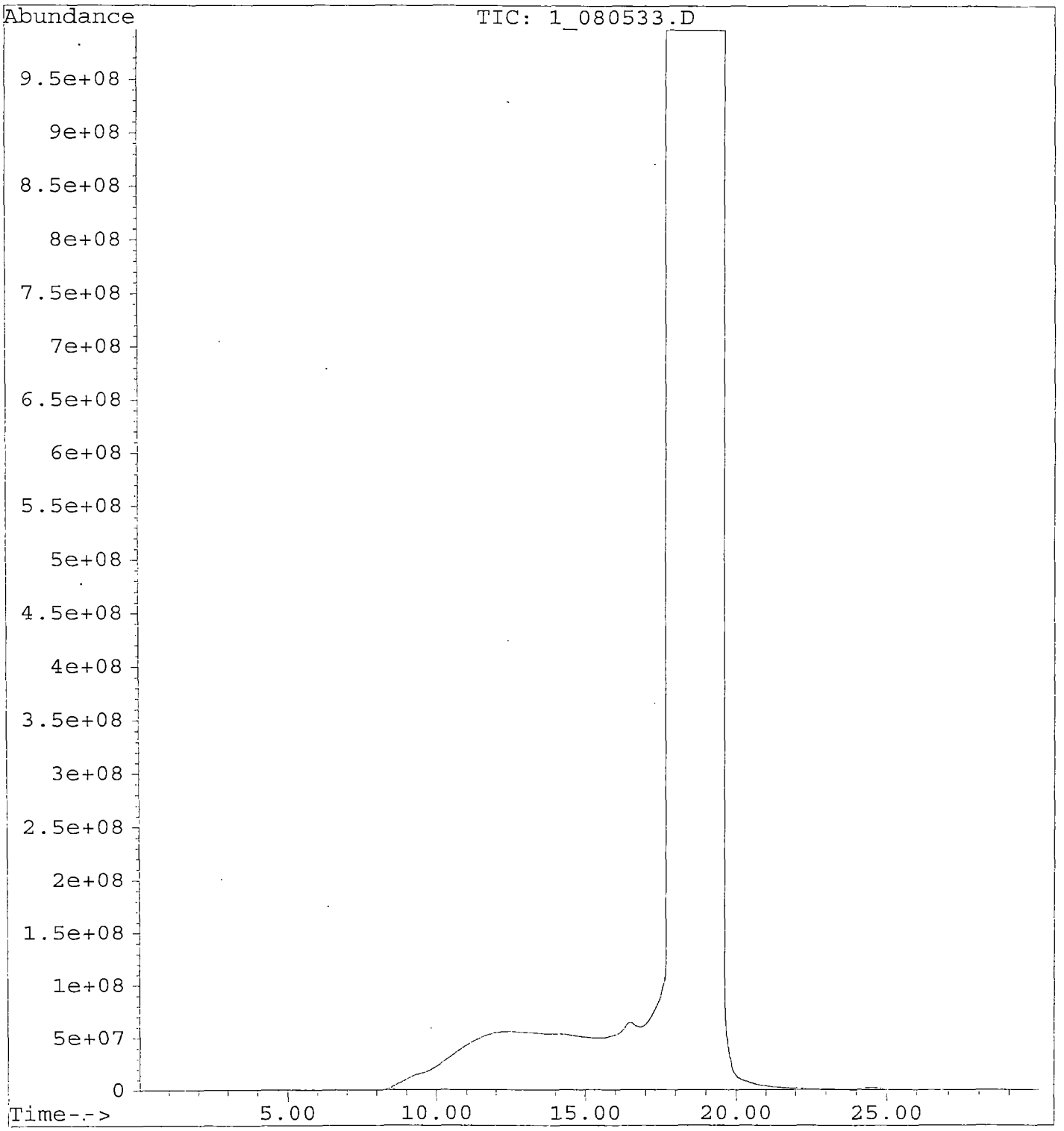
File : C:\HPCHEM\5\DATA\080501\1_080531.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 12:21 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.11-E00Z1-EPA
Misc Info : COL# 418002
Vial Number: 31



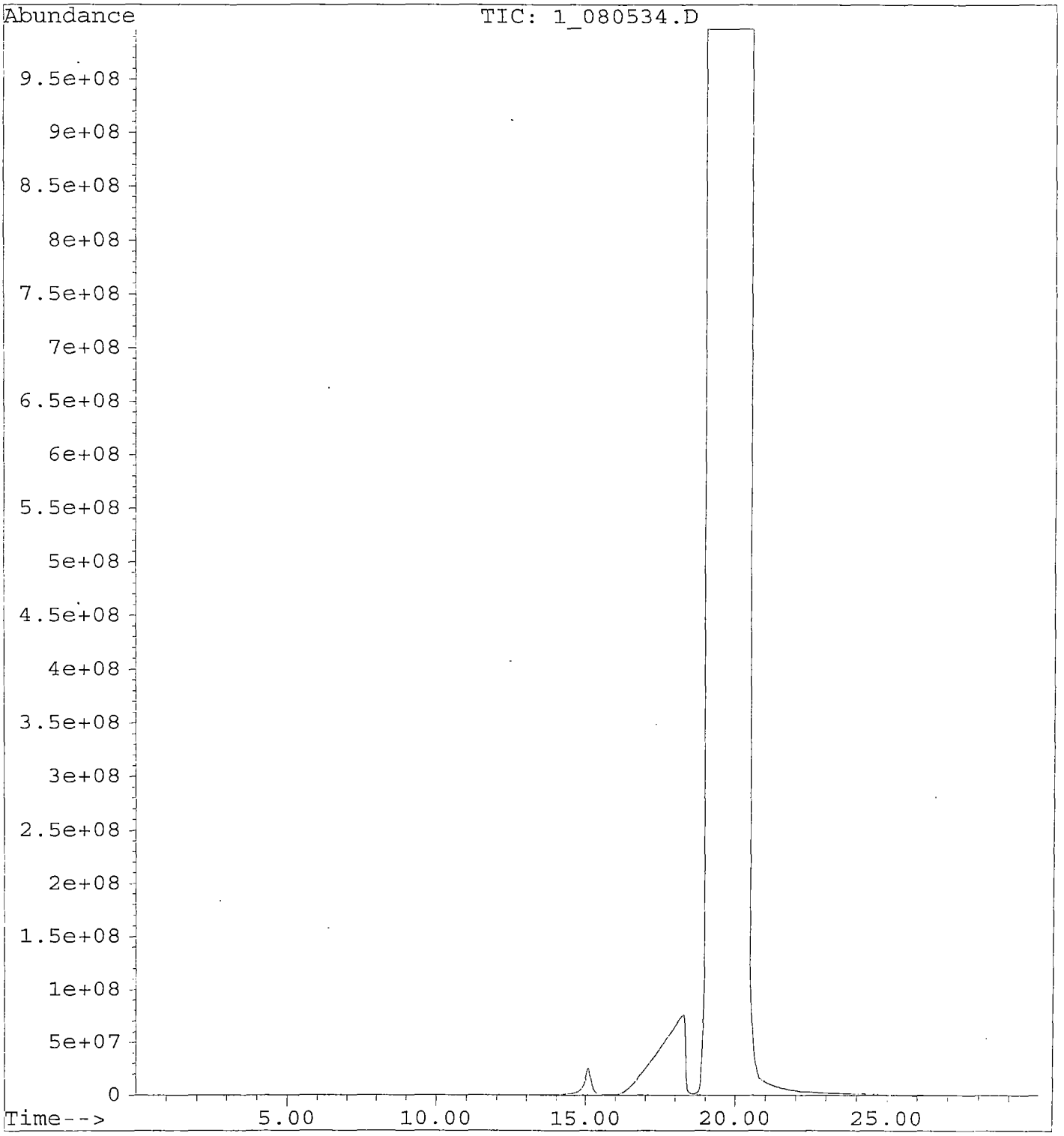
File : C:\HPCHEM\5\DATA\080501\1_080532.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 12:52 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.12-MS-E00Z1-EPA
Misc Info : COL# 418002
Vial Number: 32



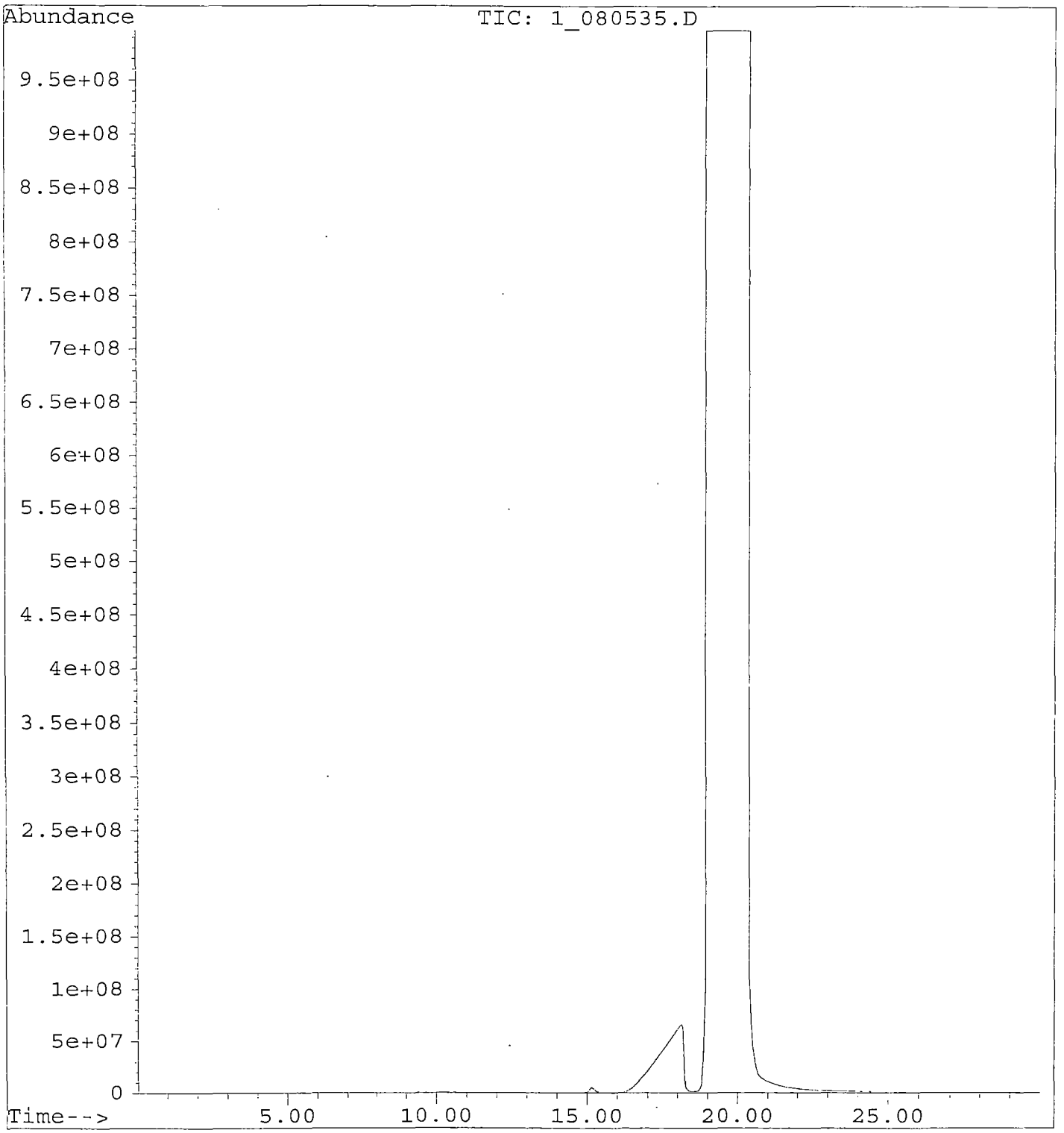
File : C:\HPCHEM\5\DATA\080501\1_080533.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 13:23 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.13-MSD-E00Z1-EPA
Misc Info : COL# 418002
Vial Number: 33



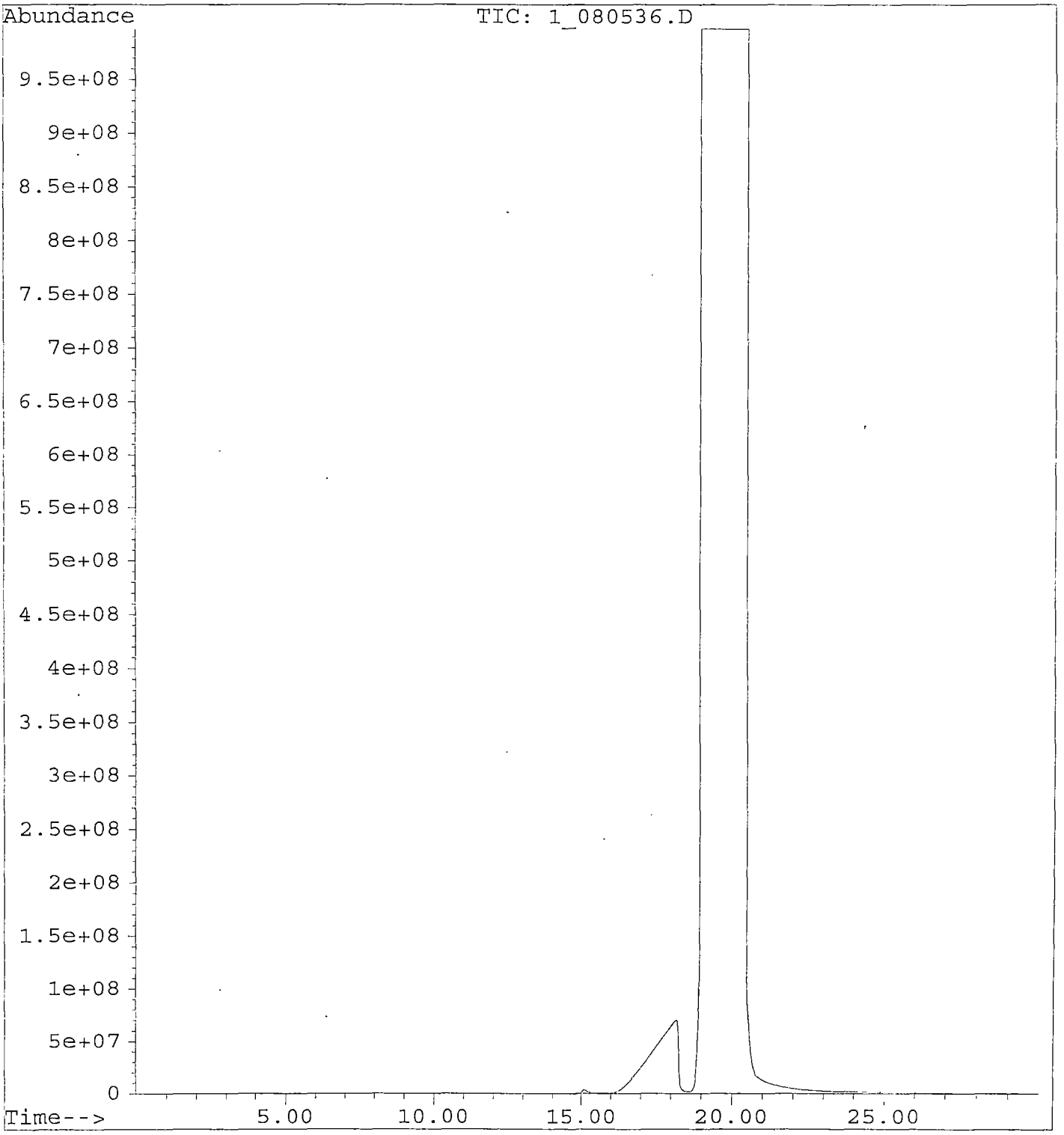
File : C:\HPCHEM\5\DATA\080501\1_080534.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 13:54 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 34



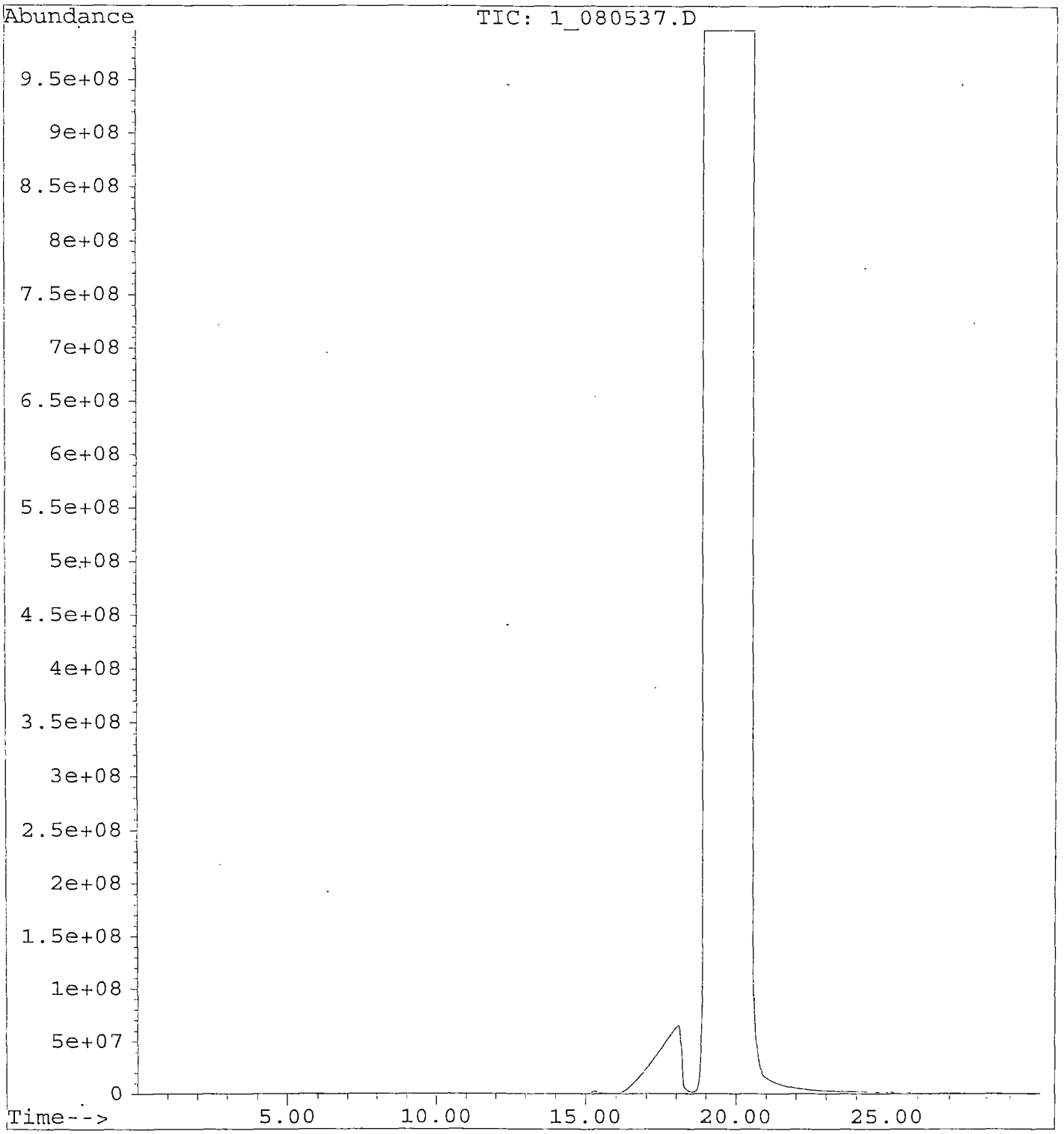
File : C:\HPCHEM\5\DATA\080501\1_080535.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 14:25 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 35



File : C:\HPCHEM\5\DATA\080501\1_080536.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 14:56 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 36

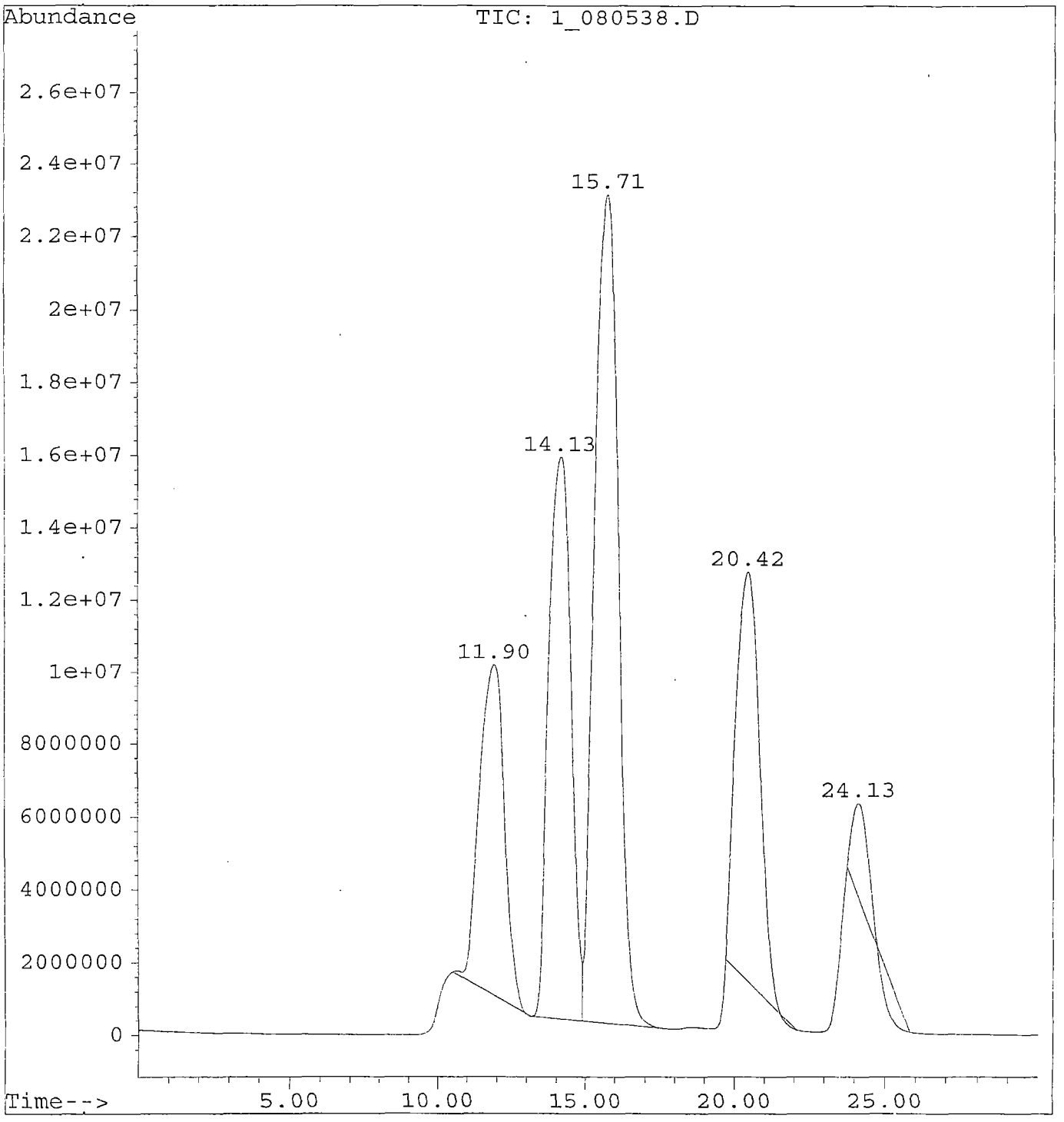


File : C:\HPCHEM\5\DATA\080501\1_080537.D
Operator : CD COL# 418002
Acquired : 06 Aug 01 15:27 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 37



Data File : C:\HPCHEM\5\DATA\080501\1_080538.D
Acq On : 06 Aug 01 03:58 PM
Sample : CAL STD (FINAL)
Misc : COL# 418002

Vial: 38
Operator: CD COL#
Inst : GPC1
Multiplr: 1.00



1) 11.90 = Corn Oil

3) 14.13 = Pthalate
4) 15.71 = Methoxychlor
5) 20.42 = Perylene

Chromatographic Resolution Report

Data File : C:\HPCHEM\5\DATA\080501\1_080538.D
Acq On : 06 Aug 01 15:58
Sample : CAL STD (FINAL)
Misc : COL# 418002

Vial: 38
Operator: CD COL# 41
Inst : GPC1
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.896	14.128	100.00
14.128	15.713	90.13
15.713	20.419	100.00
20.419	24.132	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#

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
08/29/01 00:31	22	47349.09-E03F5-EPA	1_082822	
08/29/01 01:01	23	47349.11-E03F7-EPA	1_082823	
08/29/01 01:33	24	47349.12-E03F8-EPA	1_082824	
08/29/01 02:03	25	47349.13-E03F9-EPA	1_082825	
08/29/01 02:34	26	47349.15-E03G1-EPA	1_082826	
08/29/01 03:05	27	47349.16-E03G2-EPA	1_082827	
08/29/01 03:36	28	47349.17-E03G3-EPA	1_082828	
08/29/01 04:06	29	47166.19-E00Z7-EPA	1_082829	
08/29/01 04:38	30	47349.05-E03F1-EPA	1_082830	
08/29/01 05:08	31	47349.07-E03F3-EPA	1_082831	
08/29/01 05:39	32	47349.10-E03F6-EPA	1_082832	
08/29/01 06:10	33	47349.22-E03G8-EPA	1_082833	
08/29/01 06:41	34	47349.21-E03G7-EPA	1_082834	
08/29/01 07:12	35	47349.14-E03G0-EPA	1_082835	
08/29/01 07:43	36	47349.19-E03G5-EPA	1_082836	
08/29/01 08:14	37	47349.18-E03G4-EPA	1_082837	
08/29/01 08:45	38	47349.20-E03G6-EPA	1_082838	
08/29/01 09:16	39	47166.21-E00Z9-EPA	1_082839	
08/29/01 09:46	40	SB	1_082840	
08/29/01 10:17	41	SB	1_082841	
08/29/01 10:48	42	SB	1_082842	

9/7/2001

Verification Signature/Date

9/6/01

Analyst Signature/Date

Book: OE-102-16-RUN-

Page No.: 23

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#

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
08/28/01 13:38	1	CAL STD (INITIAL)	1_082801	
08/28/01 14:10	2	SB	1_082802	
08/28/01 14:41	3	SB	1_082803	
08/28/01 15:12	4	SB	1_082804	
08/28/01 15:43	5	SB	1_082805	
08/28/01 16:14	6	SB#082801A (PEST)	1_082806	
08/28/01 16:45	7	SB#082801B (PEST)	1_082807	
08/28/01 17:16	8	BL0827SE-EPA	1_082808	
08/28/01 17:47	9	BB0827SE-EPA	1_082809	
08/28/01 18:19	10	BL0823SC-EPA	1_082810	
08/28/01 18:50	11	BB0823SC-EPA	1_082811	
08/28/01 19:21	12	LC0827SE-EPA	1_082812	
08/28/01 19:52	13	LD0827SE-EPA	1_082813	
08/28/01 20:23	14	LC0823SC-EPA	1_082814	
08/28/01 20:54	15	LD0823SC-EPA	1_082815	
08/28/01 21:25	16	47349.01-E03E9-EPA	1_082816	
08/28/01 21:56	17	47349.02-MS-E03E9-EPA	1_082817	
08/28/01 22:27	18	47349.03-MSD-E03E9-EPA	1_082818	
08/28/01 22:57	19	47349.04-E03F0-EPA	1_082819	
08/28/01 23:29	20	47349.06-E03F2-EPA	1_082820	
08/29/01 00:00	21	47349.08-E03F4-EPA	1_082821	

9/7/2001

Verification Signature/Date

9/6/01

Analyst Signature/Date

Book: OE-102-16-RUN-

Page No.: 22

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#

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
08/29/01 11:19	43	SB	1_082843	
08/29/01 11:50	44	CAL STD (FINAL)	1_082844	

Compound	Initial RT	Final RT	% Difference
Phthalate	14.25	14.22	0.21
Methoxychlor	15.86	15.82	0.25
Perylene	20.60	20.55	0.24

9/7/2001

Verification Signature/Date

9/6/01

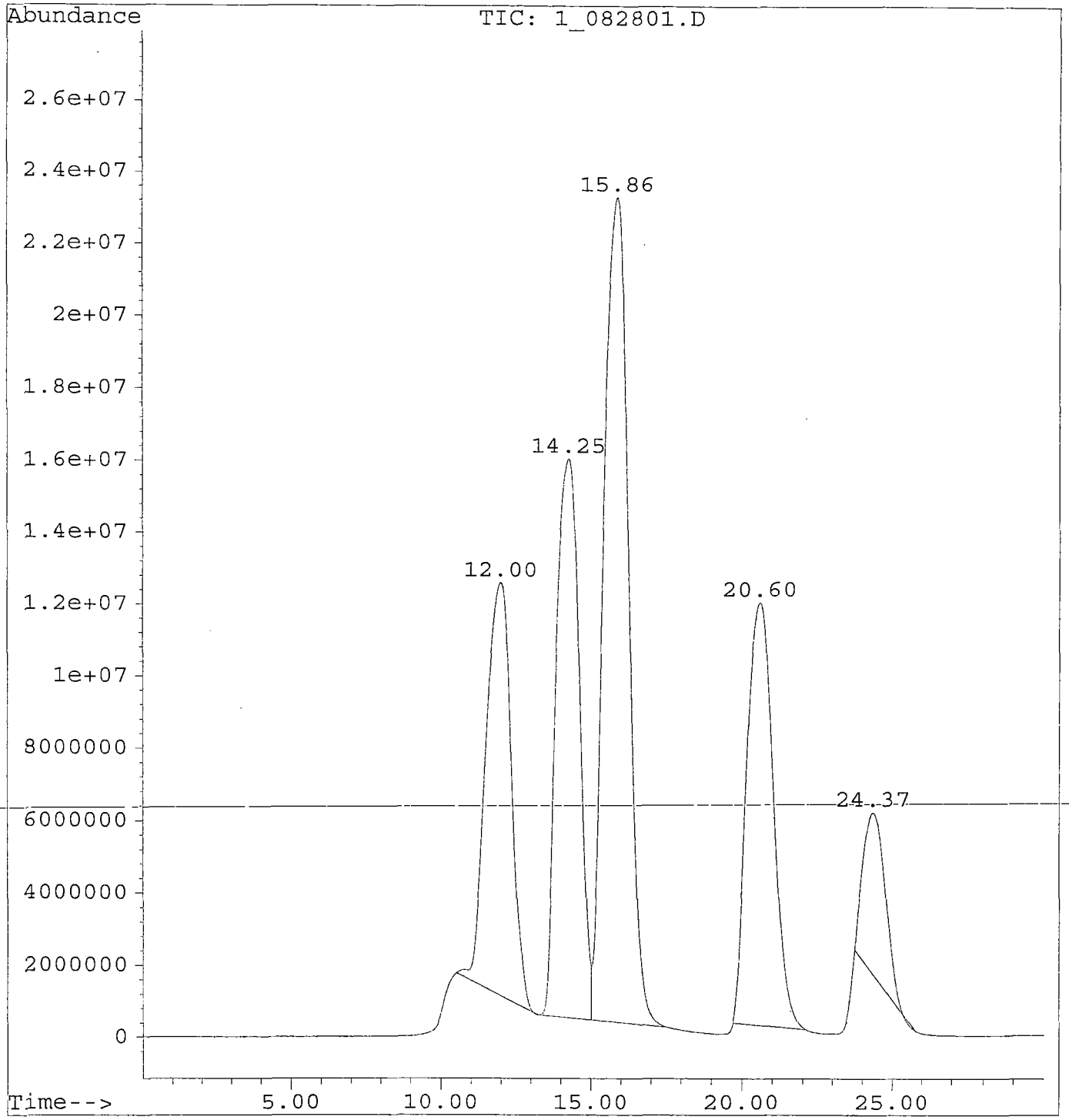
Analyst Signature/Date

Book: OE-102-16-RUN-

Page No.: 24

Data File : C:\HPCHEM\5\DATA\082801\1_082801.D
Acq On : 28 Aug 01 13:38
Sample : CAL STD (INITIAL)
Misc : COL# 418002

Vial: 1
Operator: CR COL#
Inst : GPC1
Multiplr: 1.00



1) 12.00 = Corn Oil
2) 14.25 = Pthalate
3) 15.86 = Methoxychlor
4) 20.60 = Perylene
5) 24.37 = Sulfur

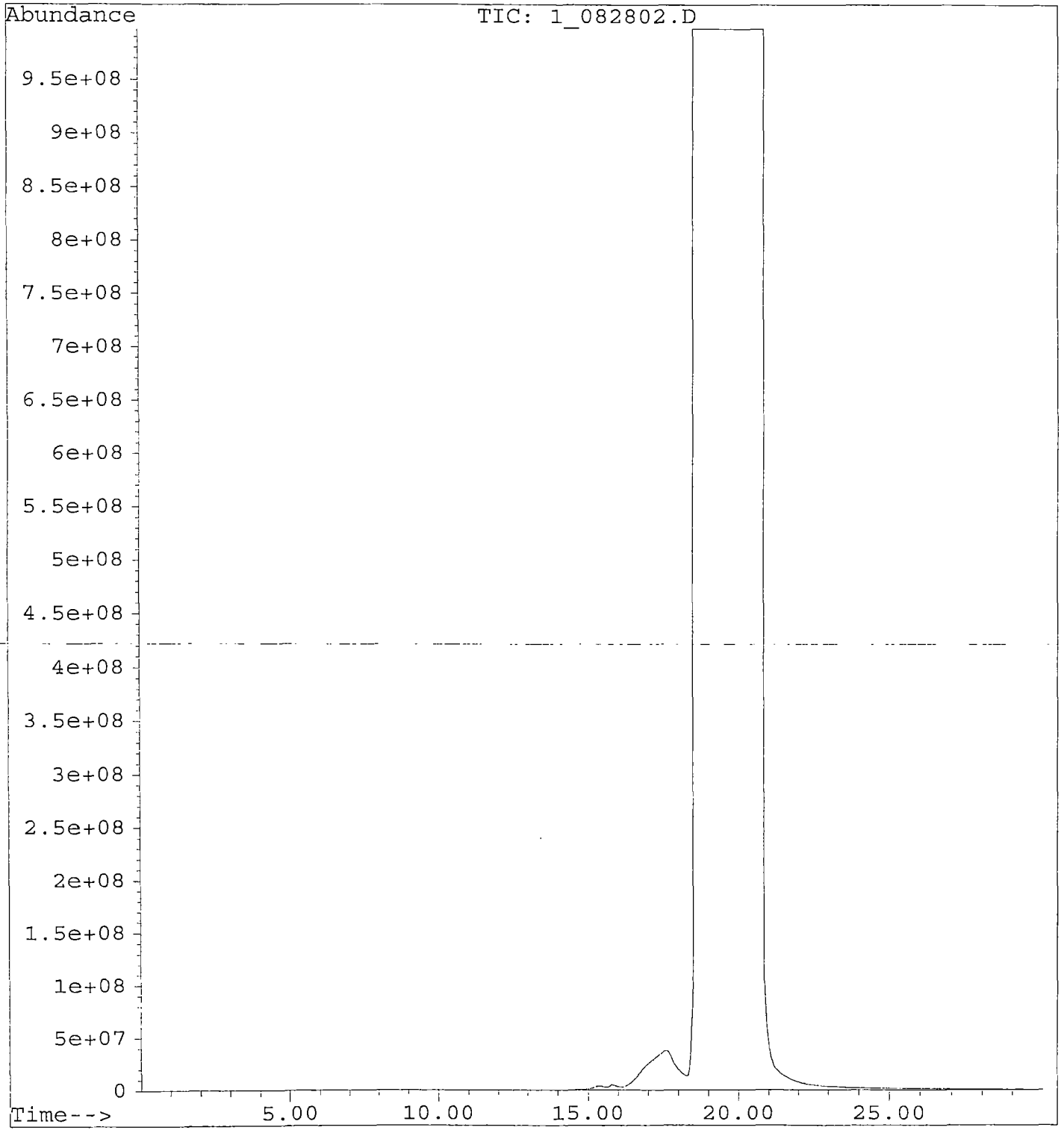
Chromatographic Resolution Report

Data File : C:\HPCHEM\5\DATA\082801\1_082801.D Vial: 1
Acq On : 28 Aug 01 13:38 Operator: CR COL# 41
Sample : CAL STD (INITIAL) Inst : GPC1
Misc : COL# 418002 Multiplr: 1.00

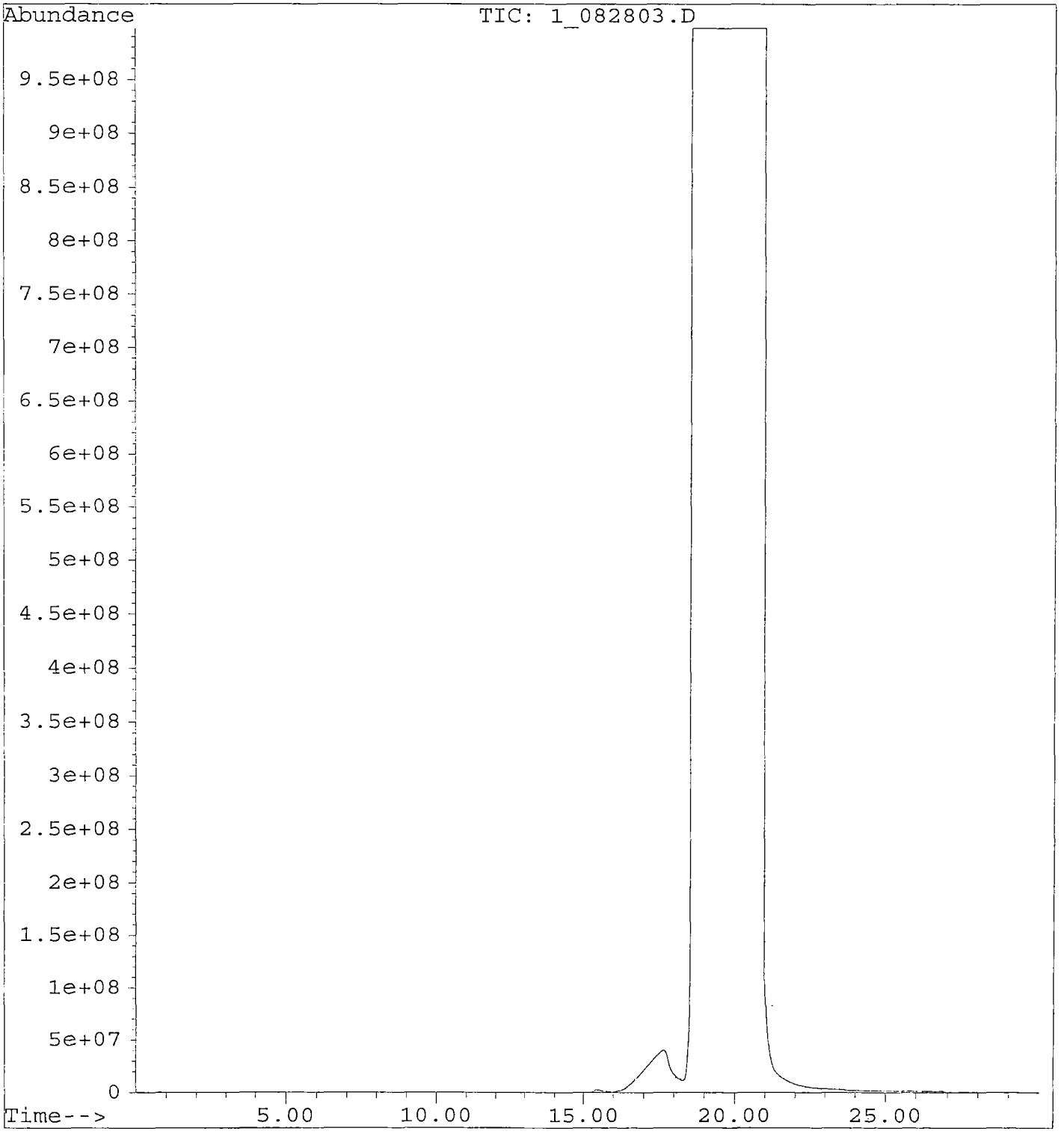
Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.995	14.253	100.00
14.253	15.858	90.72
15.858	20.596	100.00
20.596	24.369	100.00

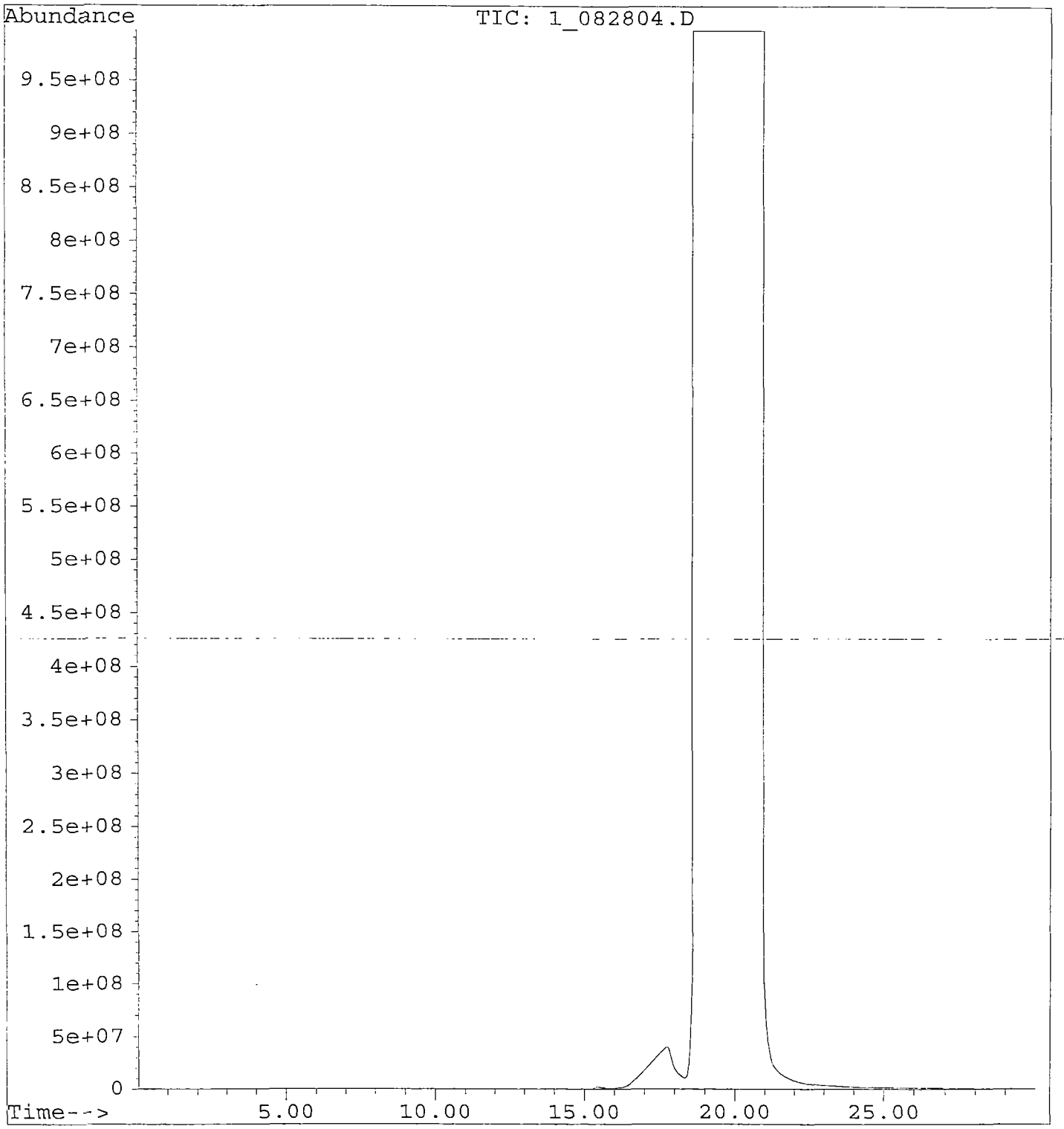
File : C:\HPCHEM\5\DATA\082801\1_082802.D
Operator : CR COL# 418002
Acquired : 28 Aug 01 14:10 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 2



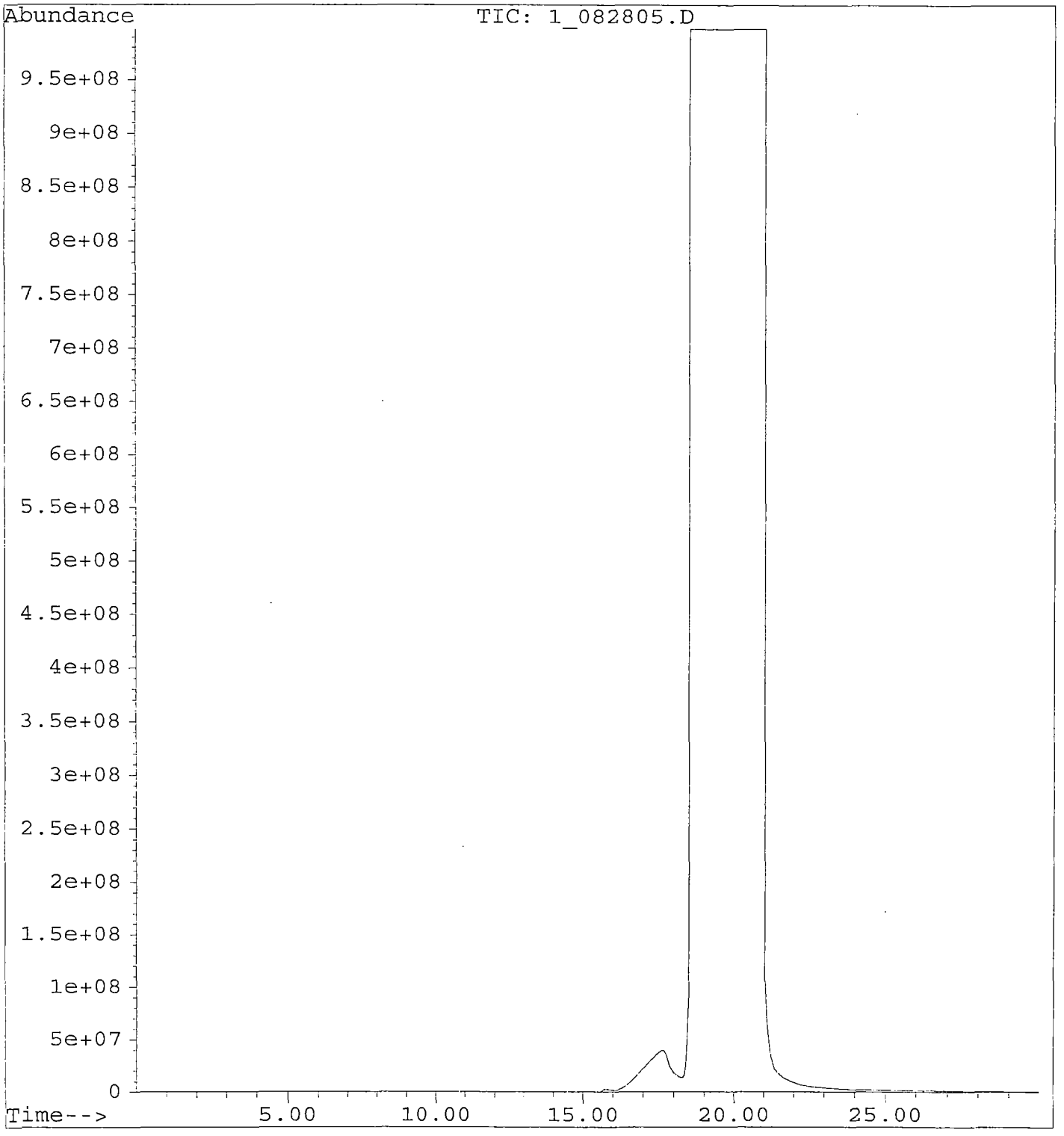
File : C:\HPCHEM\5\DATA\082801\1_082803.D
Operator : CR COL# 418002
Acquired : 28 Aug 01 14:41 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 3



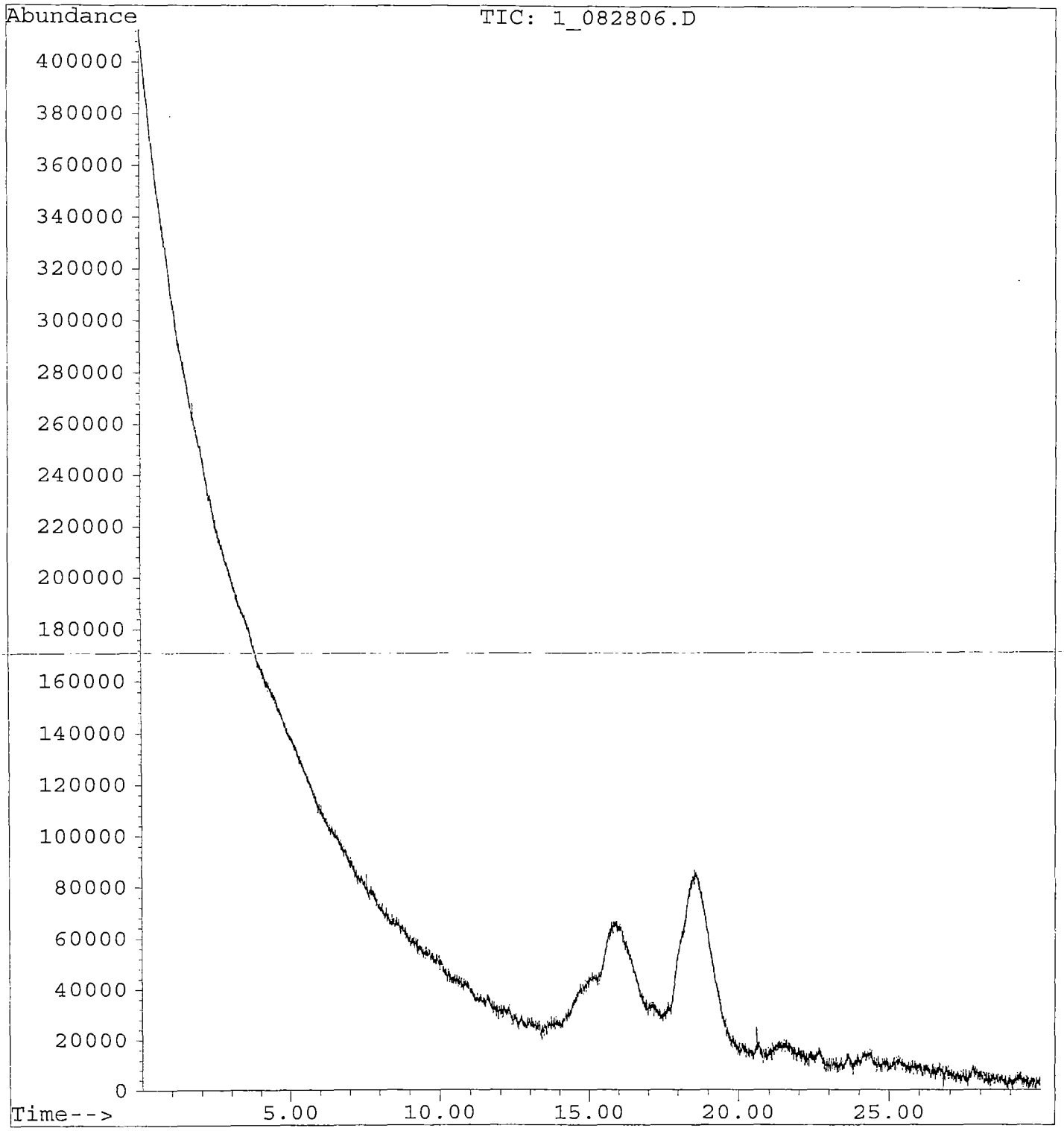
File : C:\HPCHEM\5\DATA\082801\1_082804.D
Operator : CR COL# 418002
Acquired : 28 Aug 01 15:12 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 4



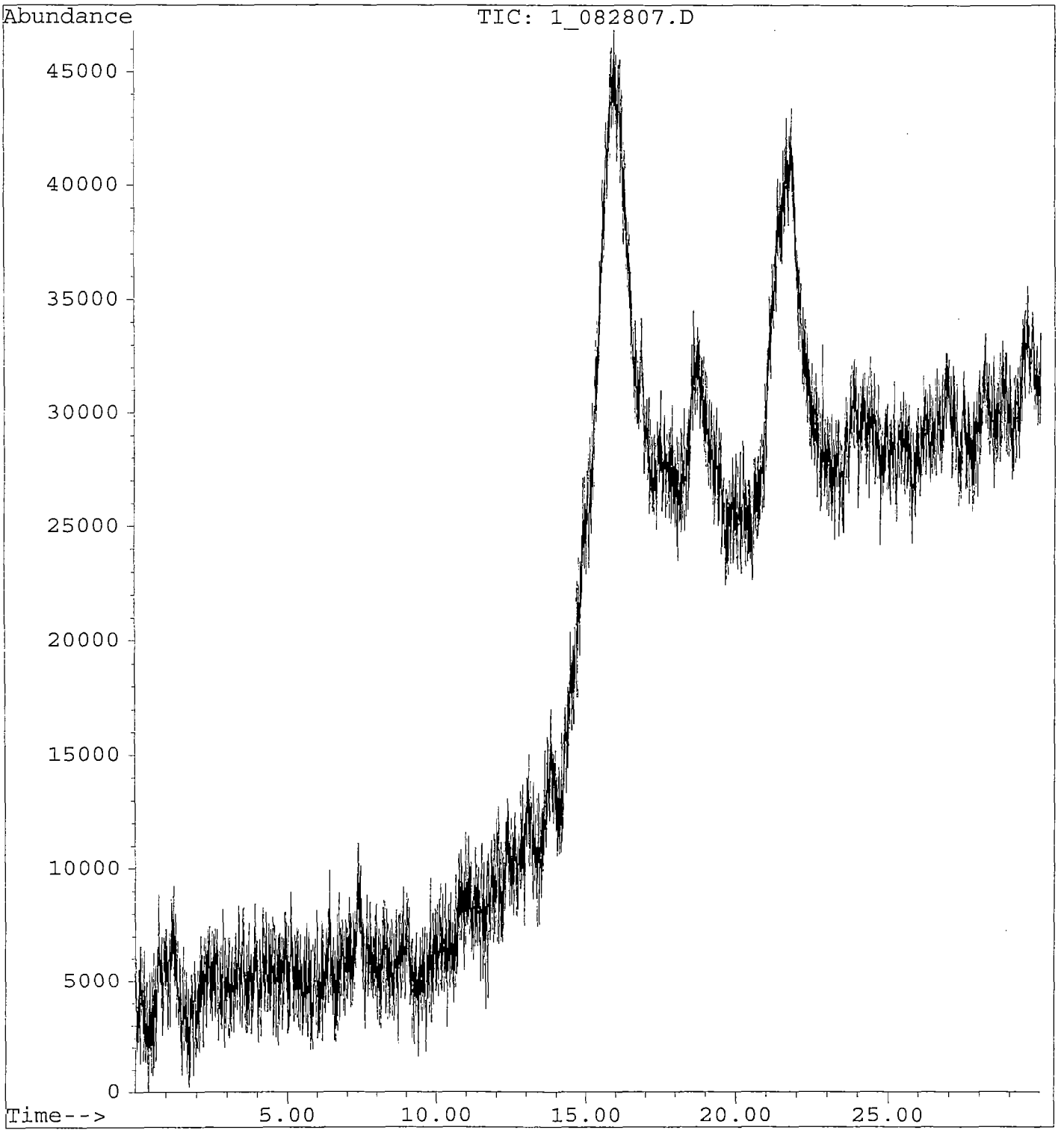
File : C:\HPCHEM\5\DATA\082801\1_082805.D
Operator : CR COL# 418002
Acquired : 28 Aug 01 15:43 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 5



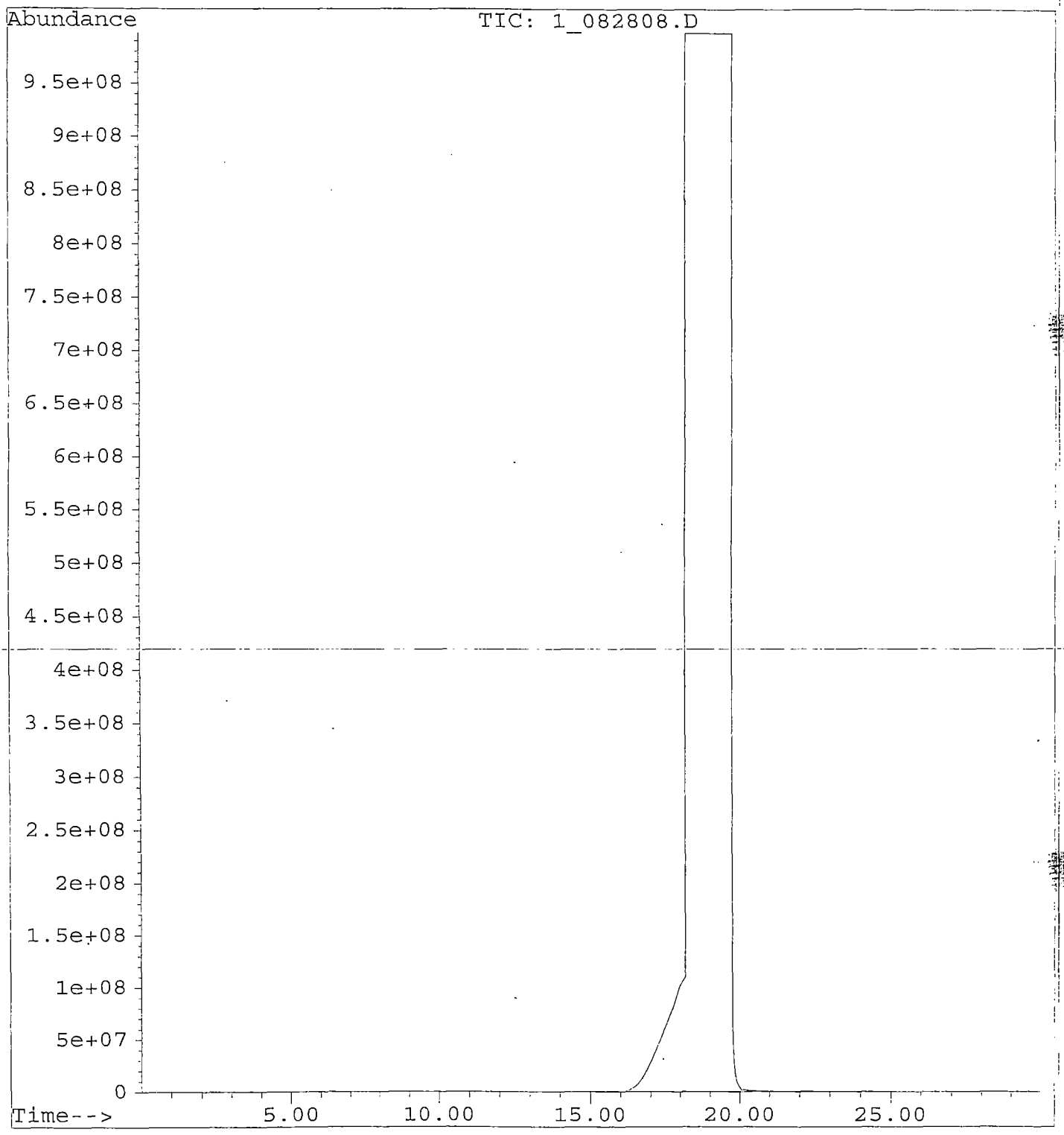
File : C:\HPCHEM\5\DATA\082801\1_082806.D
Operator : CR COL# 418002
Acquired : 28 Aug 01 16:14 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB#082801A (PEST)
Misc Info : COL# 418002
Vial Number: 6



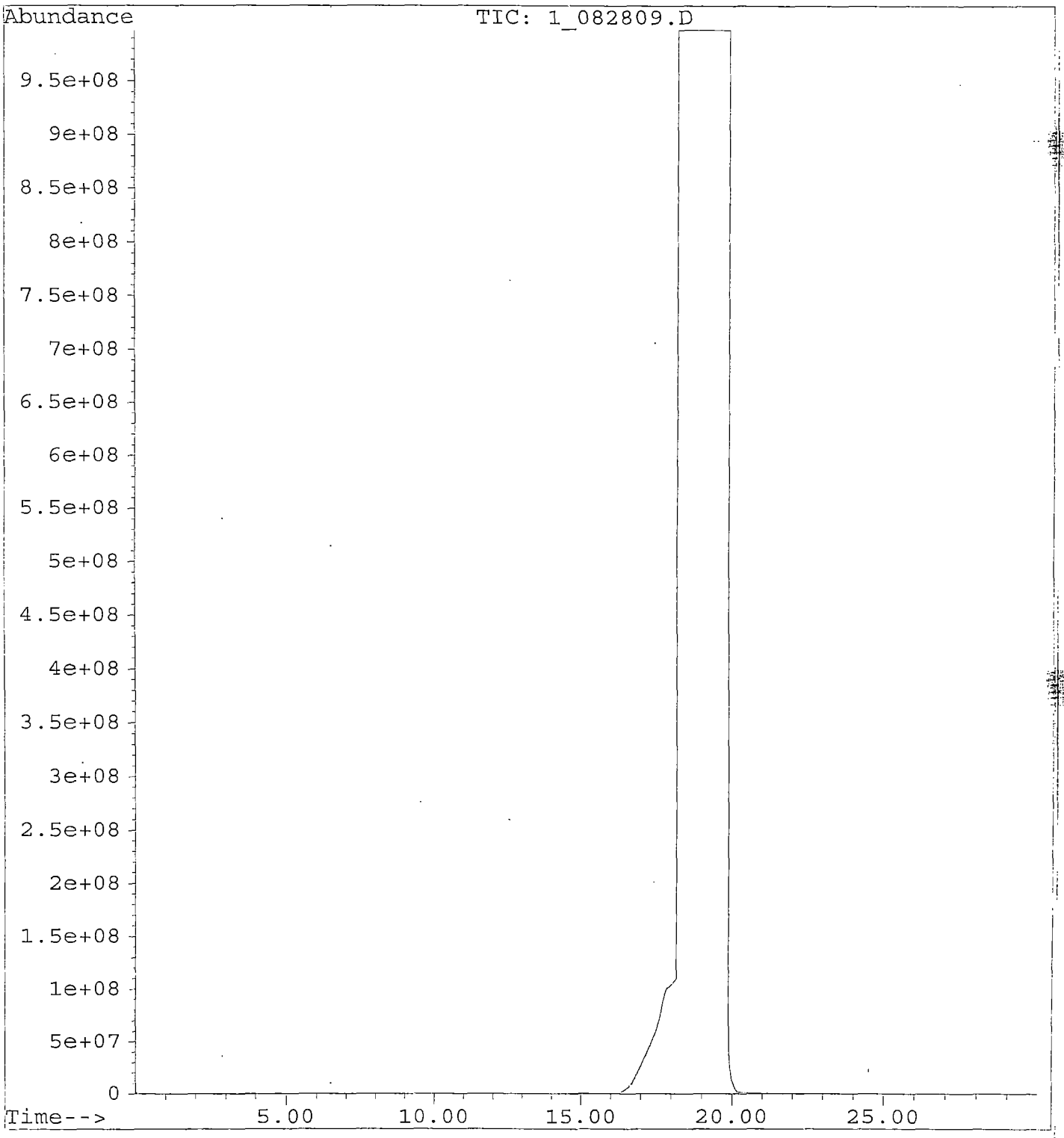
File : C:\HPCHEM\5\DATA\082801\1_082807.D
Operator : CR COL# 418002
Acquired : 28 Aug 01 16:45 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB#082801B (PEST)
Misc Info : COL# 418002
Vial Number: 7



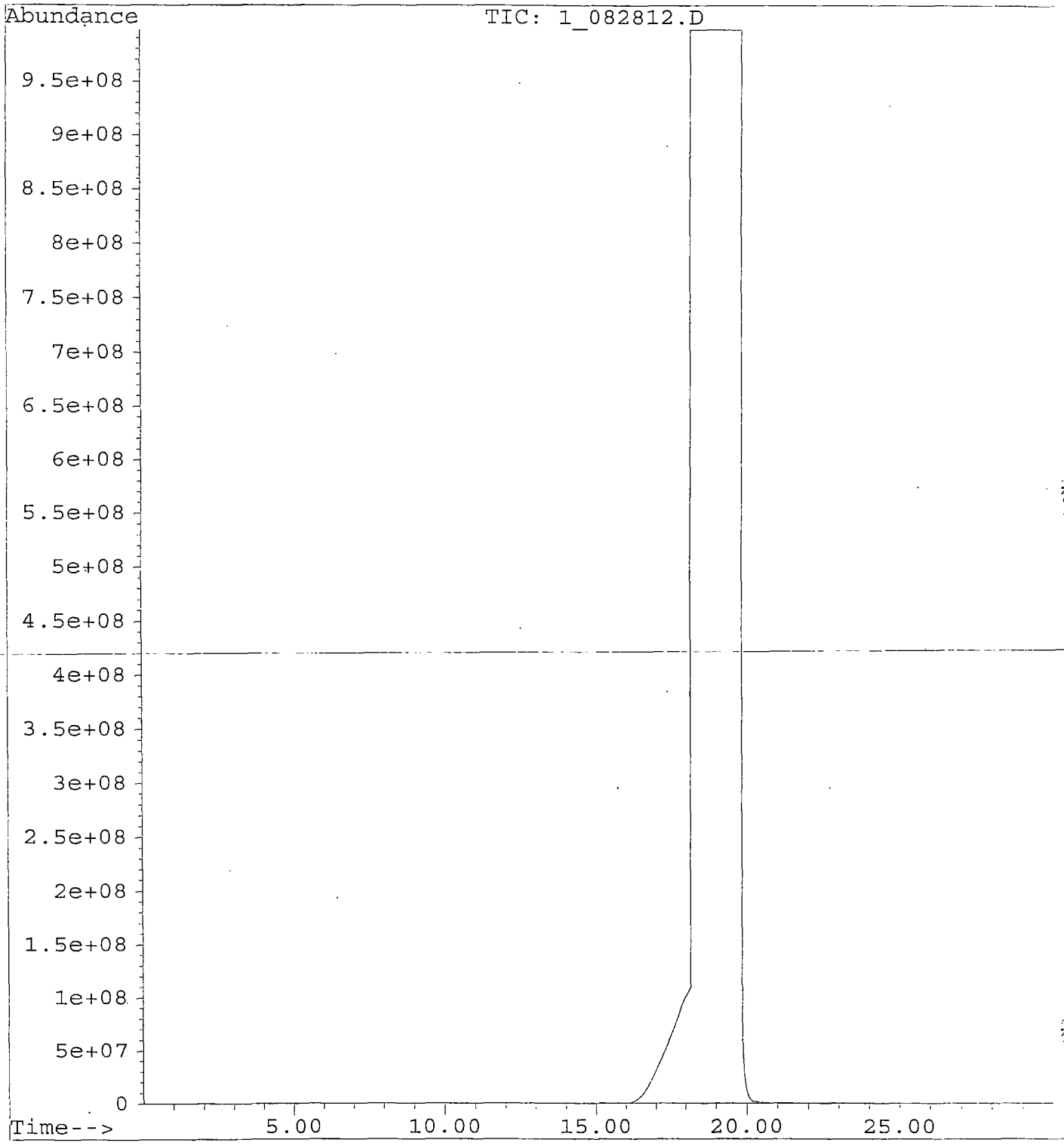
File : C:\HPCHEM\5\DATA\082801\1_082808.D
Operator : CR COL# 418002
Acquired : 28 Aug 01 17:16 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: BL0827SE-EPA
Misc Info : COL# 418002
Vial Number: 8



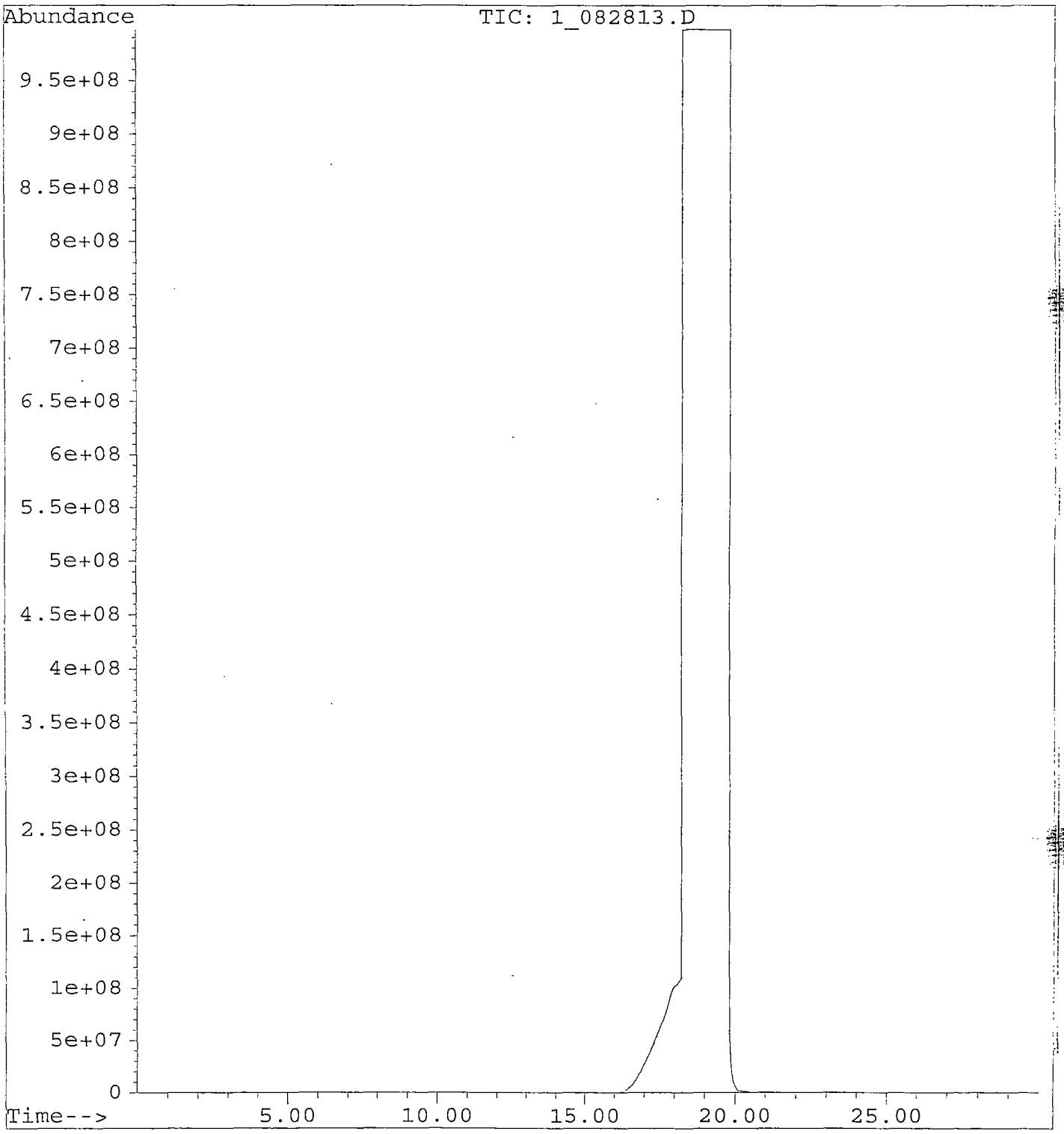
File : C:\HPCHEM\5\DATA\082801\1_082809.D
Operator : CR COL# 418002
Acquired : 28 Aug 01 17:47 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: BB0827SE-EPA
Misc Info : COL# 418002
Vial Number: 9



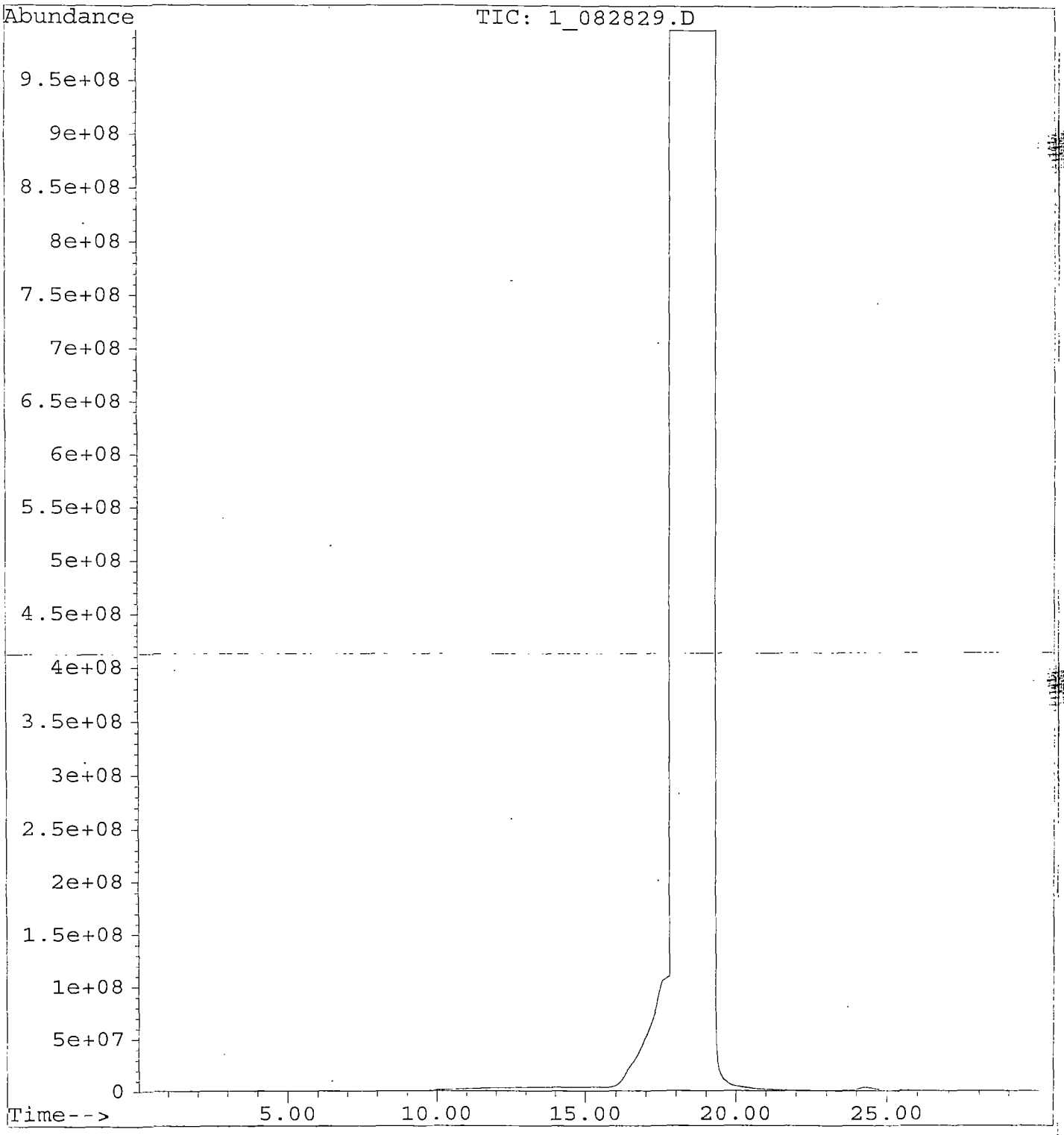
File : C:\HPCHEM\5\DATA\082801\1_082812.D
Operator : CR COL# 418002
Acquired : 28 Aug 01 19:21 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: LC0827SE-EPA
Misc Info : COL# 418002
Vial Number: 12



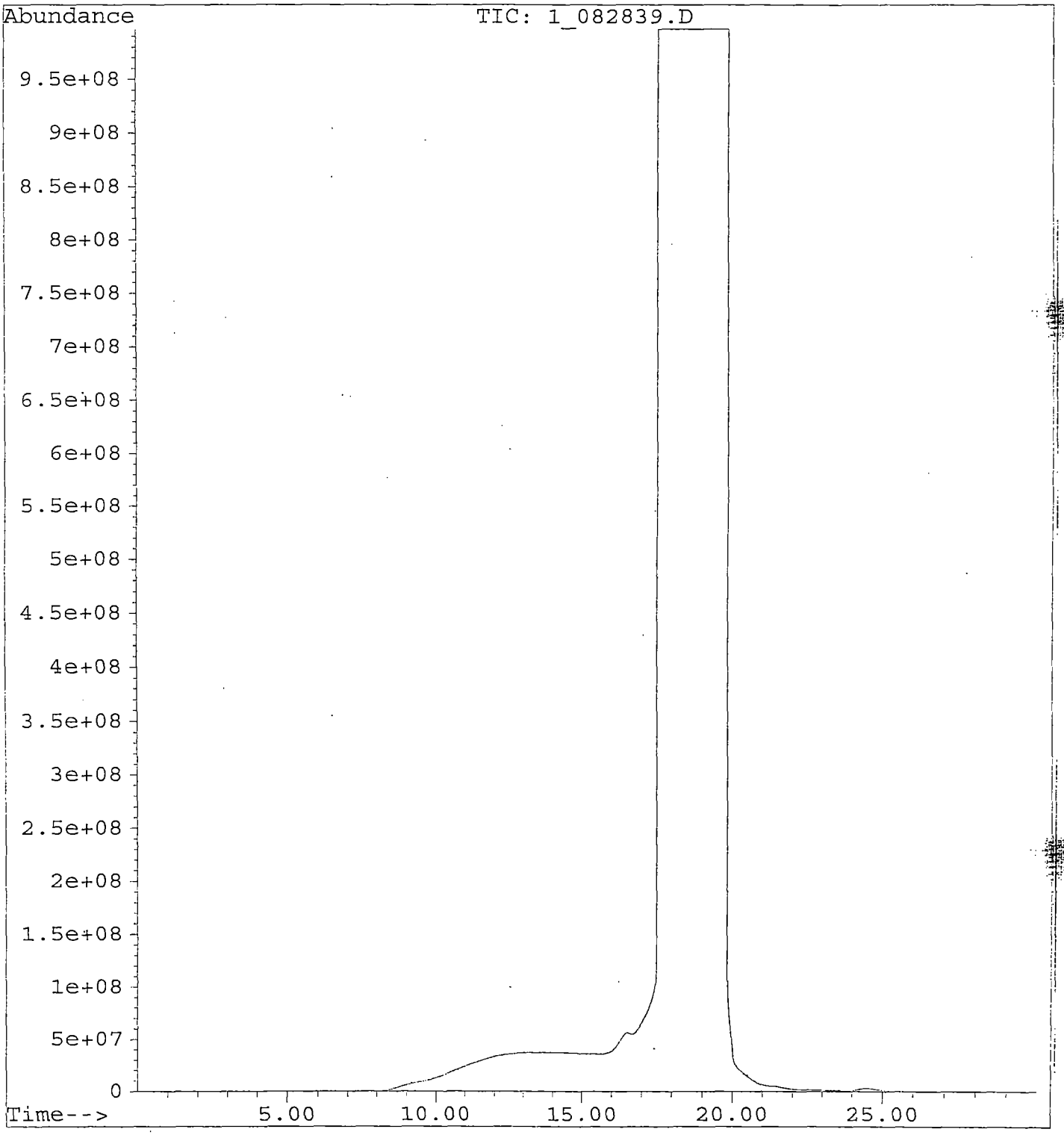
File : C:\HPCHEM\5\DATA\082801\1_082813.D
Operator : CR COL# 418002
Acquired : 28 Aug 01 19:52 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: LD0827SE-EPA
Misc Info : COL# 418002
Vial Number: 13



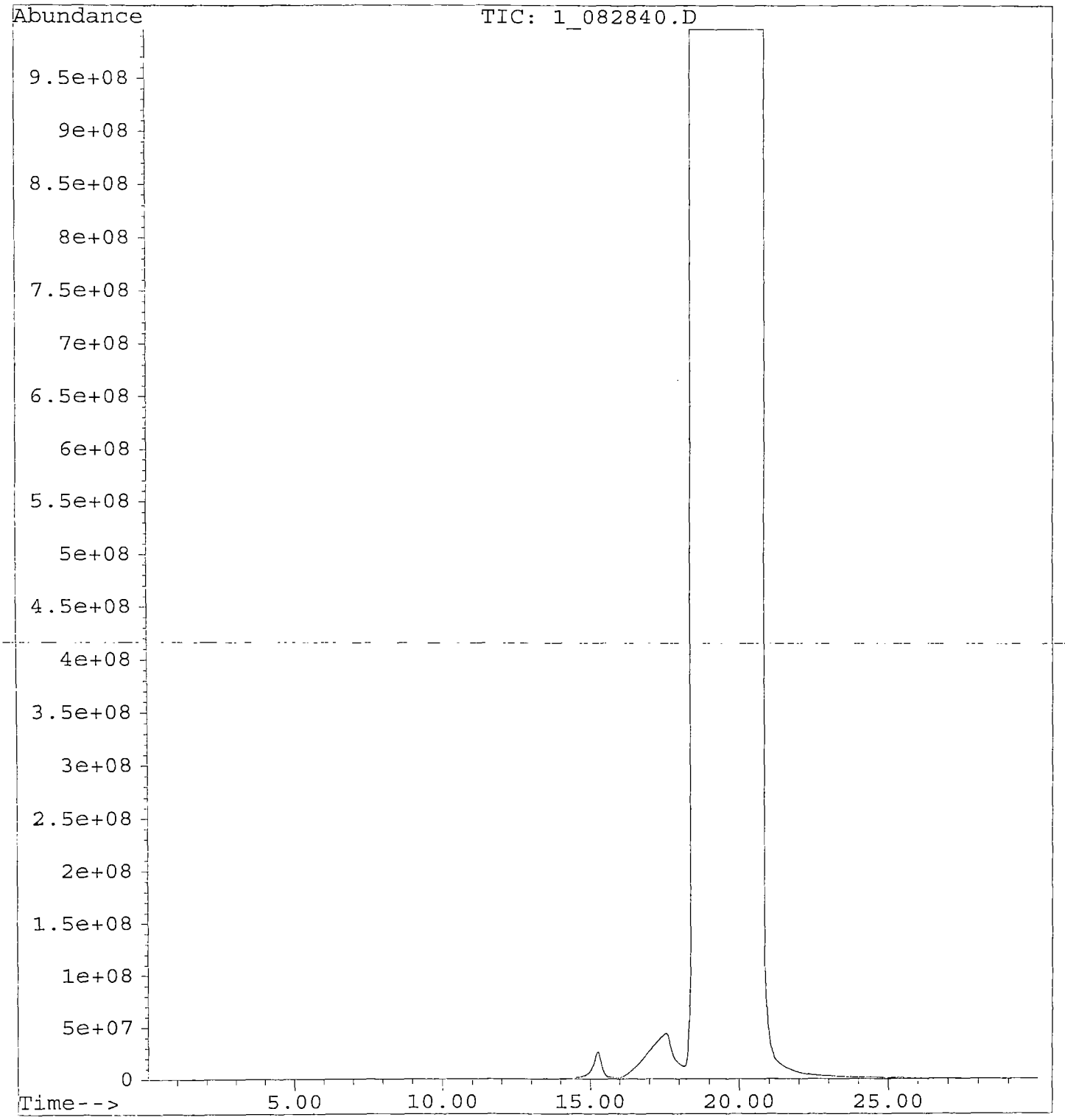
File : C:\HPCHEM\5\DATA\082801\1_082829.D
Operator : CR COL# 418002
Acquired : 29 Aug 01 04:06 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.19-E00Z7-EPA
Misc Info : COL# 418002
Vial Number: 29



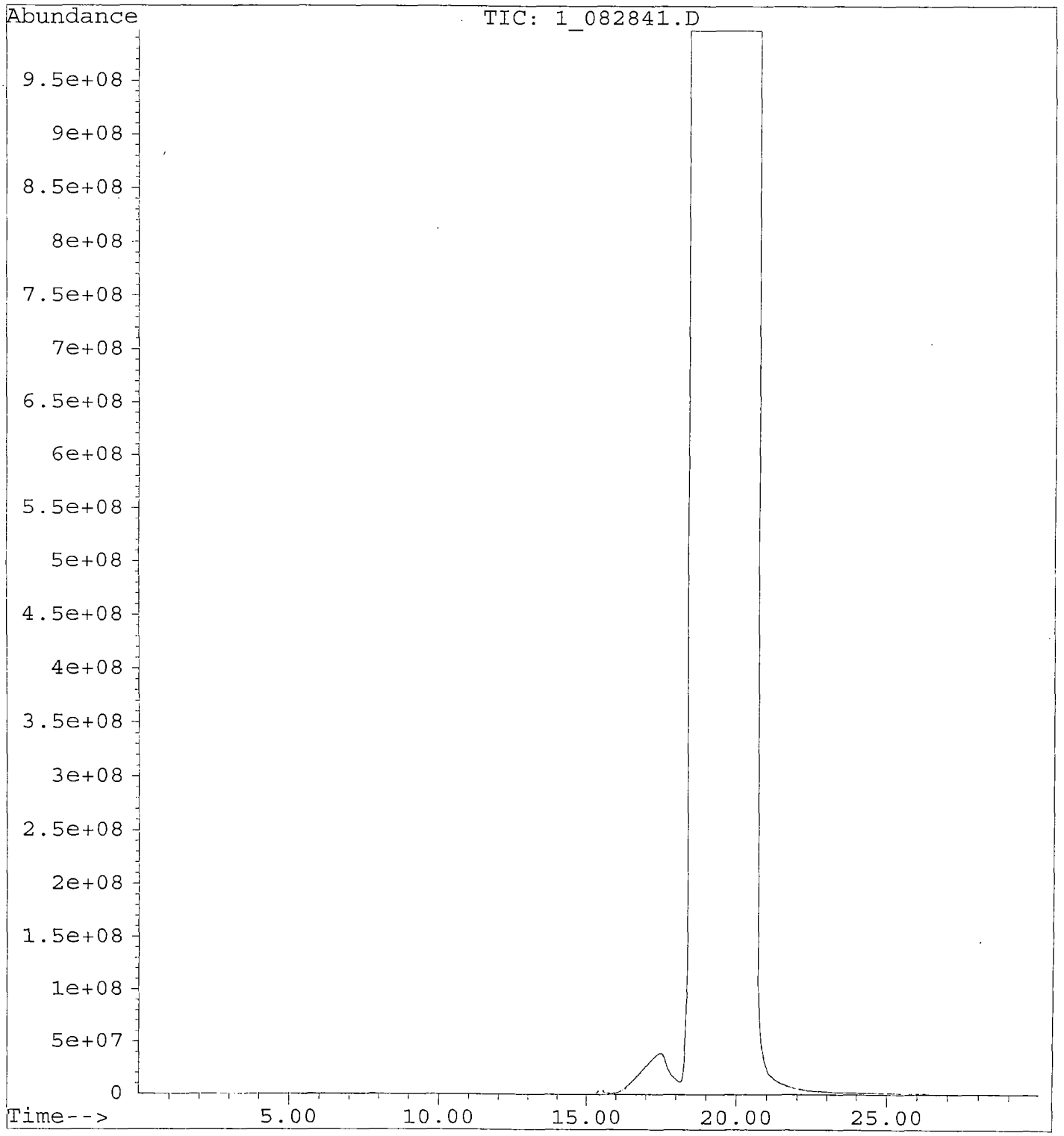
File : C:\HPCHEM\5\DATA\082801\1_082839.D
Operator : CR COL# 418002
Acquired : 29 Aug 01 09:16 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47166.21-E00Z9-EPA
Misc Info : COL# 418002
Vial Number: 39



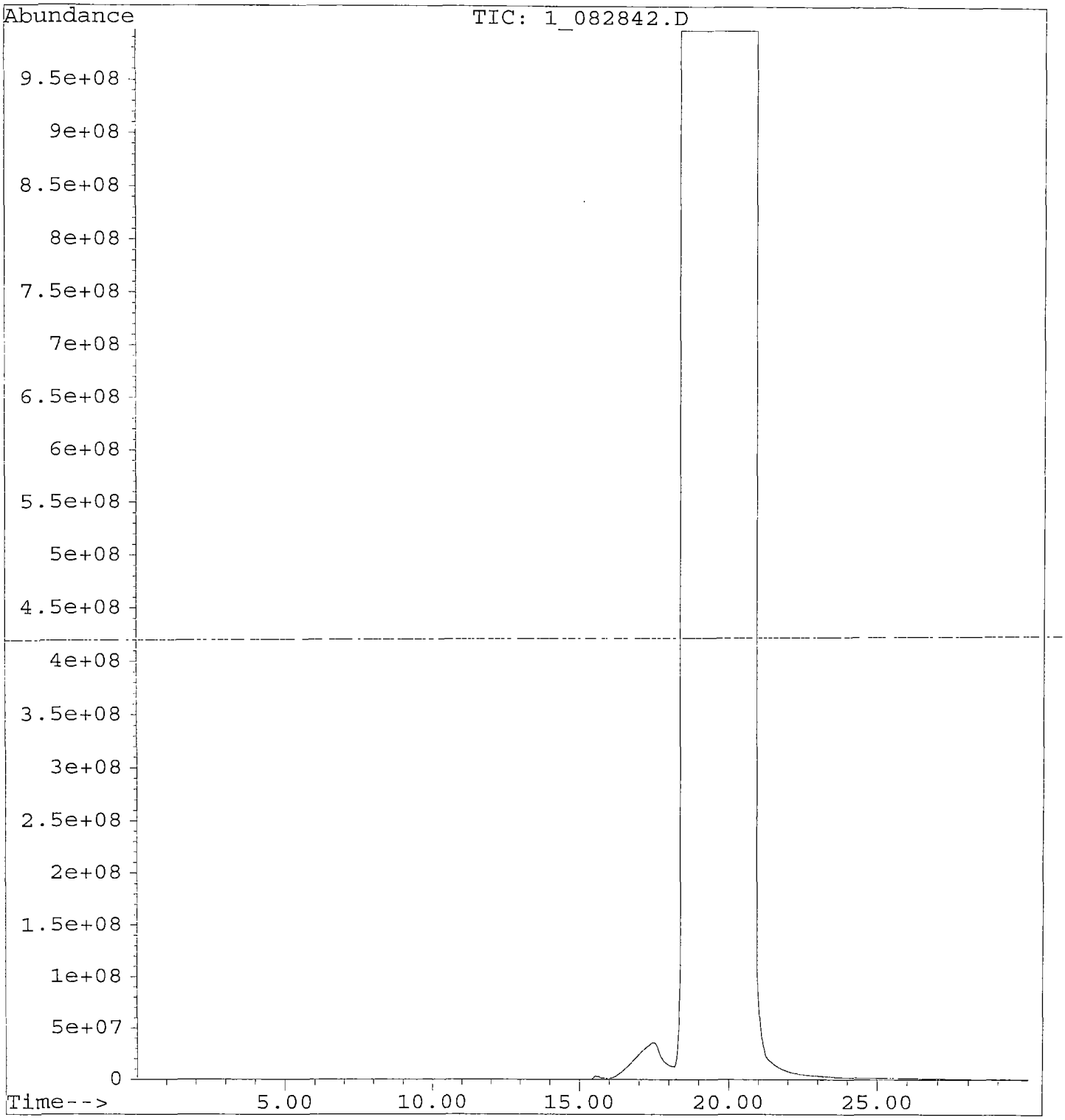
File : C:\HPCHEM\5\DATA\082801\1_082840.D
Operator : CR COL# 418002
Acquired : 29 Aug 01 09:46 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 40



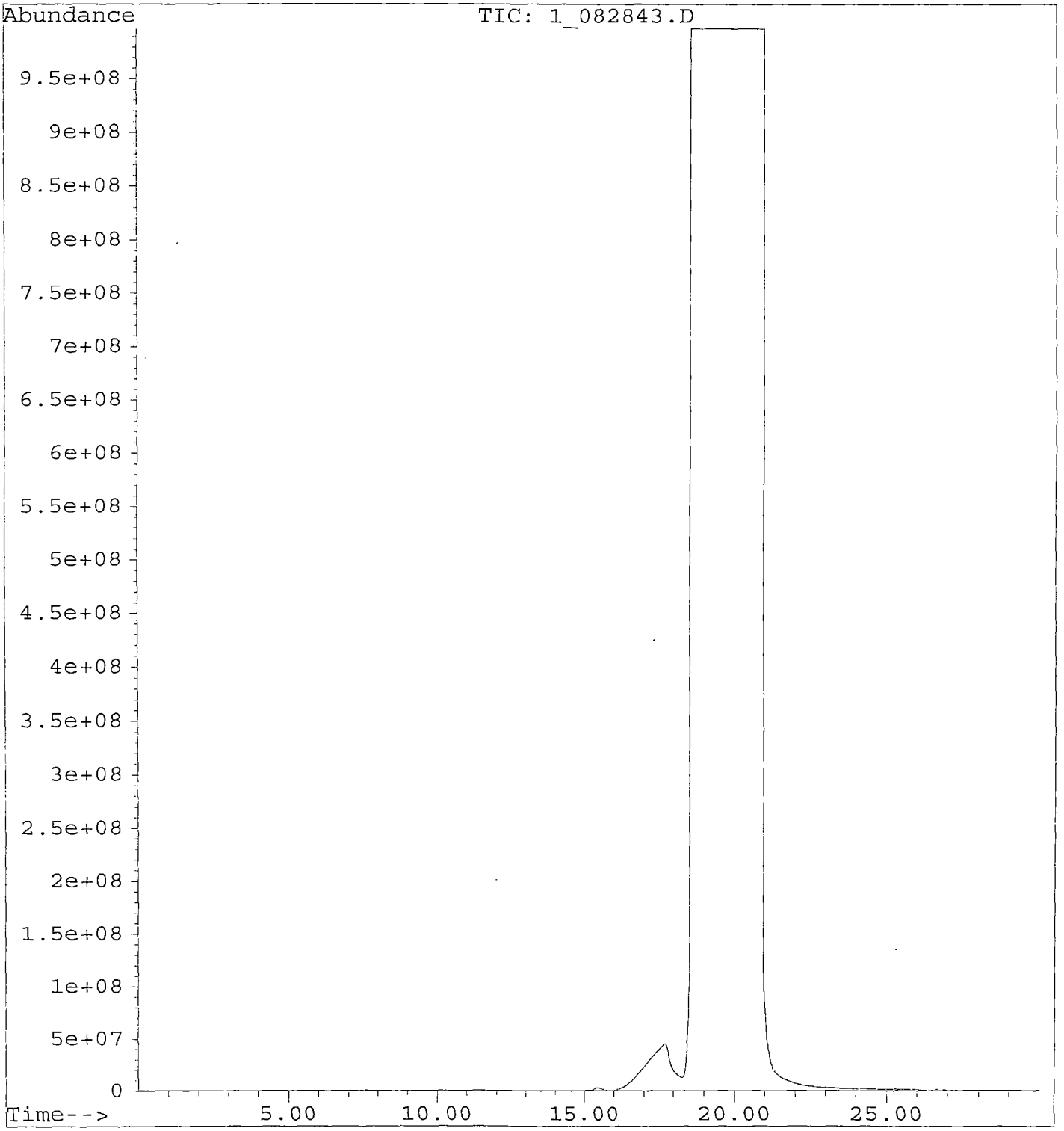
File : C:\HPCHEM\5\DATA\082801\1_082841.D
Operator : CR COL# 418002
Acquired : 29 Aug 01 10:17 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 41



File : C:\HPCHEM\5\DATA\082801\1_082842.D
Operator : CR COL# 418002
Acquired : 29 Aug 01 10:48 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 42

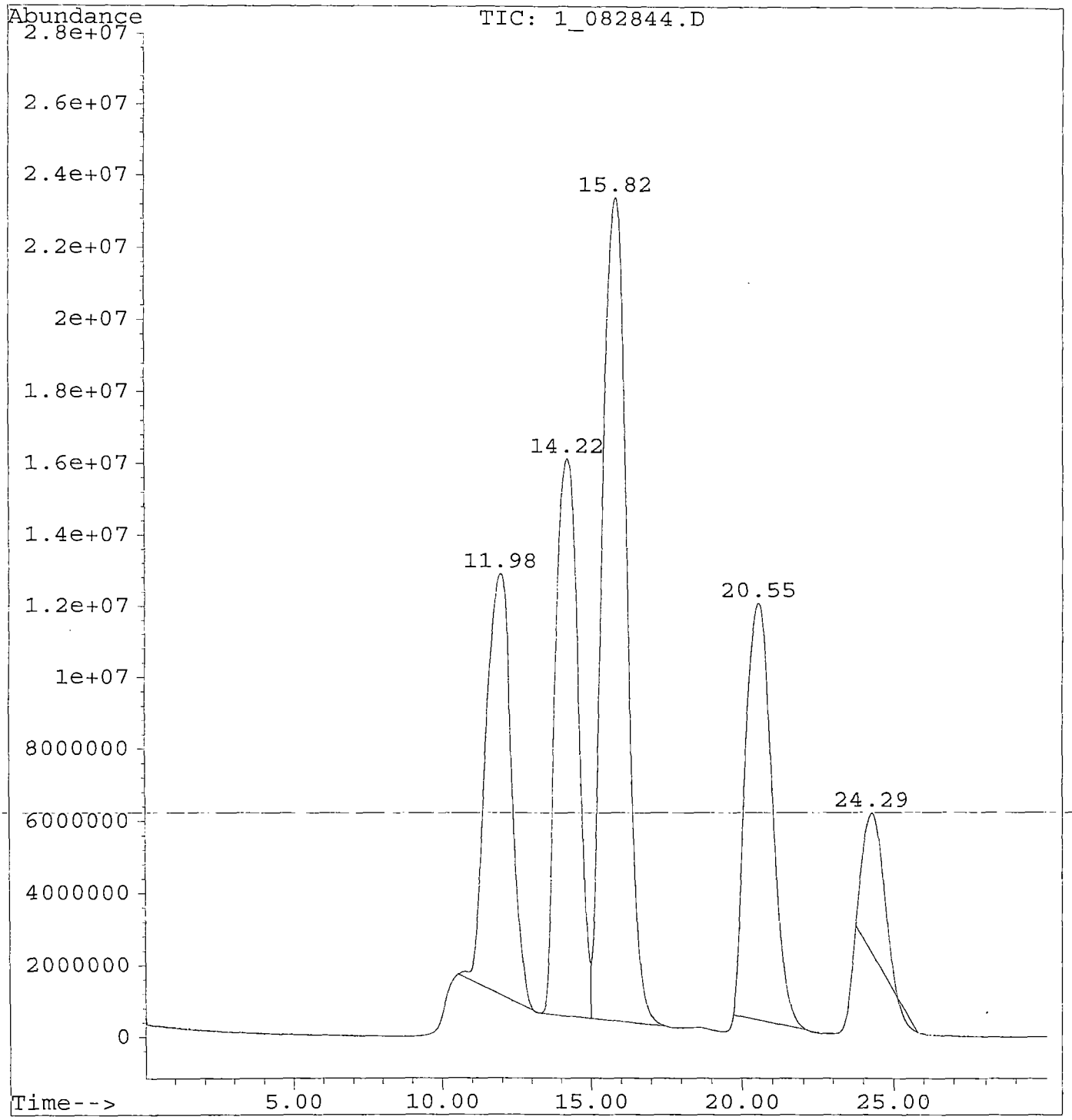


File : C:\HPCHEM\5\DATA\082801\1_082843.D
Operator : CR COL# 418002
Acquired : 29 Aug 01 11:19 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 43



Data File : C:\HPCHEM\5\DATA\082801\1_082844.D
Acq On : 29 Aug 01 11:50
Sample : CAL STD (FINAL)
Misc : COL# 418002

Vial: 44
Operator: CR COL#
Inst : GPC1
Multiplr: 1.00



1) 11.98 = Corn Oil
2) 14.22 = Pthalate
3) 15.82 = Methoxychlor
4) 20.55 = Perylene
5) 24.29 = Sulfur

Chromatographic Resolution Report

Data File : C:\HPCHEM\5\DATA\082801\1_082844.D
Acq On : 29 Aug 01 11:50
Sample : CAL STD (FINAL)
Misc : COL# 418002

Vial: 44
Operator: CR COL# 41
Inst : GPC1
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

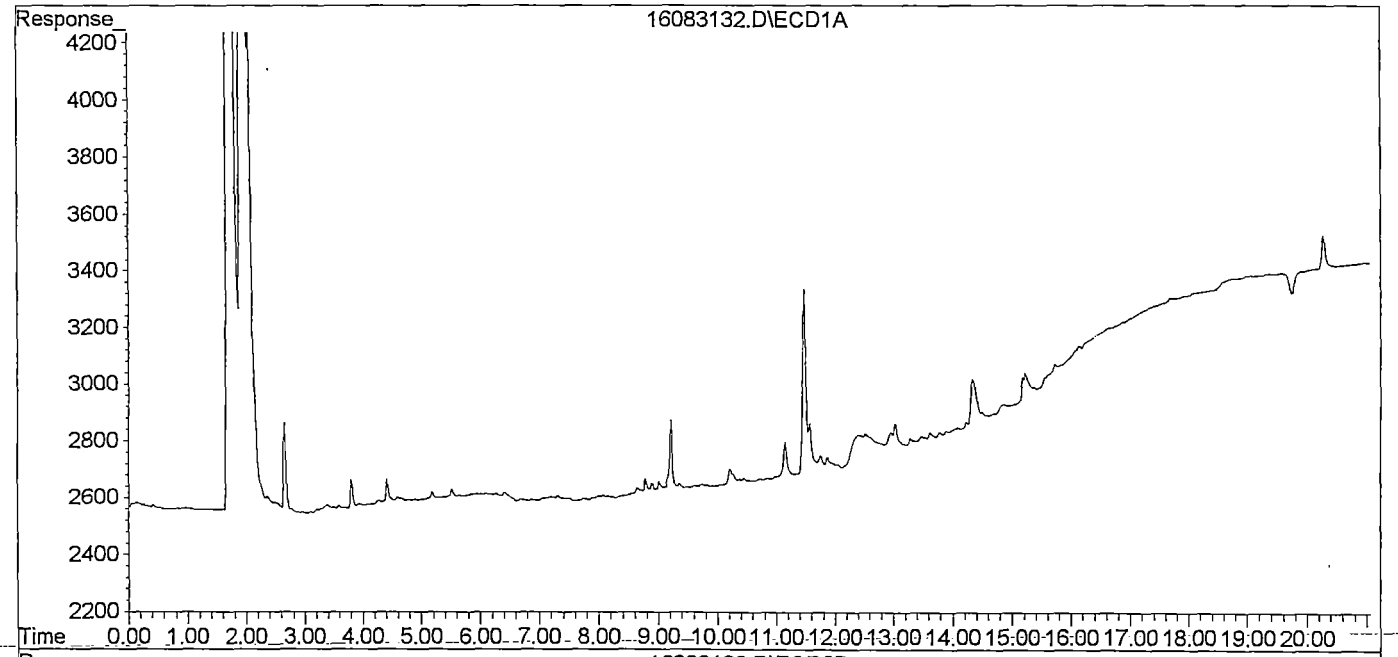
RT#1	RT#2	Resolution
11.977	14.221	100.00
14.221	15.815	90.40
15.815	20.554	100.00
20.554	24.289	100.00

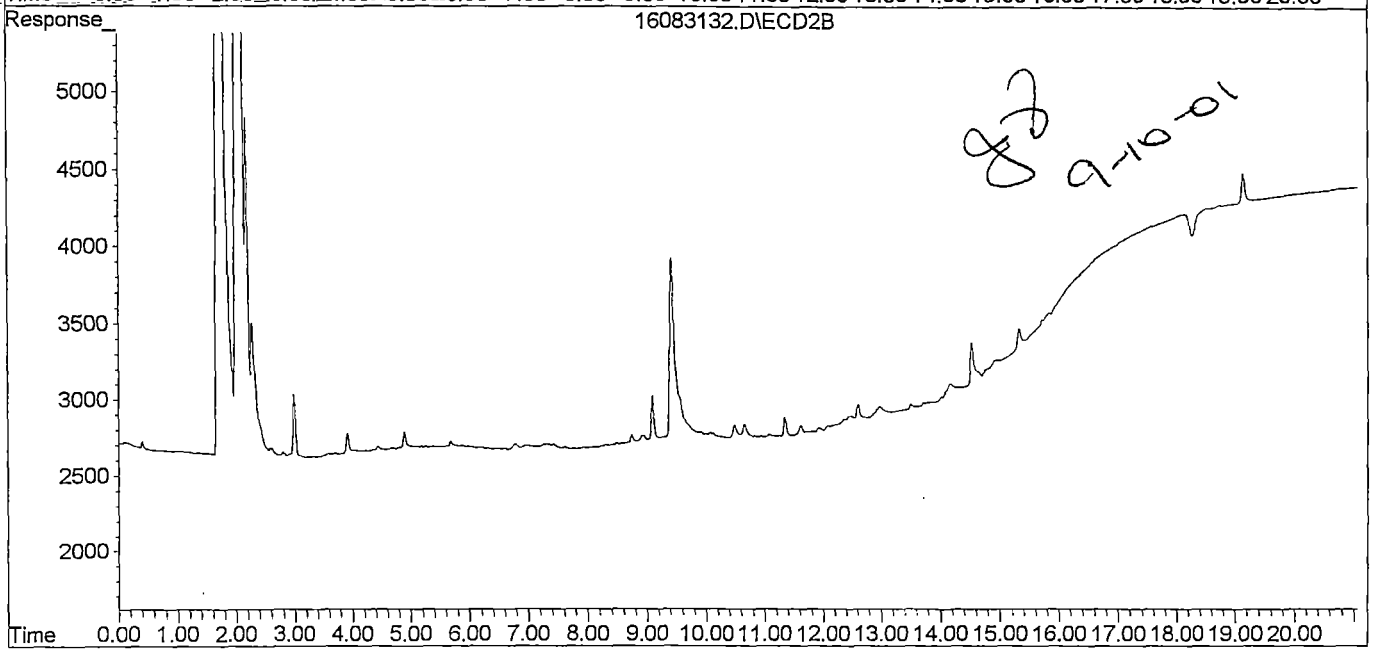
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083132.D\ECD1A.CH Vial: 32
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083132.D\ECD2B.CH
Acq On : 01 Sep 2001 2:35 Operator: TLM
Sample : SB082801A *SB082801A * Inst : HP_16
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 12:25 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083132.D\ECD1A.CH Vial: 32
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083132.D\ECD2B.CH
Acq On : 01 Sep 2001 2:35 Operator: TLM
Sample : SB082801A *SB082801A * Inst : HP_16
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 12:25 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

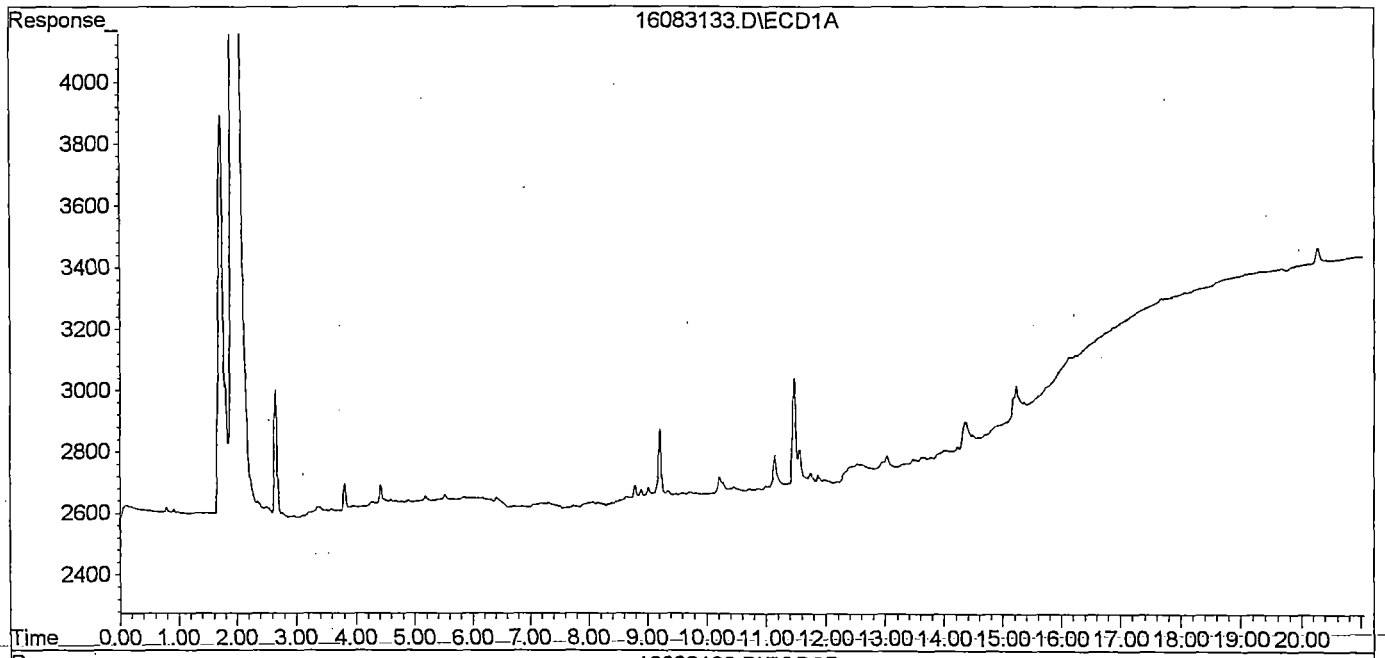
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

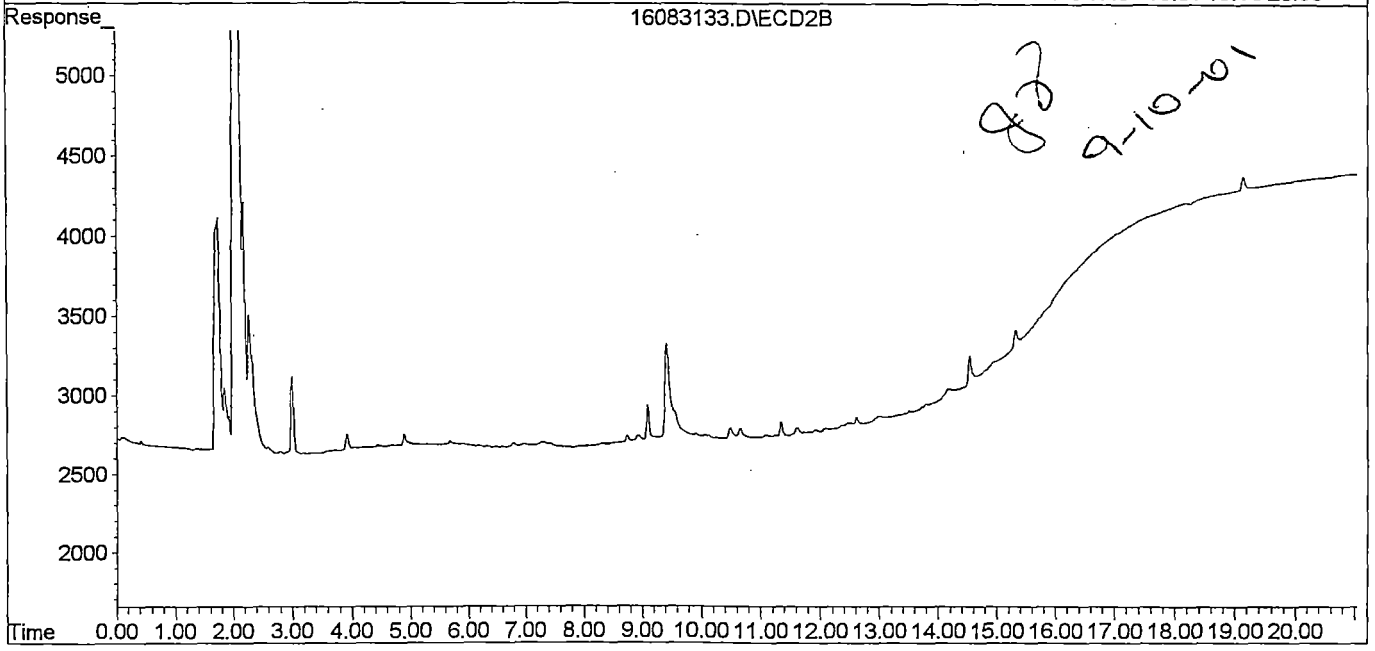
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083133.D\ECD1A.CH Vial: 33
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083133.D\ECD2B.CH
Acq On : 01 Sep 2001 2:59 Operator: TLM
Sample : SB082801B *SB082801B * Inst : HP_16
Misc : **1000/10ML* Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 12:26 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B





gz 9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\16\DATA\08_31_01\16083133.D\ECD1A.CH Vial: 33
Signal #2 : F:\HPCHEM\HP\16\DATA\08_31_01\16083133.D\ECD2B.CH
Acq On : 01 Sep 2001 2:59 Operator: TLM
Sample : SB082801B *SB082801B * Inst : HP_16
Misc : **1000/10ML* Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Sep 7 12:26 2001 Quant Results File: XPCBH31.RES

Method : F:\HPCHEM\HP\16\DATA\08_31_01\XPCBH31.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\16\DATA\08_31_01\
Last Update : Mon Aug 06 16:43:52 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_16A Signal #2 Inst : HP_16B

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL

System Monitoring Compounds:

Target Compounds:

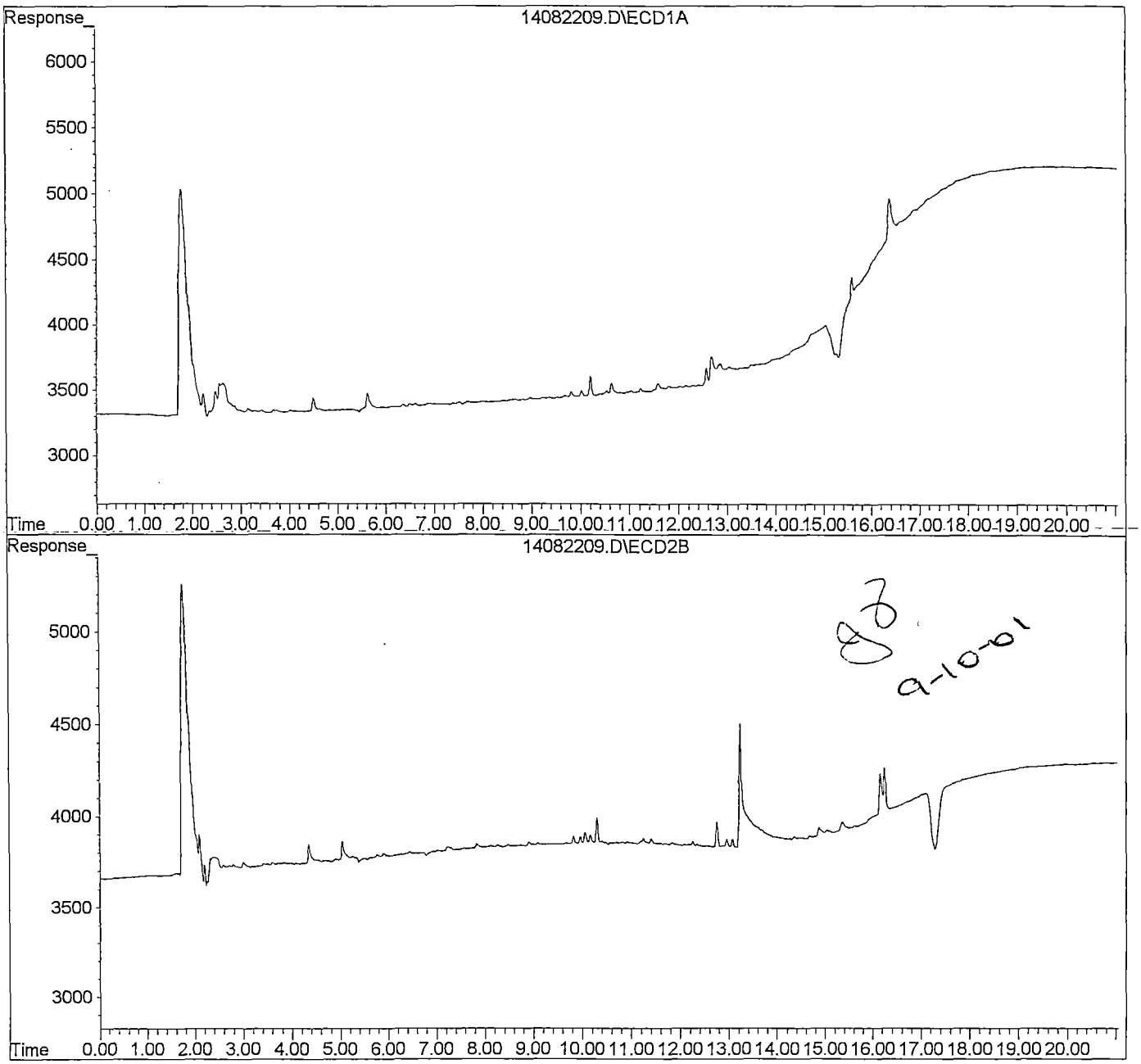
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082209.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082209.D\ECD2B.CH
Acq On : 22 Aug 2001 13:30 Operator: TLM
Sample : SB080501A *SB080501A * Inst : HP_14
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 15:05 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B



9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082209.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082209.D\ECD2B.CH
Acq On : 22 Aug 2001 13:30 Operator: TLM
Sample : SB080501A *SB080501A * Inst : HP_14
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 15:05 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

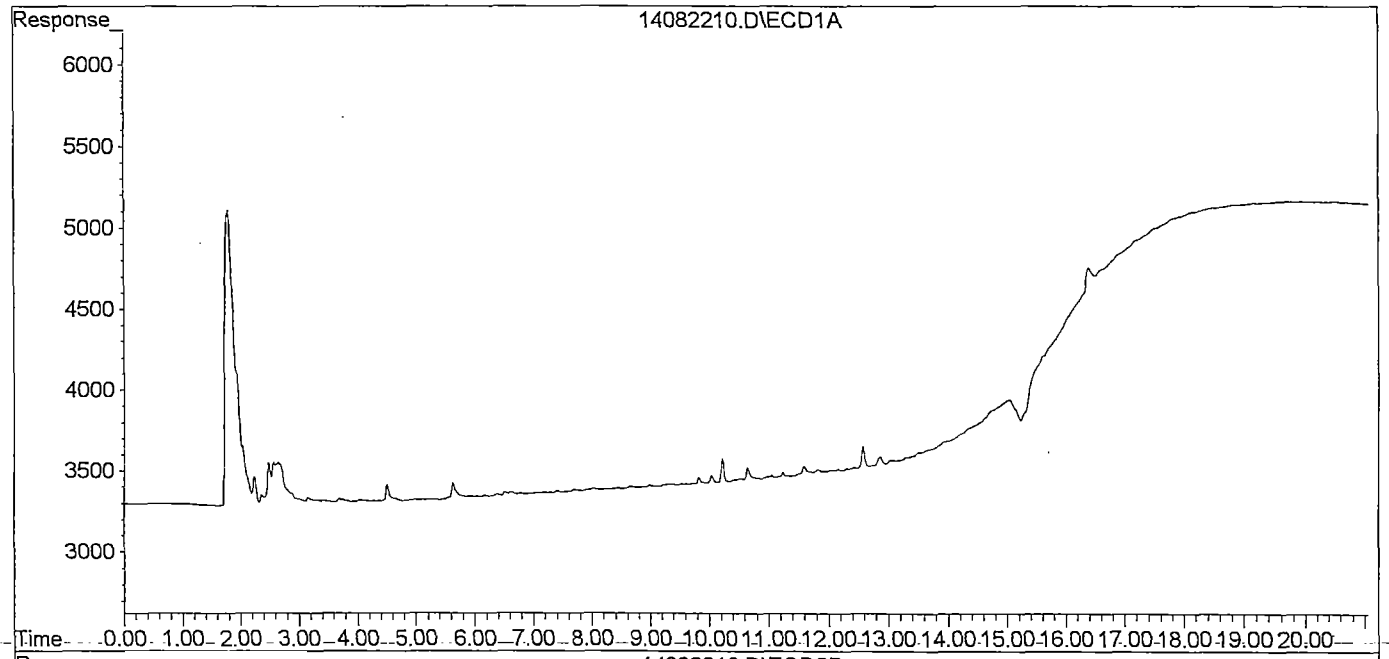
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

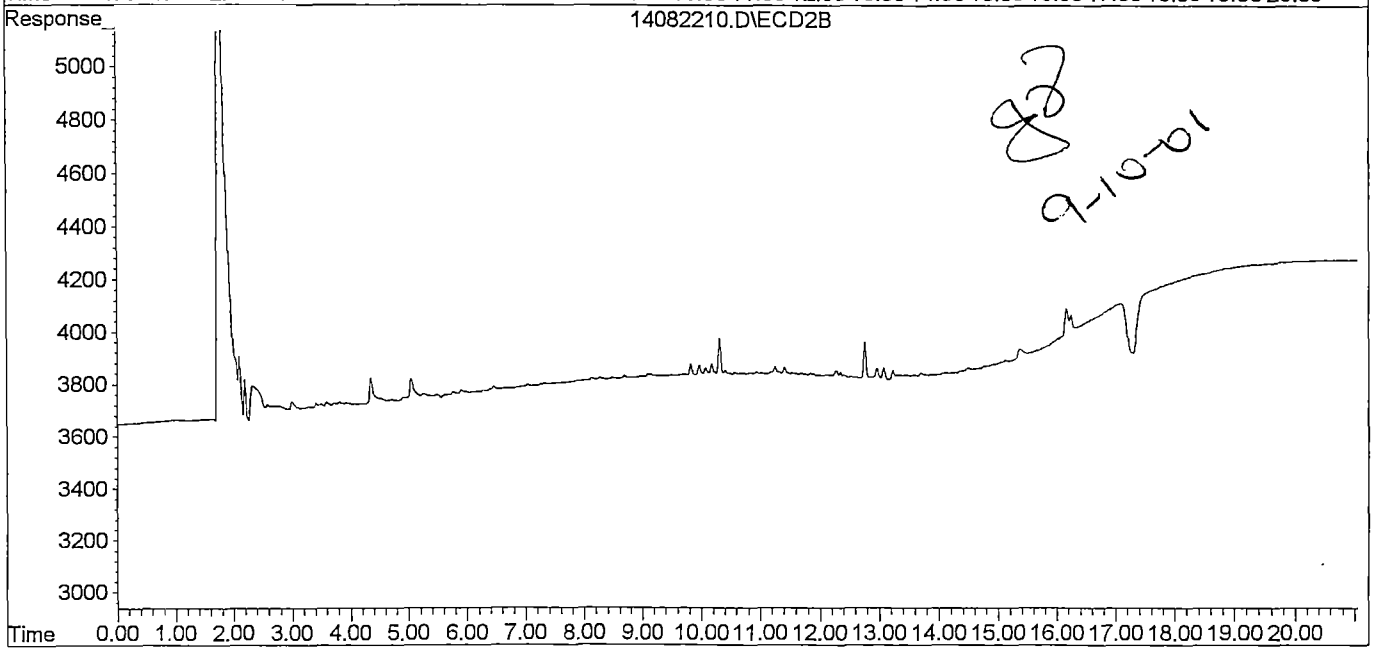
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082210.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082210.D\ECD2B.CH
Acq On : 22 Aug 2001 13:54 Operator: TLM
Sample : SB080501B *SB080501B * Inst : HP_14
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 15:05 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B





9-10-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\14\DATA\08_22_01\14082210.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\14\DATA\08_22_01\14082210.D\ECD2B.CH
Acq On : 22 Aug 2001 13:54 Operator: TLM
Sample : SB080501B *SB080501B * Inst : HP_14
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events1.e IntFile Signal #2: events2.e
Quant Time: Aug 25 15:05 2001 Quant Results File: XPCBH20.RES

Method : F:\HPCHEM\HP\14\DATA\08_22_01\XPCBH20.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\14\DATA\08_20_01\
Last Update : Tue Aug 07 10:50:44 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : RTX-PEST 2 Signal #2 Phase: RTX-PEST
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_14A Signal #2 Inst : HP_14B

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

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-10 SWL Rev.#: 2.1

CASE NO.: INJ. VOL: 0.5 uL INSTRUMENT: HP_14
SDG NO. : METHOD FILE(S): XPCBH20(OLM04.2)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
08/20/01 9:52	HEXANE	HEXANE	14082001	NU.
08/20/01 10:16	HEXANE	HEXANE	14082002	
08/20/01 10:40	COND	COND	14082003	
08/20/01 11:04	HEXANE	HEXANE	14082004	
08/20/01 14:07	PIBLKAI	5-131-7	14082005	
08/20/01 14:31	AR1660L3AQ	5-128-7	14082006	
08/20/01 14:55	AR1660L3AR	5-128-7	14082007	
08/20/01 17:09	COND	COND	14082008	
08/20/01 17:33	HEXANE	HEXANE	14082009	
08/20/01 17:58	RESCAC	5-171-7	14082010	OK
08/20/01 18:22	AR1221L3AC	5-420-6	14082011	
08/20/01 18:46	AR1232L3AC	5-422-6	14082012	
08/20/01 19:10	AR1242L1AC	5-11-7	14082013	
08/20/01 19:34	AR1242L2AC	5-10-7	14082014	ICAL
08/20/01 19:58	AR1242L3AC	5-9-7	14082015	
08/20/01 20:23	AR1242L4AC	5-8-7	14082016	
08/20/01 20:47	AR1242L5AC	5-7-7	14082017	
08/20/01 21:11	AR1248L3AC	5-424-6	14082018	
08/20/01 21:35	AR1254L1AC	5-6-7	14082019	
08/20/01 21:59	AR1254L2AC	5-5-7	14082020	
08/20/01 22:24	AR1254L3AC	5-4-7	14082021	

Unless noted, Client Ids are the same for the quant. & confirmation columns

8/23/01 — Verification Signature/Date

8-23-01 — Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK AATS SWLO-OP-301 OP-301-RUNLOG-10 SWL Rev.#: 2.1

CASE NO.: INJ. VOL: 0.5 uL INSTRUMENT: HP_14
SDG NO. : METHOD FILE(S): XPCBH20(OLM04.2)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
08/20/01 22:48	AR1254L4AC	5-3-7	14082022	OK
08/20/01 23:12	AR1254L5AC	5-2-7	14082023	
08/20/01 23:36	AR1660L1AC	5-130-7	14082024	
08/21/01 00:01	AR1660L2AC	5-129-7	14082025	
08/21/01 00:25	AR1660L3AS	5-128-7	14082026	ICAL
08/21/01 00:49	AR1660L4AC	5-171-7	14082027	
08/21/01 1:13	AR1660L5AC	5-126-7	14082028	
08/21/01 1:37	PIBLKAJ	5-131-7	14082029	
08/21/01 2:02	AR1660L3ICVAC	5-442-6	14082030	
08/21/01 2:26	AR1221L3ICVAC	5-436-6	14082031	
08/21/01 2:50	AR1232L3ICVAC	5-437-6	14082032	
08/21/01 3:14	AR1242L3ICVAC	5-438-6	14082033	
08/21/01 3:38	AR1248L3ICVAC	5-439-6	14082034	
08/21/01 4:03	AR1254L3ICVAC	5-440-6	14082035	
08/21/01 4:27	HEXANE	HEXANE	14082036	—

Unless noted, Client Ids are the same for the quant. & confirmation columns

8/23/01 8-23-01

Verification Signature/Date Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-10 SWL Rev.#: 2.1

CASE NO.: EPA INJ. VOL: 0.5 uL INSTRUMENT: HP_14
SDG NO. : 17166 METHOD FILE(S): XPCBH20(OLM04.2)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
08/22/01 9:08	HEXANE	HEXANE	14082201	—
08/22/01 9:32	COND	COND	14082202	—
08/22/01 9:57	HEXANE	HEXANE	14082203	—
08/22/01 10:21	PIBLKAL	5-131-7	14082204	OK
08/22/01 10:45	AR1660L3AZ	5-128-7	14082205	OK
08/22/01 11:09	AR1660L3AA	5-128-7	14082206	NU
08/22/01 12:42	PBLKSE	BL0802SE	14082207	OK
08/22/01 13:06	PBLKSE	BB0802SE	14082208	NU
08/22/01 13:30	SB080501A	SB080501A	14082209	OK 9/10/01
08/22/01 13:54	SB080501B	SB080501B	14082210	OK
08/22/01 14:19	ELCS1	LC0802SE	14082211	OK LCS/LCSD OK
08/22/01 14:43	ELCS2	LD0802SE	14082212	OK
08/22/01 15:07	E00Y1	47166.01	14082213	OK
08/22/01 15:31	E00Y2	47166.02	14082214	OK
08/22/01 15:55	E00Y3	47166.03	14082215	RR at 10X
08/22/01 16:20	E00Y4	47166.04	14082216	RR at 10X
08/22/01 16:44	E00Y5	47166.05	14082217	RR at 5X
08/22/01 17:08	E00Y6	47166.06	14082218	OK
08/22/01 17:32	E00Y7	47166.07	14082219	OK
08/22/01 17:56	E00Y8	47166.08	14082220	OK
08/22/01 18:21	E00Y9	47166.09	14082221	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

Verification Signature/Date 8/23/01 Analyst Signature/Date 8-23-01

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-10 SWL Rev.#: 2.1

CASE NO.: EPA INJ. VOL: 0.5 uL INSTRUMENT: HP_14
SDG NO. : 17166 METHOD FILE(S): XPCBH20(OLM04.2)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
08/22/01 18:45	HEXANE	HEXANE	14082222	—
08/22/01 19:09	HEXANE	HEXANE	14082223	—
08/22/01 19:33	HEXANE	HEXANE	14082224	—
08/22/01 19:58	PIBLKAM	5-131-7	14082225	OK
08/22/01 20:22	AR1660L3AB	5-128-7	14082226	out * OK'd per Harry
08/22/01 20:46	AR1660L3AC	5-128-7	14082227	out
08/22/01 21:10	E00Z0	47166.10	14082228	OK
08/22/01 21:34	E00Z1	47166.11	14082229	~~send for reextraction~~ RR at 5X & 50X ?
08/22/01 21:59	E00Z1MS	47166.12MS	14082230	RR at 5X
08/22/01 22:23	E00Z1MSD	47166.13MSD	14082231	RR at 5X
08/22/01 22:47	E00Z2	47166.14	14082232	RR at 10X
08/22/01 23:11	E00Z3	47166.15	14082233	RR at 5X
08/22/01 23:35	E00Z4	47166.16	14082234	RR at 5X
08/23/01 00:00	E00Z5	47166.17	14082235	OK
08/23/01 00:24	E00Z6	47166.18	14082236	OK
08/23/01 00:48	E00Z7	47166.19	14082237	send for Reextraction RR at 5X + 50X ?
08/23/01 1:12	E00Z8	47166.20	14082238	OK
08/23/01 1:37	E00Z9	47166.21	14082239	send for Reextraction RR at 10X ?
08/23/01 2:01	E0100	47166.22	14082240	RR at 5X
08/23/01 2:25	HEXANE	HEXANE	14082241	—
08/23/01 2:49	HEXANE	HEXANE	14082242	—

JM 8-23-01 x3

Unless noted, Client Ids are the same for the quant. & confirmation columns

[signature] 8/23/01
Verification Signature/Date

[signature] 8-23-01
Analyst Signature/Date

*CCAL exceeded acceptability criteria on one column. OK'd per Harry

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GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-10 SWL Rev.#: 2.1

CASE NO.: EPA INJ. VOL: 0.5 uL INSTRUMENT: HP_14
SDG NO. : 17166 METHOD FILE(S): XPCBH20(OLM04.2)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
08/23/01 3:13	HEXANE	HEXANE	14082243	—
08/23/01 3:37	PIBLKAN	5-131-7	14082244	OK
08/23/01 4:02	AR1660L3AD	5-128-7	14082245	out* OK'd per Harry
08/23/01 4:26	AR1660L3AE	5-128-7	14082246	OUT

Unless noted, Client Ids are the same for the quant. & confirmation columns

Thakeri 8/23/01
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8-23-01
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* CCALs exceeded acceptability criteria. OK'd per Harry

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-11 SWL Rev.#: 2.1

CASE NO.: EPA INJ. VOL: 0.5 uL INSTRUMENT: HP_16
SDG NO. : 47158, 47162, 47166, 47179 METHOD FILE(S): XPCBH28.M (OLM4.2)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
08/28/01 12:34	1242TEST		16082801	
08/28/01 12:59	COND		16082802	
08/28/01 13:24	HEXANE		16082803	
08/28/01 13:49	RESCCF	5-171-7	16082804	OK
08/28/01 14:13	AR1221L3CF	5-420-6	16082805	
08/28/01 14:38	AR1232L3CF	5-422-6	16082806	
08/28/01 15:03	AR1242L1CF	5-11-7	16082807	
08/28/01 15:28	AR1242L2CF	5-10-7	16082808	
08/28/01 15:52	AR1242L3CF	5-9-7	16082809	
08/28/01 16:17	AR1242L4CF	5-8-7	16082810	
08/28/01 16:42	AR1242L5CF	5-7-7	16082811	
08/28/01 17:06	AR1248L3CF	5-424-6	16082812	
08/28/01 17:31	AR1254L1CF	5-6-7	16082813	
08/28/01 17:56	AR1254L2CF	5-5-7	16082814	
08/28/01 18:20	AR1254L3CF	5-4-7	16082815	
08/28/01 18:45	AR1254L4CF	5-3-7	16082816	
08/28/01 19:09	AR1254L5CF	5-2-7	16082817	
08/28/01 19:34	AR1660L1CF	5-130-7	16082818	
08/28/01 19:58	AR1660L2CF	5-129-7	16082819	
08/28/01 20:23	AR1660L3CD	5-128-7	16082820	
08/28/01 20:48	AR1660L4CF	5-172-7	16082821	

Unless noted, Client Ids are the same for the quant. & confirmation columns

8/30/01 — Verification Signature/Date

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GC Laboratory Run Log - PESTICIDE/PCB

SWOK AATS SWLO-OP-301 OP-301-RUNLOG-11 SWL Rev.#: 2.1

CASE NO.: EPA INJ. VOL: 0.5 uL INSTRUMENT: HP_16
SDG NO. : 47158, 47162, 47166, 47179 METHOD FILE(S): XPCBH28.M (OLM4.2)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
08/28/01 21:12	AR1660L5CF	5-126-7	16082822	OK
08/28/01 21:37	PIBLKCF	5-131-7	16082823	OK
08/28/01 22:01	PBLKSA	BL0823SA	16082824	OK
08/28/01 22:26	PBLKSA	BB0823SA	16082825	NU
08/28/01 22:50	SB082401A	SB082401A	16082826	OK
08/28/01 23:15	SB082401B	SB082401B	16082827	OK
08/28/01 23:40	ELCS1SA	LC0823SA	16082828	OK ~~NOT USED~~
08/29/01 00:04	ELCS2SA	LD0823SA	16082829	OK LCS/LCSD OK 8-30-01
08/29/01 00:29	E00Q9RE	47158.11RE	16082830	RR
08/29/01 00:53	E00Q9REDL	47158.11REDL	16082831	OK
08/29/01 1:18	E00Q1DL	47158.01DL	16082832	OK
08/29/01 1:42	E00Q2DL	47158.02DL	16082833	OK
08/29/01 2:07	E00Q6	47158.08	16082834	OK
08/29/01 2:32	E00Q8DL	47158.10DL	16082835	OK
08/29/01 2:56	E00Q9DL	47158.11DL	16082836	OK
08/29/01 3:21	E00R6DL	47158.18DL	16082837	OK
08/29/01 3:45	E0151DL	47179.13DL	16082838	OK
08/29/01 4:10	E0160DL	47179.22DL	16082839	RR OK 8-30-01
08/29/01 4:34	HEXANE		16082840	—
08/29/01 4:59	HEXANE		16082841	—
08/29/01 5:24	HEXANE		16082842	—

Unless noted, Client Ids are the same for the quant. & confirmation columns

8/30/01 — Verification Signature/Date

8-30-01 — Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-11 SWL Rev.#: 2.1

CASE NO.: EPA INJ. VOL: 0.5 uL INSTRUMENT: HP_16
SDG NO. : 47158, 47162, 47166, 47179 METHOD FILE(S): XPCBH28.M (OLM4.2)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
08/29/01 5:48	PIBLKCF 1 St 9/10/01	5-131-7	16082843	OK
08/29/01 6:13	AR1660L3CE	5-128-7	16082844	OK
08/29/01 6:37	AR1660L3CF	5-128-7	16082845	NU
08/29/01 7:02	PBLKSD	BL0802SD	16082846	OK
08/29/01 7:26	E00W5DL	47162.07DL	16082847	OK
08/29/01 7:51	E00W6DL	47162.08DL	16082848	OK
08/29/01 8:16	E00X3	47162.15	16082849	OK
08/29/01 8:40	E00X3DL	47162.15DL	16082850	OK
08/29/01 9:05	E00X4DL	47162.16DL	16082851	OK
08/29/01 9:29	PBLKSE 1 St 9/10/01	BL0802SE	16082852	OK
08/29/01 9:54	E00Y3DL	47166.03DL	16082853	OK
08/29/01 10:19	E00Y4DL	47166.04DL	16082854	OK
08/29/01 10:43	E00Y5DL	47166.05DL	16082855	OK
08/29/01 11:08	E00Z1	47166.11	16082856	OK
08/29/01 11:33	E00Z1DL	47166.11DL	16082857	OK
08/29/01 11:57	E00Z7	47166.19	16082858	~~OK~~ Use Reextract Data JM 9-7-01
08/29/01 12:22	E00Z7DL	47166.19DL	16082859	~~OK~~
08/29/01 12:47	E0100DL	47166.22DL	16082860	OK
08/29/01 13:11	HEXANE		16082861	—
08/29/01 13:36	HEXANE		16082862	—
08/29/01 14:01	HEXANE		16082863	—

Unless noted, Client Ids are the same for the quant. & confirmation columns

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GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-11 SWL Rev.#: 2.1

CASE NO.: EPA INJ. VOL: 0.5 uL INSTRUMENT: HP_16
SDG NO. : 47158, 47162, 47166, 47179 METHOD FILE(S): XPCBH28.M (OLM4.2)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
08/29/01 14:25	PIBLKCG	5-131-7	16082864	OK
08/29/01 14:50	AR1660L3CG	5-128-7	16082865	OK
08/29/01 15:15	AR1660L3CH	5-128-7	16082866	NU

Unless noted, Client Ids are the same for the quant. & confirmation columns

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Verification Signature/Date Analyst Signature/Date

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GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-11 SWL Rev.#: 2.1

CASE NO.: EPA INJ. VOL: 0.5 uL INSTRUMENT: HP_16
SDG NO. : 47166RE, 47181 METHOD FILE(S): XPCBH31.M (OLM4.2)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
08/31/01 8:57	COND	COND	16083101	NU
08/31/01 9:22	COND	COND	16083102	
08/31/01 9:47	HEXANE	HEXANE	16083103	
08/31/01 10:30	PIBLKCJ	5-131-7	16083104	
08/31/01 10:54	AR1660L3CO	5-210-7	16083105	
08/31/01 11:19	AR1660L3CP	5-210-7	16083106	
08/31/01 16:15	HEXANE	HEXANE	16083107	
08/31/01 16:39	HEXANE	HEXANE	16083108	
08/31/01 17:08	HEXANE	HEXANE	16083109	
08/31/01 17:33	RESCCG	5-171-7	16083110	OK
08/31/01 17:58	AR1221L3CG	5-420-6	16083111	
08/31/01 18:22	AR1232L3CG	5-422-6	16083112	
08/31/01 18:47	AR1242L1CG	5-11-7	16083113	ICAL
08/31/01 19:11	AR1242L2CG	5-10-7	16083114	
08/31/01 19:36	AR1242L3CG	5-9-7	16083115	
08/31/01 20:00	AR1242L4CG	5-8-7	16083116	
08/31/01 20:25	AR1242L5CG	5-7-7	16083117	
08/31/01 20:50	AR1248L3CG	5-424-6	16083118	
08/31/01 21:14	AR1254L1CG	5-6-7	16083119	
08/31/01 21:39	AR1254L2CG	5-5-7	16083120	
08/31/01 22:04	AR1254L3CG	5-4-7	16083121	

Unless noted, Client Ids are the same for the quant. & confirmation columns

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9-4-01
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GC Laboratory Run Log - PESTICIDE/PCB

SWOR/AATS SWLO-OP-301 OP-301-RUNLOG-11 SWL Rev.#: 2.1

CASE NO.: EPA INJ. VOL: 0.5 uL INSTRUMENT: HP_16
SDG NO. : 47166RE, 47181 METHOD FILE(S): XPCBH31.M (OLM4.2)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
08/31/01 22:28	AR1254L4CG	5-3-7	16083122	OK
08/31/01 22:53	AR1254L5CG	5-2-7	16083123	
08/31/01 23:18	AR1660L1CG	5-212-7	16083124	
08/31/01 23:42	AR1660L2CG	5-211-7	16083125	ICAL
09/01/01 00:07	AR1660L3CQ	5-210-7	16083126	
09/01/01 00:32	AR1660L4CG	5-209-7	16083127	
09/01/01 00:56	AR1660L5CG	5-208-7	16083128	
09/01/01 1:21	PIBLKCK	5-131-7	16083129	OK
09/01/01 1:45	PBLKSE	BL0827SE	16083130	N.U.
09/01/01 2:10	PBLKSE/3 st 9/10/01	BB0827SE	16083131	OK
~~09/01/01 2:35~~	~~SB082801A~~	~~SB082801A~~	~~16083132~~	OK 9/10/01
~~09/01/01 2:59~~	~~SB082801B~~	~~SB082801B~~	~~16083133~~	OK
09/01/01 3:24	ELCS1/3 st 9/10/01	LC0827SE	16083134	OK } LCS/LCSD OK
09/01/01 3:49	ELCS2/4 st 9/10/01	LD0827SE	16083135	OK }
09/01/01 4:14	E00Z7RE	47166.19RE	16083136	RR at 1X
09/01/01 4:38	E00Z7REDL	47166.19REDL	16083137	Not Needed
09/01/01 5:03	E00Z9~~RE~~	47166.21~~RE~~ JM 9-9-01	16083138	OK
09/01/01 5:28	E00Z9~~REDL~~ 9/10/01	47166.21~~REDL~~ DL	16083139	OK
09/01/01 5:52	E00Q8DL	47158.10DL	16083140	Not Needed
09/01/01 6:17	HEXANE	HEXANE	16083141	—
09/01/01 6:42	HEXANE	HEXANE	16083142	—

Unless noted, Client Ids are the same for the quant. & confirmation columns

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GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-11 SWL Rev.#: 2.1

CASE NO.: EPA INJ. VOL: 0.5 uL INSTRUMENT: HP_16
SDG NO. : 47166RE, 47181 METHOD FILE(S): XPCBH31.M (OLM4.2)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/01/01 7:06	PIBLKCL	5-131-7	16083143	OK
09/01/01 7:31	AR1660L3CR	5-210-7	16083144	OK
09/01/01 7:56	AR1660L3CS	5-210-7	16083145	NU
09/01/01 8:20	E0189	47181.11	16083146	
09/01/01 8:45	E0190	47181.12	16083147	
09/01/01 9:09	E0191	47181.13	16083148	
09/01/01 9:34	E0192	47181.14	16083149	
09/01/01 9:58	E0193	47181.15	16083150	
09/01/01 10:23	E0194	47181.16	16083151	
09/01/01 10:48	E0195	47181.17	16083152	
09/01/01 11:12	E0196	47181.18	16083153	
09/01/01 11:37	E0197	47181.19	16083154	
09/01/01 12:02	E0198	47181.20	16083155	
09/01/01 12:26	E0199	47181.21	16083156	
09/01/01 12:51	E01A0	47181.22	16083157	
09/01/01 13:15	HEXANE	HEXANE	16083158	
09/01/01 13:40	HEXANE	HEXANE	16083159	
09/01/01 14:05	HEXANE	HEXANE	16083160	
09/01/01 14:29	PIBLKCM	5-131-7	16083161	OK
09/01/01 14:54	AR1660L3CT	5-210-7	16083162	OK
09/01/01 15:19	AR1660L3CU	5-210-7	16083163	NU

Unless noted, Client Ids are the same for the quant. & confirmation columns

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9-9-01
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GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-11 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_16
SDG NO. : SWLO METHOD FILE(S): XPCBI05 (OLM4.2)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/05/01 16:33	HEXANE		16090501	Sol
09/05/01 16:59	HEXANE		16090502	
09/05/01 17:26	HEXANE		16090503	
09/05/01 17:52	HEXANE		16090504	
09/05/01 18:19	HEXANE		16090505	Sol
09/05/01 18:45	RESCCH	5-171-7	16090506	OK
09/05/01 19:11	AR1221L3CH	5-420-6	16090507	
09/05/01 19:38	AR1232L3CH	5-422-6	16090508	
09/05/01 20:04	AR1242L1CH	5-11-7	16090509	
09/05/01 20:31	AR1242L2CH	5-10-7	16090510	
09/05/01 20:57	AR1242L3CH	5-9-7	16090511	
09/05/01 21:23	AR1242L4CH	5-8-7	16090512	
09/05/01 21:50	AR1242L5CH	5-7-7	16090513	
09/05/01 22:16	AR1248L3CH	5-424-6	16090514	
09/05/01 22:42	AR1254L1CH	5-6-7	16090515	
09/05/01 23:09	AR1254L2CH	5-5-7	16090516	
09/05/01 23:35	AR1254L3CH	5-4-7	16090517	
09/06/01 00:01	AR1254L4CH	5-3-7	16090518	
09/06/01 00:28	AR1254L5CH	5-2-7	16090519	
09/06/01 00:54	AR1660L1CH	5-212-7	16090520	
09/06/01 1:20	AR1660L2CH	5-211-7	16090521	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

9-6-01 9-6-01

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GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-11 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_16
SDG NO. : SWLO METHOD FILE(S): XPCBI05 (OLM4.2)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/06/01 1:47	AR1660L3CX	5-210-7	16090522	OK
09/06/01 2:13	AR1660L4CH	5-209-7	16090523	
09/06/01 2:40	AR1660L5CH	5-208-7	16090524	
09/06/01 3:06	PIBLKCO	5-131-7	16090525	OK
09/06/01 3:32	SB081301C	SB081301C	16090526	
09/06/01 3:59	SB081301D	SB081301D	16090527	
09/06/01 4:25	PBLKSD	BL0809SD	16090528	
09/06/01 4:51	PBLKSD	BB0809SD	16090529	
09/06/01 5:18	ELCS1	LC0809SD	16090530	
09/06/01 5:44	ELCS2	LD0809SD	16090531	OK
09/06/01 6:11	47201.01		16090532	w 10X
09/06/01 6:37	47201.02		16090533	
09/06/01 7:03	47201.03		16090534	
09/06/01 7:30	47201.04		16090535	w 10X
09/06/01 7:56	HEXANE		16090536	Sd
09/06/01 8:23	HEXANE		16090537	Sd
09/06/01 8:49	HEXANE		16090538	Sd
09/06/01 9:15	PIBLKCP	5-131-7	16090539	OK
09/06/01 9:42	AR1660L3CY	5-210-7	16090540	OK
09/06/01 10:08	AR1660L3CZ	5-210-7	16090541	w
09/06/01 10:35	E01N5	47201.05	16090542	OK 10X

Unless noted, Client Ids are the ~~same for~~ the quant. & confirmation columns

9-6-01 9621

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GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-11 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_16
SDG NO. : SWLO METHOD FILE(S): XPCBI05 (OLM4.2)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/06/01 11:01	E01N6	47201.06	16090543	OK
09/06/01 11:27	E01N7	47201.07	16090544	
09/06/01 11:54	E00Z7	47166.19	16090545	
09/06/01 12:20	E01N7MS	47201.08MS	16090546	
09/06/01 12:47	E01N7MSD	47201.09MSD	16090547	OK
09/06/01 13:13	HEXANE		16090548	Sol
09/06/01 13:39	HEXANE		16090549	Sol
09/06/01 14:06	HEXANE		16090550	Sol
09/06/01 14:32	PIBLKCQ	5-131-7	16090551	OK
09/06/01 14:59	AR1660L3CA	5-210-7	16090552	NU (out high)
09/06/01 15:27	AR1660L3CB	5-210-7	16090553	OK (out high on 1 column OK per Harry)

Unless noted, Client Ids are the same for the quant. & confirmation columns

9-6-01 9-6-01

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GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-14 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBI04 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/04/01 11:47	HEX	HEX	15090401	Sd
09/04/01 12:10	HEX	HEX	15090402	
09/04/01 12:33	HEX	HEX	15090403	
09/04/01 12:56	HEX	HEX	15090404	d
09/04/01 13:19	HEX	HEX	15090405	Sd
09/04/01 13:42	RESCBG	5-171-7	15090406	OK
09/04/01 14:05	AR1221L3BG	5-420-6	15090407	
09/04/01 14:29	AR1232L3BG	5-422-6	15090408	
09/04/01 14:52	AR1242L1BG	5-11-7	15090409	
09/04/01 15:15	AR1242L2BG	5-10-7	15090410	
09/04/01 15:38	AR1242L3BG	5-9-7	15090411	
09/04/01 16:01	AR1242L4BG	5-8-7	15090412	
09/04/01 16:24	AR1242L5BG	5-7-7	15090413	
09/04/01 16:48	AR1248L3BG	5-424-6	15090414	
09/04/01 17:11	AR1254L1BG	5-6-7	15090415	
09/04/01 17:34	AR1254L2BG	5-5-7	15090416	
09/04/01 17:57	AR1254L3BG	5-4-7	15090417	
09/04/01 18:20	AR1254L4BG	5-3-7	15090418	
09/04/01 18:43	AR1254L5BG	5-2-7	15090419	
09/04/01 19:07	AR1660L1BG	5-212-7	15090420	
09/04/01 19:30	AR1660L2BG	5-211-7	15090421	ok

Unless noted, Client Ids are the same for the quant. & confirmation columns

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9-6-01 — Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK AATS SWLO-OP-415 OP-415-RUNLOG-14 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBI04 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/04/01 19:53	AR1660L3BG	5-210-7	15090422	OK
09/04/01 20:16	AR1660L4BG	5-209-7	15090423	
09/04/01 20:39	AR1660L5BG	5-208-7	15090424	
09/04/01 21:02	PIBLKBW	5-131-7	15090425	
09/04/01 21:25	SB081301A	SB081301A	15090426	
09/04/01 21:48	SB081301B	SB081301B	15090427	
09/04/01 22:12	SB081401A	SB081401A	15090428	
09/04/01 22:35	SB081401B	SB081401B	15090429	
09/04/01 22:58	PBLKSC	BL0809SC	15090430	
09/04/01 23:21	PBLKSC	BB0809SC	15090431	
09/04/01 23:44	PBLKSE	BL0809SE	15090432	
09/05/01 00:07	PBLKSE	BB0809SE	15090433	
09/05/01 00:30	ELCS1	LC0809SC	15090434	
09/05/01 00:53	ELCS2	LD0809SC	15090435	
09/05/01 1:16	ELCS1	LC0809SE	15090436	
09/05/01 1:40	ELCS2	LD0809SE	15090437	OK
09/05/01 2:03	HEX	HEX	15090438	SD
09/05/01 2:26	HEX	HEX	15090439	SD
09/05/01 2:49	HEX	HEX	15090440	SD
09/05/01 3:12	PIBLKBX	5-131-7	15090441	OK
09/05/01 3:35	AR1660L3BL	5-210-7	15090442	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

Blaine Baldy 090601 — Verification Signature/Date

9-6-01 — Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-14 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBI04 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/07/01 9:43	HEX	HEX	15090701	Sol
09/07/01 10:06	PIBLKBF	5-131-7	15090702	OK
09/07/01 10:29	AR1660L3BY	5-210-7	15090703	OK
09/07/01 10:53	AR1660L3BZ	5-210-7	15090704	NV
09/07/01 14:45	PBLKSE/2 St 9/10/01	BL0802SE	15090705	OK
09/07/01 15:08	E00Z2 DL	47166.14 DL	15090706	
09/07/01 15:35	E00Z3 DL	47166.15 DL	15090707	
09/07/01 15:58	E00Z4 DL	47166.16 DL	15090708	OK
09/07/01 16:21	HEX	HEX	15090709	Sol
09/07/01 16:44	HEX	HEX	15090710	Sol
09/07/01 17:07	HEX	HEX	15090711	Sol
09/07/01 17:31	PIBLKBG	5-131-7	15090712	OK
09/07/01 17:54	AR1660L3BA	5-210-7	15090713	OK
09/07/01 18:17	AR1660L3BB	5-210-7	15090714	NV

Unless noted, Client Ids are the same for the quant. & confirmation columns

Jennifer Allman 9-8-01 9-8-01
Verification Signature/Date Analyst Signature/Date

	SV	DD ST • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

[X] RUSH [ ] REEXTRACT [ ] TCLP [ ] DIOXIN

SAMPLE EXTRACTION L

8/3

BATCH: 010802SE

EXTRACT DATE: 2001-08-02 16:26

002912

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		
BL0802SE			S/L				30.00	300	10/5	45	2.0		5.0	5.0	N		1000		
BB0802SE			S/L				30.00	300	10/5	45	2.0		5.0	5.0	N		1000		
LC0802SE			S/L				30.00	300	10/5	45	2.0		5.0	5.0	N	1000	1000		
LD0802SE			S/L				30.00	300	10/5	45	2.0		5.0	5.0	N	1000	1000		
47166.01 GC699	EPA	08/01/2001 08:40 E00Y1	S/L	6.91	6.52	28.3	30.30	300	10/5	45	2.0		5.0	5.0	N		1000		
47166.02 GC699	EPA	08/01/2001 08:40 E00Y2	S/L	7.22	4.65	28.7	30.06	300	10/5	45	2.0		5.0	5.0	N		1000		
47166.03 GC699	EPA	08/01/2001 08:40 E00Y3	S/L	7.32	25.55	22.6	30.29	300	10/5	45	2.0		5.0	5.0	N		1000		
47166.04 GC699	EPA	08/01/2001 08:40 E00Y4	S/L	7.51	27.07	22.0	30.11	300	10/5	45	2.0		5.0	5.0	N		1000		
47166.05 GC699	EPA	08/01/2001 08:40 E00Y5	S/L	7.29	40.40	18.0	30.14	300	10/5	45	2.0		5.0	5.0	N		1000		
47166.06 GC699	EPA	08/01/2001 08:40 E00Y6	S/L	7.31	38.12	18.9	30.50	300	10/5	45	2.0		5.0	5.0	N		1000		
47166.07 GC699	EPA	08/01/2001 08:40 E00Y7	S/L	7.25	7.32	27.9	30.07	300	10/5	45	2.0		5.0	5.0	N		1000		
47166.08 GC699	EPA	08/01/2001 08:40 E00Y8	S/L	7.30	19.47	24.3	30.21	300	10/5	45	2.0		5.0	5.0	N		1000		
47166.09 GC699	EPA	08/01/2001 08:40 E00Y9	S/L	7.54	17.59	24.8	30.08	300	10/5	45	2.0		5.0	5.0	N		1000		
47166.10 GC699	EPA	08/01/2001 08:40 E00Z0	S/L	7.42	15.61	25.6	30.29	300	10/5	45	2.0		5.0	5.0	N		1000		
47166.11 GC699	EPA	08/01/2001 08:40 E00Z1	S/L	7.23	32.28	20.5	30.22	300	10/5	45	2.0		5.0	5.0	N		1000		

INITIALS

WEIGHING:	MC	EXTRACTION:	MC	FLORISIL:
CLEANUP:	CD	KD:	MC	CH2Cl2
BLOWDOWN:	SA	TV:	GS	acetone
SURROG. SPIKER:	MC	VERIFIER:	CR	Hexane
MATRIX SPIKER:	MC	VERIFIER:	CR	
SUBMITTED BY:	SA	REVIEWED BY:		Sep 08/06

ID NUMBERS

FLORISIL CARTRIDGE #:

GPC COLUMN #: 418002 (08-05-01) #3640A

SURROGATES ID CONC #: 5-145-7

MATRIX SPIKE SOLID/CONC #(s): 5-1-7

SOP - METHOD #: SWL-OP- 415 Rev. 1.0

COMMENTS

SB # 080501A
SB # 080501B
Extracts went through S (gel & acid clean-up

[illegible]	[illegible]OD		
	SV	[illegible]ST • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

[X] RUSH [ ] REEXTRACT [ ] TCLP [ ] [illegible]OXIN

SAMPLE EXTRACTION L[illegible]

BATCH: 010802SE

EXTRACT DATE: 2001-08-02 16:26

002912
Page: 2 of 2

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
47166.12MS GC699	EPA	08/01/2001 08:40 E00Z1MS	S/L	7.23	32.28	20.4	30.17	300	10/5	45	2.0		5.0	5.0	N	1000	1000		
47166.13MSD GC699	EPA	08/01/2001 08:40 E00Z1MSD	S/L	7.23	32.28	20.5	30.34	300	10/5	45	2.0		5.0	5.0	N	1000	1000		
47166.14 GC699	EPA	08/01/2001 08:40 E00Z2	S/L	7.55	19.19	24.3	30.13	300	10/5	45	2.0		5.0	5.0	N		1000		
47166.15 GC699	EPA	08/01/2001 08:40 E00Z3	S/L	7.60	15.30	25.5	30.07	300	10/5	45	2.0		5.0	5.0	N		1000		
47166.16 GC699	EPA	08/01/2001 08:40 E00Z4	S/L	7.71	30.15	21.3	30.49	300	10/5	45	2.0		5.0	5.0	N		1000		
47166.17 GC699	EPA	08/01/2001 08:40 E00Z5	S/L	7.78	33.61	20.2	30.50	300	10/5	45	2.0		5.0	5.0	N		1000		
47166.18 GC699	EPA	08/01/2001 08:40 E00Z6	S/L	7.67	40.68	18.0	30.33	300	10/5	45	2.0		5.0	5.0	N		1000		
47166.19 GC699	EPA	08/01/2001 08:40 E00Z7	S/L	7.13	29.68	21.3	30.28	300	10/5	45	2.0		5.0	5.0	N		1000		
47166.20 GC699	EPA	08/01/2001 08:40 E00Z8	S/L	7.30	35.27	19.4	30.00	300	10/5	45	2.0		5.0	5.0	N		1000		
47166.21 GC699	EPA	08/01/2001 08:40 E00Z9	S/L	7.42	34.60	19.8	30.30	300	10/5	45	2.0		5.0	5.0	N		1000		
47166.22 GC699	EPA	08/01/2001 08:40 E0100	S/L	7.35	38.54	18.6	30.31	300	10/5	45	2.0		5.0	5.0	N		1000		

INITIALS

WEIGHING:	SA	EXTRACTION:	MC	FLORISIL:
CLEANUP:	CD	KD:	MC	CH_2Cl_2
BLOWDOWN:	SA	TV:	GS	acetone
SURROG. SPIKER:	MC	VERIFIER:	CR	Hexane
MATRIX SPIKER:	MC	VERIFIER:	CR	
SUBMITTED BY:	SA	REVIEWED BY:		

ID NUMBERS

FLORISIL CARTRIDGE #:

GPC COLUMN #: 418002 (08-05-01) #3640A

SURROGATES ID CONC #: 5-145-7

MATRIX SPIKE SOLID/CONC #(s): 5-1-7

SOP - METHOD # : SWL-OP- 415 Rev. 1.0

COMMENTS

SB # 080501A
SB # 080501B
Extracts went through S/gel & acid clean-up

PG 28 Book. 1 Page

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.
08/04	7:55p	47084.14, 16	EPA	SA	Y	GC699	X
08/04	7:55p	47085.04-06, 16, 20, 21	EPA	SA	Y	GC699	X
		47208 01-02	Nissell		N	GC610	2
08/06	10:15p	47160.01-22 MS, MSD	EPA	SA	N	GC699	22
08/06	10:15p	47162.01-22 MS, MSD	EPA	SA	N	GC699	22
08/06	10:15p	47166.01-22 MS, MSD	EPA	SA	N	GC699	22
08/06	10:15p	47171.01-19 MS, MSD	EPA	SA	N	GC699	19
08/06	10:15p	47178.01-03	EPA	SA	N	GC699	3

831

Southwest Laboratory of Oklahoma
1700 W. Albany Suite C
Broken Arrow, OK 74012-1421

INTERNAL CHAIN OF CUSTODY

Date	8/1/01
Episode	**47166**
Client	**EPA**
Project	OLM04.2
Received	08/01/01

Test Code	Cont ID	#	#	#	#	#	#	#	Date/Time Out	Analyst	Date/Time In
		(Circle the Sample Numbers Checked out)									
GC699	A	1	2	3	4	5	6	7	08-02/11:20	MC	08-02/7:15
		8	9	10	11	12	13	14			
		15	16	17	18	19	20	21			
		22							8/3 8:40		8/3 10:36
IN660	A	1	2	3	4	5	6	7			
		8	9	10	11	12	13	14			
		15	16	17	18	19	20	21			
		22									

	SV	ST • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

[X] RUSH [X] REEXTRACT [ ] TCLP [ ] DIOXIN

SAMPLE EXTRACTION L

BATCH: 010827SE

EXTRACT DATE: 2001-08-27 13:30

003025

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
BL0827SE			S/L				30.00	300	10/5	45	2.0		5.0	5.0	N		1000		
BB0827SE			S/L				30.00	300	10/5	45	2.0		5.0	5.0	N		1000		
LC0827SE			S/L				30.00	300	10/5	45	2.0		5.0	5.0	N	1000	1000		
LD0827SE			S/L				30.00	300	10/5	45	2.0		5.0	5.0	N	1000	1000		
47166.19 GC699	EPA	08/01/2001 08:40 E00Z7	S/L	7.13	29.68	21.6	30.72	300	10/5	45	2.0		5.0	5.0	N		1000		
47166.21 GC699	EPA	08/01/2001 08:40 E00Z9	S/L	7.42	34.60	19.7	30.13	300	10/5	45	2.0		5.0	5.0	N		1000		

INITIALS

WEIGHING:	MC	EXTRACTION:	MC	FLORISIL:	
CLEANUP:	CD	KD:	BTB		CH2Cl2
BLOWDOWN:	SA	TV:	GS		Acetone
SURROG. SPIKER:	BTB	VERIFIER:	MC		Hexane
MATRIX SPIKER:	BTB	VERIFIER:	MC		
SUBMITTED BY:	SA	REVIEWED BY:			08/29

ID NUMBERS

FLORISIL CARTRIDGE #:

GPC COLUMN #: 418002 (08-28-01) #3640A

SURROGATES ID CONC #: 5-157-7

MATRIX SPIKE SOLID/CONC #(s): 5-146-7

SOP - METHOD # : SWL-OP- 415 Rev. 1.0

COMMENTS

SB # 082801A
SB # 082801B
Extracts went through sfgel & acid clean-up

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.
08/24	9:30	47280.01-22 ms/msd	EPA	SA	N	GC699	22
08/26	6:38	47158.11	EPA	SA	Y	GC699	X
08/26	6:38	47352.01-06 MS,MSD	EPA	SA	N	GC699	6
8/27	10.00a	47377.01-07	Enkefe-D	GS	N	GC341	7
8/27	4:30p	47400.01-07. ms msd	Adlittle	GS	N	GC310	7
08/27	9:00p	47281.01-22 MS,MSD	EPA	SA	N	GC699	22
08/27	9:00p	47282.01-03	EPA	SA	N	GC699	3
08/27	9:00p	47292.01-19 MS,MSD	EPA	SA	N	GC699	19
08/28	8:00p	47294.01-16 MS, MSD	EPA	SA	N	GC699	16
08/28	8:00p	47293.01-22 MS,MSD	EPA	SA	N	GC699	22
8/29	11:50a	47404-01-11, 13, 14, ms msd	Tetpitt	GS	N	GC299 = 200	13
↓	↓	47405.05-10	↓	↓	↓	↓	6
08/29	5:40p	47166.19, 21	EPA	SA	Y	Re GC699	X
08/29	5:40p	47316.01-22 MS,MSD	EPA	SA	N	GC699	22
08/29	5:40p	47320.01-05,07-09,11-22 MS,MSD	EPA	SA	N	GC699	22
8/30	4:45p	47413.01-05, 07-13. ms msd	Malpiral	GS	N	GC340	12
08/30	7:45p	47404.16, 17	TETPITT	SA	N	GC699	2
08/30	7:45	47419.02, 03, 05	TETPITT	SA	N	GC699	3
08/30	7:45	47404.16, 17	TETPITT	SA	N	GC899	2
08/30	7:45	47419. 02, 03, 05	TETPITT	SA	N	GC899	3
08/30	7:45	47404.01-03, 06-07, 09, 10 MS, MSD 13	TETPITT	SA	N	GC699	5
08/30	7:45	47405.05, 06, 08, 09	TETPITT	SA	N	GC699	3
08/30	7:45	47404.01-03, 06-07, 09-11 MS,MSD 13	TETPITT	SA	N	GC899	9
08/30	7:45	47405. 05, 06, 08, 09	TETPITT	SA	N	GC898	4
4/30	4:00	47302.02	Tetp.H	[illegible]	N	GC599	1
4/30	4:00	47302 01-11	Tetp.H	[illegible]	N	GC599	11

834

300

000

FedEx USA Airbill FedEx Tracking Number 821876980330 Form I.D. No. 0215

EAG11

RECIPIENT: PEEL HERE

1 From This portion can be removed for Recipient's records.

Date FedEx Tracking Number 821876980330

Sender's Name RICK MEHL Phone 847 918-4000

Company ROY F WESTON INC

Address 450 OLD SKOKIE ROAD

Dept./Floor/Suite/Room

City PARK CITY State IL ZIP 60085

2 Your Internal Billing Reference 12634.001.001.0067.00

3 To

Recipient's Name MR. HARRY BORG Phone 981251 0545

Company SOUTHWEST LABS OF OKLAHOMA

Address 1700 WEST ALBANY, SUITE 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

08/01/01 8:40

8218 7698 0330

0146095931

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 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 $50

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [x] Other Pkg. — Includes 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. [ ] Obtain Recip. Acct. No.

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages	Total Weight		Total Charges
1	125		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 (800-463-2339)

Visit our Web site at www.fedex.com

Rev. Date 3/00 • Part #155912 • ©1994-2000 FedEx • PRINTED IN U.S.A. GBFE 5/00

402

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN

CSF 29546 SDG E00Q1

Signature S Dackett

Date 8/2/01

835

294

1000

FedEx USA Airbill FedEx Tracking Number 821876980270

Form I.D. No. 0215

SP 011

RECIPIENT: PEEL HERE

1 From This portion can be removed for Recipient's records.

Date 7.31.01 FedEx Tracking Number 821876980270

Sender's Name RICK MEHL Phone 847 918-4000

Company ROY F WESTON INC

Address 450 OLD SKOKIE ROAD [redacted]

Dept./Floor/Suite/Room

City PARK CITY [redacted] State IL [redacted] ZIP 60085 [redacted]

2 Your Internal Billing Reference 12634.001.001.0067.00

3 To

Recipient's Name MR. HARRY BORG Phone 981 251-0545

Company SOUTHWEST LABS OF OKLAHOMA

Address 1700 WEST ALBANY [redacted]

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes

SUITE C

Dept./Floor/Suite/Room

City BROKEN ARROW State OK ZIP 60085 74012

[signature] 08/01/01 8:40

8218 7698 0270

0146095931

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 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 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. [ ] Obtain Recip. Acct. No.

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

[redacted]

Total Packages 1 Total Weight 77 [redacted] 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)

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402

ORIGINAL DOCUMENTS ARE INCLUDED IN

CSF 29546 SDG E00Q1

Signature S Dackett

Date 8/2/01

836

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

Case No:	29546
DAS No:	
SDG No:	E00Y6 8/3/01

L

Date Shipped:	7/31/2001
Carrier Name:	FedEx
Airbill:	821876980270
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	7-31-01 1730	2	8-1-01 8:40
2		3	
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 E00Y1
E00Y1	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038299 (Ice Only) (1)	AP-SL029-33-03	S:	7/30/2001	14:30		OK
E00Y2	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038300 (Ice Only) (1)	AP-SL029-33-04	S:	7/30/2001	14:40		8-1-01
E00Y3	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038301 (Ice Only) (1)	AP-SL029-34-01	S:	7/30/2001	16:10		
E00Y4	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038302 (Ice Only) (1)	AP-SL029-34-02	S:	7/30/2001	16:15		
E00Y5	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038303 (Ice Only) (1)	AP-SL029-34-03	S:	7/30/2001	16:20		
E00Y6	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038304 (Ice Only) (1)	AP-SL029-34-04	S:	7/30/2001	16:50		
E00Y7	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038305 (Ice Only) (1)	AP-SL029-34-05	S:	7/30/2001	16:55		
E00Y8	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038306 (Ice Only) (1)	AP-SL029-34-06	S:	7/30/2001	16:55		
E00Y9	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038307 (Ice Only) (1)	AP-SL029-34-07	S:	7/30/2001	17:00		
E00Z0	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038308 (Ice Only) (1)	AP-SL029-34-07DP	S:	7/30/2001	17:00		

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:
	E00Q2, E00S3, E00W1		5.4 T.B.	177814, 177815

Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y
PCBs = PCBs				

No Seals

R Number: 5-490998136-073101-0001

LABORATORY COPY

R provides preliminary results. Requests for preliminary results will increase analytical costs.
nd 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: 29546
DAS No:
SDG No: E00Y1

L

Date Shipped: 7/31/2001
Carrier Name: FedEx
Airbill: 821876980330
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	7.31.01 1730		8-01-01 8:40
2			
3			
4			

For Lab Use Only

Lab Contract No: WSW99078
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 E00Y1
E00Z1	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038309 (Ice Only) (1)	AP-SL029-11-01	S: 7/31/2001 8:20		ok
E00Z2	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038310 (Ice Only) (1)	AP-SL029-11-02	S: 7/31/2001 8:22		
E00Z3	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038311 (Ice Only) (1)	AP-SL029-11-03	S: 7/31/2001 8:27		8-1-01
E00Z7	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038315 (Ice Only) (1)	AP-SL029-11-07	S: 7/31/2001 9:10		
E00Z8	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038316 (Ice Only) (1)	AP-SL029-19-01	S: 7/31/2001 10:40		
E00Z9	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038317 (Ice Only) (1)	AP-SL029-19-02	S: 7/31/2001 10:42		
E00Z4	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038312 (Ice Only) (1)	AP-SL029-11-04	S: 7/31/2001 8:27		
E00Z5	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038313 (Ice Only) (1)	AP-SL029-11-05	S: 7/31/2001 8:35		
E00Z6	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038314 (Ice Only) (1)	AP-SL029-11-06	S: 7/31/2001 8:58		
* E0100	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	038318 (Ice Only) (1)	AP-SL029-19-03	S: 7/31/2001 10:47		

* SDG Final Sample

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:
	E00Z1, E0102, E0121		2.1 TB.	177816, 177817

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

R Number: 5-490998136-073101-0002

LABORATORY COPY

R provides preliminary results. Requests for preliminary results will increase analytical costs.
nd 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

RECEIVED BY ____ DATE 8-1-01

Date 8/1/01 Page 1
Episode **47166**
Client **EPA**
Project OLM04.2
Received 08/01/01
Logged In 08/01/01

TEST	PRI	DUE	CONTAINER	DESCRIPTION	EXTRACTED	ANALYST	ANALYZED
Sample: **47166.01**		Sampled:07/30/01	14:30	ID:E00Y1	SDG:E00Y1	Matrix: S	Containers: 1
GC699	6	08/07/2001	A	NON STD PCB			
IN660	8	08/03/2001	A	% MOISTURE			
Sample: **47166.02**		Sampled:07/30/01	14:40	ID:E00Y2	SDG:E00Y1	Matrix: S	Containers: 1
GC699	6	08/07/2001	A	NON STD PCB			
IN660	8	08/03/2001	A	% MOISTURE			
Sample: **47166.03**		Sampled:07/30/01	16:10	ID:E00Y3	SDG:E00Y1	Matrix: S	Containers: 1
GC699	6	08/07/2001	A	NON STD PCB			
IN660	8	08/03/2001	A	% MOISTURE			
Sample: **47166.04**		Sampled:07/30/01	16:15	ID:E00Y4	SDG:E00Y1	Matrix: S	Containers: 1
GC699	6	08/07/2001	A	NON STD PCB			
IN660	8	08/03/2001	A	% MOISTURE			
Sample: **47166.05**		Sampled:07/30/01	16:20	ID:E00Y5	SDG:E00Y1	Matrix: S	Containers: 1
GC699	6	08/07/2001	A	NON STD PCB			
IN660	8	08/03/2001	A	% MOISTURE			
Sample: **47166.06**		Sampled:07/30/01	16:50	ID:E00Y6	SDG:E00Y1	Matrix: S	Containers: 1
GC699	6	08/07/2001	A	NON STD PCB			
IN660	8	08/03/2001	A	% MOISTURE			
Sample: **47166.07**		Sampled:07/30/01	16:55	ID:E00Y7	SDG:E00Y1	Matrix: S	Containers: 1
GC699	6	08/07/2001	A	NON STD PCB			
IN660	8	08/03/2001	A	% MOISTURE			
Sample: **47166.08**		Sampled:07/30/01	16:55	ID:E00Y8	SDG:E00Y1	Matrix: S	Containers: 1
GC699	6	08/07/2001	A	NON STD PCB			
IN660	8	08/03/2001	A	% MOISTURE			
Sample: **47166.09**		Sampled:07/30/01	17:00	ID:E00Y9	SDG:E00Y1	Matrix: S	Containers: 1
GC699	6	08/07/2001	A	NON STD PCB			
IN660	8	08/03/2001	A	% MOISTURE			
Sample: **47166.10**		Sampled:07/30/01	17:00	ID:E00Z0	SDG:E00Y1	Matrix: S	Containers: 1
GC699	6	08/07/2001	A	NON STD PCB			
IN660	8	08/03/2001	A	% MOISTURE			
Sample: **47166.11N1**		Sampled:07/31/01	08:20	ID:E00Z1	SDG:E00Y1	Matrix: S	Containers: 1
GC699	6	08/07/2001	A	NON STD PCB			
IN660	8	08/03/2001	A	% MOISTURE			
Sample: **47166.12MS1**		Sampled:07/31/01	08:20	ID:E00Z1MS	SDG:E00Y1	Matrix: S	Containers: 1
GC699	6	08/07/2001	A	NON STD PCB			
IN660	8	08/03/2001	A	% MOISTURE			
Sample: **47166.13SD1**		Sampled:07/31/01	08:20	ID:E00Z1MSD	SDG:E00Y1	Matrix: S	Containers: 1
GC699	6	08/07/2001	A	NON STD PCB			
IN660	8	08/03/2001	A	% MOISTURE			
Sample: **47166.14**		Sampled:07/31/01	08:22	ID:E00Z2	SDG:E00Y1	Matrix: S	Containers: 1
GC699	6	08/07/2001	A	NON STD PCB			

Southwest Laboratory of Oklahoma
1700 W. Albany Suite C
Broken Arrow, OK 74012-1421

SAMPLE LOG-IN RECORD

Date 8/1/01 Page2
Episode **47166**
Client **EPA**
Project OLM04.2
Received 08/01/01
Logged In 08/01/01

TEST	PRI	DUE	CONTAINER	DESCRIPTION	EXTRACTED	ANALYST	ANALYZED
IN660	8	08/03/2001	A	% MOISTURE			
Sample: **47166.15**		Sampled:07/31/01 08:27		ID:E00Z3	SDG:E00Y1	Matrix: S	Containers: 1
GC699	6	08/07/2001	A	NON STD PCB			
IN660	8	08/03/2001	A	% MOISTURE			
Sample: **47166.16**		Sampled:07/31/01 08:27		ID:E00Z4	SDG:E00Y1	Matrix: S	Containers: 1
GC699	6	08/07/2001	A	NON STD PCB			
IN660	8	08/03/2001	A	% MOISTURE			
Sample: **47166.17**		Sampled:07/31/01 08:35		ID:E00Z5	SDG:E00Y1	Matrix: S	Containers: 1
GC699	6	08/07/2001	A	NON STD PCB			
IN660	8	08/03/2001	A	% MOISTURE			
Sample: **47166.18**		Sampled:07/31/01 08:58		ID:E00Z6	SDG:E00Y1	Matrix: S	Containers: 1
GC699	6	08/07/2001	A	NON STD PCB			
IN660	8	08/03/2001	A	% MOISTURE			
Sample: **47166.19**		Sampled:07/31/01 09:10		ID:E00Z7	SDG:E00Y1	Matrix: S	Containers: 1
GC699	6	08/07/2001	A	NON STD PCB			
IN660	8	08/03/2001	A	% MOISTURE			
Sample: **47166.20**		Sampled:07/31/01 10:40		ID:E00Z8	SDG:E00Y1	Matrix: S	Containers: 1
GC699	6	08/07/2001	A	NON STD PCB			
IN660	8	08/03/2001	A	% MOISTURE			
Sample: **47166.21**		Sampled:07/31/01 10:42		ID:E00Z9	SDG:E00Y1	Matrix: S	Containers: 1
GC699	6	08/07/2001	A	NON STD PCB			
IN660	8	08/03/2001	A	% MOISTURE			
Sample: **47166.22**		Sampled:07/31/01 10:47		ID:E0100	SDG:E00Y1	Matrix: S	Containers: 1
GC699	6	08/07/2001	A	NON STD PCB			
IN660	8	08/03/2001	A	% MOISTURE			

SAMPLE LOG-IN SHEET

Lab Name: SOUTHWEST LABORATORY OF OKLAHOMA	Page 1 of 2
Received by (Print Name): JASON SPRIGGS	Log-In Date: 2001-08-01 14:35
Received by (Signature):	
Case Number: 29546	Sample Delivery Group No.: E00Y1
	~~SAS Number~~

Remarks: Cooler: 08/01/01-1

1. Custody Seals(s)	~~Present/Absent*~~ ~~Intact/ Broken~~ NA JW 08/01/01
2. Custody Seal Nos.	~~177816, 177817~~ JW 08/01/01 NO SEALS
3. Chain-of Custody Records	Present/Absent*
4. Traffic Reports or Packing Lists	Present/Absent*
5. Airbill	Airbill/ Sticker Present/Absent*
6. Airbill No.	821876980330, 980270
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	08/01/01
12. Time Received	08:40

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment: etc,
E00Y1	038299	47166.01	OK
E00Y2	038300	47166.02	JW 08/01/01
E00Y3	038301	47166.03	
E00Y4	038302	47166.04	
E00Y5	038303	47166.05	
E00Y6	038304	47166.06	
E00Y7	038305	47166.07	
E00Y8	038306	47166.08	
E00Y9	038307	47166.09	
E00Z0	038308	47166.10	

Referenced wrong airbill # on COC - correct airbill # logged. JW 08/01/01

Sample Transfer	
Fraction: PCB	Fraction:
Area #: 9	Area #:
By: JW	By:
On: 08/01/01	On:

* Contact SMO and attach record of resolution.

Reviewed By:	~~Logbook No.~~
Date: 8-1-01	Logbook Page No.

FORM-DC1 OLM04.2

SAMPLE LOG-IN SHEET

Lab Name SOUTHWEST LABORATORY OF OKLAHOMA	Page 2 of 2
Received by (Print Name) JASON SPRIGGS	Log-In Date 2001-08-01 14:35
Received by (Signature)	
Case Number 29546	Sample Delivery Group No. E00Y1 / SAS Number

Remarks: Cooler: 08/01/01-2

1. Custody Seals(s)	Present/Absent* Intact/ Broken
2. Custody Seal Nos.	177816, 177817
3. Chain-of Custody Records	Present/Absent*
4. Traffic Reports or Packing Lists	Present/Absent*
5. Airbill	Airbill/ Sticker Present/Absent*
6. Airbill No.	821876980330, 821876 980270
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	2.1c
10. Does Information on Custody records, traffic reports, and sample tags agree?	Yes/ No*
11. Date Received at Lab	08/01/01
12. Time Received	08:40

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment: etc,
E00Z1	038309	47166.11	OK
E00Z1MS	038309	47166.12	JW 08/01/01
E00Z1MSD	038309	47166.13	
E00Z2	038310	47166.14	
E00Z3	038311	47166.15	
E00Z4	038312	47166.16	
E00Z5	038313	47166.17	
E00Z6	038314	47166.18	
E00Z7	038315	47166.19	
E00Z8	038316	47166.20	
E00Z9	038317	47166.21	
E0100	038318	47166.22	

referenced wrong airbill # on coc. Correct airbill # logged. JW 08/01/01

Sample Transfer	
Fraction PCB	Fraction
Area # 9	Area #
By JW	By
On 08/01/01	On

* Contact SMO and attach record of resolution.

Reviewed By	Logbook No.
Date 8-1-01	Logbook Page No.

FORM-DC1 OLM04.2

Harry Borg
From: Bauer, Heather [Heather.Bauer@dyncorp.com]
Sent: Wednesday, August 01, 2001 3:11 PM
To: Harry Borg (E-mail)
Cc: Howard Pham (E-mail); Tonya Balla (E-mail)
Subject: Region 05 | Case 29546 | Lab SWOK | Issue Missing Custody Seals | FINAL

Harry,
Following is the resolution from Region 5. Per the Region, the lab should note the issue in the case narrative and proceed with the analysis of the samples. Please let me know if you have any other questions or problems.

Thanks,
Heather

Heather Bauer
DynCorp
(703)264-9348

-----Original Message-----

From: Pham.Howard@epamail.epa.gov [mailto:Pham.Howard@epamail.epa.gov]
Sent: Wednesday, August 01, 2001 3:52 PM
To: Bauer, Heather
Subject: Re: Region 05 | Case 29546 | Lab SWOK | Issue Missing Custody Seals

HI Heather,
Please ask the lab proceed the analyses with a note in the case narrative.
Thanks,
Howard Pham

"Bauer, Heather" <Heather.Bauer@dyncorp.com>

To: Howard Pham/R5/USEPA/US@EPA
Subject: Region 05 | Case 29546 | Lab SWOK | Issue Missing Custody Seals
08/01/2001 01:18 PM
Please respond to "Bauer, Heather"

Howard,

Following is the response from the sampler. Please advise on how the lab should proceed as quickly as possible.

Thanks,
Heather

Heather Bauer
DynCorp
(703)264-9348

-----Original Message-----

From: Balla, Tonya [mailto:ballat@mail.rfweston.com]
Sent: Wednesday, August 01, 2001 2:10 PM
To: Bauer, Heather
Subject: RE: Region 05 | Case 29546 | Lab SWOK | Issue Missing Custody Seals

I spoke with the field team and they confirmed the presence of custody seals prior to shipment. Please note the problem in the lab narrative.

Thanks
Tonya Balla

-----Original Message-----

From: **Bauer, Heather [mailto:Heather.Bauer@dyncorp.com]**
Sent: Wednesday, August 01, 2001 10:04 AM
To: Howard Pham (E-mail); Tonya Balla (E-mail)
Subject: Region 05 | Case 29546 | Lab SWOK | Issue Missing Custody Seals

Following is an e-mail from SWOK regarding Case 29546. Please advise on how the lab should proceed as quickly as possible.

Thanks,
Heather

Heather Bauer
DynCorp
(703)264-9348

-----Original Message------

From: **hborg@swlab.com [mailto:hborg@swlab.com]**
Sent: Wednesday, August 01, 2001 10:30 AM
To: Bauer, Heather
Subject: Region 5, Case # 29546, samples received 8/1/01

Heather,

Today we received 2 coolers for this case. One of the coolers did not have custody seals attached. The traffic reports have custody seal numbers on them, but they did not arrive on the cooler. The cooler was taped shut.

The laboratory will proceed with logging in the samples and note problem in SDG narrative.

Harry M. Borg
Organic Program Manager
SWOK

Harry Borg
From: Bauer, Heather [Heather.Bauer@dyncorp.com]
Sent: Friday, August 24, 2001 3:53 PM
To: Harry Borg (E-mail)
Cc: Howard Pham (E-mail); Tonya Balla (E-mail)
Subject: Requesting modification for FRACTION: PEST (modification PCB-REG5) a...

Harry,
Following is the resolution from Region 5. Per the Region, the lab should proceed with the dilutions as recommended. However, the lab should continue to re-extract the samples and re-analyze when the DCB surrogate is outside the QC limits as per the analytical method. Please note the issues in the case narrative and let me know if you have any other questions or problems.

Thanks,
Heather

Heather Bauer
DynCorp
(703)264-9348

-----Original Message-----

From: H161259@aol.com [mailto:H161259@aol.com]
Sent: Friday, August 24, 2001 4:08 PM
To: Bauer, Heather
Subject: Re: FW: Requesting modification for FRACTION: PEST (modification PCB-REG5) a...

Hi Heather,

Please ask the proceed the analyses with the dilution as they recommended, however, they should reextraction the sample with DCB is out of the limits as Linda's resolution.

Thanks,

Howard Pham

-----Original Message-----

From: Heather Bauer [mailto:heather.bauer@dyncorp.com]
Sent: Friday, August 24, 2001 2:55 PM
To: 'Howard at home (E-mail)'
Subject: FW: Requesting modification for FRACTION: PEST (modification PCB-REG5) analyses, Case # 29546,29602 & 29658
Importance: High

Howard,

Following is the response from the sampler. Please advise on how the lab should proceed as quickly as possible.

Thanks,
Heather

Heather Bauer
DynCorp
(703)264-9348

-----Original Message-----

From: **Mark and Tonya Balla [mailto:ballamt@voyager.net]**
Sent: Sunday, August 26, 2001 2:35 PM
To: Bauer, Heather; Howard at home (E-mail)
Cc: short.thomas@epamail.epa.gov; mehlr@mail.rfweston.com
Subject: RE: Requesting modifcation for FRACTION: PEST (modification PCB-REG5) analyses, Case # 29546,29602 & 29658
Importance: High

Howard,

I forwarded on the request to our START QA/QC officer/chemist and her thoughts are included below. If the dilution procedure is modified, please ensure that the laboratory includes this in all applicable data package narratives to aid with data validation.

Thanks
Tonya Balla
Roy F. Weston

> ----------
From: **Korobka, Linda**
Sent: Friday, August 24, 2001 2:13:00 PM
To: Balla, Tonya
Cc: Korobka, Linda
Subject: Modification for PCB analyses for Allied Paper Site samples
Auto forwarded by a Rule

Tonya,

It is my professional opinion that the modification to the dilution procedure for the PCB analyses performed on the Allied Paper Site samples as described by Harry Borg (SWOK Organic Program Manager) is acceptable and should give WESTON and the U.S. EPA acceptable results.

However, I do not agree with changing the DCB surrogate requirement for

re-extracting when the DCB recovery is outside the QC limits high. I feel

that the lab should continue to re-extract the samples and re-analyze when the DCB surrogate is outside the QC limits as per the analytical method.

Linda Korobka
Roy F. Weston, Inc.
Suite 100
2501 Jolly Road
Okemos, Michigan 48864
Telephone: (517) 381-5936

-----Original Message-----

From: **Bauer, Heather [mailto:Heather.Bauer@dyncorp.com]**
Sent: Friday, August 24, 2001 10:24 AM
To: Howard at home (E-mail); Tonya Balla (E-mail)
Subject: FW: Requesting modifcation for FRACTION: PEST (modification PCB-REG5) analyses, Case # 29546,29602 & 29658

> ---

From: **Bauer, Heather[SMTP:HEATHER.BAUER@DYNCORP.COM]**
Sent: Friday, August 24, 2001 11:23:43 AM
To: Howard at home (E-mail); Tonya Balla (E-mail)
Subject: FW: Requesting modifcation for FRACTION: PEST (modification PCB-REG5) analyses, Case # 29546,29602 & 29658
Auto forwarded by a Rule

Howard,

Following is an e-mail from SWOK regarding the Allied Paper site. Please advise on how the lab should proceed as quickly as possible.

Thanks,
Heather

Heather Bauer
DynCorp
(703)264-9348

-----Original Message-----

From: **hborg@swlab.com [mailto:hborg@swlab.com]**
Sent: Friday, August 24, 2001 10:41 AM
To: Bauer, Heather
Cc: smith.terry@epa.gov; rharris@swlab.com
Subject: Requesting modifcation for FRACTION: PEST (modification PCB-REG5) analyses, Case # 29546,29602 & 29658

Heather,

Please check with region 5 to see if we can make the following modifications for the analyses of these PCB samples. The majority of the samples analyzed to up to this time are requiring dilutions for PCBs ranging from 10 to 100 fold. Method OLM04.2 requires a minimum of a 10 fold more concentrated extract analyses when dilutions are done. The laboratory is requesting a wavier or modification to forgo this requirement. This will allow the laboratory to do original dilutions on the samples and only run them more concentrated if aroclors are not detected within the instruments calibration range. This will speed up the analytical process and also reduce the cost to the region.

The laboratory would also like the region to review the DCB surrogate requirement for re-extracting when the DCB recovery is outside of QC limits high. To date the majority of all re-extracts taken place for this reason have duplicate the original analyses. At his time the laboratory is only sending the samples back for re-extract when the surrogate is outside of limits on both columns.

This will also help speed up the analytical process and help reduce the cost to the region.

Harry M. Borg
Organic Program Manager
SWOK

Required OLM04.2 Changes

OLM04.2 requires contract laboratories to analyze samples for Pesticides and Aroclors through the protocol outlined in Exhibit D, Analytical Methods for Pesticides/Aroclors. Specific target analytes and their associated contract required quantitation limits (CRQL) are listed in Exhibit C, Section 3.0, page C-8 of OLM04.2.

The proposed modified analysis will require the laboratory to use sample cleanup and analysis techniques not currently written into OLM04.2. The cleanup techniques to be used should generally follow guidelines for Silica Gel cleanup as presented in SW 846 Method 3630, followed by Sulfuric acid cleanup as presented in SW 846 method 3665A, and the analytical technique should generally follow PCB GC guidelines presented in SW 846 Method 8082.

Because the particular cleanup technique is destructive to certain pesticide compounds that are target analytes of OLM04.2, isolation, quantitation, and reporting of pesticides compounds for this project is not required. Only the list of Aroclors presented in Exhibit C, Section 3 is to be analyzed and reported. Further, the need to perform the Florisil cleanup technique presented in Exhibit D/Pest is waved. However, the lab is required to still perform the GPC cleanup presented in Exhibit D/Pest.

For calibration purposes the following procedural and Quality Assurance requirements must be followed:

a. A 5-point calibration curve for combined aroclors 1016/1260 and single mid-level points for all other arochlors are to be analyzed prior to any sample analysis. For the 5-point analysis, the low point on the curve nust reflect the required CRQL.

b. The 5 point curve must meet an average 20 % RSD

c. If other arochlors are suspected, or other arochlors are detected in an analysis, a separate 5-point calibration must be run for the particular arochlor. The 20 % RSD requirement will apply to any other arochlor 5-point analysis performed.

d. A continuing calibration verification standard of arochlors 1016/1260 must be analyzed every 12 hours of analysis and not to exceed 20 samples.

e. The continuing calibration verification analysis must be within 15% of the expected value. If the % difference is greater than 15%, all samples analyzed prior to the continuing calibration verification must be reanalyzed.

f. Each extraction batch must contain method blanks, laboratory control spike and matrix spike/matrix spike duplicate samples (provided sufficient sample is sent for the matrix spike and duplicate analysis).

g. Each field sample and quality control sample must contain Decachlorobiphenyl surrogate (DCB). Samples may be spiked with TMX surrogate as well, but no recovery requirements will be placed on the TMX, as this compound is sensitive to sulfuric acid cleanup.

h. All samples failing to meet DCB recovery limits of 30% to 170% must be re-extracted and re-analyzed.

i. For the laboratory control spike, arochlor 1254 is to be used. The results of the laboratory control sample should fall between the recovery limits of 29 to 135 %. If the recovery falls below 29%, all samples within the

extraction batch must be re-extracted and re-analyzed. If the recovery is above 135% and arochlors are not detected in the batch sample, then no further action is necessary. If the recovery is above 135% and arochlors are present in any of the batch samples, then the samples containing arochlor must be re-extracted and re-analyzed.

j. Arochlor 1254 is to be used for the matrix spike and duplicate analyses. Advisory limits are 29% to 135% are set for the matrix spike and duplicate analysis. As these limit are only advisory, no particular action is required for QC samples outside these limits. However, consistent recovery outside these limits for analysis in which no apparent matrix interference is present may justify a review by EPA personnel, and the laboratory may be requested to repeat certain analyses at no further cost to the government.

k. Some, or all, samples may require a reporting CRQL of 25 ug/Kg (33 ug/Kg is the OLM04.2 required CRQL). For these samples, the laboratory must extract 40 grams of sample, as opposed to the normal 30 grams. Also, extra sodium sulfate may have to be added to the sample in order to dry the sample properly.

l. For reporting purposes, the laboratory is to provide a standard CLP data package at the turnaround time requested by the Region. Modifications to reporting requirements due to the changes presented in this modification request form shall be incorporated into the hard copy deliverables and into the electronic diskette where practical and easily accommodated. All CLP forms associated with florisil cleanup, and GPC check analysis are not required. Any other reporting requirements, not mentioned in this document which the lab believes is affected by the modifications required for this project shall be noted in the case narrative. All hard copy and electronic reporting requirements not affected by these modifications shall be subjected to CCS. The Organic Program Manager will make recommendations to the Contracting Officer as to any disputes concerning CCS defects charged against samples.

While not required in the final data package, the laboratory should keep on file in the lab, the SOPs used to perform the Acid and Silica Gel cleanup techniques. Also, the lab should include copies of this modification request forms in the final hard copy data packages.

SOUTHWEST LABORATORY OF OKLAHOMA

ANALYTICAL REQUEST FORM, SWL-GA-131

Ref# 5546

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	29546	Receipt Date	08/01/2001 Due: 08/07/2001
SDG	E00Y1 Closed	Sample TAT:	Fax Rpt 7

Reports

Data Pkgs CLP: 2

EDD

Special Provisions: Must use arochlor 1254 for LCS/LCSD & MS/MSD
need GPCed, silica gel & Acid cleaned, 5.4C 1 2-1 °C 8-1-01
Case#29546, to date wk 7/30/01: 80 soils , 4 sets QC

Client ID	Type	Matrix	GC699									
E00Y1		S	X									
E00Y2		S	X									
E00Y3		S	X									
E00Y4		S	X									
E00Y5		S	X									
E00Y6		S	X									
E00Y7		S	X									
E00Y8		S	X									
E00Y9		S	X									
E00Z0		S	X									
E00Z1	N1	S	X									
E00Z1MS	MS1	S	X									
E00Z1MSD	SD1	S	X									
E00Z2		S	X									
E00Z3		S	X									
E00Z4		S	X									
E00Z5		S	X									
E00Z6		S	X									
E00Z7		S	X									
E00Z8		S	X									

Reporting Address: ACCOUNTING OFFICER
Attn:;FINANCIAL MANAGEMENT DIVISION,ACCOUNTING OFFICE MD-32,RESEARCH TRIANGLE P

Billing Address: Same As Reporting Address

Project Officer: HARRY M. BORG

Prepared 08/01/2001

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SOUTHWEST LABORATORY OF OKLAHOMA

ANALYTICAL REQUEST FORM, SWL-GA-131

Ref# 5546

Pg 2 of 2

Client	ACCOUNTING OFFICER	Client Code:	EPA
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need GPCed, silica gel & Acid cleaned, 5.4C 2-1-01
Case#29546, to date wk 7/30/01: 80 soils , 4 sets QC

Client ID	Type	Matrix	GC699									
E00Z9		S	X									
E0100		S	X									

Reporting Address: ACCOUNTING OFFICER
Attn:;FINANCIAL MANAGEMENT DIVISION,ACCOUNTING OFFICE MD-32,RESEARCH TRIANGLE P

Billing Address: Same As Reporting Address

Project Officer: HARRY M. BORG

Prepared 08/01/2001