Data Review
Site Name: Allied Paper (MI)
Case Number: 29684 Laboratory: Southwest Laboratory
SDG: E04M3

Friday, October 19, 2001

US EPA RECORDS CENTER REGION 5
560104

PCBs

Samples:

Sample No	Station Location	Matrix	Date Collected	Date Extracted	Date Analyzed
E04M3	AP-SD004-29-02	Soil	08/28/01	09/08/01	09/26/01
E04M4	AP-SD004-29-03	Soil	08/28/01	09/08/01	09/26/01
E04M5	AP-SD004-29-04	Soil	08/28/01	09/08/01	09/26/01
E04P0	AP-SD004-34-01	Soil	08/28/01	09/08/01	09/26/01
E04P1	AP-SD004-34-02	Soil	08/28/01	09/08/01	09/26/01
E04P2	AP-SD004-34-03	Soil	08/28/01	09/08/01	09/26/01
E04P3	AP-SD004-34-04	Soil	08/28/01	09/08/01	09/26/01
E04P4	AP-SD004-34-04DP	Soil	08/28/01	09/08/01	09/26/01
E04P5	AP-SD004-37-01	Soil	08/28/01	09/08/01	09/26/01
E04P6	AP-SD004-37-02	Soil	08/28/01	09/08/01	09/26/01
E04P7	AP-SD004-37-03	Soil	08/28/01	09/08/01	09/26/01
E04P8	AP-SD004-37-04	Soil	08/28/01	09/08/01	09/26/01
E04P9	AP-SD004-37-04DP	Soil	08/28/01	09/08/01	09/26/01
E04Q0	AP-SD004-28-01	Soil	08/28/01	09/08/01	09/26/01
E04Q1	AP-SD004-28-02	Soil	08/28/01	09/08/01	09/26/01
E04Q2	AP-SD004-28-03	Soil	08/28/01	09/08/01	09/26/01
E04Q3	AP-SD004-28-04	Soil	08/28/01	09/08/01	09/26/01
E04Q4	AP-SD004-35-01	Soil	08/28/01	09/08/01	09/26/01
E04Q5	AP-SD004-35-02	Soil	08/28/01	09/08/01	09/26/01
E04Q6	AP-SD004-35-03	Soil	08/28/01	09/08/01	09/26/01

Holding Time:

All samples were extracted and analyzed within the required holding time. The samples arrived in a cooler at 2.3 degrees Celsius.

Method Blank:

The method blank PBLKSD was associated with this SDG. PBLKSD was analyzed on 09/26/01 with (E04M3 thru E04M5, E04P0 thru E04P9, E04Q0, E04Q6, and MS/MSD). The PBLKSD 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:

The method blank and investigated samples had surrogate recoveries within the acceptance quality control limits (30 to 170%).

Matrix Spike/ Matrix Spike Duplicate Recovery:
The matrix spike/ matrix spike duplicate audit was performed on sample E04M3. The matrix spike/ matrix spike duplicate recoveries were within the quality control limits (29-135%). Also, the relative percent difference (RPD %) recovery was acceptable.

Laboratory Control Sample Recovery:
The laboratory control sample/laboratory control sample duplicate, 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 quality control limit, except in aroclor 1260 for all five levels in both columns DB-17MS, and DB-XLB were analyzed on 09/26/01 at 2124, 2150 and outside the acceptable limits (an average RSD 15%). Therefore, qualify the results for all the seven aroclor in the following associated samples: E0P8, E04P9, E04Q0, E04Q1, E04Q2, E04Q3, E04Q4, E04Q5, and E04Q6 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: 10/18/01

067-4A AAZK

DATE: October 9, 2001

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

RECEIVED
OCT 12 2001

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
29684	SOUTHWEST	20	E04M3	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

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

113

OCT 0 9 2001

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 10/3/01

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

TO: Data User: Waston

We have reviewed the data for the following case:

SITE NAME: Allied Paper (MI)

CASE NUMBER: 29684 SDG NUMBER: E04M3

Number and Type of Samples: 20 (Soil)

Sample Numbers: E04M3-5, E04P0-9, E04Q0-6

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: E04M3 CERCLIS No: MID006007306

Case No: 29684 Site Name/Location: Allied Paper

Contractor or EPA Lab: SWOK Data User: Weston

No. of Samples: 20 Date Sampled or Date Received: 10/3/01

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: 10/3/01

Received by LSSS: Nicole Jackson / ESAT Date: 10/3/01

Review started: ____ Reviewer Signature: ____

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

Copied by: Nicole Jackson / ESAT Date: 10/9/01

Mailed to user by: Nicole Jackson / ESAT Date: 10/9/01

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: ____

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 29684 SDG No. E04M3 SDG Nos. to Follow _____ _____ _____ SAS No. _____ Date Recvd 10/3/01

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 10/3/01

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 1

SOW Version # 4.2
Site/Project ID: 059BLA00

DATE RECEIVED AT CRL 10/3/01

USER Weston

SITE NAME Allied Paper (MI)

CASE/SAS NUMBER 29684 SDG. NO. E04M3

SAMPLING DATE 8/28/01 DATE SHIPPED 8/29/01

CONTRACT LAB SWOK

NUMBER OF SAMPLES 20 DATE TO ETM

SAMPLES	MATRIX			ANALYSES
E04M3-5	Soil	Water	Other	PCBs
E04P0-9	Soil	Water	Other	
E04Q0-6	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 *

OCT 03 2001

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME SOUTHWEST LABORATORY OF OKLAHOMA
CITY/STATE BROKEN ARROW, OKLAHOMA
CASE NO. 29684 SDG NO. E04M3 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	2	CT	
3. SDG Cover Sheet/Traffic Report	3	6		
4. Volatiles Data				
a. QC Summary				
System Monitoring Compound Summary (Form II	n/a	n/a		
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. 29684 SDG NO. E04M3 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)	n/a	n/a	CT	
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	7	7		
MS/MSD Duplicate Summary (Form III PEST)	8	9		
Method Blank Summary (Form IV PEST)	10	10		

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

CASE NO. 29684 SDG NO. E04M3 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. Pesticides Data (Cont.)				
b. Sample Data	11	70		
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	71	187		
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	188	210		
Matrix Spke/Matrix Spike Duplicate Data	211	229		

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

CASE NO. 29684 SDG NO. E04M3 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. Pesticides Data (Cont.)				
e. Raw GPC Data	230	272	✓	
f. Raw Florisil Data	n/a	n/a		
7. Miscellaneous Data				
Original preparation and analysis forms or of preparation and analysis logbook pages	273	279		
Internal sample and sample extract transfer chain-of-custody records	280	283		
Screening records	n/a	n/a		
All instrument output, including strip charts from screening activities (describe or list)				
8. EPA Shipping/Receiving Documents				
Airbills (No. of shipments 2)	284	284		
Chain-of-Custody Records	285	287		
Sample Tags	288	307		
Sample Log-in Sheet (Lab & DC1)	308	~~312~~ 311		
Miscellaneous Shipping/Receiving Records (describe or list)				
Memos, Changes, Analytical Request Forms	312	318		
	n/a	n/a		
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. 29684 SDG NO. E04M3 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	(Signature)	(Printed Name/Title)	(Date)
Completed by: (CLP Lab)	Sandra Jackett	Sandra Jackett/ Data clerk	10/1/01
Verified by: (CLP Lab)	Carlyn Jackett	Carlyn Jackett/DATA CLERK	10-2-01
Audited by: (EPA)			

OCT 03 2001

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

SDG NARRATIVE

October 2, 2001

CONTRACT: 68W99079

CASE NO: 29684

SDG NO: E04M3

SAMPLES: E04M3, E04M3MS, E04M3MSD, E04M4, E04M5, E04P0, E04P1, E04P2, E04P3, E04P4, E04P5, E04P6, E04P7, E04P8, E04P9, E04Q0, E04Q1, E04Q2, E04Q3, E04Q5 and E04Q6.

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 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. Helium used as the carrier gas.

The sample cooler arrived at 2.3 degrees Celsius.

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

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

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

Retention Times: All retention times were within QC limits.

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

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

Initial Calibrations: Initial calibrations were analyzed for 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: AR1660L33D analyzed on 9/26/01 at 2150 hrs on columns DB-17MS and DB-XLB had high %Ds for aroclor 1260 at 19.6% & 23.2%, respectively.

All manual integrations in this data package for GC/ECD 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
Organic Program Manager October 2, 2001

Contract Laboratory Program

Sample Delivery Group (SDG)
Cover Sheet

SDG Number E04M3

Laboratory Name Southwest Laboratory of Ok. Laboratory Code SWOK

Contract No. 68W99079 Case No. ~~OLM04.2~~ 25634

Analyses Price 569.00 SDG Turnaround 21

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E04M3	7) E04P3	13) E04P9	19) E04Q5
2) E04M4	8) E04P4	14) E04Q0	20) E04Q6
3) E04M5	9) E04P5	15) E04Q1	21)
4) E04P0	10) E04P6	16) E04Q2	22)
5) E04P1	11) E04P7	17) E04Q3	23)
6) E04P2	12) E04P8	18) E04Q4	~~24)~~

E04M3	E04Q6
First Sample in SDG	Last Sample in SDG
08/30/2001	08/30/2001
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).*

3

Signature [signature] Date 8-31-01

Version 2.0

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

Case No: 29684
DAS No:
SDG No: E04M3

L

Date Shipped:	8/29/2001
Carrier Name:	FedEx
Airbill:	821876980351
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	8-29-01 1745		8-30-01 8:15
2			
3			
4			

For Lab Use Only

Lab Contract No: 68W99079
Unit Price: 569.00
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 E04M3
E04L8	Sediment/ Joe Ruiz	L/G	PCBs (21)	099339 (Ice Only) (1)	AP-SD004-13-05	S:	8/28/2001	14:25		OK
E04L9	Sediment/ Joe Ruiz	L/G	PCBs (21)	099340 (Ice Only) (1)	AP-SD004-26-01	S:	8/28/2001	14:40		
E04M0	Sediment/ Joe Ruiz	L/G	PCBs (21)	099341 (Ice Only) (1)	AP-SD004-26-02	S:	8/28/2001	14:40		
E04M1	Sediment/ Joe Ruiz	L/G	PCBs (21)	099342 (Ice Only) (1)	AP-SD004-26-03	S:	8/28/2001	14:40		
E04M2	Sediment/ Joe Ruiz	L/G	PCBs (21)	099343 (Ice Only) (1)	AP-SD004-29-01	S:	8/28/2001	13:45		8-30-01 (LB)
E04M3	Sediment/ Joe Ruiz	L/G	PCBs (21)	099344 (Ice Only) (1)	AP-SD004-29-02	S:	8/28/2001	13:45	ORIGINAL IN SDG # E04K1	
E04M4	Sediment/ Joe Ruiz	L/G	PCBs (21)	099345 (Ice Only) (1)	AP-SD004-29-03	S:	8/28/2001	13:45		
E04M5	Sediment/ Joe Ruiz	L/G	PCBs (21)	099346 (Ice Only) (1)	AP-SD004-29-04	S:	8/28/2001	13:45		
E04P0	Sediment/ Joe Ruiz	L/G	PCBs (21)	099347 (Ice Only) (1)	AP-SD004-34-01	S:	8/28/2001	14:10		
E04P1	Sediment/ Joe Ruiz	L/G	PCBs (21)	099348 (Ice Only) (1)	AP-SD004-34-02	S:	8/28/2001	14:10		

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E04K1, E04M3, E04Q7		2.3°C T.B	177854, 177855

Analysis Key: PCBs = PCBs

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

Custody Seal Intact? ✓ Shipment Iced? ✓

R Number: 5-490998136-082901-0002

LABORATORY COPY

R provides preliminary results. Requests for preliminary results will increase analytical costs.
end 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: 29684
DAS No:
SDG No: E04M3

L

Date Shipped: 8/29/2001
Carrier Name: FedEx
Airbill: 821876980351
Shipped to: Southwest Labs of Oklahoma, Inc.
1700 West Albany
Suite C
Broken Arrow OK 74012
(918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	8-29-01 1745		8-30-01 8:15
2			
3			
4			

Sampler Signature:

For Lab Use Only
Lab Contract No: 68W99079
Unit Price: $69.00
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 E04M3 Sample Condition On Receipt
E04P2	Sediment/ Joe Ruiz	L/G	PCBs (21)	099349 (Ice Only) (1)	AP-SD004-34-03	S:	8/28/2001	14:10		OK
E04P3	Sediment/ Joe Ruiz	L/G	PCBs (21)	099350 (Ice Only) (1)	AP-SD004-34-04	S:	8/28/2001	14:10		
E04P4	Sediment/ Joe Ruiz	L/G	PCBs (21)	099351 (Ice Only) (1)	AP-SD004-34-04DP	S:	8/28/2001	14:10		
E04P5	Sediment/ Joe Ruiz	L/G	PCBs (21)	099352 (Ice Only) (1)	AP-SD004-37-01	S:	8/28/2001	14:35		8-30-01
E04P6	Sediment/ Joe Ruiz	L/G	PCBs (21)	099353 (Ice Only) (1)	AP-SD004-37-02	S:	8/28/2001	14:35		
E04P7	Sediment/ Joe Ruiz	L/G	PCBs (21)	099354 (Ice Only) (1)	AP-SD004-37-03	S:	8/28/2001	14:35		
E04P8	Sediment/ Joe Ruiz	L/G	PCBs (21)	099355 (Ice Only) (1)	AP-SD004-37-04	S:	8/28/2001	14:35		
E04P9	Sediment/ Joe Ruiz	L/G	PCBs (21)	099356 (Ice Only) (1)	AP-SD004-37-04DP	S:	8/28/2001	14:35		
E04Q0	Sediment/ Joe Ruiz	L/G	PCBs (21)	099357 (Ice Only) (1)	AP-SD004-28-01	S:	8/28/2001	14:42		
E04Q1	Sediment/ Joe Ruiz	L/G	PCBs (21)	099358 (Ice Only) (1)	AP-SD004-28-02	S:	8/28/2001	14:42		

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E04K1, E04M3, E04Q7		23° TB	177854, 177855

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: 5-490998136-082901-0002

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: 29684
DAS No:
SDG No: E04M3

L

Date Shipped: 8/29/2001
Carrier Name: FedEx
Airbill: 821876980351
Shipped to: Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	8-29-01 1745		8-30-01 8:15
2			
3			
4			

Sampler Signature:

For Lab Use Only
Lab Contract No: 68W99009
Unit Price: 569.00
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 E04M3
E04Q2	Sediment/ Joe Ruiz	L/G	PCBs (21)	099359 (Ice Only) (1)	AP-SD004-28-03	S:	8/28/2001	14:42		OK
E04Q3	Sediment/ Joe Ruiz	L/G	PCBs (21)	099360 (Ice Only) (1)	AP-SD004-28-04	S:	8/28/2001	14:42		
E04Q4	Sediment/ Joe Ruiz	L/G	PCBs (21)	099361 (Ice Only) (1)	AP-SD004-35-01	S:	8/28/2001	15:25		
E04Q5	Sediment/ Joe Ruiz	L/G	PCBs (21)	099362 (Ice Only) (1)	AP-SD004-35-02	S:	8/28/2001	15:25		
* E04Q6	Sediment/ Joe Ruiz	L/G	PCBs (21)	099363 (Ice Only) (1)	AP-SD004-35-03	S:	8/28/2001	15:25		8-30-01
E04Q7	Sediment/ Joe Ruiz	L/G	PCBs (21)	099364 (Ice Only) (1)	AP-SD004-35-04	S:	8/28/2001	15:25		
E04Q8	Sediment/ Joe Ruiz	L/G	PCBs (21)	099365 (Ice Only) (1)	AP-SD004-35-05	S:	8/28/2001	15:25		
E04Q9	Sediment/ Joe Ruiz	L/G	PCBs (21)	099366 (Ice Only) (1)	AP-SD004-38-01	S:	8/21/2001	15:50		
E04R0	Sediment/ Joe Ruiz	L/G	PCBs (21)	099367 (Ice Only) (1)	AP-SD004-38-02	S:	8/21/2001	15:50		
E04R1	Sediment/ Joe Ruiz	L/G	PCBs (21)	099368 (Ice Only) (1)	AP-SD004-38-03	S:	8/21/2001	15:50		

* SDG Final Sample

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E04K1, E04M3, E04Q7	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2.3°C TB	Chain of Custody Seal Number: 177854, 177855
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: 5-490998136-082901-0002

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

2F
SOIL AROCLOR SURROGATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

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	PBLKSD	75	71	97	90	0
02	ELCS1	84	79	102	98	0
03	ELCS2	70	67	86	79	0
04	E04M3	75	85	73	77	0
05	E04M3MS	61	73	66	69	0
06	E04M3MSD	54	65	57	61	0
07	E04M4	63	75	69	74	0
08	E04M5	66	66	64	63	0
09	E04P0	66	68	69	67	0
10	E04P1	79	86	86	85	0
11	E04P2	64	69	75	74	0
12	E04P3	91	99	91	93	0
13	E04P4	46	51	48	48	0
14	E04P5	55	60	60	58	0
15	E04P6	56	60	58	58	0
16	E04P7	54	56	58	59	0
17	E04P8	96	95	95	92	0
18	E04P9	84	88	86	84	0
19	E04Q0	61	71	67	61	0
20	E04Q1	74	85	81	78	0
21	E04Q2	60	67	67	66	0
22	E04Q3	68	76	75	76	0
23	E04Q4	75	79	76	74	0
24	E04Q5	68	70	69	69	0
25	E04Q6	65	66	63	64	0
26						
27						
28						
29						
30						

QC LIMITS

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

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

C 7

FORM II PCB-1

3H

SOIL AROCLOR LABORATORY CONTROL SPIKE/ DUPLICATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

LCS Sample NO.: ELCS1

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aroclor-1254	133	105	79	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	133	98.6	74	6	50	29-135

Column to be used to flag recovery values

* Values outside of QC limits

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

Comments: _____

8

3F

SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix Spike - Client Sample NO.: E04M3

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aroclor-1254	358	0	178	50	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	352	147	42	19	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: _____

9

FORM III PCB-2

4C

AROCLOR METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLKSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Lab Sample ID: BL0908SD Lab File ID: 3_092503

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

Sulfur Cleanup: (Y/N) Y Date Extracted: 09/08/01

Date Analyzed (1): 09/26/01 Date Analyzed (2): 09/26/01

Time Analyzed (1): 0250 Time Analyzed (2): 0250

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	ELCS1	LC0908SD	09/26/01	09/26/01
02	ELCS2	LD0908SD	09/26/01	09/26/01
03	E04M3	47455.01	09/26/01	09/26/01
04	E04M3MS	47455.02MS	09/26/01	09/26/01
05	E04M3MSD	47455.03MSD	09/26/01	09/26/01
06	E04M4	47455.04	09/26/01	09/26/01
07	E04M5	47455.05	09/26/01	09/26/01
08	E04P0	47455.06	09/26/01	09/26/01
09	E04P1	47455.07	09/26/01	09/26/01
10	E04P2	47455.08	09/26/01	09/26/01
11	E04P3	47455.09	09/26/01	09/26/01
12	E04P4	47455.10	09/26/01	09/26/01
13	E04P5	47455.11	09/26/01	09/26/01
14	E04P6	47455.12	09/26/01	09/26/01
15	E04P7	47455.13	09/26/01	09/26/01
16	E04P8	47455.14	09/26/01	09/26/01
17	E04P9	47455.15	09/26/01	09/26/01
18	E04Q0	47455.16	09/26/01	09/26/01
19	E04Q1	47455.17	09/26/01	09/26/01
20	E04Q2	47455.18	09/26/01	09/26/01
21	E04Q3	47455.19	09/26/01	09/26/01
22	E04Q4	47455.20	09/26/01	09/26/01
23	E04Q5	47455.21	09/26/01	09/26/01
24	E04Q6	47455.22	09/26/01	09/26/01
25				
26				

Comments:

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E04M3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: 47455.01

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

% Moisture: 63 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	89	U
11104-28-2	Aroclor-1221	89	U
11141-16-5	Aroclor-1232	89	U
53469-21-9	Aroclor-1242	89	U
12672-29-6	Aroclor-1248	89	U
11097-69-1	Aroclor-1254	89	U
11096-82-5	Aroclor-1260	89	U
	Surrogate amount spiked	17.90	

FORM I PCB

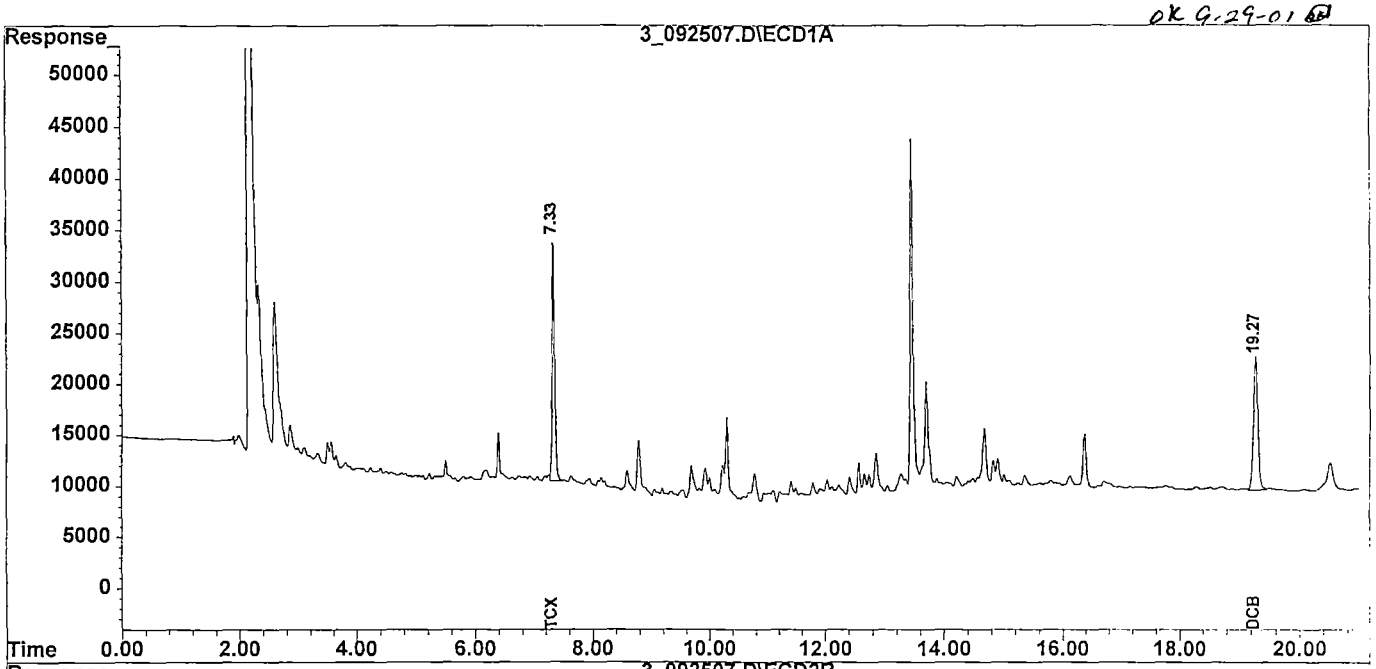
Chromatographic Report

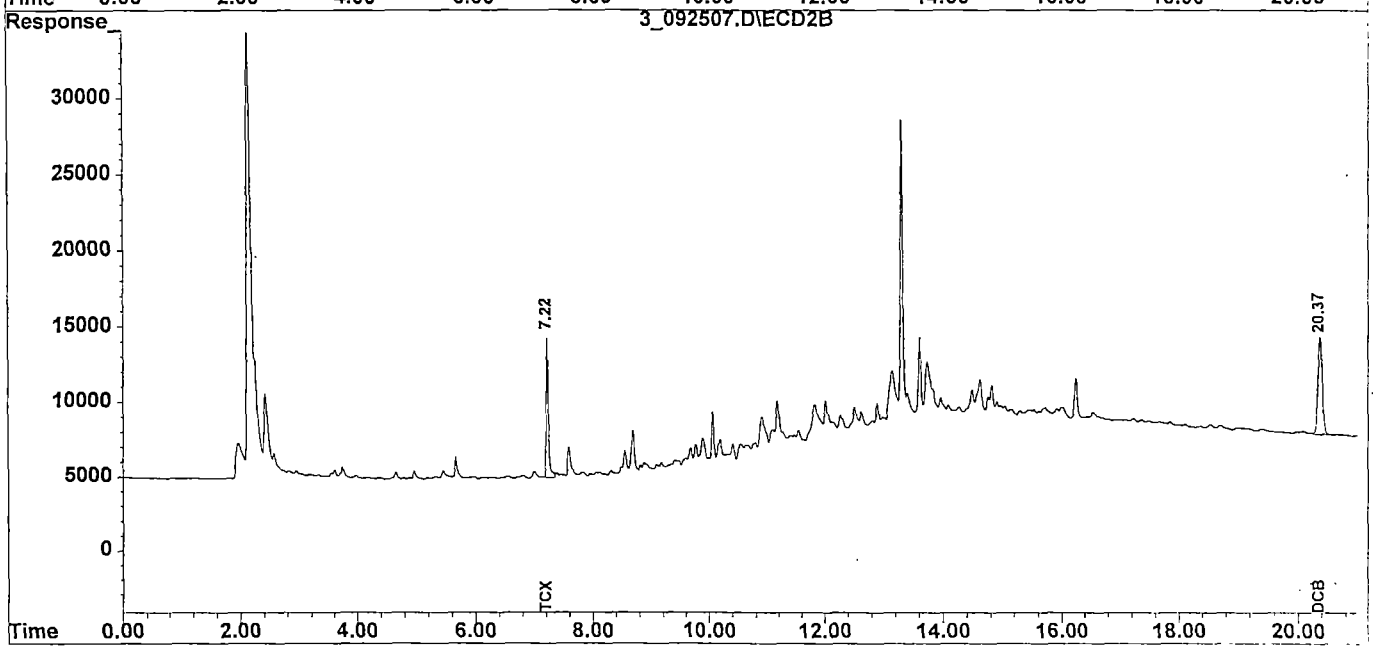
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092507.D\ECD1A.CH Vial: 65
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092507.D\ECD2B.CH
Acq On : 26 Sep 2001 4:33 Operator: BTB
Sample : 47455.01 *E04M3 * Inst : HP_03
Misc : *EPA*30.2G/5.0ML*63 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 11:27 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

ok 9-29-01





12

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092507.D\ECD1A.CH Vial: 65
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092507.D\ECD2B.CH
Acq On : 26 Sep 2001 4:33 Operator: BTB
Sample : 47455.01 *E04M3 * Inst : HP_03
Misc : *EPA*30.2G/5.0ML*63 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 11:27 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	693322	248575	13.4	15.2
	Spiked Amount 17.899			Recovery	=	74.87%	84.92%
22)	S DCB	19.27f	20.37f	664748	332992	13.1	13.8
	Spiked Amount 17.899			Recovery	=	73.19%	77.10%

Target Compounds:

13

(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.

E04M4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: 47455.04

Sample wt/vol: 30.8 (g/mL) G Lab File ID:_____

% Moisture: 57 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	75	U
11104-28-2	Aroclor-1221	75	U
11141-16-5	Aroclor-1232	75	U
53469-21-9	Aroclor-1242	75	U
12672-29-6	Aroclor-1248	75	U
11097-69-1	Aroclor-1254	75	U
11096-82-5	Aroclor-1260	75	U
	Surrogate amount spiked	15.10	

FORM I PCB

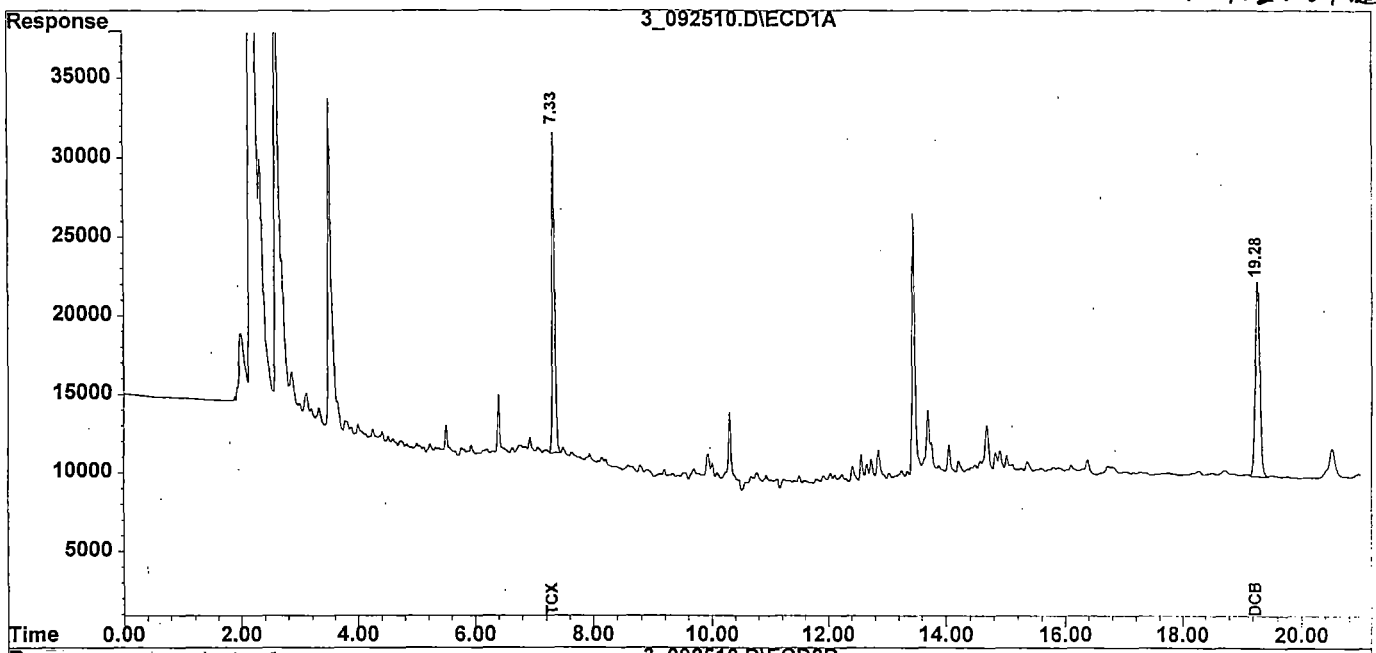
Chromatographic Report

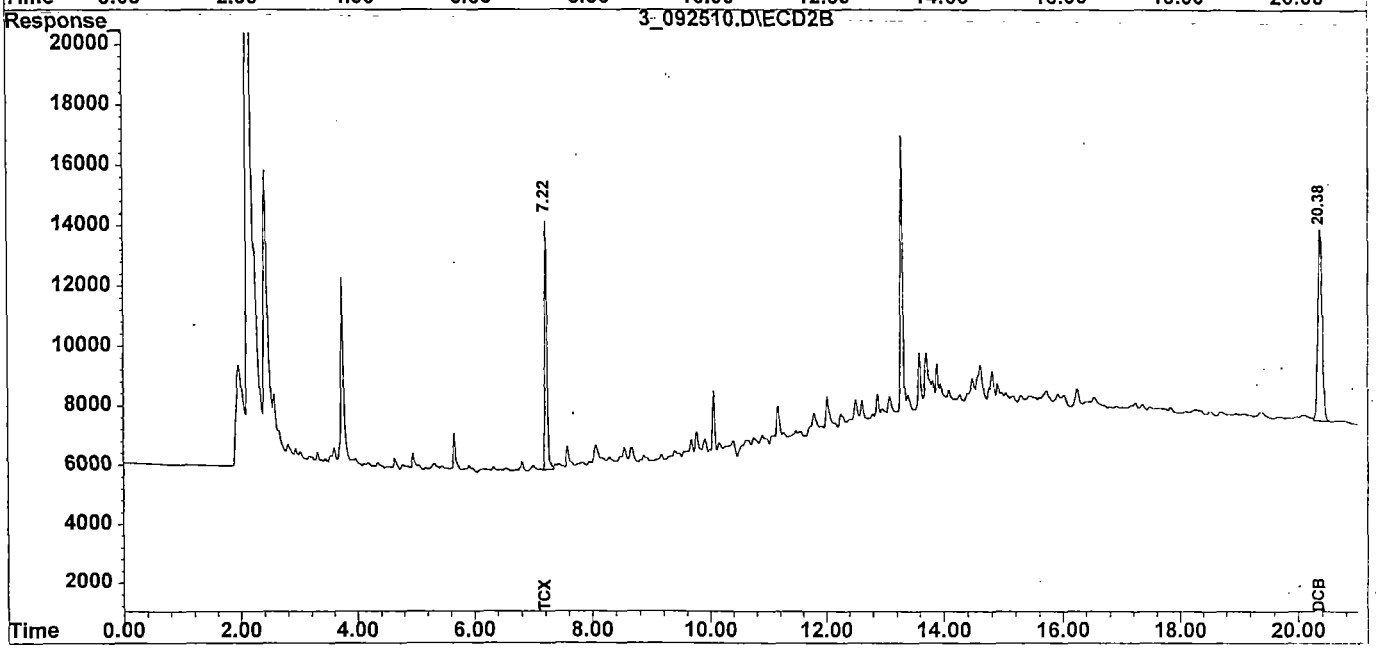
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092510.D\ECD1A.CH Vial: 68
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092510.D\ECD2B.CH
Acq On : 26 Sep 2001 5:50 Operator: BTB
Sample : 47455.04 ✓ ,*E04M4 ✓ * Inst : HP_03
Misc : *EPA*30.8G/5.0ML*57 ✓ Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 11:36 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

OK 9-29-01 KB





15

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092510.D\ECD1A.CH Vial: 68
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092510.D\ECD2B.CH
Acq On : 26 Sep 2001 5:50 Operator: BTB
Sample : 47455.04 *E04M4 * Inst : HP_03
Misc : *EPA*30.8G/5.0ML*57 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 11:36 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	581630	219234	9.457	11.3
	Spiked Amount 15.101			Recovery	=	62.62%	74.83%
22)	S DCB	19.28f	20.38f	623484	321148	10.4	11.2
	Spiked Amount 15.101			Recovery	=	✓68.87%	✓74.17%

Target Compounds:

16

(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.

E04M5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: 47455.05

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

% Moisture: 60 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	81	U
11104-28-2	Aroclor-1221	81	U
11141-16-5	Aroclor-1232	81	U
53469-21-9	Aroclor-1242	81	U
12672-29-6	Aroclor-1248	81	U
11097-69-1	Aroclor-1254	81	U
11096-82-5	Aroclor-1260	81	U
	Surrogate amount spiked	16.33	

FORM I PCB

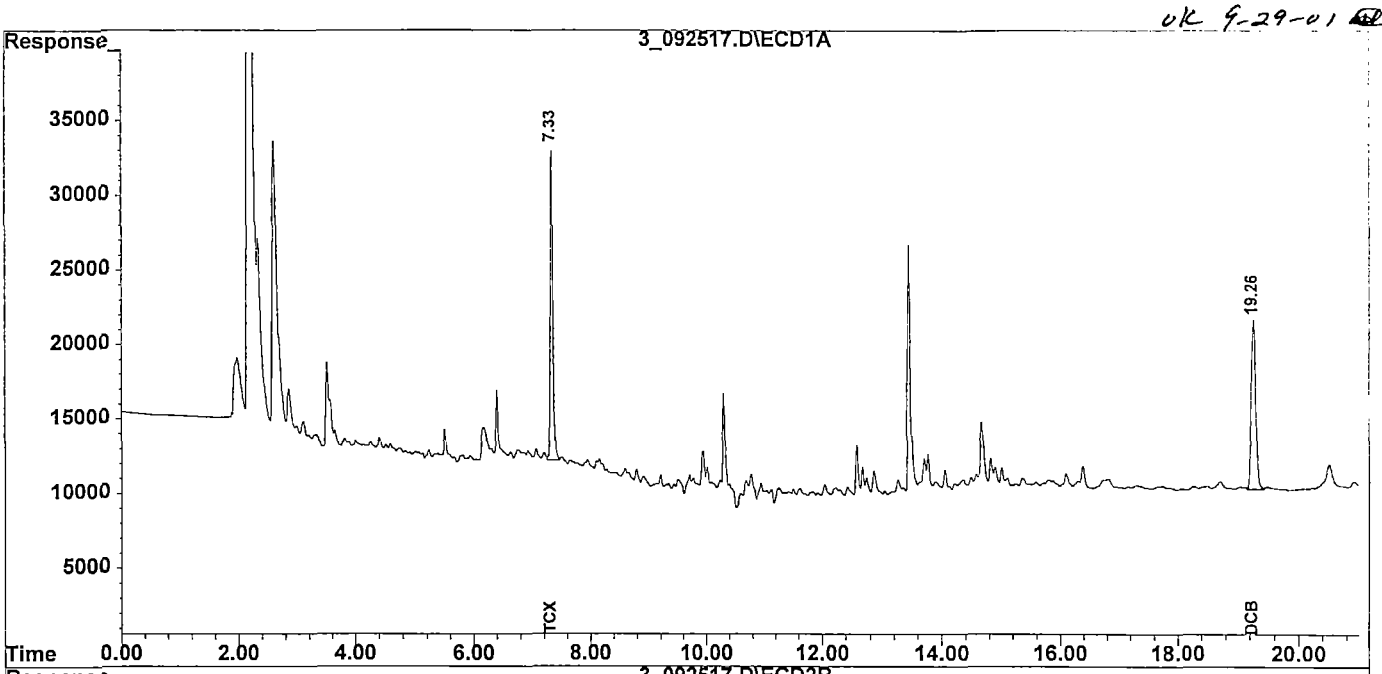
Chromatographic Report

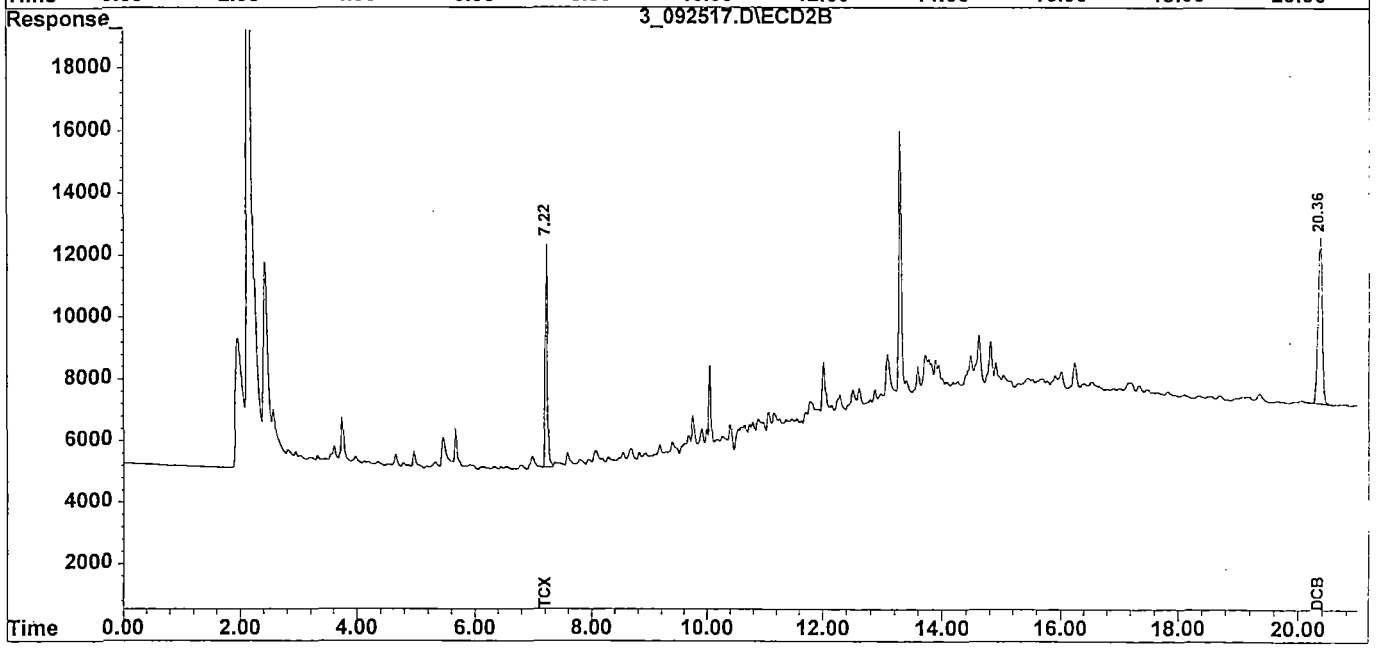
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092517.D\ECD1A.CH Vial: 75
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092517.D\ECD2B.CH
Acq On : 26 Sep 2001 8:58 Operator: BTB
Sample : 47455.05 ✓/*E04M5 ✓ * Inst : HP_03
Misc : *EPA*30.6G/5.0ML*60 ✓ Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 11:41 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

ok 9-29-01





18

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092517.D\ECD1A.CH Vial: 75
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092517.D\ECD2B.CH
Acq On : 26 Sep 2001 8:58 Operator: BTB
Sample : 47455.05 *E04M5 * Inst : HP_03
Misc : *EPA*30.6G/5.0ML*60 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 11:41 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	615334	194178	10.8	10.9
	Spiked Amount 16.340			Recovery	=	66.10%	66.71%
22)	S DCB	19.26	20.36	577172	271560	10.4	10.2
	Spiked Amount 16.340			Recovery	=	63.65%	62.42%

Target Compounds:

19

(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.

E04P0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: 47455.06

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

% Moisture: 62 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	86	U
11104-28-2	Aroclor-1221	86	U
11141-16-5	Aroclor-1232	86	U
53469-21-9	Aroclor-1242	86	U
12672-29-6	Aroclor-1248	86	U
11097-69-1	Aroclor-1254	86	U
11096-82-5	Aroclor-1260	86	U
	Surrogate amount spiked	17.31	

FORM I PCB

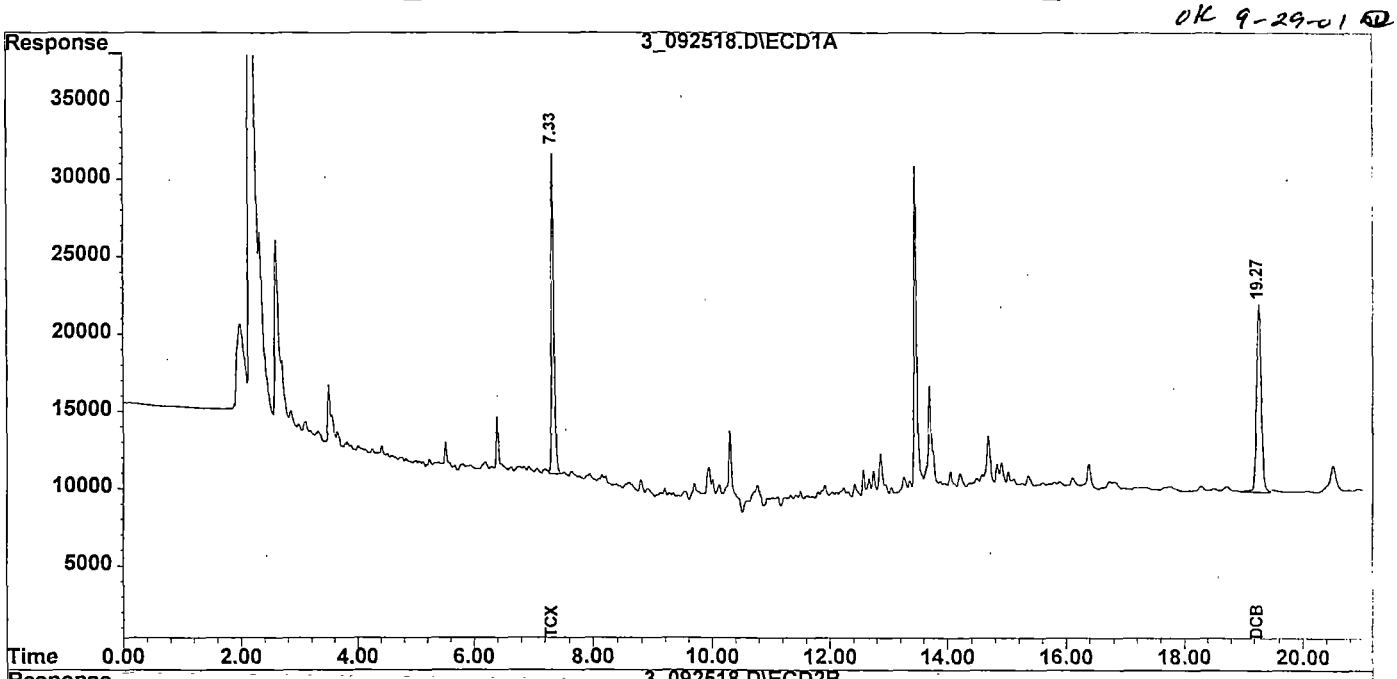
Chromatographic Report

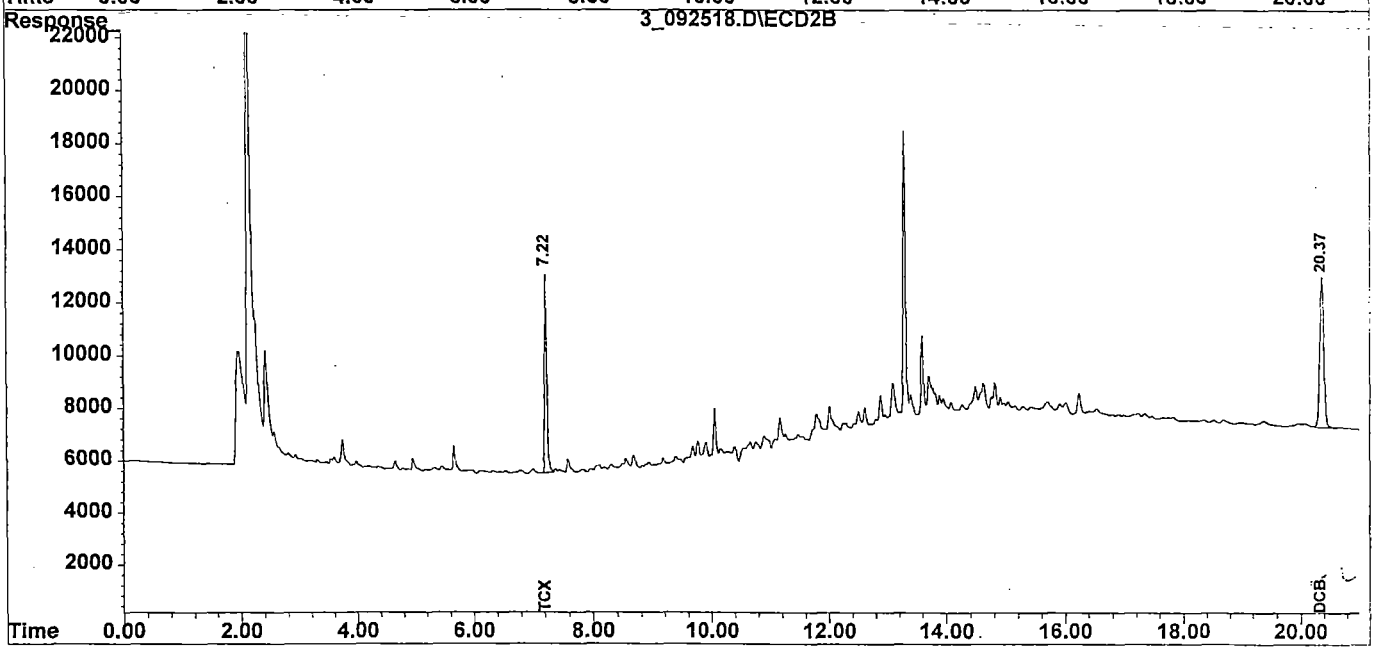
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092518.D\ECD1A.CH Vial: 76
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092518.D\ECD2B.CH
Acq On : 26 Sep 2001 9:24 Operator: BTB
Sample : 47455.06 *E04P0 * Inst : HP_03
Misc : *EPA*30.4G/5.0ML*62 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 11:42 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

OK 9-29-01





21

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092518.D\ECD1A.CH Vial: 76
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092518.D\ECD2B.CH
Acq On : 26 Sep 2001 9:24 Operator: BTB
Sample : 47455.06 *E04P0 * Inst : HP_03
Misc : *EPA*30.4G/5.0ML*62 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 11:42 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	614736	198119	11.5	11.7
	Spiked Amount 17.313			Recovery	=	66.42%	67.58%
22)	S DCB	19.27	20.37f	624277	289980	11.9	11.6
	Spiked Amount 17.313			Recovery	=	68.73%	67.00%

Target Compounds:

22

(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.

E04P1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: 47455.07

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

% Moisture: 58 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	79	U
11104-28-2	Aroclor-1221	79	U
11141-16-5	Aroclor-1232	79	U
53469-21-9	Aroclor-1242	79	U
12672-29-6	Aroclor-1248	79	U
11097-69-1	Aroclor-1254	79	U
11096-82-5	Aroclor-1260	79	U
	Surrogate amount spiked	15.88	

FORM I PCB

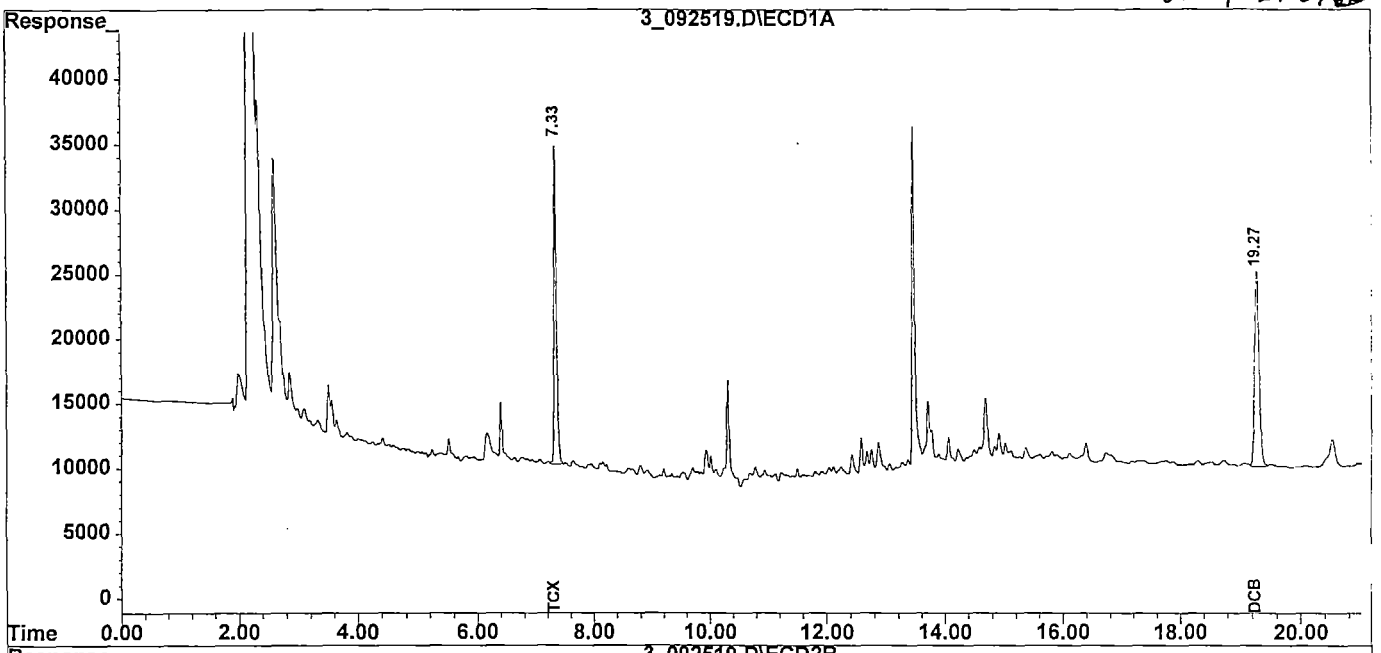
Chromatographic Report

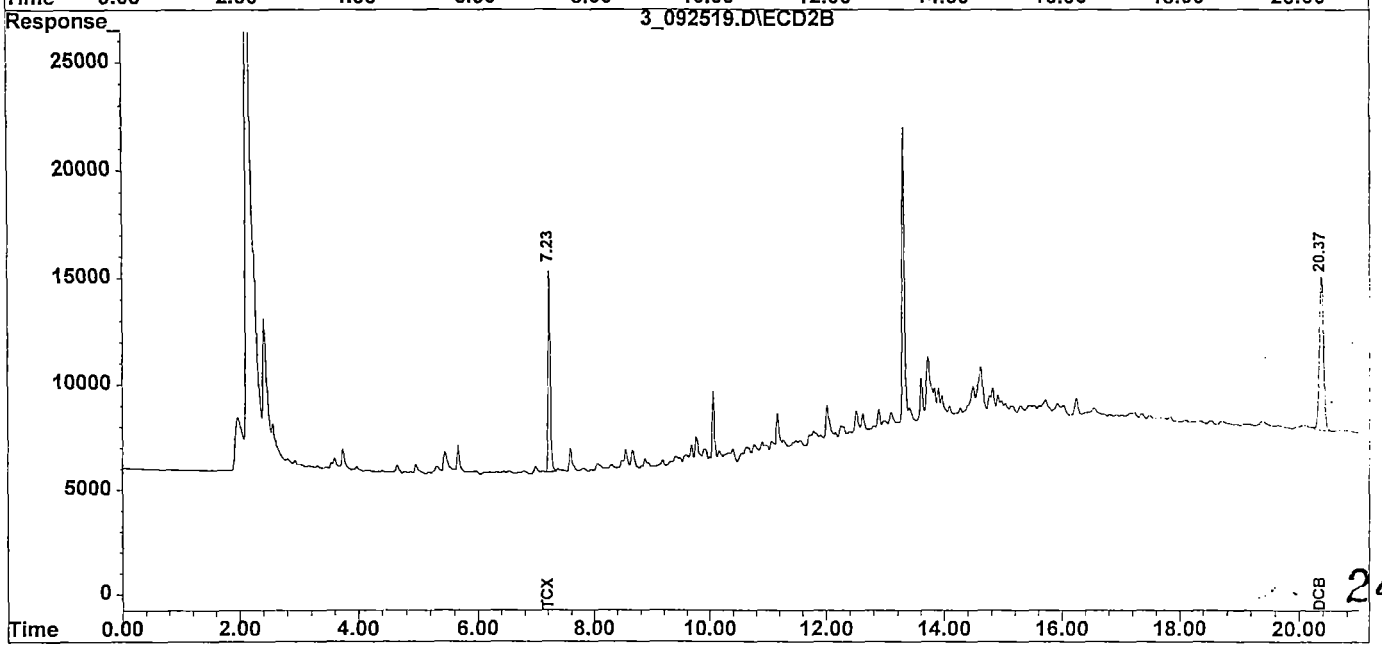
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092519.D\ECD1A.CH Vial: 77
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092519.D\ECD2B.CH
Acq On : 26 Sep 2001 9:49 Operator: BTB
Sample : 47455.07 *E04P1 * Inst : HP_03
Misc : *EPA*30G/5.0ML*58 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 11:43 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

ok 9-29-01





24

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092519.D\ECD1A.CH Vial: 77
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092519.D\ECD2B.CH
Acq On : 26 Sep 2001 9:49 Operator: BTB
Sample : 47455.07 *E04P1 * Inst : HP_03
Misc : *EPA*30G/5.0ML*58 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 11:43 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	733360	250602	12.5	13.6
	Spiked Amount 15.873			Recovery	=	78.75%	85.68%
22)	S DCB	19.27f	20.37f	774459	369696	13.6	13.5
	Spiked Amount 15.873			Recovery	=	✓85.68%	✓85.05%

Target Compounds:

25

(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.

E04P2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: 47455.08

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

% Moisture: 29 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	U
11104-28-2	Aroclor-1221	46	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	46	U
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	46	U
	Surrogate amount spiked	9.21	

FORM I PCB

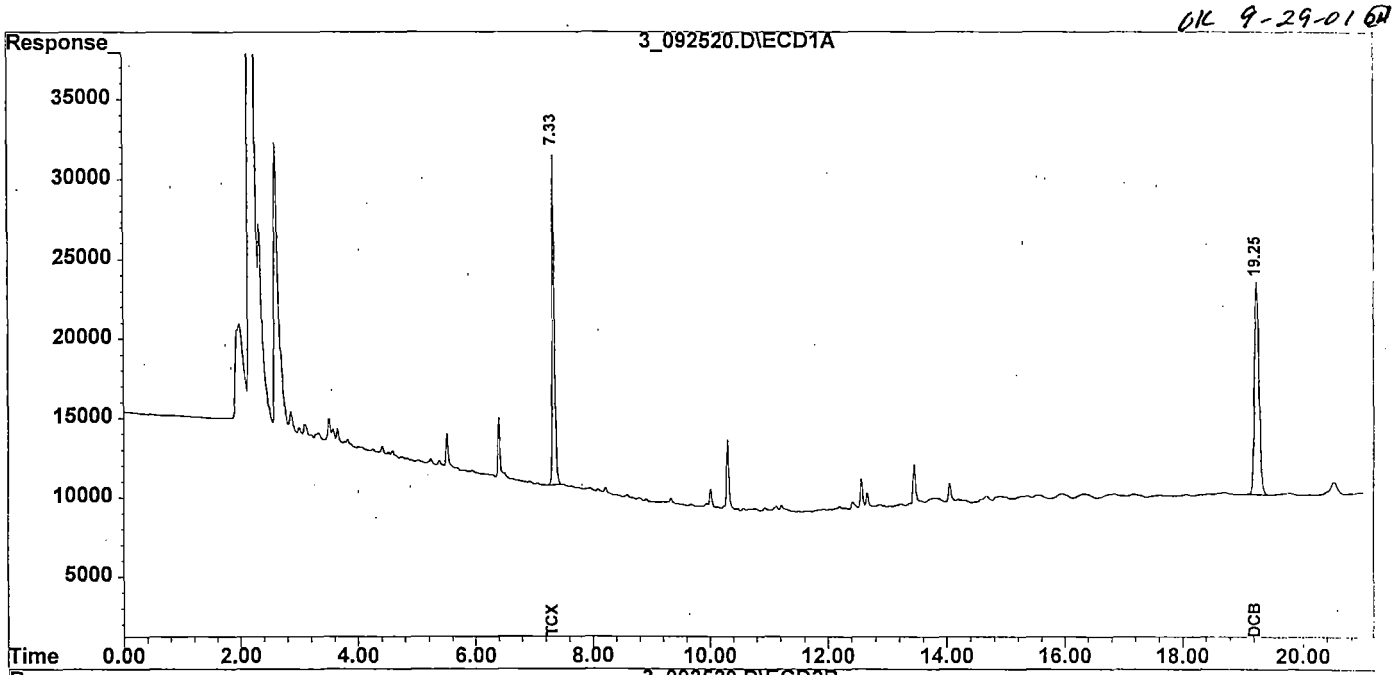
Chromatographic Report

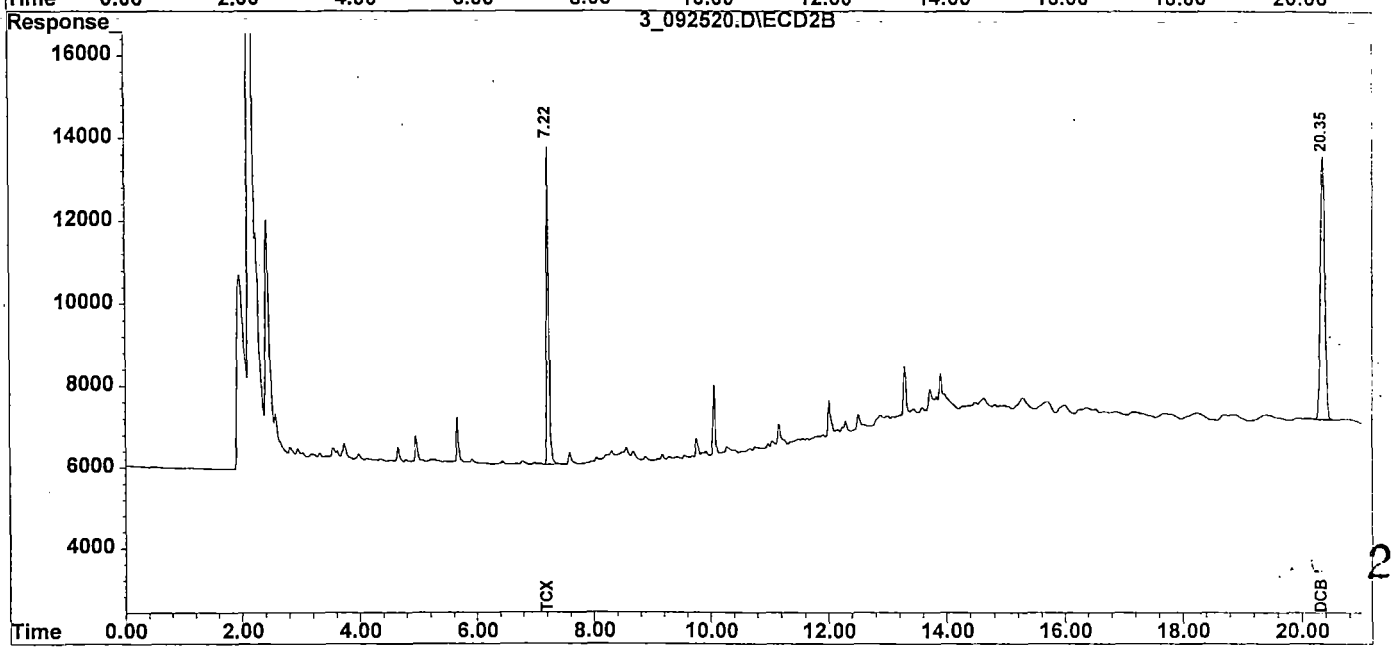
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092520.D\ECD1A.CH Vial: 78
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092520.D\ECD2B.CH
Acq On : 26 Sep 2001 10:15 Operator: BTB
Sample : 47455.08', *E04P2 ' Inst : HP_03
Misc : *EPA*30.6G/5.0ML*29 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 11:44 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

OK 9-29-01





27

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092520.D\ECD1A.CH Vial: 78
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092520.D\ECD2B.CH
Acq On : 26 Sep 2001 10:15 Operator: BTB
Sample : 47455.08 *E04P2 * Inst : HP_03
Misc : *EPA*30.6G/5.0ML*29 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 11:44 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	598963	202772	5.937	6.388
	Spiked Amount 9.206			Recovery	=	64.49%	69.39%
22)	S DCB	19.25	20.35	676775	320139	6.883	6.805
	Spiked Amount 9.206			Recovery	=	74.77%	73.92%

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
3_092520.D XPCBI24.M Wed Sep 26 11:46:11 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E04P3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: 47455.09

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

% Moisture: 55 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	73	U
11104-28-2	Aroclor-1221	73	U
11141-16-5	Aroclor-1232	73	U
53469-21-9	Aroclor-1242	73	U
12672-29-6	Aroclor-1248	73	U
11097-69-1	Aroclor-1254	73	U
11096-82-5	Aroclor-1260	73	U
Surrogate amount spiked		14.77	

FORM I PCB

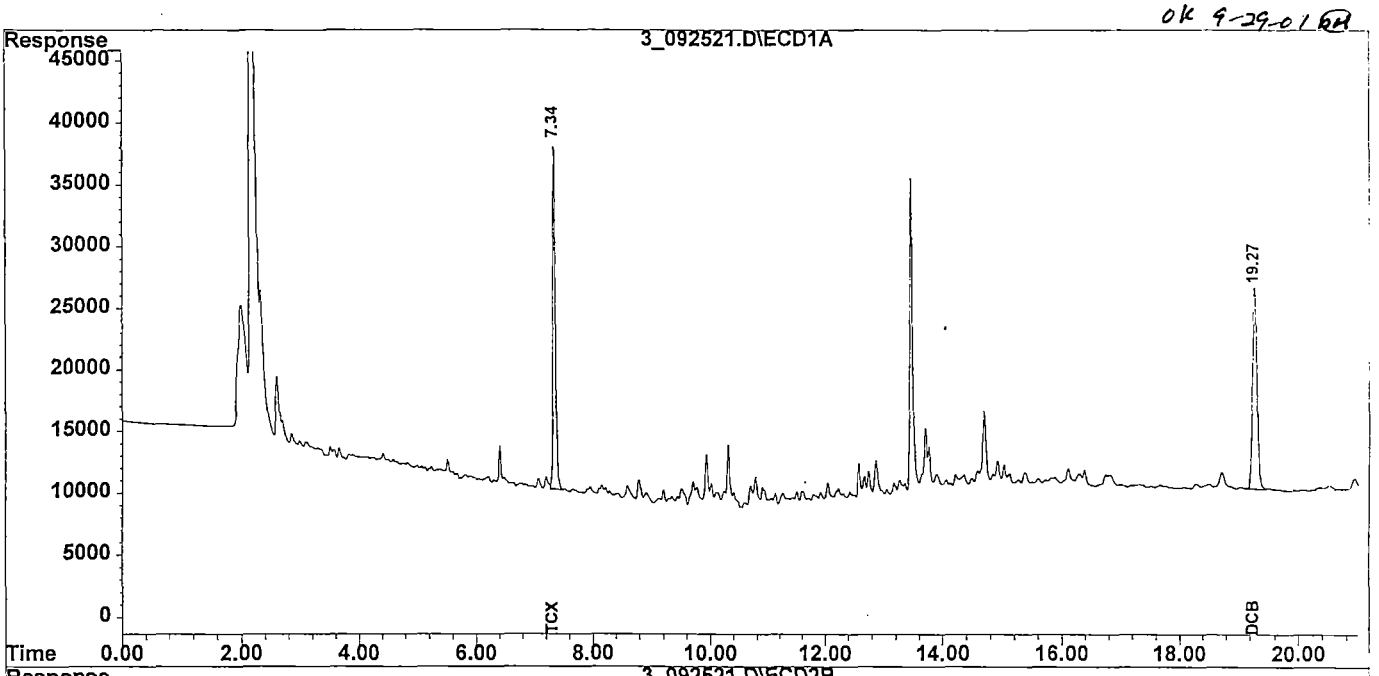
Chromatographic Report

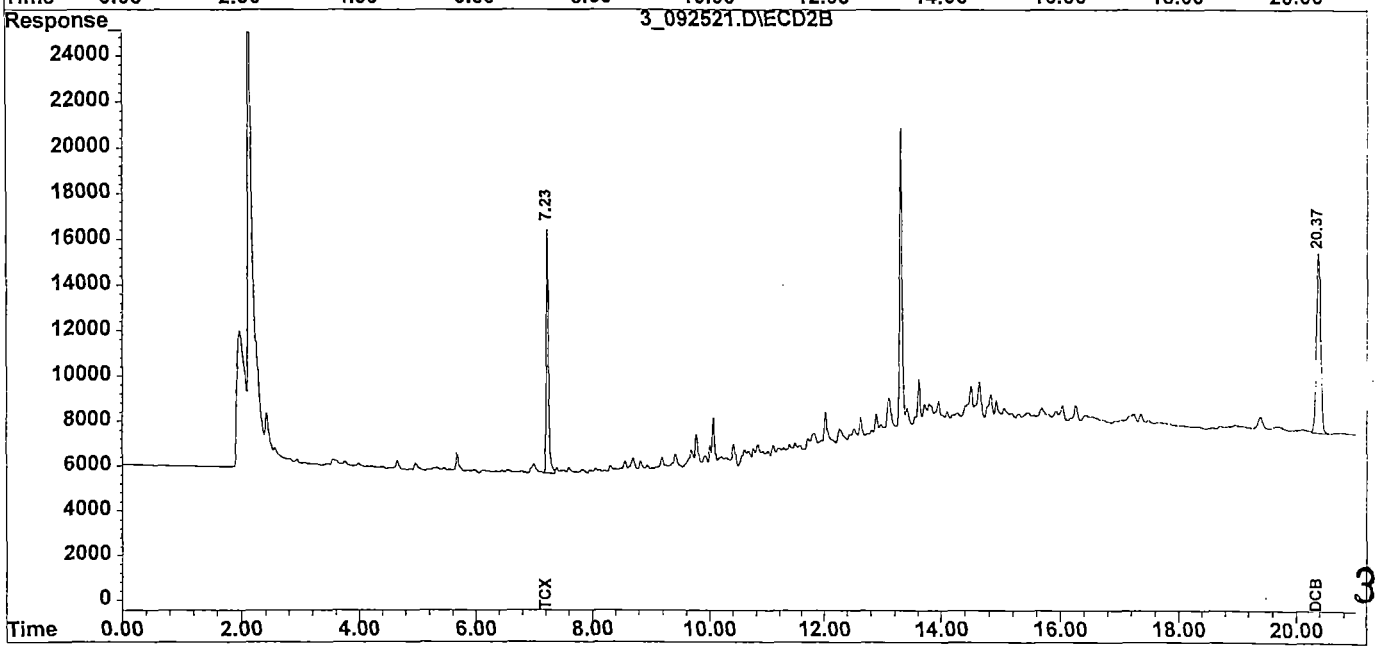
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092521.D\ECD1A.CH Vial: 79
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092521.D\ECD2B.CH
Acq On : 26 Sep 2001 10:41 Operator: BTB
Sample : 47455.09 *E04P3 * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*55 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 11:45 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

OK 9-29-01





30

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092521.D\ECD1A.CH Vial: 79
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092521.D\ECD2B.CH
Acq On : 26 Sep 2001 10:41 Operator: BTB
Sample : 47455.09 *E04P3 * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*55 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 11:45 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	840707	290495	13.4	14.7
	Spiked Amount 14.766			Recovery	=	90.75%	99.56%
22)	S DCB	19.27f	20.37f	822894	402087	13.4	13.7
	Spiked Amount 14.766			Recovery	=	90.75%	92.78%

Target Compounds:

31

(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.

E04P4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: 47455.10

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

% Moisture: 56 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N 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	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U
	Surrogate amount spiked	15.10	

FORM I PCB

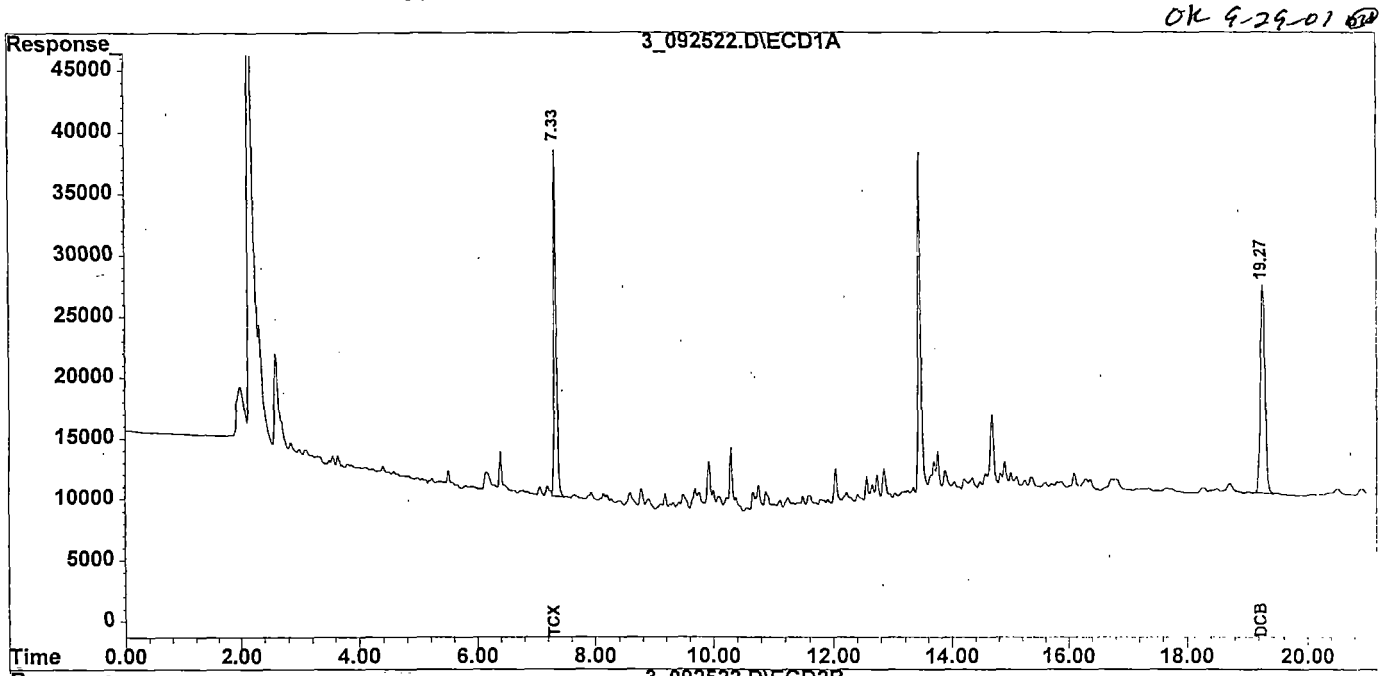
Chromatographic Report

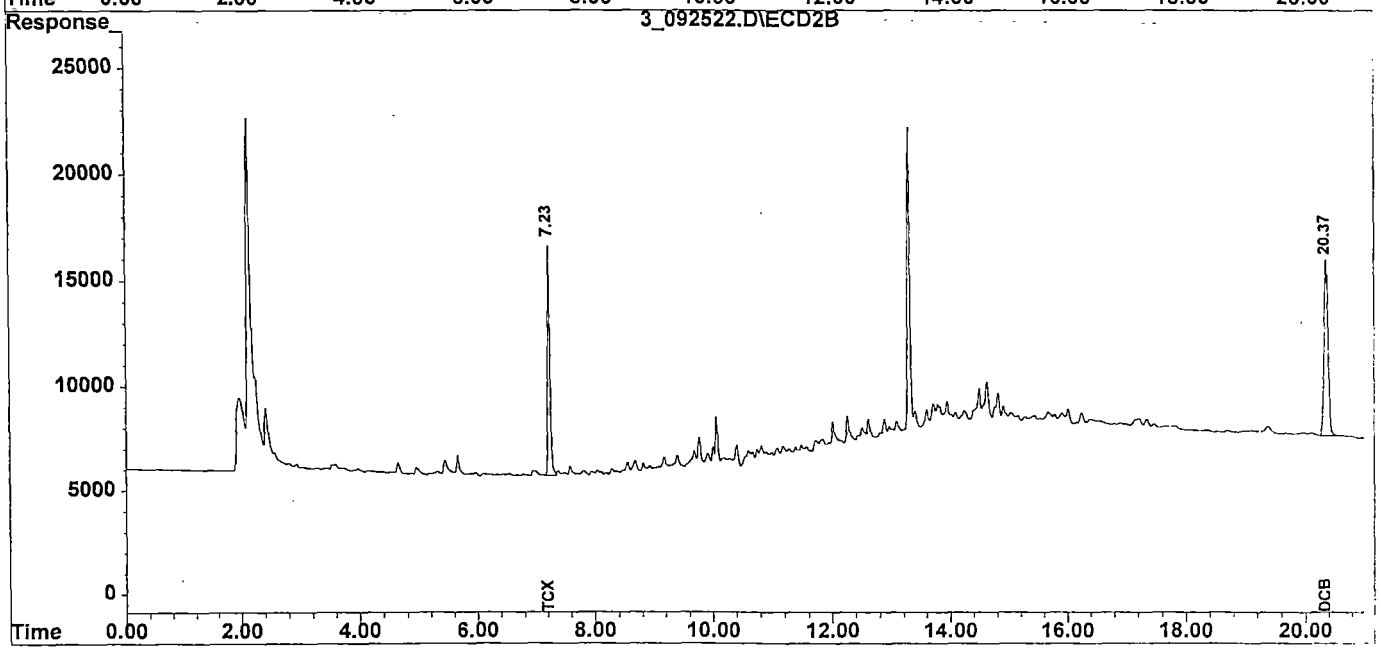
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092522.D\ECD1A.CH Vial: 80
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092522.D\ECD2B.CH
Acq On : 26 Sep 2001 11:07 Operator: BTB
Sample : 47455.10✓,*E04P4✓ * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*56✓ Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 14:17 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

OK 9-29-01





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092522.D\ECD1A.CH Vial: 80
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092522.D\ECD2B.CH
Acq On : 26 Sep 2001 11:07 Operator: BTB
Sample : 47455.10 *E04P4 * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*56 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 14:17 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	851881	296823	6.925	7.670
	Spiked Amount 15.101			Recovery	=	45.86%	50.79%
22)	S DCB	19.27f	20.37	864973	416529	7.216	7.262
	Spiked Amount 15.101			Recovery	=	✓47.78%	✓48.09%

Target Compounds:

34

(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.

E04P5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: 47455.11

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

% Moisture: 60 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	81	U
11104-28-2	Aroclor-1221	81	U
11141-16-5	Aroclor-1232	81	U
53469-21-9	Aroclor-1242	81	U
12672-29-6	Aroclor-1248	81	U
11097-69-1	Aroclor-1254	81	U
11096-82-5	Aroclor-1260	81	U
Surrogate amount spiked		16.33	

FORM I PCB

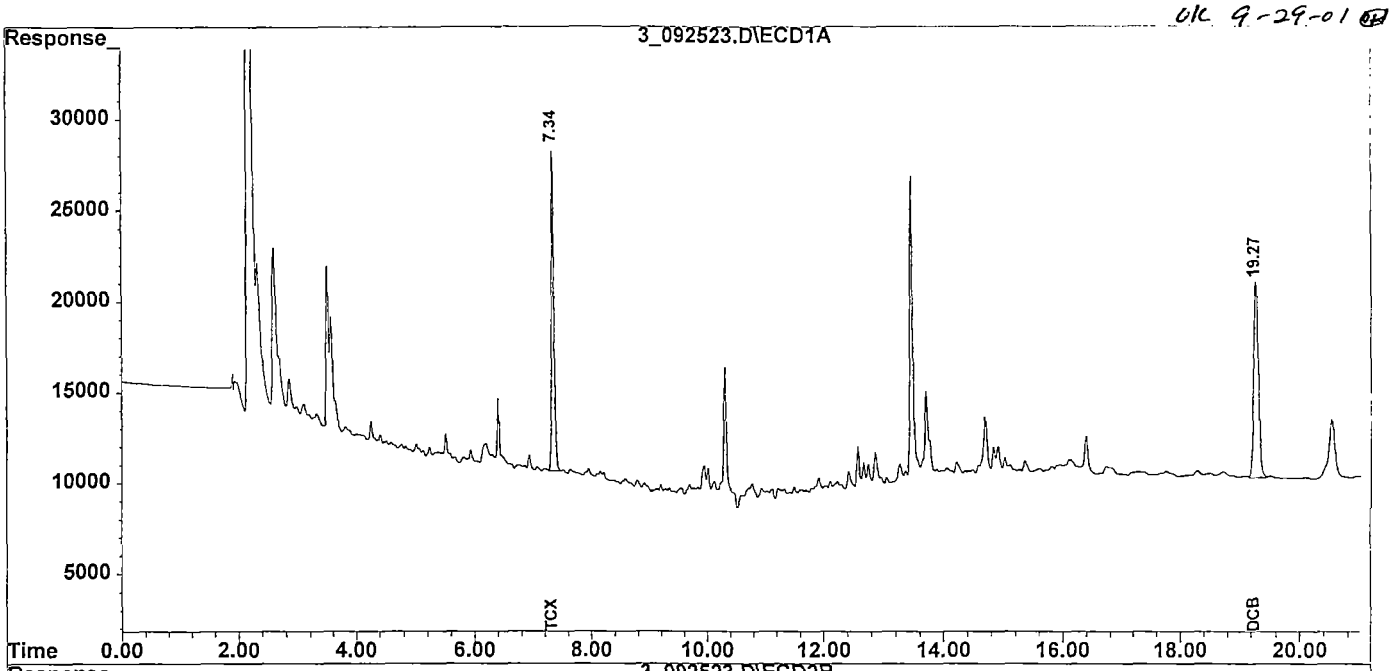
Chromatographic Report

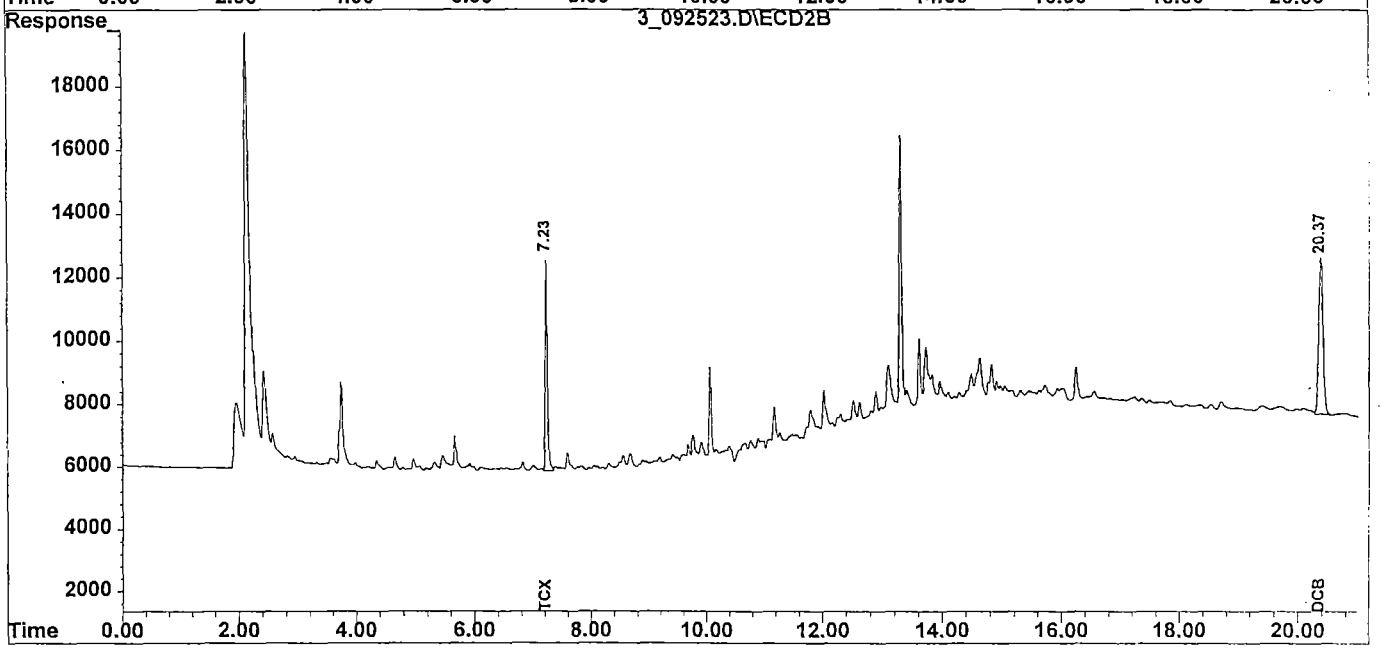
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092523.D\ECD1A.CH Vial: 81
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092523.D\ECD2B.CH
Acq On : 26 Sep 2001 11:32 Operator: BTB
Sample : 47455.11 /*E04P5 / */ Inst : HP_03
Misc : *EPA*30.6G/5.0ML*60 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 14:18 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

ok 9-29-01





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092523.D\ECD1A.CH Vial: 81
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092523.D\ECD2B.CH
Acq On : 26 Sep 2001 11:32 Operator: BTB
Sample : 47455.11 *E04P5 * Inst : HP_03
Misc : *EPA*30.6G/5.0ML*60 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 14:18 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	515103	175748	9.062	9.827
	Spiked Amount 16.340			Recovery	=	55.46%	60.14%
22)	S DCB	19.28f	20.38f	547242	250496	9.879	9.451
	Spiked Amount 16.340			Recovery	=	60.46%	57.84%

Target Compounds:

37

(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.

E04P6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: 47455.12

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

% Moisture: 57 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	76	U
11104-28-2	Aroclor-1221	76	U
11141-16-5	Aroclor-1232	76	U
53469-21-9	Aroclor-1242	76	U
12672-29-6	Aroclor-1248	76	U
11097-69-1	Aroclor-1254	76	U
11096-82-5	Aroclor-1260	76	U
	Surrogate amount spiked	15.40	

FORM I PCB

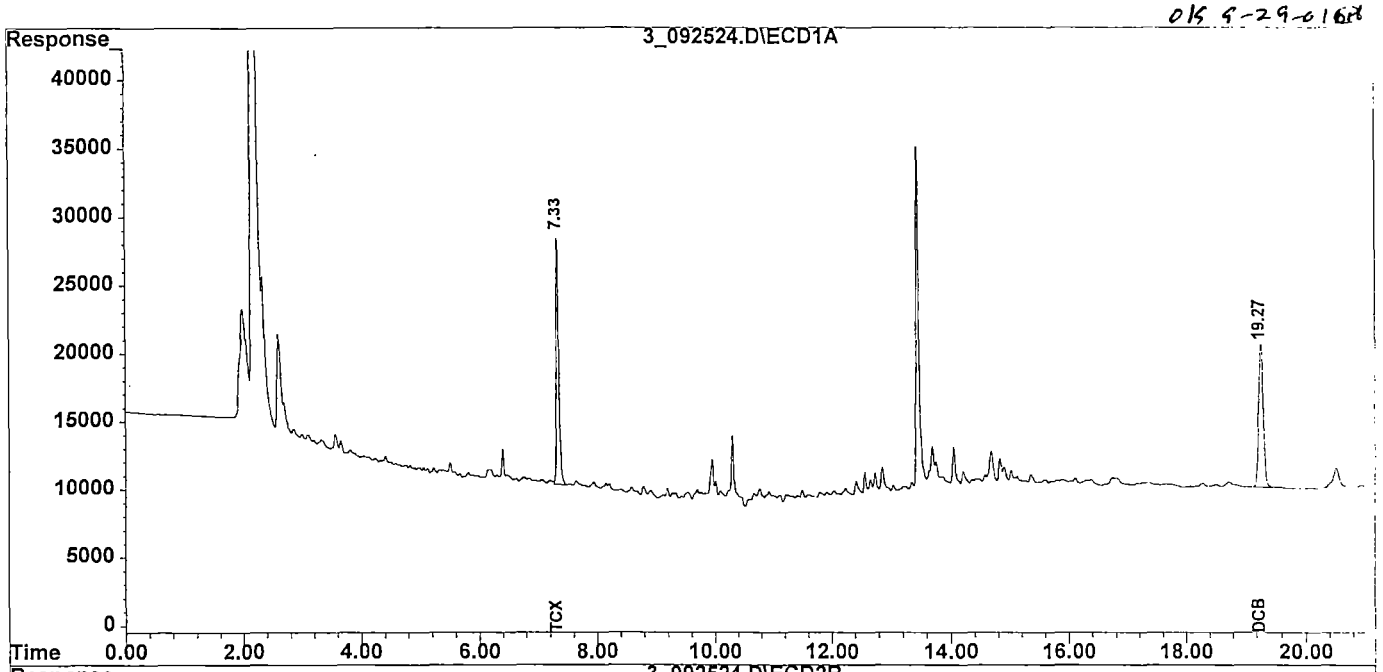
Chromatographic Report

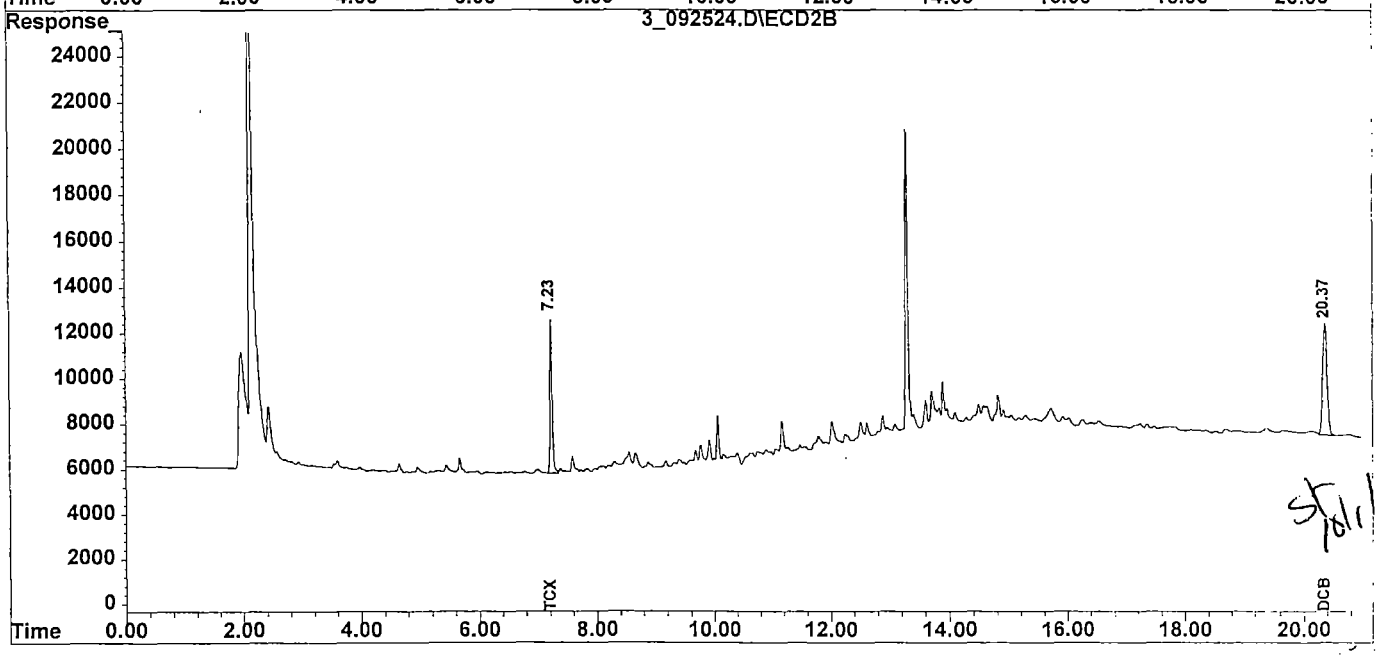
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092524.D\ECD1A.CH Vial: 82
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092524.D\ECD2B.CH
Acq On : 26 Sep 2001 11:58 Operator: BTB
Sample : 47455.12 *E04P6 * Inst : HP_03
Misc : *EPA*30.2G/5.0ML*57 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 14:19 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

OK 9-29-01 [illegible]





ST 10/1/01

38
39

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092524.D\ECD1A.CH Vial: 82
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092524.D\ECD2B.CH
Acq On : 26 Sep 2001 11:58 Operator: BTB
Sample : 47455.12 *E04P6 * Inst : HP_03
Misc : *EPA*30.2G/5.0ML*57 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 14:19 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	523719	174180	8.684	9.180
	Spiked Amount 15.401			Recovery	=	56.39%	59.61%
22)	S DCB	19.27f	20.37	526259	250363	8.955	8.903
	Spiked Amount 15.401			Recovery	=	58.14%	57.81%

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.

E04P7

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: 47455.13

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

% Moisture: 33 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	49	U
11104-28-2	Aroclor-1221	49	U
11141-16-5	Aroclor-1232	49	U
53469-21-9	Aroclor-1242	49	U
12672-29-6	Aroclor-1248	49	U
11097-69-1	Aroclor-1254	49	U
11096-82-5	Aroclor-1260	49	U
	Surrogate amount spiked	9.85	

FORM I PCB

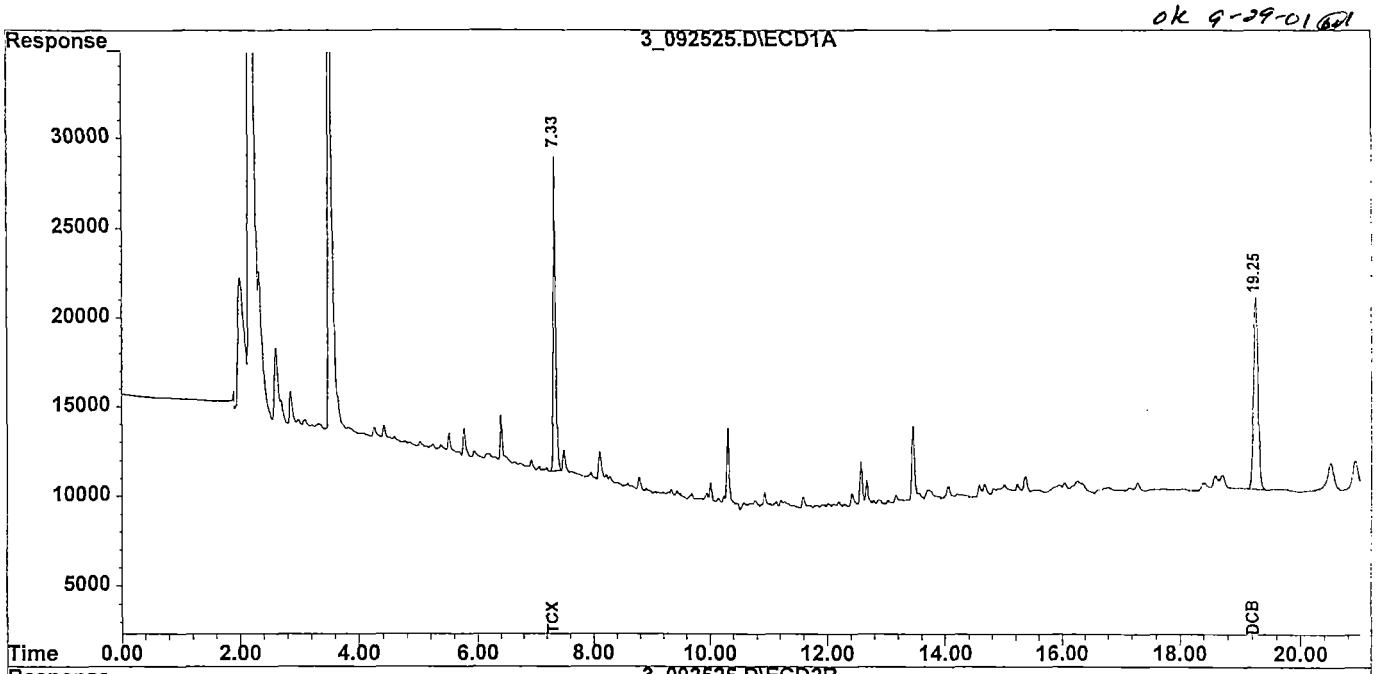
Chromatographic Report

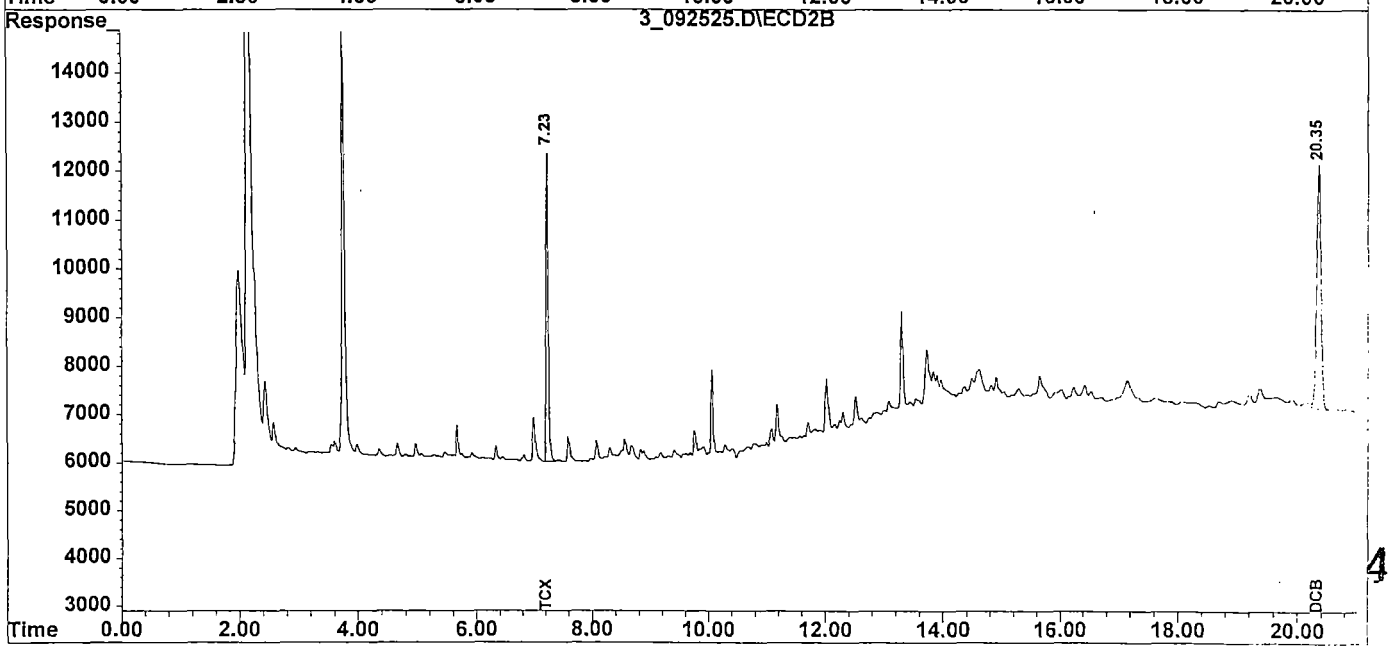
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092525.D\ECD1A.CH Vial: 83
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092525.D\ECD2B.CH
Acq On : 26 Sep 2001 12:24 Operator: BTB
Sample : 47455.13 *E04P7 * Inst : HP_03
Misc : *EPA*30.3G/5.0ML*33 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 14:20 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

ok 9-29-01





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092525.D\ECD1A.CH Vial: 83
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092525.D\ECD2B.CH
Acq On : 26 Sep 2001 12:24 Operator: BTB
Sample : 47455.13 *E04P7 * Inst : HP_03
Misc : *EPA*30.3G/5.0ML*33 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 14:20 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	499144	162200	5.295	5.468
	Spiked Amount 9.852			Recovery	=	53.75%	55.50%
22)	S DCB	19.25	20.35	525616	254790	5.721	5.796
	Spiked Amount 9.852			Recovery	=	58.07%	58.83%

Target Compounds:

43

(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.

E04P8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: 47455.14

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

% Moisture: 58 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	77	UJ
11104-28-2	Aroclor-1221	77	U
11141-16-5	Aroclor-1232	77	U
53469-21-9	Aroclor-1242	77	U
12672-29-6	Aroclor-1248	77	U
11097-69-1	Aroclor-1254	77	U
11096-82-5	Aroclor-1260	77	U
	Surrogate amount spiked	15.61	

TBS
10-18-01

FORM I PCB

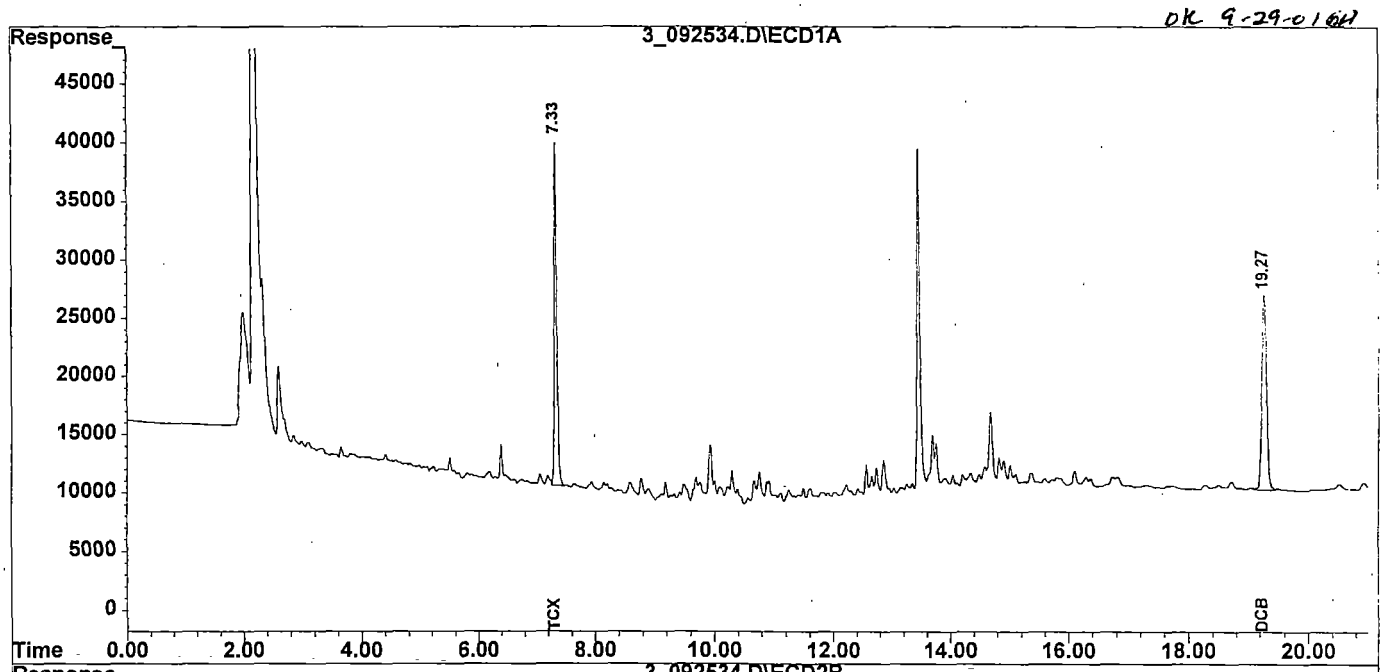
Chromatographic Report

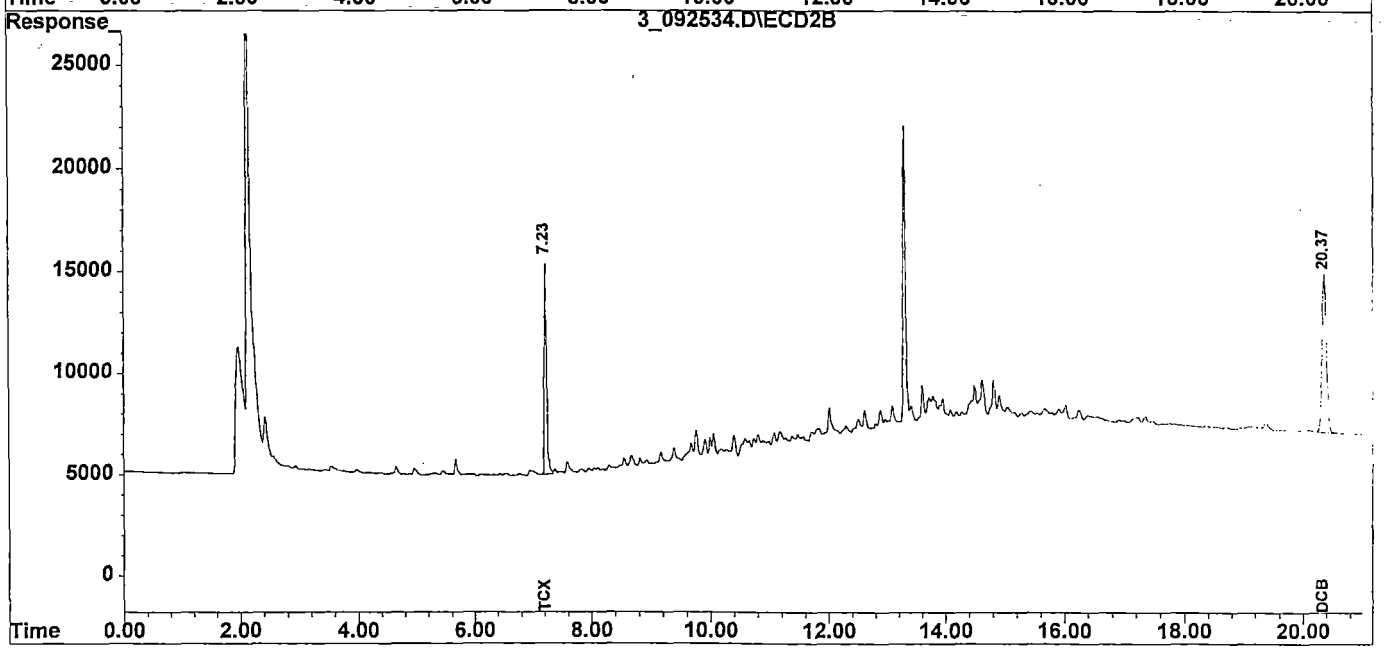
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092534.D\ECD1A.CH Vial: 92
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092534.D\ECD2B.CH
Acq On : 26 Sep 2001 16:16 Operator: BTB
Sample : 47455.14✓/*E04P8✓ */ Inst : HP_03
Misc : *EPA*30.5G/5.0ML*58 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:21 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

OK 9-29-01 GH





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092534.D\ECD1A.CH Vial: 92
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092534.D\ECD2B.CH
Acq On : 26 Sep 2001 16:16 Operator: BTB
Sample : 47455.14 *E04P8 * Inst : HP_03
Misc : *EPA*30.5G/5.0ML*58 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:21 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	887572	277967	14.9	14.9
	Spiked Amount 15.613			Recovery	=	95.43%	95.43%
22)	S DCB	19.27f	20.37	856055	396615	14.8	14.3
	Spiked Amount 15.613			Recovery	=	94.79%	91.59%

Target Compounds:

46

(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.

E04P9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: 47455.15

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

% Moisture: 59 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	80	UJ
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	80	U
53469-21-9	Aroclor-1242	80	U
12672-29-6	Aroclor-1248	80	U
11097-69-1	Aroclor-1254	80	U
11096-82-5	Aroclor-1260	80	U
Surrogate amount spiked		16.16	

TBS
10-18-01

FORM I PCB

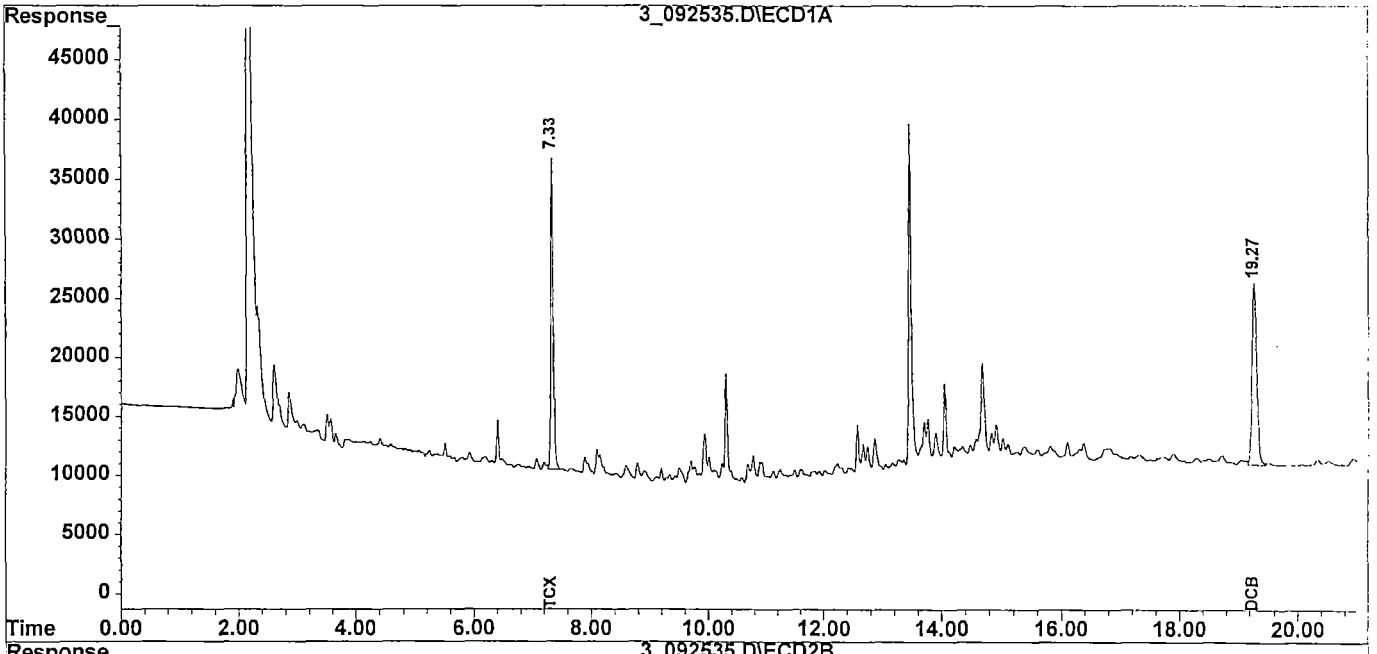
Chromatographic Report

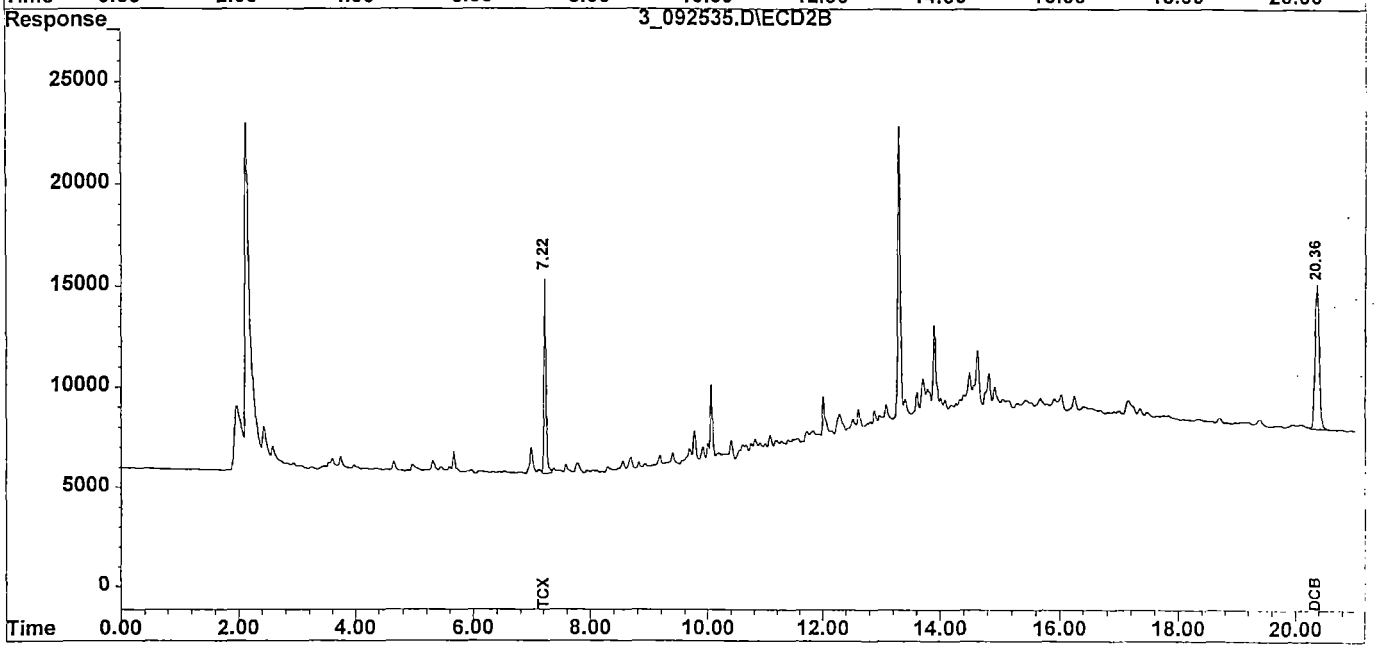
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092535.D\ECD1A.CH Vial: 93
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092535.D\ECD2B.CH
Acq On : 26 Sep 2001 16:41 Operator: BTB
Sample : 47455.15 ,*E04P9 * Inst : HP_03
Misc : *EPA*30.2G/5.0ML*59 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:23 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

OK 9-29-01





48

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092535.D\ECD1A.CH Vial: 93
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092535.D\ECD2B.CH
Acq On : 26 Sep 2001 16:41 Operator: BTB
Sample : 47455.15 *E04P9 * Inst : HP_03
Misc : *EPA*30.2G/5.0ML*59 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:23 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	775862	257348	13.5	14.2
	Spiked Amount 16.152			Recovery	=	83.58%	87.91%
22)	S DCB	19.27	20.37	778092	364885	13.9	13.6
	Spiked Amount 16.152			Recovery	=	86.05%	84.20%

Target Compounds:

49

(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.

E04Q0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: 47455.16

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

% Moisture: 60 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	81	UJ
11104-28-2	Aroclor-1221	81	U
11141-16-5	Aroclor-1232	81	U
53469-21-9	Aroclor-1242	81	U
12672-29-6	Aroclor-1248	81	U
11097-69-1	Aroclor-1254	81	U
11096-82-5	Aroclor-1260	81	U
	Surrogate amount spiked	16.33	

TBS
10-18-01

FORM I PCB

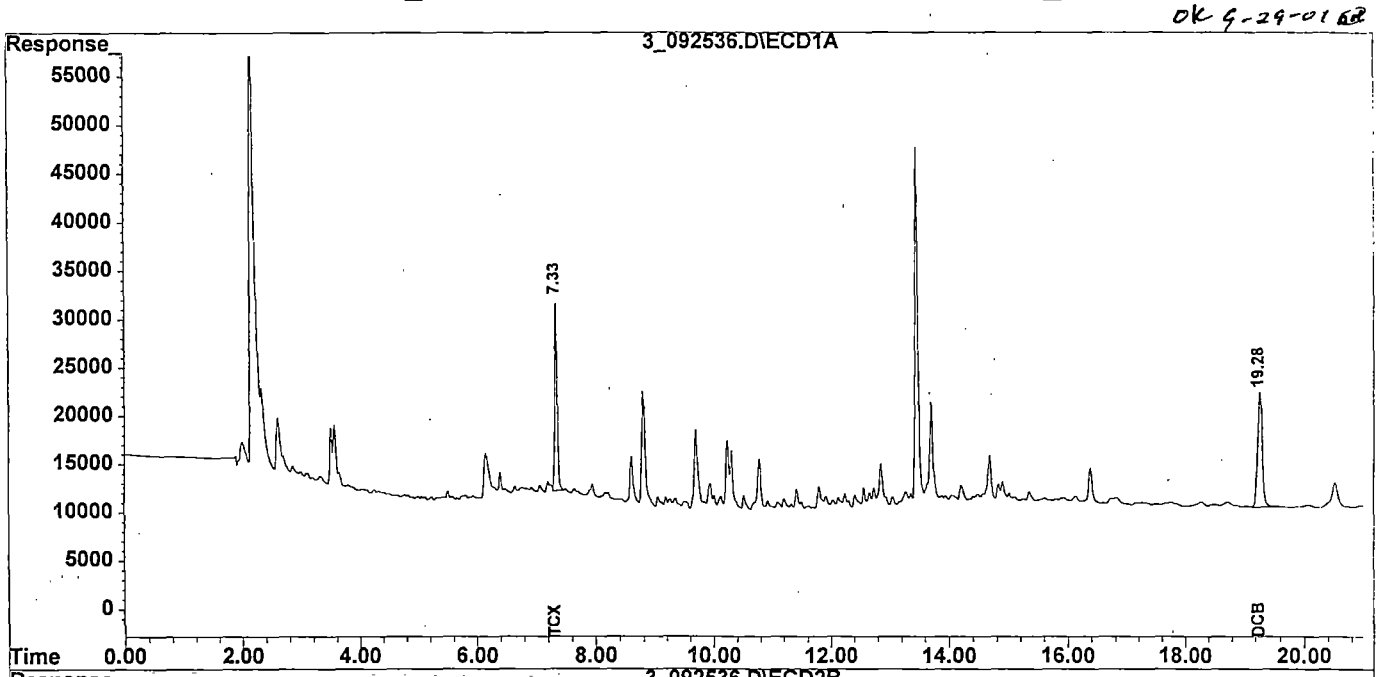
Chromatographic Report

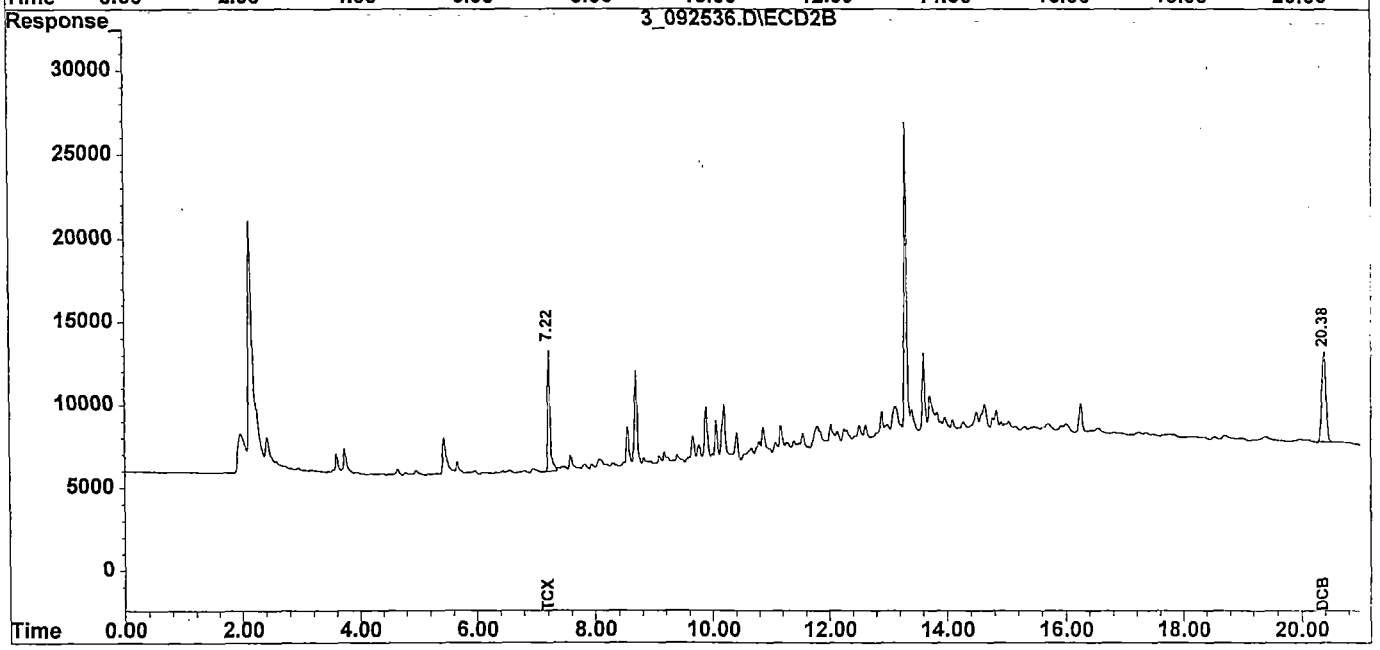
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092536.D\ECD1A.CH Vial: 94
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092536.D\ECD2B.CH
Acq On : 26 Sep 2001 17:07 Operator: BTB
Sample : 47455.16 *E04Q0 * Inst : HP_03
Misc : *EPA*30.6G/5.0ML*60 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:25 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

OK 9-29-01 [illegible]





51

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092536.D\ECD1A.CH Vial: 94
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092536.D\ECD2B.CH
Acq On : 26 Sep 2001 17:07 Operator: BTB
Sample : 47455.16 *E04Q0 * Inst : HP_03
Misc : *EPA*30.6G/5.0ML*60 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:25 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	570375	206683	10.0	11.6
	Spiked Amount 16.340			Recovery	=	61.20%	70.99%
22)	S DCB	19.28f	20.38f	609547	266124	11.0	10.0
	Spiked Amount 16.340			Recovery	=	67.32%	61.20%

Target Compounds:

52

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
3_092536.D XPCBI24.M Thu Sep 27 08:45:13 2001 Page 1

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E04Q1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: 47455.17

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

% Moisture: 62 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	86	U
11104-28-2	Aroclor-1221	86	U
11141-16-5	Aroclor-1232	86	U
53469-21-9	Aroclor-1242	86	U
12672-29-6	Aroclor-1248	86	U
11097-69-1	Aroclor-1254	86	U
11096-82-5	Aroclor-1260	86	U
	Surrogate amount spiked	17.38	

TBS
10-18-01

FORM I PCB

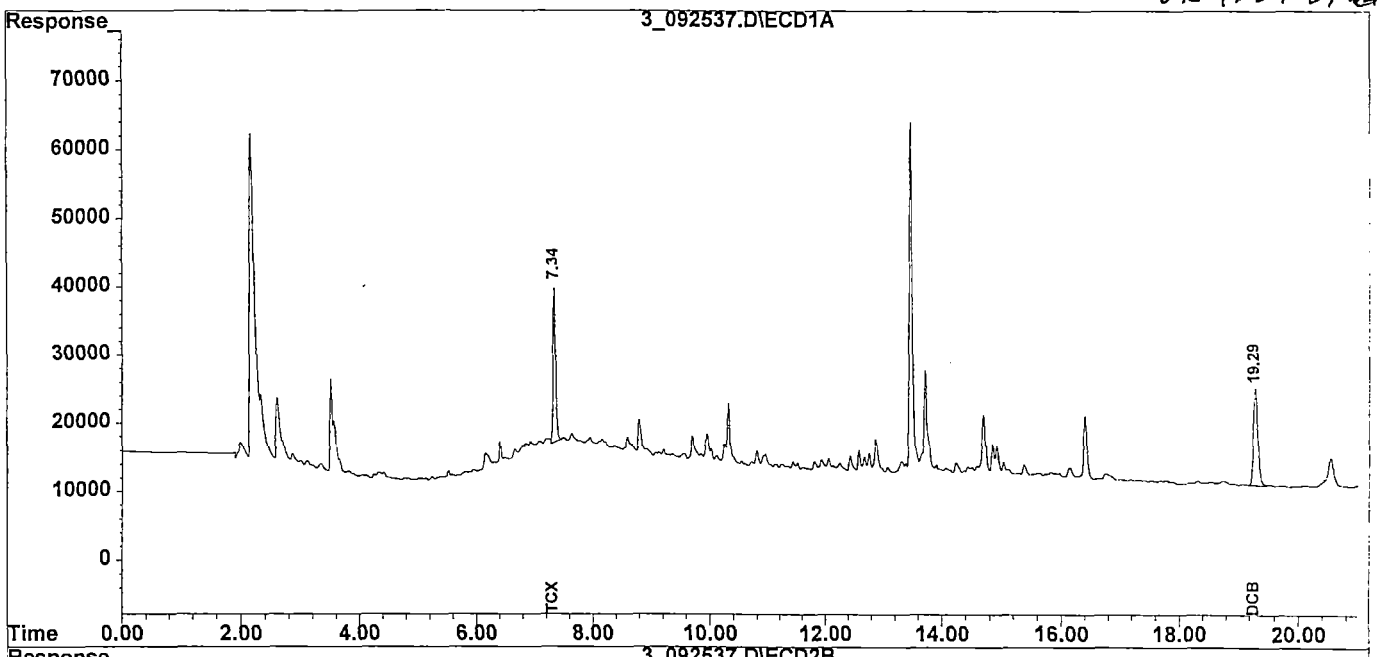
Chromatographic Report

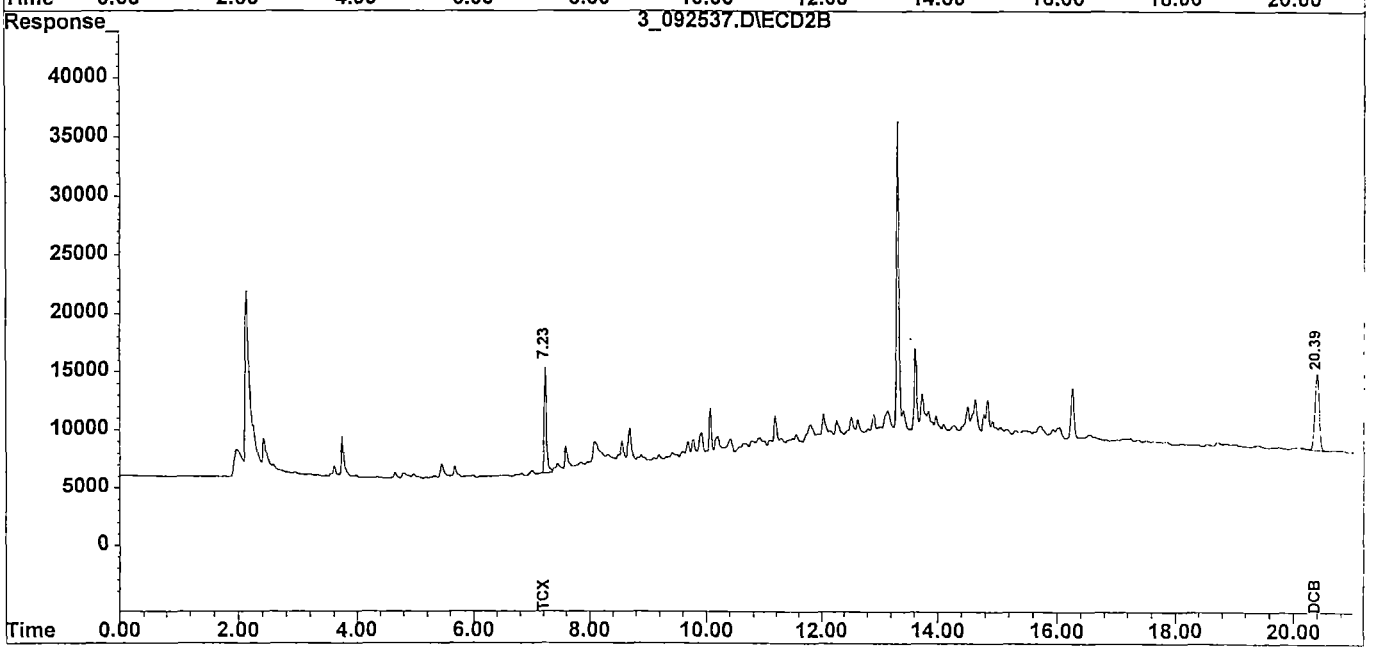
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092537.D\ECD1A.CH Vial: 95
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092537.D\ECD2B.CH
Acq On : 26 Sep 2001 17:33 Operator: BTB
Sample : 47455.17 /*E04Q1/* Inst : HP_03
Misc : *EPA*30.3G/5.0ML*62 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:38 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

OK 9-29-01





54

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092537.D\ECD1A.CH Vial: 95
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092537.D\ECD2B.CH
Acq On : 26 Sep 2001 17:33 Operator: BTB
Sample : 47455.17 *E04Q1 * Inst : HP_03
Misc : *EPA*30.3G/5.0ML*62 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:38 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	687757	249480	12.9	14.8
	Spiked Amount 17.370			Recovery	=	74.27%	85.20%
22)	S DCB	19.29f	20.39f	734037	339624	14.1	13.6
	Spiked Amount 17.370			Recovery	=	81.17%	78.30%

Target Compounds:

55

(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.

E04Q2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: 47455.18

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

% Moisture: 57 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	76	UJ
11104-28-2	Aroclor-1221	76	U
11141-16-5	Aroclor-1232	76	U
53469-21-9	Aroclor-1242	76	U
12672-29-6	Aroclor-1248	76	U
11097-69-1	Aroclor-1254	76	U
11096-82-5	Aroclor-1260	76	U
Surrogate amount spiked		15.46	

TBS
10-18-01

FORM I PCB

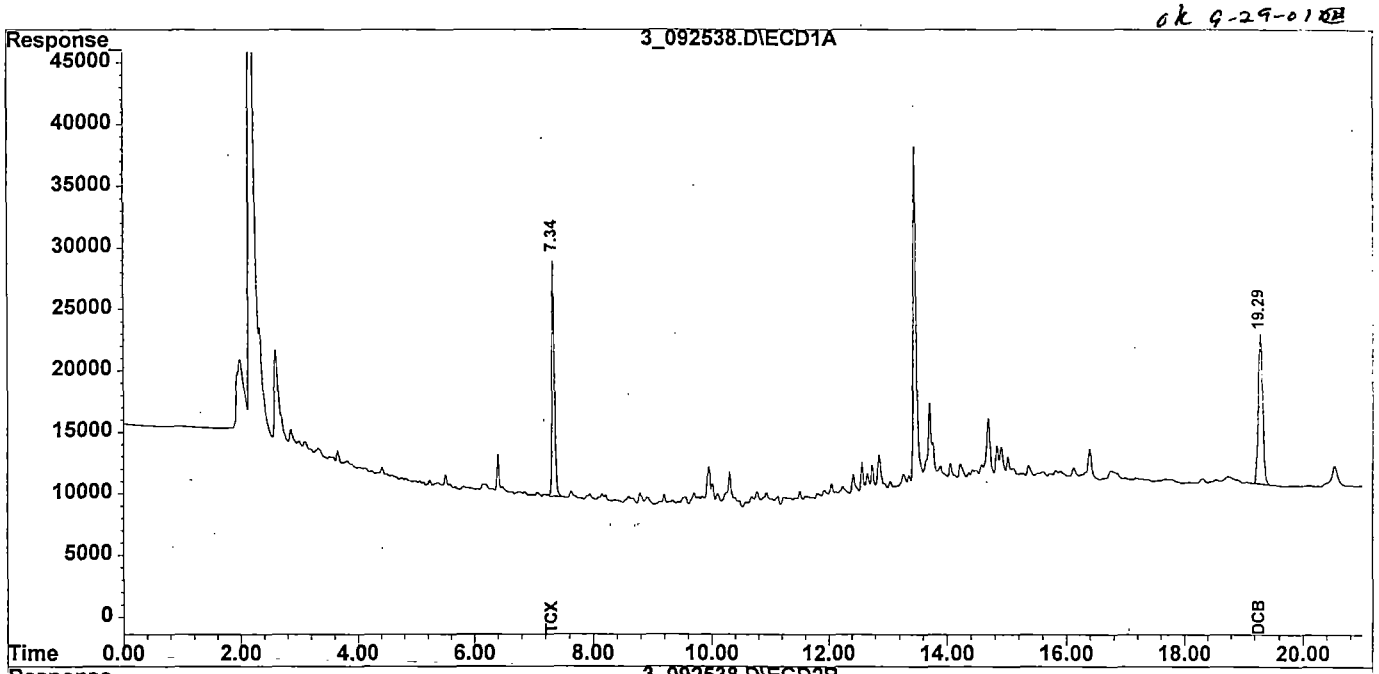
Chromatographic Report

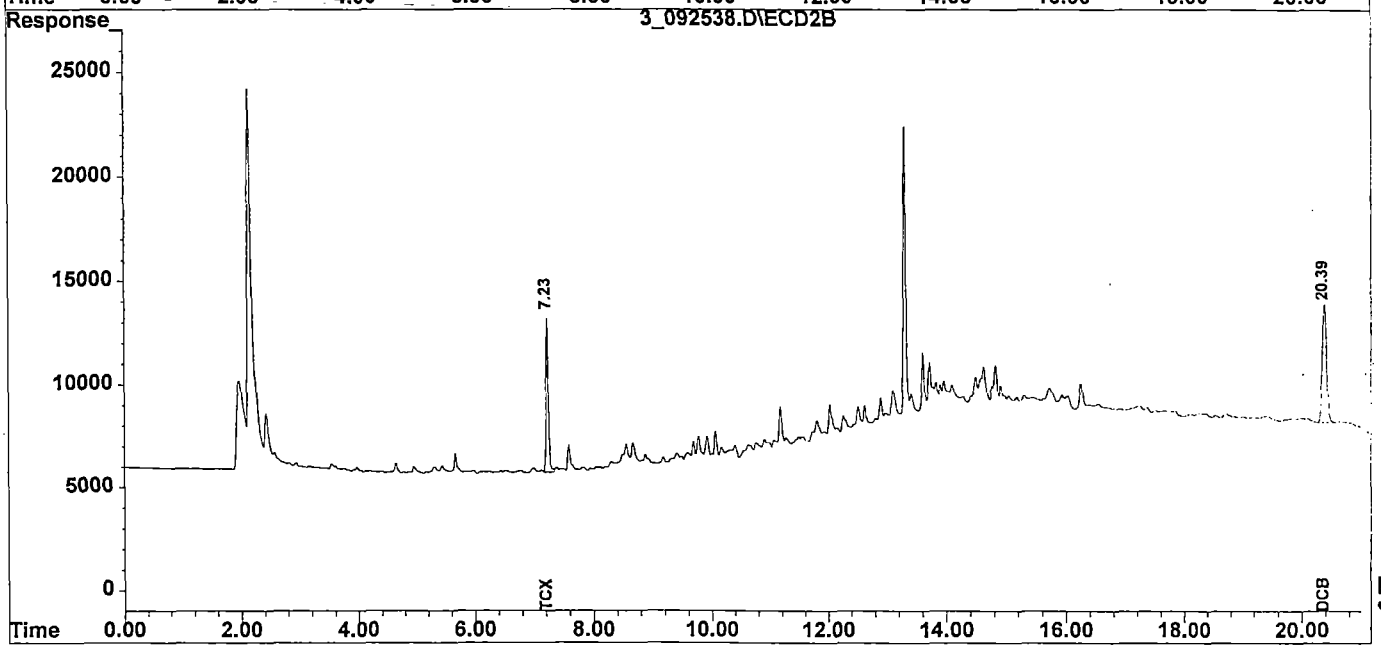
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092538.D\ECD1A.CH Vial: 96
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092538.D\ECD2B.CH
Acq On : 26 Sep 2001 17:58 Operator: BTB
Sample : 47455.18',*E04Q2✓ *, Inst : HP_03
Misc : *EPA*30.1G/5.0ML*57 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:39 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

ok 9-29-01





57

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092538.D\ECD1A.CH Vial: 96
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092538.D\ECD2B.CH
Acq On : 26 Sep 2001 17:58 Operator: BTB
Sample : 47455.18 *E04Q2 * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*57 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:39 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	557669	196472	9.278	10.4
	Spiked Amount 15.452			Recovery	=	60.04%	67.30%
22)	S DCB	19.29f	20.39f	605194	287205	10.3	10.2
	Spiked Amount 15.452			Recovery	=	66.66%	66.01%

Target Compounds:

58

(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.

E04Q3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: 47455.19

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

% Moisture: 33 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	48	U J
11104-28-2	Aroclor-1221	48	U
11141-16-5	Aroclor-1232	48	U
53469-21-9	Aroclor-1242	48	U
12672-29-6	Aroclor-1248	48	U
11097-69-1	Aroclor-1254	48	U
11096-82-5	Aroclor-1260	48	U
	Surrogate amount spiked	9.76	

TBS
10-18-01

FORM I PCB

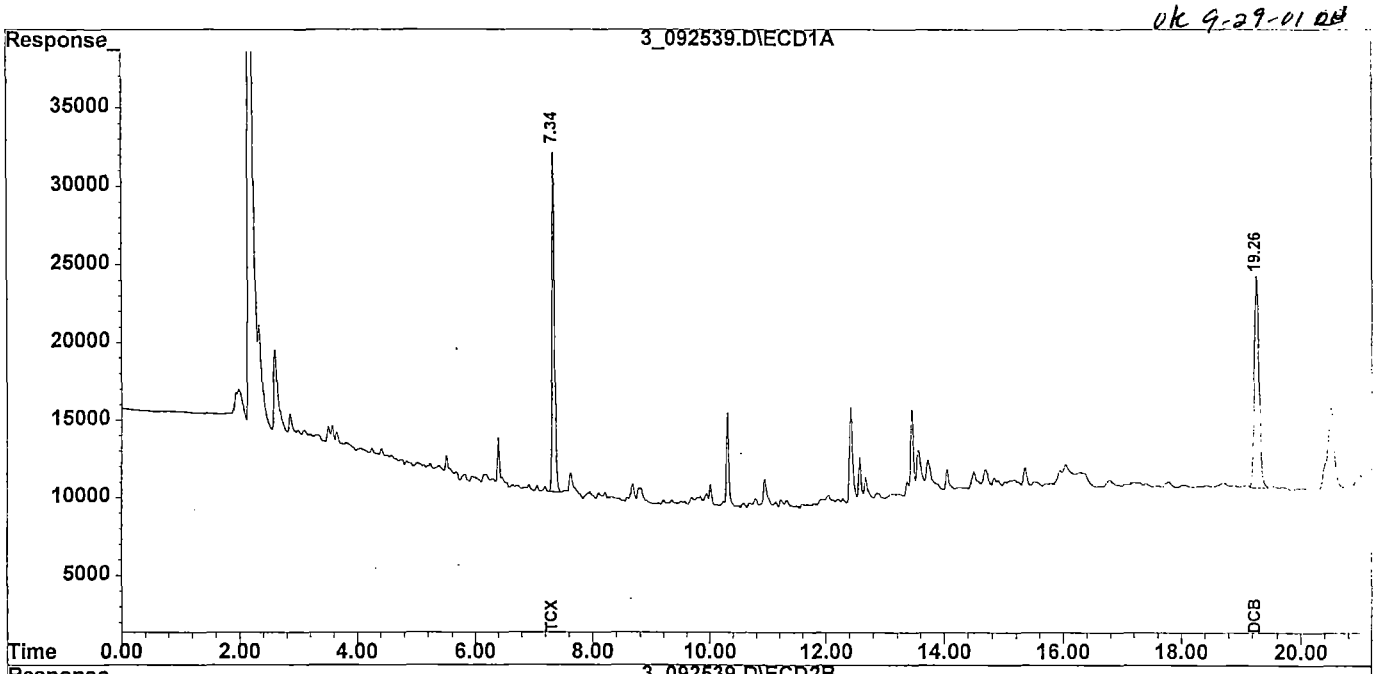
Chromatographic Report

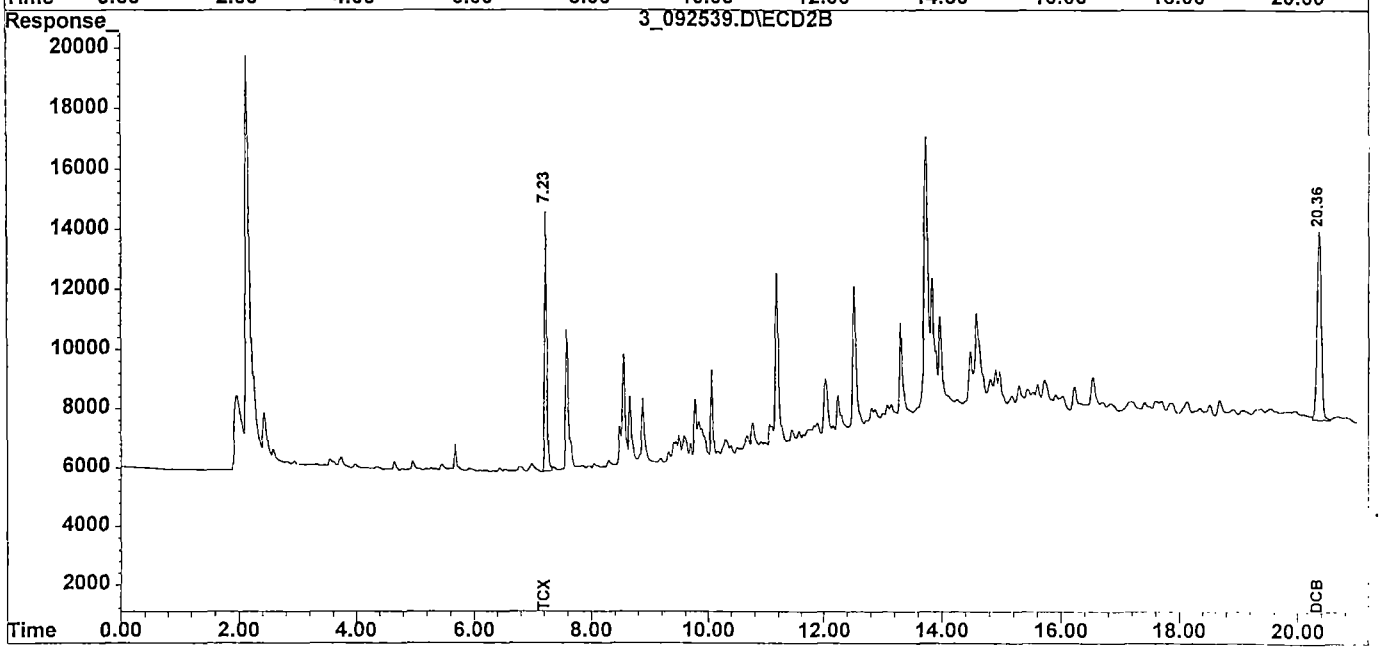
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092539.D\ECD1A.CH Vial: 97
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092539.D\ECD2B.CH
Acq On : 26 Sep 2001 18:24 Operator: BTB
Sample : 47455.19' /*E04Q3V *, Inst : HP_03
Misc : *EPA*30.6G/5.0ML*33 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:40 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

ok 9-29-01 [illegible]





60

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092539.D\ECD1A.CH Vial: 97
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092539.D\ECD2B.CH
Acq On : 26 Sep 2001 18:24 Operator: BTB
Sample : 47455.19 *E04Q3 * Inst : HP_03
Misc : *EPA*30.6G/5.0ML*33 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:40 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	629241	222758	6.609	7.437
	Spiked Amount 9.755			Recovery	=	67.75%	76.24%
22)	S DCB	19.26	20.36	677963	330995	7.307	7.456
	Spiked Amount 9.755			Recovery	=	74.90%	76.43%

Target Compounds:

61

(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.

E04Q4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: 47455.20

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

% Moisture: 45 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	60	U
11104-28-2	Aroclor-1221	60	U
11141-16-5	Aroclor-1232	60	U
53469-21-9	Aroclor-1242	60	U
12672-29-6	Aroclor-1248	60	U
11097-69-1	Aroclor-1254	60	U
11096-82-5	Aroclor-1260	60	U
	Surrogate amount spiked	12.04	

TBS
10-18-01

FORM I PCB

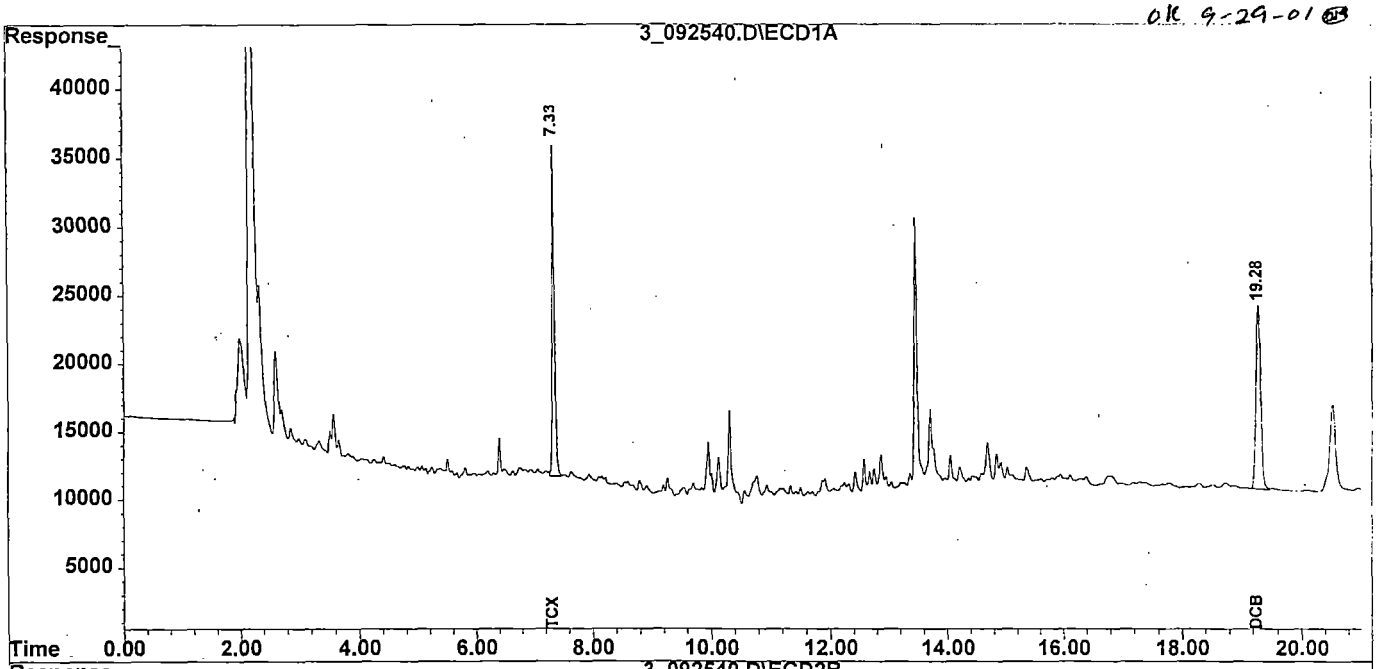
Chromatographic Report

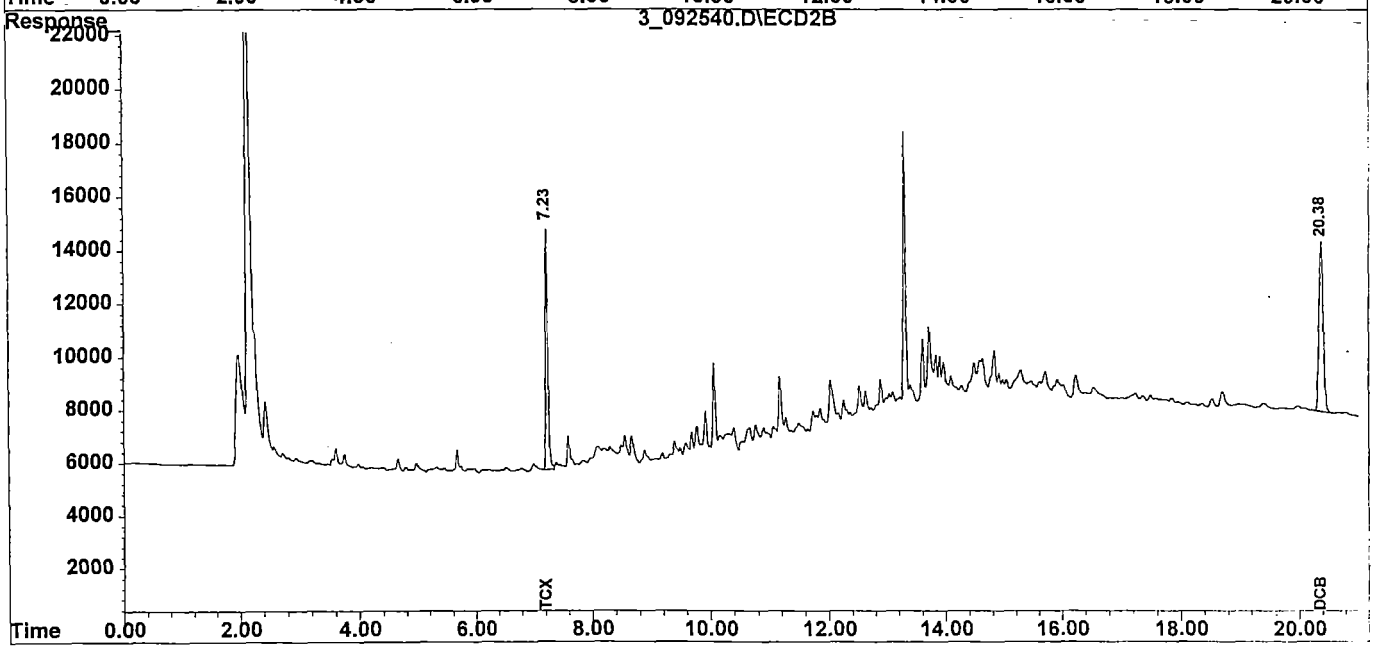
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092540.D\ECD1A.CH Vial: 98
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092540.D\ECD2B.CH
Acq On : 26 Sep 2001 18:50 Operator: BTB
Sample : 47455.20',*E04Q4' * Inst : HP_03
Misc : *EPA*30.2G/5.0ML*45' Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:42 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

OK 9-29-01





63

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092540.D\ECD1A.CH Vial: 98
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092540.D\ECD2B.CH
Acq On : 26 Sep 2001 18:50 Operator: BTB
Sample : 47455.20 *E04Q4 * Inst : HP_03
Misc : *EPA*30.2G/5.0ML*45 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:42 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	699734	232171	9.072	9.567
	Spiked Amount 12.041			Recovery	=	75.34%	79.45%
22)	S DCB	19.28f	20.38f	686153	322632	9.128	8.970
	Spiked Amount 12.041			Recovery	=	✓75.81%	✓74.50%

Target Compounds:

64

(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.

E04Q5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: 47455.21

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

% Moisture: 29 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	46	UJ
11104-28-2	Aroclor-1221	46	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	46	U
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	46	U
	Surrogate amount spiked	9.30	

TBS
10-18-01

FORM I PCB

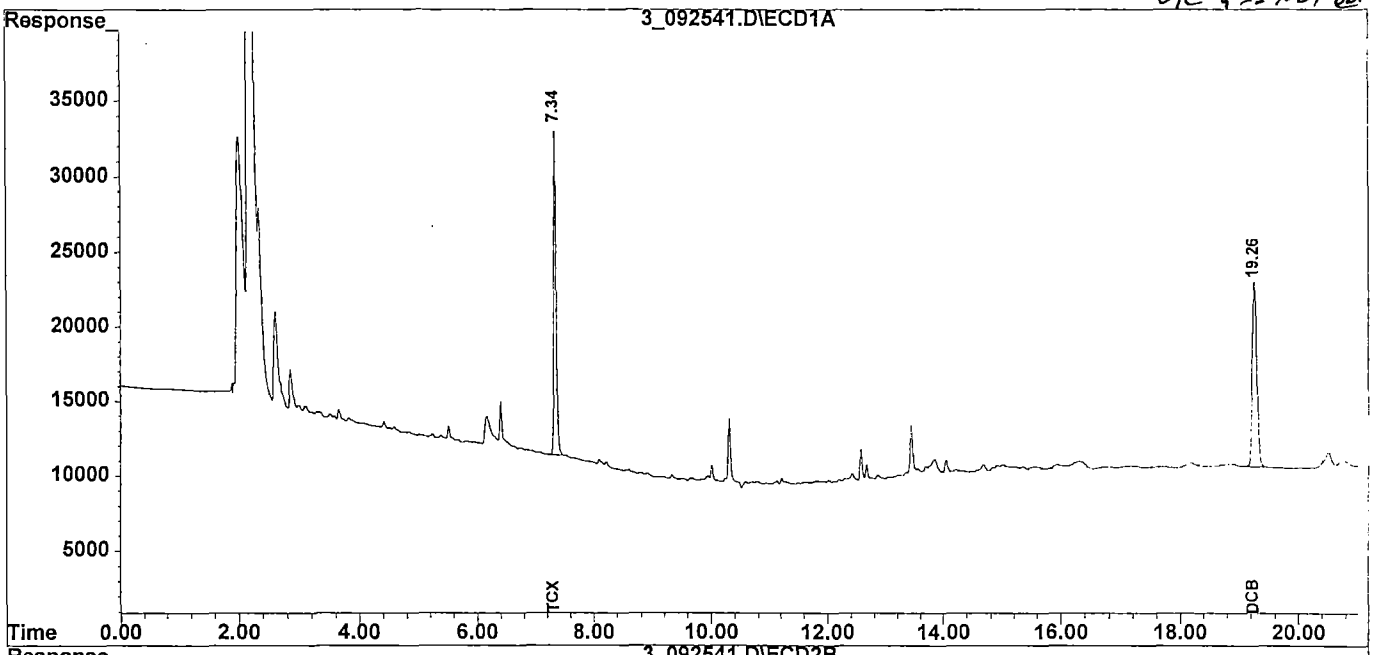
Chromatographic Report

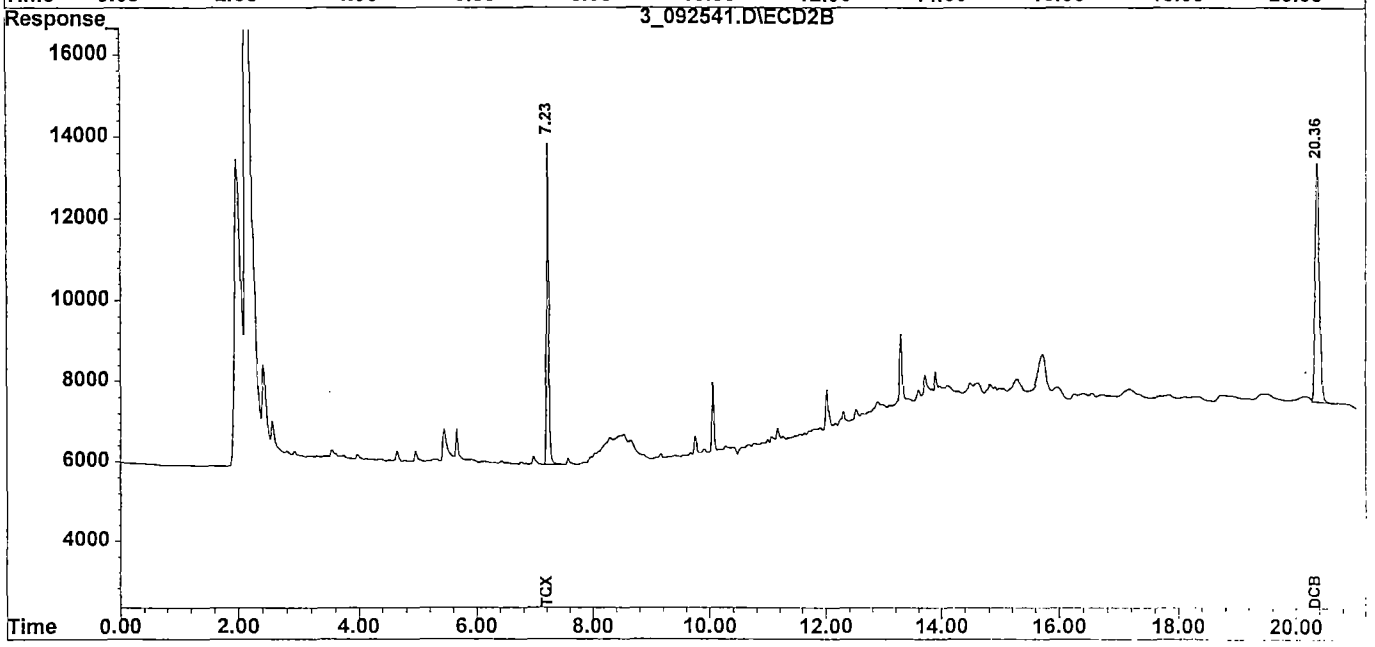
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092541.D\ECD1A.CH Vial: 99
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092541.D\ECD2B.CH
Acq On : 26 Sep 2001 19:16 Operator: BTB
Sample : 47455.21 *E04Q5 * Inst : HP_03
Misc : *EPA*30.3G/5.0ML*29 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:43 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

O/C 9-29-01





66

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092541.D\ECD1A.CH Vial: 99
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092541.D\ECD2B.CH
Acq On : 26 Sep 2001 19:16 Operator: BTB
Sample : 47455.21 *E04Q5 * Inst : HP_03
Misc : *EPA*30.3G/5.0ML*29 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:43 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	627875	203461	6.285	6.473
	Spiked Amount 9.297			Recovery	=	67.60%	69.63%
22)	S DCB	19.26	20.36	620293	297433	6.371	6.385
	Spiked Amount 9.297			Recovery	=	68.53%	68.68%

Target Compounds:

67

(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.

E04Q6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: 47455.22

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

% Moisture: 62 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	85	UJ
11104-28-2	Aroclor-1221	85	U
11141-16-5	Aroclor-1232	85	U
53469-21-9	Aroclor-1242	85	U
12672-29-6	Aroclor-1248	85	U
11097-69-1	Aroclor-1254	85	U
11096-82-5	Aroclor-1260	85	U
Surrogate amount spiked		17.26	

TBS
10-18-01

FORM I PCB

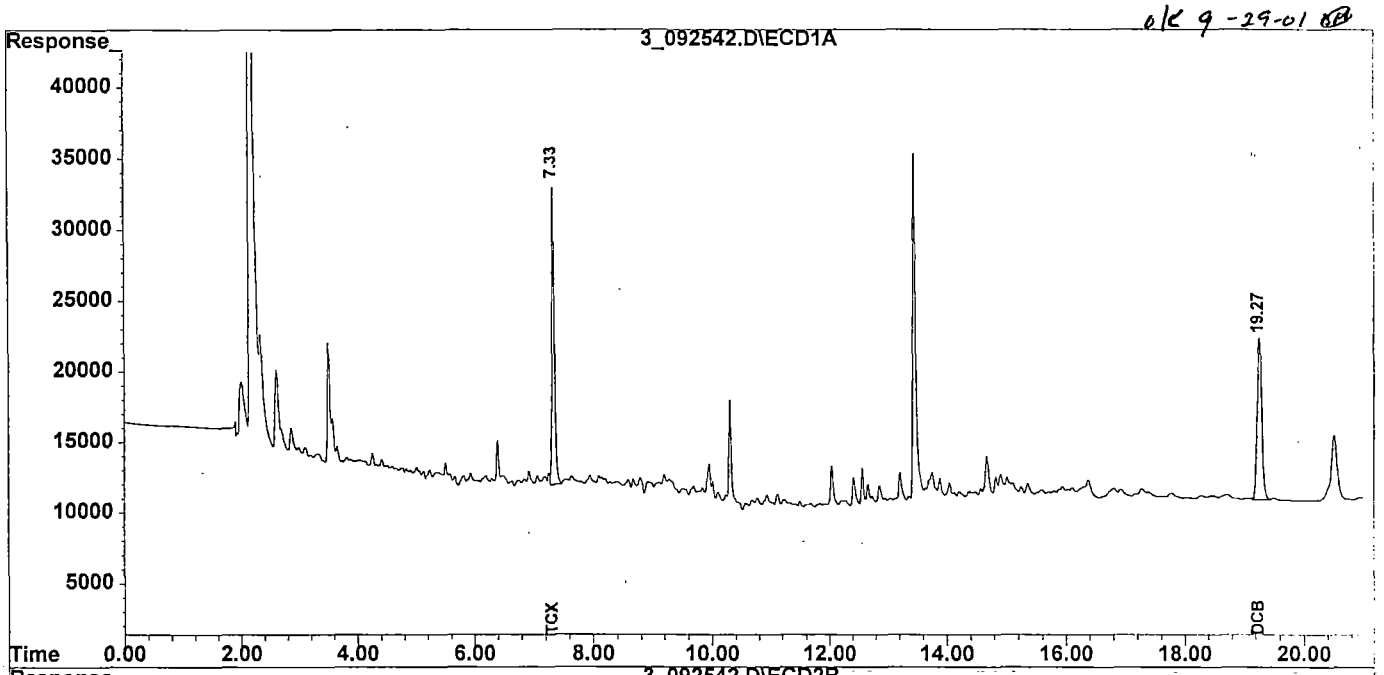
Chromatographic Report

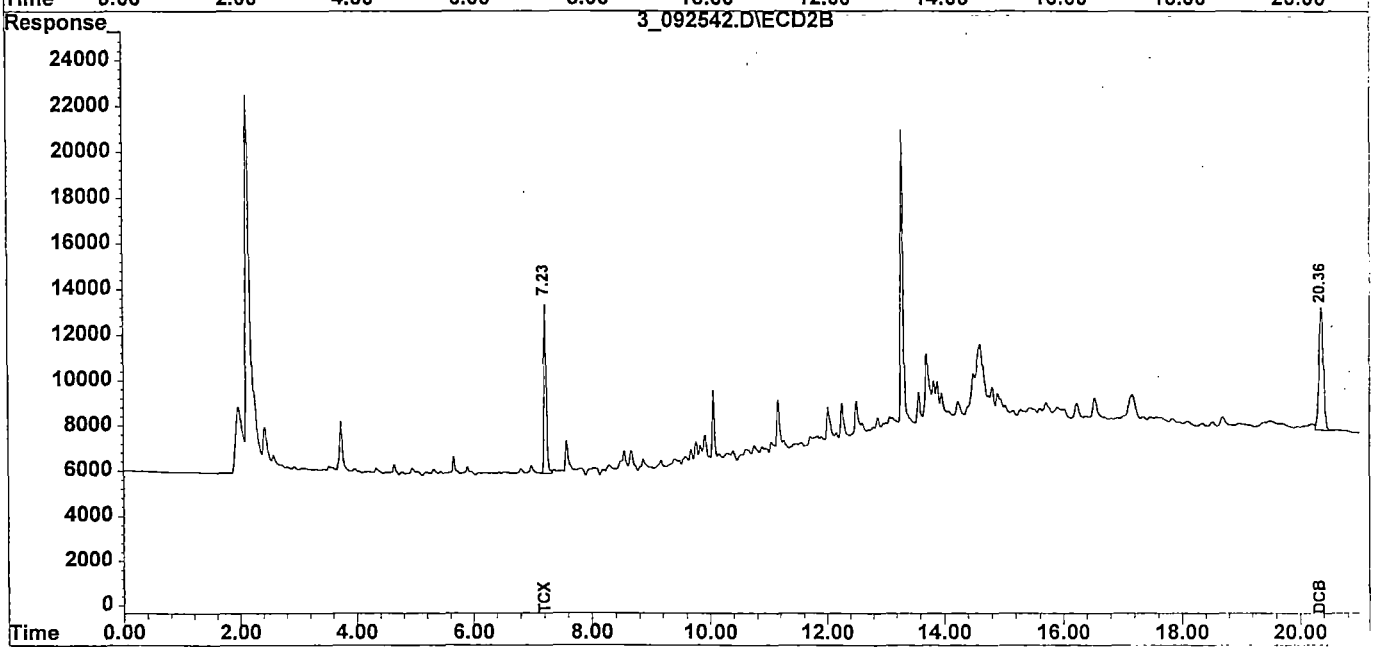
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092542.D\ECD1A.CH Vial: 100
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092542.D\ECD2B.CH
Acq On : 26 Sep 2001 19:41 Operator: BTB
Sample : 47455.22 *E04Q6 * Inst : HP_03
Misc : *EPA*30.5G/5.0ML*62 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:44 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

ok 9-29-01





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092542.D\ECD1A.CH Vial: 100
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092542.D\ECD2B.CH
Acq On : 26 Sep 2001 19:41 Operator: BTB
Sample : 47455.22 *E04Q6 * Inst : HP_03
Misc : *EPA*30.5G/5.0ML*62 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:44 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	607244	191855	11.3	11.3
	Spiked Amount 17.256			Recovery	=	65.48%	65.48%
22)	S DCB	19.27	20.36	573616	276589	10.9	11.0
	Spiked Amount 17.256			Recovery	=	63.17%	63.75%

Target Compounds:

70

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

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Instrument ID: HP_03A Date(s) Analyzed: 09/24/01 09/24/01

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	8.53	1206390	MEAN
		2	9.26	2248060	
		3	10.14	4284270	
		4	11.18	1574120	
		5	12.33	939330	
Aroclor 1242 L2	0.20	1	8.53	1126865	MEAN
		2	9.26	2052240	
		3	10.13	3877365	
		4	11.17	1554840	
		5	12.33	959835	
Aroclor 1242 L3	0.40	1	8.53	1240568	MEAN
		2	9.26	2112383	
		3	10.13	3999783	
		4	11.17	1669390	
		5	12.32	1164490	
Aroclor 1242 L4	0.80	1	8.53	987080	MEAN
		2	9.26	1738201	
		3	10.13	3308989	
		4	11.17	1404220	
		5	12.32	1040261	
Aroclor 1242 L5	1.60	1	8.53	907198	MEAN
		2	9.26	1586049	
		3	10.13	3083373	
		4	11.17	1364973	
		5	12.32	1036466	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	8.53	8.48	8.58	1093620	13.1
	2	9.26	9.21	9.31	1947387	14.1
	3	10.13	10.08	10.18	3710756	13.4
	4	11.17	11.12	11.22	1513509	8.3
	5	12.32	12.27	12.37	1028076	8.6

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Instrument ID: HP_03B Date(s) Analyzed: 09/24/01 09/24/01

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	8.57	337370	MEAN
		2	9.39	764790	
		3	10.09	1465910	
		4	11.28	436110	
		5	12.39	382120	
Aroclor 1242 L2	0.20	1	8.57	332950	MEAN
		2	9.39	729430	
		3	10.09	1394140	
		4	11.28	427060	
		5	12.38	370340	
Aroclor 1242 L3	0.40	1	8.57	365085	MEAN
		2	9.39	786910	
		3	10.09	1531863	
		4	11.28	487778	
		5	12.37	429220	
Aroclor 1242 L4	0.80	1	8.57	312630	MEAN
		2	9.39	662855	
		3	10.09	1292915	
		4	11.28	425554	
		5	12.37	379525	
Aroclor 1242 L5	1.60	1	8.57	296691	MEAN
		2	9.39	620150	
		3	10.09	1209011	
		4	11.27	420108	
		5	12.37	399430	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	8.57	8.52	8.62	328945	7.9
	2	9.39	9.34	9.44	712827	9.8
	3	10.09	10.04	10.14	1378768	9.4
	4	11.28	11.23	11.33	439322	6.3
	5	12.38	12.33	12.43	392127	5.9

FORM VI PCB-3

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Instrument ID: HP_03A Date(s) Analyzed: 09/24/01 09/24/01

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	10.72	1956360	MEAN
		2	11.86	3723230	
		3	12.18	3389260	
		4	12.96	3481900	
		5	14.20	2635050	
Aroclor 1254 L2	0.20	1	10.72	2091955	MEAN
		2	11.86	3727905	
		3	12.18	3356790	
		4	12.96	3583230	
		5	14.19	2832710	
Aroclor 1254 L3	0.40	1	10.72	2125113	MEAN
		2	11.86	3670700	
		3	12.18	3310358	
		4	12.96	3523008	
		5	14.19	2791713	
Aroclor 1254 L4	0.80	1	10.72	1780941	MEAN
		2	11.86	3230915	
		3	12.18	2946284	
		4	12.96	3156976	
		5	14.19	2534134	
Aroclor 1254 L5	1.60	1	10.72	1569953	MEAN
		2	11.86	2889789	
		3	12.17	2631557	
		4	12.95	2955220	
		5	14.19	2437994	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	10.72	10.67	10.77	1904864	12.1
	2	11.86	11.81	11.91	3448508	10.9
	3	12.18	12.13	12.23	3126850	10.5
	4	12.96	12.91	13.01	3340067	8.1
	5	14.19	14.14	14.24	2646320	6.3

FORM VI PCB-3

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Instrument ID: HP_03B Date(s) Analyzed: 09/24/01 09/24/01

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	10.68	518990	MEAN
		2	12.10	1163100	
		3	13.04	1504770	
		4	13.47	802970	
		5	14.26	993640	
Aroclor 1254 L2	0.20	1	10.67	514250	MEAN
		2	12.10	1158000	
		3	13.03	1543430	
		4	13.46	800035	
		5	14.26	1024445	
Aroclor 1254 L3	0.40	1	10.67	508990	MEAN
		2	12.10	1132903	
		3	13.03	1552720	
		4	13.46	807178	
		5	14.25	1069493	
Aroclor 1254 L4	0.80	1	10.67	461029	MEAN
		2	12.10	1010495	
		3	13.03	1426423	
		4	13.46	731258	
		5	14.25	999785	
Aroclor 1254 L5	1.60	1	10.67	420788	MEAN
		2	12.09	921744	
		3	13.03	1191063	
		4	13.46	681974	
		5	14.25	958044	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	10.67	10.62	10.72	484809	8.8
	2	12.10	12.05	12.15	1077248	9.9
	3	13.03	12.98	13.08	1443681	10.4
	4	13.46	13.41	13.51	764683	7.3
	5	14.25	14.20	14.30	1009081	4.1

FORM VI PCB-3

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Instrument ID: HP_03A Date(s) Analyzed: 09/24/01 09/24/01

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	8.53	1223480	MEAN
		2	9.27	2593200	
		3	10.14	4770550	
		4	10.77	4159700	
		5	11.18	1881740	
Aroclor 1016 L2	0.20	1	8.53	1185360	MEAN
		2	9.26	2450240	
		3	10.13	4568035	
		4	10.77	3655145	
		5	11.18	1843895	
Aroclor 1016 L3	0.40	1	8.53	1138385	MEAN
		2	9.26	2140965	
		3	10.14	4151255	
		4	10.77	3185315	
		5	11.18	1762410	
Aroclor 1016 L4	0.80	1	8.53	1068788	MEAN
		2	9.26	1981370	
		3	10.13	3860251	
		4	10.76	2893995	
		5	11.17	1697415	
Aroclor 1016 L5	1.60	1	8.53	936163	MEAN
		2	9.26	1724749	
		3	10.13	3357803	
		4	10.77	2485582	
		5	11.17	1521775	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	8.53	8.48	8.58	1110435	10.2
	2	9.26	9.21	9.31	2178105	16.1
	3	10.13	10.08	10.18	4141579	13.6
	4	10.77	10.72	10.82	3275947	19.9
	5	11.18	11.13	11.23	1741447	8.2

FORM VI PCB-3

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Instrument ID: HP_03A Date(s) Analyzed: 09/24/01 09/24/01

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	12.96	1886330	MEAN
		2	13.59	2889760	
		3	14.84	1870880	
		4	15.42	4192090	
		5	16.24	3118570	
Aroclor 1260 L2	0.20	1	12.95	1840685	MEAN
		2	13.58	2767800	
		3	14.84	1836120	
		4	15.42	4085275	
		5	16.23	3101770	
Aroclor 1260 L3	0.40	1	12.95	1667628	MEAN
		2	13.58	2425170	
		3	14.84	1699630	
		4	15.41	3723775	
		5	16.23	2884038	
Aroclor 1260 L4	0.80	1	12.95	1579726	MEAN
		2	13.57	2245450	
		3	14.83	1634888	
		4	15.41	3590334	
		5	16.22	2790698	
Aroclor 1260 L5	1.60	1	12.95	1414436	MEAN
		2	13.57	2031100	
		3	14.84	1485782	
		4	15.41	3307426	
		5	16.23	2583306	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	12.95	12.90	13.00	1677761	11.5
	2	13.58	13.53	13.63	2471856	14.4
	3	14.84	14.79	14.89	1705460	9.2
	4	15.41	15.36	15.46	3779780	9.6
	5	16.23	16.18	16.28	2895676	7.7

FORM VI PCB-3

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Instrument ID: HP_03B Date(s) Analyzed: 09/24/01 09/24/01

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	8.58	378230	MEAN
		2	9.39	908010	
		3	10.10	1783600	
		4	10.68	728060	
		5	11.28	506610	
Aroclor 1016 L2	0.20	1	8.57	381590	MEAN
		2	9.39	885045	
		3	10.09	1756630	
		4	10.67	786135	
		5	11.28	500295	
Aroclor 1016 L3	0.40	1	8.57	351433	MEAN
		2	9.39	799348	
		3	10.09	1598088	
		4	10.67	697985	
		5	11.28	463578	
Aroclor 1016 L4	0.80	1	8.57	338673	MEAN
		2	9.39	760689	
		3	10.09	1527001	
		4	10.66	714658	
		5	11.27	463071	
Aroclor 1016 L5	1.60	1	8.57	305968	MEAN
		2	9.39	677690	
		3	10.09	1366420	
		4	10.66	654867	
		5	11.28	427731	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	8.57	8.52	8.62	351179	8.8
	2	9.39	9.34	9.44	806156	11.6
	3	10.09	10.04	10.14	1606348	10.7
	4	10.67	10.62	10.72	716341	6.7
	5	11.28	11.23	11.33	472257	6.8

FORM VI PCB-3

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Instrument ID: HP_03B Date(s) Analyzed: 09/24/01 09/24/01

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	13.34	1340070	MEAN
		2	14.09	851120	
		3	15.05	971480	
		4	16.45	1013200	
		5	17.78	692680	
Aroclor 1260 L2	0.20	1	13.33	1268110	MEAN
		2	14.08	798890	
		3	15.04	964305	
		4	16.44	1019395	
		5	17.77	701615	
Aroclor 1260 L3	0.40	1	13.33	1128473	MEAN
		2	14.08	723213	
		3	15.04	905775	
		4	16.44	961653	
		5	17.77	671983	
Aroclor 1260 L4	0.80	1	13.33	1045173	MEAN
		2	14.08	683631	
		3	15.04	897344	
		4	16.44	950219	
		5	17.76	677805	
Aroclor 1260 L5	1.60	1	13.33	926479	MEAN
		2	14.08	604890	
		3	15.04	829953	
		4	16.44	898878	
		5	17.77	654465	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	13.33	13.28	13.38	1141661	14.6
	2	14.08	14.03	14.13	732349	13.2
	3	15.04	14.99	15.09	913771	6.3
	4	16.44	16.39	16.49	968669	5.1
	5	17.77	17.72	17.82	679710	2.7

FORM VI PCB-3

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Instrument ID: HP_03A Date(s) Analyzed: 09/24/01 09/24/01

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

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

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	8.10	650765	SINGLE
		2	8.41	467623	POINT
		3	8.53	1880368	
		4			
		5			
Aroclor 1232	0.40	1	8.41	356380	SINGLE
		2	9.27	1103438	POINT
		3	9.72	632685	
		4	10.56	769655	
		5			
Aroclor 1248	0.40	1	9.72	439523	SINGLE
		2	10.56	1041805	POINT
		3	11.72	1374683	
		4	12.63	632398	
		5	13.98	540818	

FORM VI PCB-3

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Instrument ID: HP_03B Date(s) Analyzed: 09/24/01 09/24/01

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

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

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	8.14	218213	SINGLE
		2	8.45	145188	POINT
		3	8.58	476590	
		4			
		5			
Aroclor 1232	0.40	1	8.44	124438	SINGLE
		2	9.96	185018	POINT
		3	10.77	209180	
		4	11.51	185695	
		5			
Aroclor 1248	0.40	1	9.96	99040	SINGLE
		2	10.40	195923	POINT
		3	12.24	232025	
		4	12.60	226083	
		5	13.46	174003	

FORM VI PCB-3

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 09/24/01 09/24/01

Client Sample No.(PIBLK): PIBLK3B Date Analyzed : 09/26/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0042

Client Sample No.: AR1660L33X Date Analyzed : 09/26/01

Lab Sample ID : 5-293-7 Time Analyzed : 0108

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.53	8.48	8.58	1254373	1110435	13.0
Aroclor 1016 #2	9.26	9.21	9.31	2339883	2178105	7.4
Aroclor 1016 #3	10.14	10.08	10.18	4547175	4141579	9.8
Aroclor 1016 #4	10.77	10.72	10.82	3545620	3275947	8.2
Aroclor 1016 #5	11.18	11.13	11.23	1847348	1741447	6.1
Aroclor 1260 #1	12.96	12.90	13.00	1775610	1677761	5.8
Aroclor 1260 #2	13.58	13.53	13.63	2612480	2471856	5.7
Aroclor 1260 #3	14.84	14.79	14.89	1822228	1705460	6.9
Aroclor 1260 #4	15.42	15.36	15.46	4031978	3779780	6.7
Aroclor 1260 #5	16.23	16.18	16.28	3091215	2895676	6.8

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

FORM VII PCB

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 09/24/01 09/24/01

Client Sample No.(PIBLK): PIBLK3B Date Analyzed : 09/26/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0042

Client Sample No.: AR1660L33X Date Analyzed : 09/26/01

Lab Sample ID : 5-293-7 Time Analyzed : 0108

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.57	8.52	8.62	368028	351179	4.8
Aroclor 1016 #2	9.39	9.34	9.44	835705	806156	3.7
Aroclor 1016 #3	10.10	10.04	10.14	1692145	1606348	5.3
Aroclor 1016 #4	10.67	10.62	10.72	730835	716341	2.0
Aroclor 1016 #5	11.28	11.23	11.33	486580	472257	3.0
Aroclor 1260 #1	13.33	13.28	13.38	1179020	1141661	3.3
Aroclor 1260 #2	14.08	14.03	14.13	761048	732349	3.9
Aroclor 1260 #3	15.04	14.99	15.09	982823	913771	7.6
Aroclor 1260 #4	16.44	16.39	16.49	1006153	968669	3.9
Aroclor 1260 #5	17.77	17.72	17.82	706178	679710	3.9

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

FORM VII PCB

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MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 09/24/01 09/24/01

Client Sample No.(PIBLK): PIBLK3C Date Analyzed : 09/26/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0733

Client Sample No.: AR1660L33Z Date Analyzed : 09/26/01

Lab Sample ID : 5-293-7 Time Analyzed : 0807

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.54	8.48	8.58	1177315	1110435	6.0
Aroclor 1016 #2	9.28	9.21	9.31	2100093	2178105	3.6
Aroclor 1016 #3	10.15	10.08	10.18	3894555	4141579	6.0
Aroclor 1016 #4	10.78	10.72	10.82	2836820	3275947	13.4
Aroclor 1016 #5	11.20	11.13	11.23	1515163	1741447	13.0
Aroclor 1260 #1	12.97	12.90	13.00	1435623	1677761	14.4
Aroclor 1260 #2	13.59	13.53	13.63	2132410	2471856	13.7
Aroclor 1260 #3	14.85	14.79	14.89	1541180	1705460	9.6
Aroclor 1260 #4	15.43	15.36	15.46	3429175	3779780	9.3
Aroclor 1260 #5	16.25	16.18	16.28	2631163	2895676	9.1

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

FORM VII PCB

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MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 09/24/01 09/24/01

Client Sample No.(PIBLK): PIBLK3C Date Analyzed : 09/26/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0733

Client Sample No.: AR1660L33Z Date Analyzed : 09/26/01

Lab Sample ID : 5-293-7 Time Analyzed : 0807

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.58	8.52	8.62	354453	351179	0.9
Aroclor 1016 #2	9.40	9.34	9.44	797830	806156	1.0
Aroclor 1016 #3	10.10	10.04	10.14	1592518	1606348	0.9
Aroclor 1016 #4	10.68	10.62	10.72	676138	716341	5.6
Aroclor 1016 #5	11.29	11.23	11.33	441295	472257	6.6
Aroclor 1260 #1	13.34	13.28	13.38	1023028	1141661	10.4
Aroclor 1260 #2	14.10	14.03	14.13	653845	732349	10.7
Aroclor 1260 #3	15.06	14.99	15.09	836175	913771	8.5
Aroclor 1260 #4	16.46	16.39	16.49	888268	968669	8.3
Aroclor 1260 #5	17.79	17.72	17.82	627690	679710	7.7

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

FORM VII PCB

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MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 09/24/01 09/24/01

Client Sample No.(PIBLK): PIBLK3D Date Analyzed : 09/26/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1458

Client Sample No.: AR1660L33B Date Analyzed : 09/26/01

Lab Sample ID : 5-293-7 Time Analyzed : 1524

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.53	8.48	8.58	1285820	1110435	15.8*
Aroclor 1016 #2	9.26	9.21	9.31	2416700	2178105	11.0
Aroclor 1016 #3	10.14	10.08	10.18	4465070	4141579	7.8
Aroclor 1016 #4	10.77	10.72	10.82	3202440	3275947	2.2
Aroclor 1016 #5	11.18	11.13	11.23	1674068	1741447	3.9
Aroclor 1260 #1	12.96	12.90	13.00	1545420	1677761	7.9
Aroclor 1260 #2	13.58	13.53	13.63	2242000	2471856	9.3
Aroclor 1260 #3	14.84	14.79	14.89	1606268	1705460	5.8
Aroclor 1260 #4	15.42	15.36	15.46	3613255	3779780	4.4
Aroclor 1260 #5	16.23	16.18	16.28	2757813	2895676	4.8

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

FORM VII PCB

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MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 09/24/01 09/24/01

Client Sample No.(PIBLK): PIBLK3D Date Analyzed : 09/26/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1458

Client Sample No.: AR1660L33B Date Analyzed : 09/26/01

Lab Sample ID : 5-293-7 Time Analyzed : 1524

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.57	8.52	8.62	359940	351179	2.5
Aroclor 1016 #2	9.39	9.34	9.44	806798	806156	0.1
Aroclor 1016 #3	10.10	10.04	10.14	1614923	1606348	0.5
Aroclor 1016 #4	10.67	10.62	10.72	721205	716341	0.7
Aroclor 1016 #5	11.28	11.23	11.33	448293	472257	5.1
Aroclor 1260 #1	13.33	13.28	13.38	1019073	1141661	10.7
Aroclor 1260 #2	14.08	14.03	14.13	649993	732349	11.2
Aroclor 1260 #3	15.04	14.99	15.09	824868	913771	9.7
Aroclor 1260 #4	16.44	16.39	16.49	873543	968669	9.8
Aroclor 1260 #5	17.78	17.72	17.82	616638	679710	9.3

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

FORM VII PCB

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 09/24/01 09/24/01

Client Sample No.(PIBLK): PIBLK3E Date Analyzed : 09/26/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 2124

Client Sample No.: AR1660L33D Date Analyzed : 09/26/01

Lab Sample ID : 5-293-7 Time Analyzed : 2150

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.53	8.48	8.58	1240240	1110435	11.7
Aroclor 1016 #2	9.27	9.21	9.31	2145835	2178105	1.5
Aroclor 1016 #3	10.14	10.08	10.18	3912233	4141579	5.5
Aroclor 1016 #4	10.77	10.72	10.82	2812698	3275947	14.1
Aroclor 1016 #5	11.18	11.13	11.23	1428958	1741447	17.9*
Aroclor 1260 #1	12.96	12.90	13.00	1330910	1677761	20.7*
Aroclor 1260 #2	13.59	13.53	13.63	1898020	2471856	23.2*
Aroclor 1260 #3	14.84	14.79	14.89	1392735	1705460	18.3*
Aroclor 1260 #4	15.42	15.36	15.46	3121635	3779780	17.4*
Aroclor 1260 #5	16.24	16.18	16.28	2362595	2895676	18.4*

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

FORM VII PCB

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MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 09/24/01 09/24/01

Client Sample No.(PIBLK): PIBLK3E Date Analyzed : 09/26/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 2124

Client Sample No.: AR1660L33D Date Analyzed : 09/26/01

Lab Sample ID : 5-293-7 Time Analyzed : 2150

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.58	8.52	8.62	329268	351179	6.2
Aroclor 1016 #2	9.39	9.34	9.44	732513	806156	9.1
Aroclor 1016 #3	10.10	10.04	10.14	1454513	1606348	9.4
Aroclor 1016 #4	10.67	10.62	10.72	614223	716341	14.3
Aroclor 1016 #5	11.28	11.23	11.33	395705	472257	16.2*
Aroclor 1260 #1	13.33	13.28	13.38	911995	1141661	20.1*
Aroclor 1260 #2	14.09	14.03	14.13	595043	732349	18.7*
Aroclor 1260 #3	15.05	14.99	15.09	573635	913771	37.2*
Aroclor 1260 #4	16.45	16.39	16.49	772378	968669	20.3*
Aroclor 1260 #5	17.78	17.72	17.82	545108	679710	19.8*

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

FORM VII PCB

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MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 09/24/01 09/24/01

Client Sample No.(PIBLK): PIBLK3E Date Analyzed : 09/26/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 2124

Client Sample No.: AR1660L33E Date Analyzed : 09/26/01

Lab Sample ID : 5-293-7 Time Analyzed : 2215

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.53	8.48	8.58	1368588	1110435	23.2*
Aroclor 1016 #2	9.27	9.21	9.31	2401225	2178105	10.2
Aroclor 1016 #3	10.14	10.08	10.18	4334623	4141579	4.7
Aroclor 1016 #4	10.77	10.72	10.82	3089490	3275947	5.7
Aroclor 1016 #5	11.18	11.13	11.23	1608265	1741447	7.7
Aroclor 1260 #1	12.96	12.90	13.00	1486095	1677761	11.4
Aroclor 1260 #2	13.59	13.53	13.63	2187040	2471856	11.5
Aroclor 1260 #3	14.84	14.79	14.89	1551300	1705460	9.0
Aroclor 1260 #4	15.42	15.36	15.46	3493488	3779780	7.6
Aroclor 1260 #5	16.23	16.18	16.28	2645010	2895676	8.7

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

FORM VII PCB

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MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 09/24/01 09/24/01

Client Sample No.(PIBLK): PIBLK3E Date Analyzed : 09/26/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 2124

Client Sample No.: AR1660L33E Date Analyzed : 09/26/01

Lab Sample ID : 5-293-7 Time Analyzed : 2215

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.58	8.52	8.62	360628	351179	2.7
Aroclor 1016 #2	9.39	9.34	9.44	808170	806156	0.3
Aroclor 1016 #3	10.10	10.04	10.14	1608155	1606348	0.1
Aroclor 1016 #4	10.67	10.62	10.72	715673	716341	0.1
Aroclor 1016 #5	11.28	11.23	11.33	451283	472257	4.4
Aroclor 1260 #1	13.33	13.28	13.38	1010308	1141661	11.5
Aroclor 1260 #2	14.09	14.03	14.13	647090	732349	11.6
Aroclor 1260 #3	15.05	14.99	15.09	849735	913771	7.0
Aroclor 1260 #4	16.44	16.39	16.49	873493	968669	9.8
Aroclor 1260 #5	17.78	17.72	17.82	615215	679710	9.5

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

FORM VII PCB

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SAS No.: SDG No.: E04M3

GC Column: DB-17MS ID: 0.32(mm) Init. Calib. Date(s): 09/24/01

Instrument ID: HP_03A

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	RESC3E	5-171-7	09/24/01	1456	7.36		19.29	
02	AR1221L33Q	5-420-6	09/24/01	1521	7.34		19.25	
03	AR1232L33Q	5-422-6	09/24/01	1547	7.34		19.25	
04	AR1242L13Q	5-11-7	09/24/01	1613	7.33		19.24	
05	AR1242L23Q	5-10-7	09/24/01	1638	7.33		19.24	
06	AR1242L33Q	5-9-7	09/24/01	1704	7.33		19.24	
07	AR1242L43Q	5-8-7	09/24/01	1730	7.33		19.24	
08	AR1242L53Q	5-7-7	09/24/01	1755	7.33		19.24	
09	AR1248L33Q	5-424-6	09/24/01	1821	7.33		19.24	
10	AR1254L13Q	5-6-7	09/24/01	1847	7.33		19.24	
11	AR1254L23Q	5-5-7	09/24/01	1913	7.33		19.24	
12	AR1254L33Q	5-4-7	09/24/01	1938	7.33		19.24	
13	AR1254L43Q	5-3-7	09/24/01	2004	7.33		19.24	
14	AR1254L53Q	5-2-7	09/24/01	2030	7.33		19.25	
15	AR1660L13Q	5-295-7	09/24/01	2055	7.34		19.25	
16	AR1660L23Q	5-294-7	09/24/01	2121	7.33		19.24	
17	AR1660L33Q	5-293-7	09/24/01	2147	7.33		19.24	
18	AR1660L43Q	5-292-7	09/24/01	2212	7.33		19.24	
19	AR1660L53Q	5-291-7	09/24/01	2238	7.33		19.24	
20	PIBLK3X	5-131-7	09/24/01	2304	7.33		19.24	
21	PIBLK3B	5-131-7	09/26/01	0042	7.34		19.25	
22	AR1660L33X	5-293-7	09/26/01	0108	7.33		19.25	
23	PBLKSD	BL0908SD	09/26/01	0250	7.34		19.25	
24	ELCS1	LC0908SD	09/26/01	0341	7.34		19.26	
25	ELCS2	LD0908SD	09/26/01	0407	7.34		19.25	
26	E04M3	47455.01	09/26/01	0433	7.33		19.27	
27	E04M3MS	47455.02MS	09/26/01	0458	7.34		19.28	
28	E04M3MSD	47455.03MSD	09/26/01	0524	7.34		19.27	
29	E04M4	47455.04	09/26/01	0550	7.34		19.28	
30	PIBLK3C	5-131-7	09/26/01	0733	7.34		19.26	
31	AR1660L33Z	5-293-7	09/26/01	0807	7.35		19.28	
32	E04M5	47455.05	09/26/01	0858	7.34		19.26	
33	E04P0	47455.06	09/26/01	0924	7.34		19.27	
34	E04P1	47455.07	09/26/01	0949	7.34		19.27	
35	E04P2	47455.08	09/26/01	1015	7.34		19.25	

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.: 29684 SAS No.: SDG No.: E04M3

GC Column: DB-17MS ID: 0.32(mm) Init. Calib. Date(s): 09/24/01

Instrument ID: HP_03A

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	E04P3	47455.09	09/26/01	1041	7.34	19.27
02	E04P4	47455.10	09/26/01	1107	7.34	19.27
03	E04P5	47455.11	09/26/01	1132	7.34	19.28
04	E04P6	47455.12	09/26/01	1158	7.34	19.27
05	E04P7	47455.13	09/26/01	1224	7.34	19.25
06	PIBLK3D	5-131-7	09/26/01	1458	7.34	19.26
07	AR1660L33B	5-293-7	09/26/01	1524	7.34	19.25
08	E04P8	47455.14	09/26/01	1616	7.34	19.27
09	E04P9	47455.15	09/26/01	1641	7.34	19.27
10	E04Q0	47455.16	09/26/01	1707	7.34	19.28
11	E04Q1	47455.17	09/26/01	1733	7.34	19.29
12	E04Q2	47455.18	09/26/01	1758	7.34	19.29
13	E04Q3	47455.19	09/26/01	1824	7.34	19.26
14	E04Q4	47455.20	09/26/01	1850	7.34	19.28
15	E04Q5	47455.21	09/26/01	1916	7.34	19.26
16	E04Q6	47455.22	09/26/01	1941	7.34	19.27
17	PIBLK3E	5-131-7	09/26/01	2124	7.34	19.27
18	AR1660L33D	5-293-7	09/26/01	2150	7.34	19.26
19	AR1660L33E	5-293-7	09/26/01	2215	7.34	19.26
20						
21						
22						
23						
24						
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26						
27						
28						
29						
30						
31						
32						
33						
34						
35						

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

FORM VIII PCB

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SAS No.: SDG No.: E04M3

GC Column: DB-XLB ID: 0.32(mm) Init. Calib. Date(s): 09/24/01

Instrument ID: HP_03B

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	RESC3E	5-171-7	09/24/01	1456	7.24	20.38
02	AR1221L33Q	5-420-6	09/24/01	1521	7.23	20.36
03	AR1232L33Q	5-422-6	09/24/01	1547	7.23	20.35
04	AR1242L13Q	5-11-7	09/24/01	1613	7.22	20.34
05	AR1242L23Q	5-10-7	09/24/01	1638	7.22	20.34
06	AR1242L33Q	5-9-7	09/24/01	1704	7.22	20.34
07	AR1242L43Q	5-8-7	09/24/01	1730	7.22	20.34
08	AR1242L53Q	5-7-7	09/24/01	1755	7.22	20.34
09	AR1248L33Q	5-424-6	09/24/01	1821	7.22	20.34
10	AR1254L13Q	5-6-7	09/24/01	1847	7.22	20.35
11	AR1254L23Q	5-5-7	09/24/01	1913	7.22	20.34
12	AR1254L33Q	5-4-7	09/24/01	1938	7.22	20.34
13	AR1254L43Q	5-3-7	09/24/01	2004	7.22	20.34
14	AR1254L53Q	5-2-7	09/24/01	2030	7.22	20.35
15	AR1660L13Q	5-295-7	09/24/01	2055	7.23	20.35
16	AR1660L23Q	5-294-7	09/24/01	2121	7.22	20.35
17	AR1660L33Q	5-293-7	09/24/01	2147	7.22	20.34
18	AR1660L43Q	5-292-7	09/24/01	2212	7.22	20.34
19	AR1660L53Q	5-291-7	09/24/01	2238	7.22	20.34
20	PIBLK3X	5-131-7	09/24/01	2304	7.22	20.35
21	PIBLK3B	5-131-7	09/26/01	0042	7.22	20.35
22	AR1660L33X	5-293-7	09/26/01	0108	7.22	20.35
23	PBLKSD	BL0908SD	09/26/01	0250	7.23	20.35
24	ELCS1	LC0908SD	09/26/01	0341	7.23	20.36
25	ELCS2	LD0908SD	09/26/01	0407	7.23	20.35
26	E04M3	47455.01	09/26/01	0433	7.22	20.37
27	E04M3MS	47455.02MS	09/26/01	0458	7.23	20.38
28	E04M3MSD	47455.03MSD	09/26/01	0524	7.23	20.37
29	E04M4	47455.04	09/26/01	0550	7.23	20.38
30	PIBLK3C	5-131-7	09/26/01	0733	7.23	20.36
31	AR1660L33Z	5-293-7	09/26/01	0807	7.23	20.38
32	E04M5	47455.05	09/26/01	0858	7.23	20.36
33	E04P0	47455.06	09/26/01	0924	7.23	20.37
34	E04P1	47455.07	09/26/01	0949	7.23	20.37
35	E04P2	47455.08	09/26/01	1015	7.23	20.35

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

JL 93

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SAS No.: SDG No.: E04M3

GC Column: DB-XLB ID: 0.32(mm) Init. Calib. Date(s): 09/24/01

Instrument ID: HP_03B

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	E04P3	47455.09	09/26/01	1041	7.23	20.37
02	E04P4	47455.10	09/26/01	1107	7.23	20.37
03	E04P5	47455.11	09/26/01	1132	7.23	20.38
04	E04P6	47455.12	09/26/01	1158	7.23	20.37
05	E04P7	47455.13	09/26/01	1224	7.23	20.35
06	PIBLK3D	5-131-7	09/26/01	1458	7.23	20.36
07	AR1660L33B	5-293-7	09/26/01	1524	7.23	20.35
08	E04P8	47455.14	09/26/01	1616	7.23	20.37
09	E04P9	47455.15	09/26/01	1641	7.23	20.37
10	E04Q0	47455.16	09/26/01	1707	7.23	20.38
11	E04Q1	47455.17	09/26/01	1733	7.23	20.39
12	E04Q2	47455.18	09/26/01	1758	7.23	20.39
13	E04Q3	47455.19	09/26/01	1824	7.23	20.36
14	E04Q4	47455.20	09/26/01	1850	7.23	20.38
15	E04Q5	47455.21	09/26/01	1916	7.23	20.36
16	E04Q6	47455.22	09/26/01	1941	7.23	20.36
17	PIBLK3E	5-131-7	09/26/01	2124	7.23	20.36
18	AR1660L33D	5-293-7	09/26/01	2150	7.23	20.36
19	AR1660L33E	5-293-7	09/26/01	2215	7.23	20.36
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Lab Sample ID: LC0908SD Date(s) Analyzed: 09/26/01 09/26/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.72	10.67	10.77	97.5		
Aroclor-1254	2	11.87	11.81	11.91	107		
	3	12.18	12.13	12.23	112		
COLUMN 1	4	12.96	12.91	13.01	110		
	5	14.19	14.14	14.24	112	110	
	1	10.68	10.62	10.72	97.0		
	2	12.10	12.05	12.15	106		
	3	13.04	12.98	13.08	104		
COLUMN 2	4	13.46	13.41	13.51	109		
	5	14.26	14.20	14.30	110	110	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

FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Lab Sample ID: LD0908SD Date(s) Analyzed: 09/26/01 09/26/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.72	10.67	10.77	94.4		
Aroclor-1254	2	11.87	11.81	11.91	101		
	3	12.18	12.13	12.23	105		
COLUMN 1	4	12.96	12.91	13.01	105		
	5	14.19	14.14	14.24	102	100	
	1	10.68	10.62	10.72	92.2		
	2	12.10	12.05	12.15	97.8		
	3	13.03	12.98	13.08	101		
COLUMN 2	4	13.46	13.41	13.51	100		
	5	14.26	14.20	14.30	102	99	1.0
	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

FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E04M3MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Lab Sample ID: 47455.02MS Date(s) Analyzed: 09/26/01 09/26/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.72	10.67	10.77	188		
Aroclor-1254	2	11.86	11.81	11.91	193		
	3	12.18	12.13	12.23	125		
COLUMN 1	4	12.96	12.91	13.01	179		
	5	14.19	14.14	14.24	204	180	
	1	10.67	10.62	10.72	261		
	2	12.10	12.05	12.15	233		
	3	13.05	12.98	13.08	196		
COLUMN 2	4	13.46	13.41	13.51	210		
	5	14.25	14.20	14.30	236	230	27.8
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E04M3MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Lab Sample ID: 47455.03MSD Date(s) Analyzed: 09/26/01 09/26/01

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

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

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.72	10.67	10.77	156		
Aroclor-1254	2	11.86	11.81	11.91	159		
	3	12.18	12.13	12.23	106		
COLUMN 1	4	12.95	12.91	13.01	146		
	5	14.19	14.14	14.24	170	150	
	1	10.67	10.62	10.72	217		
	2	12.10	12.05	12.15	195		
	3	13.04	12.98	13.08	161		
COLUMN 2	4	13.46	13.41	13.51	182		
	5	14.25	14.20	14.30	206	190	26.7
	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

Response Factor Report HP_03

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Tue Sep 25 09:10:37 2001
Response via : Initial Calibration

Calibration Files
L1 =3_092419.D L2 =3_092420.D L3 =3_092421.D
L4 =3_092422.D L5 =3_092423.D

	Compound	L1	L2	L3	L4	L5	Avg		%RSD
1)	TCX	49.6	49.3	46.2	45.2	41.9	46.4	E3	6.87
2)	Aroclor-1016	1.2	1.2	1.1	1.1	0.9	1.1	E3	10.20
3)	Aroclor-1016 {2}	2.6	2.5	2.1	2.0	1.7	2.2	E3	16.10
4)	Aroclor-1016 {3}	4.8	4.6	4.2	3.9	3.4	4.1	E3	13.61
5)	Aroclor-1016 {4}	4.2	3.7	3.2	2.9	2.5	3.3	E3	19.92
6)	Aroclor-1016 {5}	1.9	1.8	1.8	1.7	1.5	1.7	E3	8.16
7)	Aroclor-1242	1.2	1.1	1.2	1.0	0.9	1.1	E3	13.05
8)	Aroclor-1242 {2}	2.2	2.1	2.1	1.7	1.6	1.9	E3	14.13
9)	Aroclor-1242 {3}	4.3	3.9	4.0	3.3	3.1	3.7	E3	13.44
10)	Aroclor-1242 {4}	1.6	1.6	1.7	1.4	1.4	1.5	E3	8.34
11)	Aroclor-1242 {5}	939.3	959.8	1164.5	1040.3	1036.5	1028.1		8.61
12)	Aroclor-1254	2.0	2.1	2.1	1.8	1.6	1.9	E3	12.13
13)	Aroclor-1254 {2}	3.7	3.7	3.7	3.2	2.9	3.4	E3	10.87
14)	Aroclor-1254 {3}	3.4	3.4	3.3	2.9	2.6	3.1	E3	10.53
15)	Aroclor-1254 {4}	3.5	3.6	3.5	3.2	3.0	3.3	E3	8.12
16)	Aroclor-1254 {5}	2.6	2.8	2.8	2.5	2.4	2.6	E3	6.32
17)	Aroclor-1260	1.9	1.8	1.7	1.6	1.4	1.7	E3	11.51
18)	Aroclor-1260 {2}	2.9	2.8	2.4	2.2	2.0	2.5	E3	14.44
19)	Aroclor-1260 {3}	1.9	1.8	1.7	1.6	1.5	1.7	E3	9.16
20)	Aroclor-1260 {4}	4.2	4.1	3.7	3.6	3.3	3.8	E3	9.59
21)	Aroclor-1260 {5}	3.1	3.1	2.9	2.8	2.6	2.9	E3	7.74
22)	DCB	49.7	49.1	44.9	43.2	39.4	45.3	E3	9.45
	Average %RSD								11.01

Signal #2 Calibration Files
L1 =3_092419.D L2 =3_092420.D L3 =3_092421.D
L4 =3_092422.D L5 =3_092423.D

	Compound	L1	L2	L3	L4	L5	Avg		%RSD
24)	TCX #2	14.9	15.0	14.5	14.6	14.2	14.6	E3	2.28
25)	Aroclor-1016 #2	378.2	381.6	351.4	338.7	306.0	351.2		8.84
26)	Aroclor-1016 {2} #2	908.0	885.0	799.3	760.7	677.7	806.2		11.64
27)	Aroclor-1016 {3} #2	1.8	1.8	1.6	1.5	1.4	1.6	E3	10.69
28)	Aroclor-1016 {4} #2	728.1	786.1	698.0	714.7	654.9	716.3		6.67
29)	Aroclor-1016 {5} #2	506.6	500.3	463.6	463.1	427.7	472.3		6.79
30)	Aroclor-1242 #2	337.4	332.9	365.1	312.6	296.7	328.9		7.90
31)	Aroclor-1242 {2} #2	764.8	729.4	786.9	662.9	620.1	712.8		9.81
32)	Aroclor-1242 {3} #2	1.5	1.4	1.5	1.3	1.2	1.4	E3	9.42
33)	Aroclor-1242 {4} #2	436.1	427.1	487.8	425.6	420.1	439.3		6.30
34)	Aroclor-1242 {5} #2	382.1	370.3	429.2	379.5	399.4	392.1		5.93
35)	Aroclor-1254 #2	519.0	514.3	509.0	461.0	420.8	484.8		8.80
36)	Aroclor-1254 {2} #2	1.2	1.2	1.1	1.0	0.9	1.1	E3	9.91
37)	Aroclor-1254 {3} #2	1.5	1.5	1.6	1.4	1.2	1.4	E3	10.37
38)	Aroclor-1254 {4} #2	803.0	800.0	807.2	731.3	682.0	764.7		7.30

99

(#) = Out of Range

Response Factor Report HP_03

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Tue Sep 25 09:10:37 2001
Response via : Initial Calibration

Calibration Files
L1 =3_092419.D L2 =3_092420.D L3 =3_092421.D
L4 =3_092422.D L5 =3_092423.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
39) Aroclor-1254 {5} #2	993.6	1024.4	1069.5	999.8	958.0	1009.1	4.09
40) Aroclor-1260 #2	1.3	1.3	1.1	1.0	0.9	1.1 E3	14.60
41) Aroclor-1260 {2} #2	851.1	798.9	723.2	683.6	604.9	732.3	13.17
42) Aroclor-1260 {3} #2	971.5	964.3	905.8	897.3	830.0	913.8	6.30
43) Aroclor-1260 {4} #2	1.0	1.0	1.0	1.0	0.9	1.0 E3	5.11
44) Aroclor-1260 {5} #2	692.7	701.6	672.0	677.8	654.5	679.7	2.70
45) DCB #2	23.4	23.1	21.4	20.9	19.4	21.7 E3	7.64
Average %RSD							8.01

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29653 SDG E0395
Signature S Zaskett
Date 9/27/01

100

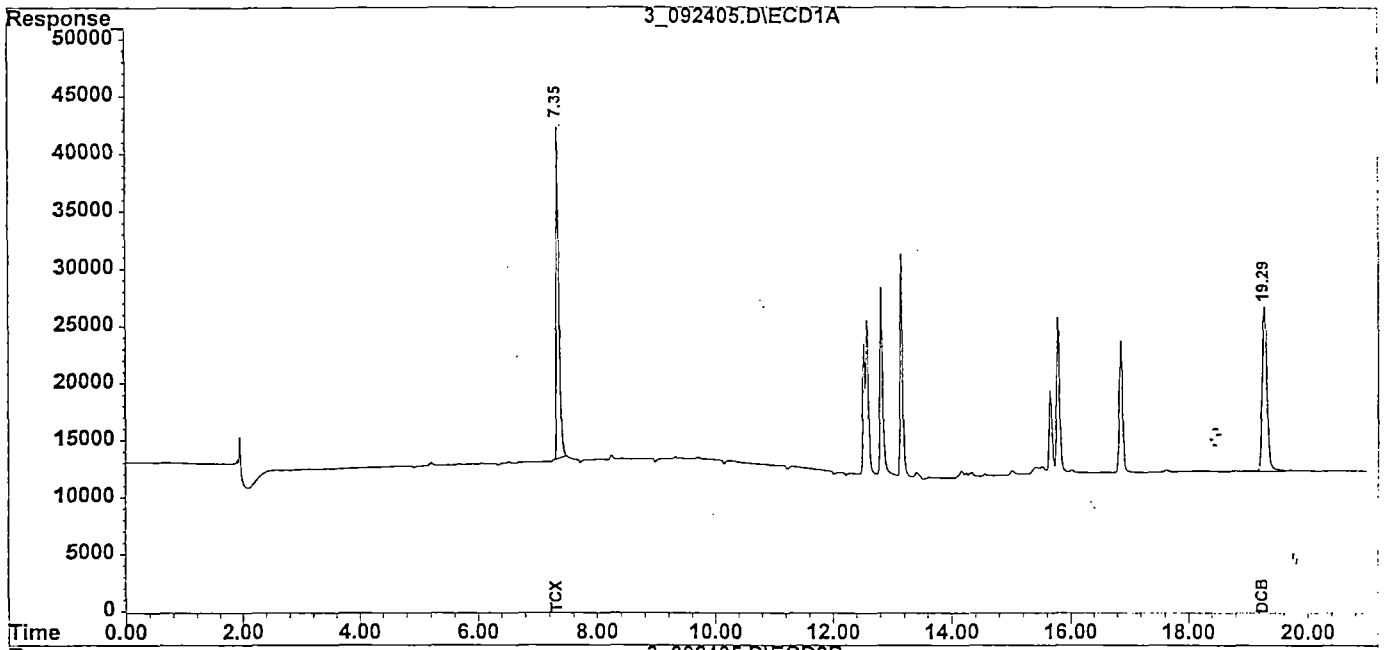
(#) = Out of Range

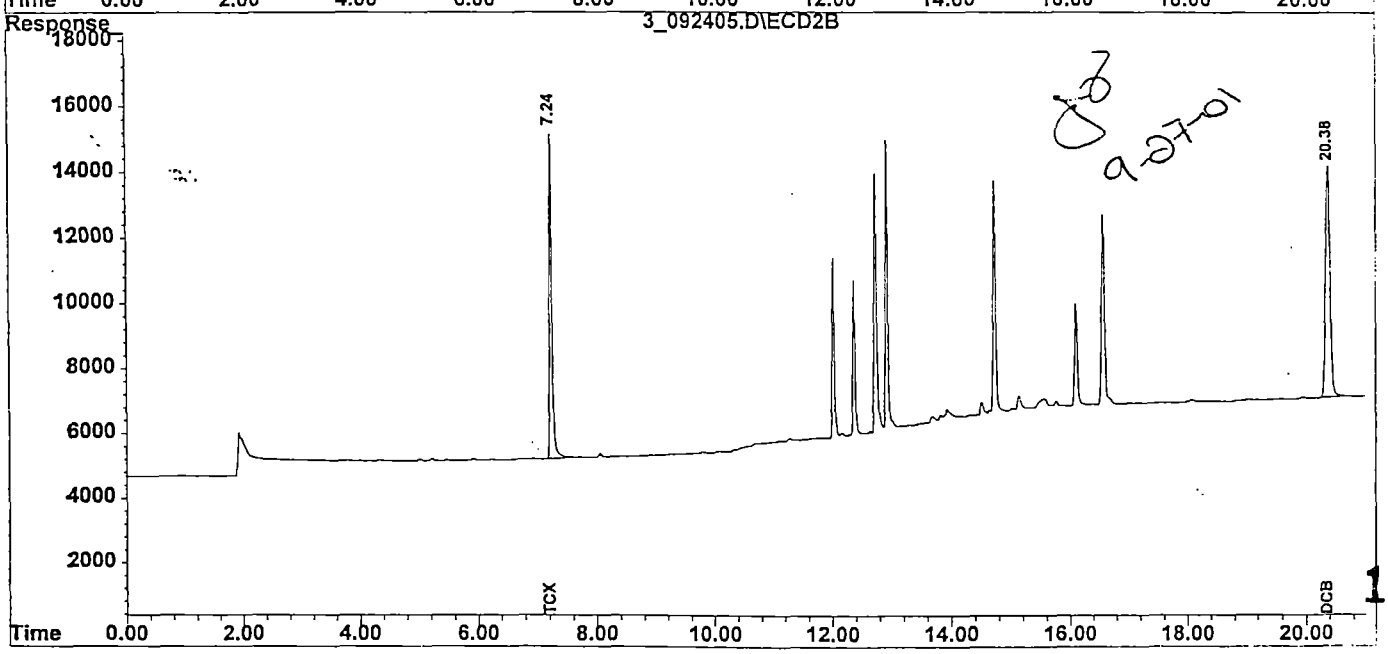
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092405.D\ECD1A.CH Vial: 77
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092405.D\ECD2B.CH
Acq On : 24 Sep 2001 14:56 Operator: BTB
Sample : RESC3E Inst : HP_03
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:32 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092405.D\ECD1A.CH Vial: 77
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092405.D\ECD2B.CH
Acq On : 24 Sep 2001 14:56 Operator: BTB
Sample : RESC3E Inst : HP_03
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:32 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Tue Sep 25 09:10:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.36f	7.24f	905899	288377	16.7	17.8
22)	S DCB	19.29f	20.38f	756780	377604	13.5m BTB 092501	15.4
	Target Compounds:						

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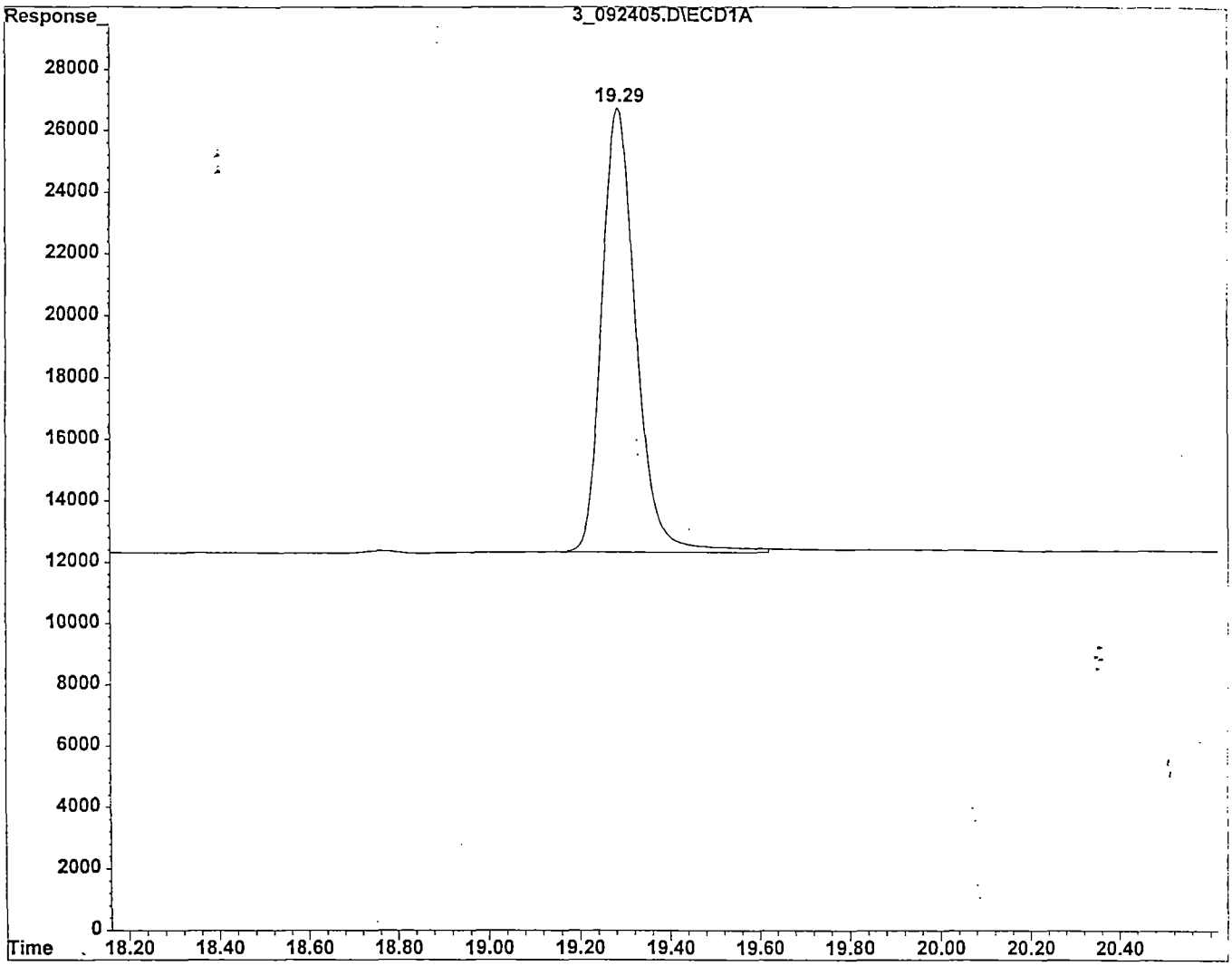
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_24_01\3_092405.D
Date Acquired: 24 Sep 2001 14:56
Inst: HP_03 Operator ID: BTB
Name: RESC3E
Misc: 5-171-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:32 2001 Quant Results File: XPCBI24.RES



DCB 19.29min area: 756780 m BTB092501

Integration Time Range: 19.16 - 19.62

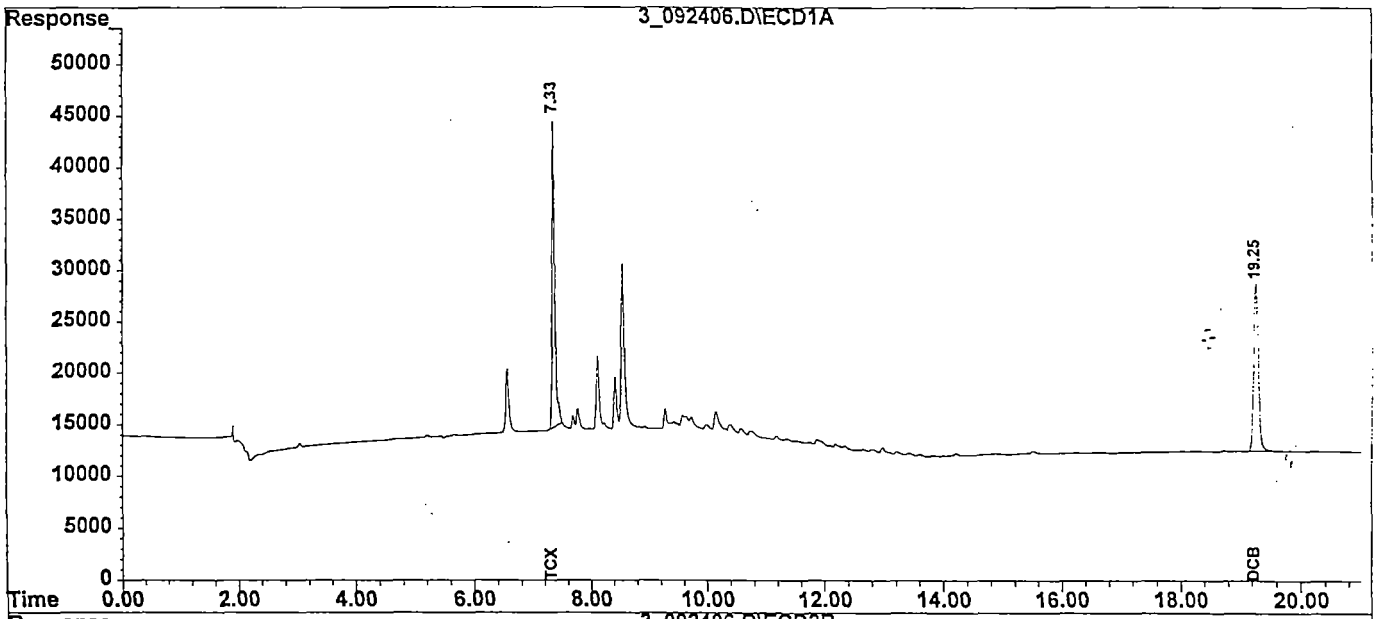
F:\HPCHEM\HP\3\DATA\09_24_01\3_092405.D
Report generated: Tue Sep 25 09:15:39 2001

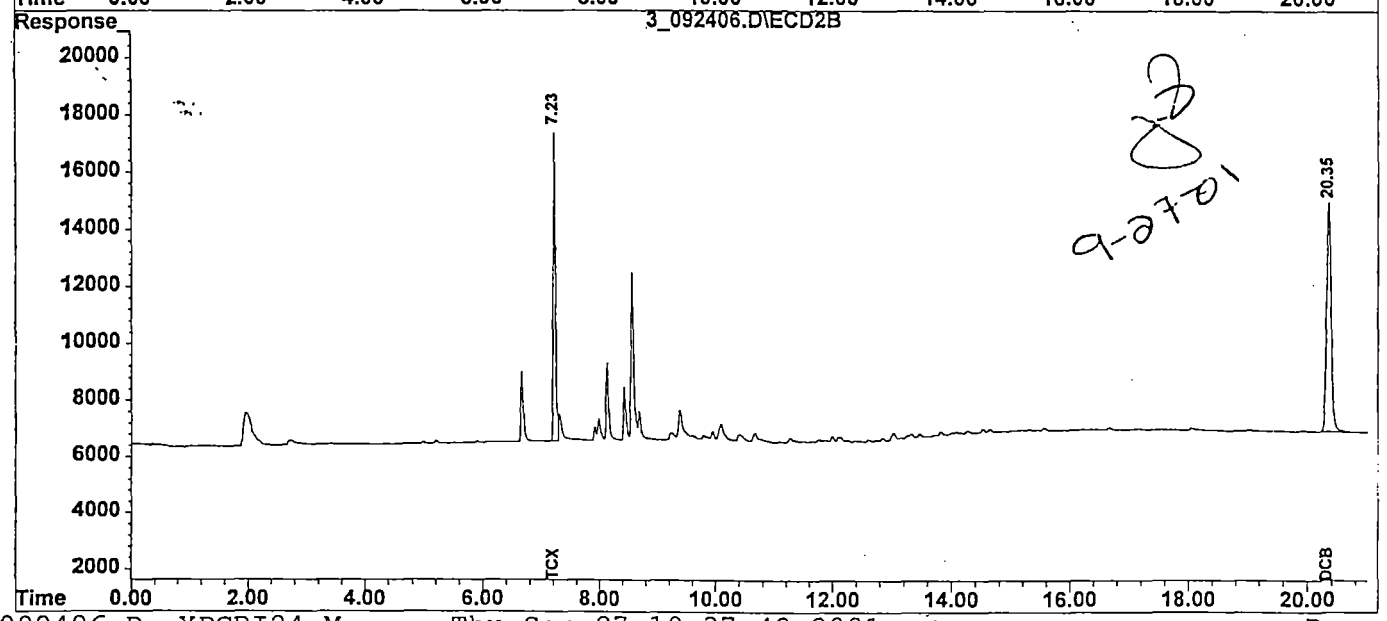
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092406.D\ECD1A.CH Vial: 78
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092406.D\ECD2B.CH
Acq On : 24 Sep 2001 15:21 Operator: BTB
Sample : AR1221L33Q Inst : HP_03
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 9:24 2001 Quant Results File: XPCBI24.RES
Quant Time: Sep 27 19:35 2001 Quant Results File: xspcbi24.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001

Multi-Component Method : f:\hpchem\hp\3\data\09_24_01\xspcbi24.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_03A Signal #2 Inst : HP_03B





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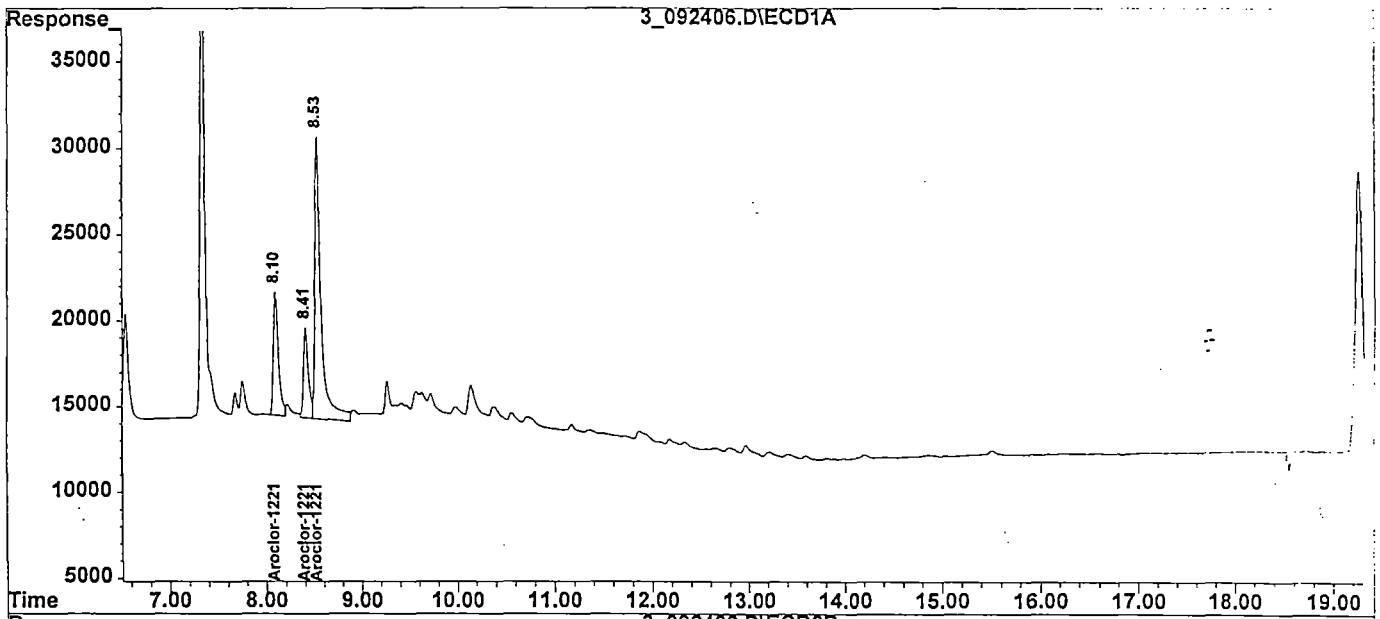
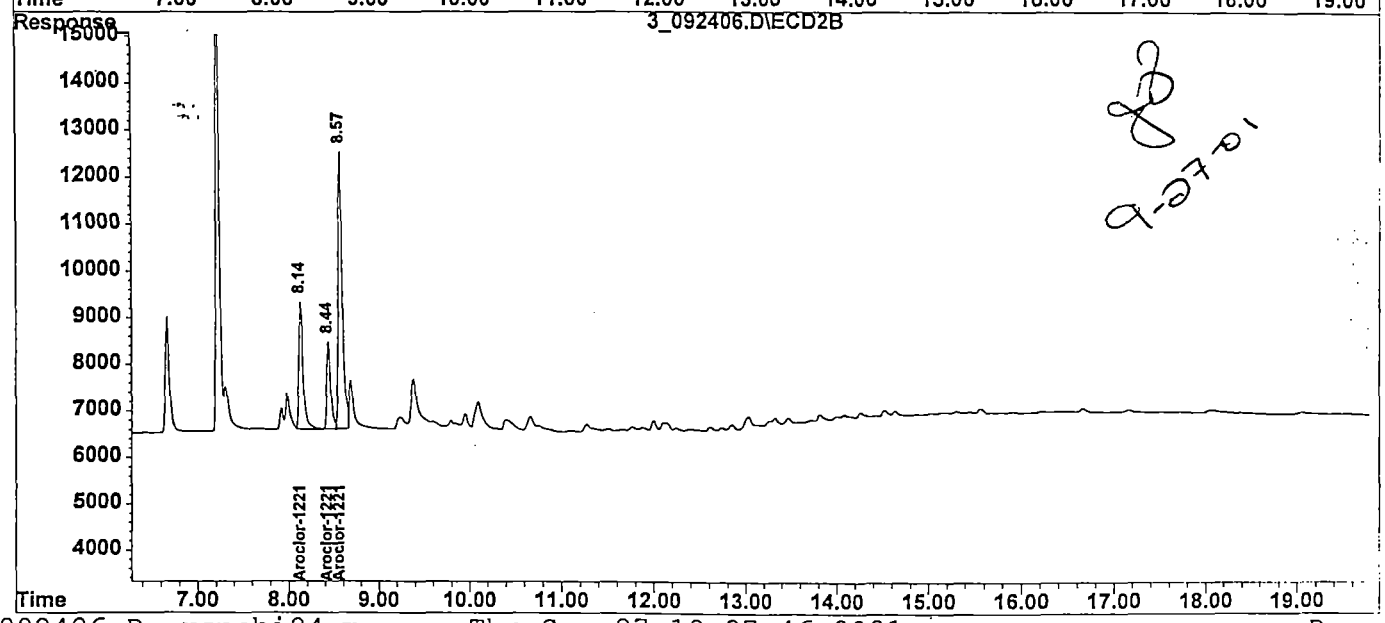
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092406.D\ECD1A.CH Vial: 78
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092406.D\ECD2B.CH
Acq On : 24 Sep 2001 15:21 Operator: BTB
Sample : AR1221L33Q Inst : HP_03
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 19:35 2001 Quant Results File: xspcbi24.RES
Quant Time: Sep 27 19:35 2001 Quant Results File: xspcbi24.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001

Multi-Component Method : f:\hpchem\hp\3\data\09_24_01\xspcbi24.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_03A Signal #2 Inst : HP_03B





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092406.D\ECD1A.CH Vial: 78
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092406.D\ECD2B.CH
Acq On : 24 Sep 2001 15:21 Operator: BTB
Sample : AR1221L33Q Inst : HP_03
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 9:24 2001 Quant Results File: XPCBI24.RES
Multi Time: Sep 27 19:35 2001 Quant Results File: xspcbi24.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001

Multi-Component Method : f:\hpchem\hp\3\data\09_24_01\xspcbi24.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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	969443	290198	17.9	17.9
22)	S DCB	19.25	20.36	851273	429175	15.1	17.5
	Target Compounds:						
	Multi-Component Compounds:						
2)	L2 Aroclor-1221	8.10	8.14	260306	87285	648.3	522.8
3)	L2 Aroclor-1221 {2}	8.41	8.45	187049	58075	674.3	527.3
4)	L2 Aroclor-1221 {3}	8.53	8.58	752147	190636	662.9	513.5
	Sum Aroclor-1221			1199502	335996	1985.5	1563.6
	Average Aroclor-1221					661.821	521.192

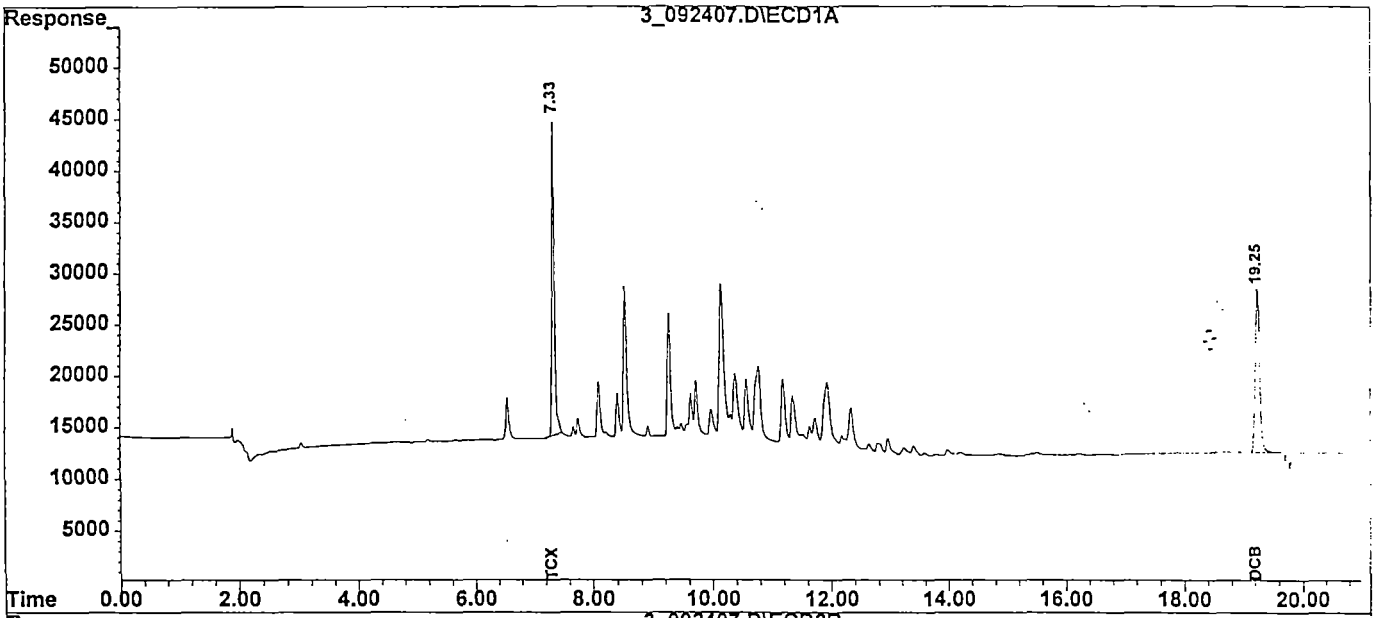
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
3_092406.D xspcbi24.m Thu Sep 27 19:37:39 2001 Page 1

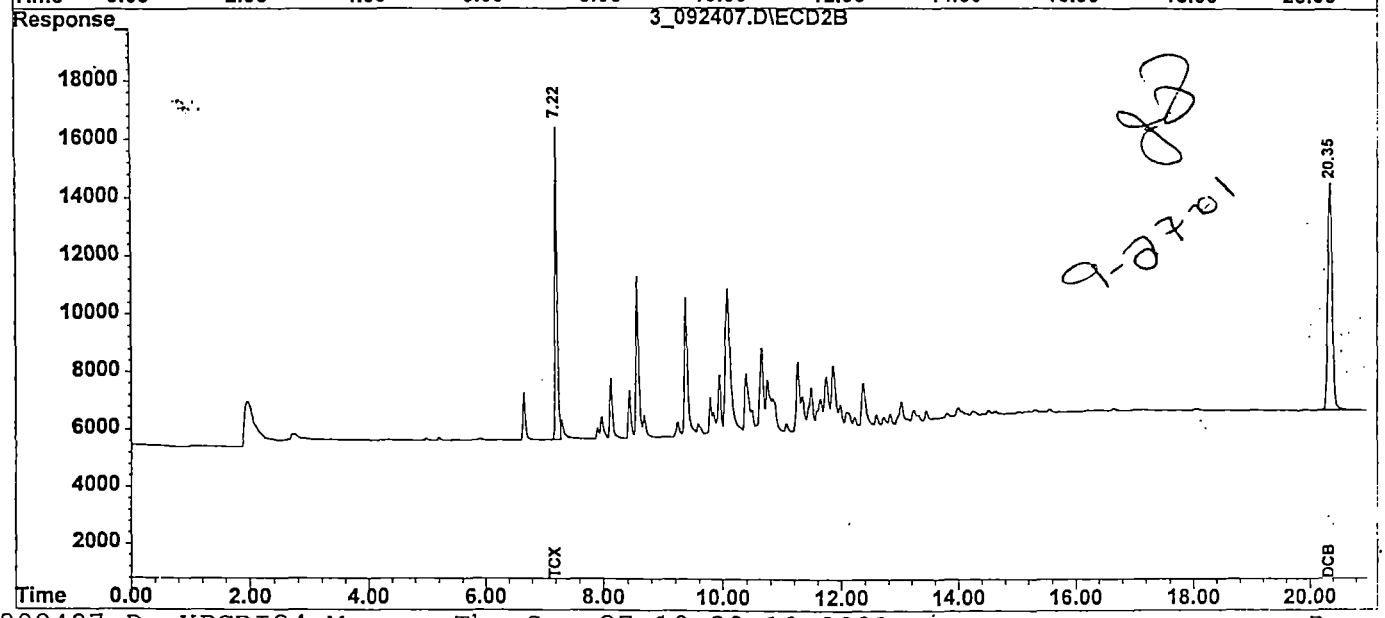
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092407.D\ECD1A.CH Vial: 79
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092407.D\ECD2B.CH
Acq On : 24 Sep 2001 15:47 Operator: BTB
Sample : AR1232L33Q Inst : HP_03
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 9:24 2001 Quant Results File: XPCBI24.RES
Quant Time: Sep 27 19:35 2001 Quant Results File: xspcbi24.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001

Multi-Component Method : f:\hpchem\hp\3\data\09_24_01\xspcbi24.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_03A Signal #2 Inst : HP_03B





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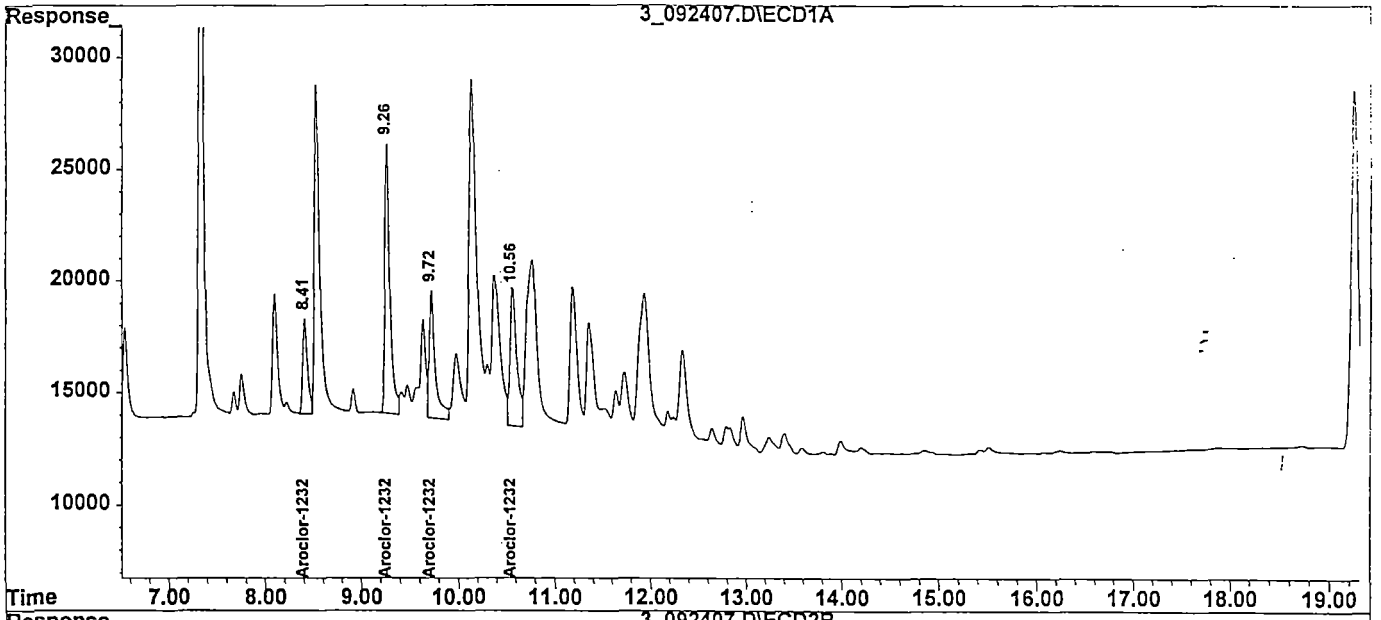
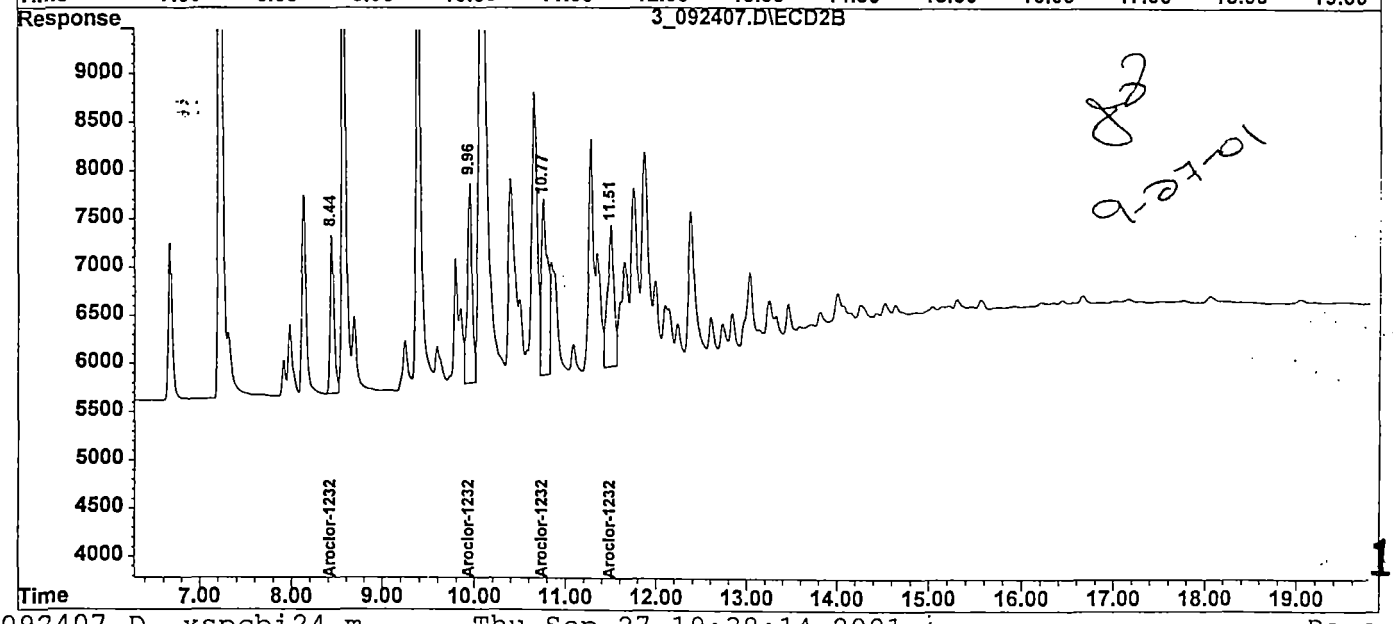
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092407.D\ECD1A.CH Vial: 79
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092407.D\ECD2B.CH
Acq On : 24 Sep 2001 15:47 Operator: BTB
Sample : AR1232L33Q Inst : HP_03
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 19:35 2001 Quant Results File: xspcbi24.RES
Quant Time: Sep 27 19:35 2001 Quant Results File: xspcbi24.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001

Multi-Component Method : f:\hpchem\hp\3\data\09_24_01\xspcbi24.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_03A Signal #2 Inst : HP_03B





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9-27-01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092407.D\ECD1A.CH Vial: 79
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092407.D\ECD2B.CH
Acq On : 24 Sep 2001 15:47 Operator: BTB
Sample : AR1232L33Q Inst : HP_03
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 9:24 2001 Quant Results File: XPCBI24.RES
Multi Time: Sep 27 19:35 2001 Quant Results File: xspcbi24.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001

Multi-Component Method : f:\hpchem\hp\3\data\09_24_01\xspcbi24.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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.34	7.23	956418	291046	17.6	18.0	
22)	S DCB	19.25	20.35	816847	413771	14.5	16.9	
	Target Compounds:							
	Multi-Component Compounds:							
5)	L3 Aroclor-1232	8.41	8.44	142552	49775	655.6	591.5	
6)	L3 Aroclor-1232 {2}	9.27	9.96	441375	74007	598.7	561.9	
7)	L3 Aroclor-1232 {3}	9.72	10.77	253074	83672	775.3	513.7	#
8)	L3 Aroclor-1232 {4}	10.56	11.51	307862	74278	783.8	533.2	#
	Sum Aroclor-1232			1144863	281733	2813.4	2200.4	
	Average Aroclor-1232					703.340	550.088	

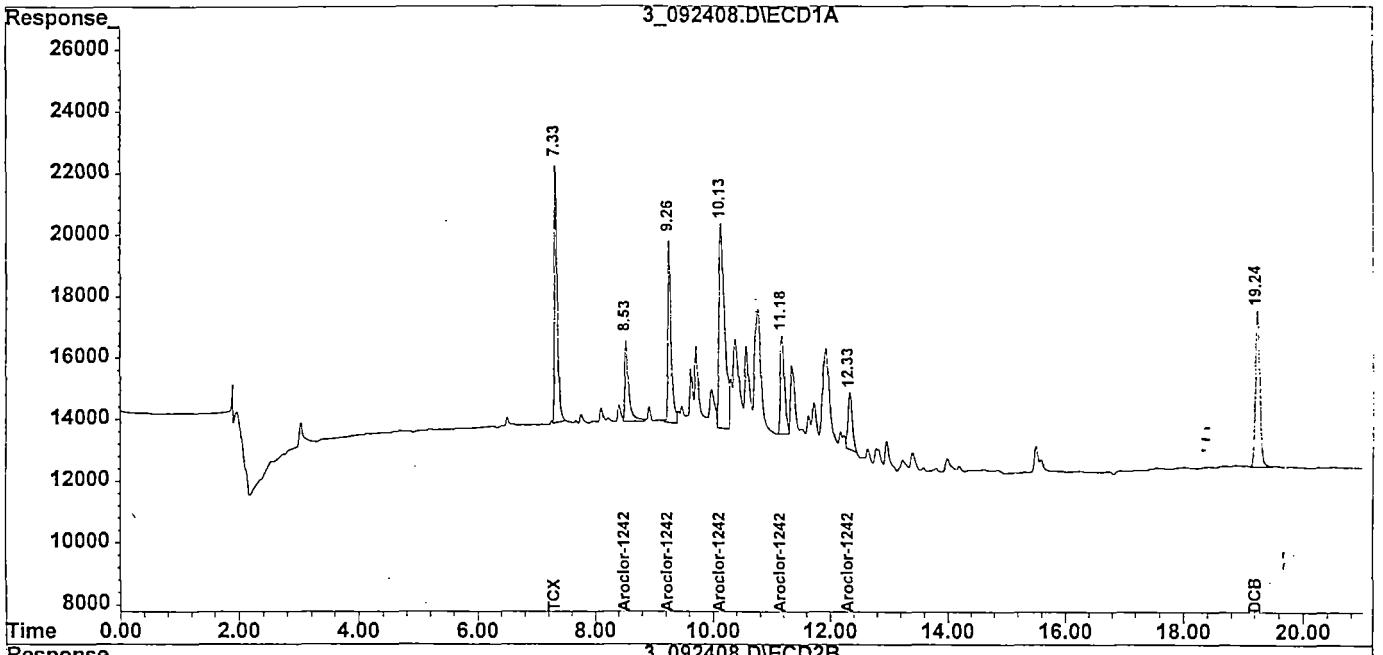
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
3_092407.D xspcbi24.m Thu Sep 27 19:38:07 2001 Page 1

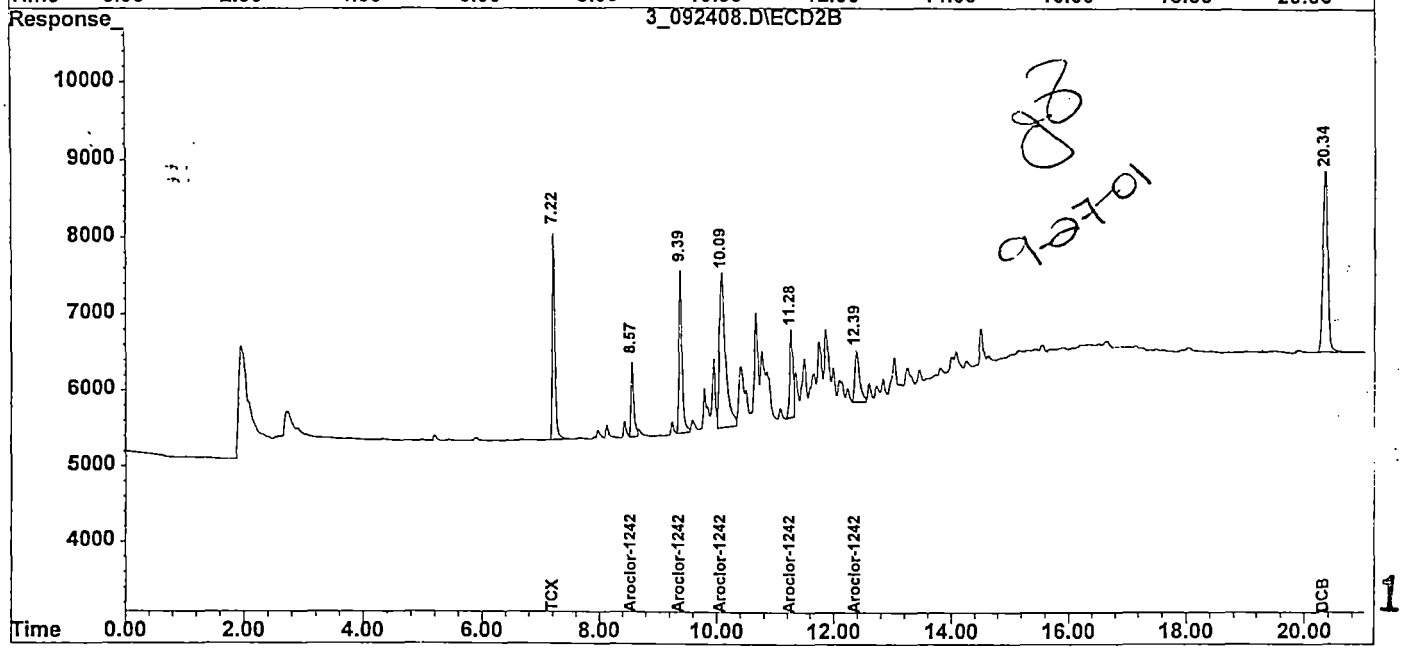
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092408.D\ECD1A.CH Vial: 80
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092408.D\ECD2B.CH
Acq On : 24 Sep 2001 16:13 Operator: BTB
Sample : AR1242L13Q Inst : HP_03
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:36 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B





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9-27-01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092408.D\ECD1A.CH Vial: 80
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092408.D\ECD2B.CH
Acq On : 24 Sep 2001 16:13 Operator: BTB
Sample : AR1242L13Q Inst : HP_03
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:36 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

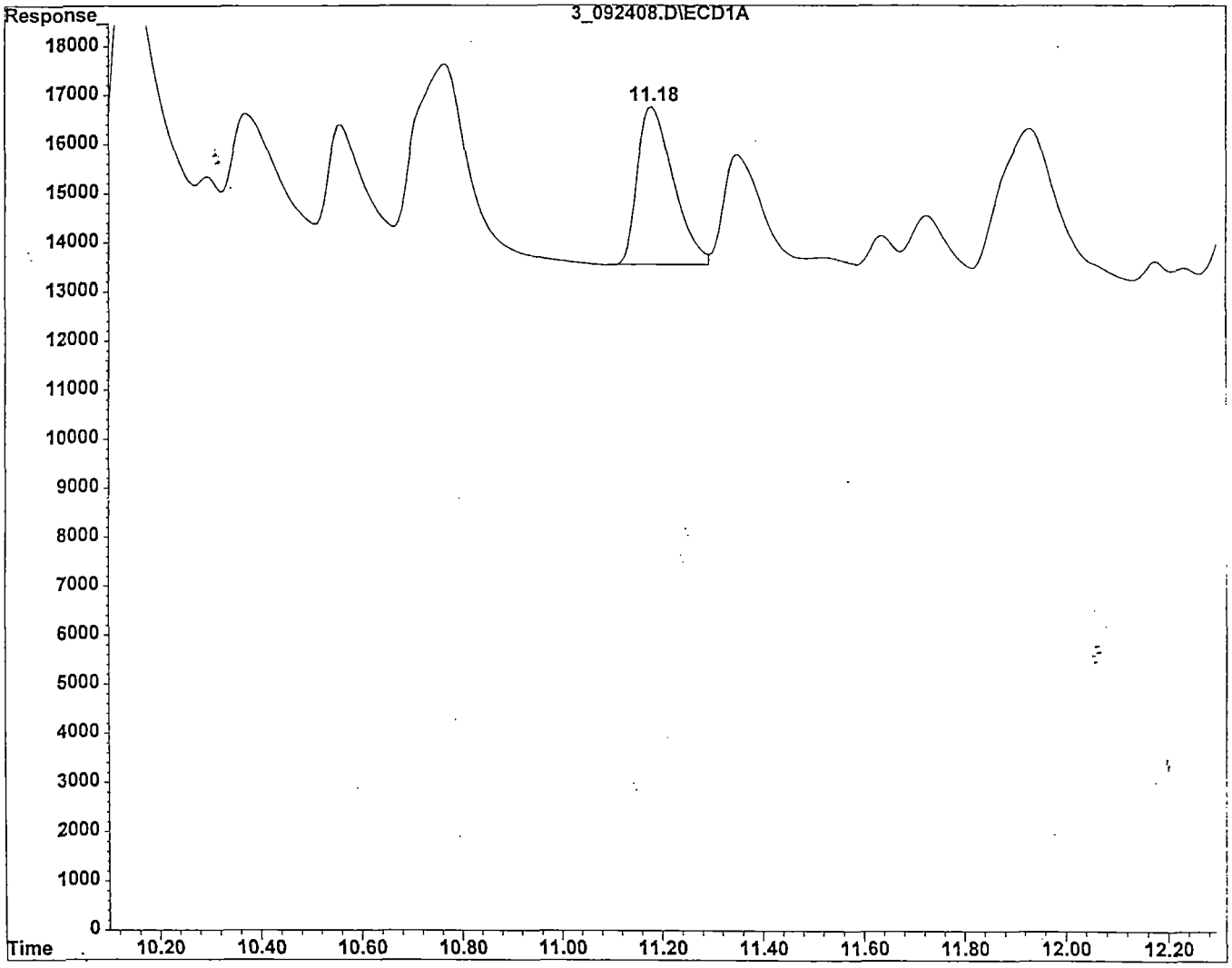
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	279635	83875	5.158	5.175
22)	S DCB	19.24	20.34	254410	123656	4.522	5.046
	Target Compounds:						
7)	L4 Aroclor-1242	8.53	8.57	120639	33737	106.6	106.7
8)	L4 Aroclor-1242 {2}	9.26	9.39	224806	76479	114.0	111.4
9)	L4 Aroclor-1242 {3}	10.14	10.09	428427	146591	117.8	110.8
10)	L4 Aroclor-1242 {4}	11.18	11.28	157412	43611	98.6m BTB	100.8
11)	L4 Aroclor-1242 {5}	12.33	12.39	93933	38212	75.5 092501	99.5m # BTB
	Sum Aroclor-1242			1025217	338630	512.4	529.1 092501
	Average Aroclor-1242					102.482	105.828

(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\3\DATA\09_24_01\3_092408.D
Date Acquired: 24 Sep 2001 16:13
Inst: HP_03 Operator ID: BTB
Name: AR1242L13Q
Misc: 5-11-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:36 2001 Quant Results File: XPCBI24.RES



Aroclor-1242 {4} 11.18min area: 157412 m

Integration Time Range: 11.10 - 11.30

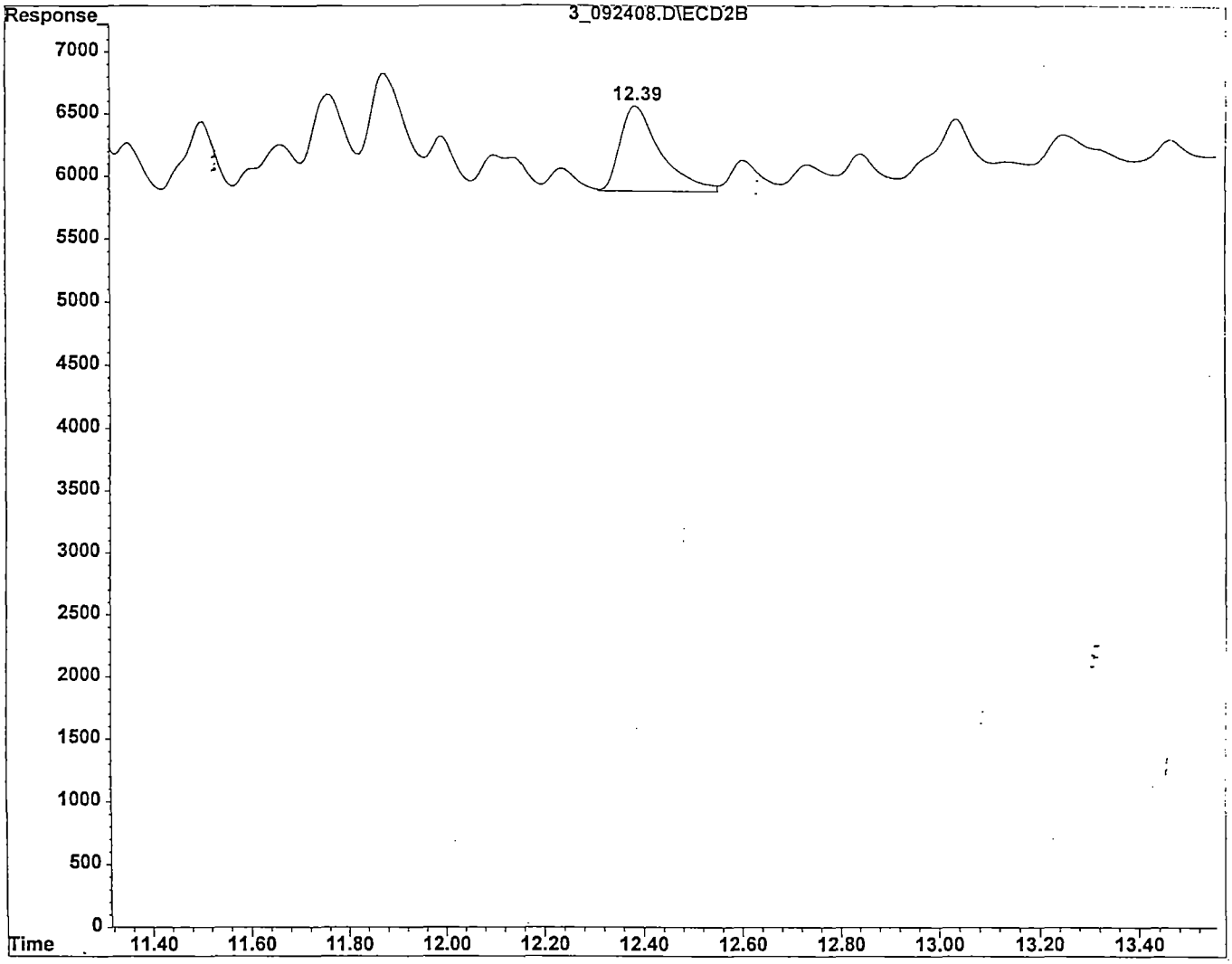
BTB
09/25/01

112

F:\HPCHEM\HP\3\DATA\09_24_01\3_092408.D
Report generated: Tue Sep 25 09:15:44 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_24_01\3_092408.D
Date Acquired: 24 Sep 2001 16:13
Inst: HP_03 Operator ID: BTB
Name: AR1242L13Q
Misc: 5-11-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:36 2001 Quant Results File: XPCBI24.RES



Aroclor-1242 {5} #2 12.39min area: 38212 m

Integration Time Range: 12.32 - 12.56

BTB
092501

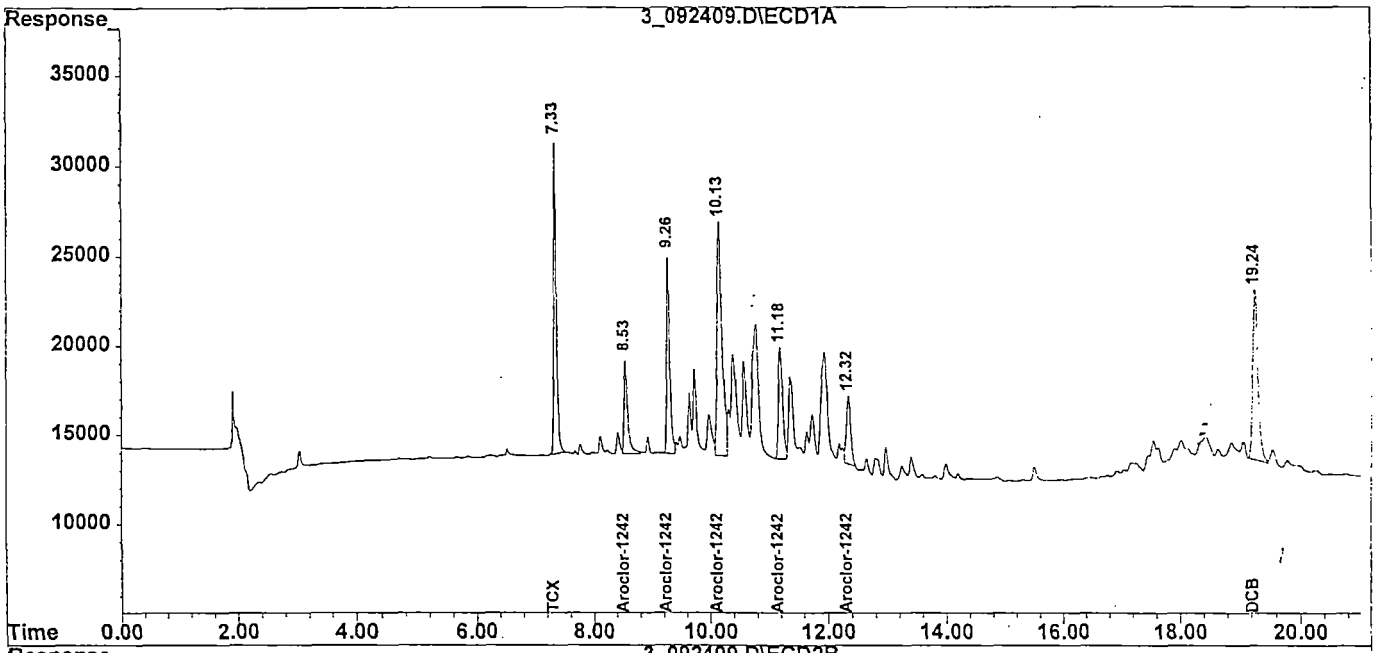
F:\HPCHEM\HP\3\DATA\09_24_01\3_092408.D
Report generated: Tue Sep 25 09:15:45 2001

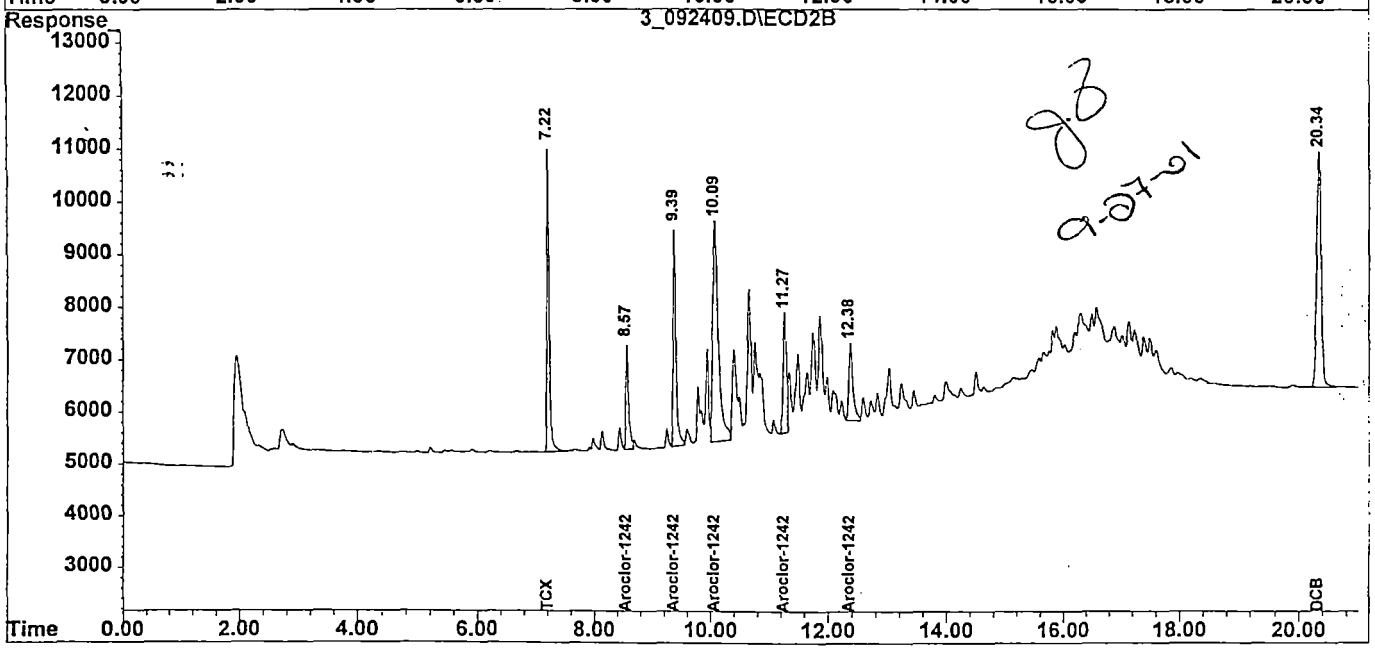
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092409.D\ECD1A.CH Vial: 81
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092409.D\ECD2B.CH
Acq On : 24 Sep 2001 16:38 Operator: BTB
Sample : AR1242L23Q Inst : HP_03
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:41 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B





gB
9-27-01

114

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092409.D\ECD1A.CH Vial: 81
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092409.D\ECD2B.CH
Acq On : 24 Sep 2001 16:38 Operator: BTB
Sample : AR1242L23Q Inst : HP_03
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:41 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

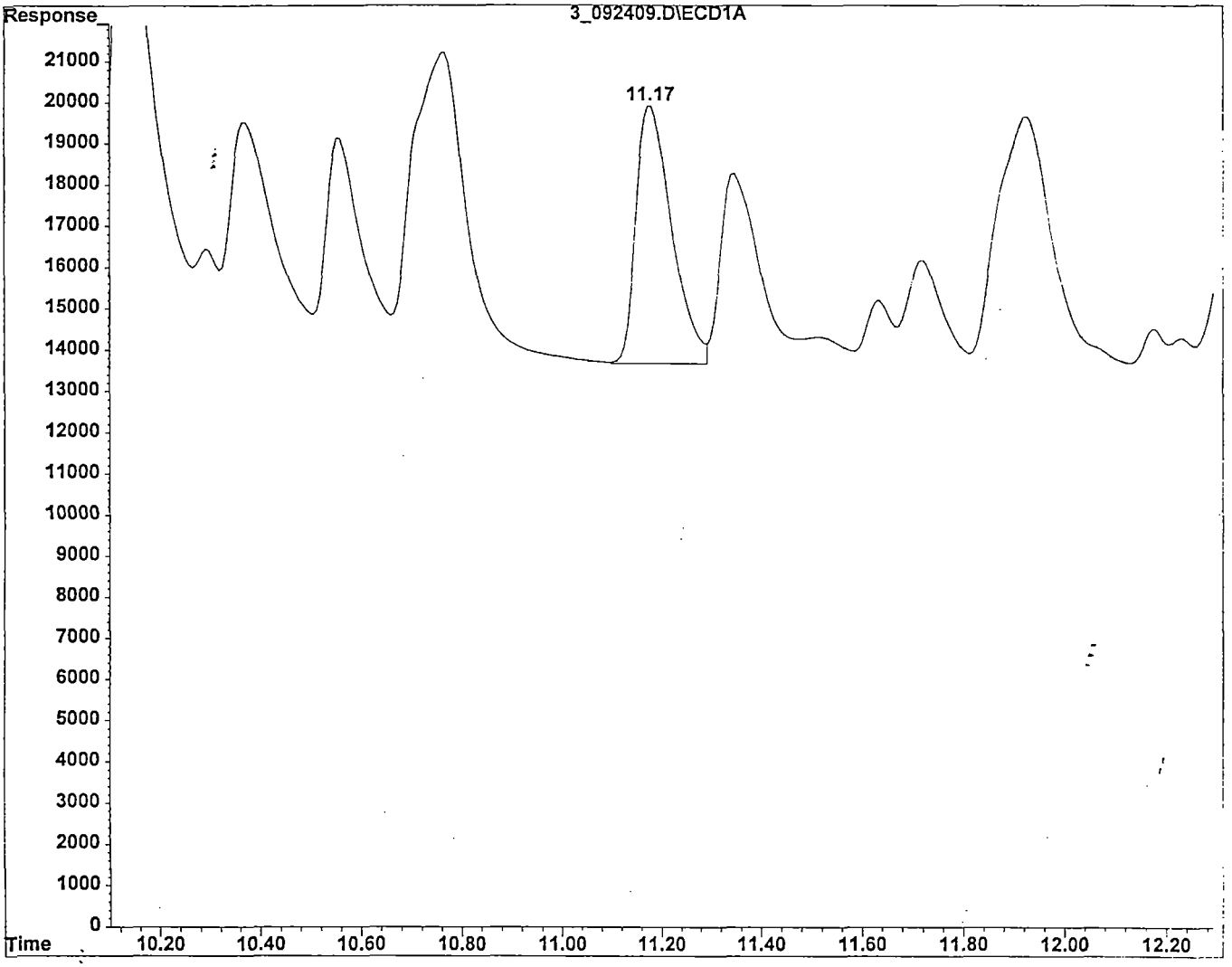
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	553653	168071	10.2	10.4
22)	S DCB	19.24	20.34	535250	233947	9.514	9.547
	Target Compounds:						
7)	L4 Aroclor-1242	8.53	8.57	225373	66590	199.2	210.5
8)	L4 Aroclor-1242 {2}	9.26	9.39	410448	145886	208.1	212.5
9)	L4 Aroclor-1242 {3}	10.13	10.09	775473	278828	213.1	210.8
10)	L4 Aroclor-1242 {4}	11.17	11.28	310968	85412	194.7m BTB	197.4
11)	L4 Aroclor-1242 {5}	12.33	12.38	191967	74068	154.2 092501	192.8m # BTB 092501
	Sum Aroclor-1242			1914228	650783	969.4	1024.0
	Average Aroclor-1242					193.883	204.804

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_24_01\3_092409.D
Date Acquired: 24 Sep 2001 16:38
Inst: HP_03 Operator ID: BTB
Name: AR1242L23Q
Misc: 5-10-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:41 2001 Quant Results File: XPCBI24.RES

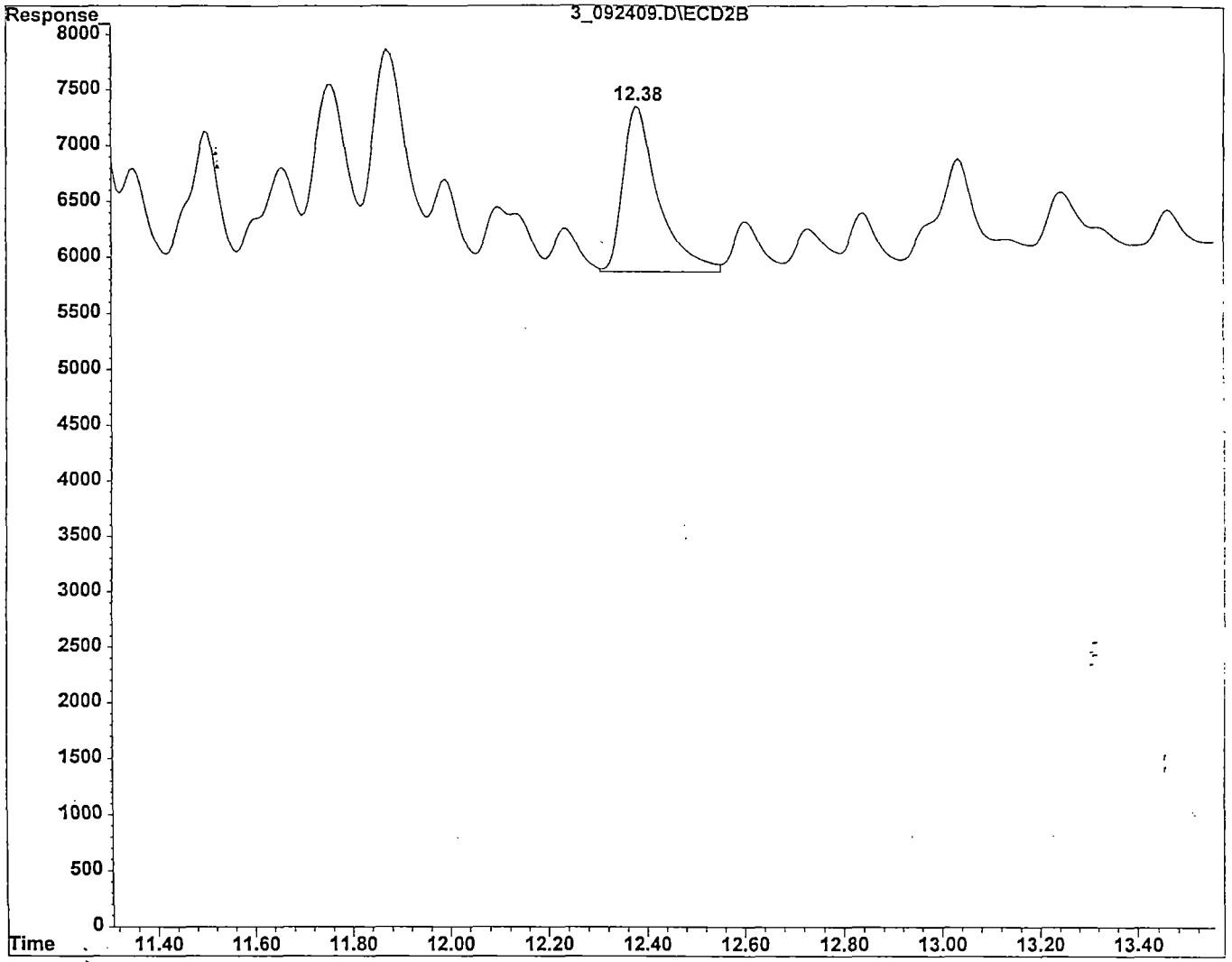


Aroclor-1242 {4} 11.17min area: 310968 m BTB 092501

Integration Time Range: 11.10 - 11.29

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_24_01\3_092409.D
Date Acquired: 24 Sep 2001 16:38
Inst: HP_03 Operator ID: BTB
Name: AR1242L23Q
Misc: 5-10-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:41 2001 Quant Results File: XPCBI24.RES



Aroclor-1242 {5} #2 12.38min area: 74068 m

Integration Time Range: 12.31 - 12.55

BTB
092501

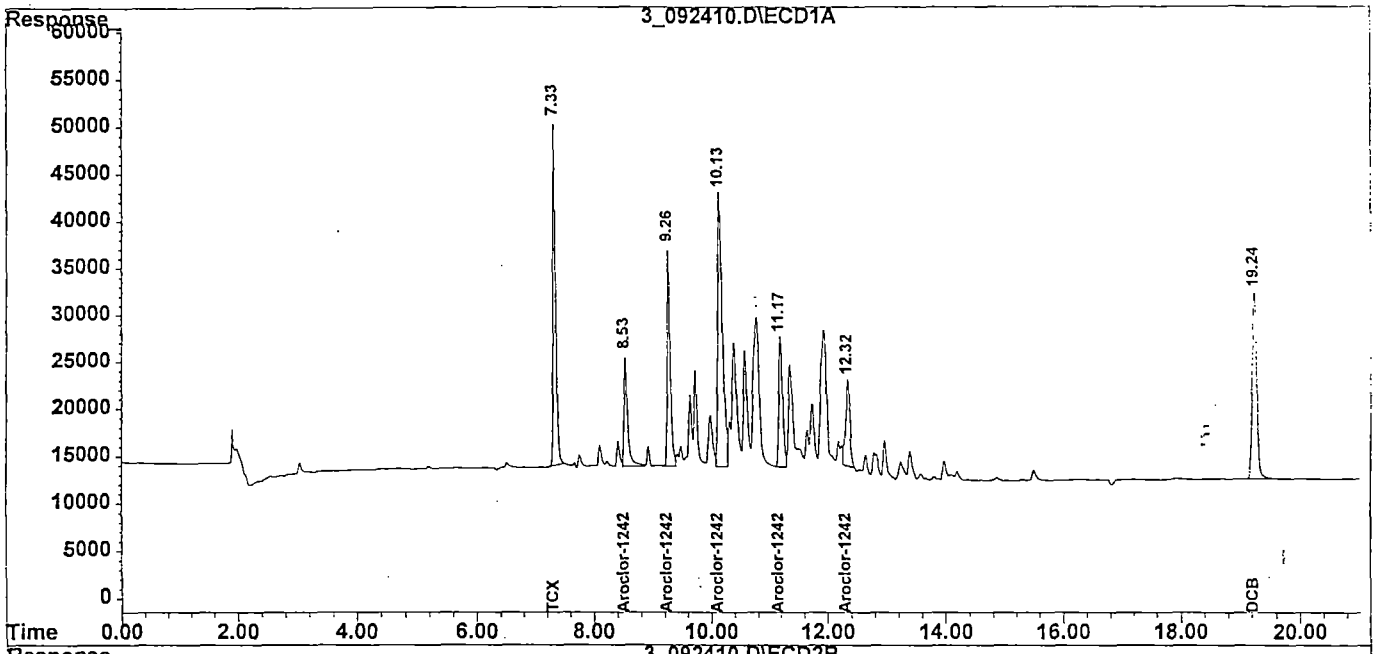
F:\HPCHEM\HP\3\DATA\09_24_01\3_092409.D
Report generated: Tue Sep 25 09:15:47 2001

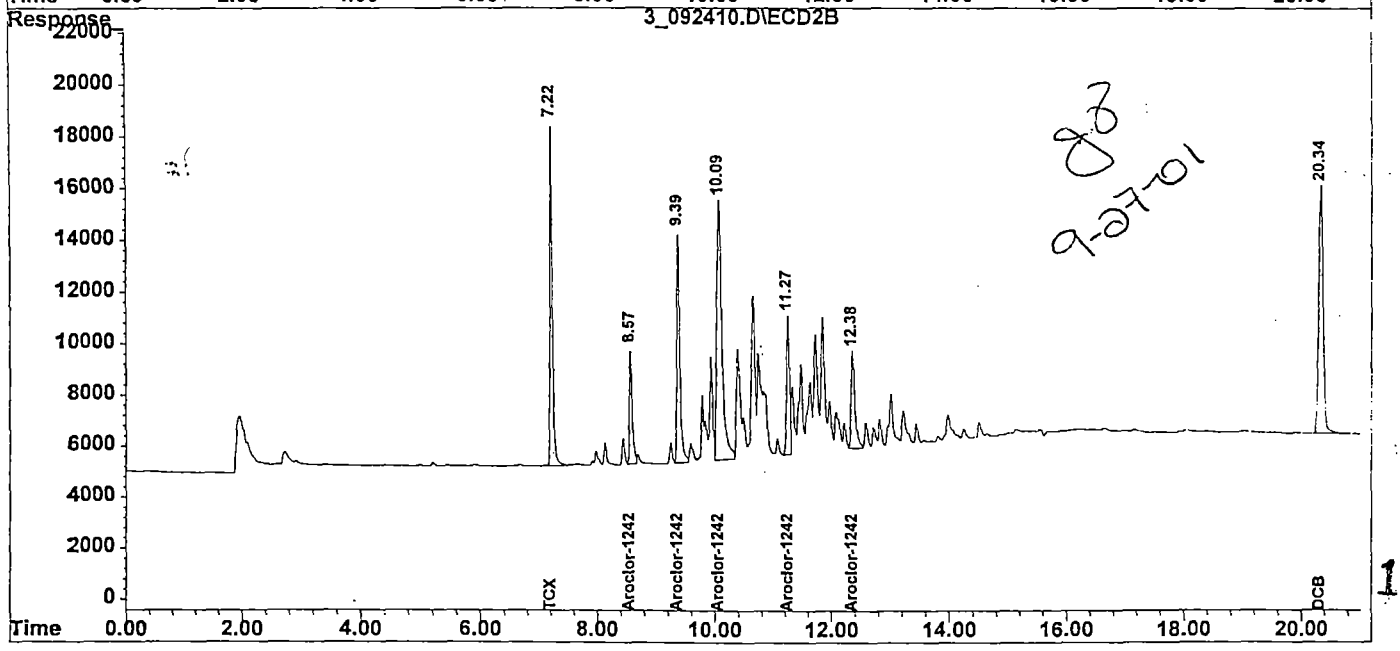
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092410.D\ECD1A.CH Vial: 82
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092410.D\ECD2B.CH
Acq On : 24 Sep 2001 17:04 Operator: BTB
Sample : AR1242L33Q Inst : HP_03
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:40 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B





gg
9-27-01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092410.D\ECD1A.CH Vial: 82
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092410.D\ECD2B.CH
Acq On : 24 Sep 2001 17:04 Operator: BTB
Sample : AR1242L33Q Inst : HP_03
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:40 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

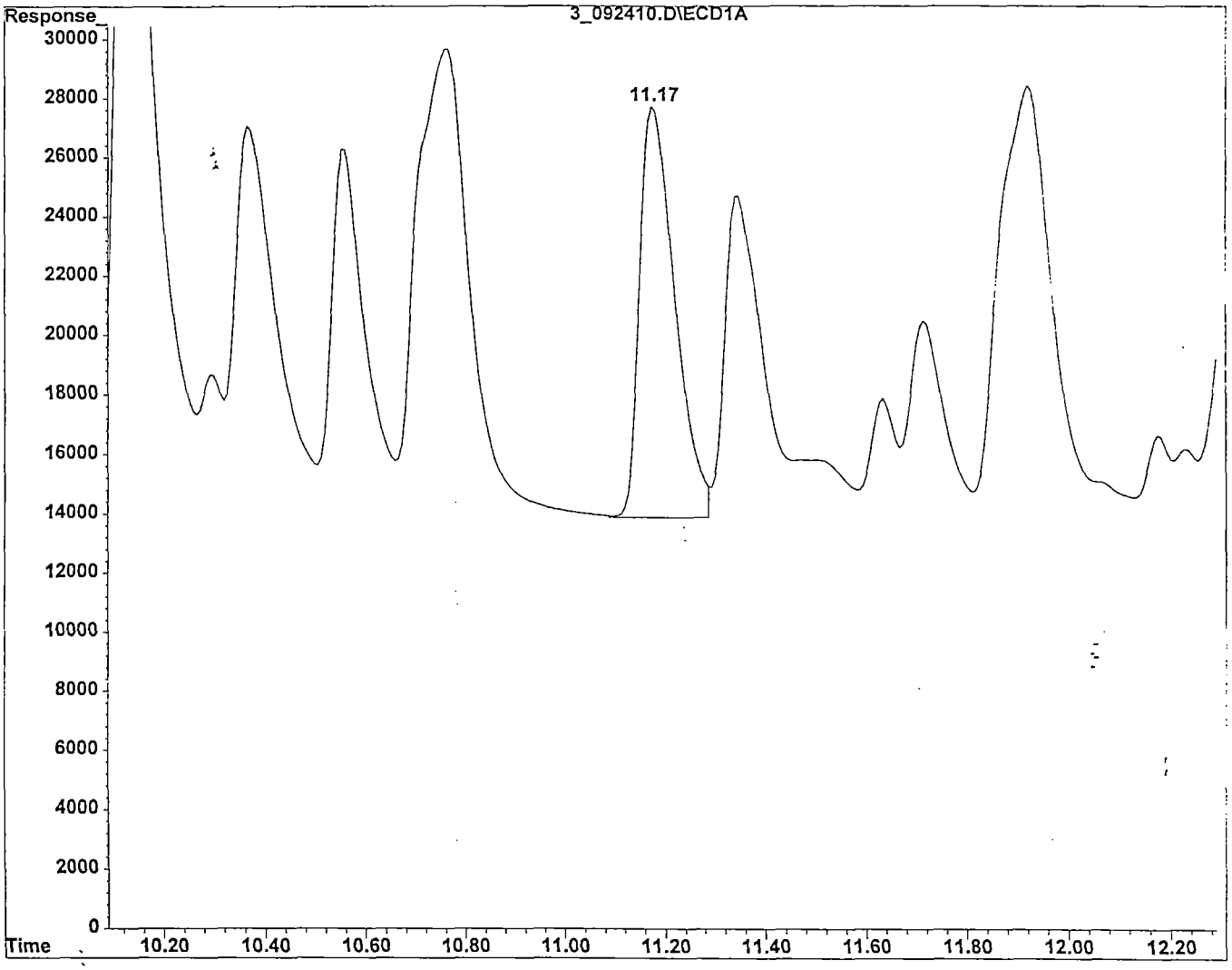
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	1194637	379047	22.0	23.4
22)	S DCB	19.24	20.34	1052426	511133	18.7	20.9
	Target Compounds:						
7)	L4 Aroclor-1242	8.53	8.57	496227	146034	438.6	461.7
8)	L4 Aroclor-1242 {2}	9.26	9.39	844953	314764	428.4	458.4
9)	L4 Aroclor-1242 {3}	10.13	10.09	1599913	612745	439.7	463.3
10)	L4 Aroclor-1242 {4}	11.17	11.28	667756	195111	418.2m BTB 09/25/01	450.9
11)	L4 Aroclor-1242 {5}	12.32	12.37	465796	171688	374.3	447.0m BTB 09/25/01
	Sum Aroclor-1242			4074645	1440342	2099.2	2281.3
	Average Aroclor-1242					419.832	456.252

119

(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\3\DATA\09_24_01\3_092410.D
Date Acquired: 24 Sep 2001 17:04
Inst: HP_03 Operator ID: BTB
Name: AR1242L33Q
Misc: 5-9-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:40 2001 Quant Results File: XPCBI24.RES



Aroclor-1242 {4} 11.17min area: 667756 m

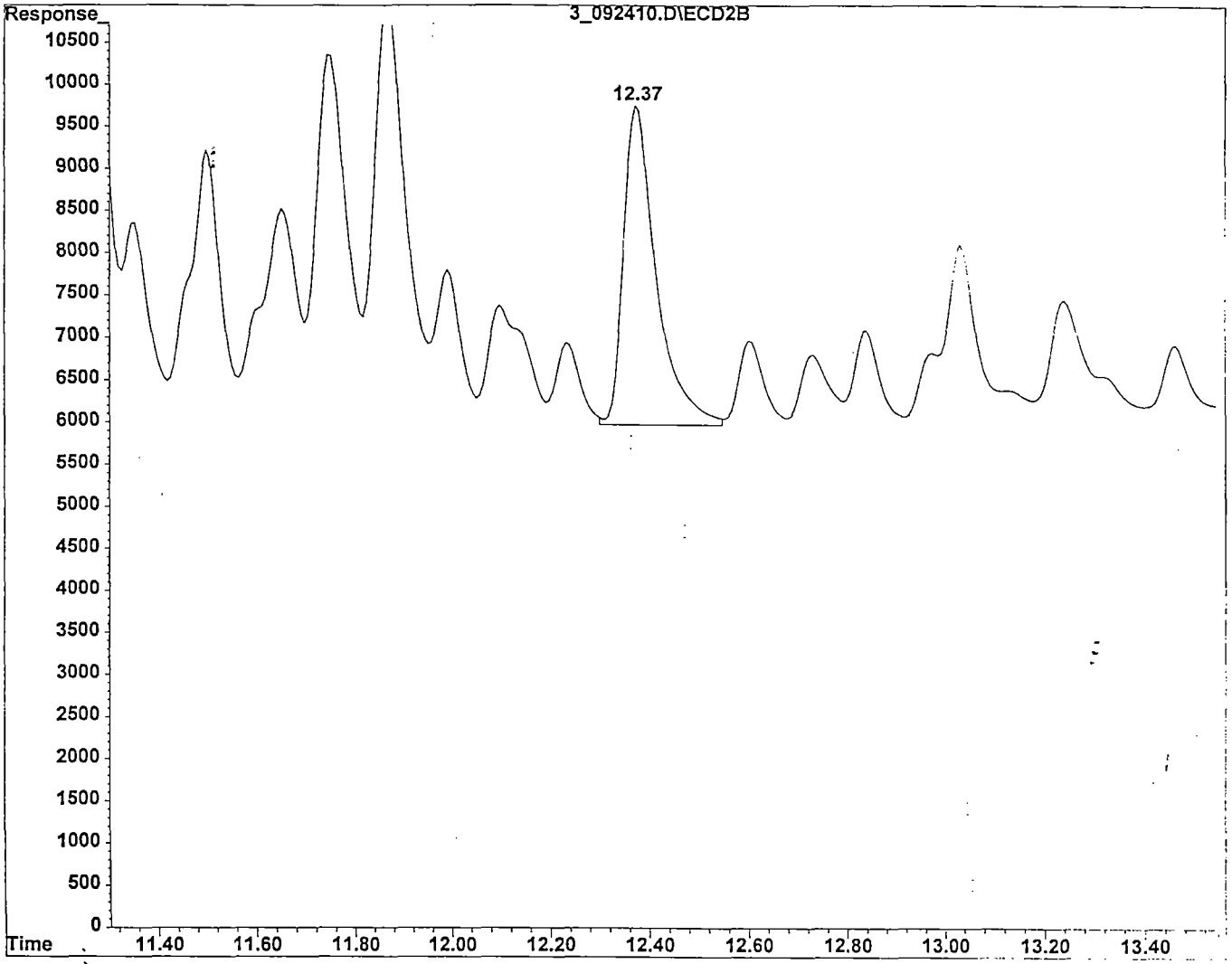
BTB 092501

Integration Time Range: 11.09 - 11.29

F:\HPCHEM\HP\3\DATA\09_24_01\3_092410.D
Report generated: Tue Sep 25 09:15:49 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_24_01\3_092410.D
Date Acquired: 24 Sep 2001 17:04
Inst: HP_03 Operator ID: BTB
Name: ARI242L33Q
Misc: 5-9-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:40 2001 Quant Results File: XPCBI24.RES



Aroclor-1242 {5} #2 12.37min area: 171688 m

Integration Time Range: 12.30 - 12.54

BTB 092501

121

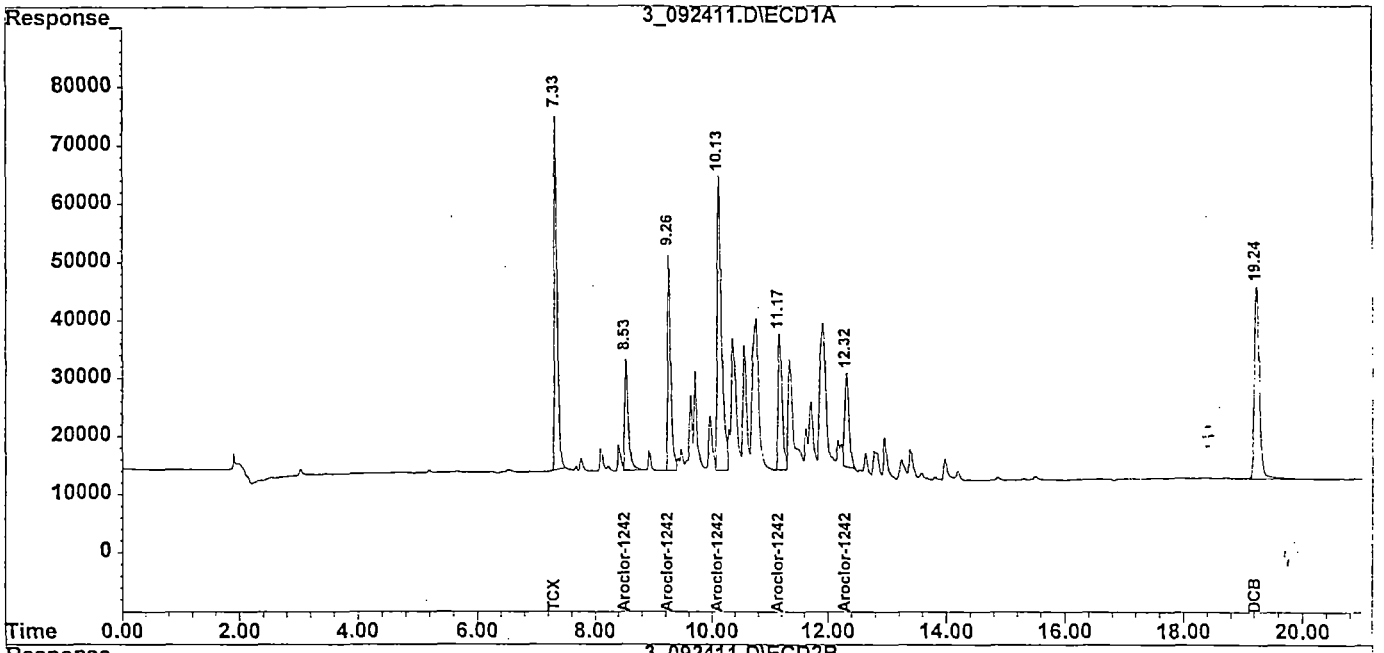
F:\HPCHEM\HP\3\DATA\09_24_01\3_092410.D
Report generated: Tue Sep 25 09:15:50 2001

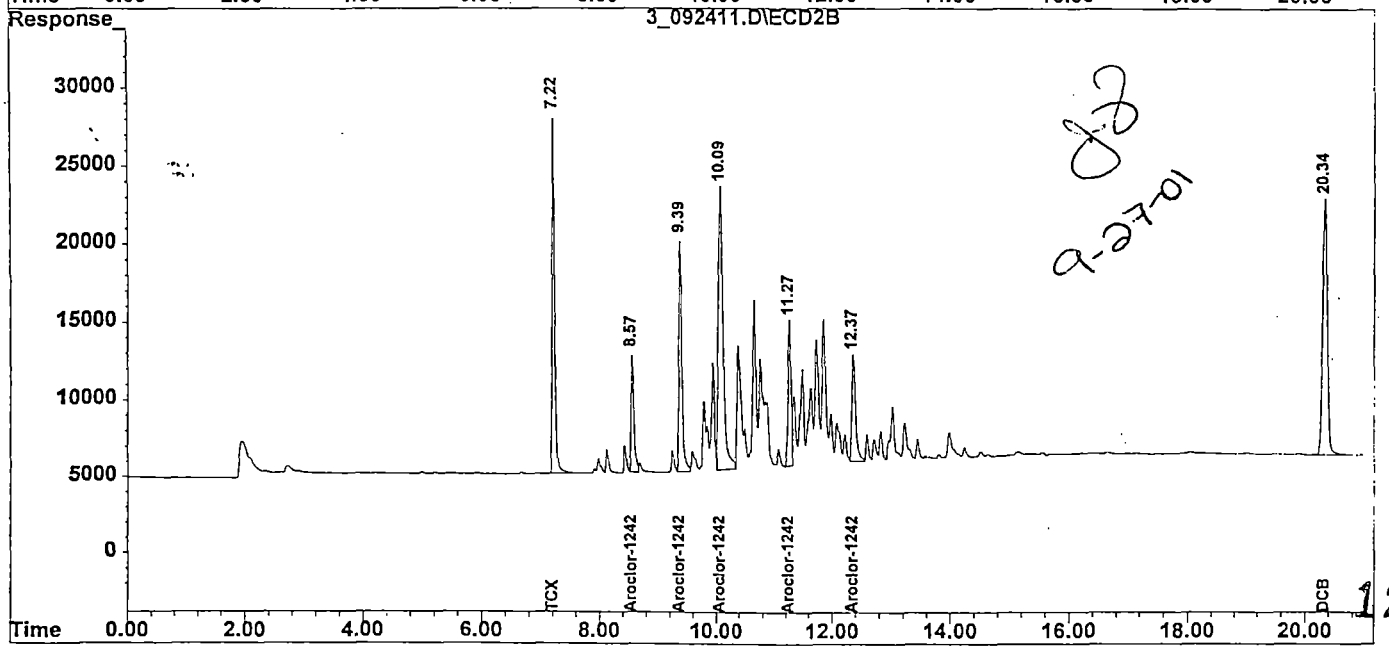
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092411.D\ECD1A.CH Vial: 83
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092411.D\ECD2B.CH
Acq On : 24 Sep 2001 17:30 Operator: BTB
Sample : AR1242L43Q Inst : HP_03
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:40 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B





9-27-01

122

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092411.D\ECD1A.CH Vial: 83
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092411.D\ECD2B.CH
Acq On : 24 Sep 2001 17:30 Operator: BTB
Sample : AR1242L43Q Inst : HP_03
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:40 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

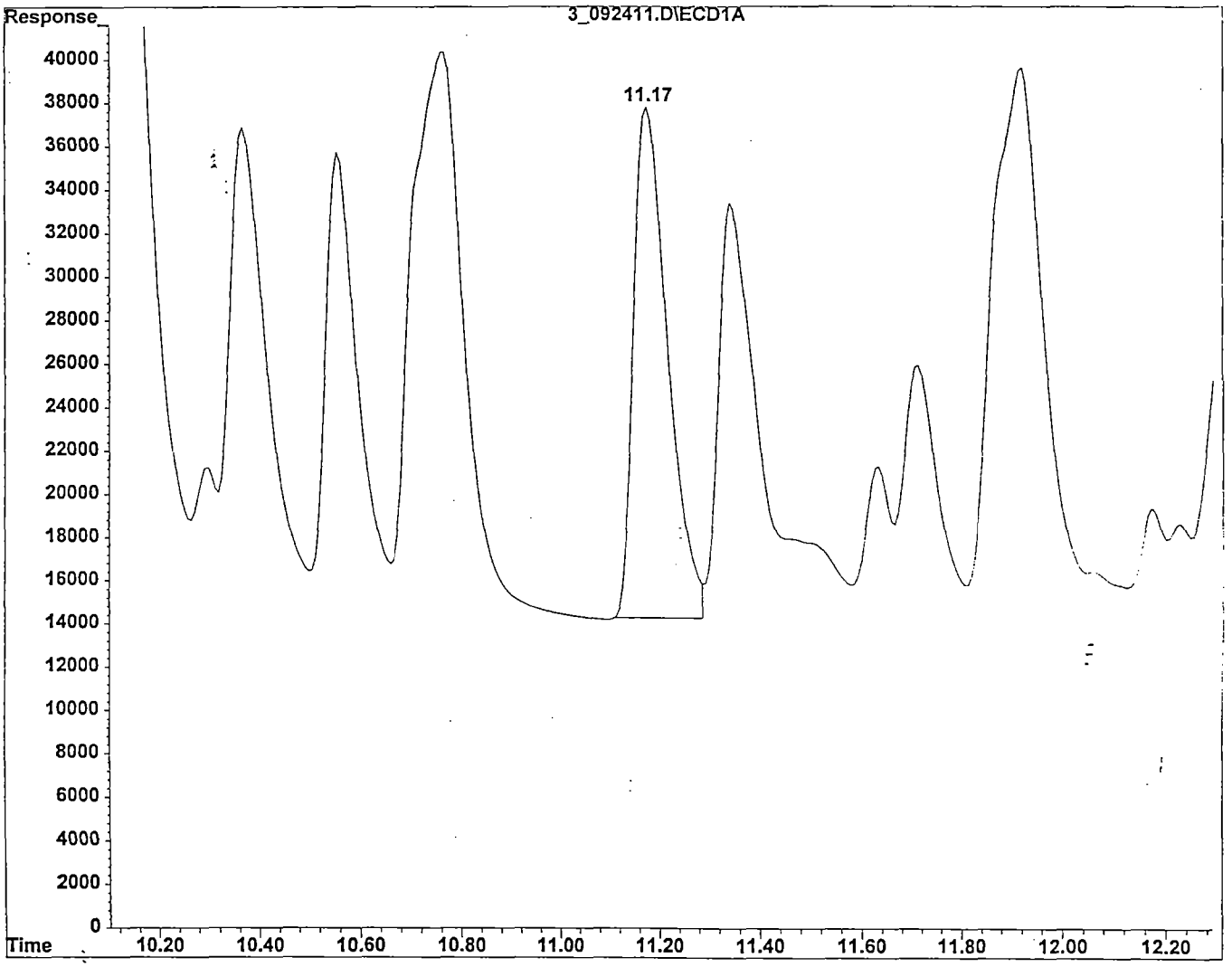
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	2092402	687006	38.6	42.4
22)	S DCB	19.24	20.34	1837461	889363	32.7	36.3
	Target Compounds:						
7)	L4 Aroclor-1242	8.53	8.57	789664	250104	698.0	790.7
8)	L4 Aroclor-1242 {2}	9.26	9.39	1390561	530284	705.0	772.3
9)	L4 Aroclor-1242 {3}	10.13	10.09	2647191	1034332	727.6	782.1
10)	L4 Aroclor-1242 {4}	11.17	11.28	1123376	340443	703.5m BTB 092501	786.8
11)	L4 Aroclor-1242 {5}	12.32	12.37	832209	303620	668.7	790.4m BTB 092501
	Sum Aroclor-1242			6783000	2458784	3502.7	3922.2
	Average Aroclor-1242					700.543	784.449

123

(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\3\DATA\09_24_01\3_092411.D
Date Acquired: 24 Sep 2001 17:30
Inst: HP_03 Operator ID: BTB
Name: AR1242L43Q
Misc: 5-8-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:40 2001 Quant Results File: XPCBI24.RES



Aroclor-1242 {4} 11.17min area: 1123376 m

Integration Time Range: 11.10 - 11.29

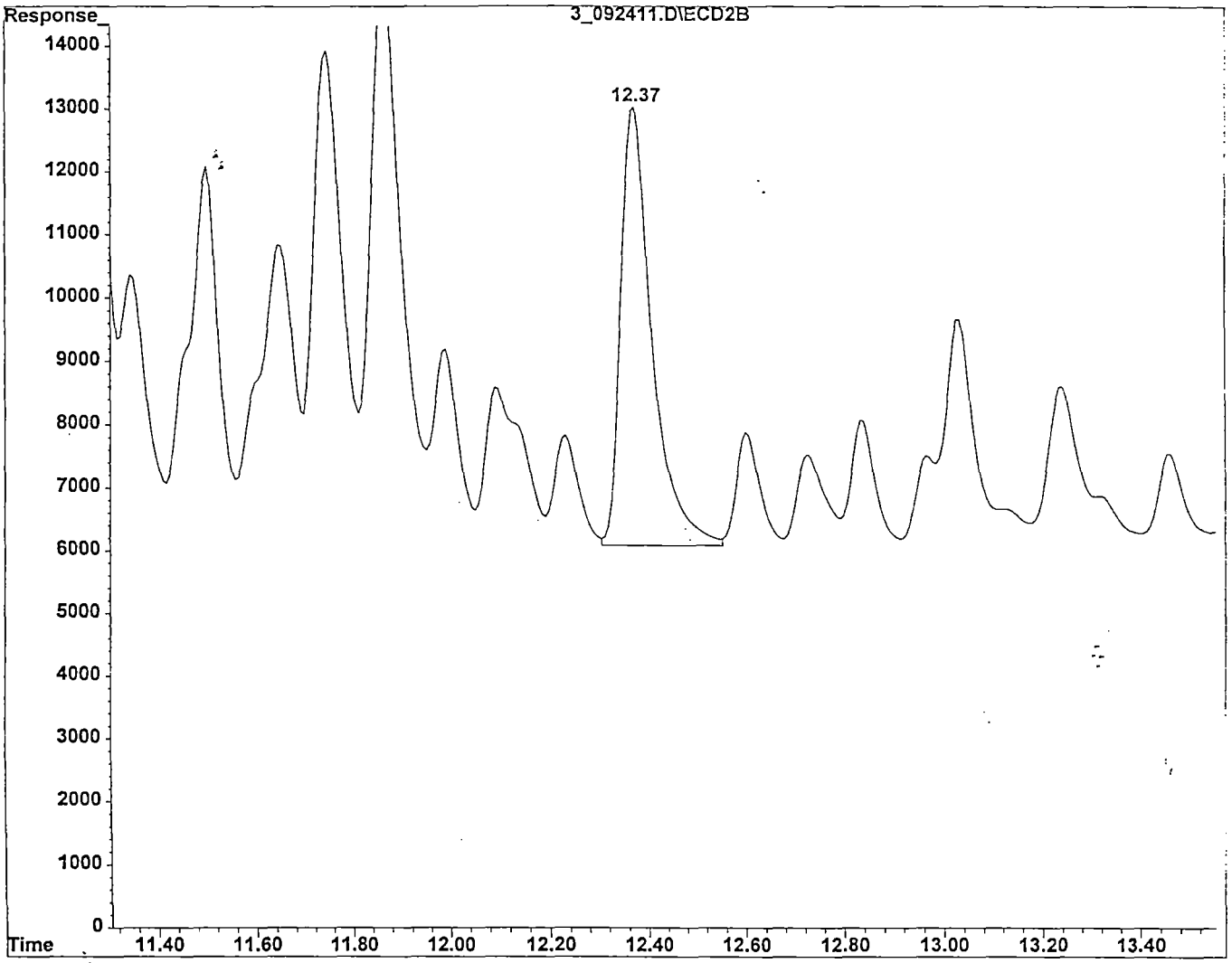
BTB
092501

124

F:\HPCHEM\HP\3\DATA\09_24_01\3_092411.D
Report generated: Tue Sep 25 09:15:51 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_24_01\3_092411.D
Date Acquired: 24 Sep 2001 17:30
Inst: HP_03 Operator ID: BTB
Name: ARI242L43Q
Misc: 5-8-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:40 2001 Quant Results File: XPCBI24.RES



Aroclor-1242 {5} #2 12.37min area: 303620 m

Integration Time Range: 12.31 - 12.55

BTB
09/25/01

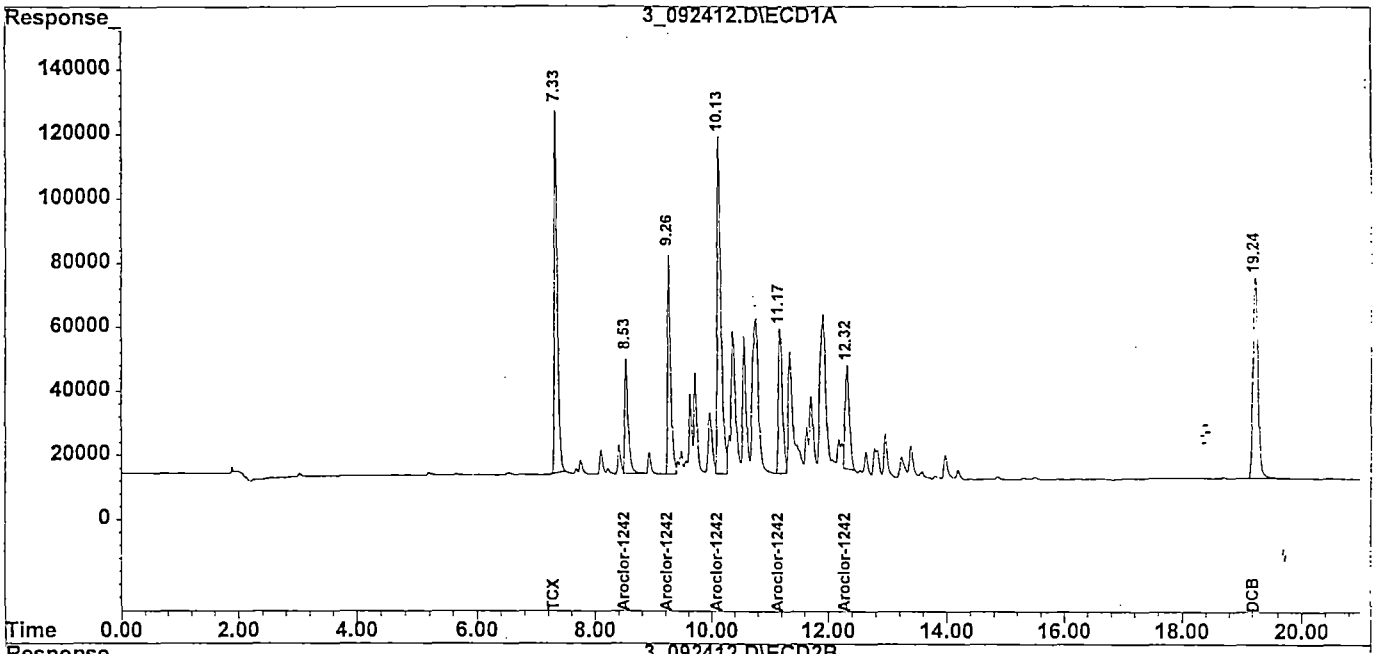
F:\HPCHEM\HP\3\DATA\09_24_01\3_092411.D
Report generated: Tue Sep 25 09:15:52 2001

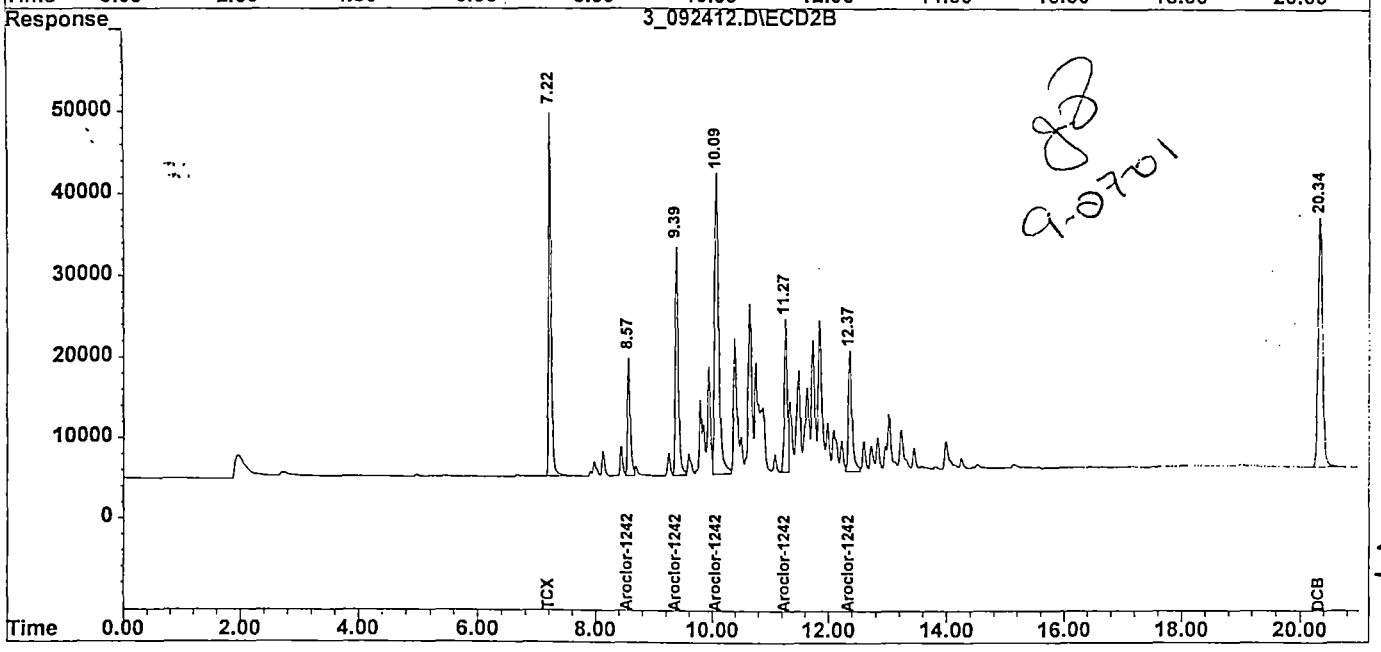
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092412.D\ECD1A.CH Vial: 84
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092412.D\ECD2B.CH
Acq On : 24 Sep 2001 17:55 Operator: BTB
Sample : AR1242L53Q Inst : HP_03
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:42 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B





8
9-07-01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092412.D\ECD1A.CH Vial: 84
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092412.D\ECD2B.CH
Acq On : 24 Sep 2001 17:55 Operator: BTB
Sample : AR1242L53Q Inst : HP_03
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:42 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	4060539	1381442	74.9 E	85.2 E
22)	S DCB	19.24	20.34	3455068	1706698	61.4	69.6
	Target Compounds:						
7)	L4 Aroclor-1242	8.53	8.57	1451516	474706	1283.0 E	1500.7 E
8)	L4 Aroclor-1242 {2}	9.26	9.39	2537679	992240	1286.5 E	1445.0 E
9)	L4 Aroclor-1242 {3}	10.13	10.09	4933396	1934418	1355.9 E	1462.7 E
10)	L4 Aroclor-1242 {4}	11.17	11.27	2183956	672172	1367.7mE BTB	1553.4 E
11)	L4 Aroclor-1242 {5}	12.32	12.37	1658345	639088	1332.5 092501	1663.8mE BTB
	Sum Aroclor-1242			12764893	4712624	6625.6	7625.6 092501
	Average Aroclor-1242					1325.124	1525.123

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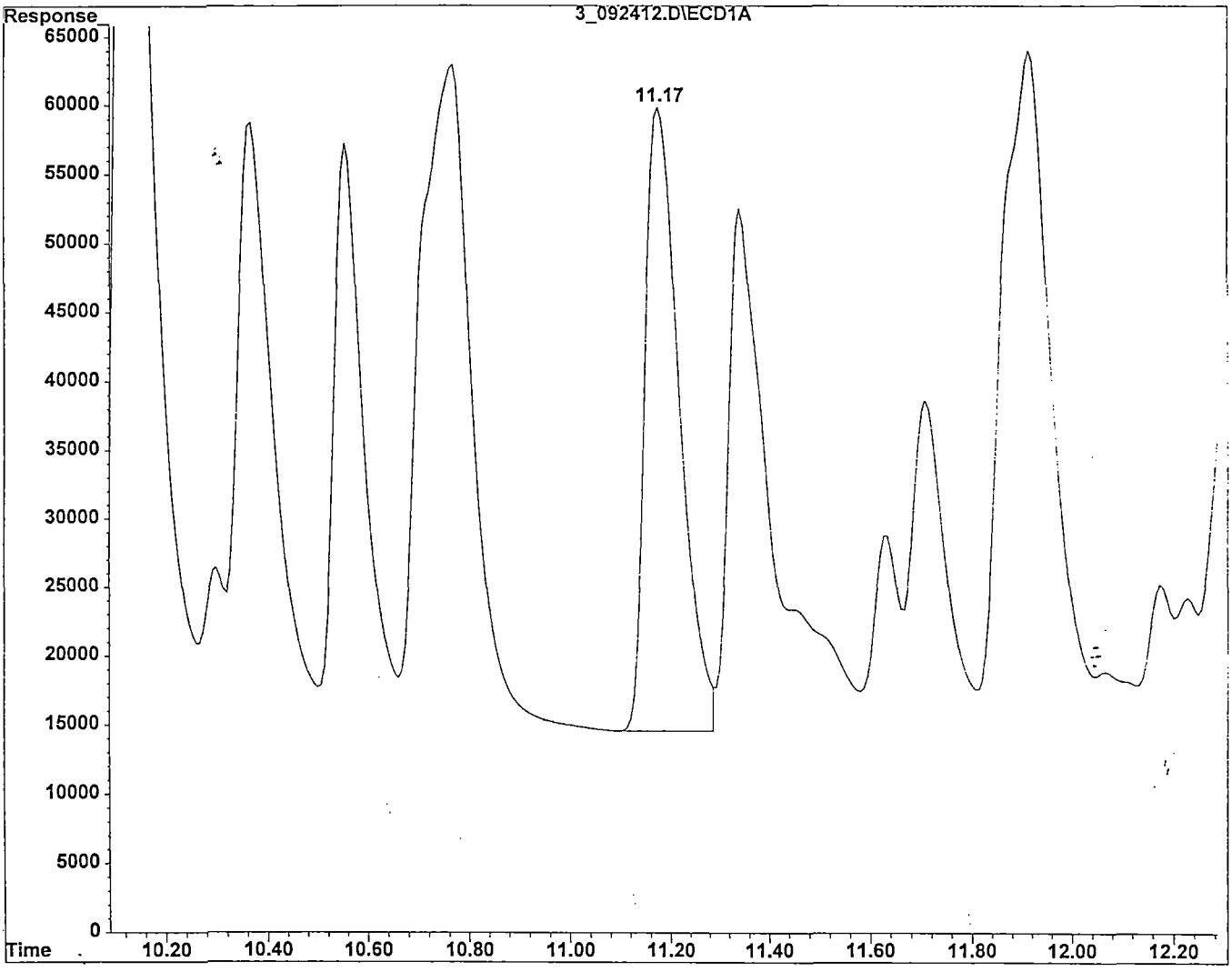
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_24_01\3_092412.D
Date Acquired: 24 Sep 2001 17:55
Inst: HP_03 Operator ID: BTB
Name: AR1242L53Q
Misc: 5-7-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:42 2001 Quant Results File: XPCBI24.RES



Aroclor-1242 {4} 11.17min area: 2183956 m

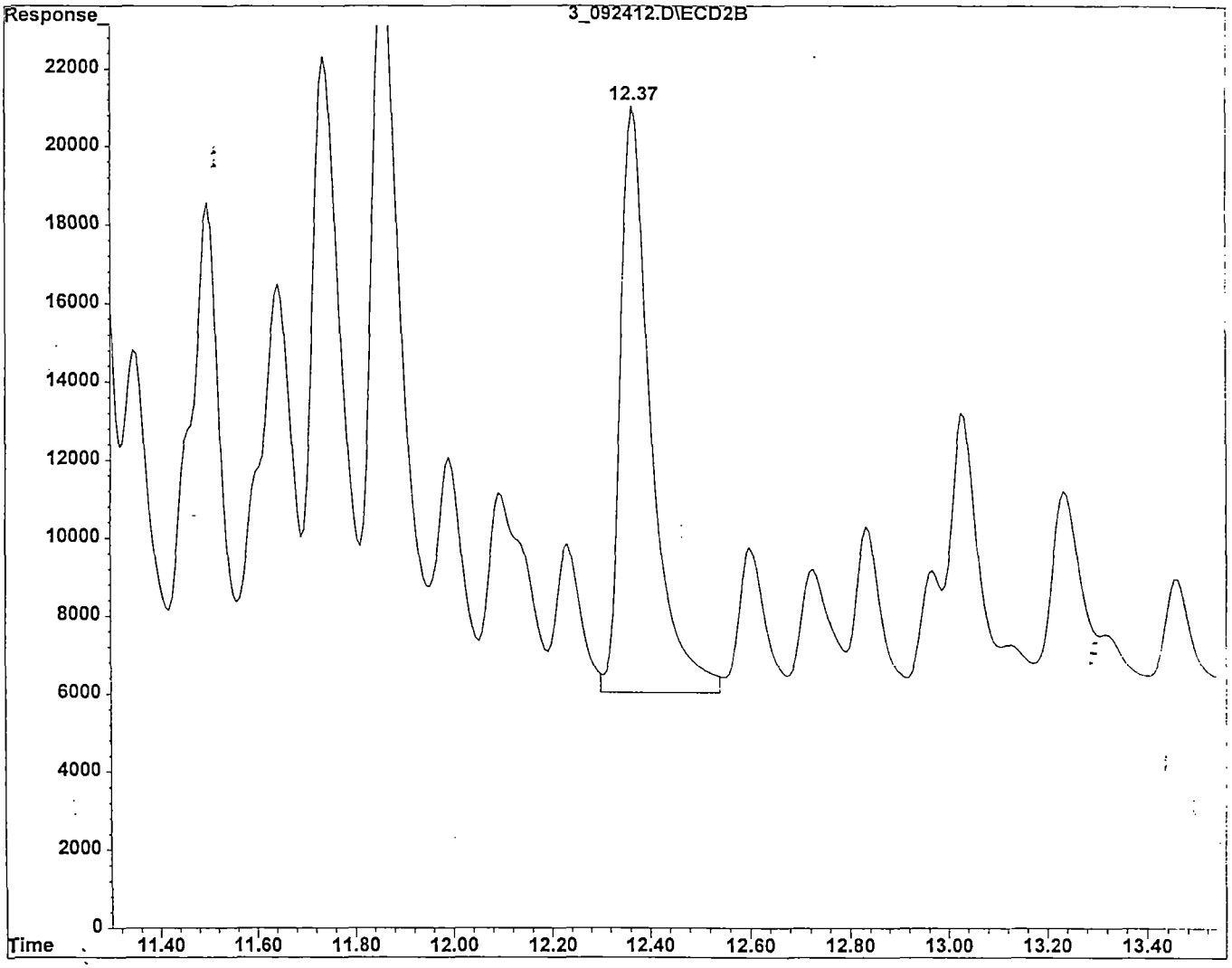
BTB 092501

Integration Time Range: 11.09 - 11.29

F:\HPCHEM\HP\3\DATA\09_24_01\3_092412.D
Report generated: Tue Sep 25 09:15:53 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_24_01\3_092412.D
Date Acquired: 24 Sep 2001 17:55
Inst: HP_03 Operator ID: BTB
Name: AR1242L53Q
Misc: 5-7-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:42 2001 Quant Results File: XPCBI24.RES



Aroclor-1242 {5} #2 12.37min area: 639088 m

BTB 092501

Integration Time Range: 12.30 - 12.54

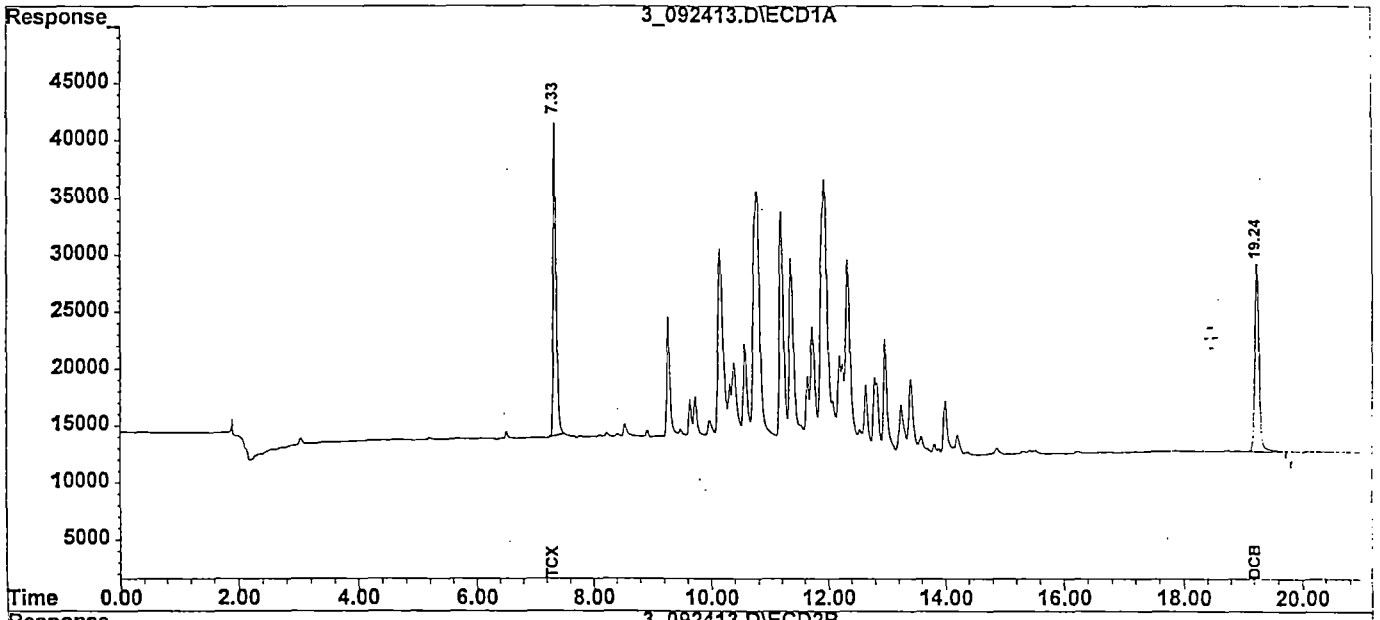
F:\HPCHEM\HP\3\DATA\09_24_01\3_092412.D
Report generated: Tue Sep 25 09:15:54 2001

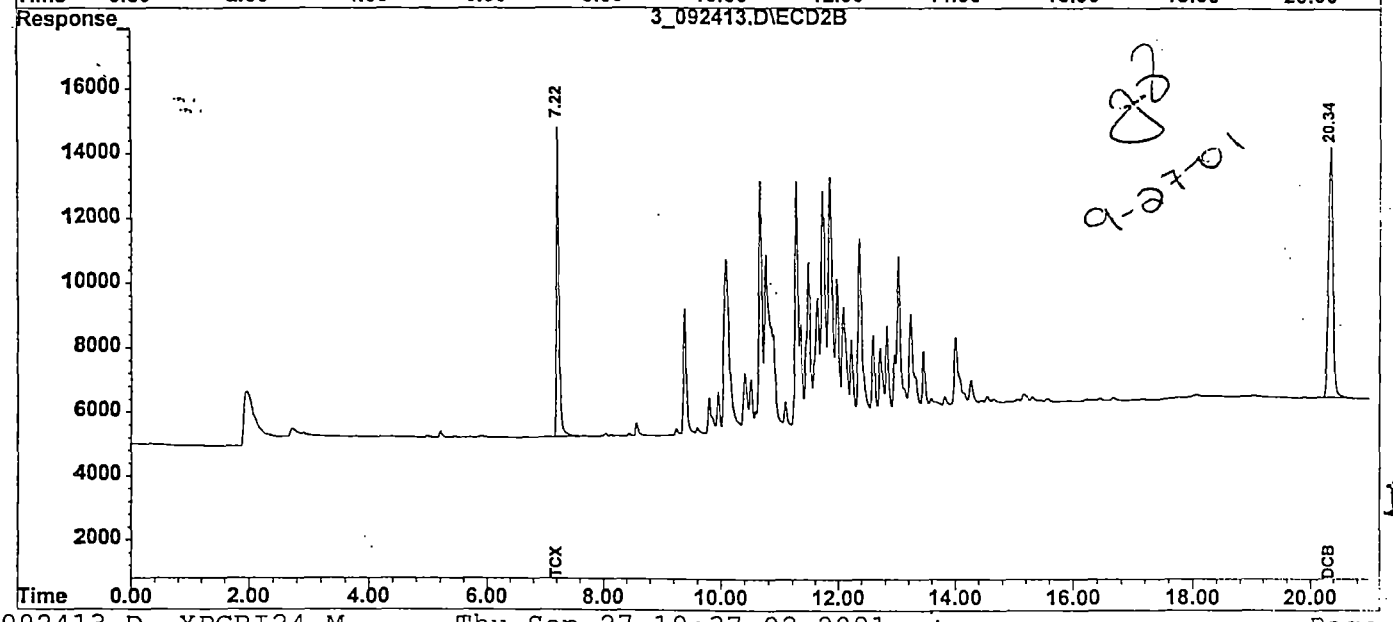
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092413.D\ECD1A.CH Vial: 85
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092413.D\ECD2B.CH
Acq On : 24 Sep 2001 18:21 Operator: BTB
Sample : AR1248L33Q Inst : HP_03
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 9:25 2001 Quant Results File: XPCBI24.RES
Quant Time: Sep 27 19:35 2001 Quant Results File: xspcbi24.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001

Multi-Component Method : f:\hpchem\hp\3\data\09_24_01\xspcbi24.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_03A Signal #2 Inst : HP_03B





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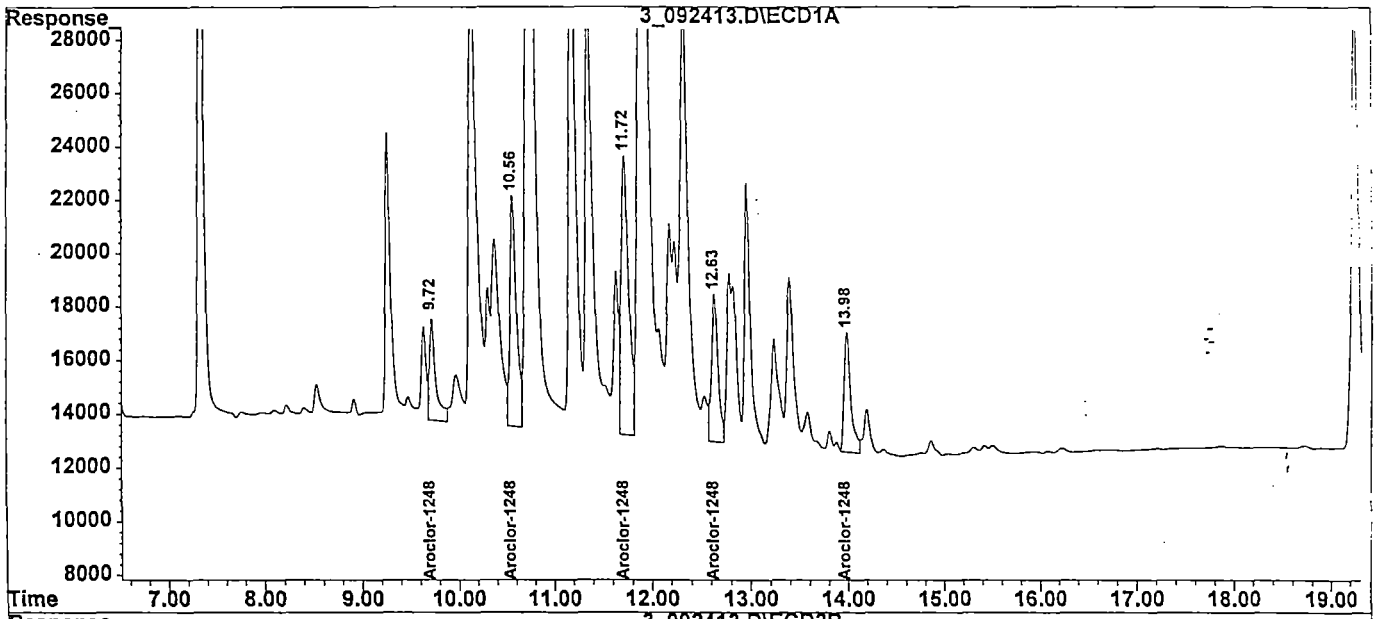
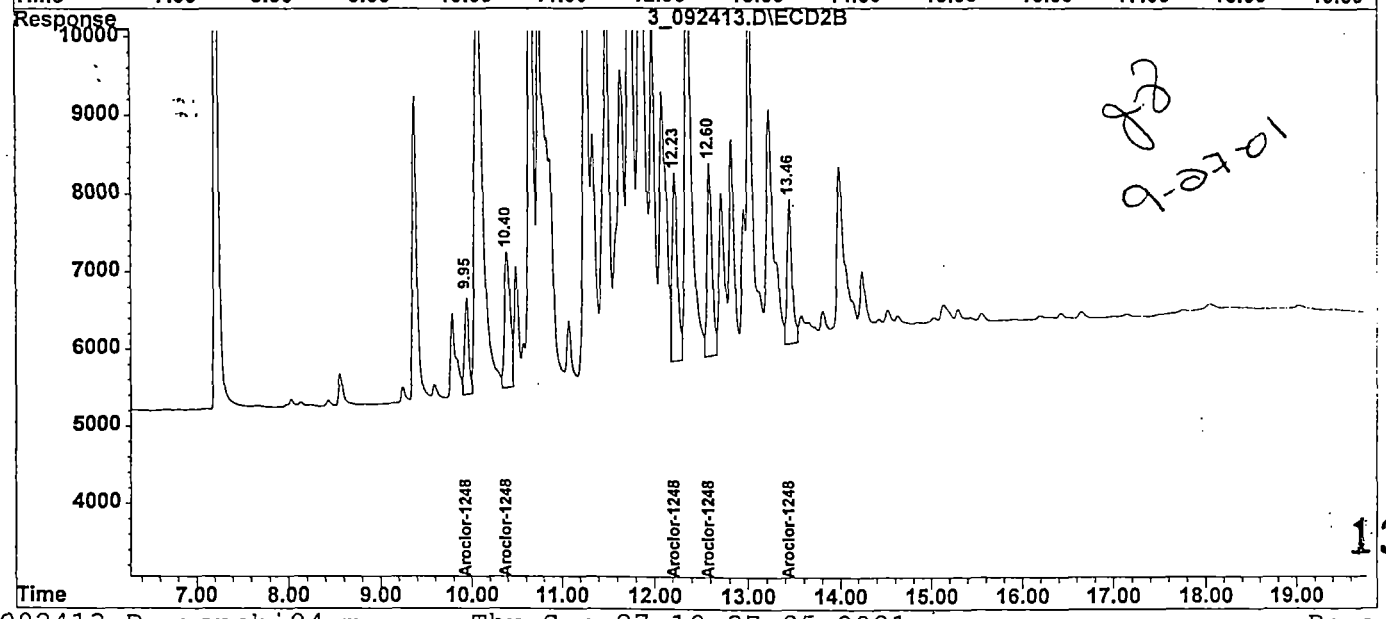
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092413.D\ECD1A.CH Vial: 85
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092413.D\ECD2B.CH
Acq On : 24 Sep 2001 18:21 Operator: BTB
Sample : AR1248L33Q Inst : HP_03
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 19:35 2001 Quant Results File: xspcbi24.RES
Quant Time: Sep 27 19:35 2001 Quant Results File: xspcbi24.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001

Multi-Component Method : f:\hpchem\hp\3\data\09_24_01\xspcbi24.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_03A Signal #2 Inst : HP_03B





JB 9-27-01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092413.D\ECD1A.CH Vial: 85
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092413.D\ECD2B.CH
Acq On : 24 Sep 2001 18:21 Operator: BTB
Sample : AR1248L33Q Inst : HP_03
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 9:25 2001 Quant Results File: XPCBI24.RES
Multi Time: Sep 27 19:35 2001 Quant Results File: xspcbi24.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001

Multi-Component Method : f:\hpchem\hp\3\data\09_24_01\xspcbi24.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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.33	7.22	953258	293285	17.6	18.1	
22)	S DCB	19.24	20.34	870129	413495	15.5	16.9	
	Target Compounds:							
	Multi-Component Compounds:							
14)	L5 Aroclor-1248	9.72	9.96	175809	39616	944.6	551.8	#
15)	L5 Aroclor-1248 {2}	10.56	10.40	416722	78369	802.7	523.4	#
16)	L5 Aroclor-1248 {3}	11.72	12.24	549873	92810	615.3	508.2	
17)	L5 Aroclor-1248 {4}	12.63	12.60	252959	90433	568.4	516.2	
18)	L5 Aroclor-1248 {5}	13.98	13.46	216327	69601	494.8	495.0	
	Sum Aroclor-1248			1611691	370828	3425.8	2594.6	
	Average Aroclor-1248					685.161	518.928	

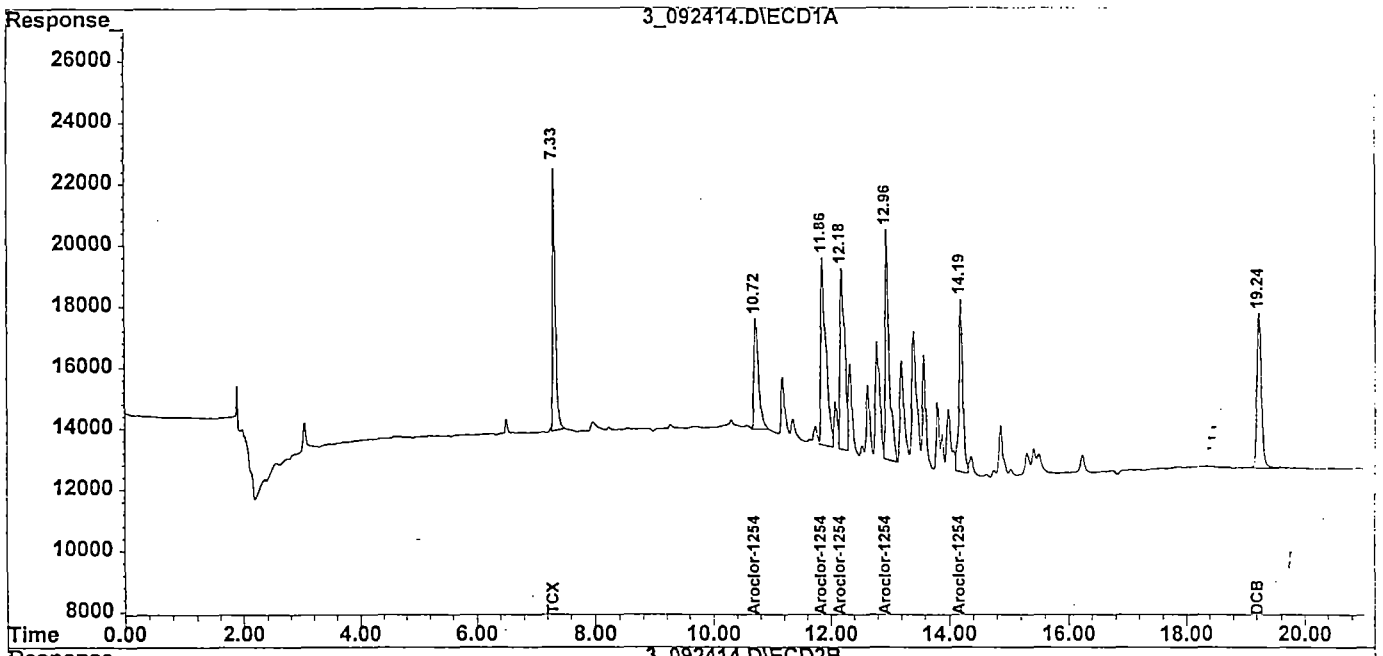
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
3_092413.D xspcbi24.m Thu Sep 27 19:36:58 2001 Page 1

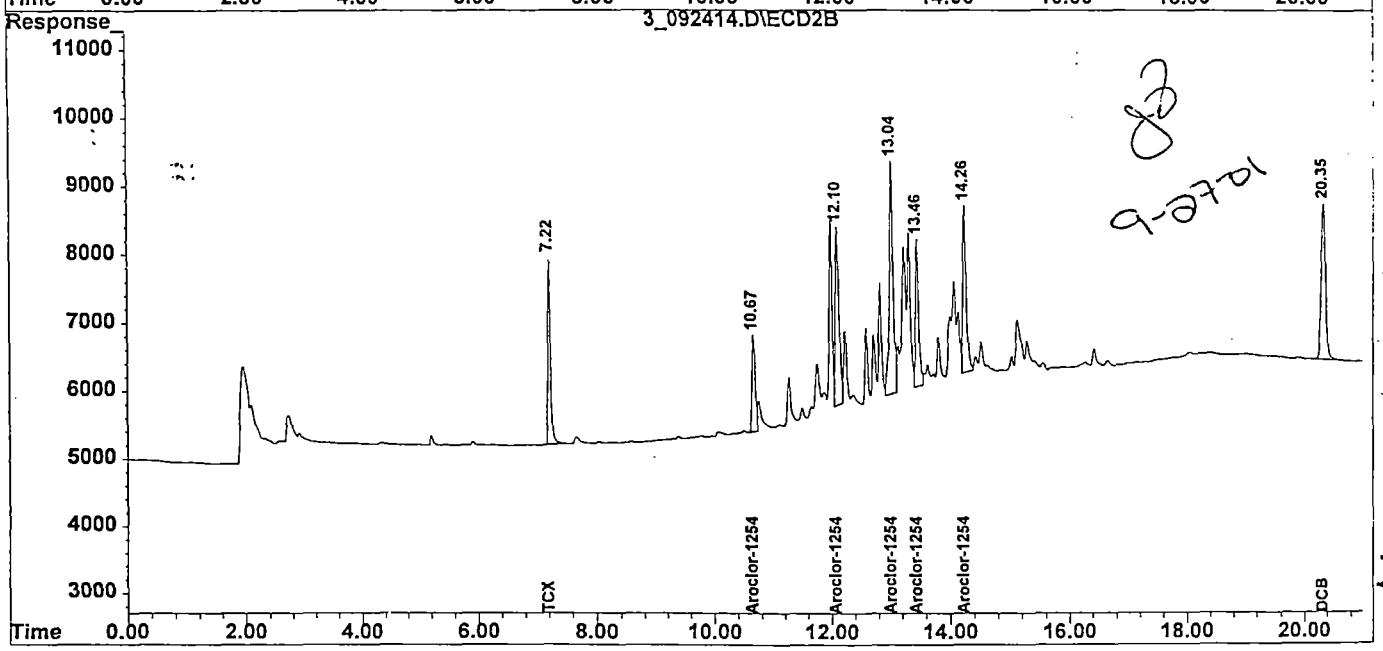
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092414.D\ECD1A.CH Vial: 86
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092414.D\ECD2B.CH
Acq On : 24 Sep 2001 18:47 Operator: BTB
Sample : AR1254L13Q Inst : HP_03
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 9:05 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092414.D\ECD1A.CH Vial: 86
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092414.D\ECD2B.CH
Acq On : 24 Sep 2001 18:47 Operator: BTB
Sample : AR1254L13Q Inst : HP_03
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 9:05 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	272136	80881	5.019	4.990
22)	S DCB	19.24	20.35	268749	122751	4.777	5.009
	Target Compounds:						
12)	L6 Aroclor-1254	10.72	10.68	195636	51899	96.7m BTB	106.5
13)	L6 Aroclor-1254 {2}	11.86	12.10	372323	116310	99.4 09/25/01	106.0
14)	L6 Aroclor-1254 {3}	12.18	13.04	338926	150477	98.9	102.3
15)	L6 Aroclor-1254 {4}	12.96	13.47	348190	80297	88.2	98.9
16)	L6 Aroclor-1254 {5}	14.20	14.26	263505	99364	82.4	91.4
	Sum Aroclor-1254			1518580	498347	465.7	505.2
	Average Aroclor-1254					93.132	101.031

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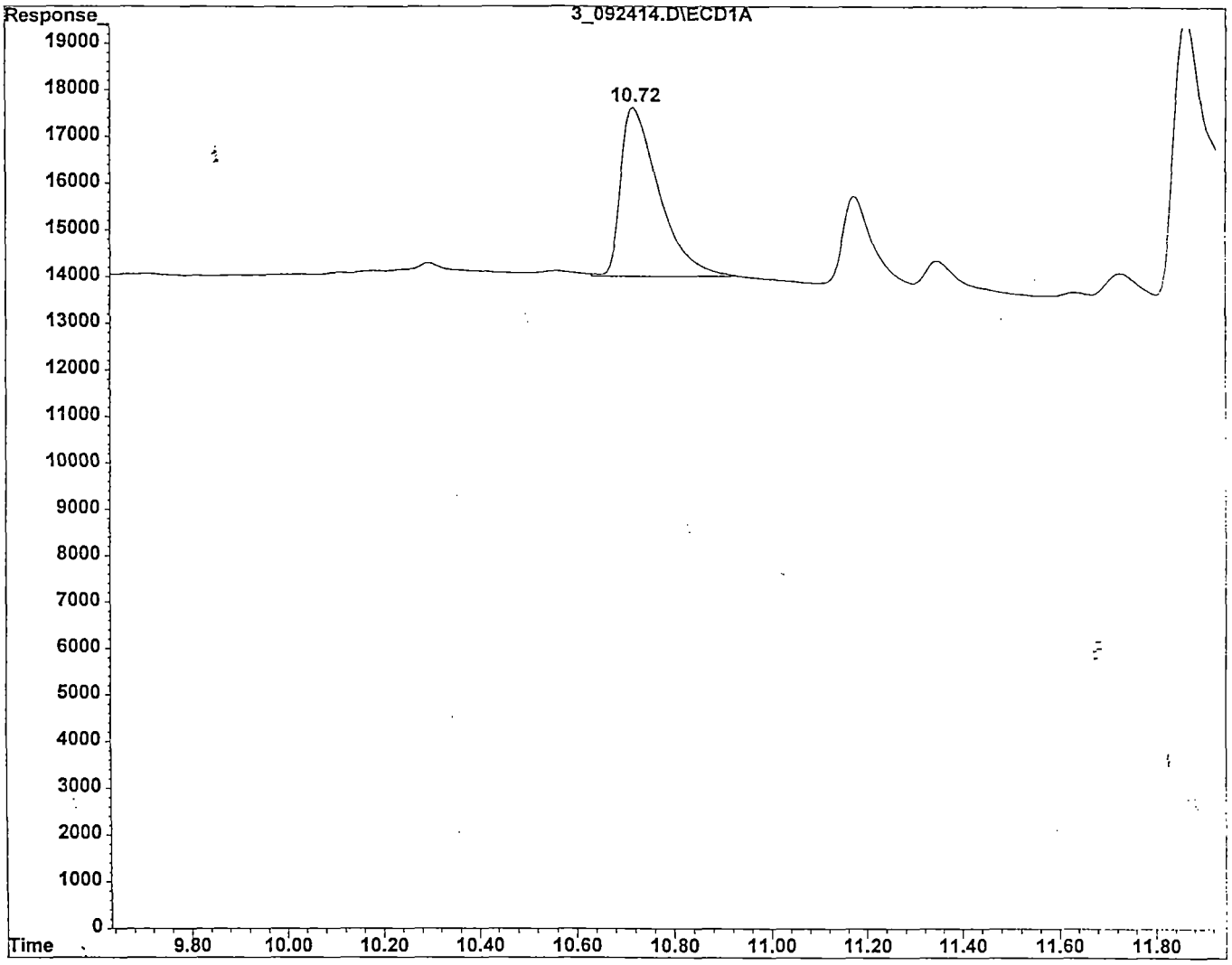
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_24_01\3_092414.D
Date Acquired: 24 Sep 2001 18:47
Inst: HP_03 Operator ID: BTB
Name: AR1254L13Q
Misc: 5-6-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 9:05 2001 Quant Results File: XPCBI24.RES



Aroclor-1254 10.72min area: 195636 m

BTB 092501

Integration Time Range: 10.63 - 10.93

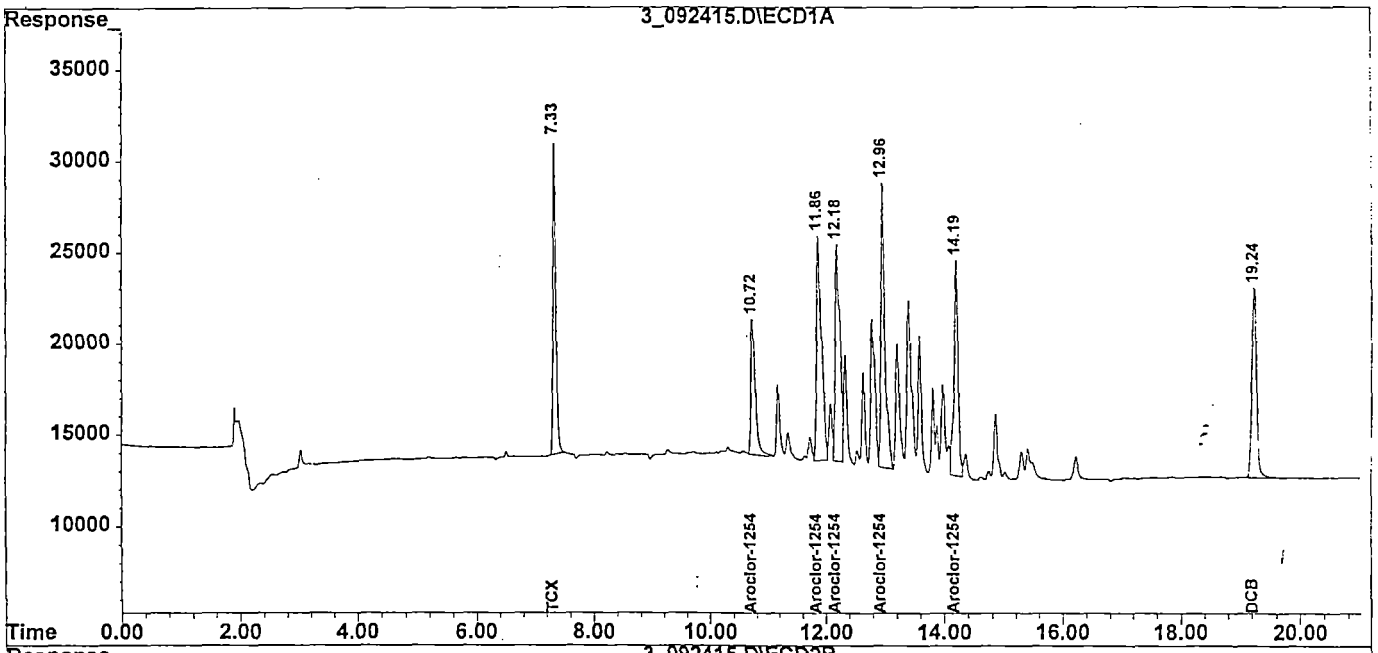
F:\HPCHEM\HP\3\DATA\09_24_01\3_092414.D
Report generated: Tue Sep 25 09:15:56 2001

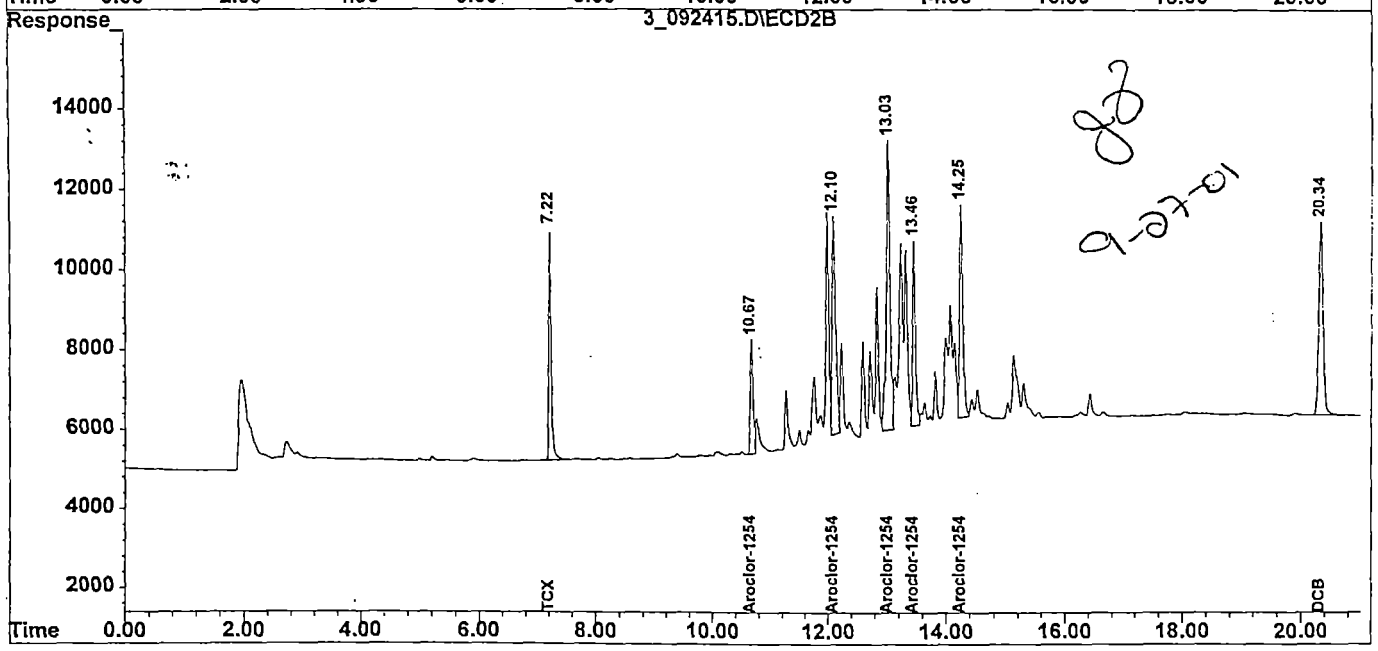
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092415.D\ECD1A.CH Vial: 87
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092415.D\ECD2B.CH
Acq On : 24 Sep 2001 19:13 Operator: BTB
Sample : AR1254L23Q Inst : HP_03
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:44 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092415.D\ECD1A.CH Vial: 87
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092415.D\ECD2B.CH
Acq On : 24 Sep 2001 19:13 Operator: BTB
Sample : AR1254L23Q Inst : HP_03
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:44 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	561822	172216	10.4	10.6
22)	S DCB	19.24	20.34	546968	256020	9.722	10.4
	Target Compounds:						
12)	L6 Aroclor-1254	10.72	10.67	418391	102850	206.9	211.0
13)	L6 Aroclor-1254 {2}	11.86	12.10	745581	231600	199.0	211.1
14)	L6 Aroclor-1254 {3}	12.18	13.03	671358	308686	196.0	209.9
15)	L6 Aroclor-1254 {4}	12.96	13.46	716646	160007	181.5	197.1
16)	L6 Aroclor-1254 {5}	14.19	14.26	566542	204889	177.2	188.5
	Sum Aroclor-1254			3118520	1008033	960.6	1017.6
	Average Aroclor-1254					192.116	203.529

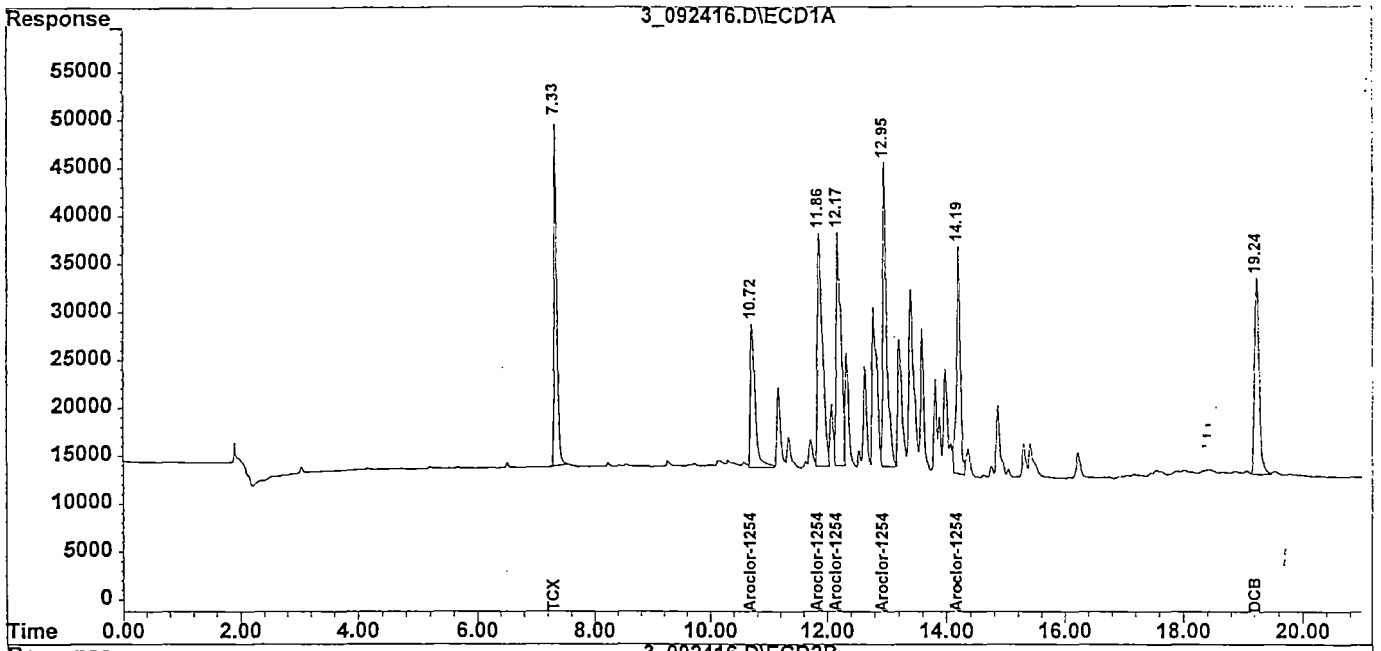
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
3_092415.D XPCBI24.M Tue Sep 25 08:55:01 2001 Page 1

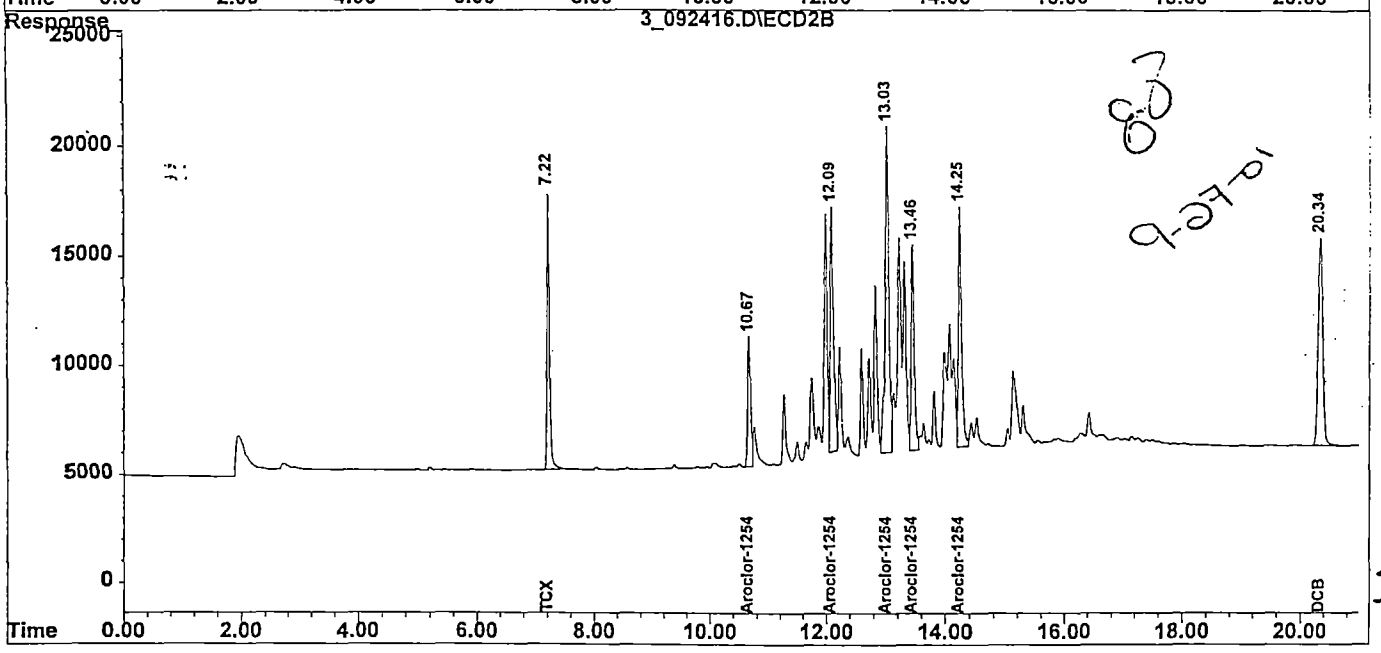
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092416.D\ECD1A.CH Vial: 88
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092416.D\ECD2B.CH
Acq On : 24 Sep 2001 19:38 Operator: BTB
Sample : AR1254L33Q Inst : HP_03
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:44 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B





8-D
9-27-01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092416.D\ECD1A.CH Vial: 88
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092416.D\ECD2B.CH
Acq On : 24 Sep 2001 19:38 Operator: BTB
Sample : AR1254L33Q Inst : HP_03
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:44 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	1189092	368753	21.9	22.8
22)	S DCB	19.24	20.34	1069738	516722	19.0	21.1
	Target Compounds:						
12)	L6 Aroclor-1254	10.72	10.67	850045	203596	420.3	417.8
13)	L6 Aroclor-1254 {2}	11.86	12.10	1468280	453161	391.9	413.0
14)	L6 Aroclor-1254 {3}	12.18	13.03	1324143	621088	386.5	422.3
15)	L6 Aroclor-1254 {4}	12.96	13.46	1409203	322871	357.0	397.7
16)	L6 Aroclor-1254 {5}	14.19	14.25	1116685	427797	349.3	393.7
	Sum Aroclor-1254			6168356	2028512	1905.0	2044.4
	Average Aroclor-1254					380.991	408.889

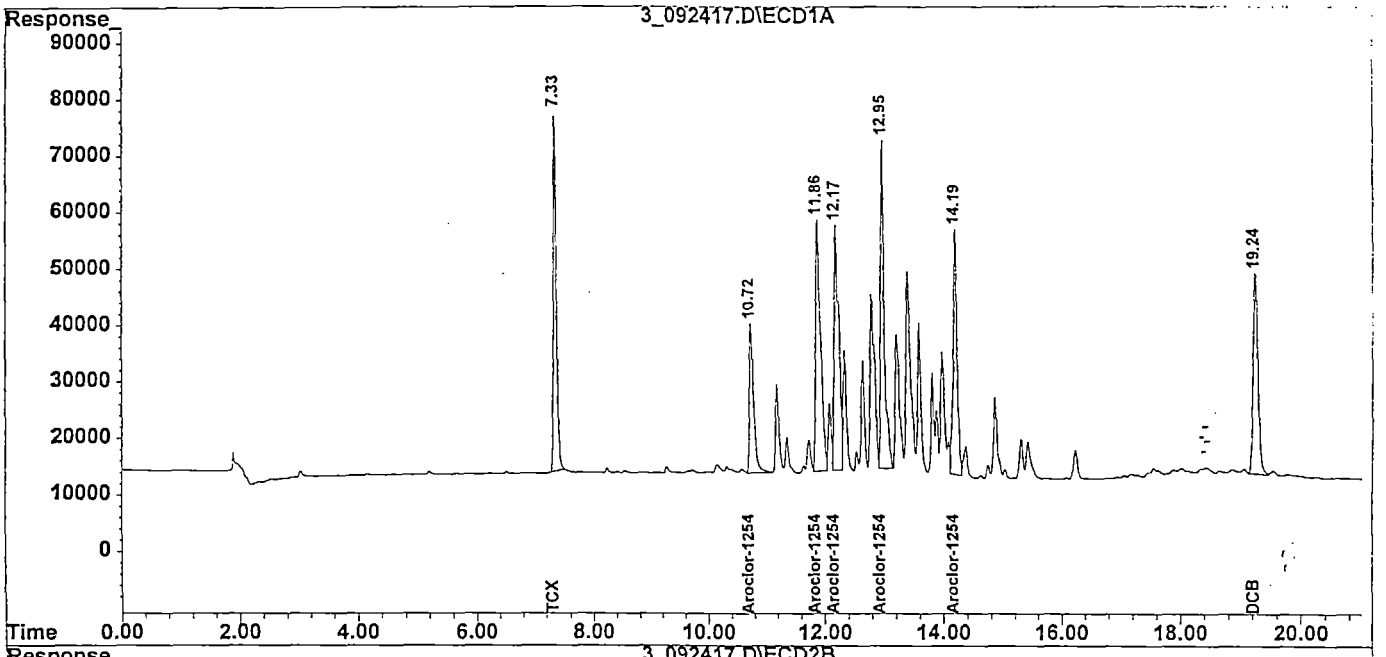
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
3_092416.D XPCBI24.M Tue Sep 25 08:55:19 2001 Page 1

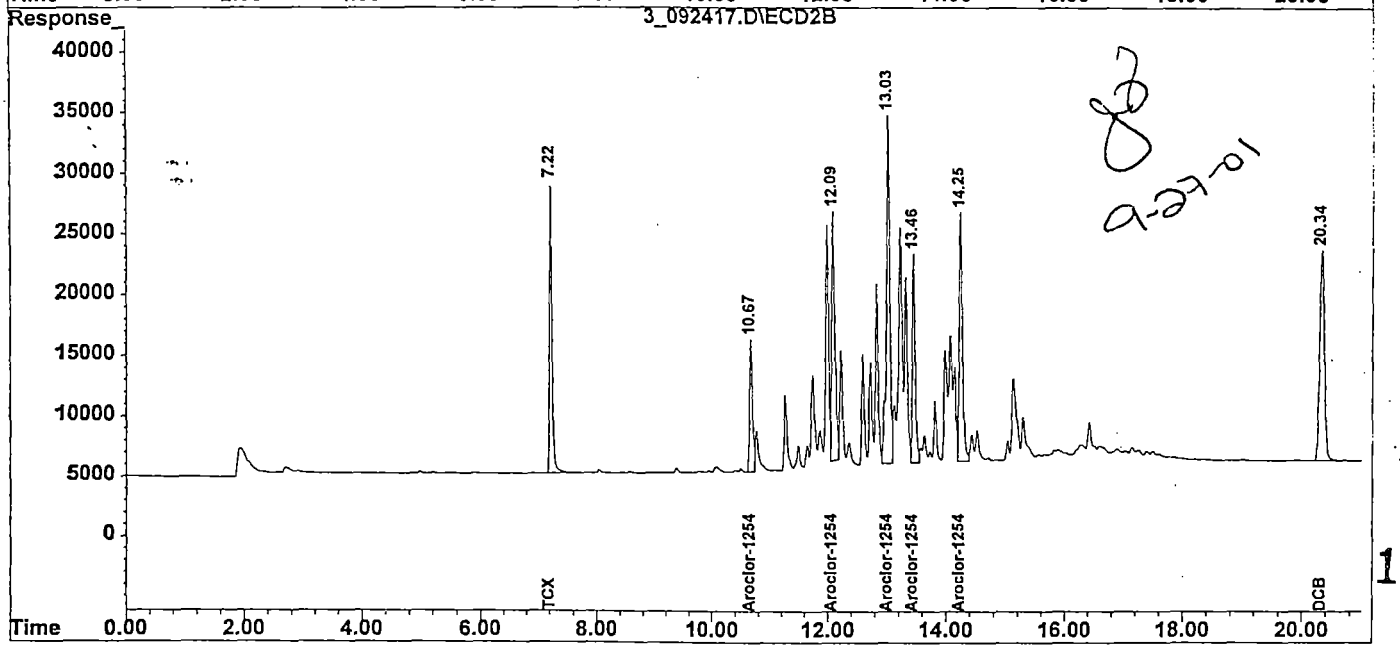
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092417.D\ECD1A.CH Vial: 89
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092417.D\ECD2B.CH
Acq On : 24 Sep 2001 20:04 Operator: BTB
Sample : AR1254L43Q Inst : HP_03
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:45 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B





9-27-01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092417.D\ECD1A.CH Vial: 89
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092417.D\ECD2B.CH
Acq On : 24 Sep 2001 20:04 Operator: BTB
Sample : AR1254L43Q Inst : HP_03
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:45 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	2179615	716039	40.2	44.2
22)	S DCB	19.24	20.34	1940820	948653	34.5	38.7
	Target Compounds:						
12)	L6 Aroclor-1254	10.72	10.67	1424753	368823	704.4	756.8
13)	L6 Aroclor-1254 {2}	11.86	12.10	2584732	808396	689.9	736.7
14)	L6 Aroclor-1254 {3}	12.18	13.03	2357027	1141138	688.0	776.0
15)	L6 Aroclor-1254 {4}	12.96	13.46	2525581	585006	639.8	720.6
16)	L6 Aroclor-1254 {5}	14.19	14.25	2027307	799828	634.1	736.0
	Sum Aroclor-1254			10919400	3703192	3356.2	3726.1
	Average Aroclor-1254					671.244	745.218

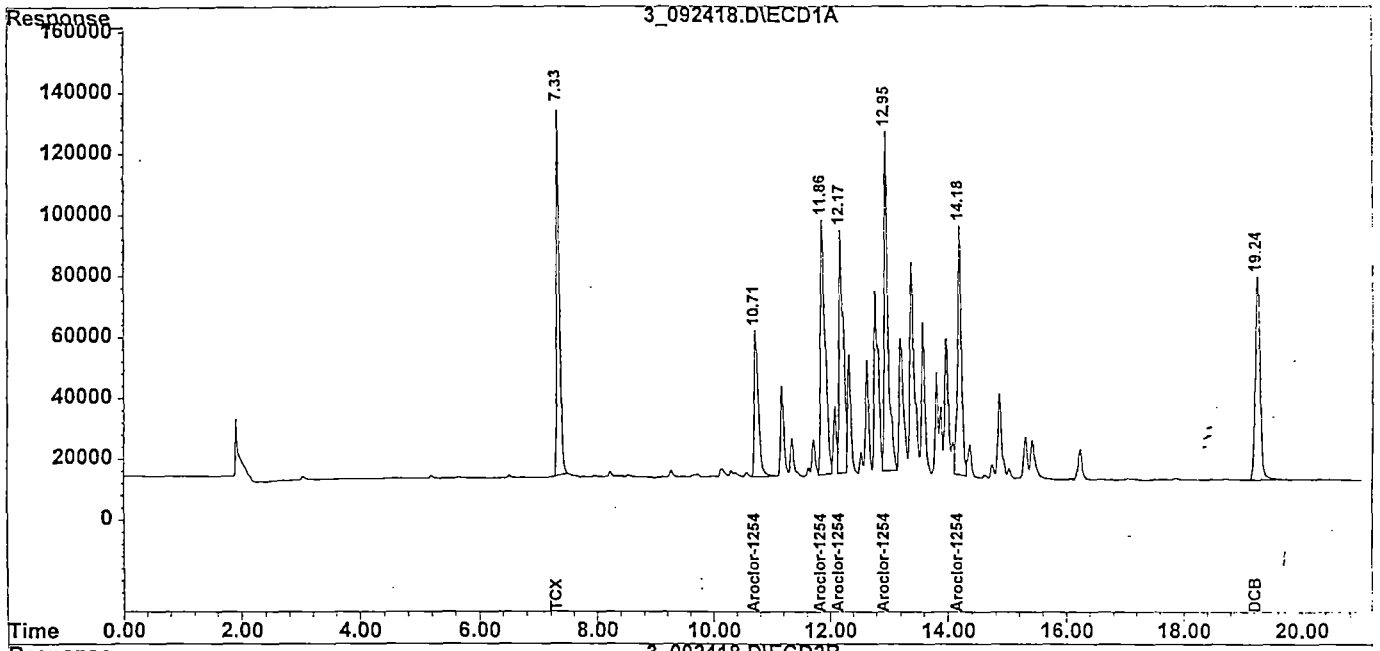
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
3_092417.D XPCBI24.M Tue Sep 25 08:55:37 2001 Page 1

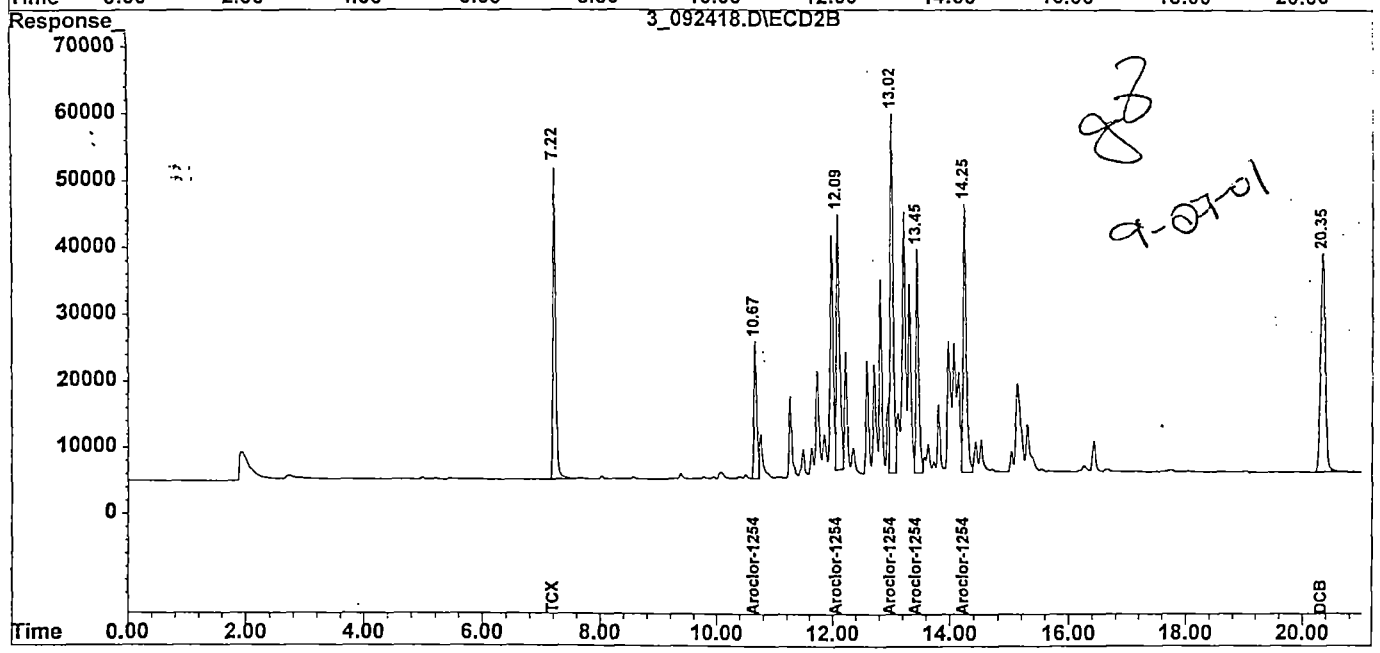
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092418.D\ECD1A.CH Vial: 90
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092418.D\ECD2B.CH
Acq On : 24 Sep 2001 20:30 Operator: BTB
Sample : AR1254L53Q Inst : HP_03
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:46 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B





9-27-01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092418.D\ECD1A.CH Vial: 90
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092418.D\ECD2B.CH
Acq On : 24 Sep 2001 20:30 Operator: BTB
Sample : AR1254L53Q Inst : HP_03
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:46 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	4150290	1420291	76.5 E	87.6 E
22)	S DCB	19.25	20.35	3703349	1820189	65.8	74.3 E
	Target Compounds:						
12)	L6 Aroclor-1254	10.72	10.67	2511925	673261	1241.9 E	1381.5 E
13)	L6 Aroclor-1254 {2}	11.86	12.09	4623662	1474790	1234.1	1344.0 E
14)	L6 Aroclor-1254 {3}	12.17	13.03	4210491	1905700	1229.0	1295.9 E
15)	L6 Aroclor-1254 {4}	12.95	13.46	4728352	1091158	1197.8	1344.1 E
16)	L6 Aroclor-1254 {5}	14.19	14.25	3900790	1532871	1220.1	1410.6 E
	Sum Aroclor-1254			19975220	6677781	6123.0	6776.0
	Average Aroclor-1254					1224.597	1355.199

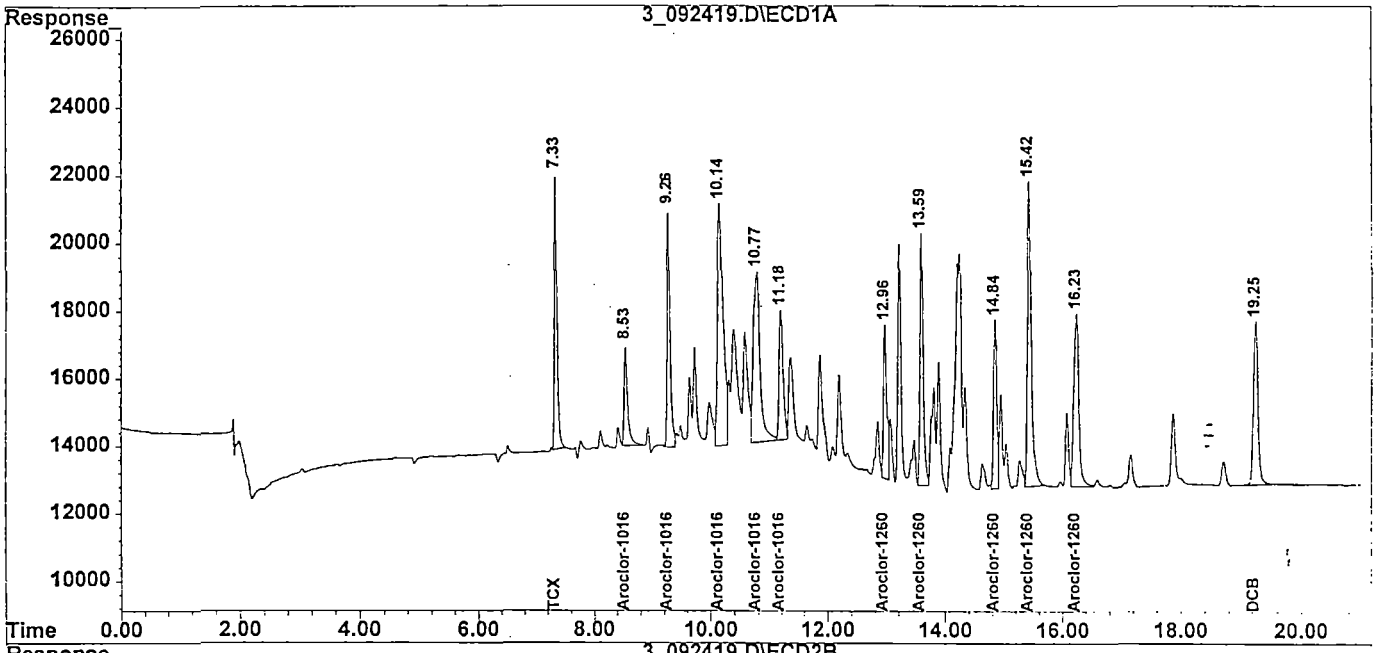
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
3_092418.D XPCBI24.M Tue Sep 25 08:55:55 2001 Page 1

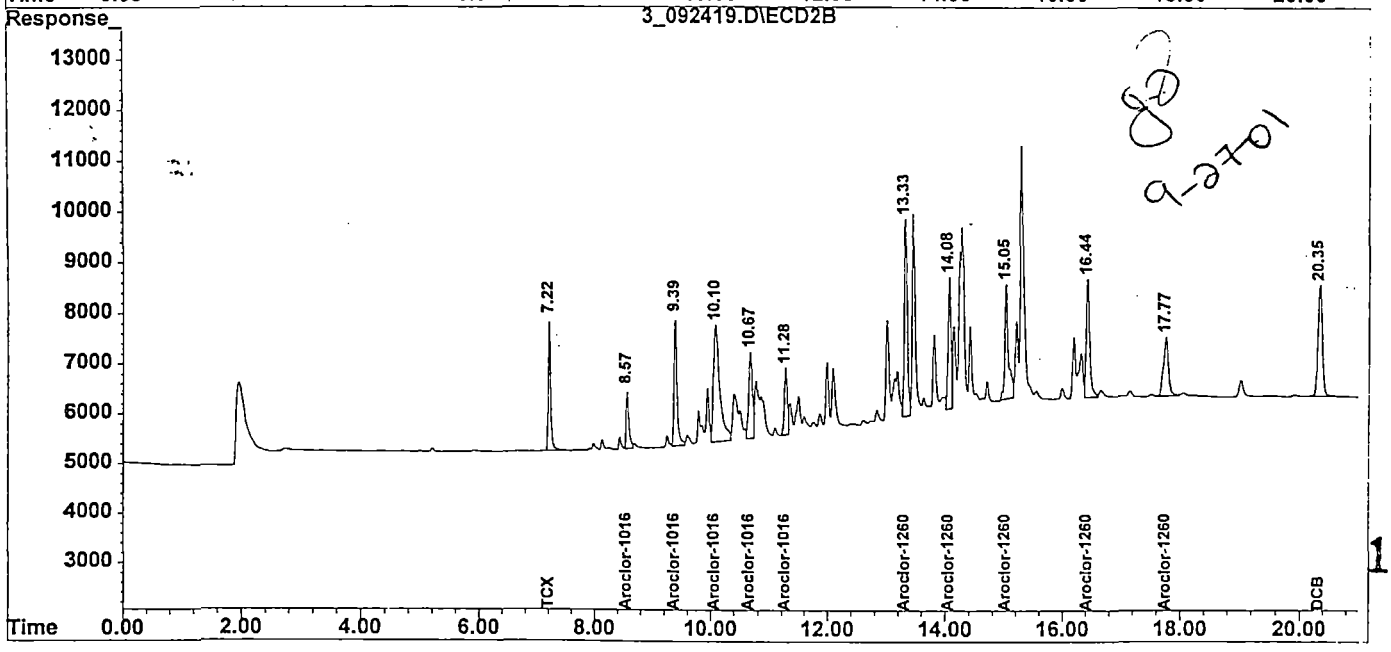
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092419.D\ECD1A.CH Vial: 91
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092419.D\ECD2B.CH
Acq On : 24 Sep 2001 20:55 Operator: BTB
Sample : AR1660L13Q Inst : HP_03
Misc : 5-295-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 9:09 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092419.D\ECD1A.CH Vial: 91
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092419.D\ECD2B.CH
Acq On : 24 Sep 2001 20:55 Operator: BTB
Sample : AR1660L13Q Inst : HP_03
Misc : 5-295-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 9:09 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

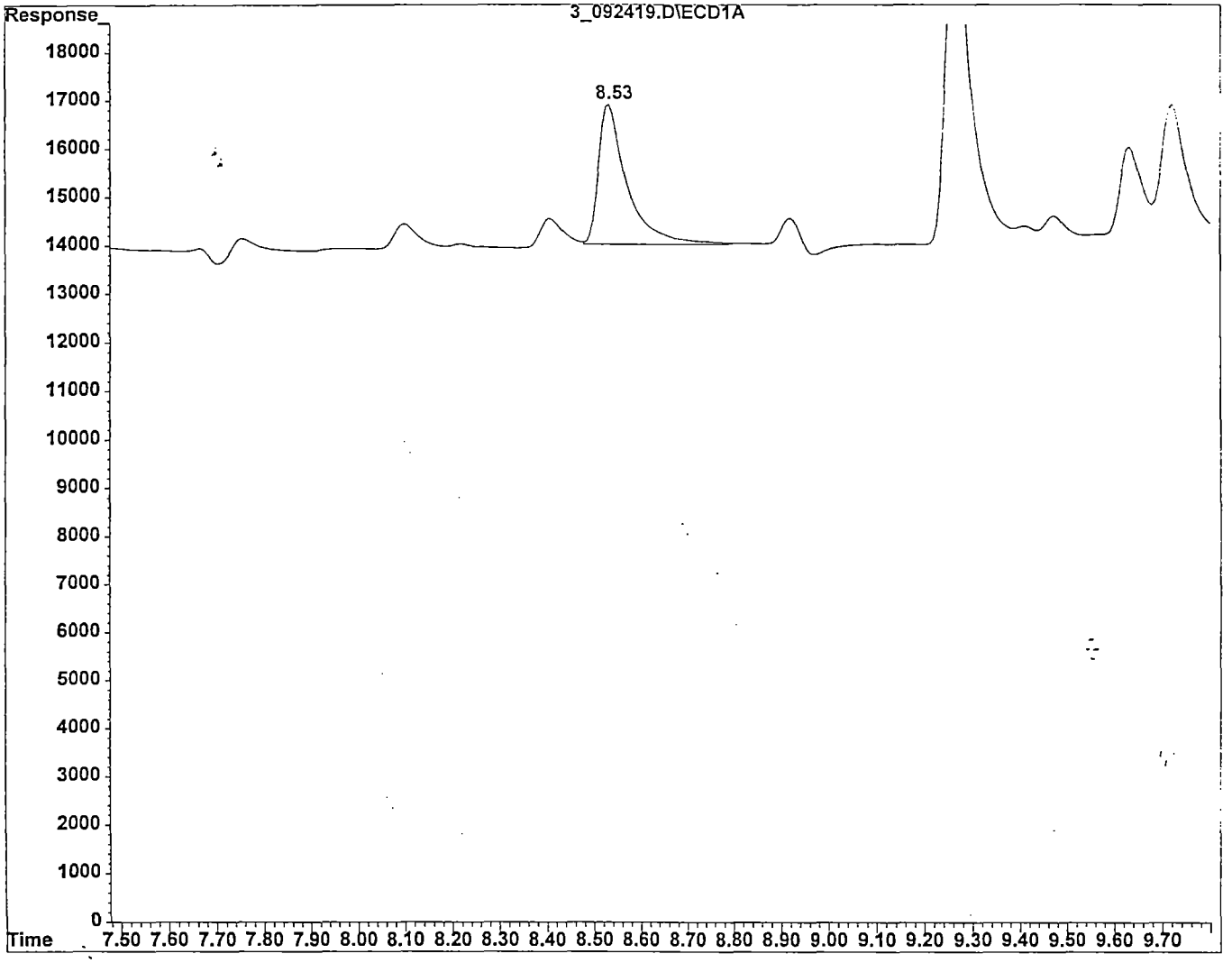
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	248039	74432	4.575	4.593
22)	S DCB	19.25	20.35	248622	117241	4.419	4.784
	Target Compounds:						
2)	L1 Aroclor-1016	8.53	8.58	122348	37823	90.3m BTB 09221	98.3
3)	L1 Aroclor-1016 {2}	9.27	9.39	259320	90801	102.3m	102.6
4)	L1 Aroclor-1016 {3}	10.14	10.10	477055	178360	101.1	105.0
5)	L1 Aroclor-1016 {4}	10.77	10.68	415970	72806	112.6	92.2
6)	L1 Aroclor-1016 {5}	11.18	11.28	188174	50661	95.9	97.1
	Sum Aroclor-1016			1462867	430452	502.2	495.1
	Average Aroclor-1016					100.441	99.022
17)	L7 Aroclor-1260	12.96	13.34	188633	134007	88.3	106.5
18)	L7 Aroclor-1260 {2}	13.59	14.09	288976	85112	89.0m	103.6
19)	L7 Aroclor-1260 {3}	14.84	15.05	187088	97148	90.1	90.0
20)	L7 Aroclor-1260 {4}	15.42	16.45	419209	101320	89.7	91.5
21)	L7 Aroclor-1260 {5}	16.24	17.78	311857	69268	87.6	88.8
	Sum Aroclor-1260			1395761	486855	444.6	480.4
	Average Aroclor-1260					88.928	96.081

145

(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\3\DATA\09_24_01\3_092419.D
Date Acquired: 24 Sep 2001 20:55
Inst: HP_03 Operator ID: BTB
Name: AR1660L13Q
Misc: 5-295-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 9:09 2001 Quant Results File: XPCBI24.RES



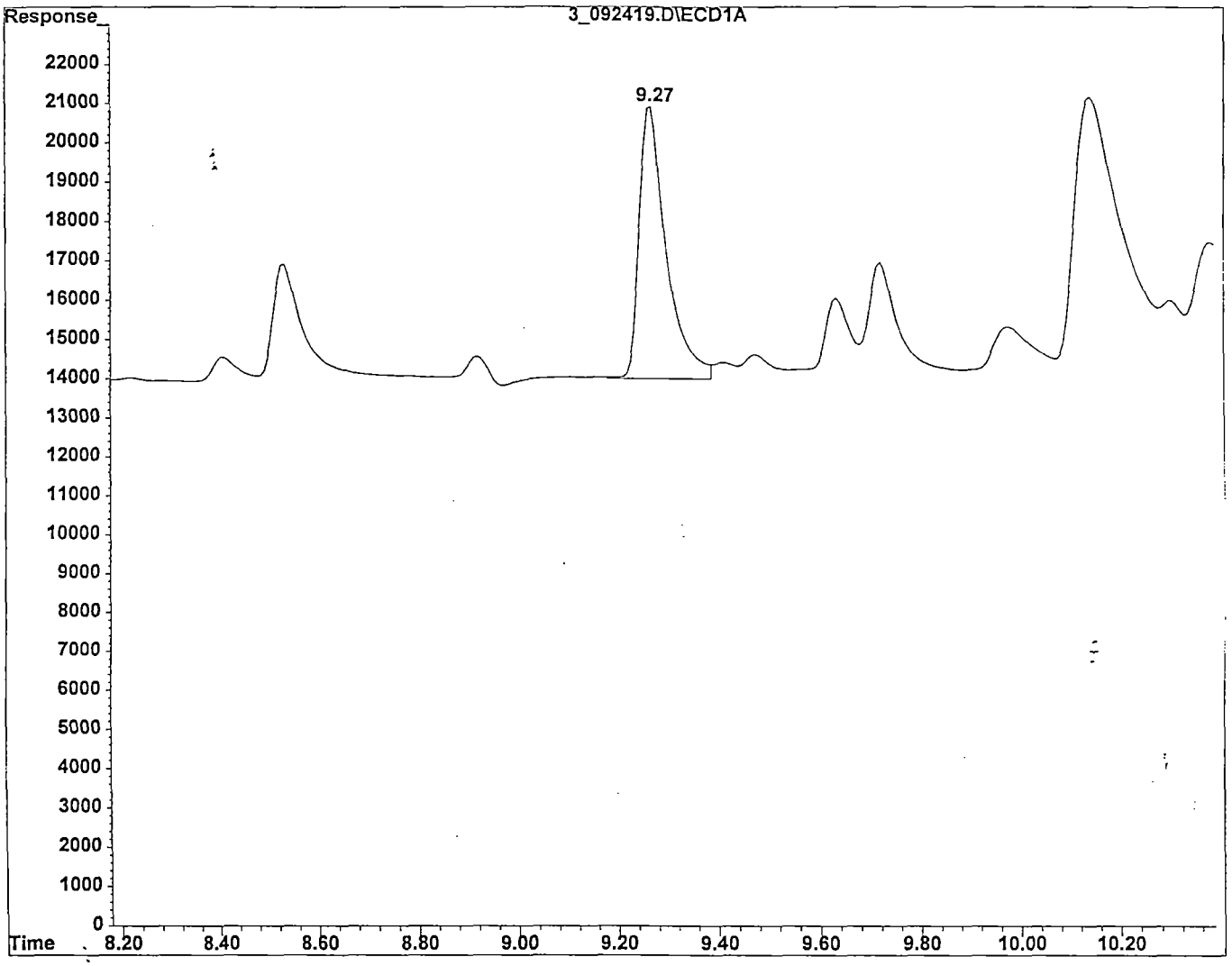
Aroclor-1016 8.53min area: 122348 m BTB 092501

Integration Time Range: 8.48 - 8.80

F:\HPCHEM\HP\3\DATA\09_24_01\3_092419.D
Report generated: Tue Sep 25 09:16:02 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_24_01\3_092419.D
Date Acquired: 24 Sep 2001 20:55
Inst: HP_03 Operator ID: BTB
Name: AR1660L13Q
Misc: 5-295-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 9:09 2001 Quant Results File: XPCBI24.RES



Aroclor-1016 {2} 9.27min area: 259320 m

Integration Time Range: 9.18 - 9.39

BTB
092501

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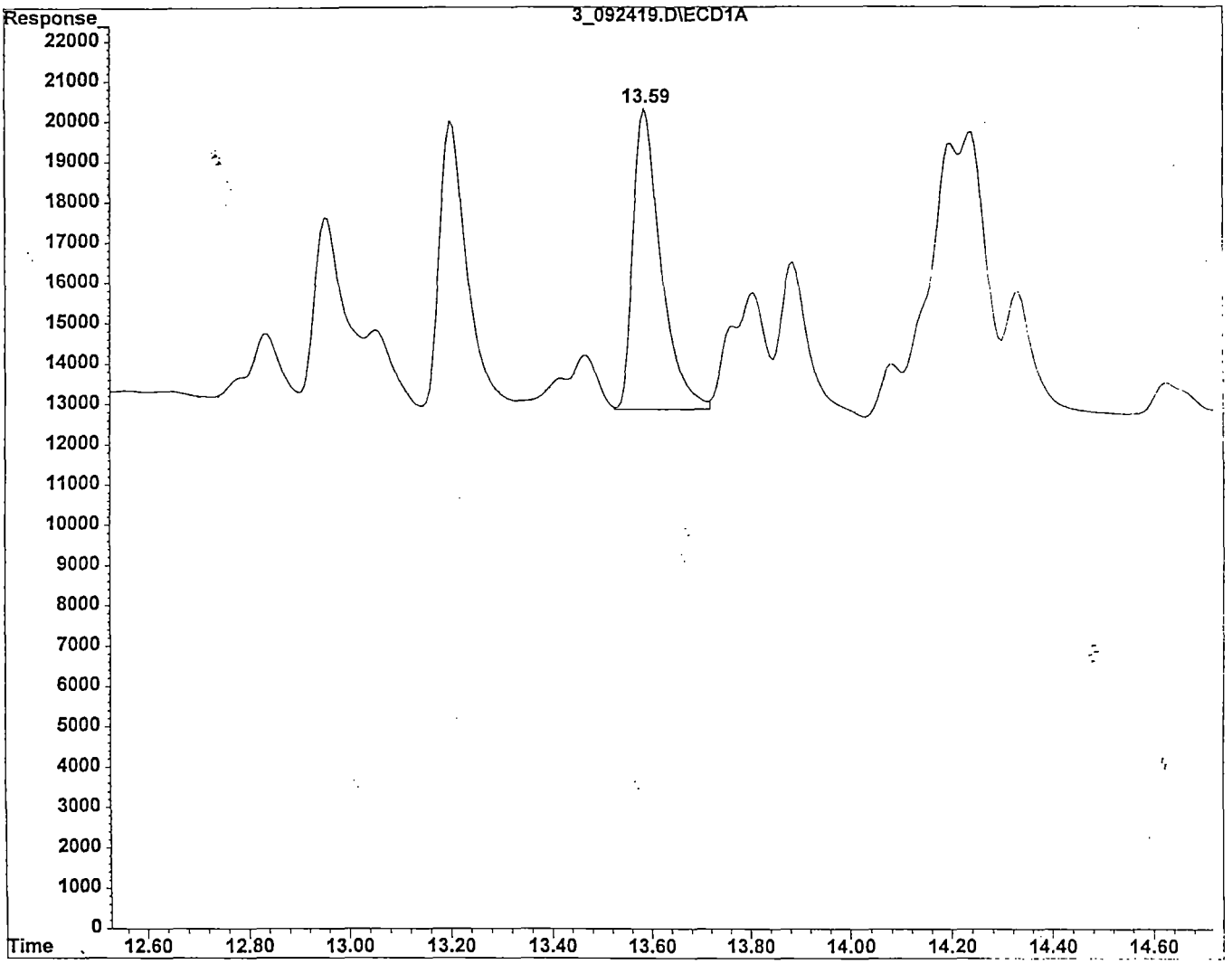
F:\HPCHEM\HP\3\DATA\09_24_01\3_092419.D
Report generated: Tue Sep 25 09:16:03 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_24_01\3_092419.D
Date Acquired: 24 Sep 2001 20:55
Inst: HP_03 Operator ID: BTB
Name: AR1660L13Q
Misc: 5-295-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 9:09 2001 Quant Results File: XPCBI24.RES



Aroclor-1260 {2} 13.59min area: 288976 m

Integration Time Range: 13.53 - 13.72

BTB
092501

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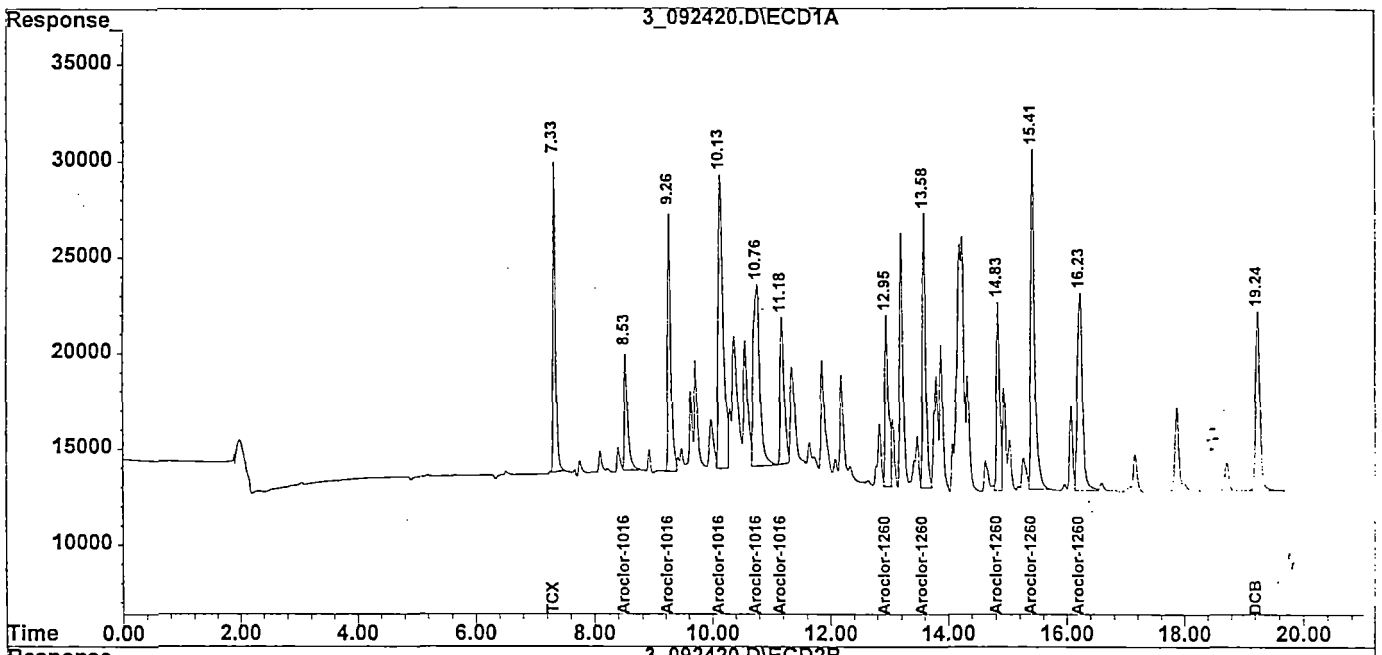
F:\HPCHEM\HP\3\DATA\09_24_01\3_092419.D
Report generated: Tue Sep 25 09:16:03 2001

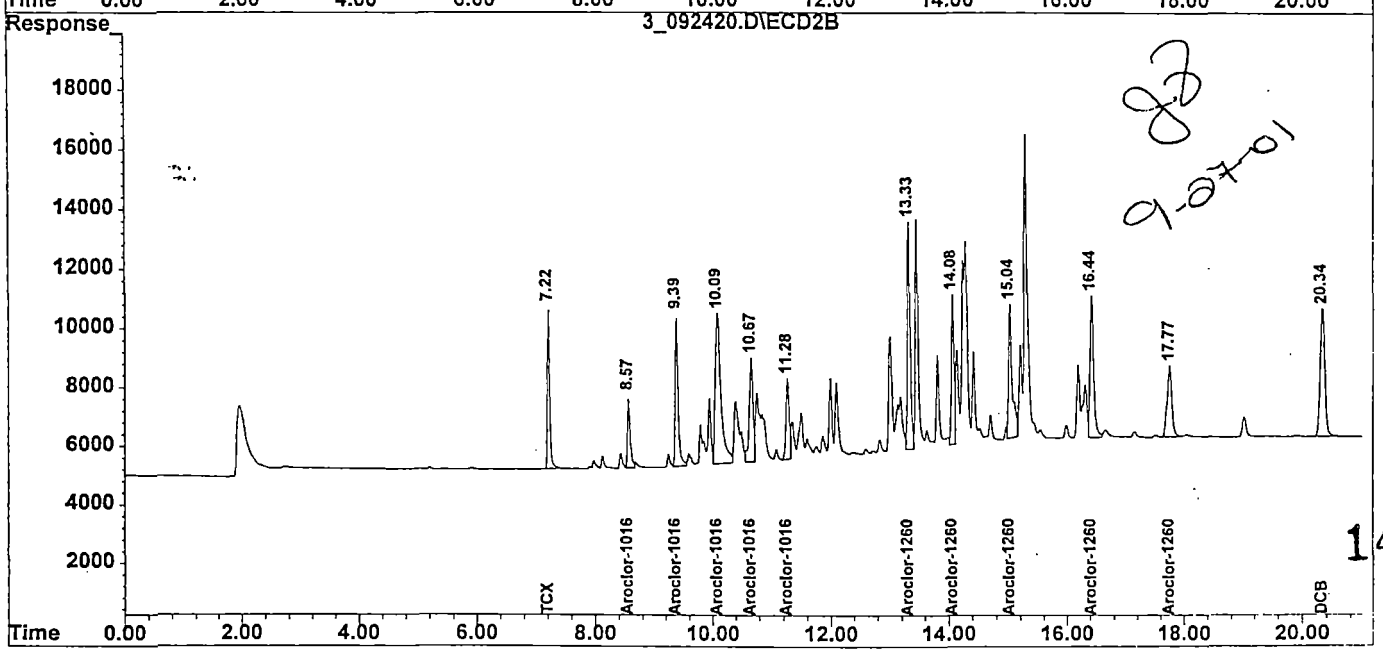
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092420.D\ECD1A.CH Vial: 92
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092420.D\ECD2B.CH
Acq On : 24 Sep 2001 21:21 Operator: BTB
Sample : AR1660L23Q Inst : HP_03
Misc : 5-294-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 9:09 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B





87
9-07-01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092420.D\ECD1A.CH Vial: 92
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092420.D\ECD2B.CH
Acq On : 24 Sep 2001 21:21 Operator: BTB
Sample : AR1660L23Q Inst : HP_03
Misc : 5-294-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 9:09 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	493109	149822	9.095	9.244
22)	S DCB	19.24	20.35	490963	230659	8.727	9.413
	Target Compounds:						
2)	L1 Aroclor-1016	8.53	8.57	237072	76318	174.9m BTB	198.4
3)	L1 Aroclor-1016 {2}	9.26	9.39	490048	177009	193.3m 09/25/01	199.9
4)	L1 Aroclor-1016 {3}	10.13	10.09	913607	351326	193.6	206.9
5)	L1 Aroclor-1016 {4}	10.77	10.67	731029	157227	198.0	199.0
6)	L1 Aroclor-1016 {5}	11.18	11.28	368779	100059	187.9	191.7
	Sum Aroclor-1016			2740535	861939	947.7	995.9
	Average Aroclor-1016					189.549	199.177
17)	L7 Aroclor-1260	12.95	13.33	368137	253622	172.4	201.5
18)	L7 Aroclor-1260 {2}	13.58	14.08	553560	159778	170.4m	194.6
19)	L7 Aroclor-1260 {3}	14.84	15.04	367224	192861	176.8	178.6
20)	L7 Aroclor-1260 {4}	15.42	16.44	817055	203879	174.8	184.2
21)	L7 Aroclor-1260 {5}	16.23	17.77	620354	140323	174.3	179.8
	Sum Aroclor-1260			2726329	950464	868.6	938.7
	Average Aroclor-1260					173.728	187.747

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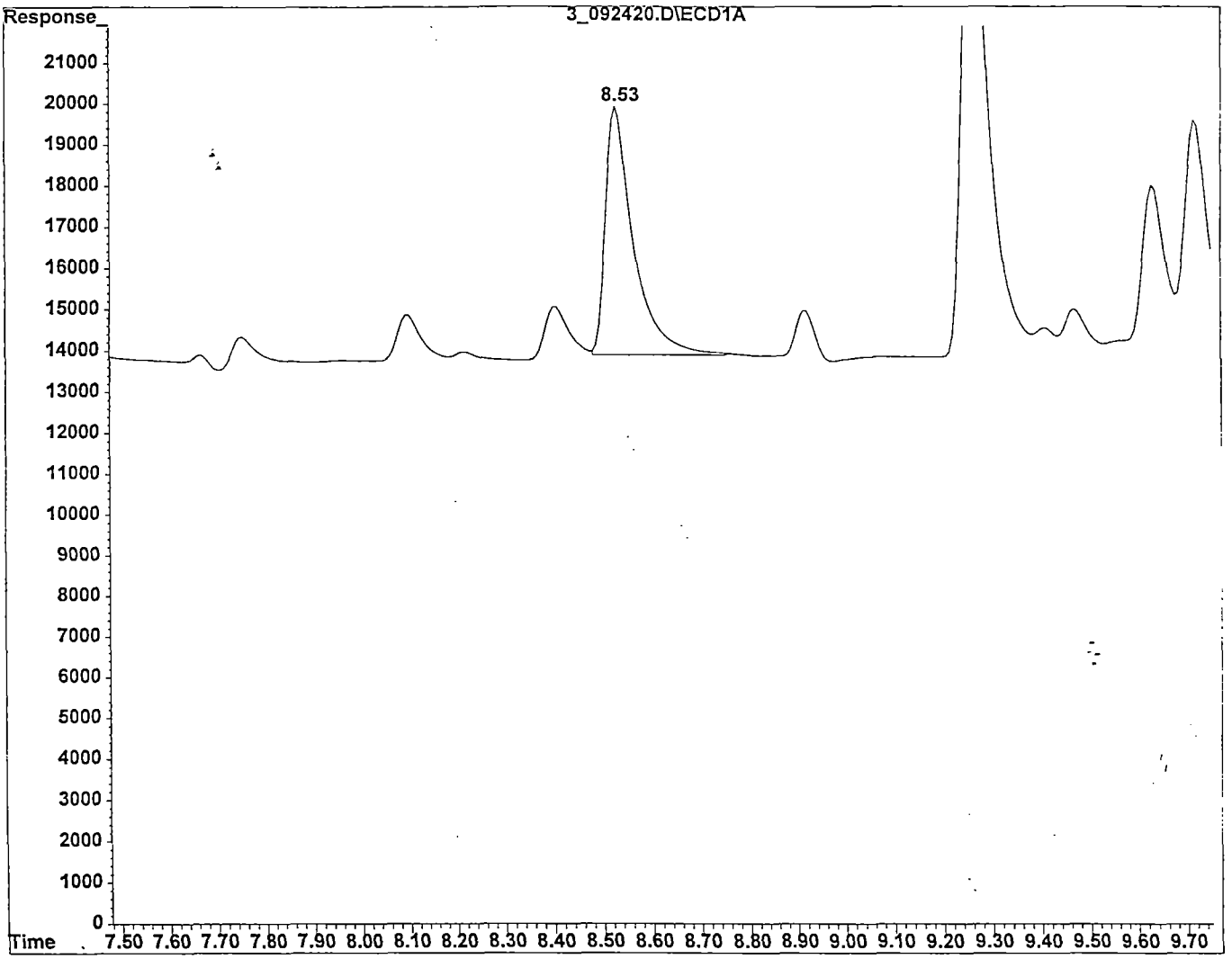
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_24_01\3_092420.D
Date Acquired: 24 Sep 2001 21:21
Inst: HP_03 Operator ID: BTB
Name: AR1660L23Q
Misc: 5-294-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 9:09 2001 Quant Results File: XPCBI24.RES



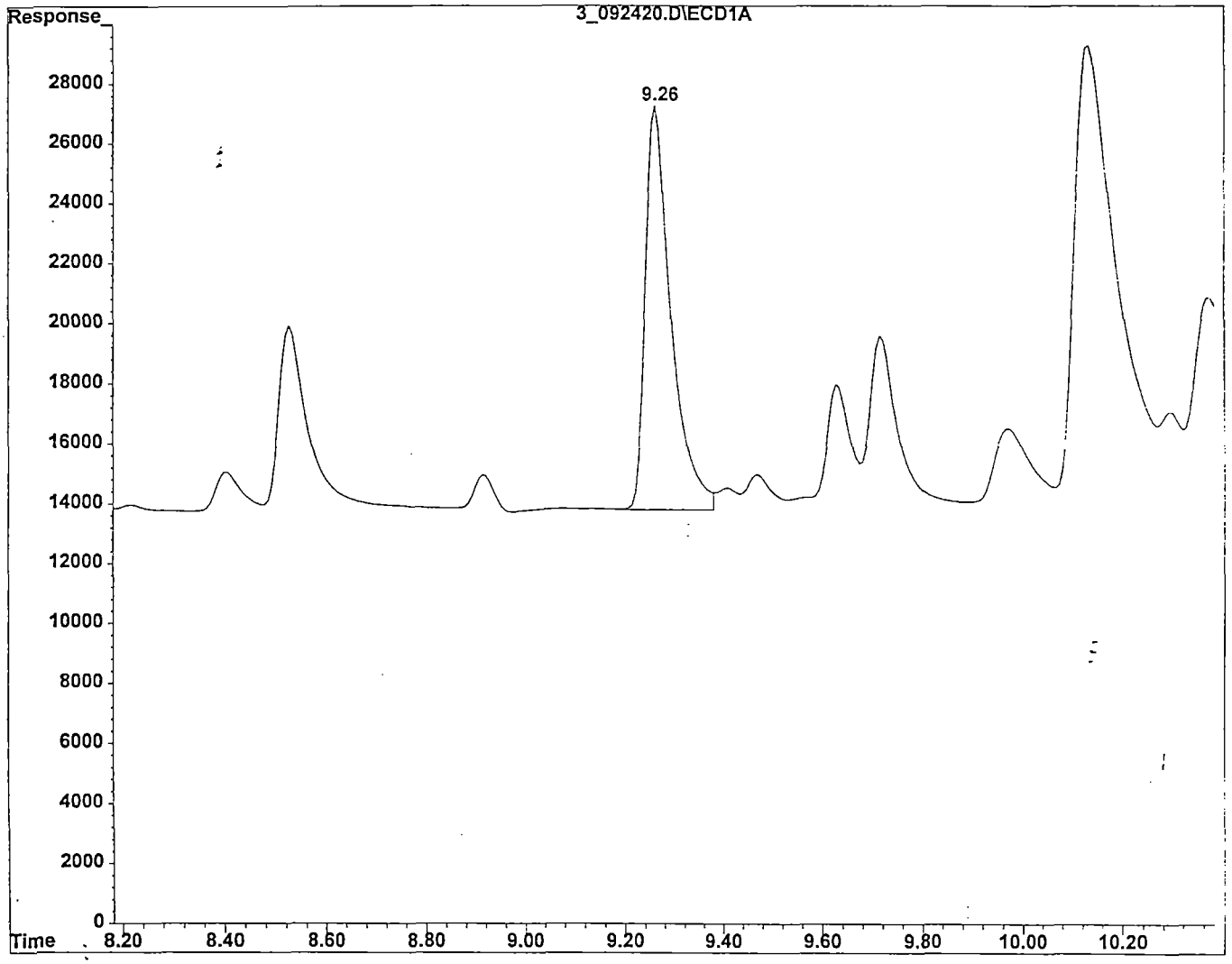
Aroclor-1016 8.53min area: 237072 m

BTB

Integration Time Range: 8.48 - 8.75 092501

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_24_01\3_092420.D
Date Acquired: 24 Sep 2001 21:21
Inst: HP_03 Operator ID: BTB
Name: AR1660L23Q
Misc: 5-294-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 9:09 2001 Quant Results File: XPCBI24.RES



Aroclor-1016 {2} 9.26min area: 490048 m

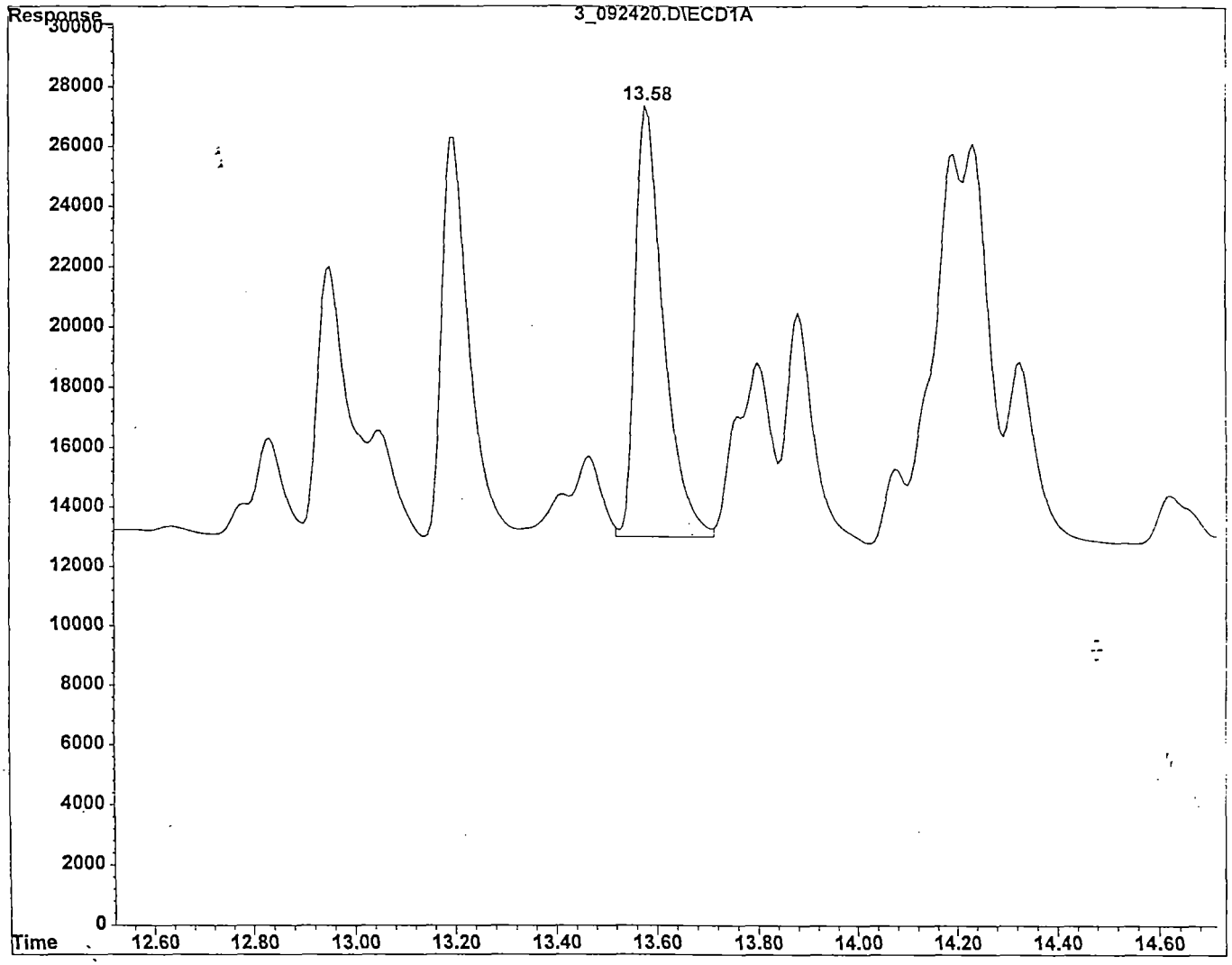
BTB 092501

Integration Time Range: 9.18 - 9.38

F:\HPCHEM\HP\3\DATA\09_24_01\3_092420.D
Report generated: Tue Sep 25 09:16:05 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_24_01\3_092420.D
Date Acquired: 24 Sep 2001 21:21
Inst: HP_03 Operator ID: BTB
Name: AR1660L23Q
Misc: 5-294-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 9:09 2001 Quant Results File: XPCBI24.RES



Aroclor-1260 {2} 13.58min area: 553560 m

BTB 092501

Integration Time Range: 13.52 - 13.71

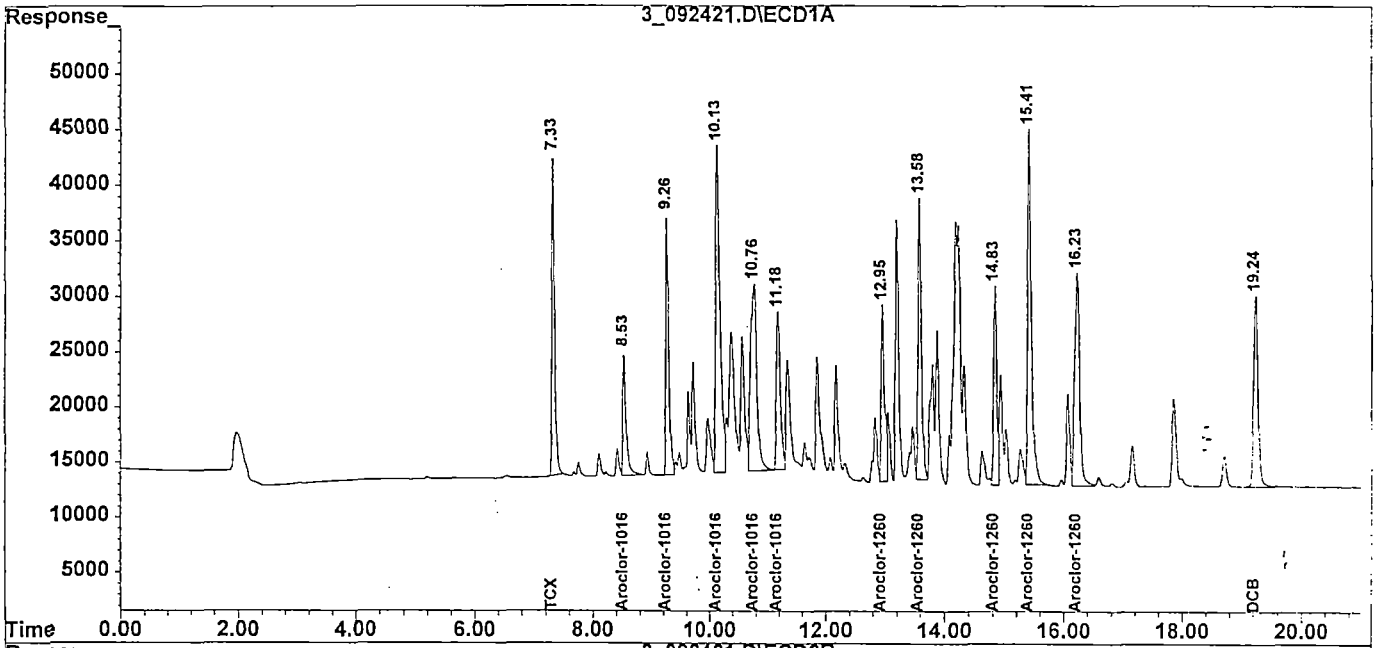
F:\HPCHEM\HP\3\DATA\09_24_01\3_092420.D
Report generated: Tue Sep 25 09:16:06 2001

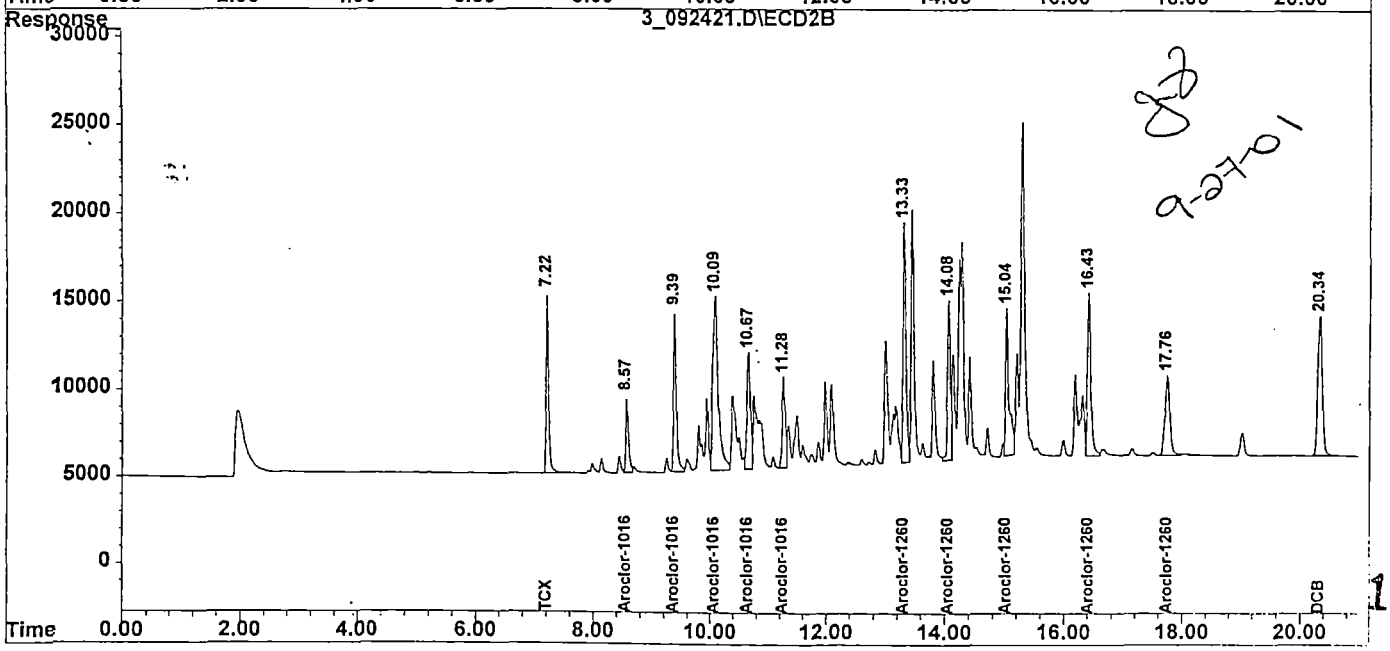
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092421.D\ECD1A.CH Vial: 93
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092421.D\ECD2B.CH
Acq On : 24 Sep 2001 21:47 Operator: BTB
Sample : AR1660L33Q Inst : HP_03
Misc : 5-293-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:49 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B





9-27-01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092421.D\ECD1A.CH Vial: 93
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092421.D\ECD2B.CH
Acq On : 24 Sep 2001 21:47 Operator: BTB
Sample : AR1660L33Q Inst : HP_03
Misc : 5-293-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:49 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	924746	289196	17.1	17.8
22)	S DCB	19.24	20.34	897015	428799	15.9	17.5
	Target Compounds:						
2)	L1 Aroclor-1016	8.53	8.57	455354	140573	336.0	365.4
3)	L1 Aroclor-1016 {2}	9.26	9.39	856386	319739	337.8	361.1
4)	L1 Aroclor-1016 {3}	10.14	10.09	1660502	639235	351.9	376.4
5)	L1 Aroclor-1016 {4}	10.77	10.67	1274126	279194	345.0	353.4
6)	L1 Aroclor-1016 {5}	11.18	11.28	704964	185431	359.3m BTB	355.3
	Sum Aroclor-1016			4951332	1564171	1730.0 09/25/01	1811.6
	Average Aroclor-1016					345.999	362.318
17)	L7 Aroclor-1260	12.95	13.33	667051	451389	312.4	358.7
18)	L7 Aroclor-1260 {2}	13.58	14.08	970068	289285	298.6m	352.2
19)	L7 Aroclor-1260 {3}	14.84	15.04	679852	362310	327.3	335.6
20)	L7 Aroclor-1260 {4}	15.41	16.44	1489510	384661	318.6	347.5
21)	L7 Aroclor-1260 {5}	16.23	17.77	1153615	268793	324.1	344.4
	Sum Aroclor-1260			4960096	1756440	1581.0	1738.5
	Average Aroclor-1260					316.198	347.698

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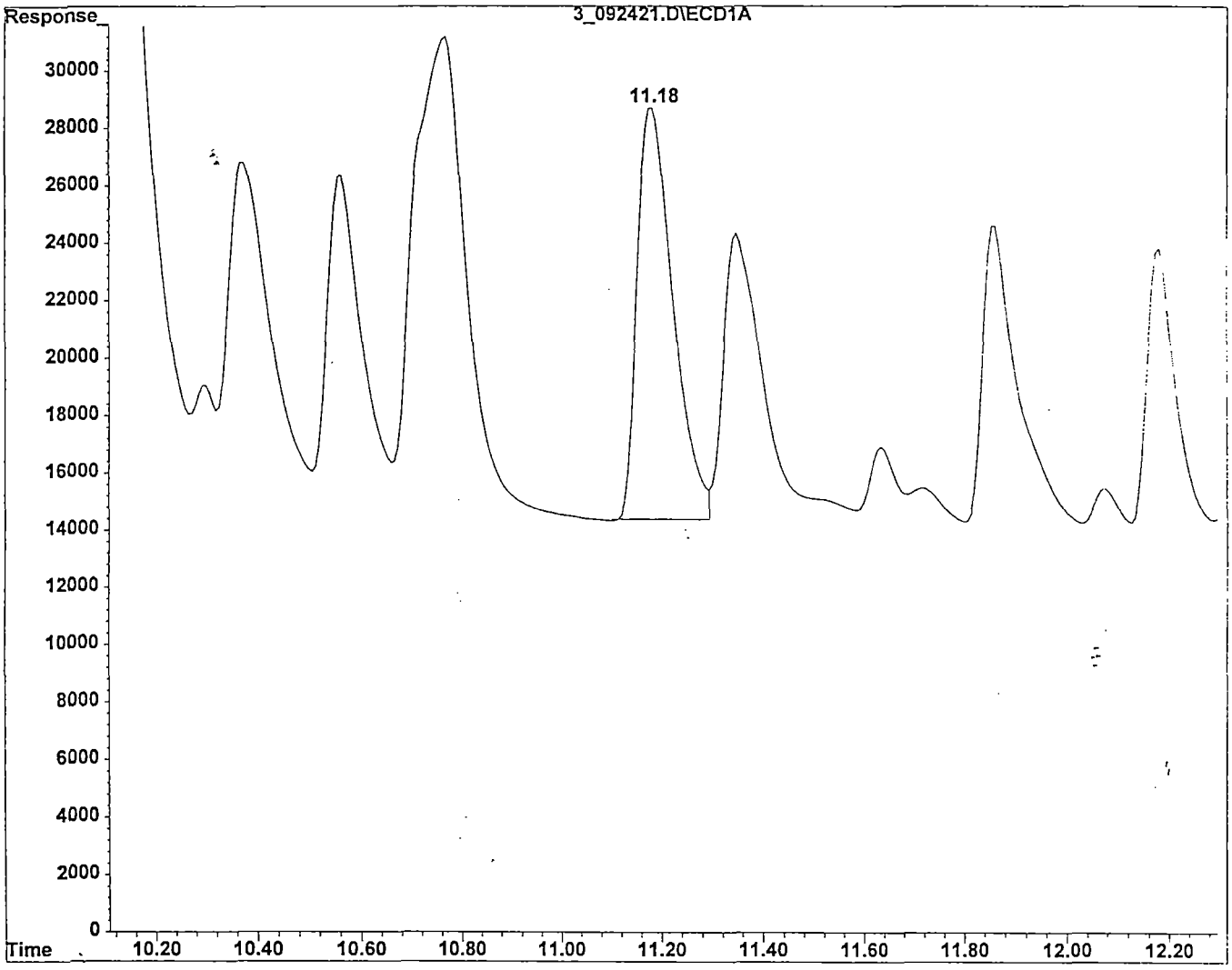
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_24_01\3_092421.D
Date Acquired: 24 Sep 2001 21:47
Inst: HP_03 Operator ID: BTB
Name: AR1660L33Q
Misc: 5-293-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:49 2001 Quant Results File: XPCBI24.RES



Aroclor-1016 {5} 11.18min area: 704964 m

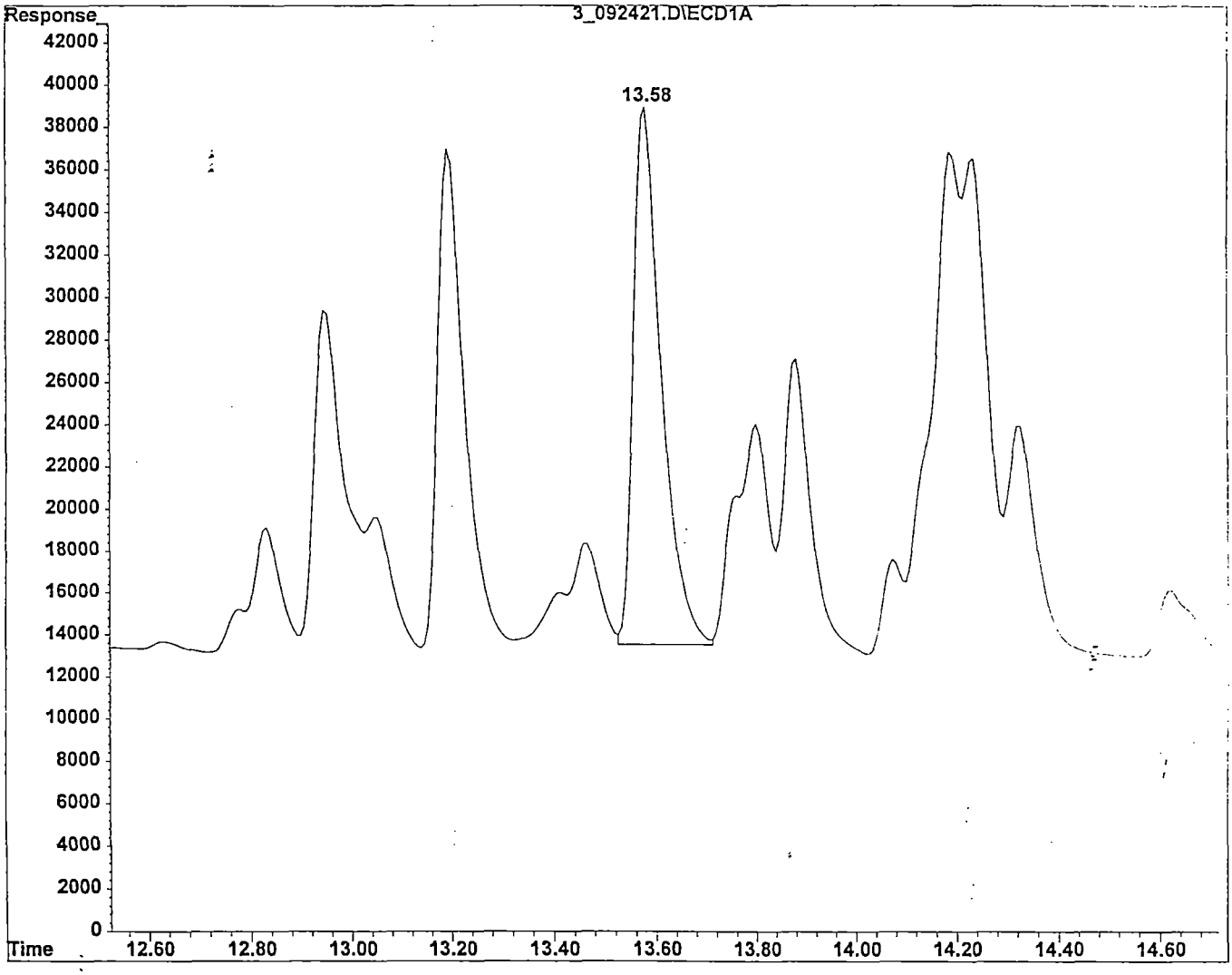
Integration Time Range: 11.11 - 11.30

BTB
092501

F:\HPCHEM\HP\3\DATA\09_24_01\3_092421.D
Report generated: Tue Sep 25 09:28:03 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_24_01\3_092421.D
Date Acquired: 24 Sep 2001 21:47
Inst: HP_03 Operator ID: BTB
Name: AR1660L33Q
Misc: 5-293-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:49 2001 Quant Results File: XPCBI24.RES



Aroclor-1260 {2} 13.58min area: 970068 m

BTB 09/25/1

Integration Time Range: 13.52 - 13.71

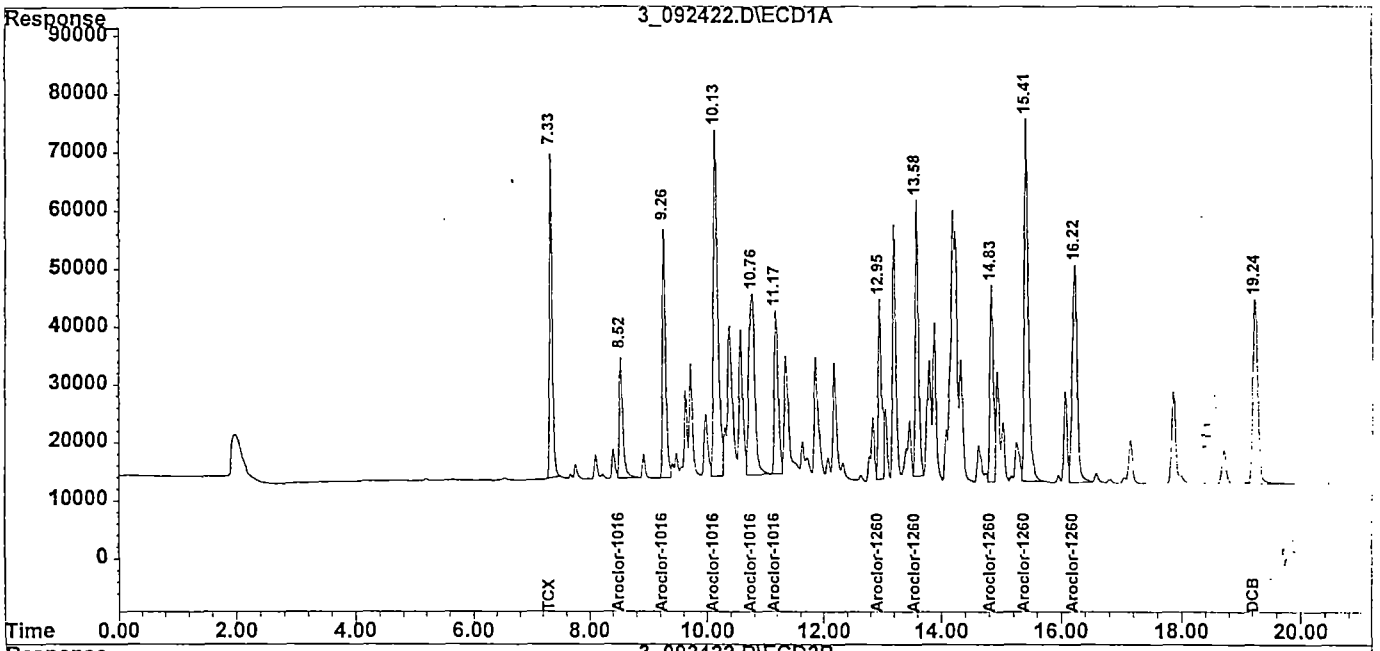
F:\HPCHEM\HP\3\DATA\09_24_01\3_092421.D
Report generated: Tue Sep 25 09:28:04 2001

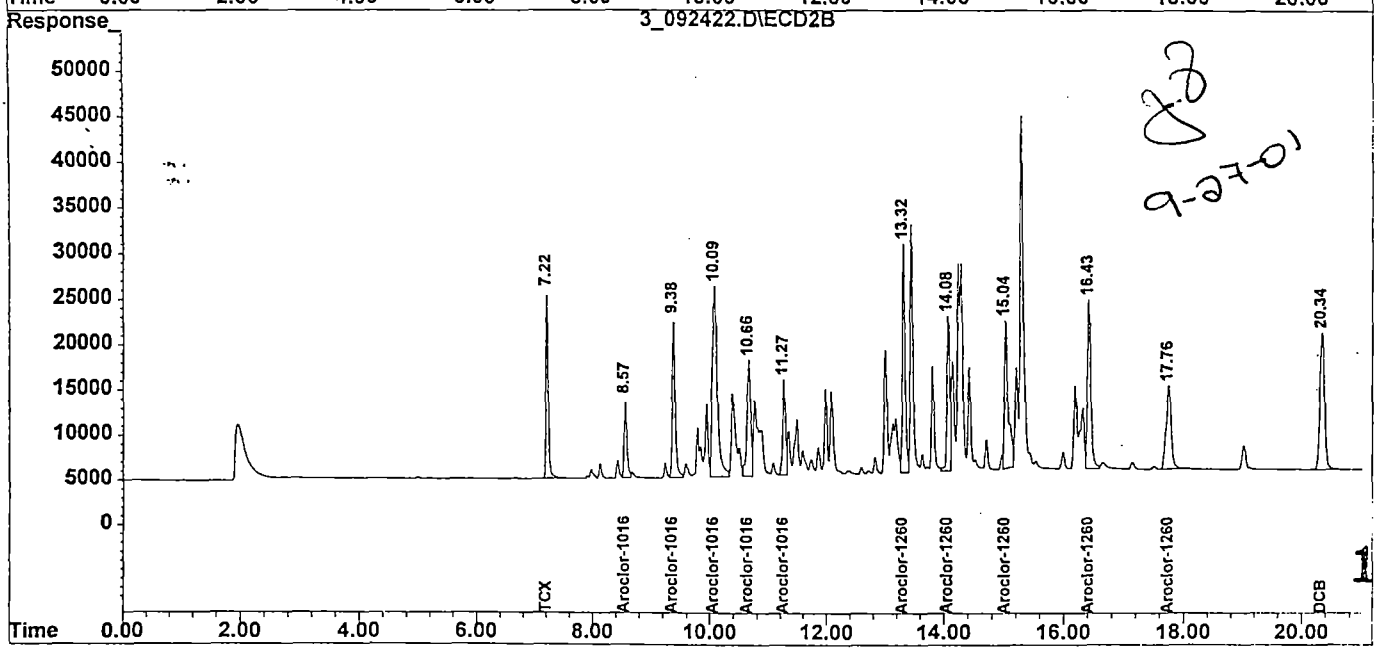
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092422.D\ECD1A.CH Vial: 94
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092422.D\ECD2B.CH
Acq On : 24 Sep 2001 22:12 Operator: BTB
Sample : AR1660L43Q Inst : HP_03
Misc : 5-292-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:50 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B





9-27-01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092422.D\ECD1A.CH Vial: 94
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092422.D\ECD2B.CH
Acq On : 24 Sep 2001 22:12 Operator: BTB
Sample : AR1660L43Q Inst : HP_03
Misc : 5-292-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:50 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	1806239	582752	33.3	36.0
22)	S DCB	19.24	20.34	1727018	837353	30.7	34.2
	Target Compounds:						
2)	L1 Aroclor-1016	8.53	8.57	855030	270938	630.9	704.2
3)	L1 Aroclor-1016 {2}	9.26	9.39	1585096	608551	625.2	687.3
4)	L1 Aroclor-1016 {3}	10.13	10.09	3088201	1221601	654.6	719.3
5)	L1 Aroclor-1016 {4}	10.76	10.66	2315196	571726	626.9	723.7
6)	L1 Aroclor-1016 {5}	11.17	11.27	1357932	370457	692.1m BTB 092501	709.8
	Sum Aroclor-1016			9201455	3043274	3229.6	3544.3
Average Aroclor-1016						645.920	708.868
17)	L7 Aroclor-1260	12.95	13.33	1263781	836138	591.8	664.4
18)	L7 Aroclor-1260 {2}	13.57	14.08	1796360	546905	553.0m	665.9
19)	L7 Aroclor-1260 {3}	14.83	15.04	1307910	717875	629.6	664.9
20)	L7 Aroclor-1260 {4}	15.41	16.44	2872267	760175	614.4	686.7
21)	L7 Aroclor-1260 {5}	16.22	17.76	2232558	542244	627.2	694.9
	Sum Aroclor-1260			9472875	3403338	3016.0	3376.9
Average Aroclor-1260						603.208	675.384

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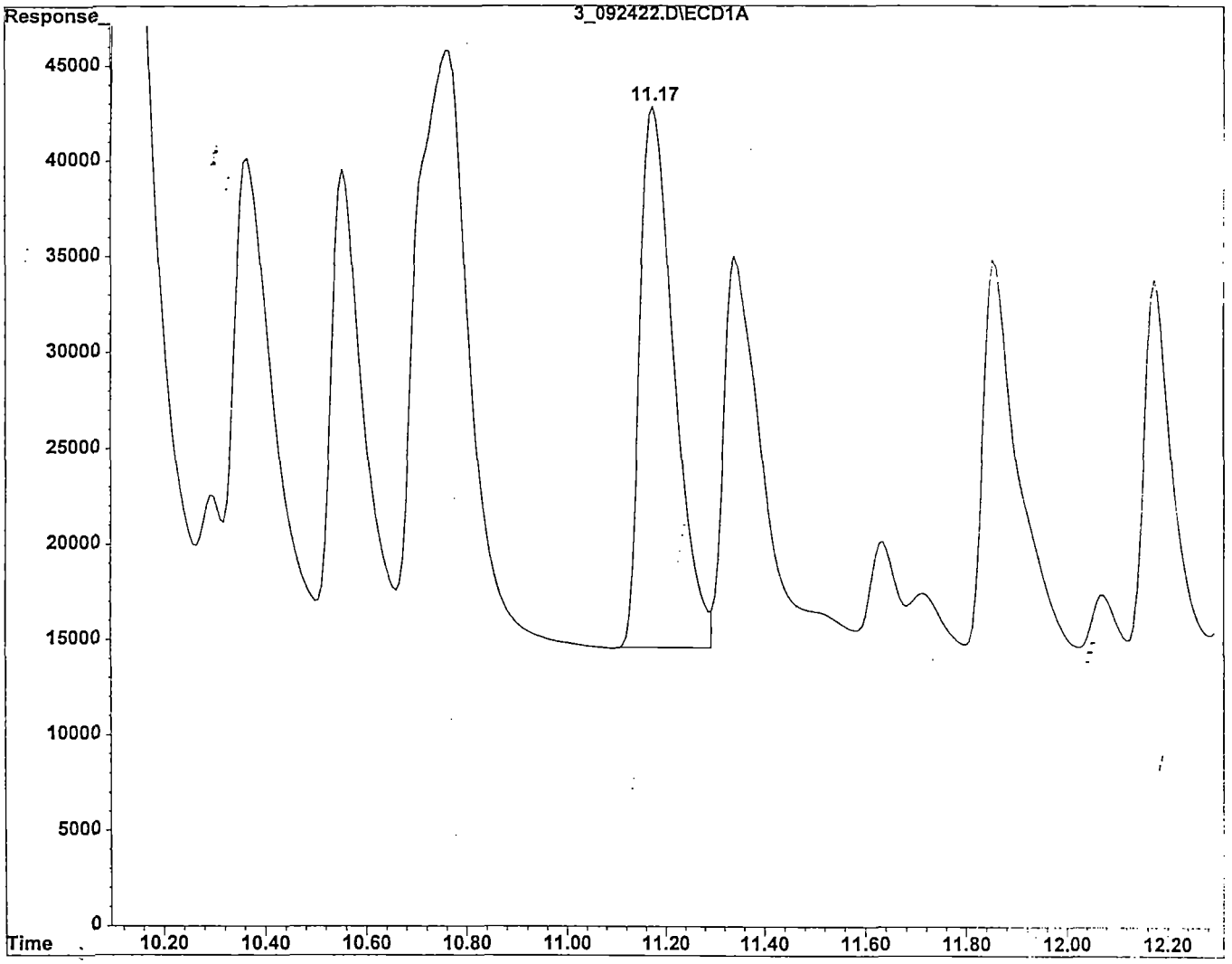
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_24_01\3_092422.D
Date Acquired: 24 Sep 2001 22:12
Inst: HP_03 Operator ID: BTB
Name: AR1660L43Q
Misc: 5-292-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:50 2001 Quant Results File: XPCBI24.RES



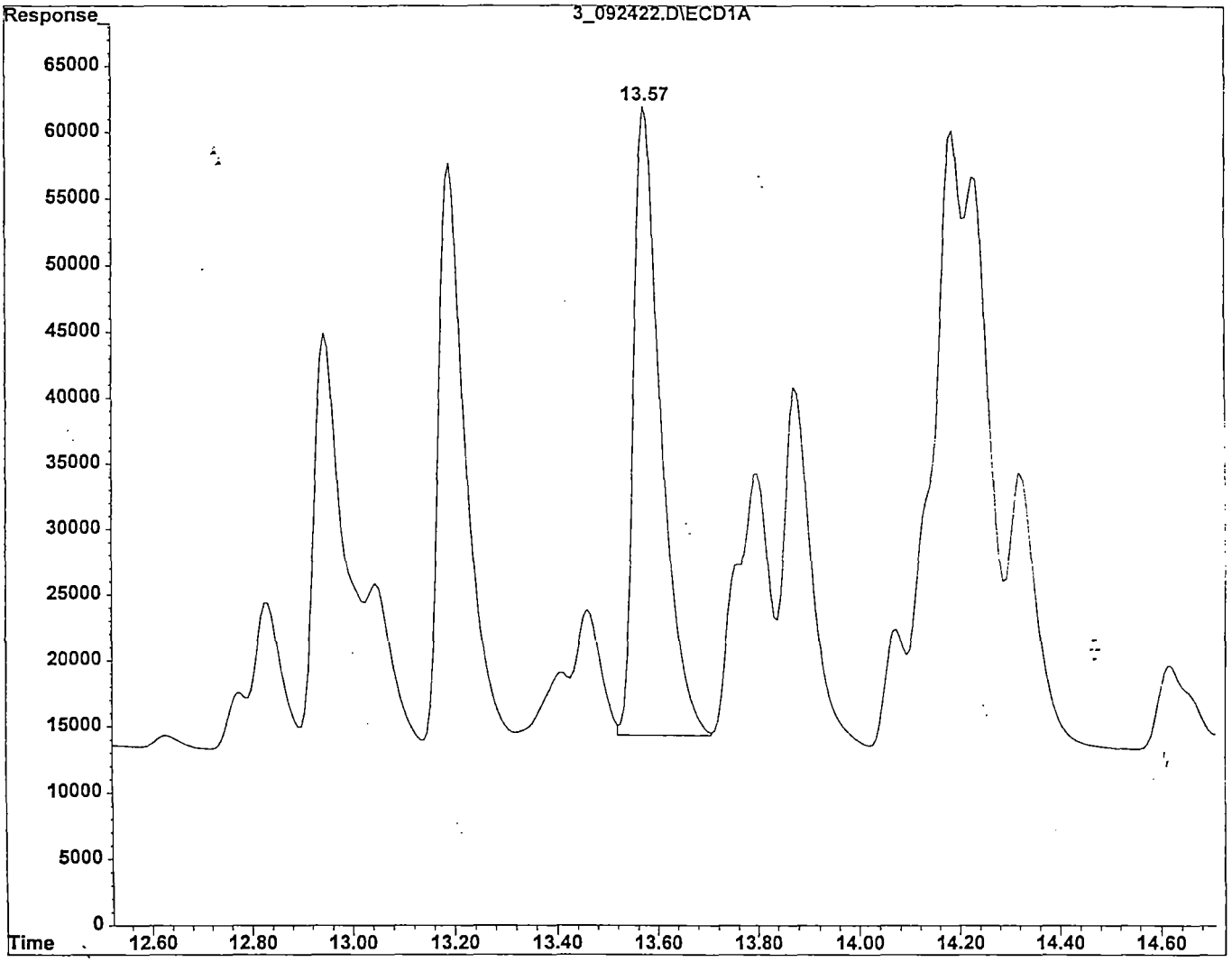
Aroclor-1016 {5} 11.17min area: 1357932 m
BTB 092501

Integration Time Range: 11.10 - 11.29

F:\HPCHEM\HP\3\DATA\09_24_01\3_092422.D
Report generated: Tue Sep 25 09:28:05 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_24_01\3_092422.D
Date Acquired: 24 Sep 2001 22:12
Inst: HP_03 Operator ID: BTB
Name: AR1660L43Q
Misc: 5-292-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:50 2001 Quant Results File: XPCBI24.RES



Aroclor-1260 {2} 13.57min area: 1796360 m

BTB 092501

Integration Time Range: 13.52 - 13.71

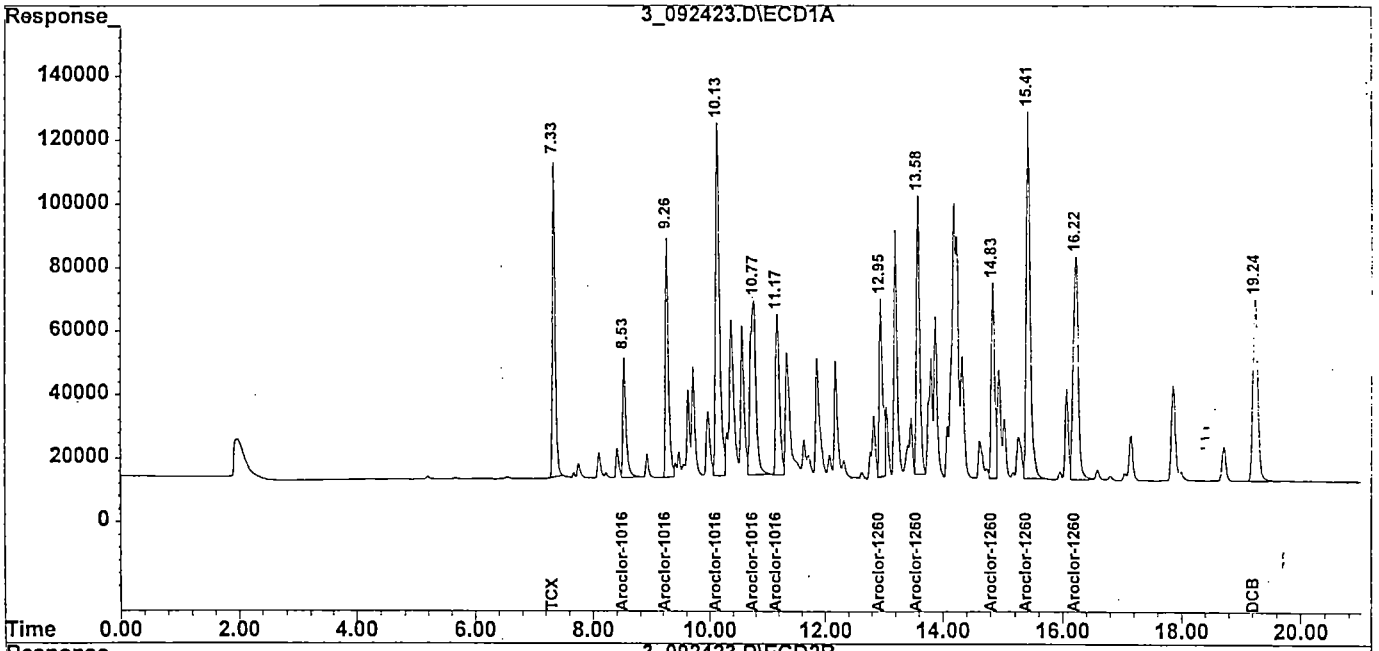
F:\HPCHEM\HP\3\DATA\09_24_01\3_092422.D
Report generated: Tue Sep 25 09:28:06 2001

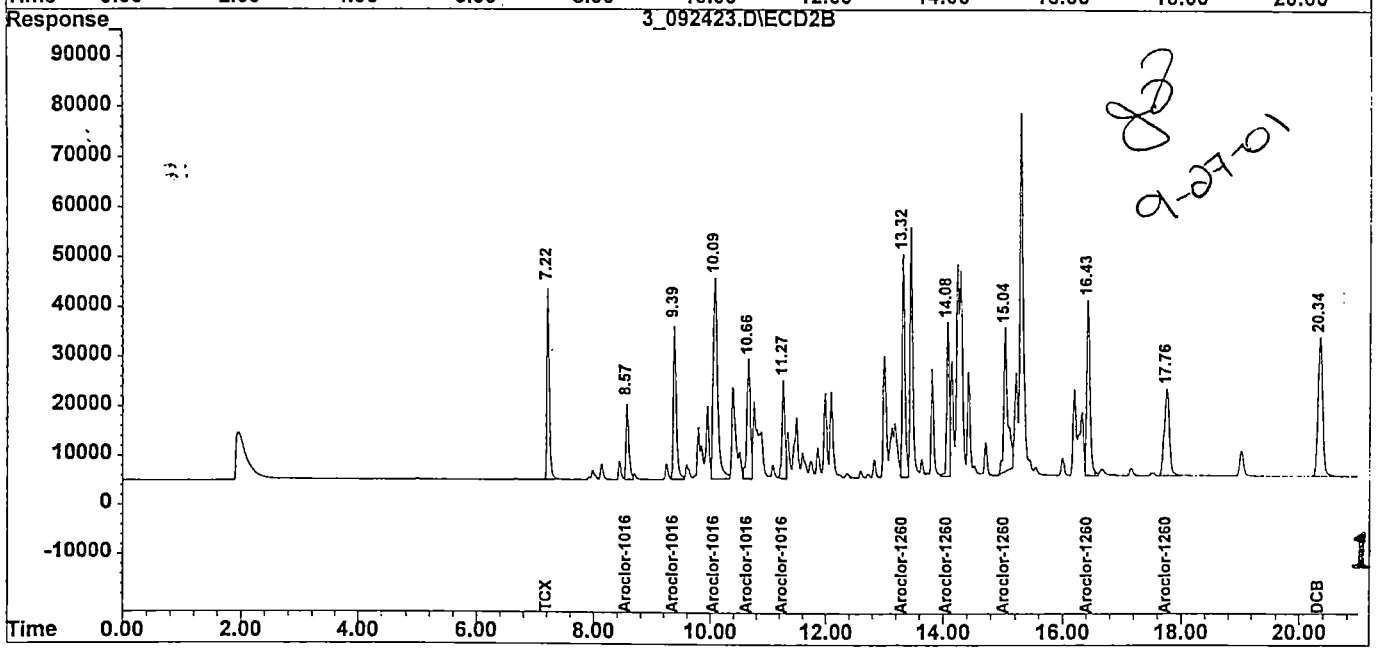
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092423.D\ECD1A.CH Vial: 95
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092423.D\ECD2B.CH
Acq On : 24 Sep 2001 22:38 Operator: BTB
Sample : AR1660L53Q Inst : HP_03
Misc : 5-291-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:51 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B





9-27-01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092423.D\ECD1A.CH Vial: 95
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092423.D\ECD2B.CH
Acq On : 24 Sep 2001 22:38 Operator: BTB
Sample : AR1660L53Q Inst : HP_03
Misc : 5-291-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 8:51 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 2001
Response via : Initial Calibration

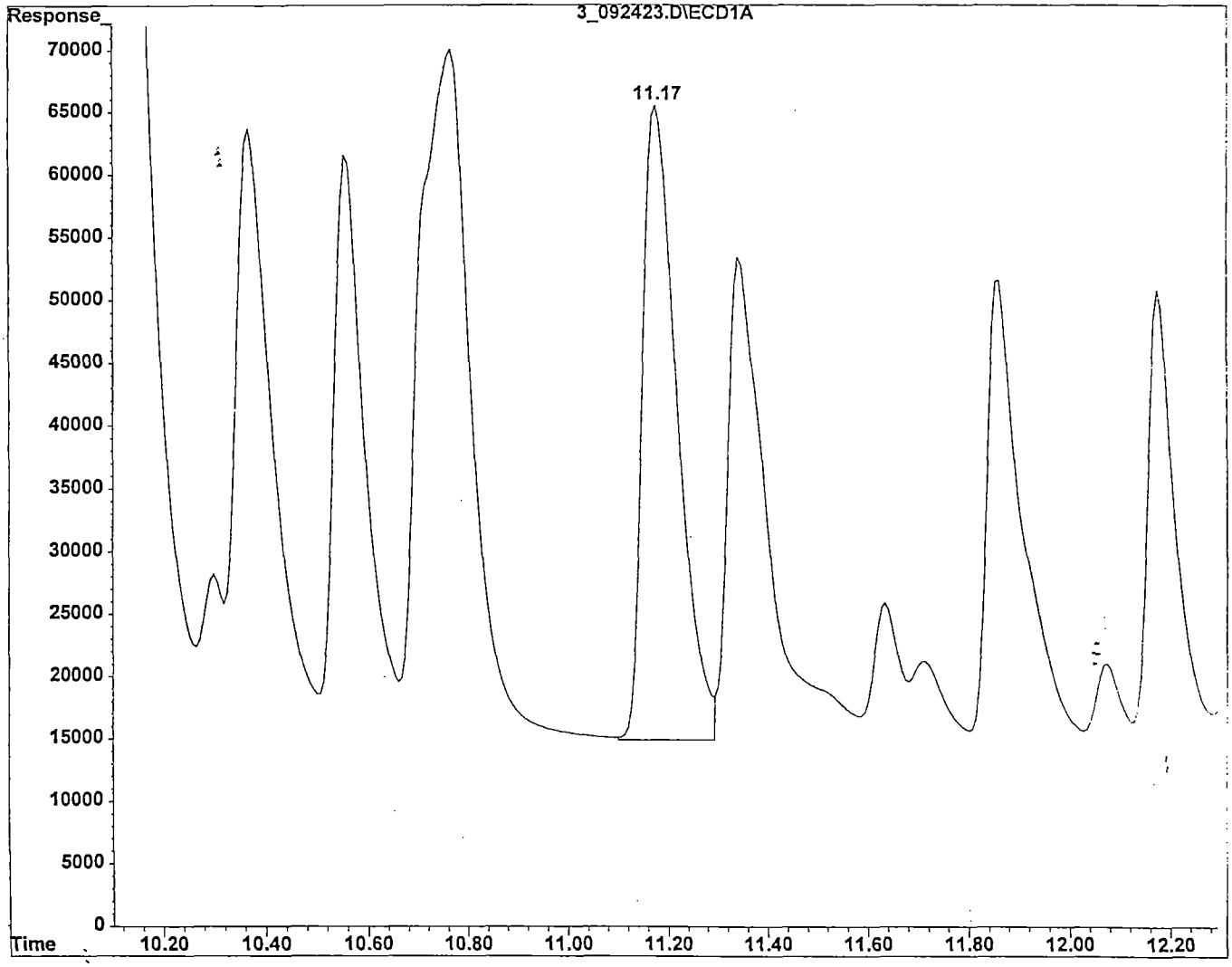
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	3350519	1132465	61.8	69.9
22)	S DCB	19.24	20.34	3154439	1550506	56.1	63.3
	Target Compounds:						
2)	L1 Aroclor-1016	8.53	8.57	1497860	489549	1105.2	1272.4
3)	L1 Aroclor-1016 {2}	9.26	9.39	2759598	1084304	1088.4	1224.7
4)	L1 Aroclor-1016 {3}	10.13	10.09	5372484	2186272	1138.7	1287.3
5)	L1 Aroclor-1016 {4}	10.77	10.66	3976931	1047787	1076.9	1326.3
6)	L1 Aroclor-1016 {5}	11.17	11.28	2434840	684370	1240.9m BTB 092501	1311.2
	Sum Aroclor-1016			16041712	5492282	5650.1	6422.0
	Average Aroclor-1016					1130.024	1284.392
17)	L7 Aroclor-1260	12.95	13.33	2263098	1482366	1059.8	1178.0
18)	L7 Aroclor-1260 {2}	13.57	14.08	3249760	967824	1000.5m	1178.5
19)	L7 Aroclor-1260 {3}	14.84	15.04	2377251	1327924	1144.4	1230.0
20)	L7 Aroclor-1260 {4}	15.41	16.44	5291882	1438204	1132.0	1299.3
21)	L7 Aroclor-1260 {5}	16.23	17.77	4133289	1047144	1161.2	1341.9
	Sum Aroclor-1260			17315280	6263463	5497.8	6227.6
	Average Aroclor-1260					1099.553	1245.515

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
3_092423.D XPCBI24.M Tue Sep 25 08:57:42 2001 Page 1

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_24_01\3_092423.D
Date Acquired: 24 Sep 2001 22:38
Inst: HP_03 Operator ID: BTB
Name: AR1660L53Q
Misc: 5-291-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:51 2001 Quant Results File: XPCBI24.RES



Aroclor-1016 {5} 11.17min area: 2434840 m

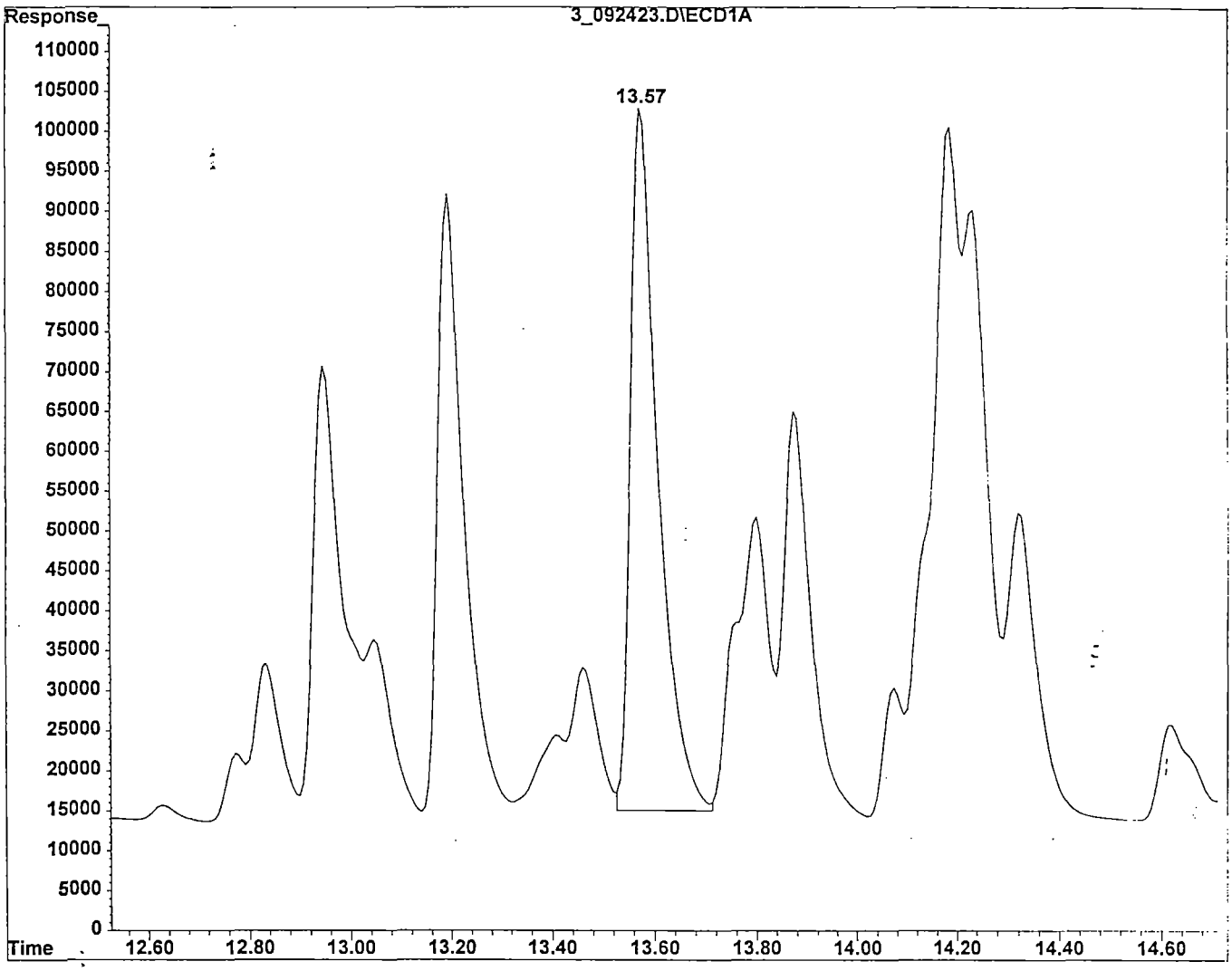
BTB 092501

Integration Time Range: 11.10 - 11.29

F:\HPCHEM\HP\3\DATA\09_24_01\3_092423.D
Report generated: Tue Sep 25 09:28:07 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_24_01\3_092423.D
Date Acquired: 24 Sep 2001 22:38
Inst: HP_03 Operator ID: BTB
Name: ARI660L53Q
Misc: 5-291-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 25 8:51 2001 Quant Results File: XPCBI24.RES



Aroclor-1260 {2} 13.57min area: 3249760 m
BTB
Integration Time Range: 13.52 - 13.71 092501

F:\HPCHEM\HP\3\DATA\09_24_01\3_092423.D
Report generated: Tue Sep 25 09:28:08 2001

Continuing Calibration Report HP_03

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Fri Sep 28 08:46:35 2001
Response via : Initial Calibration

Continuing Calibration File: 3_092485.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	46.439	50.254	E3	-8.2	109
2	L1	Aroclor-1016	1.110	1.254	E3	-13.0	110
3	L1	Aroclor-1016 {2}	2.178	2.340	E3	-7.4	109
4	L1	Aroclor-1016 {3}	4.142	4.547	E3	-9.8	110
5	L1	Aroclor-1016 {4}	3.276	3.546	E3	-8.2	111
6	L1	Aroclor-1016 {5}	1.741	1.847	E3	-6.1	105
17	L7	Aroclor-1260	1.678	1.776	E3	-5.8	106
18	L7	Aroclor-1260 {2}	2.472	2.612	E3	-5.7	108
19	L7	Aroclor-1260 {3}	1.705	1.822	E3	-6.8	107
20	L7	Aroclor-1260 {4}	3.780	4.032	E3	-6.7	108
21	L7	Aroclor-1260 {5}	2.896	3.091	E3	-6.8	107
22	S	DCB	45.255	49.396	E3	-9.1	110

Signal #2
Continuing Calibration File: 3_092485.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	14.611	14.974	E3	-2.5	104
2	L1	Aroclor-1016	351.179	368.028		-4.8	105
3	L1	Aroclor-1016 {2}	806.157	835.705		-3.7	105
4	L1	Aroclor-1016 {3}	1.606	1.692	E3	-5.3	106
5	L1	Aroclor-1016 {4}	716.341	730.835		-2.0	105
6	L1	Aroclor-1016 {5}	472.257	486.581		-3.0	105
17	L7	Aroclor-1260	1.142	1.179	E3	-3.3	104
18	L7	Aroclor-1260 {2}	732.350	761.047		-3.9	105
19	L7	Aroclor-1260 {3}	913.772	982.823		-7.6	109
20	L7	Aroclor-1260 {4}	0.969	1.006	E3	-3.9	105
21	L7	Aroclor-1260 {5}	679.709	706.177		-3.9	105
22	S	DCB	21.654	22.463	E3	-3.7	105

(#) = Out of Range SPCC's out = 0 CCC's out = 0

3_092485.D XPCBI24.M Fri Sep 28 08:46:44 2001

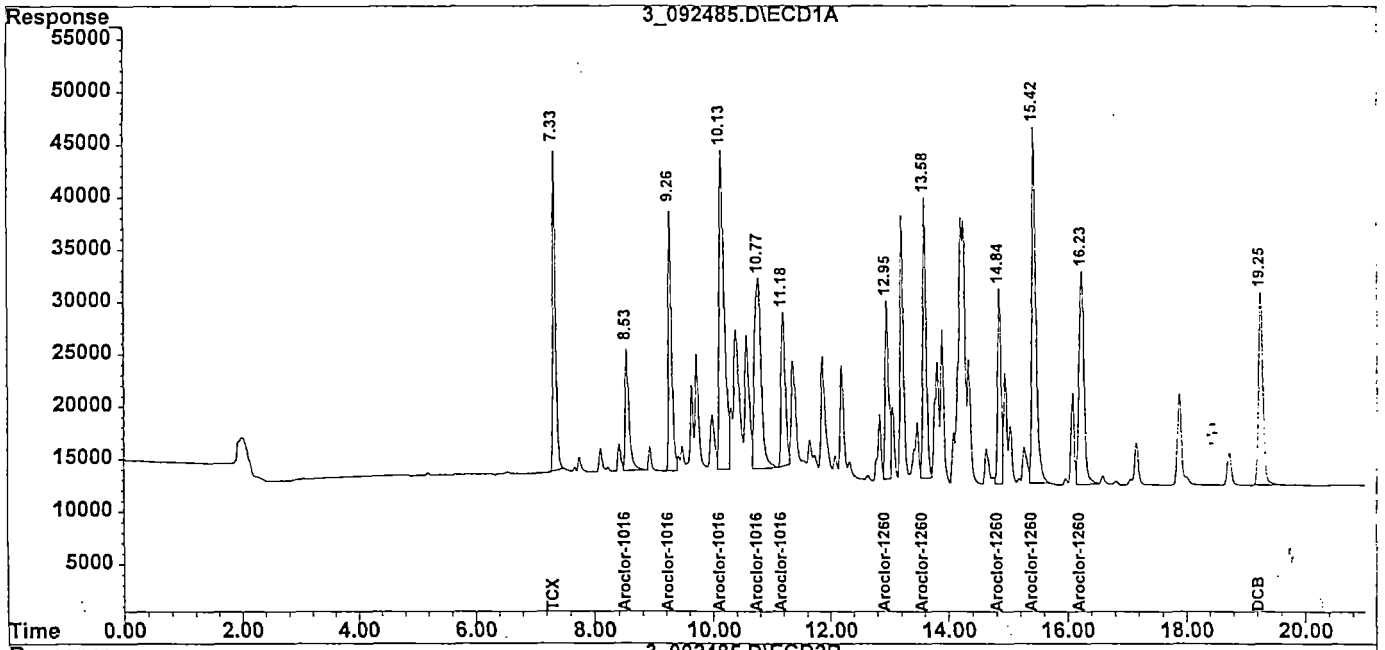
COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29658 SDG E0415
Signature Freda M. Willis
Date 09/28/01

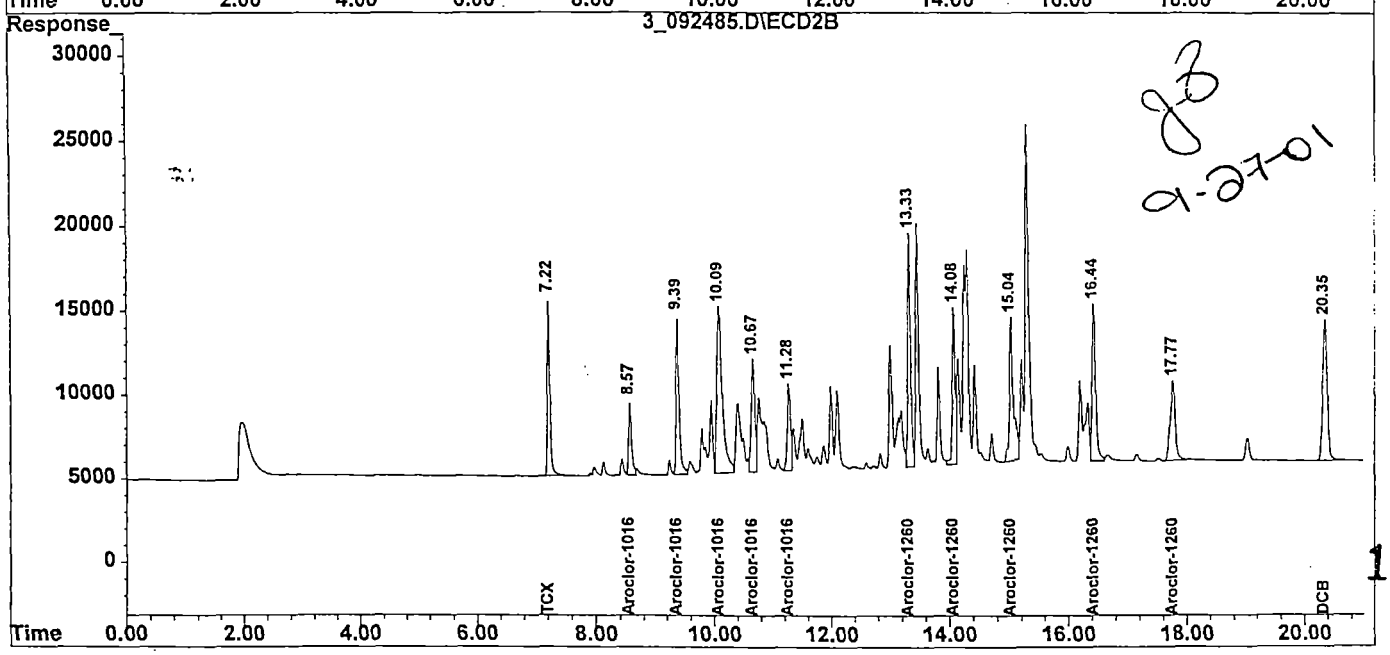
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092485.D\ECD1A.CH Vial: 57
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092485.D\ECD2B.CH
Acq On : 26 Sep 2001 1:08 Operator: BTB
Sample : AR1660L33X Inst : HP_03
Misc : 5-293-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 8:15 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B





JB 9-27-01

167

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092485.D\ECD1A.CH Vial: 57
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092485.D\ECD2B.CH
Acq On : 26 Sep 2001 1:08 Operator: BTB
Sample : AR1660L33X Inst : HP_03
Misc : 5-293-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 8:15 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

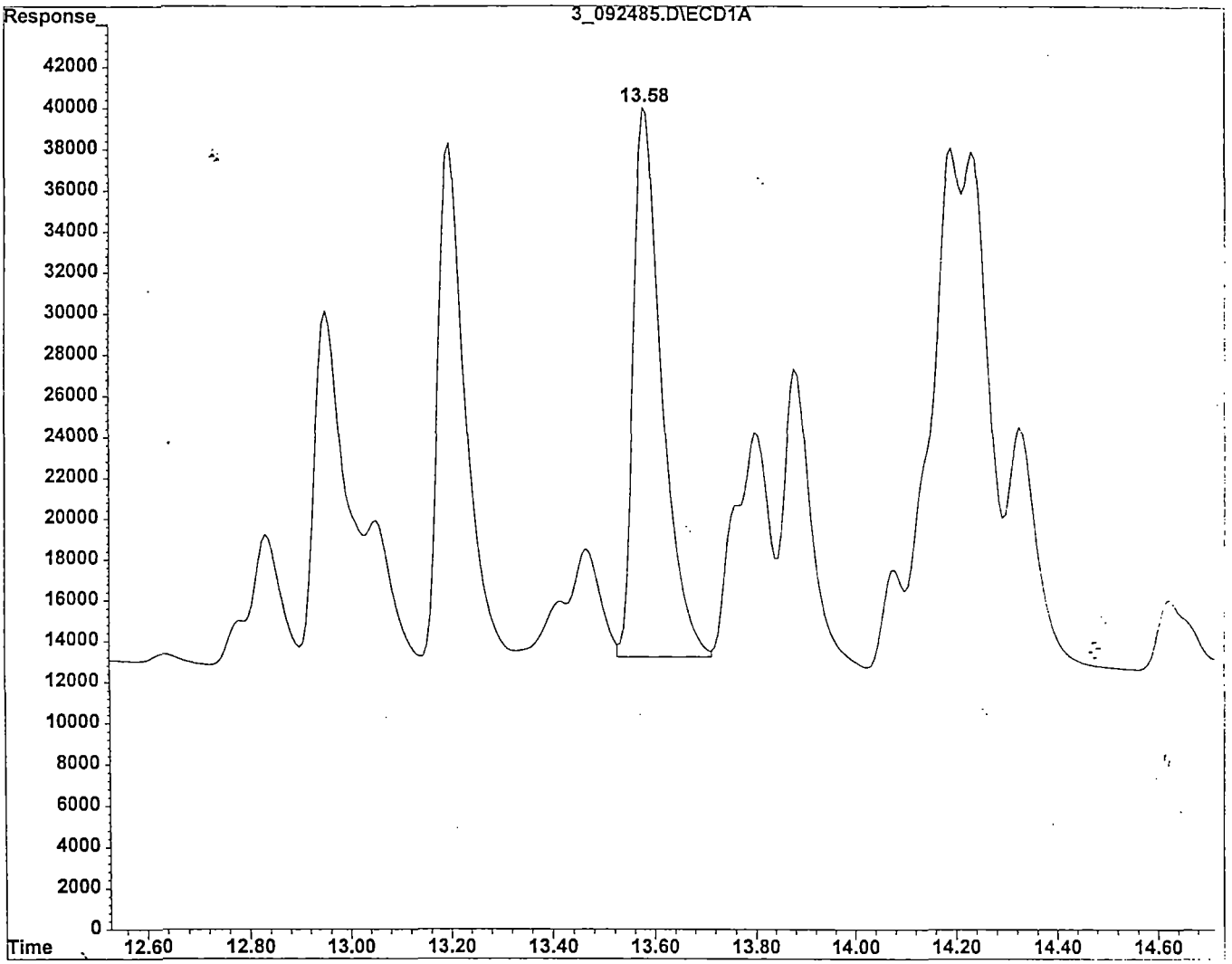
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	1005072	299488	21.6	20.5
22)	S DCB	19.25	20.35	987913	449262	21.8	20.7
	Target Compounds:						
2)	L1 Aroclor-1016	8.53	8.57	501749	147211	412.7	419.2
3)	L1 Aroclor-1016 {2}	9.26	9.39	935953	334282	423.7	414.7
4)	L1 Aroclor-1016 {3}	10.14	10.10	1818870	676858	439.2	421.4
5)	L1 Aroclor-1016 {4}	10.77	10.67	1418248	292334	432.9	408.1
6)	L1 Aroclor-1016 {5}	11.18	11.28	738939	194632	424.3	412.1
	Sum Aroclor-1016			5413759	1645318	2132.8	2075.4
	Average Aroclor-1016					426.568	415.089
17)	L7 Aroclor-1260	12.96	13.33	710244	471608	423.3	413.1
18)	L7 Aroclor-1260 {2}	13.58	14.08	1044992	304419	422.8m BTB	415.7
19)	L7 Aroclor-1260 {3}	14.84	15.04	728891	393129	427.4 09260\	430.2
20)	L7 Aroclor-1260 {4}	15.42	16.44	1612791	402461	426.7	415.5
21)	L7 Aroclor-1260 {5}	16.23	17.77	1236486	282471	427.0	415.6
	Sum Aroclor-1260			5333403	1854088	2127.2	2090.0
	Average Aroclor-1260					425.434	418.009

168

(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\3\DATA\09_24_01\3_092485.D
Date Acquired: 26 Sep 2001 1:08
Inst: HP_03 Operator ID: BTB
Name: AR1660L33X
Misc: 5-293-7
Method: F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 26 8:15 2001 Quant Results File: XPCBI24.RES



Aroclor-1260 {2} 13.58min area: 1044992 m BTB

Integration Time Range: 13.53 - 13.71 092601

169

F:\HPCHEM\HP\3\DATA\09_24_01\3_092485.D
Report generated: Wed Sep 26 08:16:38 2001

Continuing Calibration Report HP_03

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Fri Sep 28 08:50:46 2001
Response via : Initial Calibration

Continuing Calibration File: 3_092515.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	46.439	49.859	E3	-7.4	108
2	L1	Aroclor-1016	1.110	1.177	E3	-6.0	103
3	L1	Aroclor-1016 {2}	2.178	2.100	E3	3.6	98
4	L1	Aroclor-1016 {3}	4.142	3.895	E3	6.0	94
5	L1	Aroclor-1016 {4}	3.276	2.837	E3	13.4	89
6	L1	Aroclor-1016 {5}	1.741	1.515	E3	13.0	86
17	L7	Aroclor-1260	1.678	1.436	E3	14.4	86
18	L7	Aroclor-1260 {2}	2.472	2.132	E3	13.7	88
19	L7	Aroclor-1260 {3}	1.705	1.541	E3	9.6	91
20	L7	Aroclor-1260 {4}	3.780	3.429	E3	9.3	92
21	L7	Aroclor-1260 {5}	2.896	2.631	E3	9.1	91
22	S	DCB	45.255	41.406	E3	8.5	92

Signal #2
Continuing Calibration File: 3_092515.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	14.611	14.837	E3	-1.6	103
2	L1	Aroclor-1016	351.179	354.452		-0.9	101
3	L1	Aroclor-1016 {2}	806.157	797.831		1.0	100
4	L1	Aroclor-1016 {3}	1.606	1.593	E3	0.9	100
5	L1	Aroclor-1016 {4}	716.341	676.137		5.6	97
6	L1	Aroclor-1016 {5}	472.257	441.296		6.6	95
17	L7	Aroclor-1260	1.142	1.023	E3	10.4	91
18	L7	Aroclor-1260 {2}	732.350	653.845		10.7	90
19	L7	Aroclor-1260 {3}	913.772	836.175		8.5	92
20	L7	Aroclor-1260 {4}	0.969	0.888	E3	8.3	92
21	L7	Aroclor-1260 {5}	679.709	627.691		7.7	93
22	S	DCB	21.654	20.329	E3	6.1	95

(#) = Out of Range SPCC's out = 0 CCC's out = 0

3_092515.D XPCBI24.M Fri Sep 28 08:50:53 2001

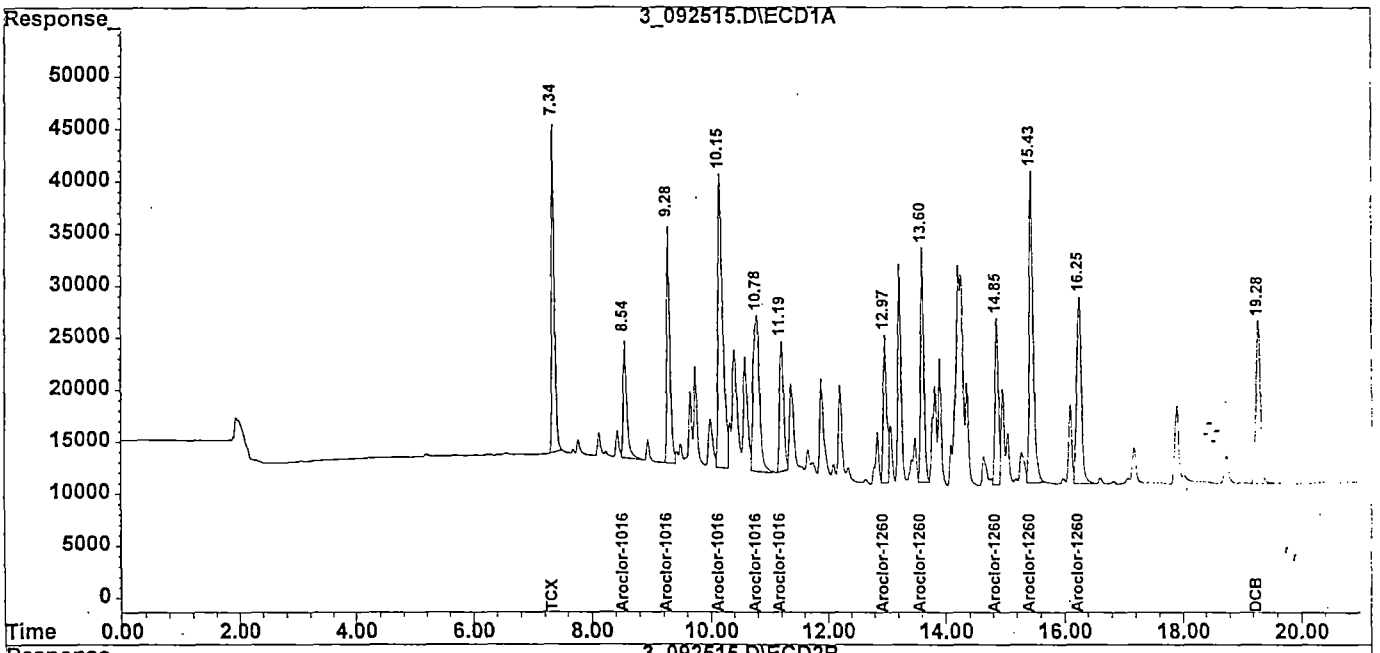
COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29658 SDG E0415
Signature Arnelda M. Willen
Date 09/28/01

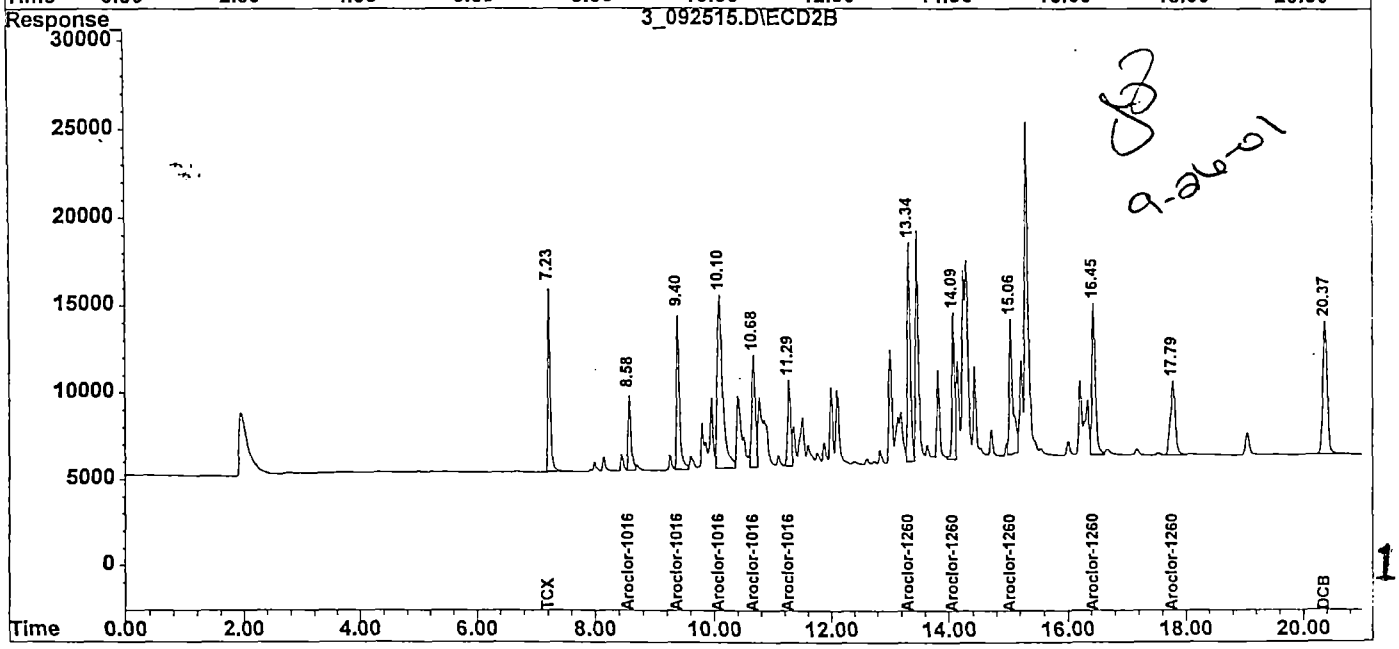
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092515.D\ECD1A.CH Vial: 73
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092515.D\ECD2B.CH
Acq On : 26 Sep 2001 8:07 Operator: BTB
Sample : AR1660L33Z Inst : HP_03
Misc : 5-293-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 9:59 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B





9-26-01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092515.D\ECD1A.CH Vial: 73
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092515.D\ECD2B.CH
Acq On : 26 Sep 2001 8:07 Operator: BTB
Sample : AR1660L33Z Inst : HP_03
Misc : 5-293-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 9:59 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.35	7.23	997172	296749	21.5	20.3
22)	S DCB	19.28f	20.38f	828128	406571	18.3	18.8
	Target Compounds:						
2)	L1 Aroclor-1016	8.54	8.58	470926	141781	387.4	403.7
3)	L1 Aroclor-1016 {2}	9.28	9.40	840037	319132	380.2	395.9
4)	L1 Aroclor-1016 {3}	10.15	10.10	1557822	637007	376.1	396.6
5)	L1 Aroclor-1016 {4}	10.78	10.68	1134728	270455	346.4	377.6
6)	L1 Aroclor-1016 {5}	11.20	11.29	606065	176518	348.0	373.8
	Sum Aroclor-1016			4609577	1544894	1838.2	1947.5
	Average Aroclor-1016					367.638	389.496
17)	L7 Aroclor-1260	12.97	13.34	574249	409211	342.3	358.4
18)	L7 Aroclor-1260 {2}	13.59	14.10	852964	261538	345.1m	357.1
19)	L7 Aroclor-1260 {3}	14.85	15.06	616472	334470	361.5	366.0
20)	L7 Aroclor-1260 {4}	15.43	16.46	1371670	355307	362.9	366.8
21)	L7 Aroclor-1260 {5}	16.25	17.79	1052465	251076	363.5	369.4
	Sum Aroclor-1260			4467820	1611602	1775.2	1817.8
	Average Aroclor-1260					355.034	363.555

BTB 09/26/01

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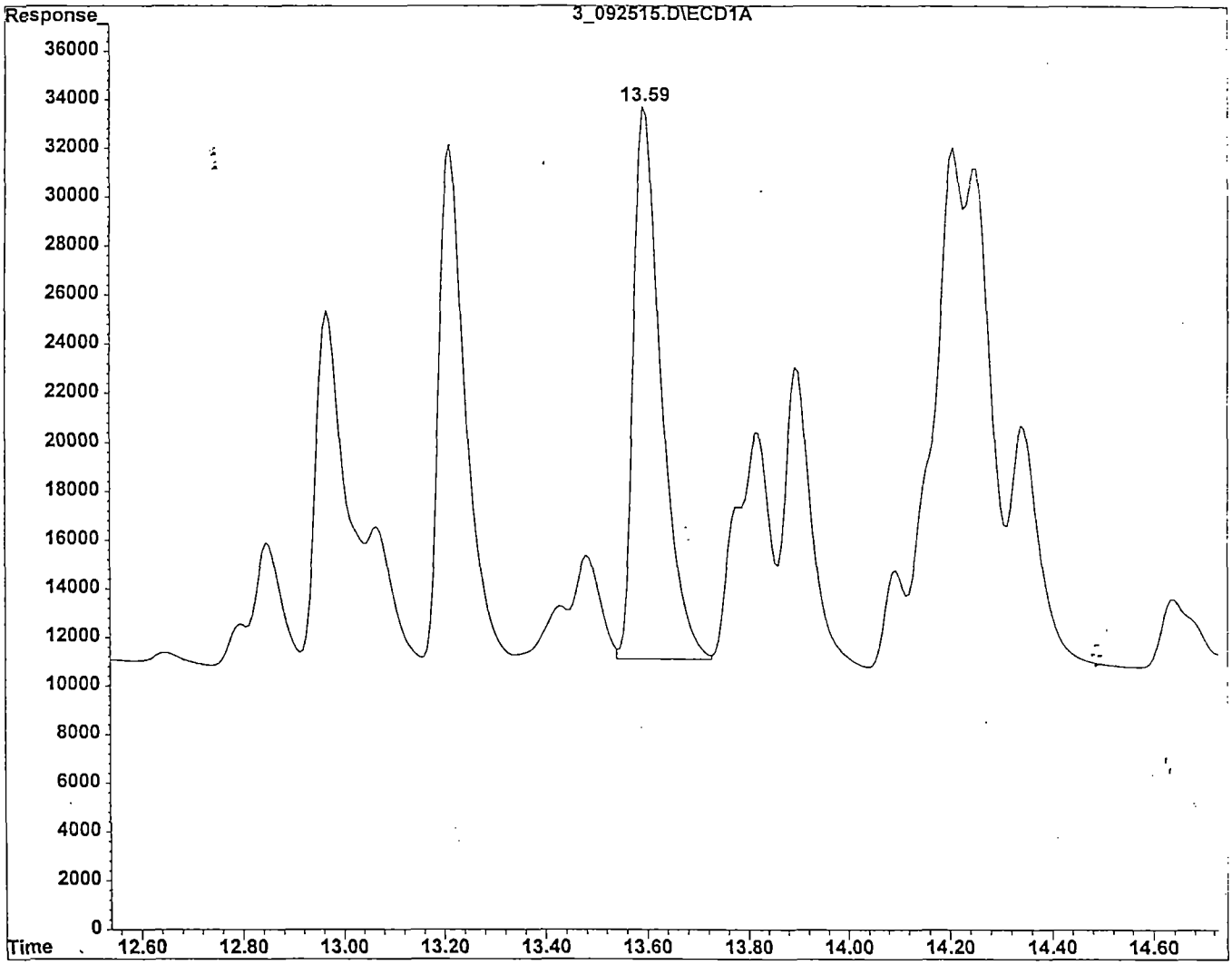
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_25_01\3_092515.D
Date Acquired: 26 Sep 2001 8:07
Inst: HP_03 Operator ID: BTB
Name: AR1660L33Z
Misc: 5-293-7
Method: F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 26 9:59 2001 Quant Results File: XPCBI24.RES



Aroclor-1260 {2} 13.59min area: 852964 m

BTB 092601

Integration Time Range: 13.54 - 13.73

173

F:\HPCHEM\HP\3\DATA\09_25_01\3_092515.D
Report generated: Wed Sep 26 10:01:39 2001

Continuing Calibration Report HP_03

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Fri Sep 28 09:20:35 2001
Response via : Initial Calibration

Continuing Calibration File: 3_092532.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	46.439	55.623	E3	-19.8#	120
2	L1	Aroclor-1016	1.110	1.286	E3	-15.8#	113
3	L1	Aroclor-1016 {2}	2.178	2.417	E3	-11.0	113
4	L1	Aroclor-1016 {3}	4.142	4.465	E3	-7.8	108
5	L1	Aroclor-1016 {4}	3.276	3.202	E3	2.2	101
6	L1	Aroclor-1016 {5}	1.741	1.674	E3	3.9	95
17	L7	Aroclor-1260	1.678	1.545	E3	7.9	93
18	L7	Aroclor-1260 {2}	2.472	2.242	E3	9.3	92
19	L7	Aroclor-1260 {3}	1.705	1.606	E3	5.8	95
20	L7	Aroclor-1260 {4}	3.780	3.613	E3	4.4	97
21	L7	Aroclor-1260 {5}	2.896	2.758	E3	4.8	96
22	S	DCB	45.255	45.052	E3	0.5	100

Continuing Calibration File: 3_092532.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	14.611	14.912	E3	-2.1	103
2	L1	Aroclor-1016	351.179	359.939		-2.5	102
3	L1	Aroclor-1016 {2}	806.157	806.797		-0.1	101
4	L1	Aroclor-1016 {3}	1.606	1.615	E3	-0.5	101
5	L1	Aroclor-1016 {4}	716.341	721.205		-0.7	103
6	L1	Aroclor-1016 {5}	472.257	448.293		5.1	97
17	L7	Aroclor-1260	1.142	1.019	E3	10.7	90
18	L7	Aroclor-1260 {2}	732.350	649.992		11.2	90
19	L7	Aroclor-1260 {3}	913.772	824.869		9.7	91
20	L7	Aroclor-1260 {4}	0.969	0.874	E3	9.8	91
21	L7	Aroclor-1260 {5}	679.709	616.637		9.3	92
22	S	DCB	21.654	19.702	E3	9.0	92

(#) = Out of Range SPCC's out = 0 CCC's out = 0

3_092532.D XPCBI24.M Fri Sep 28 09:20:42 2001

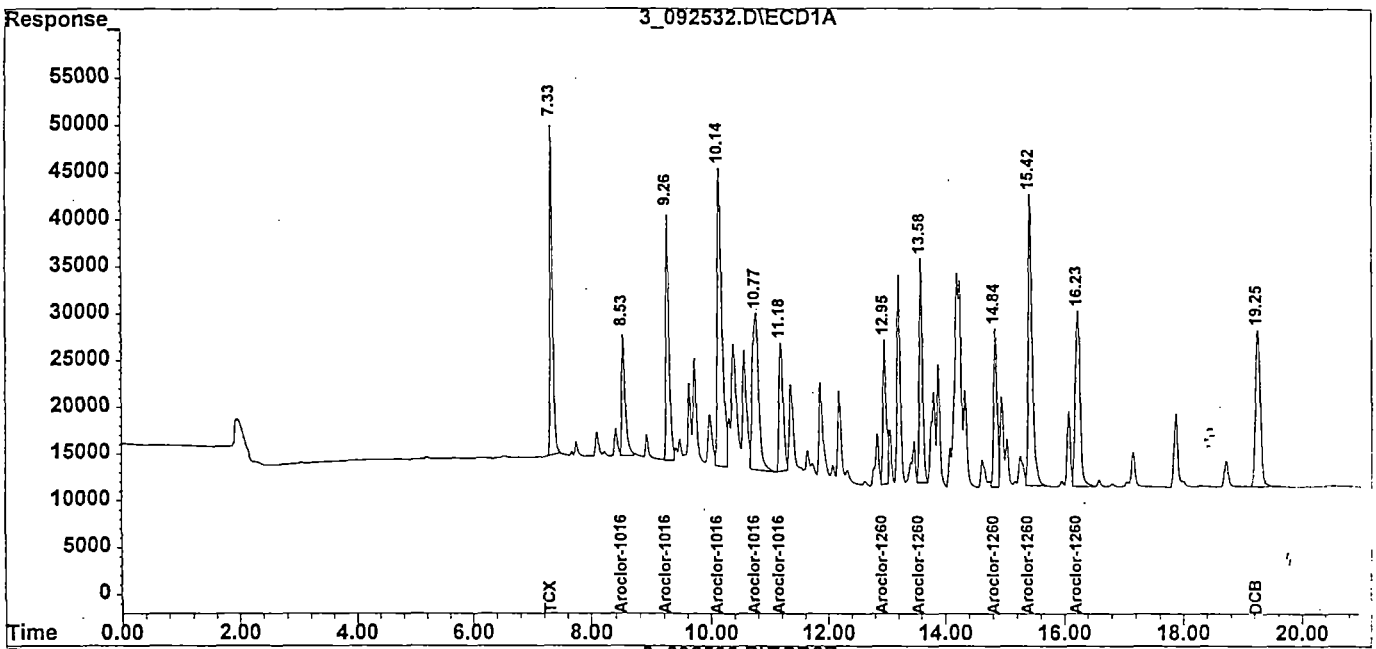
COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29658 SDG E0415
Signature Melda M. Williams
Date 09/28/01

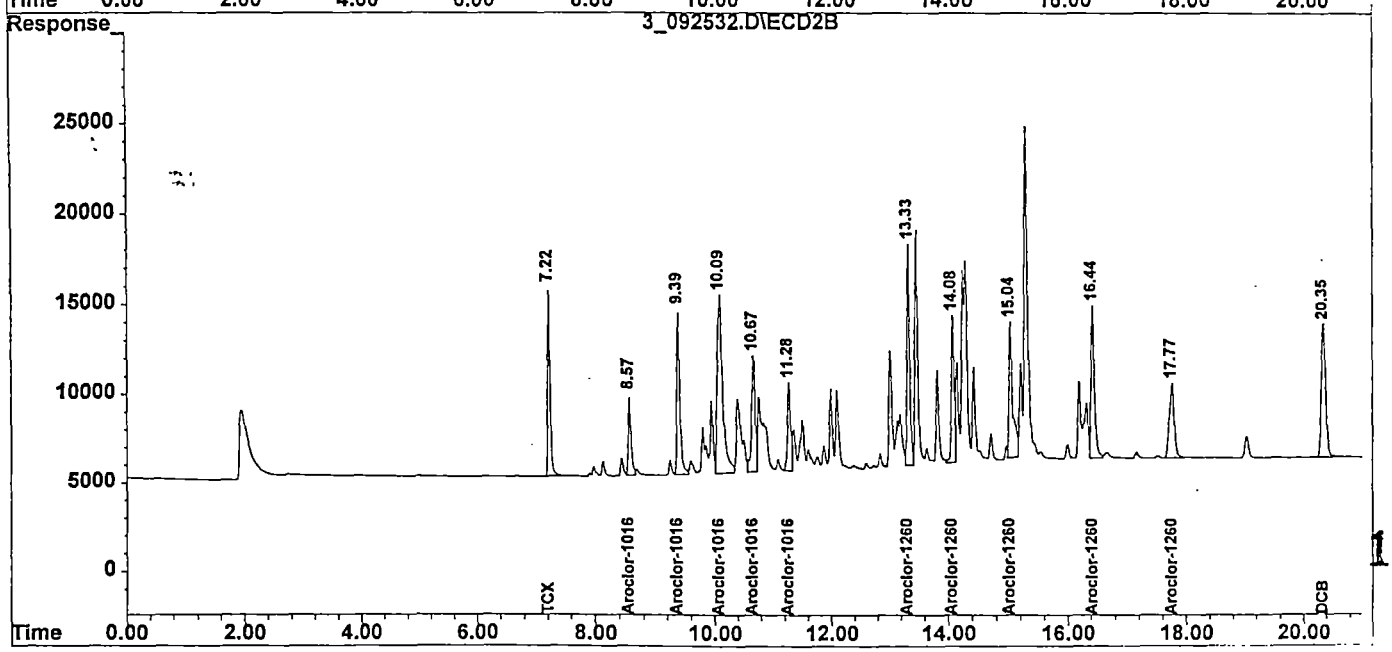
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092532.D\ECD1A.CH Vial: 90
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092532.D\ECD2B.CH
Acq On : 26 Sep 2001 15:24 Operator: BTB
Sample : AR1660L33B Inst : HP_03
Misc : 5-293-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 9:11 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B





175

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092532.D\ECD1A.CH Vial: 90
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092532.D\ECD2B.CH
Acq On : 26 Sep 2001 15:24 Operator: BTB
Sample : AR1660L33B Inst : HP_03
Misc : 5-293-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 9:11 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

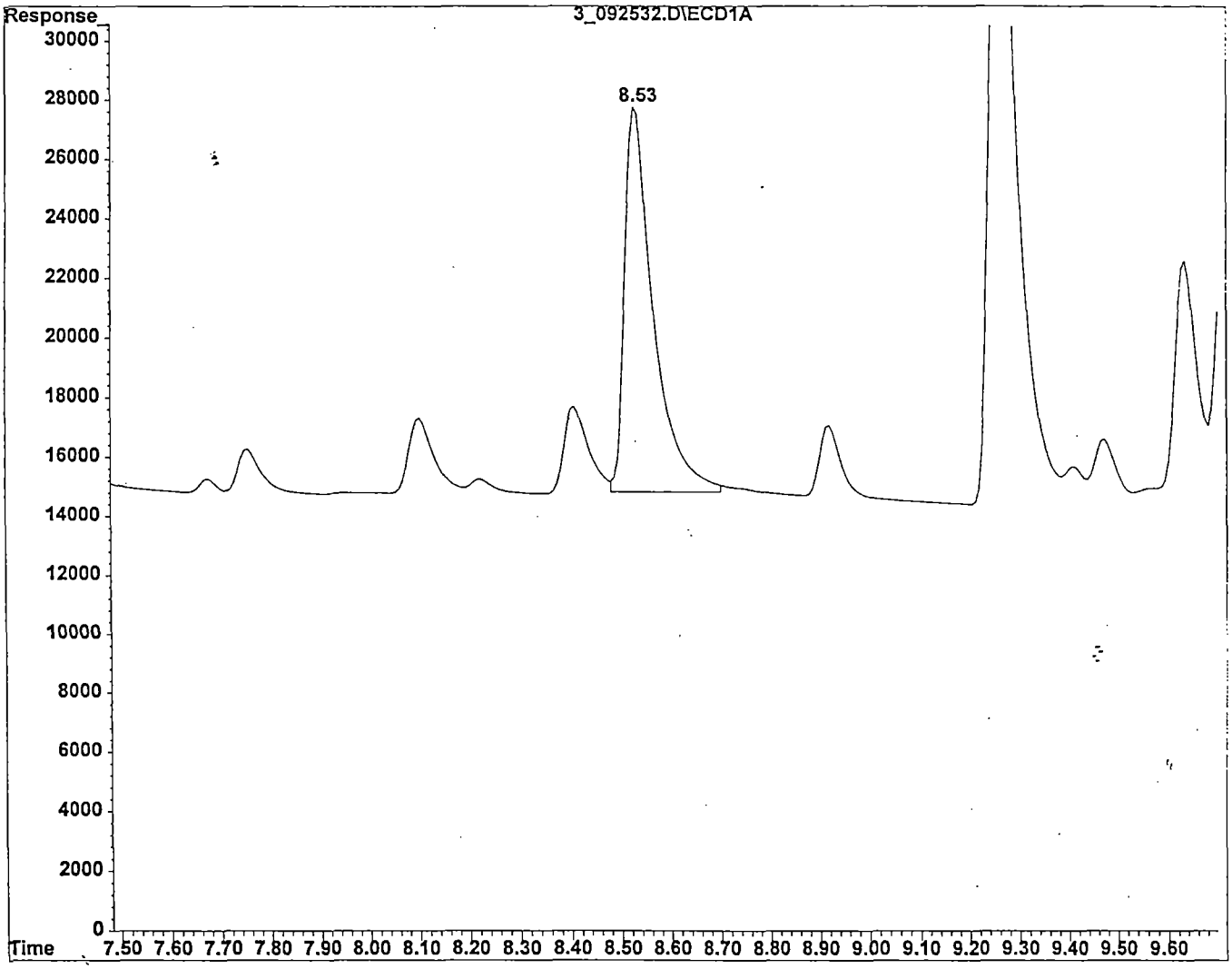
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	1112467	298250	24.0	20.4
22)	S DCB	19.25	20.35	901036	394050	19.9	18.2
	Target Compounds:						
2)	L1 Aroclor-1016	8.53	8.57	514328	143976	423.1m BTB	410.0
3)	L1 Aroclor-1016 {2}	9.26	9.39	966680	322719	437.6m 09/28/01	400.3
4)	L1 Aroclor-1016 {3}	10.14	10.10	1786028	645969	431.2	402.1
5)	L1 Aroclor-1016 {4}	10.77	10.67	1280976	288482	391.0	402.7
6)	L1 Aroclor-1016 {5}	11.18	11.28	669627	179317	384.5	379.7
	Sum Aroclor-1016			5217639	1580463	2067.5	1994.8
	Average Aroclor-1016					413.493	398.970
17)	L7 Aroclor-1260	12.96	13.33	618168	407629	368.4	357.0
18)	L7 Aroclor-1260 {2}	13.58	14.08	896800	259997	362.8m	355.0
19)	L7 Aroclor-1260 {3}	14.84	15.04	642507	329947	376.7	361.1
20)	L7 Aroclor-1260 {4}	15.42	16.44	1445302	349417	382.4	360.7
21)	L7 Aroclor-1260 {5}	16.23	17.78	1103125	246655	381.0	362.9
	Sum Aroclor-1260			4705902	1593645	1871.3	1796.8
	Average Aroclor-1260					374.264	359.350

176

(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\3\DATA\09_25_01\3_092532.D
Date Acquired: 26 Sep 2001 15:24
Inst: HP_03 Operator ID: BTB
Name: AR1660L33B
Misc: 5-293-7
Method: F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 28 9:11 2001 Quant Results File: XPCBI24.RES



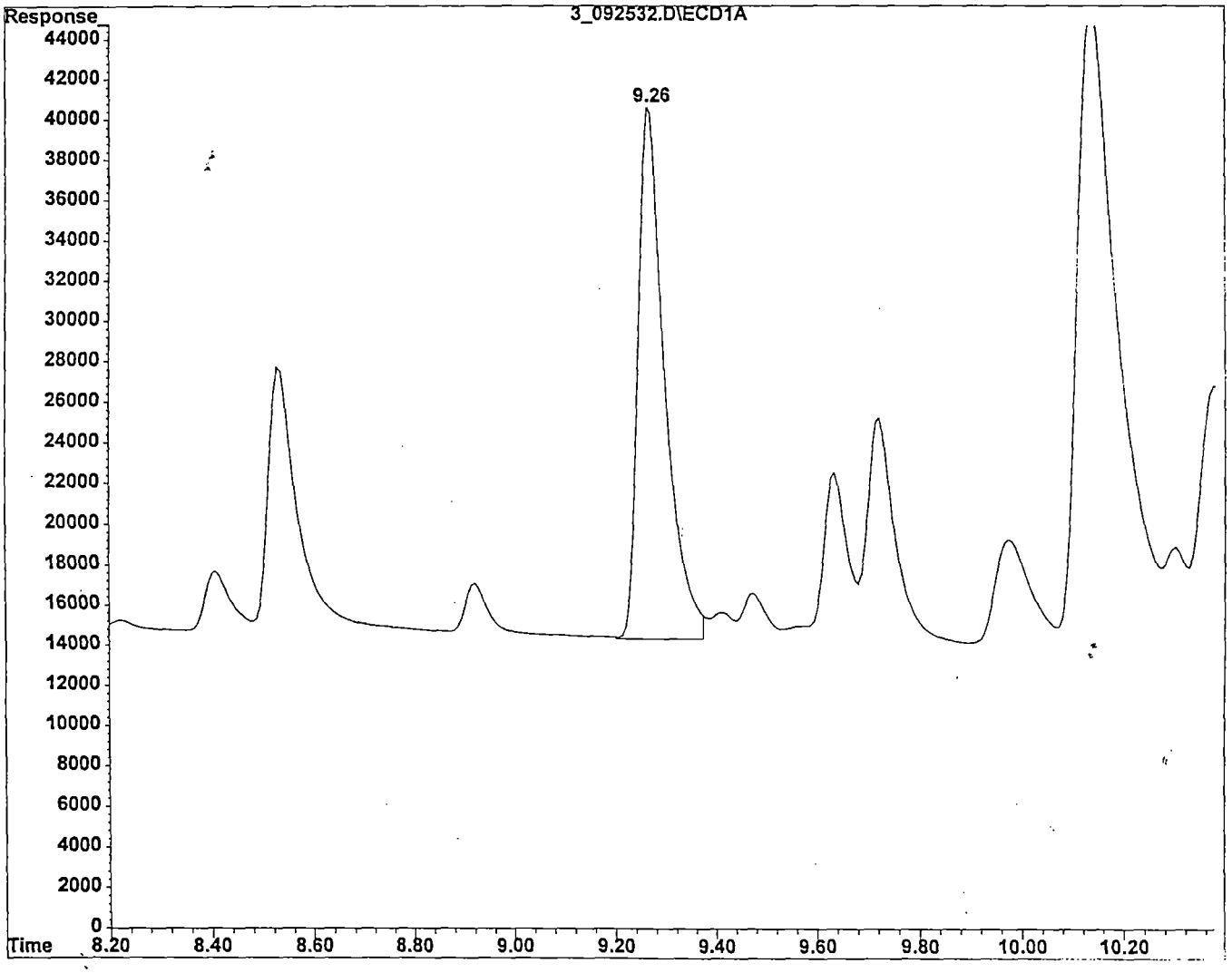
Aroclor-1016 8.53min area: 514328 m BTB 092801

Integration Time Range: 8.48 - 8.70

F:\HPCHEM\HP\3\DATA\09_25_01\3_092532.D
Report generated: Fri Sep 28 09:12:59 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_25_01\3_092532.D
Date Acquired: 26 Sep 2001 15:24
Inst: HP_03 Operator ID: BTB
Name: AR1660L33B
Misc: 5-293-7
Method: F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 28 9:11 2001 Quant Results File: XPCBI24.RES



Aroclor-1016 {2} 9.26min area: 966680 m

Integration Time Range: 9.20 - 9.38

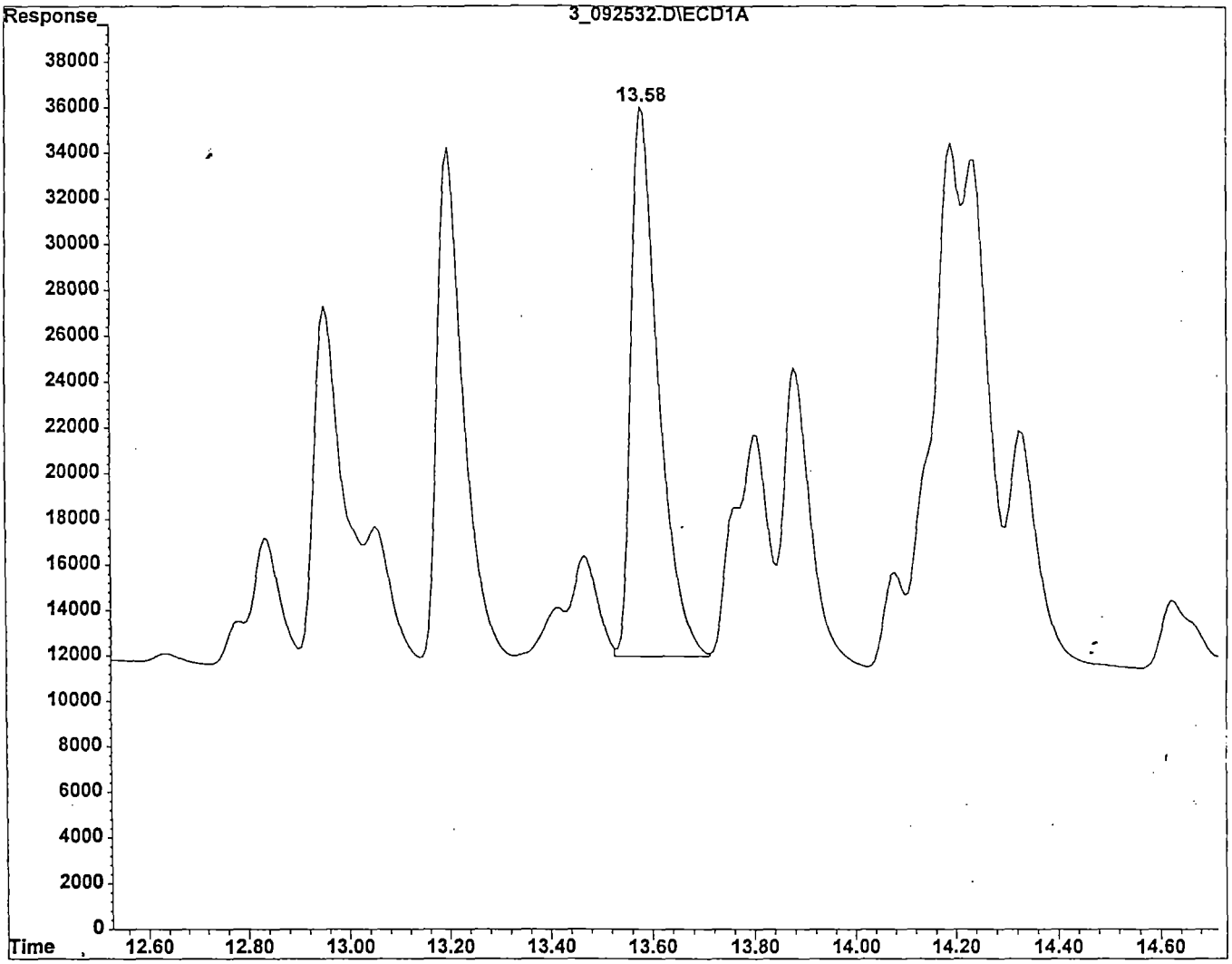
BTB 092801

178

F:\HPCHEM\HP\3\DATA\09_25_01\3_092532.D
Report generated: Fri Sep 28 09:13:00 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_25_01\3_092532.D
Date Acquired: 26 Sep 2001 15:24
Inst: HP_03 Operator ID: BTB
Name: AR1660L33B
Misc: 5-293-7
Method: F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 28 9:11 2001 Quant Results File: XPCBI24.RES



Aroclor-1260 {2} 13.58min area: 896800 m

Integration Time Range: 13.53 - 13.71

BTB 09/28/01

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F:\HPCHEM\HP\3\DATA\09_25_01\3_092532.D
Report generated: Fri Sep 28 09:13:00 2001

Continuing Calibration Report HP_03

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Mon Oct 01 10:37:15 2001
Response via : Initial Calibration

Continuing Calibration File: 3_092547.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	46.439	51.615	E3	-11.1	112
2	L1	Aroclor-1016	1.110	1.240	E3	-11.7	109
3	L1	Aroclor-1016 {2}	2.178	2.146	E3	1.5	100
4	L1	Aroclor-1016 {3}	4.142	3.912	E3	5.5	94
5	L1	Aroclor-1016 {4}	3.276	2.813	E3	14.1	88
6	L1	Aroclor-1016 {5}	1.741	1.429	E3	17.9#	81
17	L7	Aroclor-1260	1.678	1.331	E3	20.7#	80
18	L7	Aroclor-1260 {2}	2.472	1.898	E3	23.2#	78
19	L7	Aroclor-1260 {3}	1.705	1.393	E3	18.3#	82
20	L7	Aroclor-1260 {4}	3.780	3.122	E3	17.4#	84
21	L7	Aroclor-1260 {5}	2.896	2.363	E3	18.4#	82
22	S	DCB	45.255	38.267	E3	15.4#	85

Signal #2
Continuing Calibration File: 3_092547.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	14.611	13.933	E3	4.6	96
2	L1	Aroclor-1016	351.179	329.268		6.2	94
3	L1	Aroclor-1016 {2}	806.157	732.513		9.1	92
4	L1	Aroclor-1016 {3}	1.606	1.455	E3	9.5	91
5	L1	Aroclor-1016 {4}	716.341	614.221		14.3	88
6	L1	Aroclor-1016 {5}	472.257	395.705		16.2#	85
17	L7	Aroclor-1260	1.142	0.912	E3	20.1#	81
18	L7	Aroclor-1260 {2}	732.350	595.043		18.7#	82
19	L7	Aroclor-1260 {3}	913.772	573.635		37.2#	63
20	L7	Aroclor-1260 {4}	0.969	0.772	E3	20.3#	80
21	L7	Aroclor-1260 {5}	679.709	545.106		19.8#	81
22	S	DCB	21.654	17.559	E3	18.9#	82

(#) = Out of Range SPCC's out = 0 CCC's out = 0

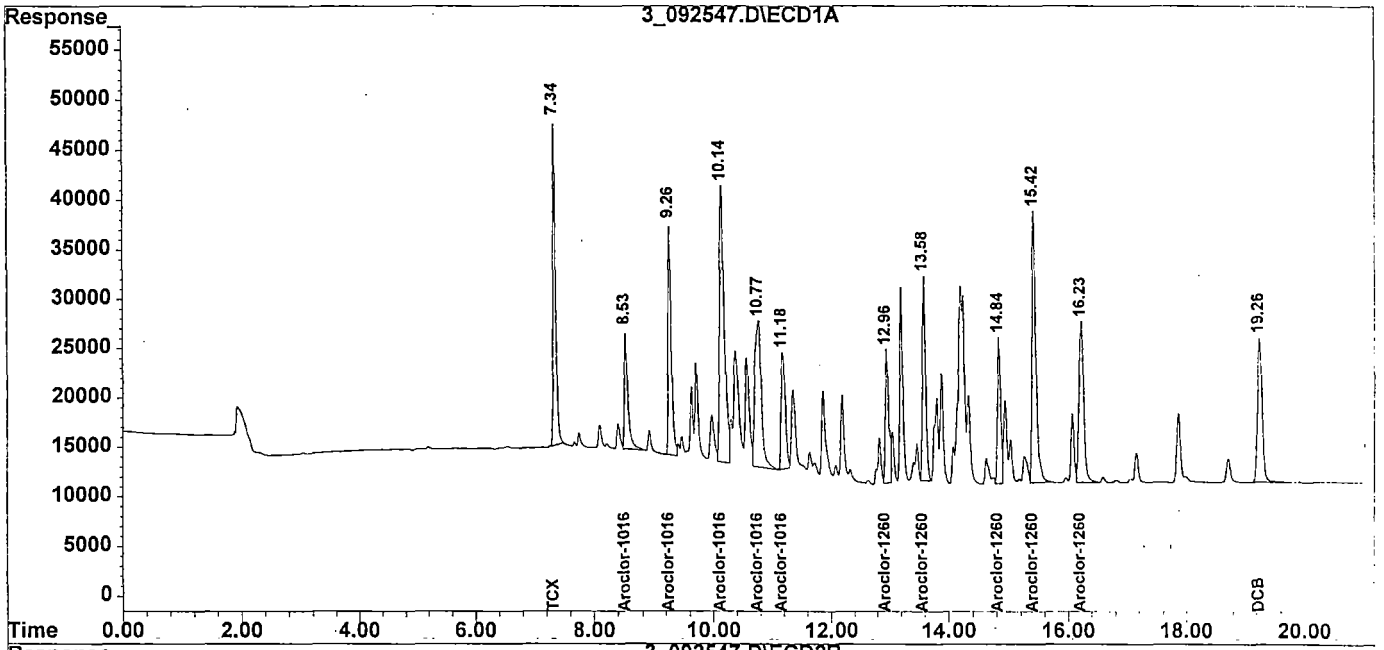
3_092547.D XPCBI24.M Mon Oct 01 10:37:22 2001

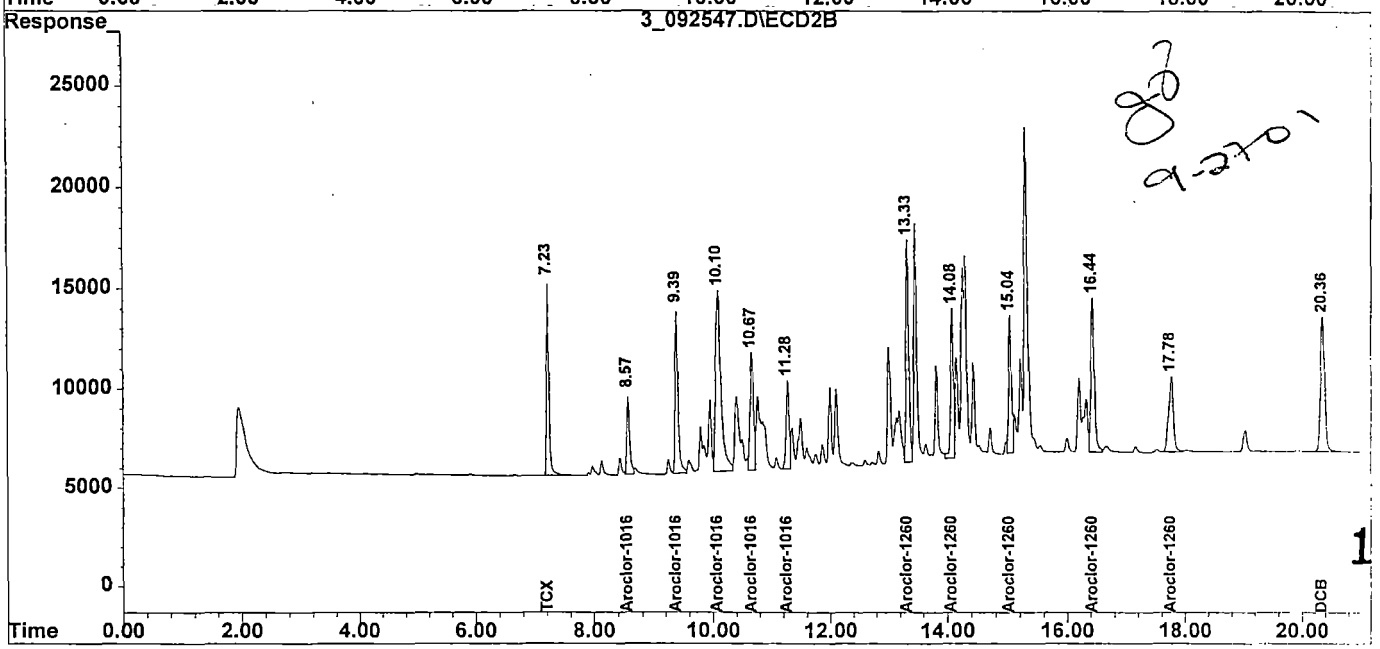
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092547.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092547.D\ECD2B.CH
Acq On : 26 Sep 2001 21:50 Operator: BTB
Sample : AR1660L33D Inst : HP_03
Misc : 5-293-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:27 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B





8?
9-27-01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092547.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092547.D\ECD2B.CH
Acq On : 26 Sep 2001 21:50 Operator: BTB
Sample : AR1660L33D Inst : HP_03
Misc : 5-293-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:27 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	1032304	278660	22.2	19.1
22)	S DCB	19.26	20.36	765330	351177	16.9	16.2
	Target Compounds:						
2)	L1 Aroclor-1016	8.53	8.58	496096	131707	408.1	375.0
3)	L1 Aroclor-1016 {2}	9.27	9.39	858334	293005	388.5	363.5
4)	L1 Aroclor-1016 {3}	10.14	10.10	1564893	581805	377.8	362.2
5)	L1 Aroclor-1016 {4}	10.77	10.67	1125079	245689	343.4	343.0
6)	L1 Aroclor-1016 {5}	11.18	11.28	571583	158282	328.2	335.2
	Sum Aroclor-1016			4615985	1410488	1846.1	1778.8
	Average Aroclor-1016					369.228	355.766
17)	L7 Aroclor-1260	12.96	13.33	532364	364798	317.3	319.5
18)	L7 Aroclor-1260 {2}	13.59	14.09	759208	238017	307.1m BTB	325.0
19)	L7 Aroclor-1260 {3}	14.84	15.05	557094	229454	326.7 092701	251.1
20)	L7 Aroclor-1260 {4}	15.42	16.45	1248654	308951	330.4	318.9
21)	L7 Aroclor-1260 {5}	16.24	17.78	945038	218043	326.4	320.8
	Sum Aroclor-1260			4042358	1359263	1607.8	1535.4
	Average Aroclor-1260					321.563	307.075

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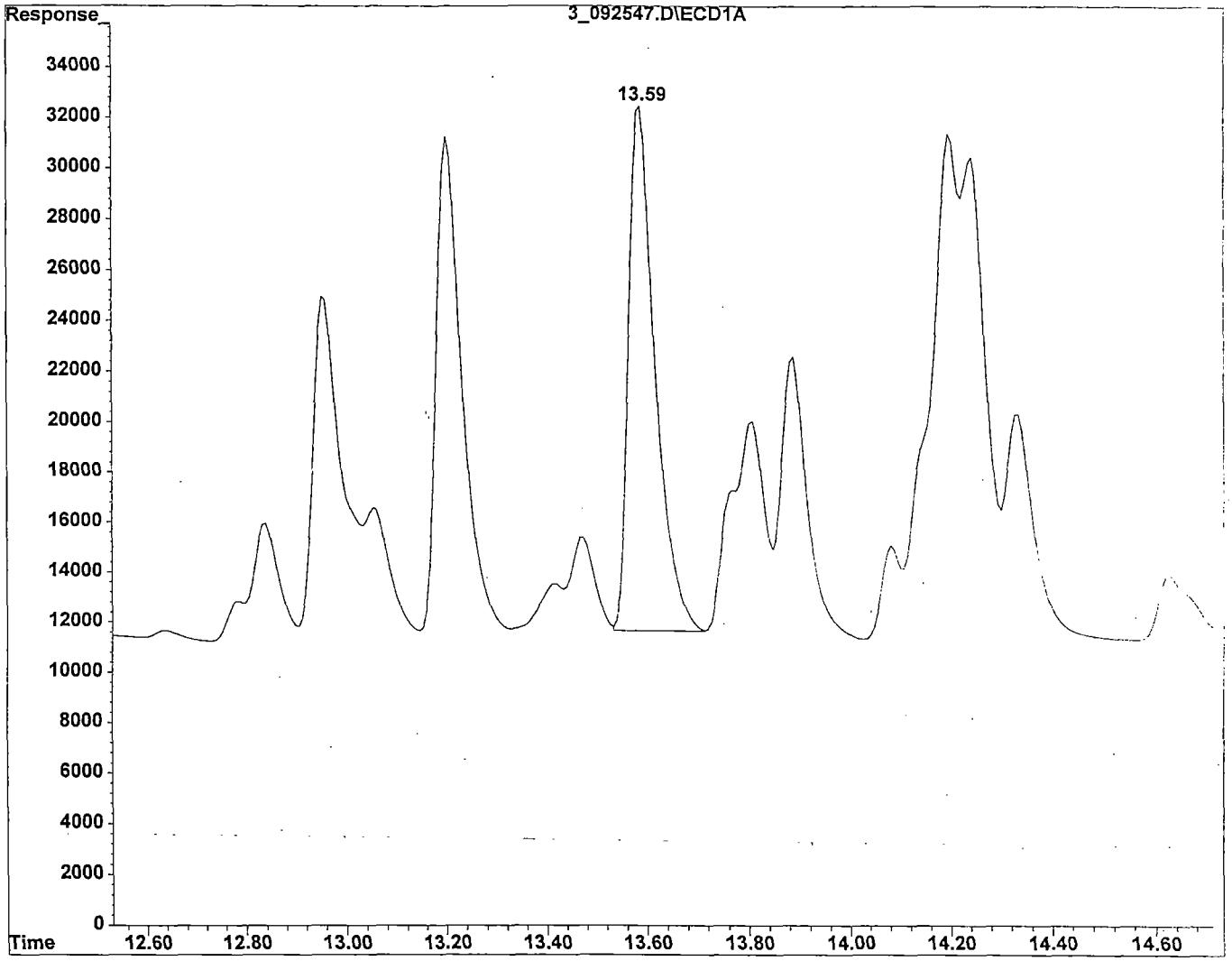
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_25_01\3_092547.D
Date Acquired: 26 Sep 2001 21:50
Inst: HP_03 Operator ID: BTB
Name: AR1660L33D
Misc: 5-293-7
Method: F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 27 8:27 2001 Quant Results File: XPCBI24.RES



Aroclor-1260 {2} 13.59min area: 759208 m BTB 092701

Integration Time Range: 13.53 - 13.71

F:\HPCHEM\HP\3\DATA\09_25_01\3_092547.D
Report generated: Thu Sep 27 08:33:10 2001

Continuing Calibration Report HP_03

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Mon Oct 01 10:38:26 2001
Response via : Initial Calibration

Continuing Calibration File: 3_092548.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	46.439	56.845	E3	-22.4#	123
2	L1	Aroclor-1016	1.110	1.369	E3	-23.2#	120
3	L1	Aroclor-1016 {2}	2.178	2.401	E3	-10.2	112
4	L1	Aroclor-1016 {3}	4.142	4.335	E3	-4.7	104
5	L1	Aroclor-1016 {4}	3.276	3.089	E3	5.7	97
6	L1	Aroclor-1016 {5}	1.741	1.608	E3	7.6	91
17	L7	Aroclor-1260	1.678	1.486	E3	11.4	89
18	L7	Aroclor-1260 {2}	2.472	2.187	E3	11.5	90
19	L7	Aroclor-1260 {3}	1.705	1.551	E3	9.0	91
20	L7	Aroclor-1260 {4}	3.780	3.493	E3	7.6	94
21	L7	Aroclor-1260 {5}	2.896	2.645	E3	8.7	92
22	S	DCB	45.255	42.759	E3	5.5	95

Signal #2
Continuing Calibration File: 3_092548.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	14.611	15.254	E3	-4.4	105
2	L1	Aroclor-1016	351.179	360.627		-2.7	103
3	L1	Aroclor-1016 {2}	806.157	808.170		-0.2	101
4	L1	Aroclor-1016 {3}	1.606	1.608	E3	-0.1	101
5	L1	Aroclor-1016 {4}	716.341	715.673		0.1	103
6	L1	Aroclor-1016 {5}	472.257	451.283		4.4	97
17	L7	Aroclor-1260	1.142	1.010	E3	11.5	90
18	L7	Aroclor-1260 {2}	732.350	647.089		11.6	89
19	L7	Aroclor-1260 {3}	913.772	849.736		7.0	94
20	L7	Aroclor-1260 {4}	0.969	0.873	E3	9.8	91
21	L7	Aroclor-1260 {5}	679.709	615.216		9.5	92
22	S	DCB	21.654	19.753	E3	8.8	92

(#) = Out of Range SPCC's out = 0 CCC's out = 0

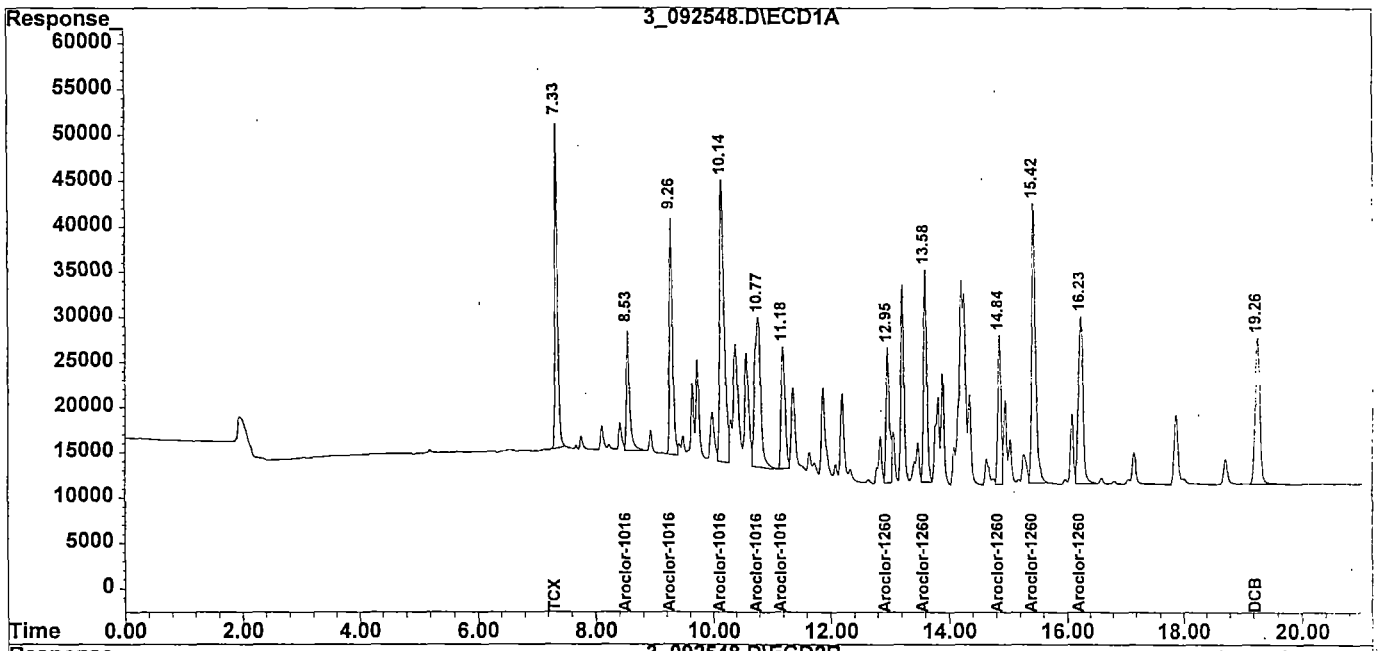
3_092548.D XPCBI24.M Mon Oct 01 10:38:34 2001

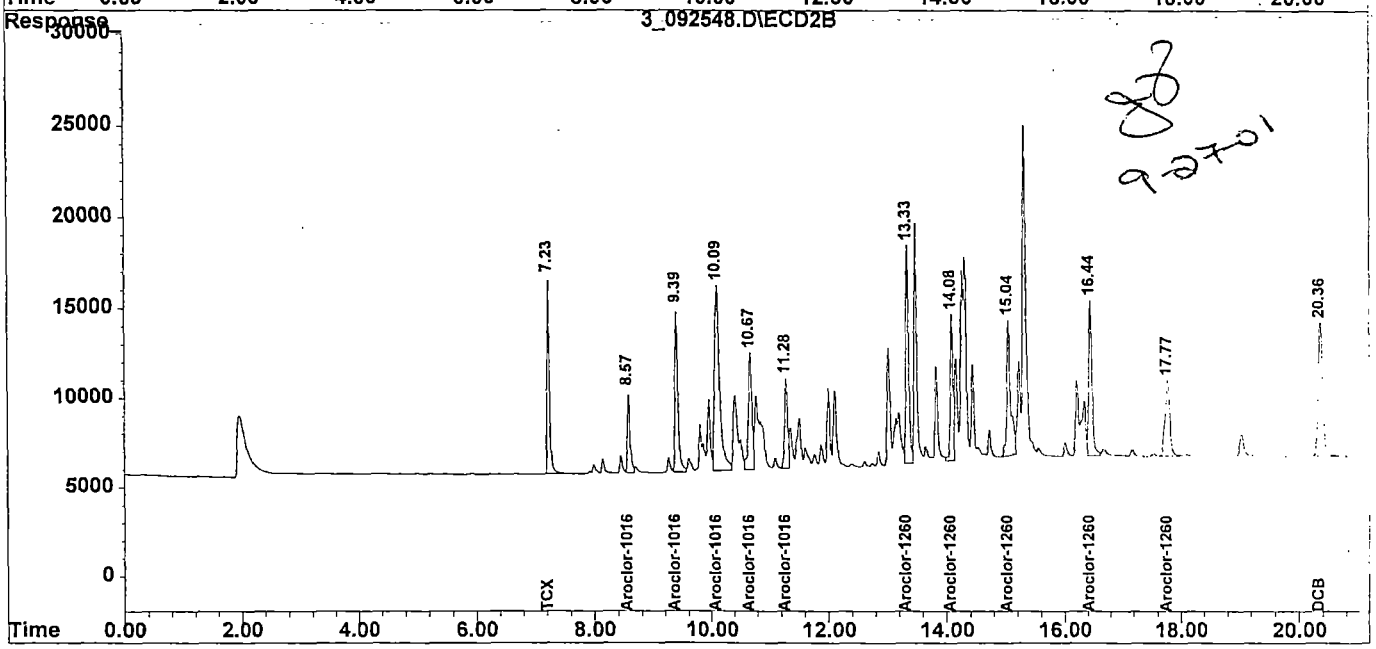
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092548.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092548.D\ECD2B.CH
Acq On : 26 Sep 2001 22:15 Operator: BTB
Sample : AR1660L33E Inst : HP_03
Misc : 5-293-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:29 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B





9-27-01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092548.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092548.D\ECD2B.CH
Acq On : 26 Sep 2001 22:15 Operator: BTB
Sample : AR1660L33E Inst : HP_03
Misc : 5-293-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:29 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	1136891	305083	24.5	20.9
22)	S DCB	19.26	20.36	855172	395057	18.9	18.2
	Target Compounds:						
2)	L1 Aroclor-1016	8.53	8.58	547435	144251	450.3	410.8
3)	L1 Aroclor-1016 {2}	9.27	9.39	960490	323268	434.8	401.0
4)	L1 Aroclor-1016 {3}	10.14	10.10	1733849	643262	418.6	400.5
5)	L1 Aroclor-1016 {4}	10.77	10.67	1235796	286269	377.2	399.6
6)	L1 Aroclor-1016 {5}	11.18	11.28	643306	180513	369.4	382.2
	Sum Aroclor-1016			5120876	1577563	2050.4	1994.1
	Average Aroclor-1016					410.078	398.814
17)	L7 Aroclor-1260	12.96	13.33	594438	404123	354.3	354.0
18)	L7 Aroclor-1260 {2}	13.59	14.09	874816	258836	353.9m BTB	353.4
19)	L7 Aroclor-1260 {3}	14.84	15.05	620520	339894	363.8 092701	372.0
20)	L7 Aroclor-1260 {4}	15.42	16.44	1397395	349397	369.7	360.7
21)	L7 Aroclor-1260 {5}	16.23	17.78	1058004	246086	365.4	362.0
	Sum Aroclor-1260			4545174	1598336	1807.1	1802.1
	Average Aroclor-1260					361.427	360.425

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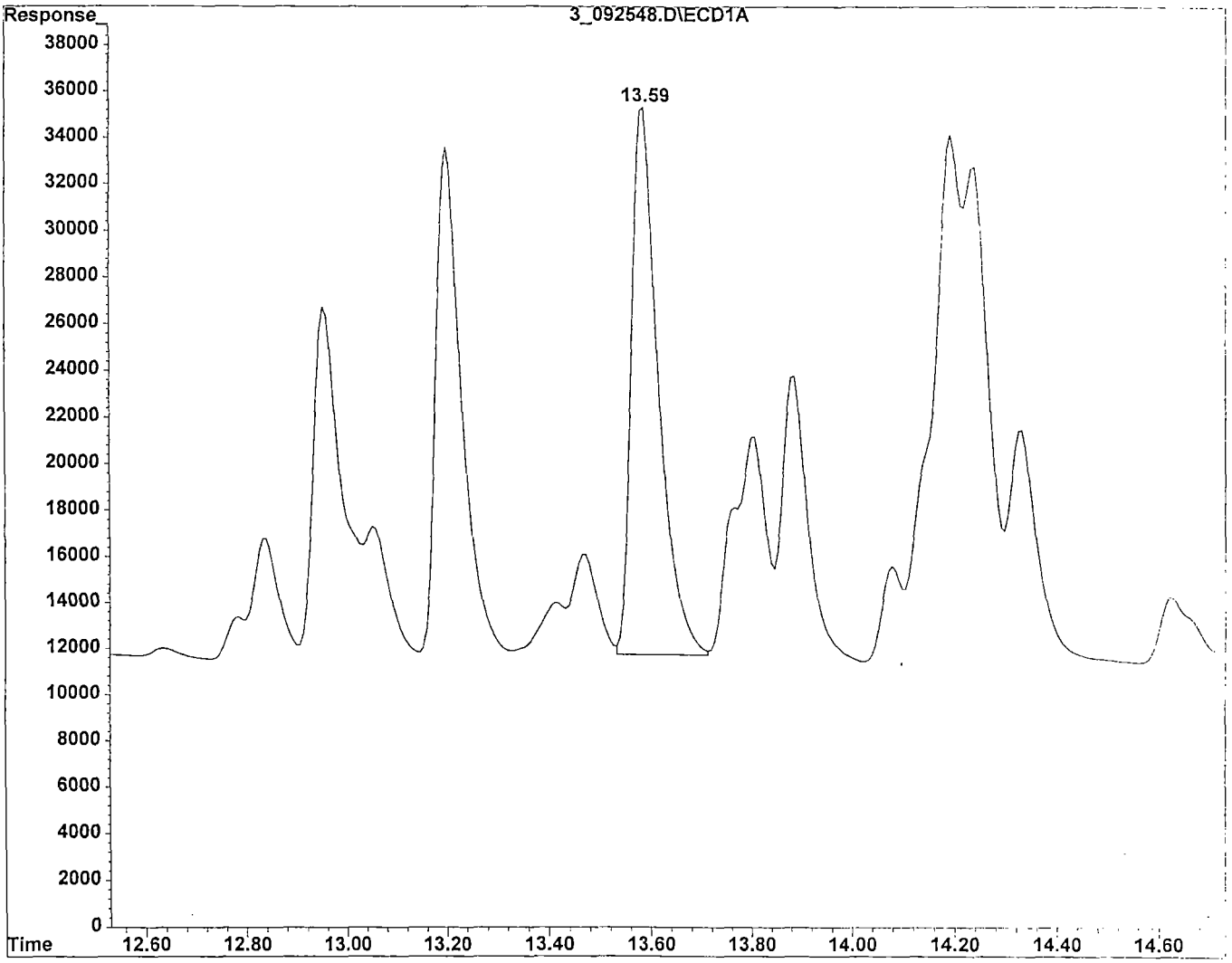
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_25_01\3_092548.D
Date Acquired: 26 Sep 2001 22:15
Inst: HP_03 Operator ID: BTB
Name: AR1660L33E
Misc: 5-293-7
Method: F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 27 8:29 2001 Quant Results File: XPCBI24.RES



Aroclor-1260 {2} 13.59min area: 874816 m BTB 092701

Integration Time Range: 13.53 - 13.71

F:\HPCHEM\HP\3\DATA\09_25_01\3_092548.D
Report generated: Thu Sep 27 08:31:51 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: BL0908SD

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	

FORM I PCB

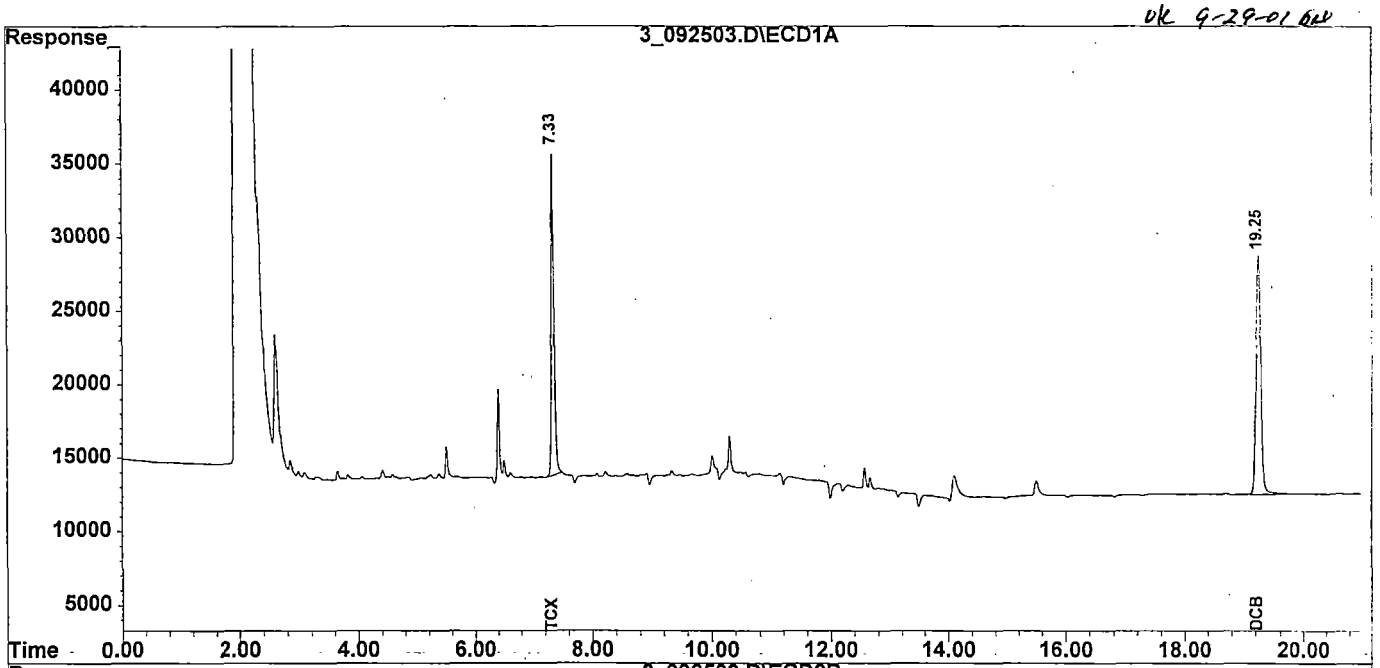
Chromatographic Report

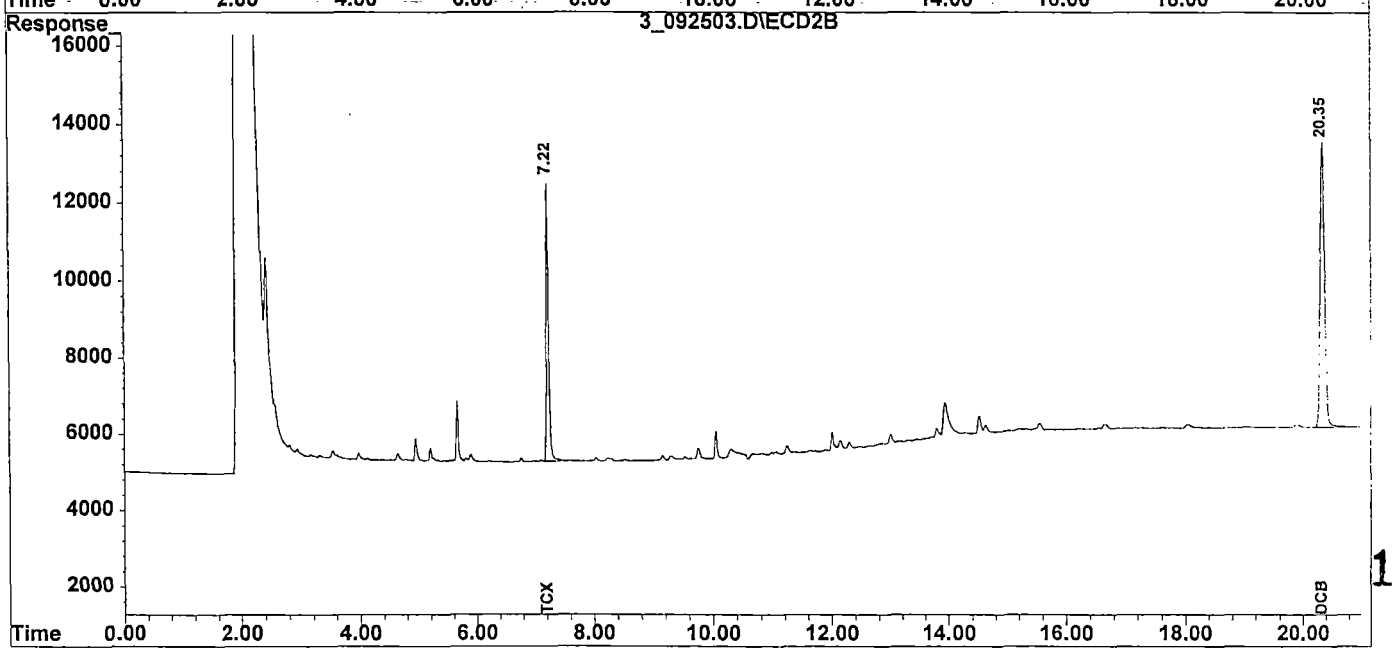
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092503.D\ECD1A.CH Vial: 61
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092503.D\ECD2B.CH
Acq On : 26 Sep 2001 2:50 Operator: BTB
Sample : BL0908SD' *PBLKSD' * Inst : HP_03
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 11:24 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

OK 9-29-01 BW





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092503.D\ECD1A.CH Vial: 61
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092503.D\ECD2B.CH
Acq On : 26 Sep 2001 2:50 Operator: BTB
Sample : BL0908SD *PBLKSD * Inst : HP_03
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 11:24 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	696970	206412	5.003	4.709
	Spiked Amount 6.667			Recovery	=	75.05%	70.64%
22)	S DCB	19.25	20.35	878444	390533	6.470	6.012
	Spiked Amount 6.667			Recovery	=	97.05%	90.18%

Target Compounds:

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK3B

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

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: 09/26/01

Injection Volume: 0.5(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.

PIBLK3B

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

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: 09/26/01

Injection Volume: 0.5(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

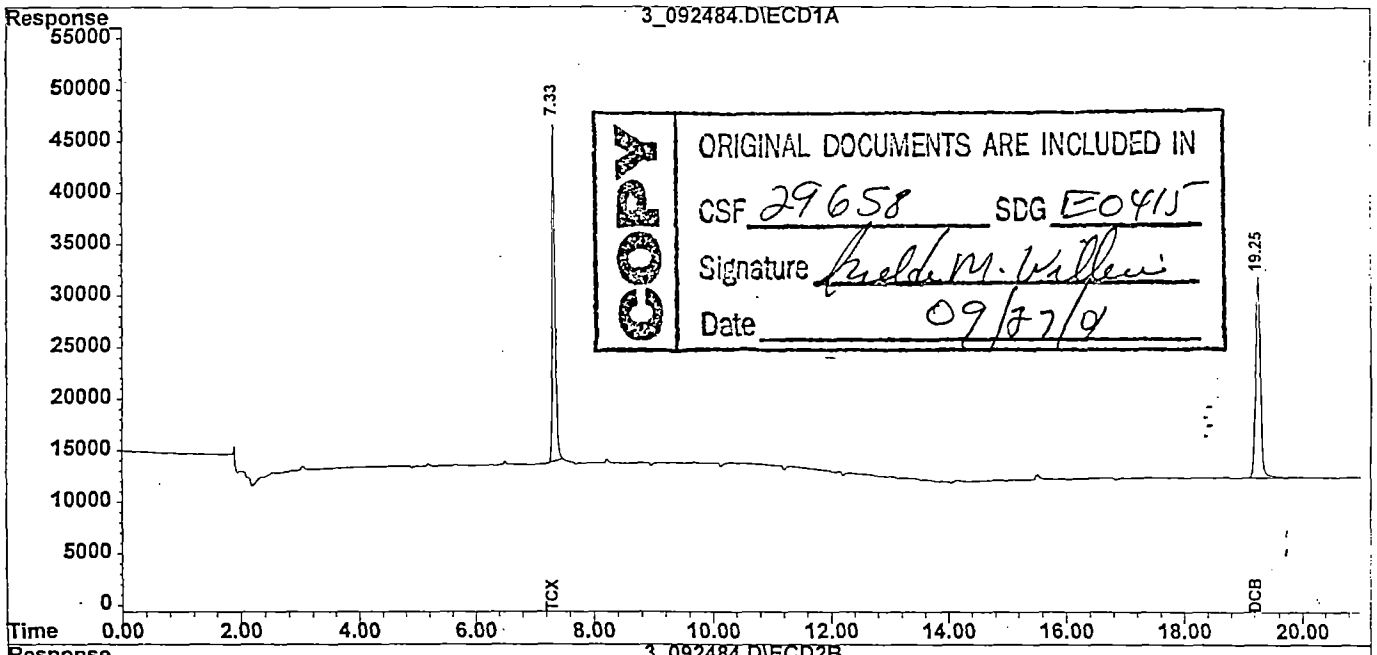
FORM I PCB

Chromatographic Report

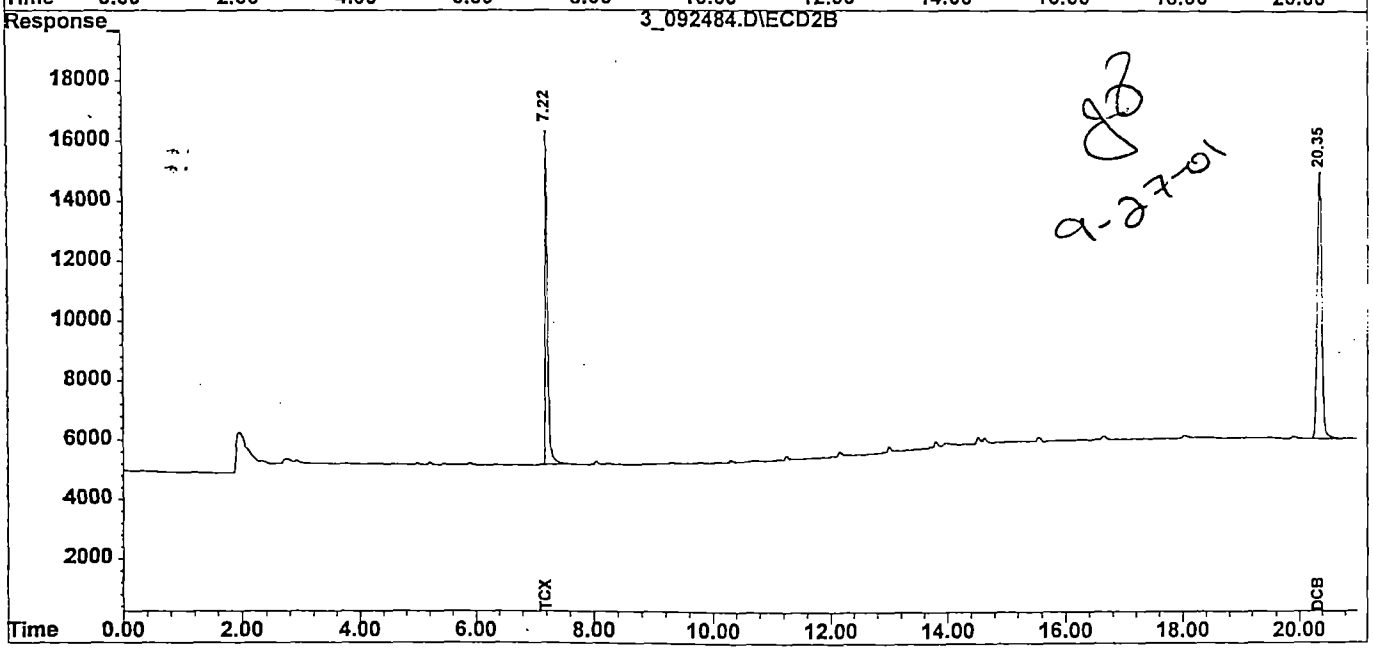
Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092484.D\ECD1A.CH Vial: 56
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092484.D\ECD2B.CH
Acq On : 26 Sep 2001 00:42 Operator: BTB
Sample : PIBLK3B Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 8:14 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B



ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29658 SDG E0415
Signature Freda M. Williams
Date 09/27/01



9-27-01

193

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092484.D\ECD1A.CH Vial: 56
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092484.D\ECD2B.CH
Acq On : 26 Sep 2001 00:42 Operator: BTB
Sample : PIBLK3B Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 8:14 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.34	7.22	1076020	322867	23.2	22.1
22)	S DCB	19.25	20.35	1085307	484824	24.0	22.4

Target Compounds:

194

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK3C

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

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: 09/26/01

Injection Volume: 0.5(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.

PIBLK3C

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

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: 09/26/01

Injection Volume: 0.5(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

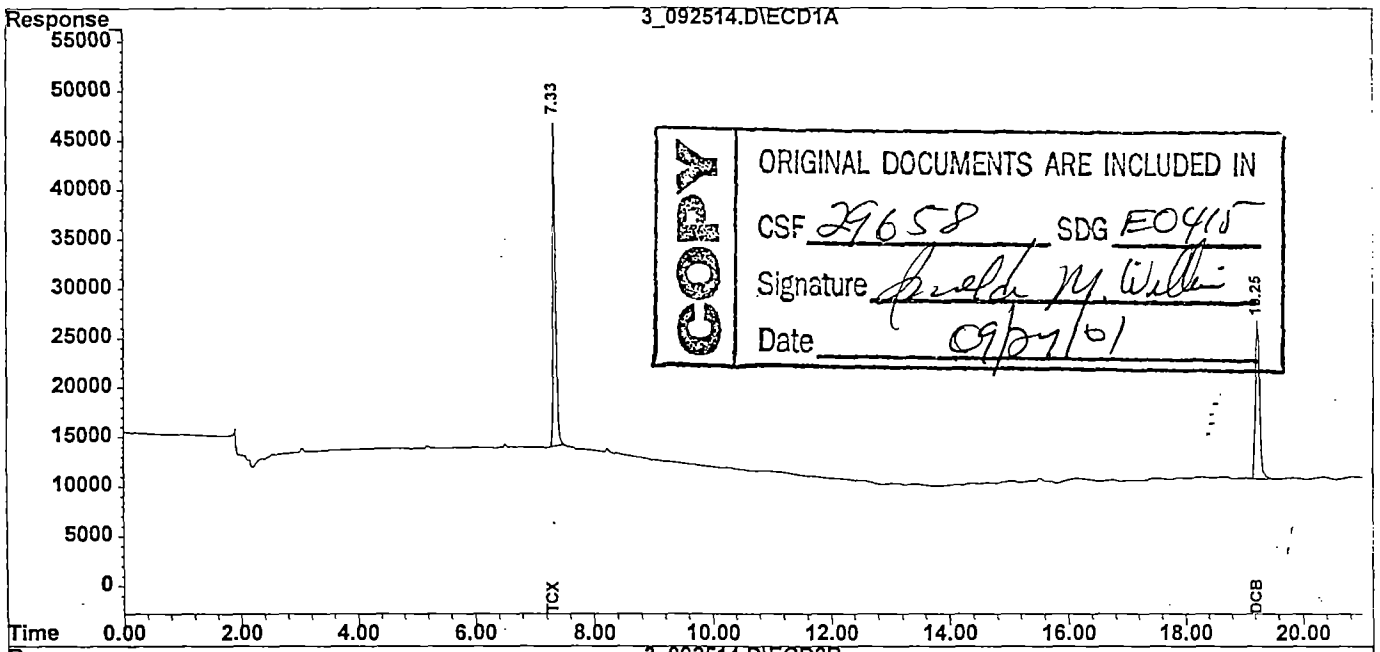
FORM I PCB

Chromatographic Report

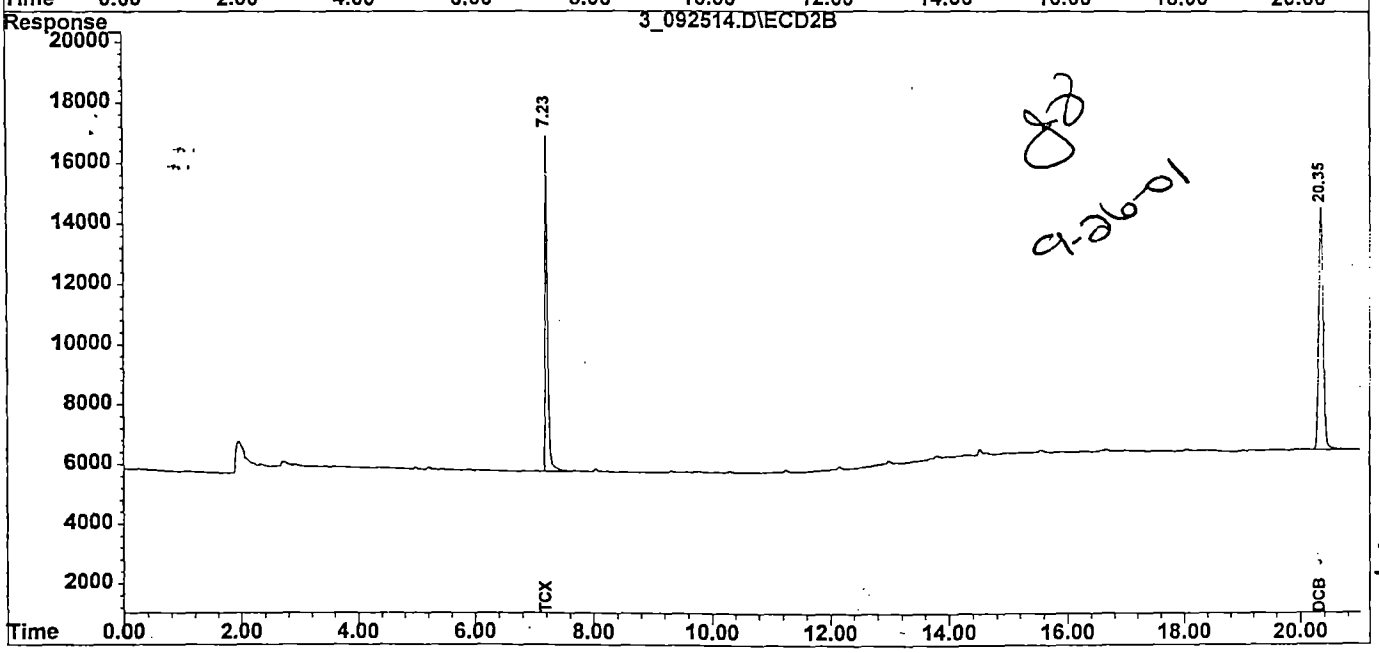
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092514.D\ECD1A.CH Vial: 72
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092514.D\ECD2B.CH
Acq On : 26 Sep 2001 7:33 Operator: BTB
Sample : PIBLK3C Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 9:58 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B



ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29658 SDG E0415
Signature Sheila M. Williams
Date 09/27/01
COPY



9-26-01

197

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092514.D\ECD1A.CH Vial: 72
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092514.D\ECD2B.CH
Acq On : 26 Sep 2001 7:33 Operator: BTB
Sample : PIBLK3C Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 9:58 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	1041174	318779	22.4	21.8
22)	S DCB	19.26	20.36	844527	426065	18.7	19.7

Target Compounds:

198

(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.

PIBLK3D

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

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: 09/26/01

Injection Volume: 0.5(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.

PIBLK3D

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

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: 09/26/01

Injection Volume: 0.5(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

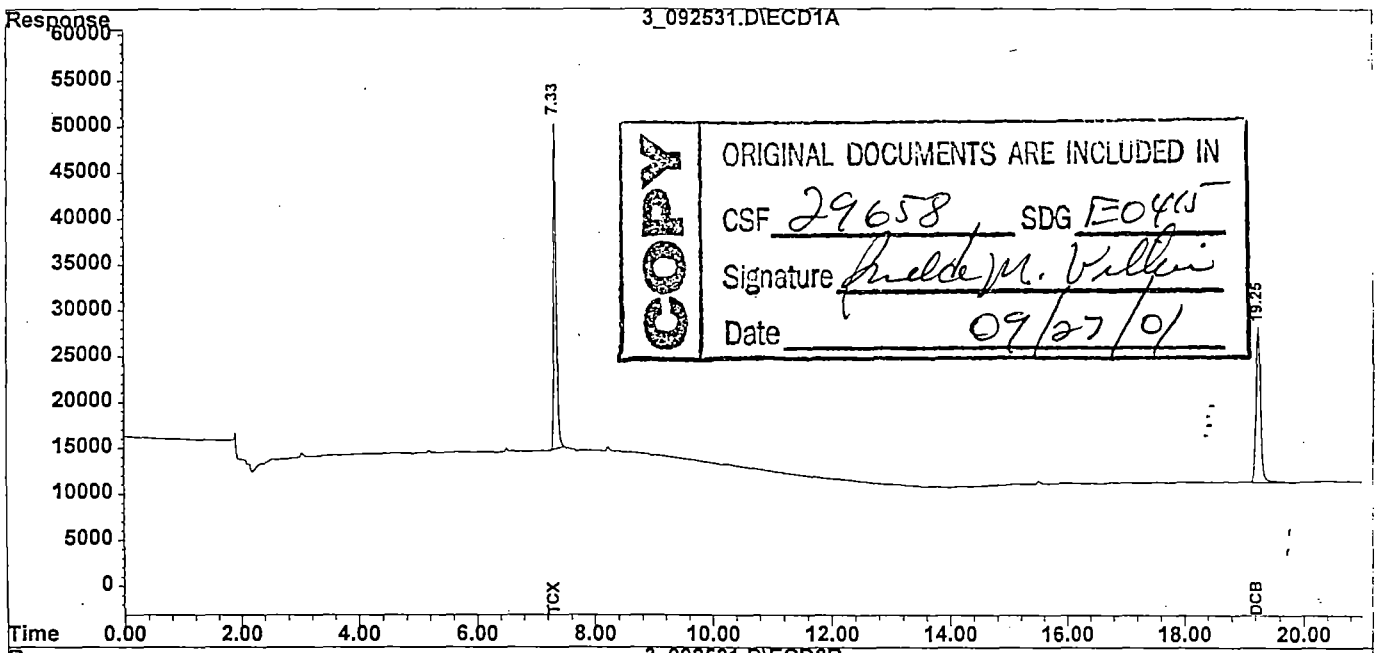
FORM I PCB

Chromatographic Report

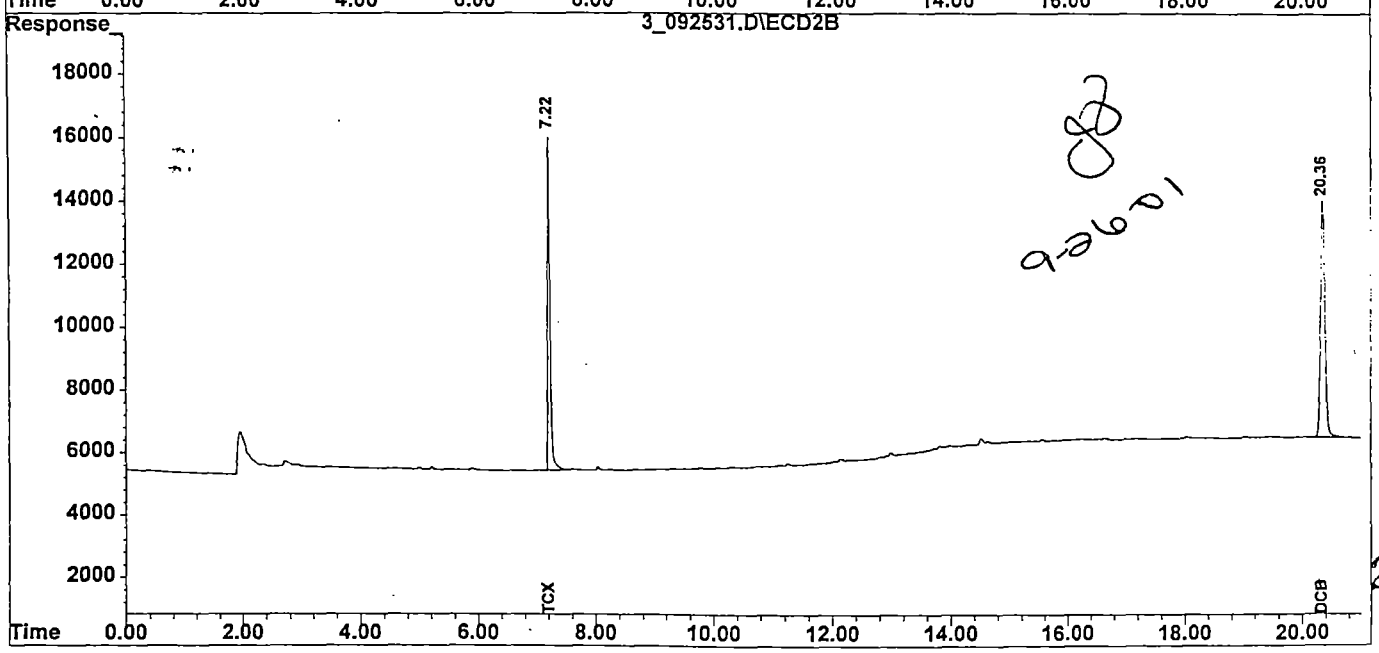
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092531.D\ECD1A.CH Vial: 89
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092531.D\ECD2B.CH
Acq On : 26 Sep 2001 14:58 Operator: BTB
Sample : PIBLK3D Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 15:49 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B



COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29658 SDG E0445
Signature Gretchen M. Vellini
Date 09/27/01



92601

201

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092531.D\ECD1A.CH Vial: 89
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092531.D\ECD2B.CH
Acq On : 26 Sep 2001 14:58 Operator: BTB
Sample : PIBLK3D Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 15:49 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	1141239	308808	24.6	21.1
22)	S DCB	19.26	20.36	906197	403560	20.0	18.6

Target Compounds:

202

(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.

PIBLK3E

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

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: 09/26/01

Injection Volume: 0.5(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.

PIBLK3E

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

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: 09/26/01

Injection Volume: 0.5(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

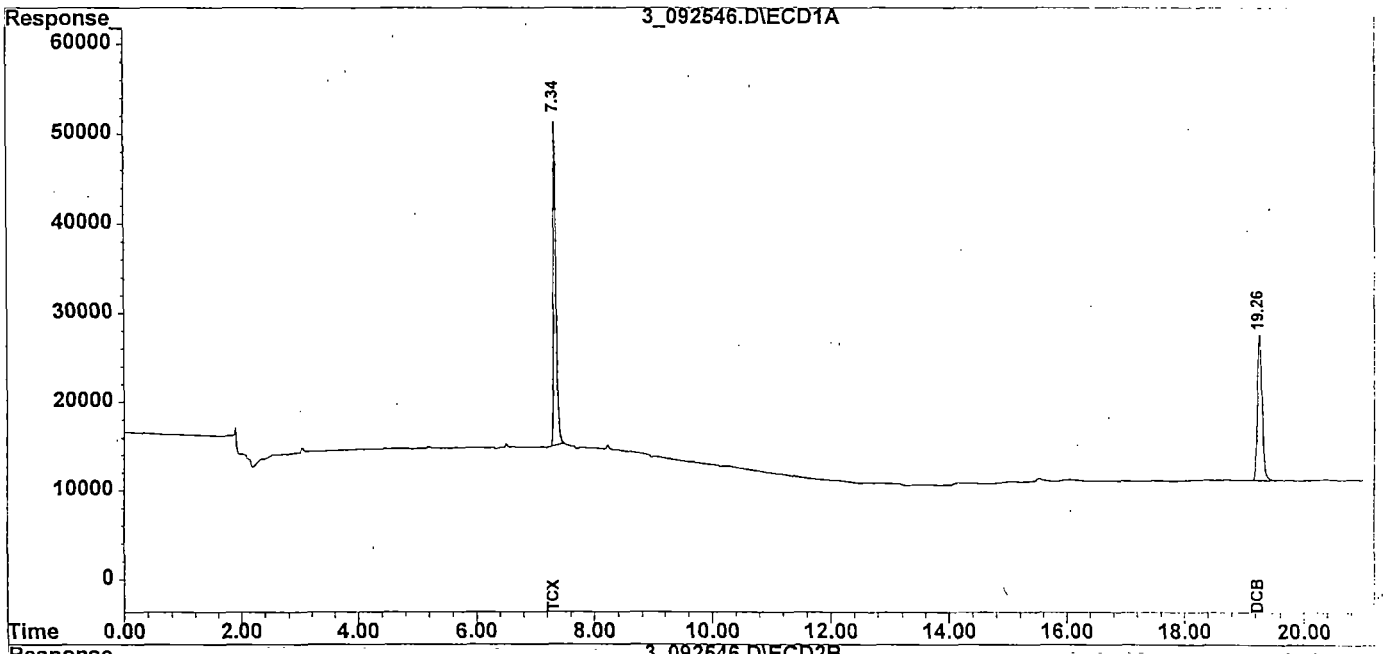
FORM I PCB

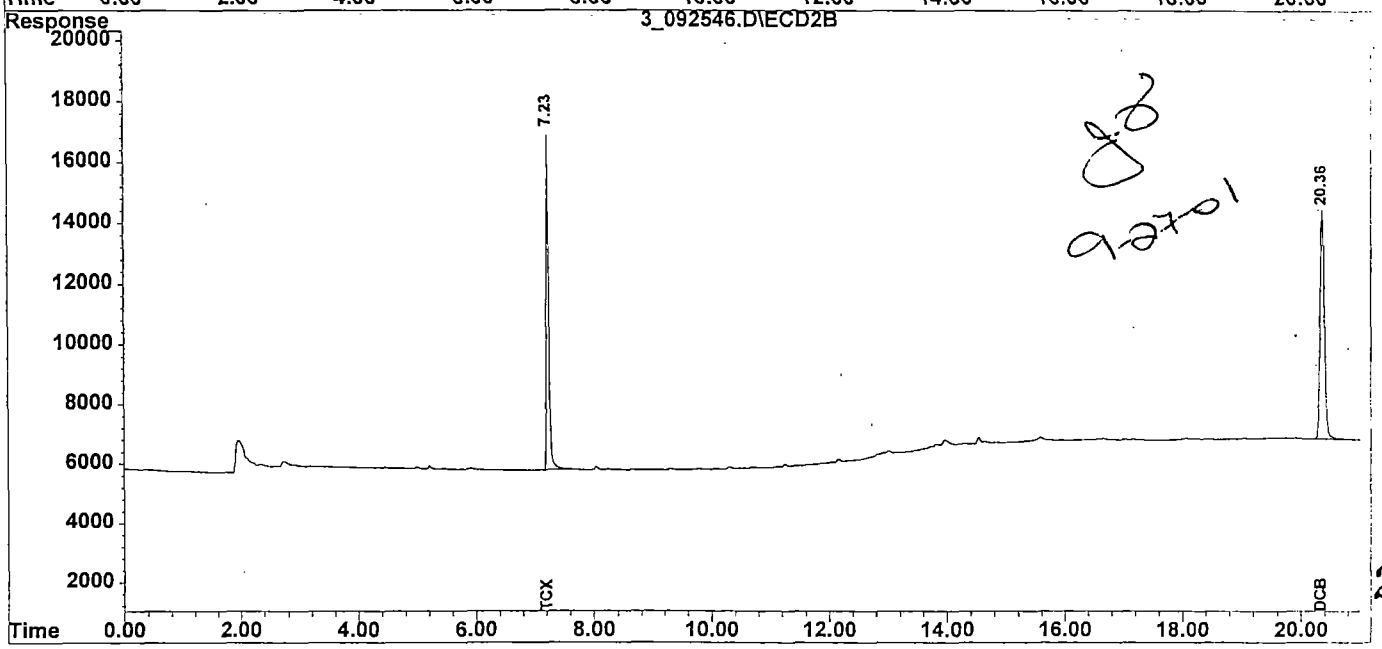
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092546.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092546.D\ECD2B.CH
Acq On : 26 Sep 2001 21:24 Operator: BTB
Sample : PIBLK3E Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:26 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B





9-27-01

205

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092546.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092546.D\ECD2B.CH
Acq On : 26 Sep 2001 21:24 Operator: BTB
Sample : PIBLK3E Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 8:26 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	1172685	320002	25.3	21.9
22)	S DCB	19.27	20.36	857648	406198	19.0	18.8

Target Compounds:

206

(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.

PIBLK3X

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

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: 09/24/01

Injection Volume: 0.5(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.

PIBLK3X

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

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: 09/24/01

Injection Volume: 0.5(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

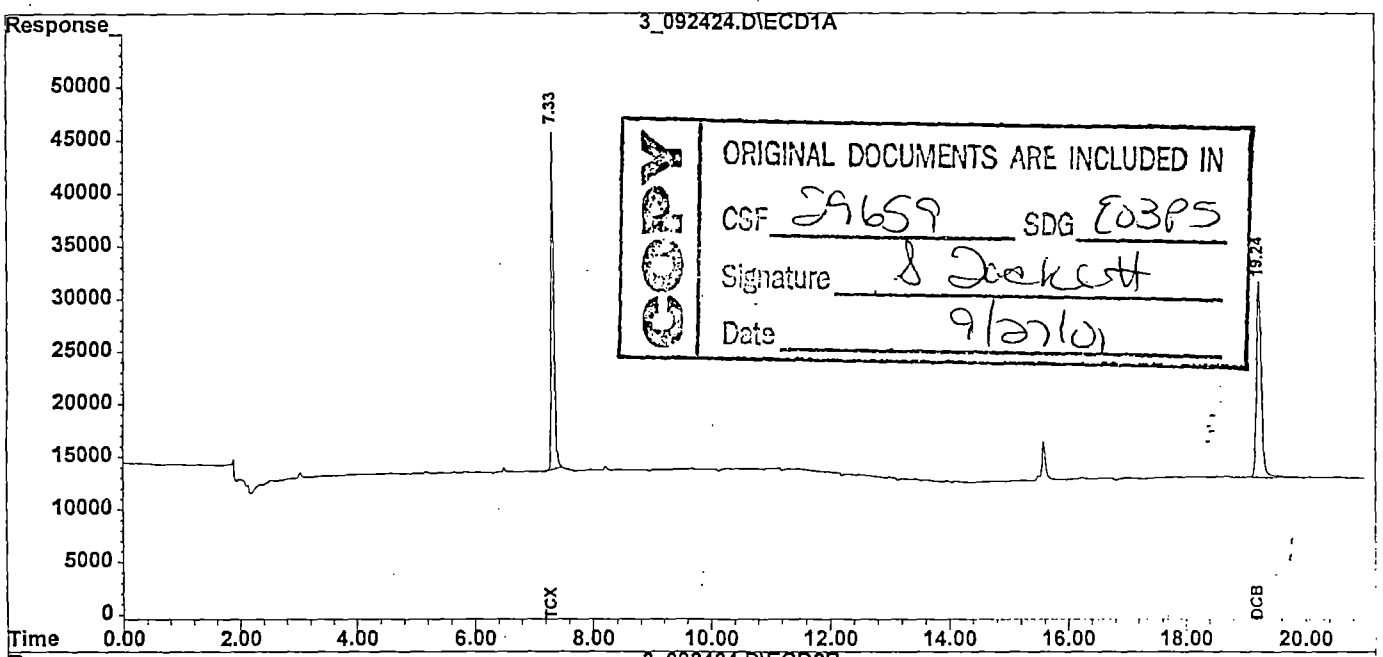
FORM I PCB

Chromatographic Report

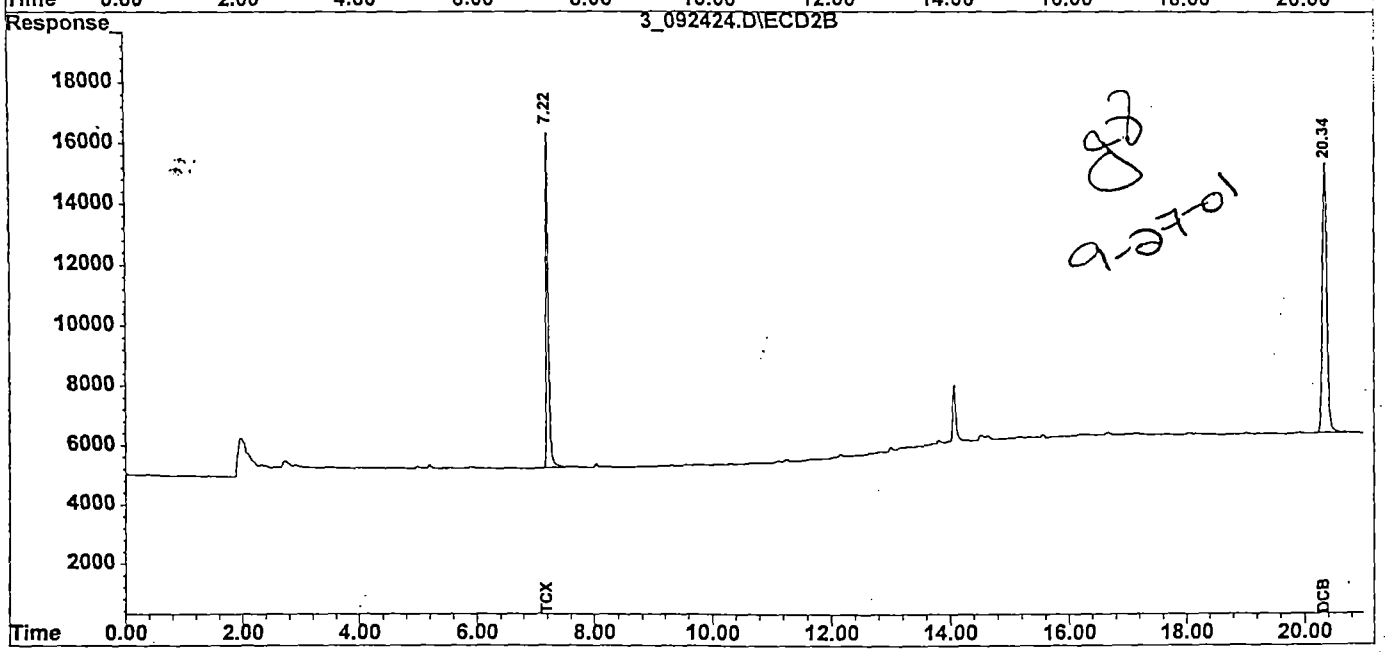
Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092424.D\ECD1A.CH Vial: 96
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092424.D\ECD2B.CH
Acq On : 24 Sep 2001 23:04 Operator: BTB
Sample : PIBLK3X Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 9:26 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B



ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29659 SDG E03P5
Signature S Jackett
Date 9/27/01



gd
9-27-01

209

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092424.D\ECD1A.CH Vial: 96
Signal #2 : F:\HPCHEM\HP\3\DATA\09_24_01\3_092424.D\ECD2B.CH
Acq On : 24 Sep 2001 23:04 Operator: BTB
Sample : PIBLK3X Inst : HP_03
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 25 9:26 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_24_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_16_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.33	7.22	1014415	318147	18.7	19.6
22)	S DCB	19.24	20.35	1036402	477149	18.4	19.5
	Target Compounds:						

210

(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.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: LC0908SD

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	110	
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

FORM I PCB

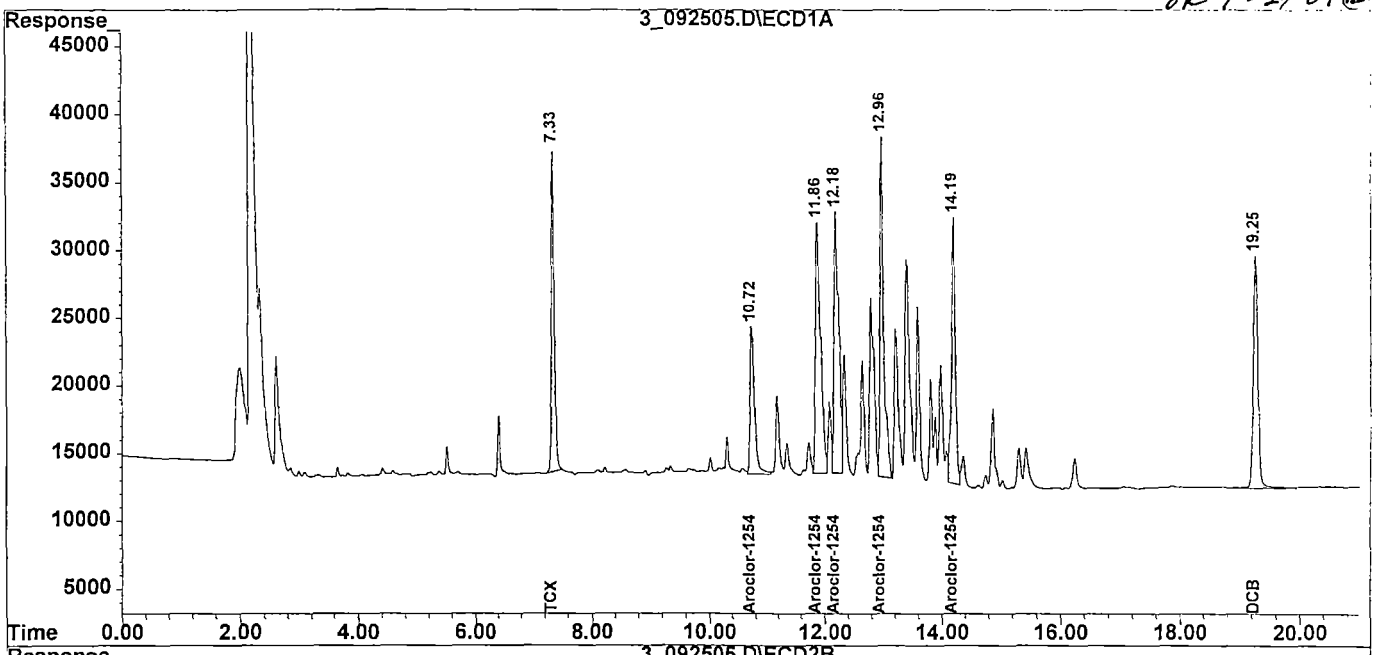
Chromatographic Report

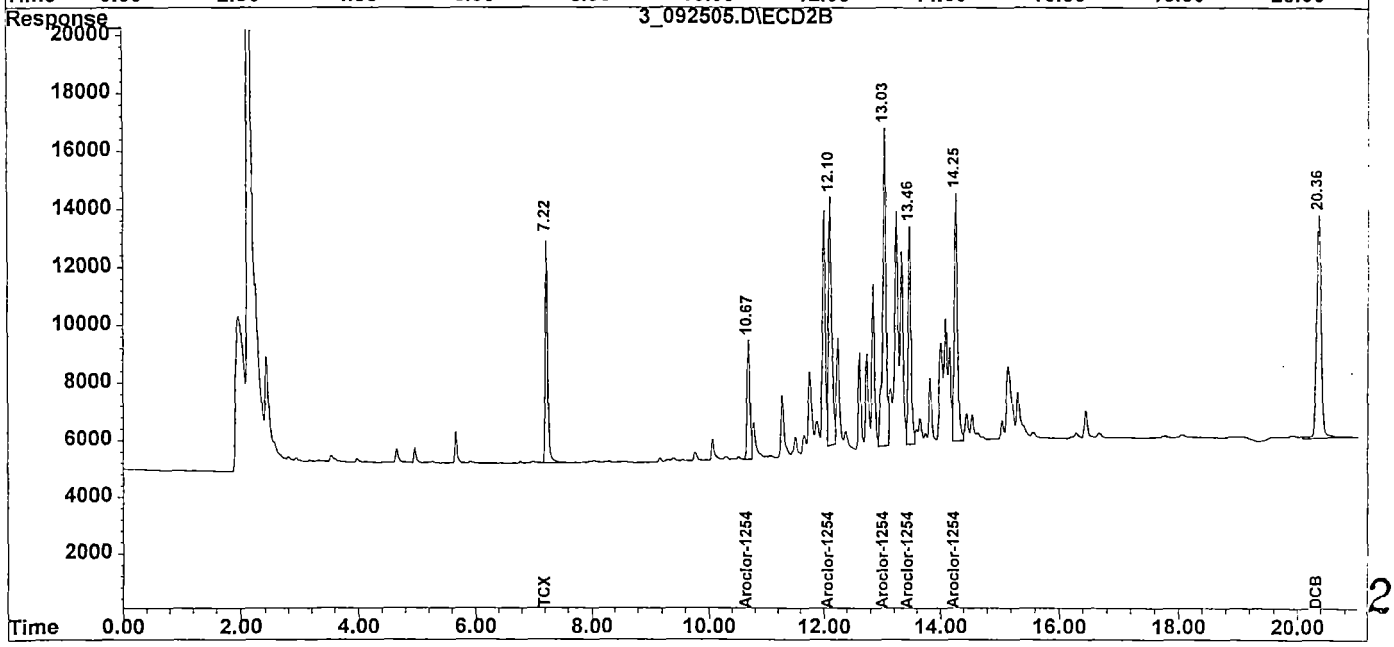
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092505.D\ECD1A.CH Vial: 63
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092505.D\ECD2B.CH
Acq On : 26 Sep 2001 3:41 Operator: BTB
Sample : LC0908SD *ELCS1 * Inst : HP_03
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 11:25 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

ok 9-29-01





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092505.D\ECD1A.CH Vial: 63
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092505.D\ECD2B.CH
Acq On : 26 Sep 2001 3:41 Operator: BTB
Sample : LC0908SD *ELCS1 * Inst : HP_03
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 11:25 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	780035	230992	5.599	5.270
	Spiked Amount 6.667			Recovery	=	83.99%	79.05%
22)	S DCB	19.26	20.36	922022	424702	6.791	6.538
	Spiked Amount 6.667			Recovery	=	101.87%	98.07%
	Target Compounds:						
12)	L6 Aroclor-1254	10.72	10.68	600952	141021	97.5	97.0
13)	L6 Aroclor-1254 {2}	11.87	12.10	1111147	343832	107.4	106.4
14)	L6 Aroclor-1254 {3}	12.18	13.04	1053316	450708	112.3	104.1
15)	L6 Aroclor-1254 {4}	12.96	13.46	1106801	250292	110.5	109.1
16)	L6 Aroclor-1254 {5}	14.19	14.26	891218	333235	112.3	110.1
	Sum Aroclor-1254			4763435	1519087	539.9	526.6
	Average Aroclor-1254					107.973	105.320
						81%	79%

213

(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.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: LD0908SD

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	99	
11096-82-5	Aroclor-1260	33	U
Surrogate amount spiked		6.67	

FORM I PCB

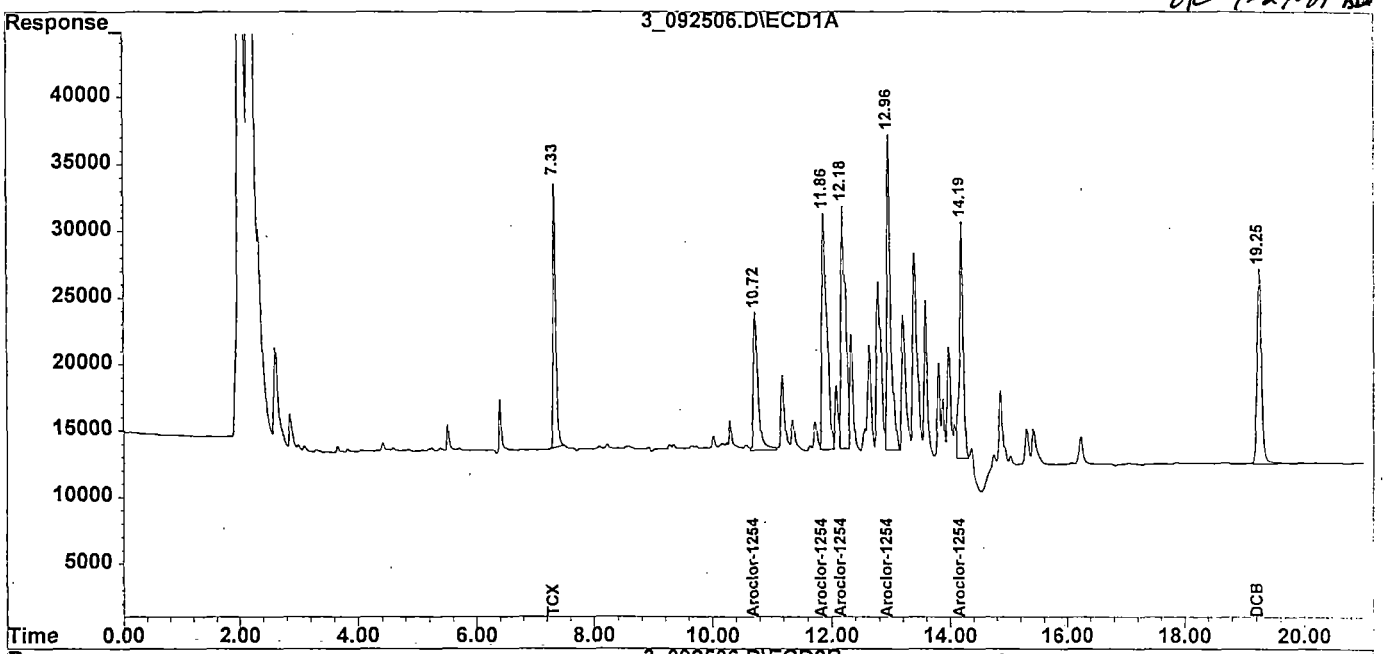
Chromatographic Report

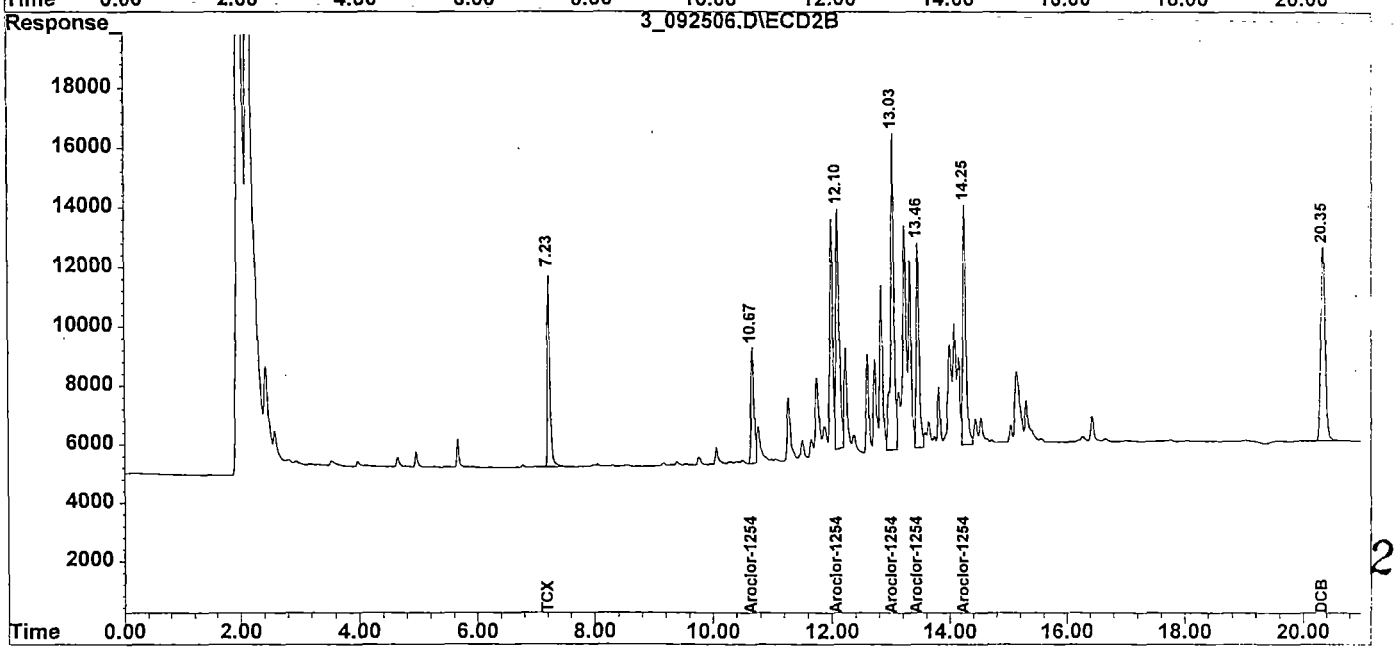
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092506.D\ECD1A.CH Vial: 64
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092506.D\ECD2B.CH
Acq On : 26 Sep 2001 4:07 Operator: BTB
Sample : LD0908SD' *ELCS2' * Inst : HP_03
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 11:25 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

ok 9-29-01





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092506.D\ECD1A.CH Vial: 64
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092506.D\ECD2B.CH
Acq On : 26 Sep 2001 4:07 Operator: BTB
Sample : LD0908SD *ELCS2 * Inst : HP_03
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 11:25 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

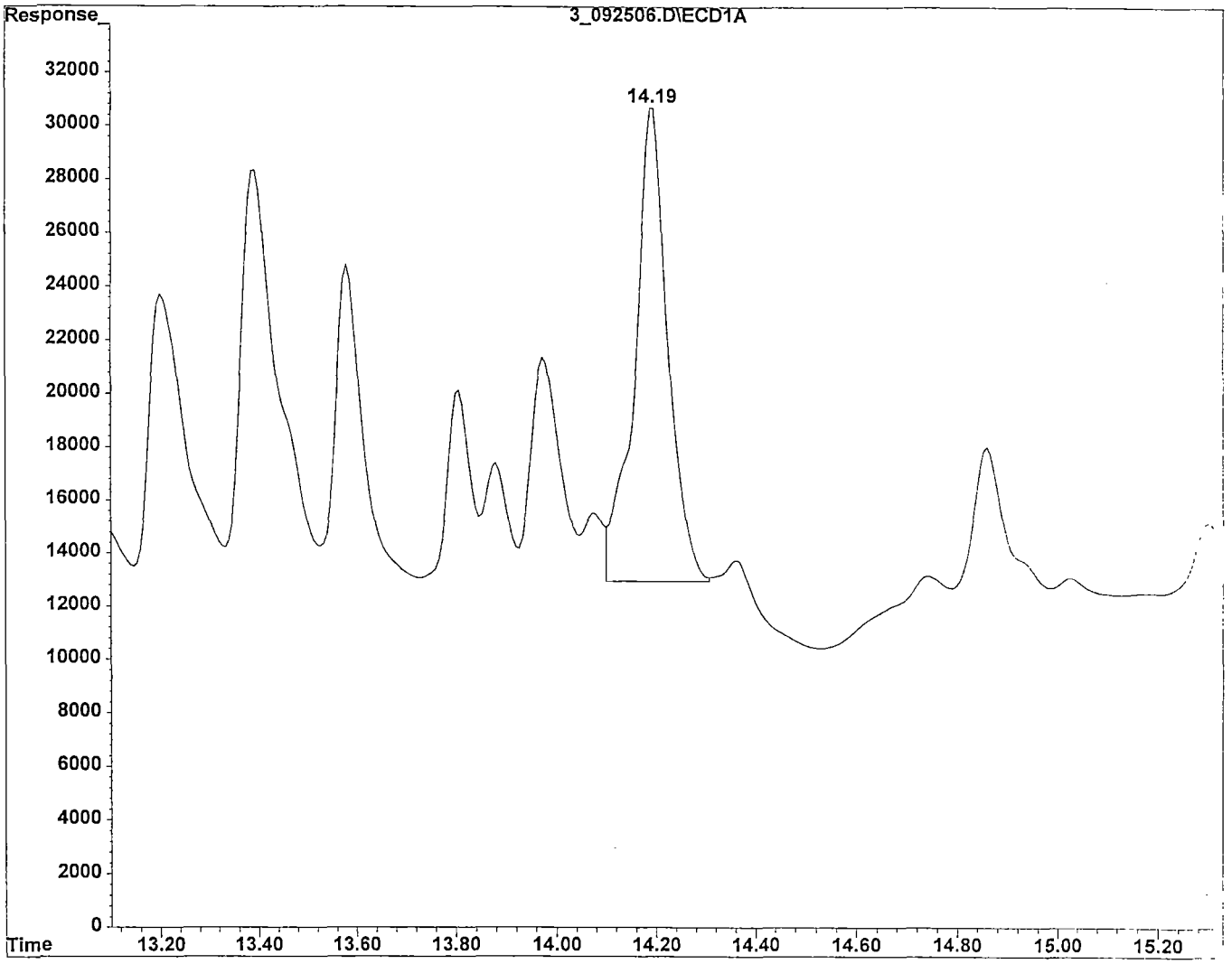
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	653607	195934	4.692	4.470
	Spiked Amount 6.667			Recovery	=	70.38%	67.05%
22)	S DCB	19.25	20.35	779527	342375	5.742	5.270
	Spiked Amount 6.667			Recovery	=	86.13%	79.05%
	Target Compounds:						
12)	L6 Aroclor-1254	10.72	10.68	582067	134081	94.4	92.2
13)	L6 Aroclor-1254 {2}	11.87	12.10	1047776	316109	101.3	97.8
14)	L6 Aroclor-1254 {3}	12.18	13.03	989264	436451	105.5	100.8
15)	L6 Aroclor-1254 {4}	12.96	13.46	1052253	230323	105.0	100.4
16)	L6 Aroclor-1254 {5}	14.19	14.26	811972	308100	102.3m BTB 092601	101.8
	Sum Aroclor-1254			4483332	1425064	508.4	493.0
Average Aroclor-1254						101.684	98.590
						76%	74%

216

(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\3\DATA\09_25_01\3_092506.D
Date Acquired: 26 Sep 2001 4:07
Inst: HP_03 Operator ID: BTB
Name: LD0908SD *ELCS2 *
Misc: **30G/5.0ML*0
Method: F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 26 11:25 2001 Quant Results File: XPCBI24.RES



Aroclor-1254 {5} 14.19min area: 811972 m BTB 092601

Integration Time Range: 14.10 - 14.31

ok 9-29-01

217

F:\HPCHEM\HP\3\DATA\09_25_01\3_092506.D
Report generated: Wed Sep 26 11:39:17 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E04M3MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: 47455.02MS

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

% Moisture: 63 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	89	U
11104-28-2	Aroclor-1221	89	U
11141-16-5	Aroclor-1232	89	U
53469-21-9	Aroclor-1242	89	U
12672-29-6	Aroclor-1248	89	U
11097-69-1	Aroclor-1254	180	P
11096-82-5	Aroclor-1260	89	U
	Surrogate amount spiked	17.90	

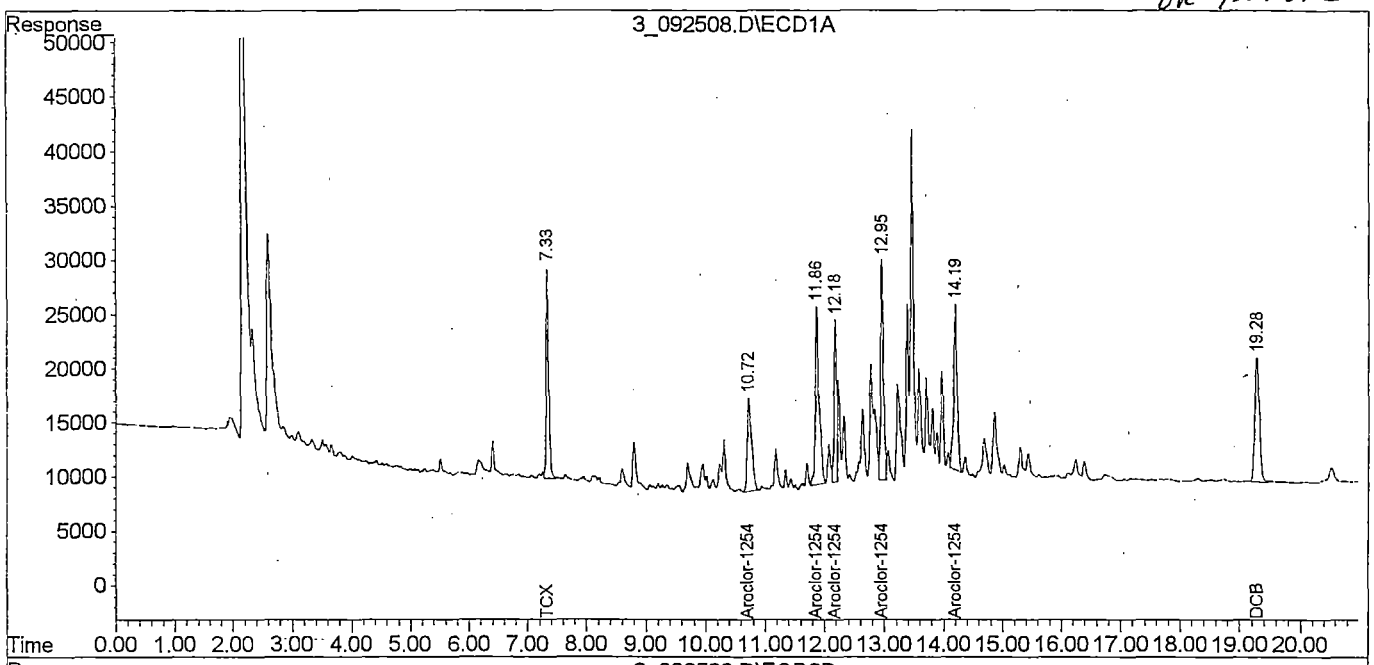
Chromatographic Report

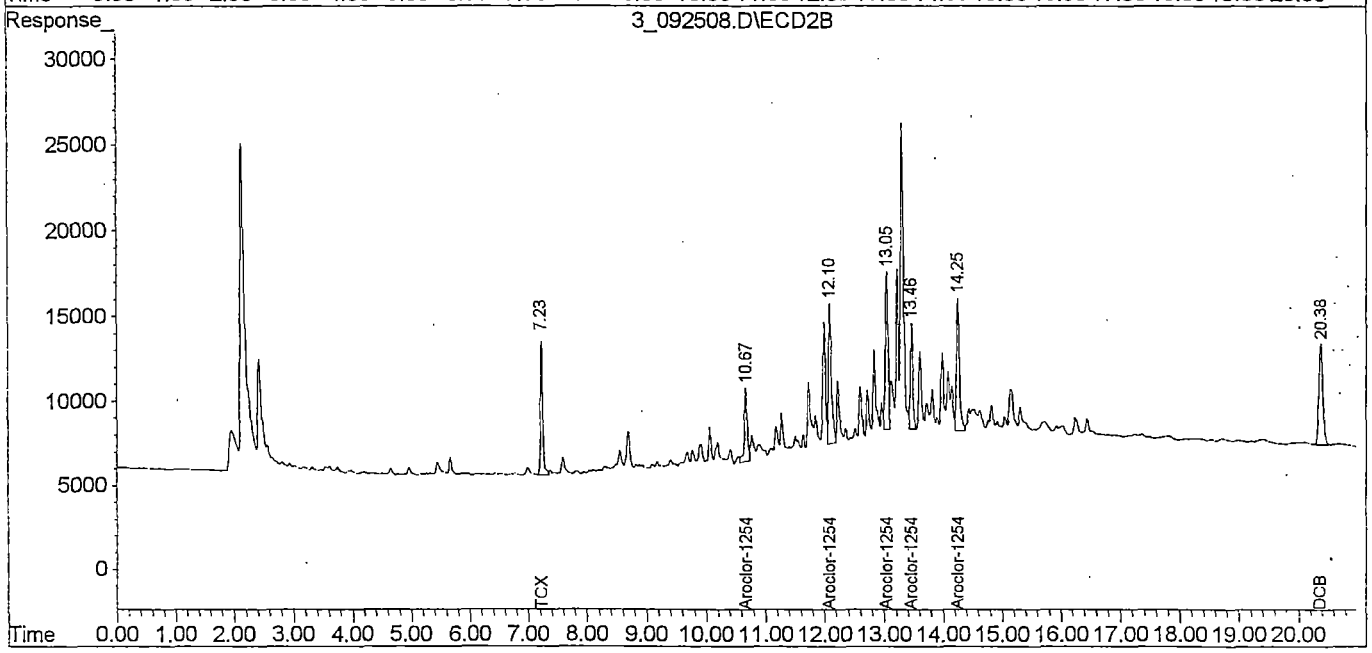
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092508.D\ECD1A.CH Vial: 66
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092508.D\ECD2B.CH
Acq On : 26 Sep 2001 4:58 Operator: BTB
Sample : 47455.02MS *E04M3MS * Inst : HP_03
Misc : *EPA*30.2G/5.0ML*63 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 12:49 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

OK 9-29-01





219

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092508.D\ECD1A.CH Vial: 66
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092508.D\ECD2B.CH
Acq On : 26 Sep 2001 4:58 Operator: BTB
Sample : 47455.02MS *E04M3MS * Inst : HP_03
Misc : *EPA*30.2G/5.0ML*63 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 12:49 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.34	7.23	567475	213452	10.9	13.1	
	Spiked Amount 17.899			Recovery	=	60.90%	73.19%	
22)	S DCB	19.28f	20.38f	596132	298745	11.8	12.3	
	Spiked Amount 17.899			Recovery	=	65.93%	68.72%	
	Target Compounds:							
12)	L6 Aroclor-1254	10.72	10.67	431453	141616	187.9	261.4	#
13)	L6 Aroclor-1254 {2}	11.86	12.10	743302	280165	192.9	232.7	
14)	L6 Aroclor-1254 {3}	12.18	13.05	438458	315980	125.5	195.9m	#
15)	L6 Aroclor-1254 {4}	12.96	13.46	668878	179628	179.2	210.2m	
16)	L6 Aroclor-1254 {5}	14.19	14.25	602509	265748	203.8	235.7m	
	Sum Aroclor-1254			2884601	1183137	889.2	1136.0	
	Average Aroclor-1254					177.844	227.190	

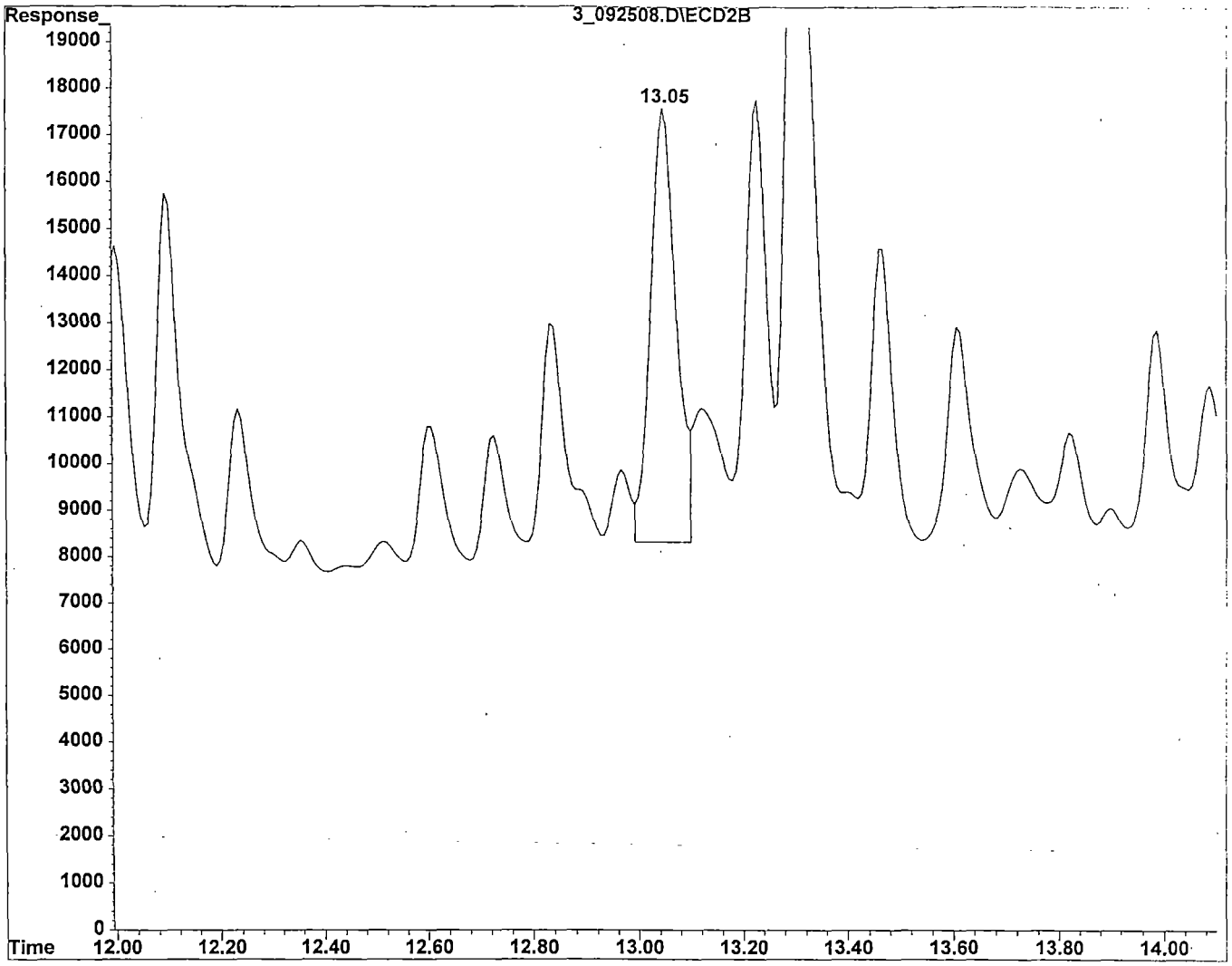
9-29-01

220

(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\3\DATA\09_25_01\3_092508.D
Date Acquired: 26 Sep 2001 4:58
Inst: HP_03 Operator ID: BTB
Name: 47455.02MS *E04M3MS *
Misc: *EPA*30.2G/5.0ML*63
Method: F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 26 11:31 2001 Quant Results File: XPCBI24.RES



Aroclor-1254 {3} #2 13.05min area: 315980 m

Integration Time Range: 12.99 - 13.10

BTB 092601

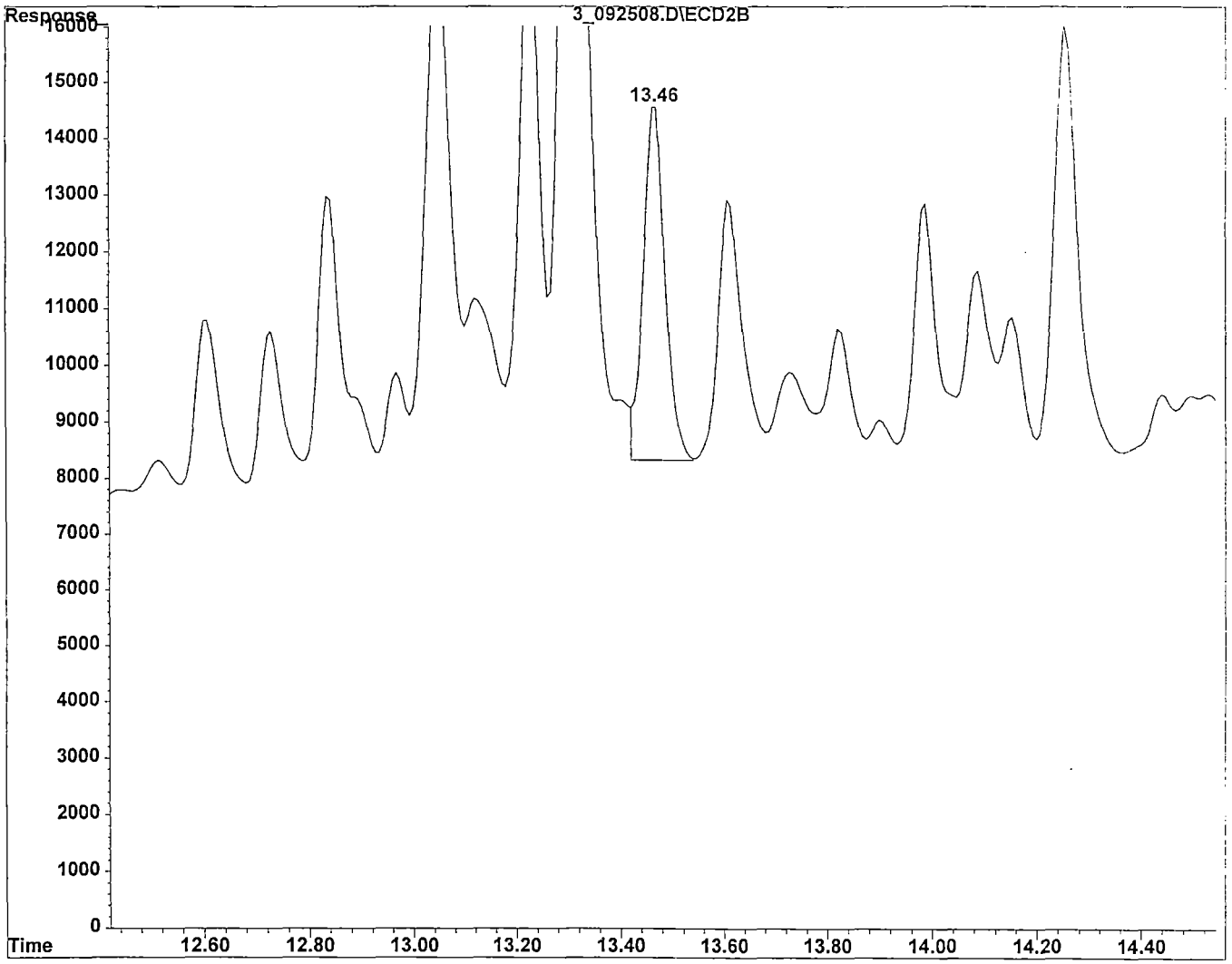
IK 9-29-01

221

F:\HPCHEM\HP\3\DATA\09_25_01\3_092508.D
Report generated: Wed Sep 26 11:39:20 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_25_01\3_092508.D
Date Acquired: 26 Sep 2001 4:58
Inst: HP_03 Operator ID: BTB
Name: 47455.02MS *E04M3MS *
Misc: *EPA*30.2G/5.0ML*63
Method: F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 26 11:31 2001 Quant Results File: XPCBI24.RES



Aroclor-1254 {4} #2 13.46min area: 179628 m

Integration Time Range: 13.42 - 13.54

BTB 092601

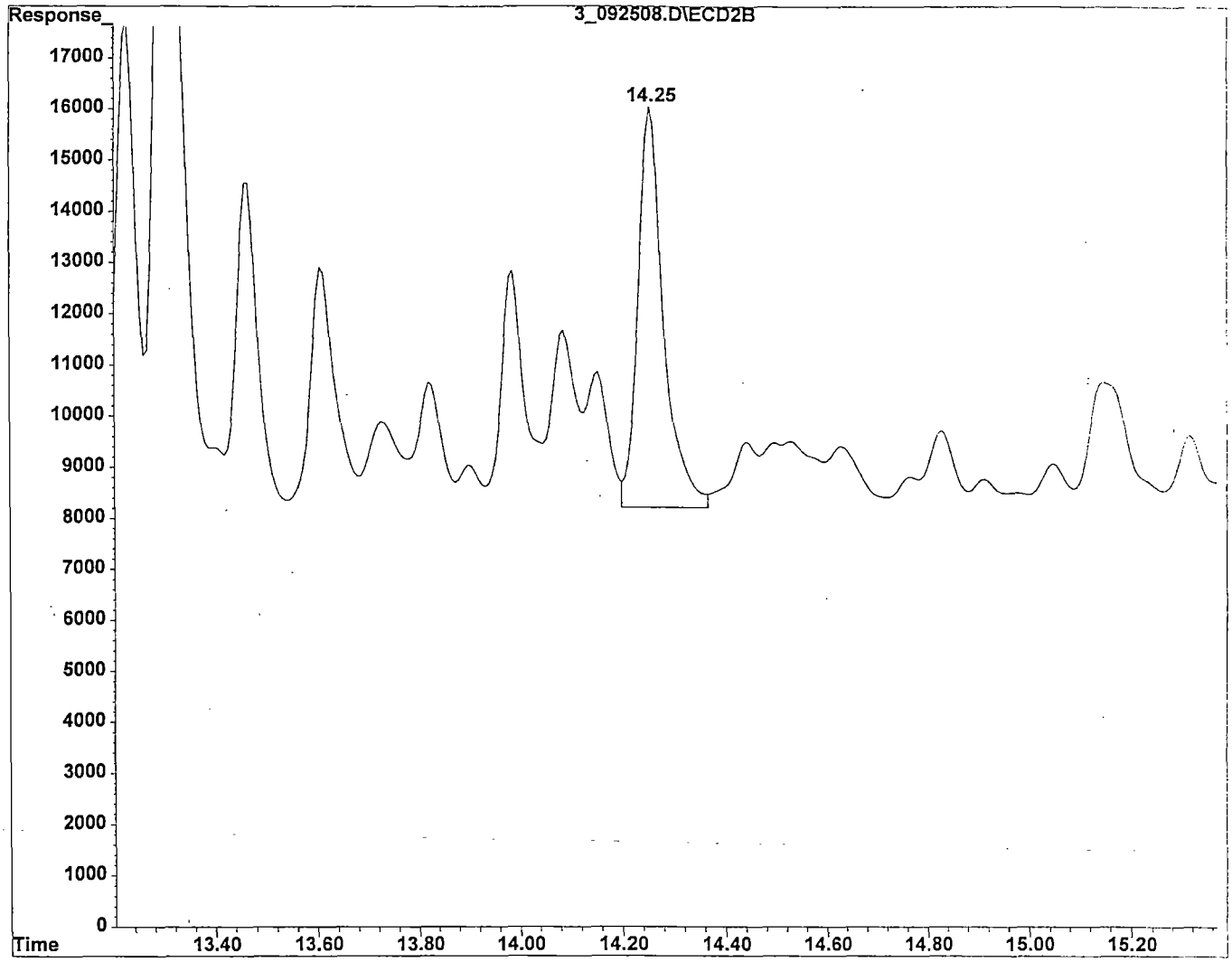
OK 9-29-01

222

F:\HPCHEM\HP\3\DATA\09_25_01\3_092508.D
Report generated: Wed Sep 26 11:39:20 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_25_01\3_092508.D
Date Acquired: 26 Sep 2001 4:58
Inst: HP_03 Operator ID: BTB
Name: 47455.02MS *E04M3MS *
Misc: *EPA*30.2G/5.0ML*63
Method: F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 26 11:31 2001 Quant Results File: XPCBI24.RES



Aroclor-1254 {5} #2 14.25min area: 265748 m

ok 9-29-01

BTB 090601

Integration Time Range: 14.20 - 14.37

F:\HPCHEM\HP\3\DATA\09_25_01\3_092508.D
Report generated: Wed Sep 26 11:39:21 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E04M3MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29684 SDG No.: E04M3

Matrix: (soil/water) SOIL Lab Sample ID: 47455.03MSD

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

% Moisture: 63 decanted: (Y/N) __ Date Received: 08/30/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/26/01

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	87	U
11104-28-2	Aroclor-1221	87	U
11141-16-5	Aroclor-1232	87	U
53469-21-9	Aroclor-1242	87	U
12672-29-6	Aroclor-1248	87	U
11097-69-1	Aroclor-1254	150	P
11096-82-5	Aroclor-1260	87	U
	Surrogate amount spiked	17.60	

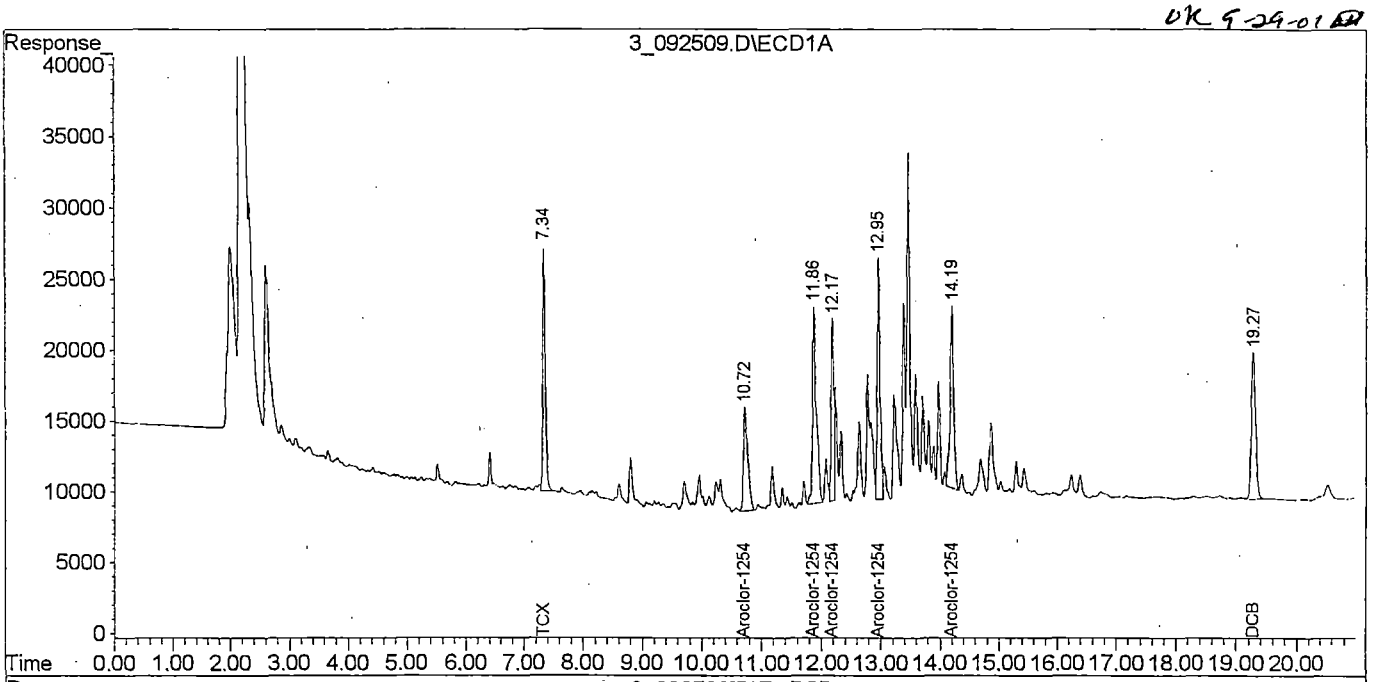
Chromatographic Report

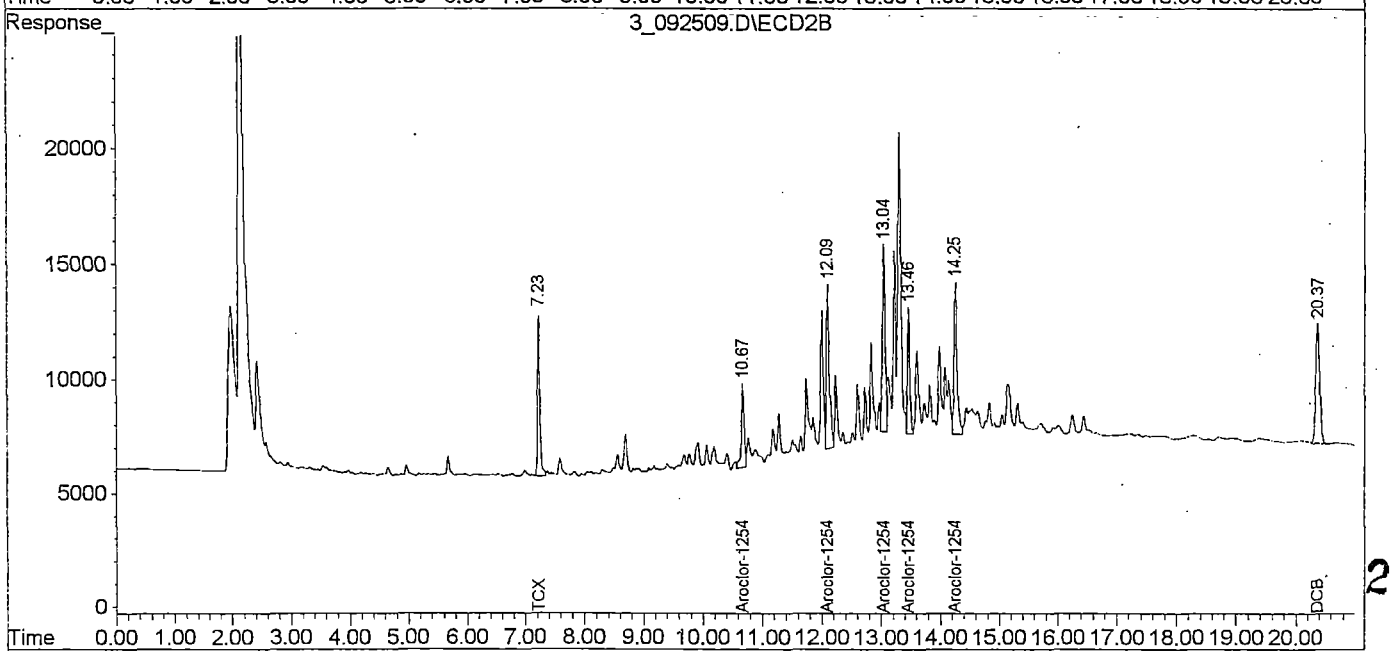
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092509.D\ECD1A.CH Vial: 67
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092509.D\ECD2B.CH
Acq On : 26 Sep 2001 5:24 Operator: BTB
Sample : 47455.03MSD *E04M3MSD * Inst : HP_03
Misc : *EPA*30.7G/5.0ML*63 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 12:48 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

OK 9-29-01





225

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092509.D\ECD1A.CH Vial: 67
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092509.D\ECD2B.CH
Acq On : 26 Sep 2001 5:24 Operator: BTB
Sample : 47455.03MSD *E04M3MSD * Inst : HP_03
Misc : *EPA*30.7G/5.0ML*63 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 29 12:48 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.34	7.23	505288	190614	9.579	11.5
	Spiked Amount 17.607			Recovery	=	54.40%	65.31%
22)	S DCB	19.27f	20.37f	515420	263814	10.0	10.7
	Spiked Amount 17.607			Recovery	=	56.79%	60.77%
	Target Compounds:						
12)	L6 Aroclor-1254	10.72	10.67	363373	119320	155.6	216.7 #
13)	L6 Aroclor-1254 {2}	11.86	12.10	621763	238673	158.7	195.1
14)	L6 Aroclor-1254 {3}	12.18	13.04	374818	263752	105.5	160.8m #
15)	L6 Aroclor-1254 {4}	12.95	13.46	552953	157796	145.7	181.7m
16)	L6 Aroclor-1254 {5}	14.19	14.25	511796	236124	170.3	206.0m
	Sum Aroclor-1254			2424703	1015665	735.9	960.2
	Average Aroclor-1254					147.180	192.046

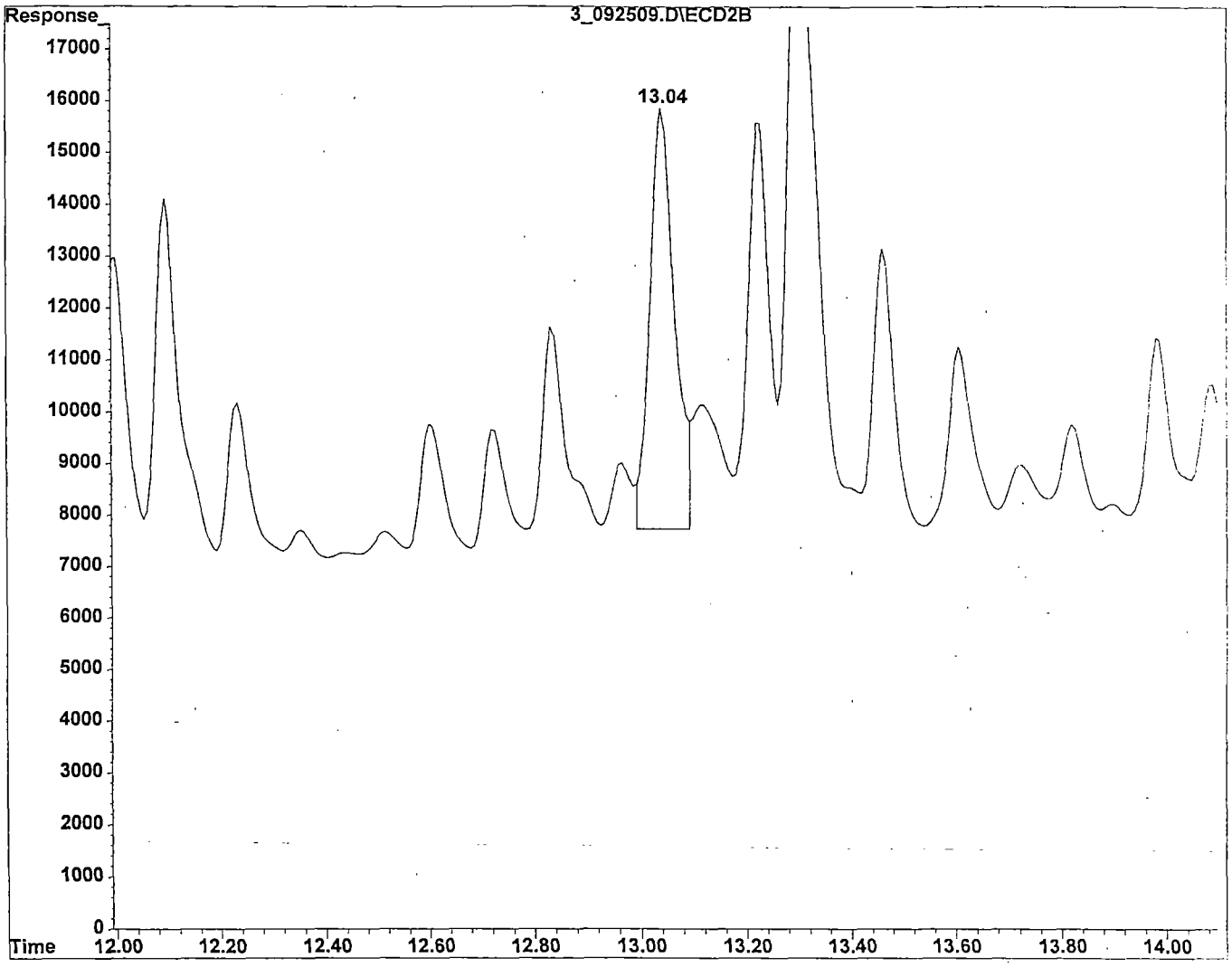
9-29-01 RLB

226

(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\3\DATA\09_25_01\3_092509.D
Date Acquired: 26 Sep 2001 5:24
Inst: HP_03 Operator ID: BTB
Name: 47455.03MSD *E04M3MSD *
Misc: *EPA*30.7G/5.0ML*63
Method: F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 26 11:35 2001 Quant Results File: XPCBI24.RES



Aroclor-1254 {3} #2 13.04min area: 263752 m

Integration Time Range: 12.99 - 13.10

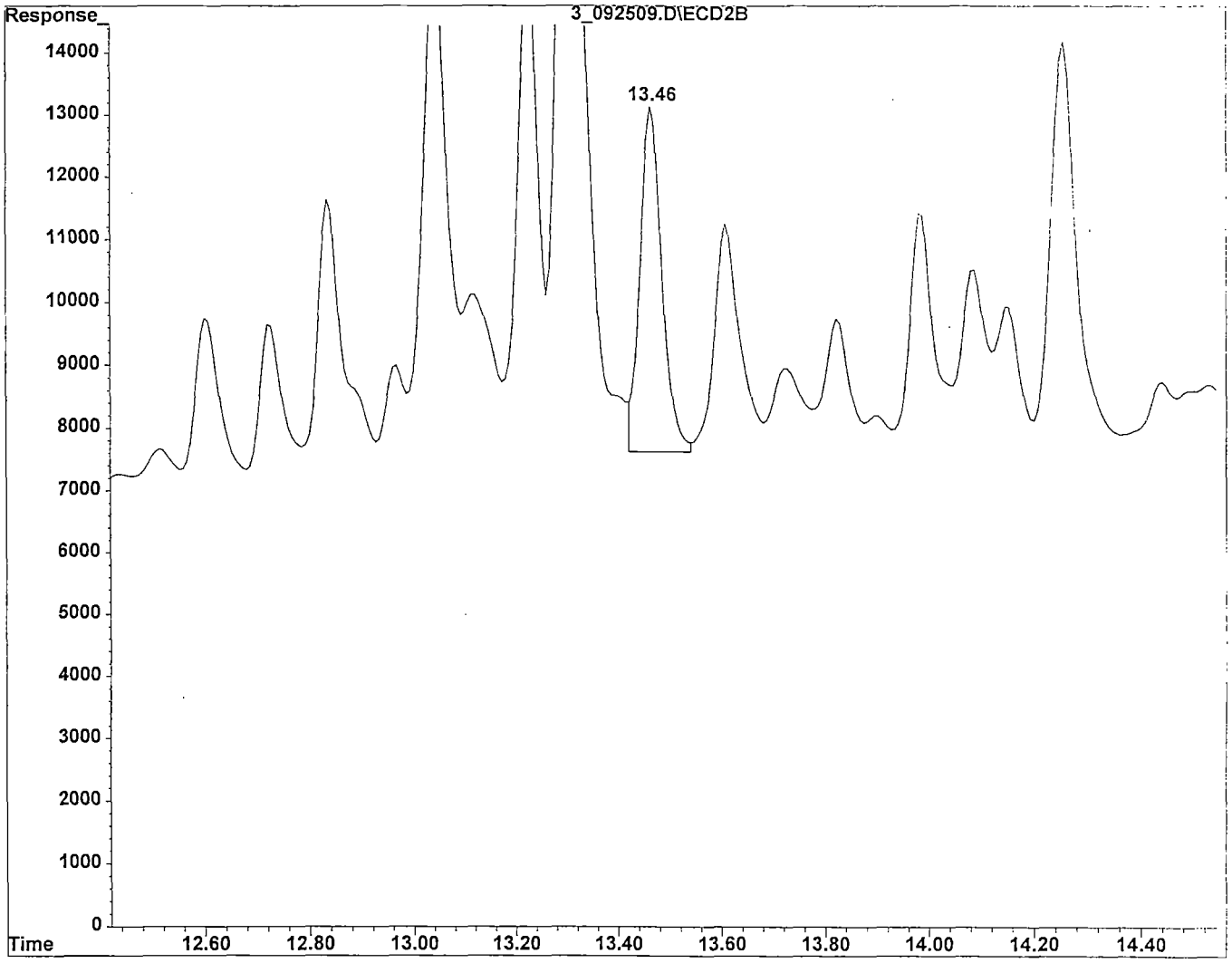
BTB 092601

OK 9-29-01 RH

F:\HPCHEM\HP\3\DATA\09_25_01\3_092509.D
Report generated: Wed Sep 26 11:39:23 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_25_01\3_092509.D
Date Acquired: 26 Sep 2001 5:24
Inst: HP_03 Operator ID: BTB
Name: 47455.03MSD *E04M3MSD *
Misc: *EPA*30.7G/5.0ML*63
Method: F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 26 11:35 2001 Quant Results File: XPCBI24.RES



Aroclor-1254 {4} #2 13.46min area: 157796 m

Integration Time Range: 13.42 - 13.54

BTB 092601

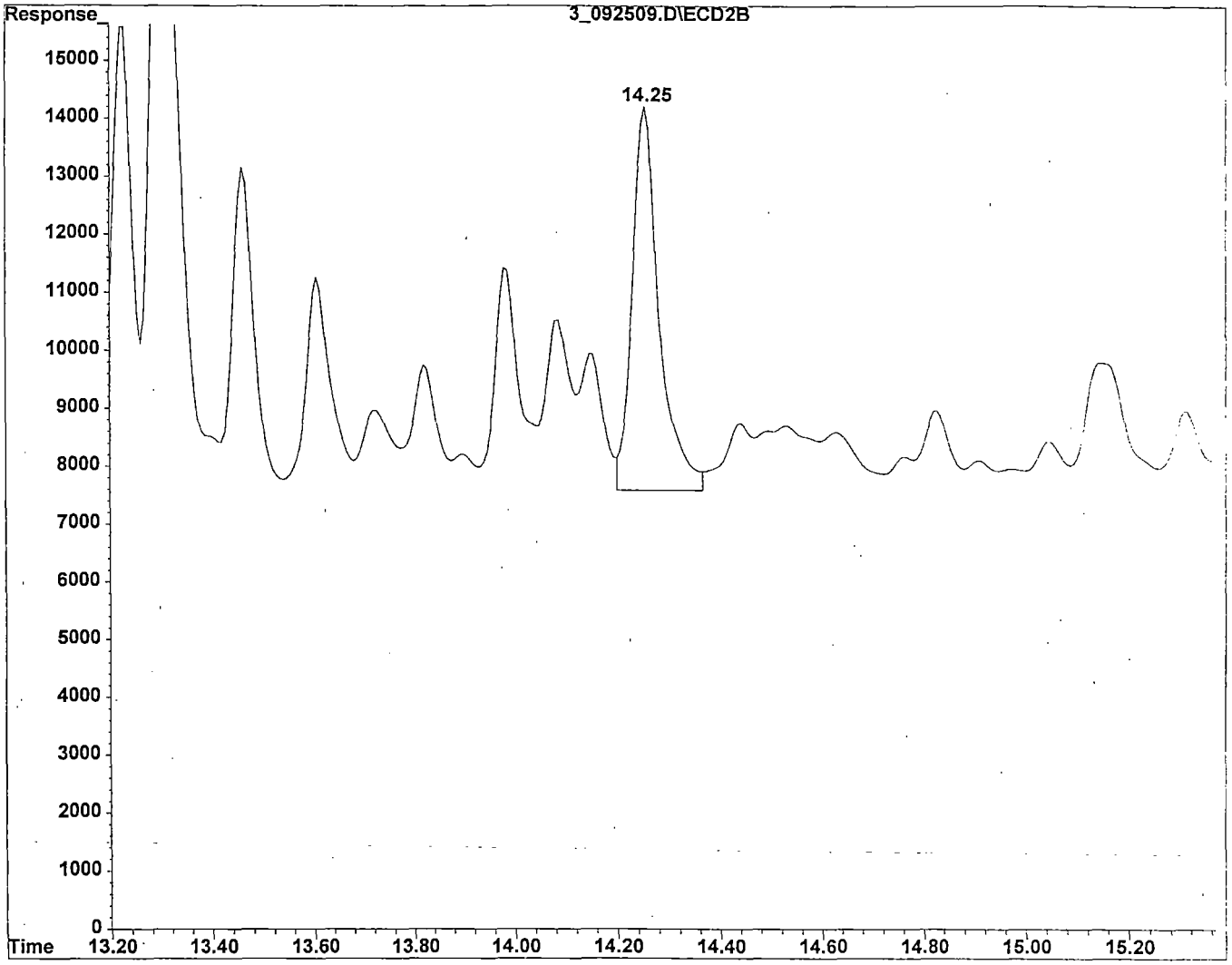
OK 9-29-01

228

F:\HPCHEM\HP\3\DATA\09_25_01\3_092509.D
Report generated: Wed Sep 26 11:39:24 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\09_25_01\3_092509.D
Date Acquired: 26 Sep 2001 5:24
Inst: HP_03 Operator ID: BTB
Name: 47455.03MSD *E04M3MSD *
Misc: *EPA*30.7G/5.0ML*63
Method: F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title: PCB/TOXAPHENE
Quant Time: Sep 26 11:35 2001 Quant Results File: XPCBI24.RES



Aroclor-1254 {5} #2 14.25min area: 236124 m

Integration Time Range: 14.20 - 14.37

BTB 092601

ok 9-28-01 BB

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F:\HPCHEM\HP\3\DATA\09_25_01\3_092509.D
Report generated: Wed Sep 26 11:39:24 2001

Gel Permeation Chromatography (GPC) Run Log - GPC2

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 364134 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case#

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
09/14/01 12:27	1	CAL STD (INITIAL)	2_091401	
09/14/01 12:58	2	SB	2_091402	
09/14/01 13:29	3	SB	2_091403	
09/14/01 14:00	4	SB	2_091404	
09/14/01 14:31	5	SB	2_091405	
09/14/01 15:03	6	SB#091401A (PEST)	2_091406	
09/14/01 15:34	7	SB#091401B (PEST)	2_091407	
09/14/01 16:05	8	BL0908SD-EPA	2_091408	
09/14/01 16:36	9	BB0908SD-EPA	2_091409	
09/14/01 17:07	10	LC0908SD-EPA	2_091410	
09/14/01 17:38	11	LD0908SD-EPA	2_091411	
09/14/01 18:09	12	47455.08-E04P2-EPA	2_091412	
09/14/01 18:40	13	47455.13-E04P7-EPA	2_091413	
09/14/01 19:11	14	47455.21-E04Q5-EPA	2_091414	
09/14/01 19:42	15	47455.19-E04Q3-EPA	2_091415	
09/14/01 20:14	16	47455.22-E04Q6-EPA	2_091416	
09/14/01 20:45	17	47455.11-E04P5-EPA	2_091417	
09/14/01 21:16	18	47455.04-E04M4-EPA	2_091418	
09/14/01 21:47	19	47455.05-E04M5-EPA	2_091419	
09/14/01 22:18	20	47455.12-E04P6-EPA	2_091420	
09/14/01 22:49	21	47455.06-E04P0-EPA	2_091421	

9/17/2001 9/17/01

Verification Signature/Date Analyst Signature/Date

Book: OE-102-16-RUN- Page No.: 51

Gel Permeation Chromatography (GPC) Run Log - GPC2

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 364134 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case#

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
09/14/01 23:20	22	47455.17-E04Q1-EPA	2_091422	
09/14/01 23:51	23	47455.16-E04Q0-EPA	2_091423	
09/15/01 00:22	24	47455.07-E04P1-EPA	2_091424	
09/15/01 00:53	25	47455.10-E04P4-EPA	2_091425	
09/15/01 01:25	26	47455.20-E04Q4-EPA	2_091426	
09/15/01 01:56	27	47455.09-E04P3-EPA	2_091427	
09/15/01 02:27	28	47455.15-E04P9-EPA	2_091428	
09/15/01 02:58	29	47455.14-E04P8-EPA	2_091429	
09/15/01 03:29	30	47455.18-E04Q2-EPA	2_091430	
09/15/01 04:00	31	47455.01-E04M3-EPA	2_091431	
09/15/01 04:31	32	47455.02-E04M3MS-EPA	2_091432	
09/15/01 05:02	33	47455.03-E04M3MSD-EPA	2_091433	
09/15/01 05:33	34	SB	2_091434	
09/15/01 06:05	35	SB	2_091435	
09/15/01 06:36	36	SB	2_091436	
09/15/01 07:07	37	SB	2_091437	
09/15/01 07:38	38	CAL STD (FINAL)	2_091438	

Compound	Initial RT	Final RT	% Difference
Phthalate	14.38	14.26	0.83
Methoxychlor	16.01	15.86	0.94
Perylene	21.01	20.86	0.71

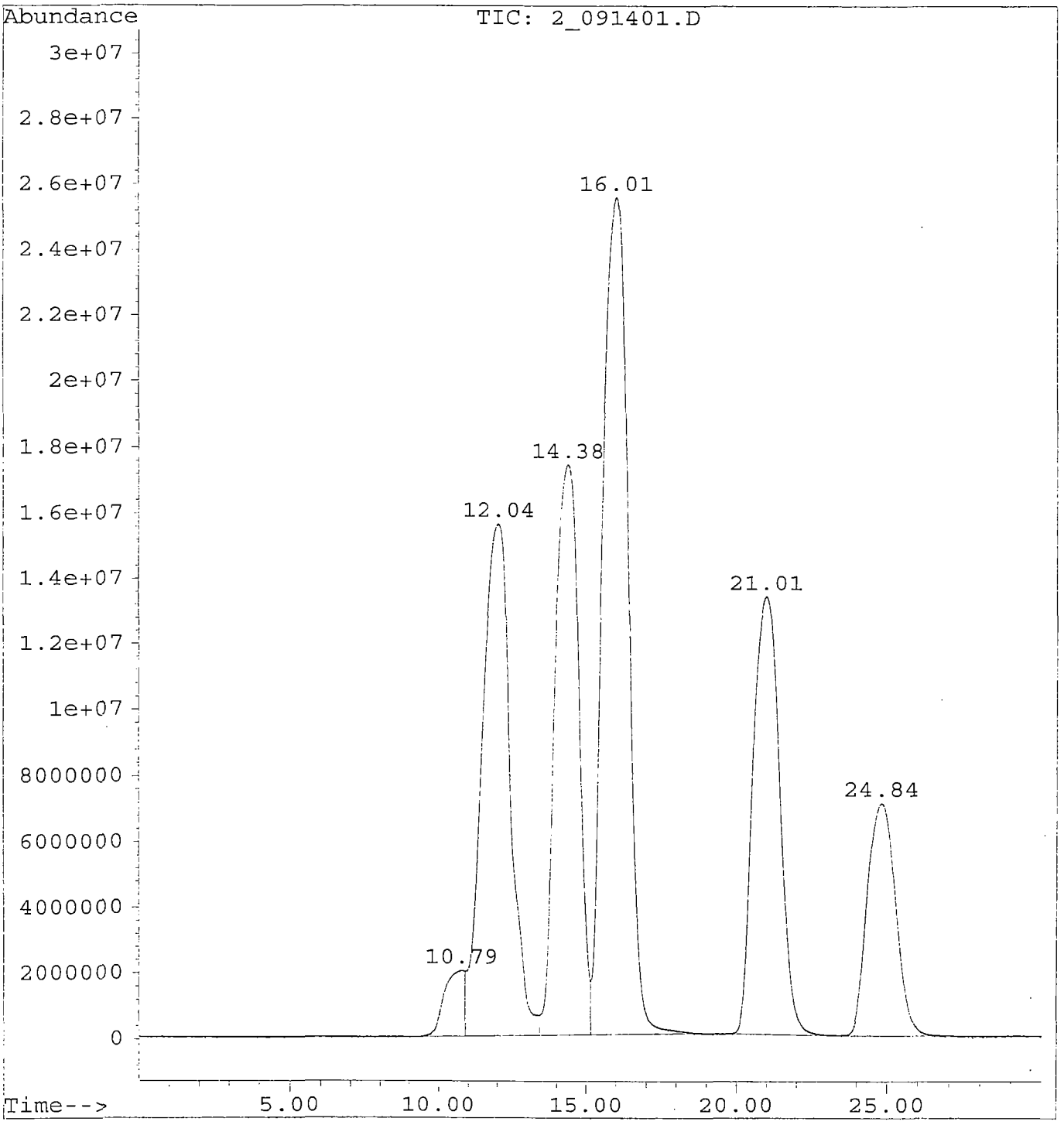
9/17/2001
Verification Signature/Date

9/17/01
Analyst Signature/Date

Book: OE-102-16-RUN- Page No.: 52

Data File : C:\HPCHEM\6\DATA\091401\2_091401.D
Acq On : 14 Sep 01 12:27 PM
Sample : CAL STD (INITIAL)
Misc : COL# 364134

Vial: 1
Operator: CR COL#
Inst : GPC2
Multiplr: 1.00



232

Chromatographic Resolution Report

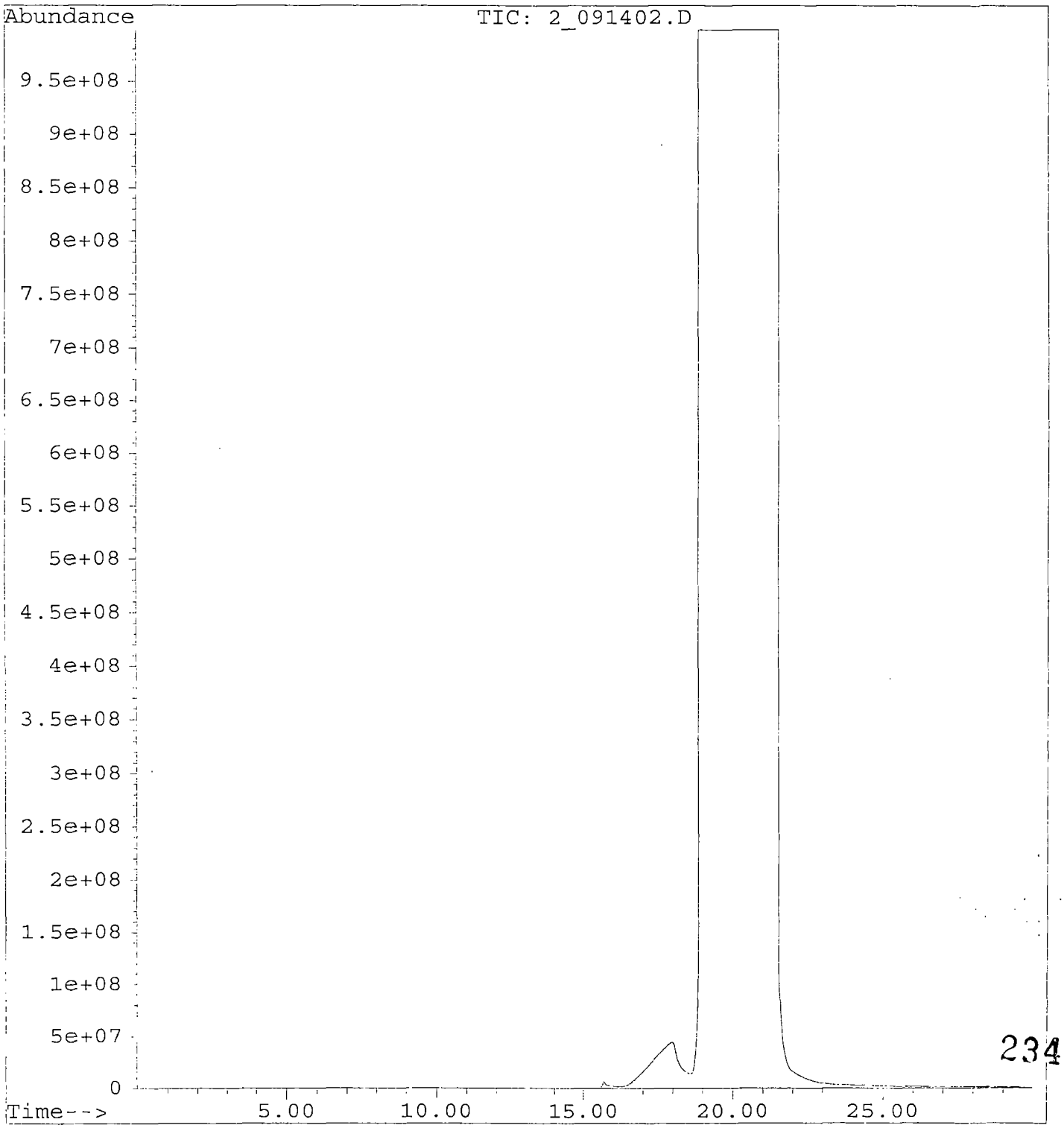
Data File : C:\HPCHEM\6\DATA\091401\2_091401.D
Acq On : 14 Sep 01 12:27
Sample : CAL STD (INITIAL)
Misc : COL# 364134

Vial: 1
Operator: CR COL# 36
Inst : GPC2
Multiplr: 1.00

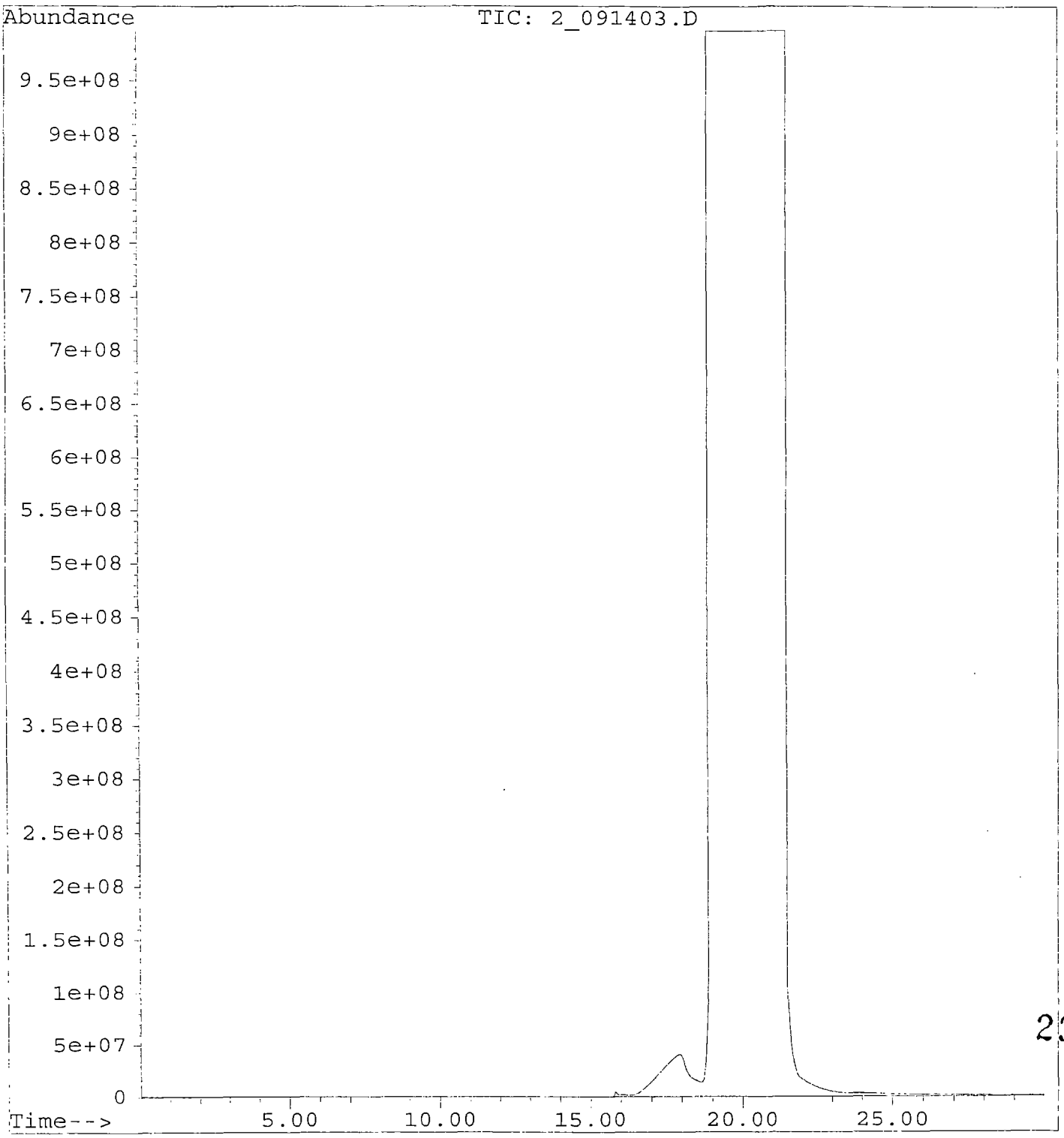
Method : C:\HPCHEM\6\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
10.792	12.043	2.86
12.043	14.380	96.32
14.380	16.008	90.75
16.008	21.006	100.00
21.006	24.840	100.00

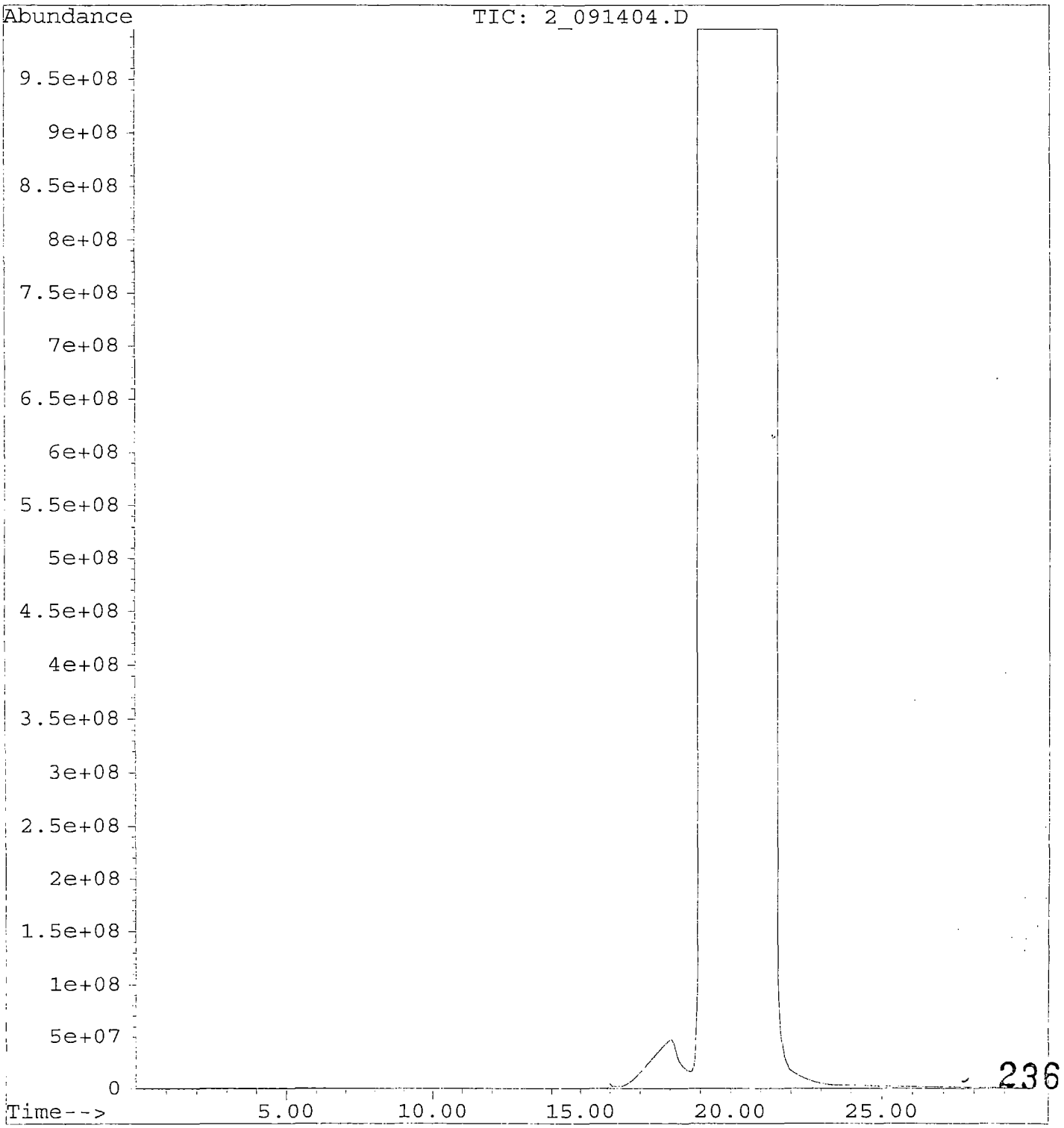
File : C:\HPCHEM\6\DATA\091401\2_091402.D
Operator : CR COL# 364134
Acquired : 14 Sep 01 12:58 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 2



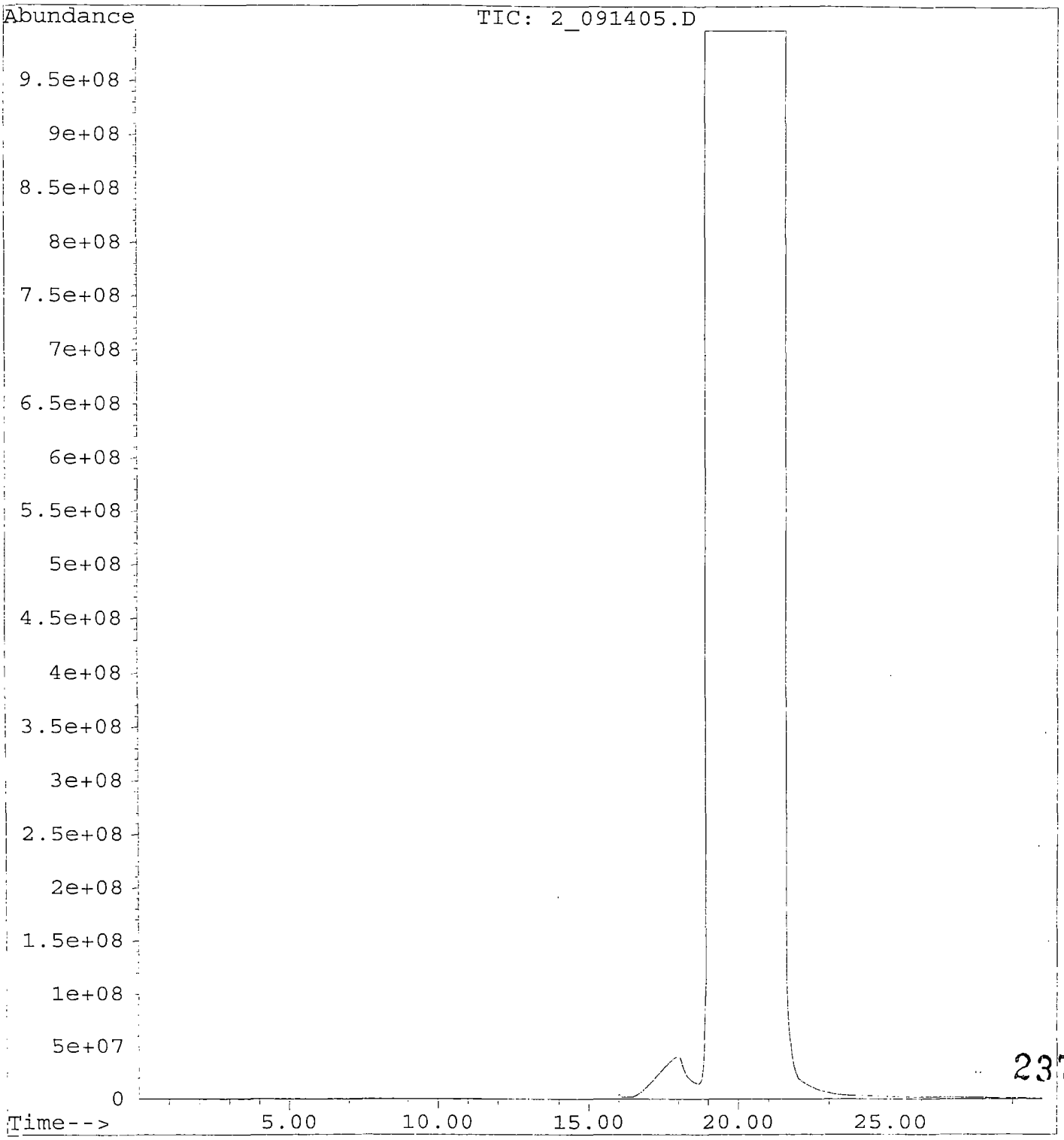
File : C:\HPCHEM\6\DATA\091401\2_091403.D
Operator : CR COL# 364134
Acquired : 14 Sep 01 13:29 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 3



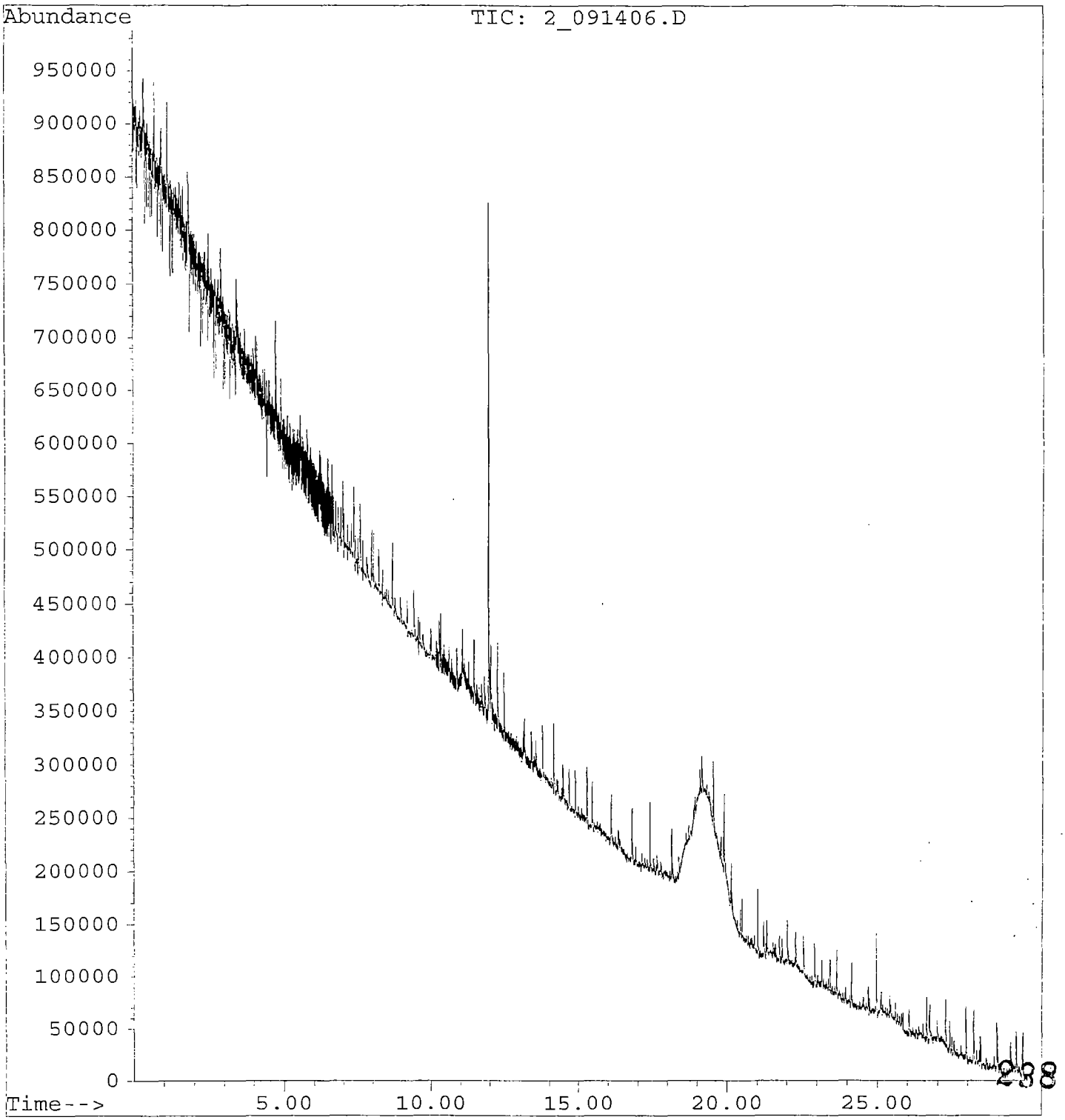
File : C:\HPCHEM\6\DATA\091401\2_091404.D
Operator : CR COL# 364134
Acquired : 14 Sep 01 14:00 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 4



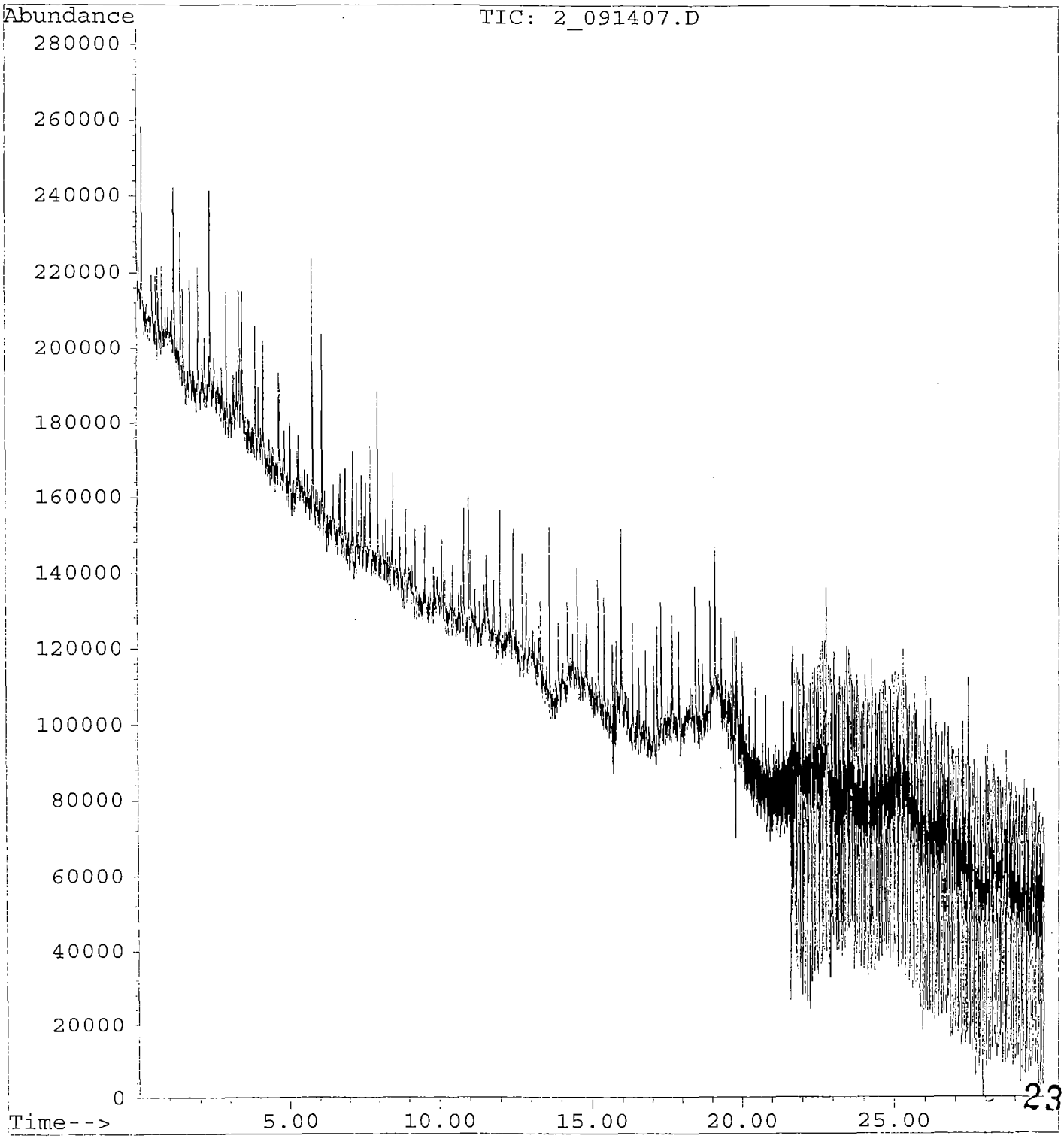
File : C:\HPCHEM\6\DATA\091401\2_091405.D
Operator : CR COL# 364134
Acquired : 14 Sep 01 14:31 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 5



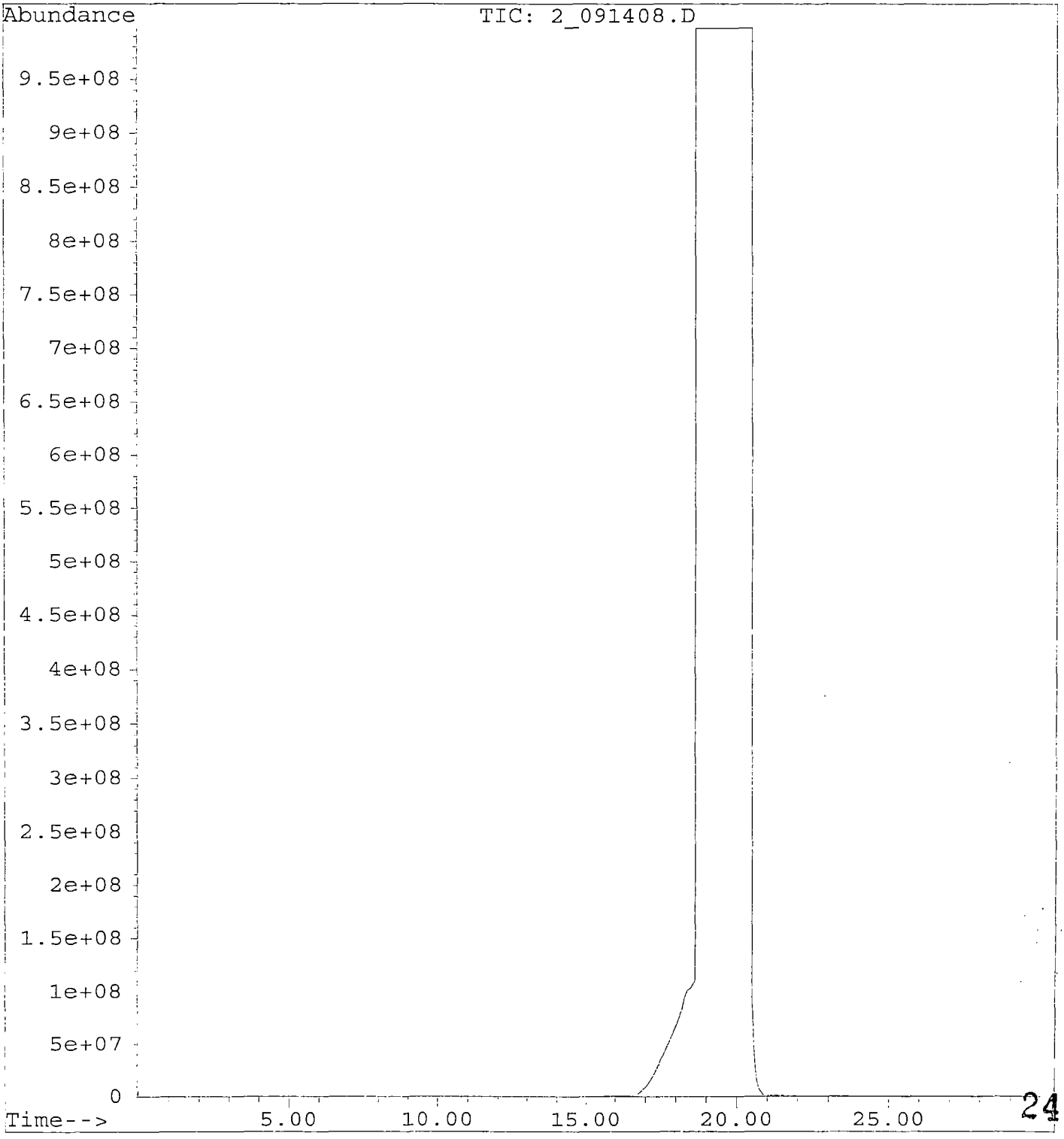
File : C:\HPCHEM\6\DATA\091401\2_091406.D
Operator : CR COL# 364134
Acquired : 14 Sep 01 15:03 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB#091401A (PEST)
Misc Info : COL# 364134
Vial Number: 6



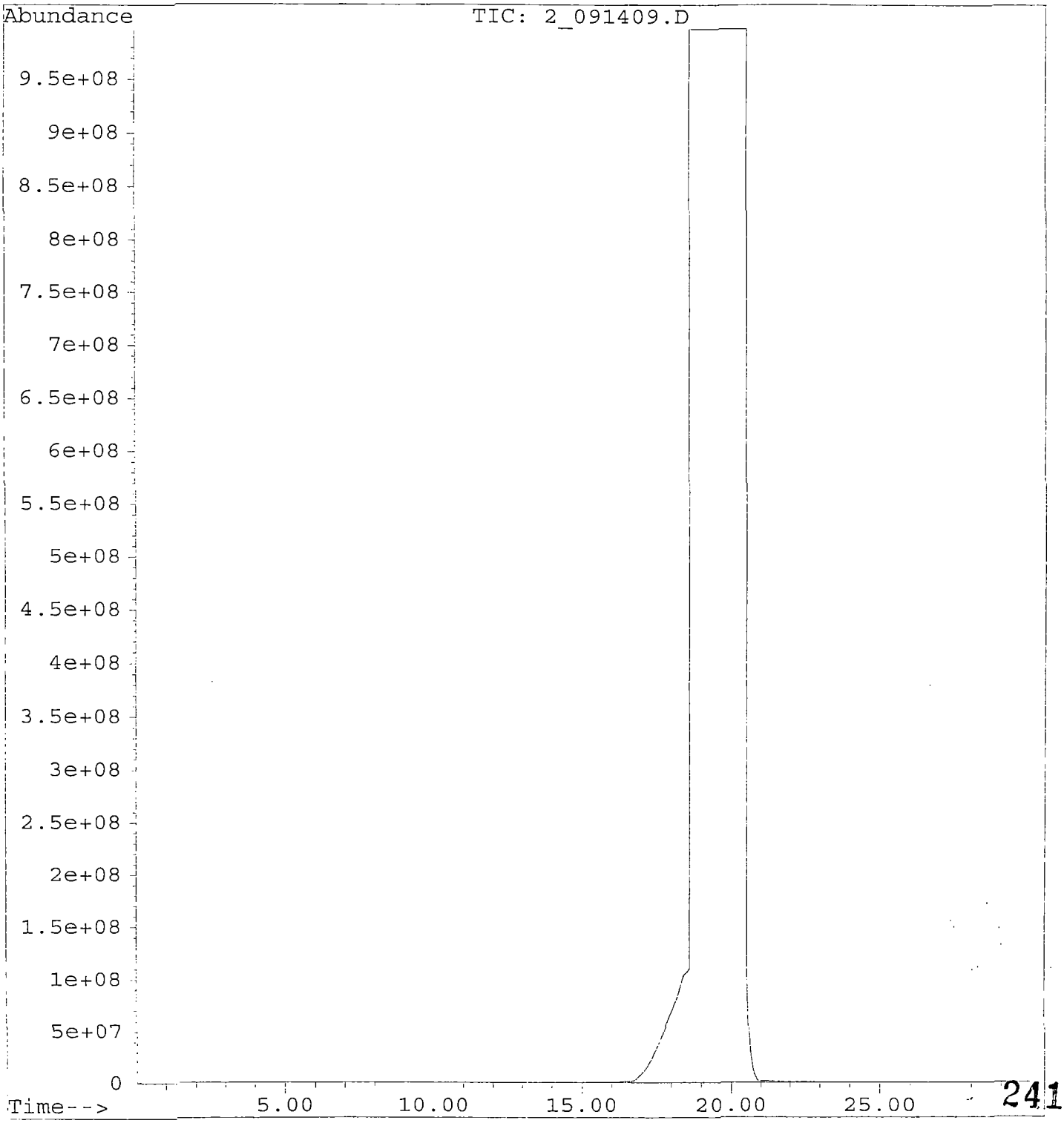
File : C:\HPCHEM\6\DATA\091401\2_091407.D
Operator : CR COL# 364134
Acquired : 14 Sep 01 15:34 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB#091401B (PEST)
Misc Info : COL# 364134
Vial Number: 7



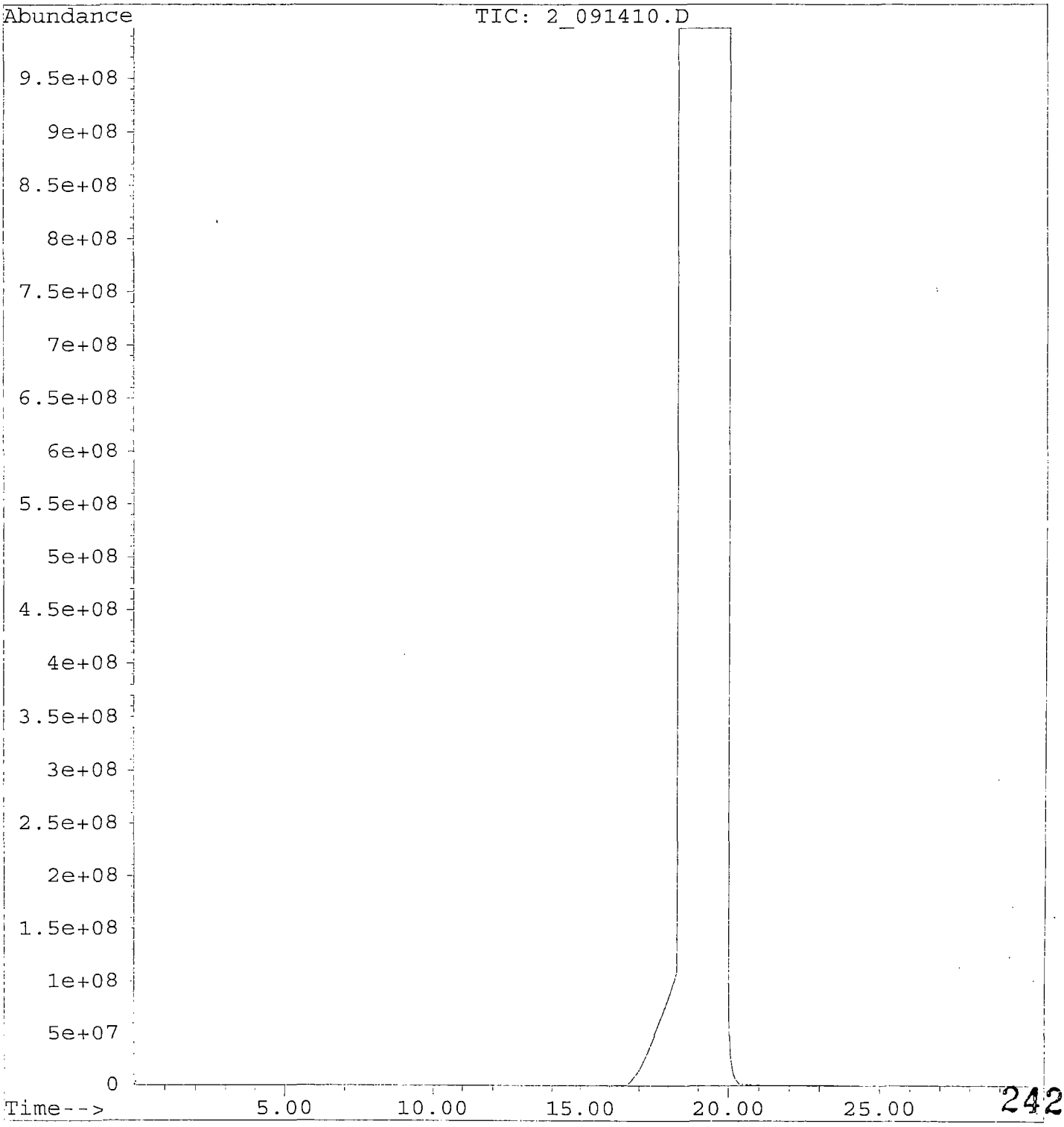
File : C:\HPCHEM\6\DATA\091401\2_091408.D
Operator : CR COL# 364134
Acquired : 14 Sep 01 16:05 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: BL0908SD-EPA
Misc Info : COL# 364134
Vial Number: 8



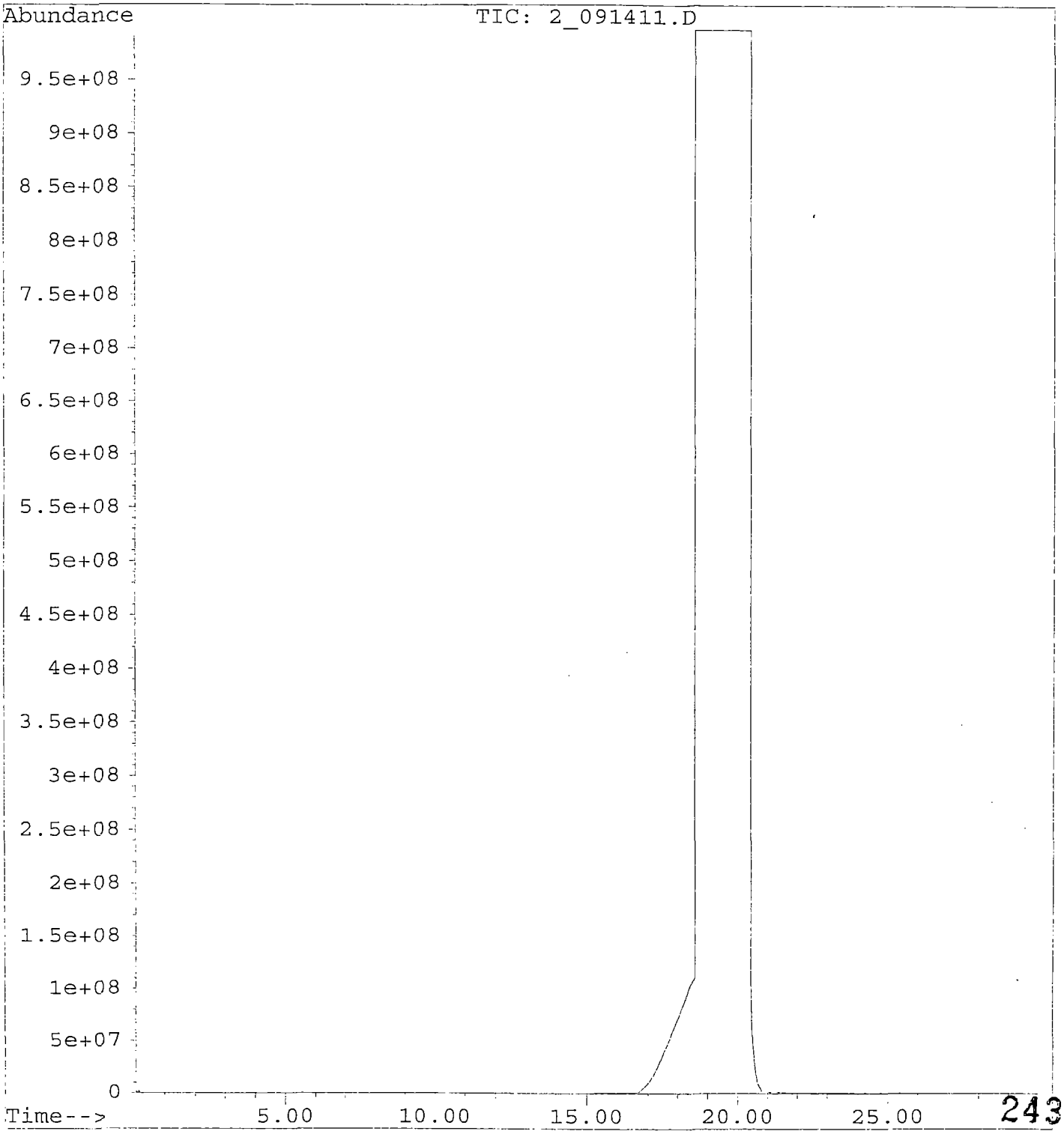
File : C:\HPCHEM\6\DATA\091401\2_091409.D
Operator : CR COL# 364134
Acquired : 14 Sep 01 16:36 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: BB0908SD-EPA
Misc Info : COL# 364134
Vial Number: 9



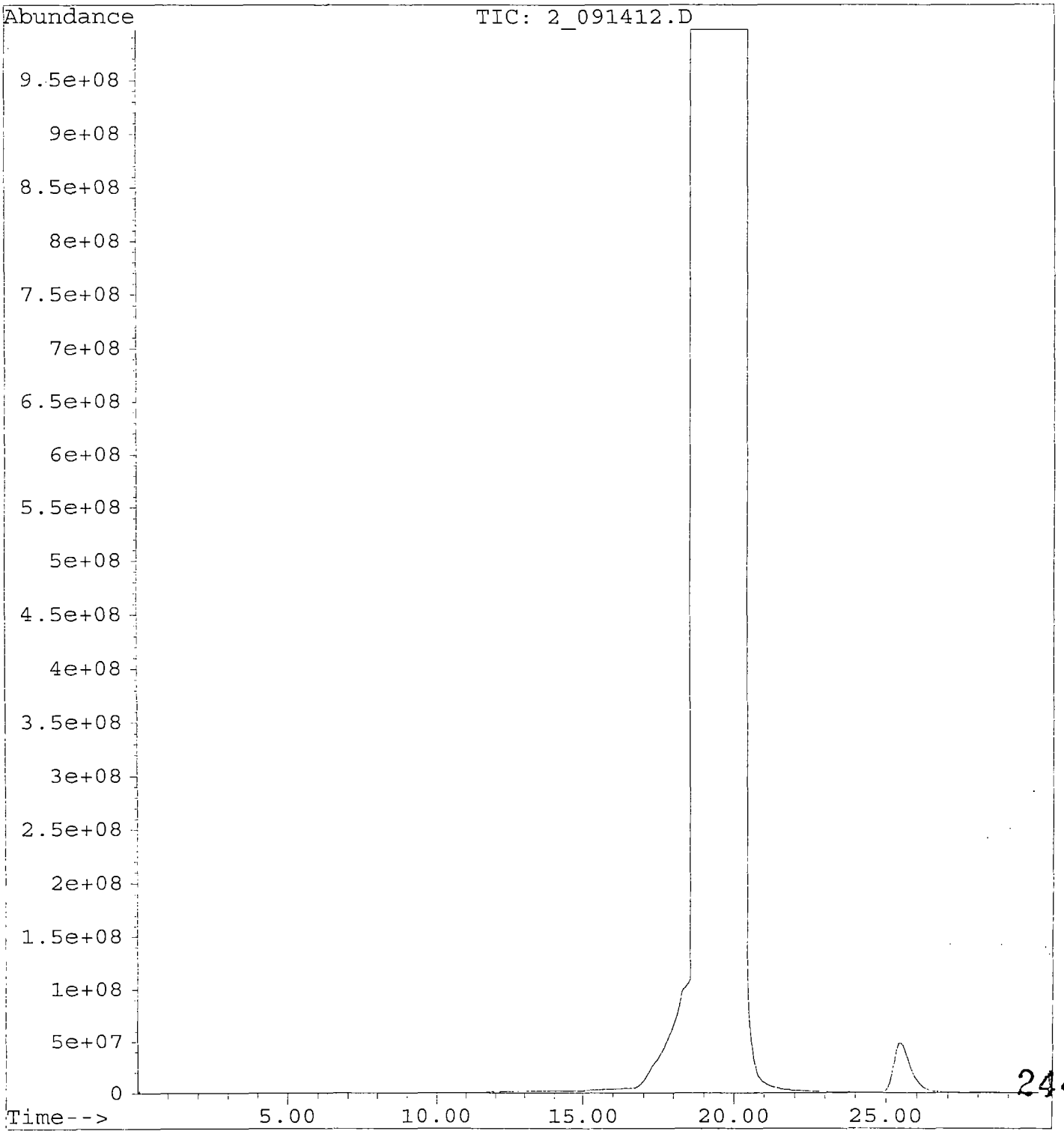
File : C:\HPCHEM\6\DATA\091401\2_091410.D
Operator : CR COL# 364134
Acquired : 14 Sep 01 17:07 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: LC0908SD-EPA
Misc Info : COL# 364134
Vial Number: 10



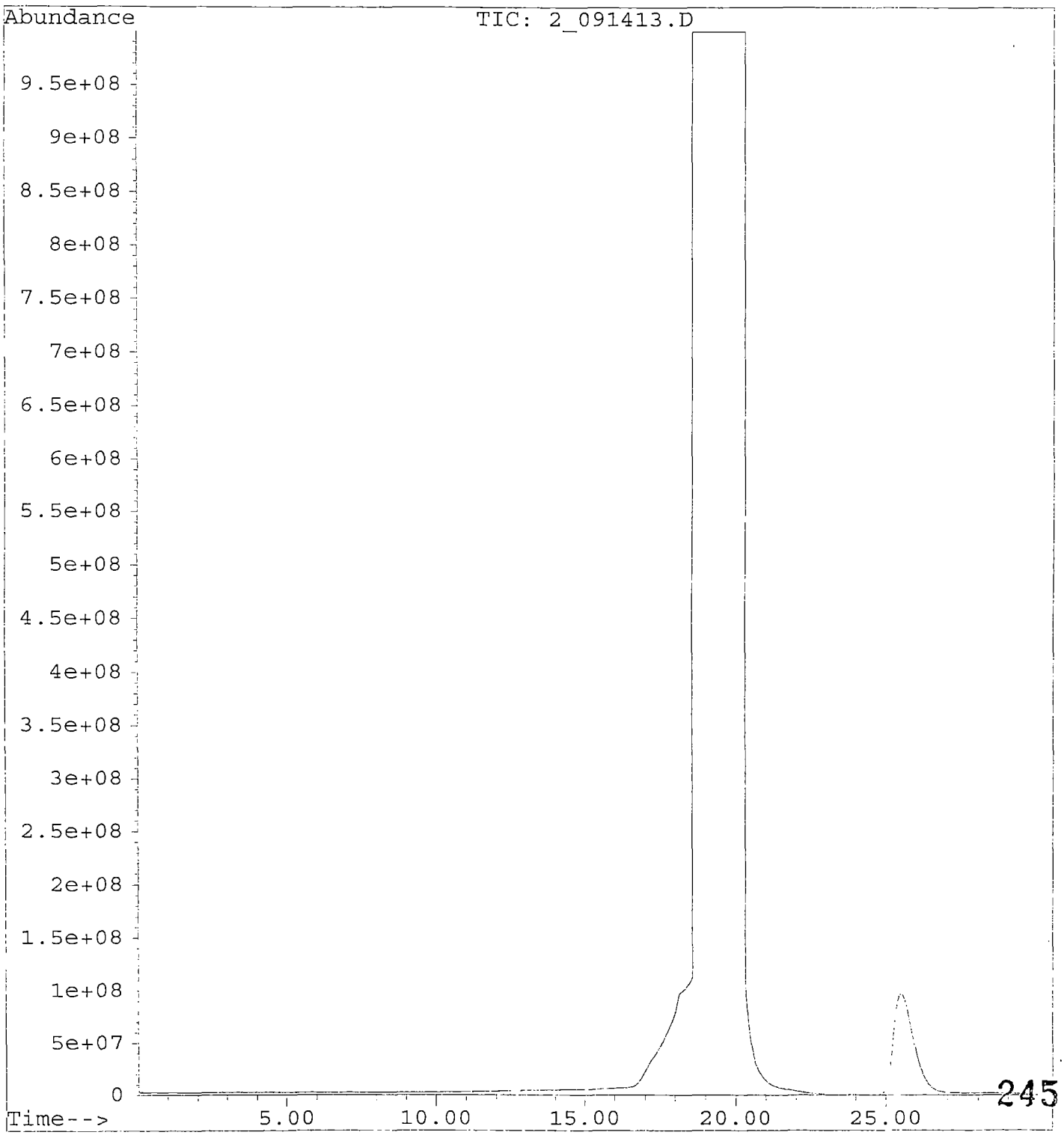
File : C:\HPCHEM\6\DATA\091401\2_091411.D
Operator : CR COL# 364134
Acquired : 14 Sep 01 17:38 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: LD0908SD-EPA
Misc Info : COL# 364134
Vial Number: 11



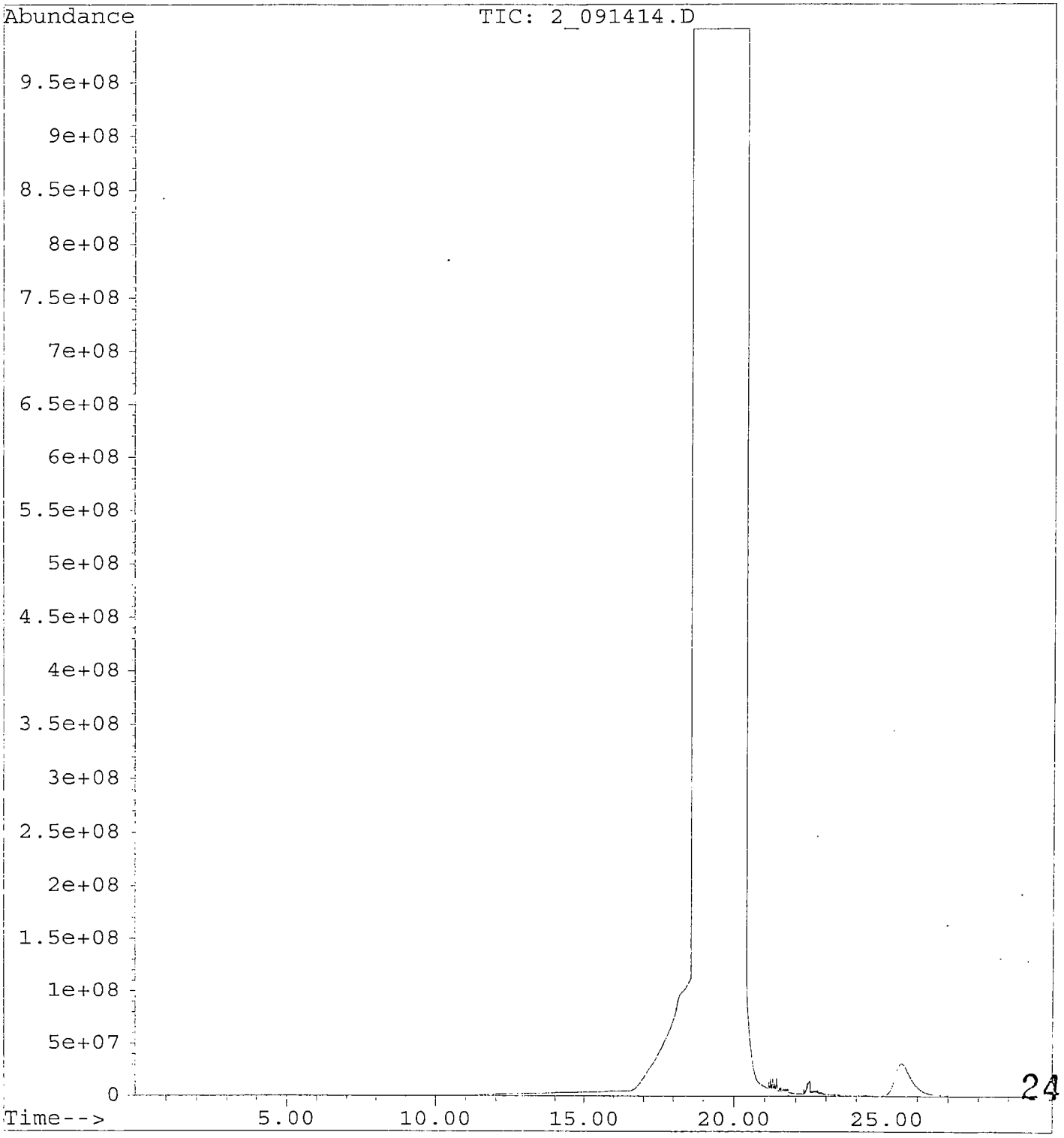
File : C:\HPCHEM\6\DATA\091401\2_091412.D
Operator : CR COL# 364134
Acquired : 14 Sep 01 18:09 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47455.08-E04P2-EPA
Misc Info : COL# 364134
Vial Number: 12



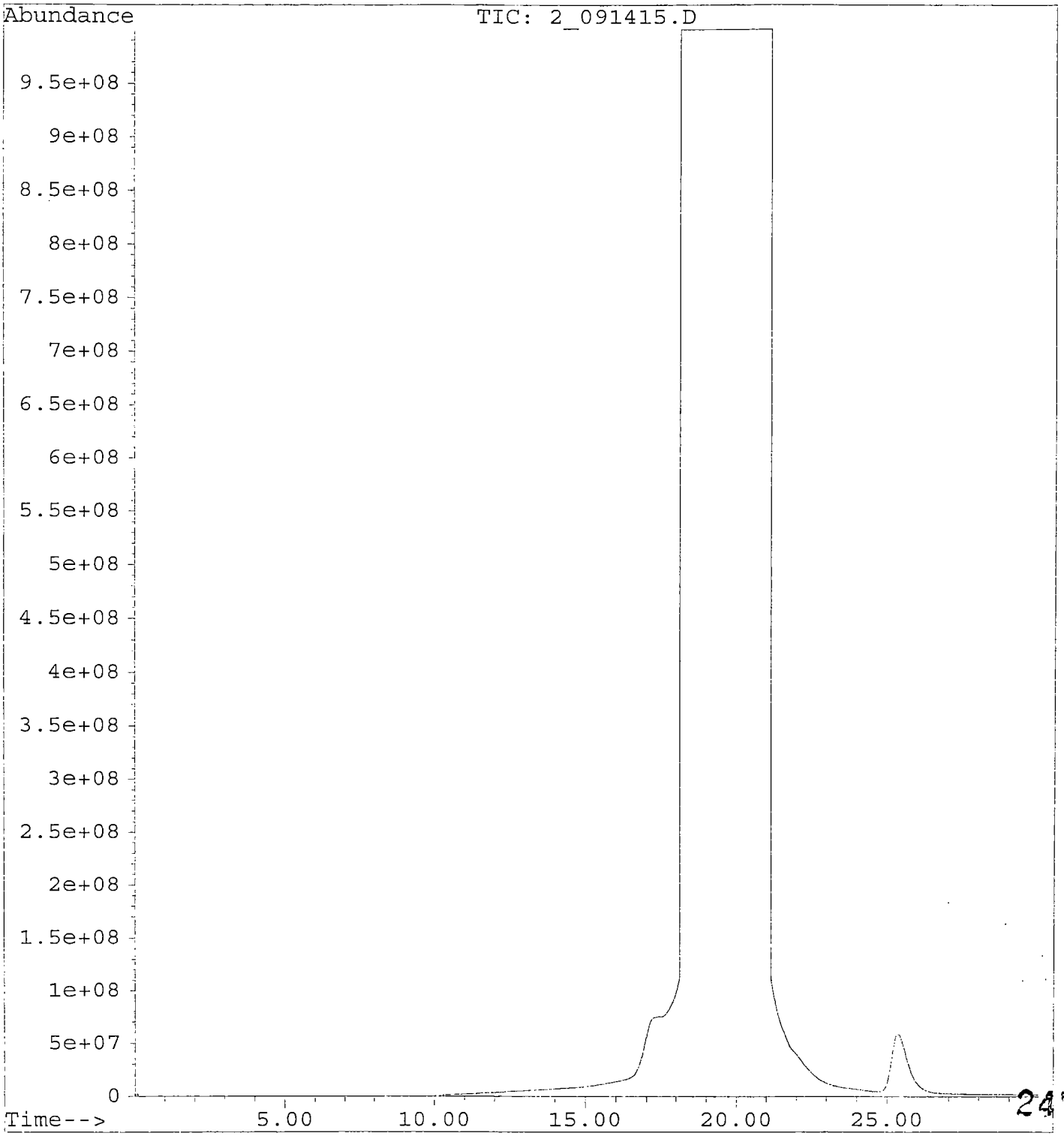
File : C:\HPCHEM\6\DATA\091401\2_091413.D
Operator : CR COL# 364134
Acquired : 14 Sep 01 18:40 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47455.13-E04P7-EPA
Misc Info : COL# 364134
Vial Number: 13



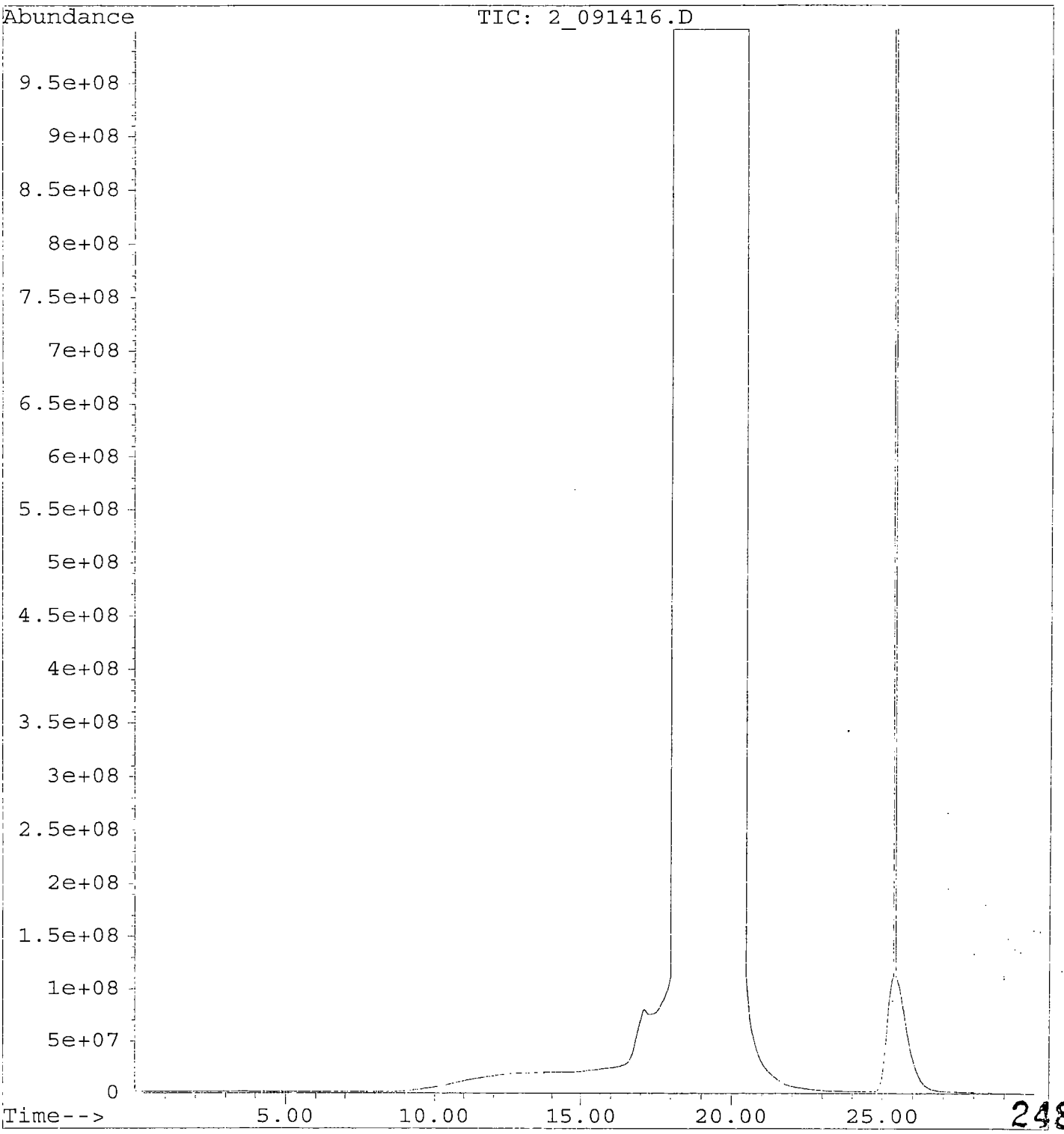
File : C:\HPCHEM\6\DATA\091401\2_091414.D
Operator : CR COL# 364134
Acquired : 14 Sep 01 19:11 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47455.21-E04Q5-EPA
Misc Info : COL# 364134
Vial Number: 14



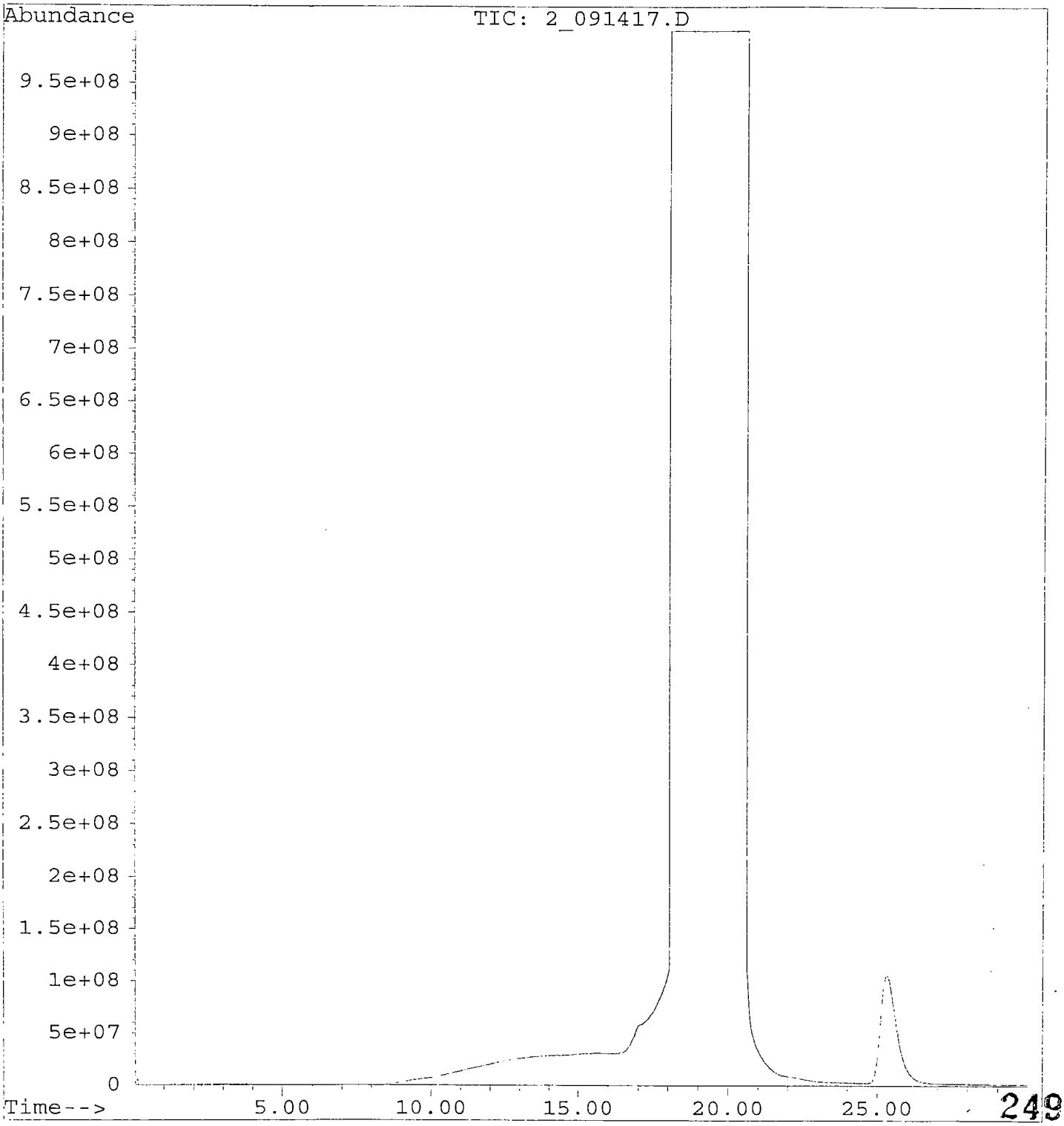
File : C:\HPCHEM\6\DATA\091401\2_091415.D
Operator : CR COL# 364134
Acquired : 14 Sep 01 19:42 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47455.19-E04Q3-EPA
Misc Info : COL# 364134
Vial Number: 15



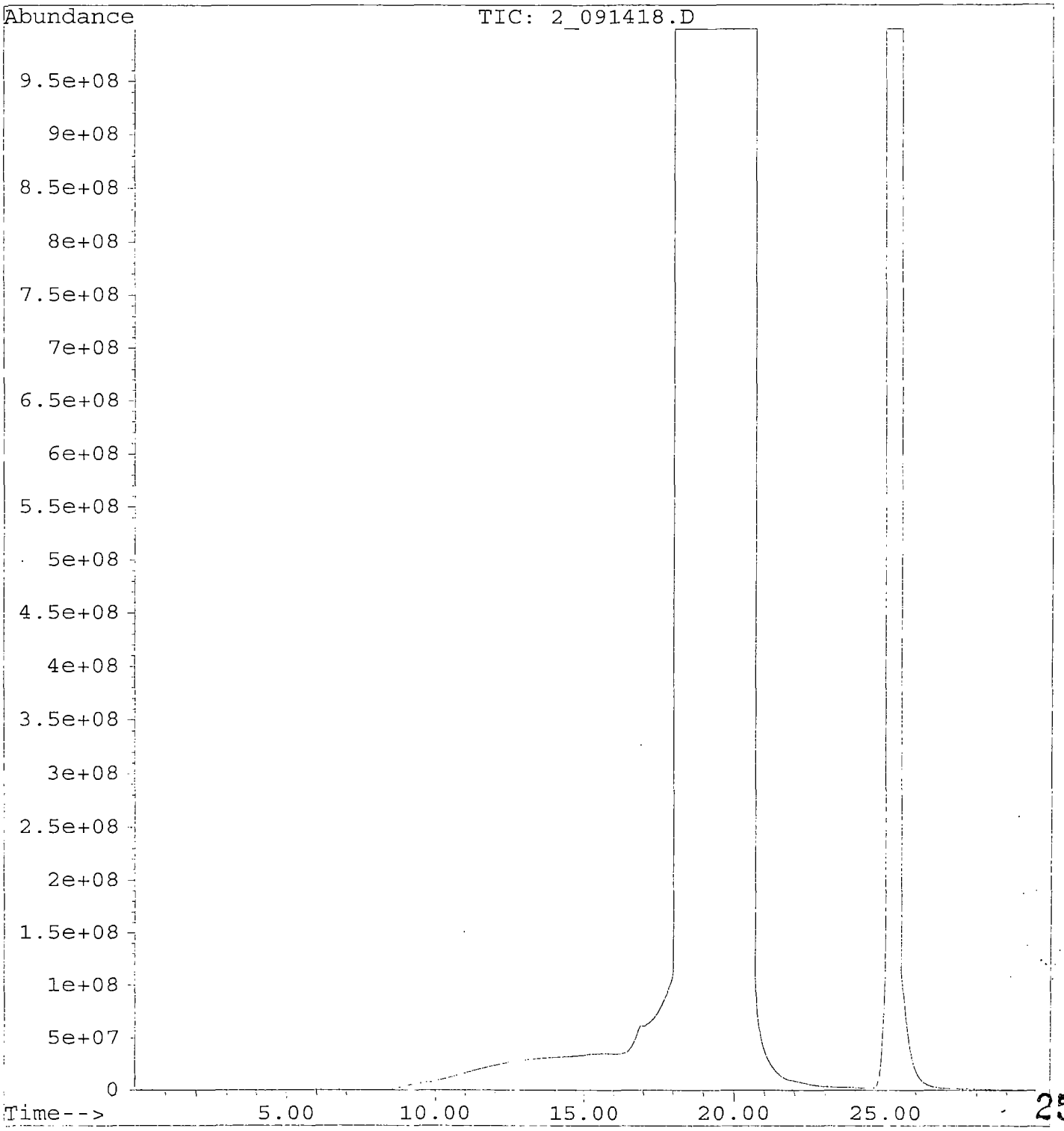
File : C:\HPCHEM\6\DATA\091401\2_091416.D
Operator : CR COL# 364134
Acquired : 14 Sep 01 20:14 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47455.22-E04Q6-EPA
Misc Info : COL# 364134
Vial Number: 16



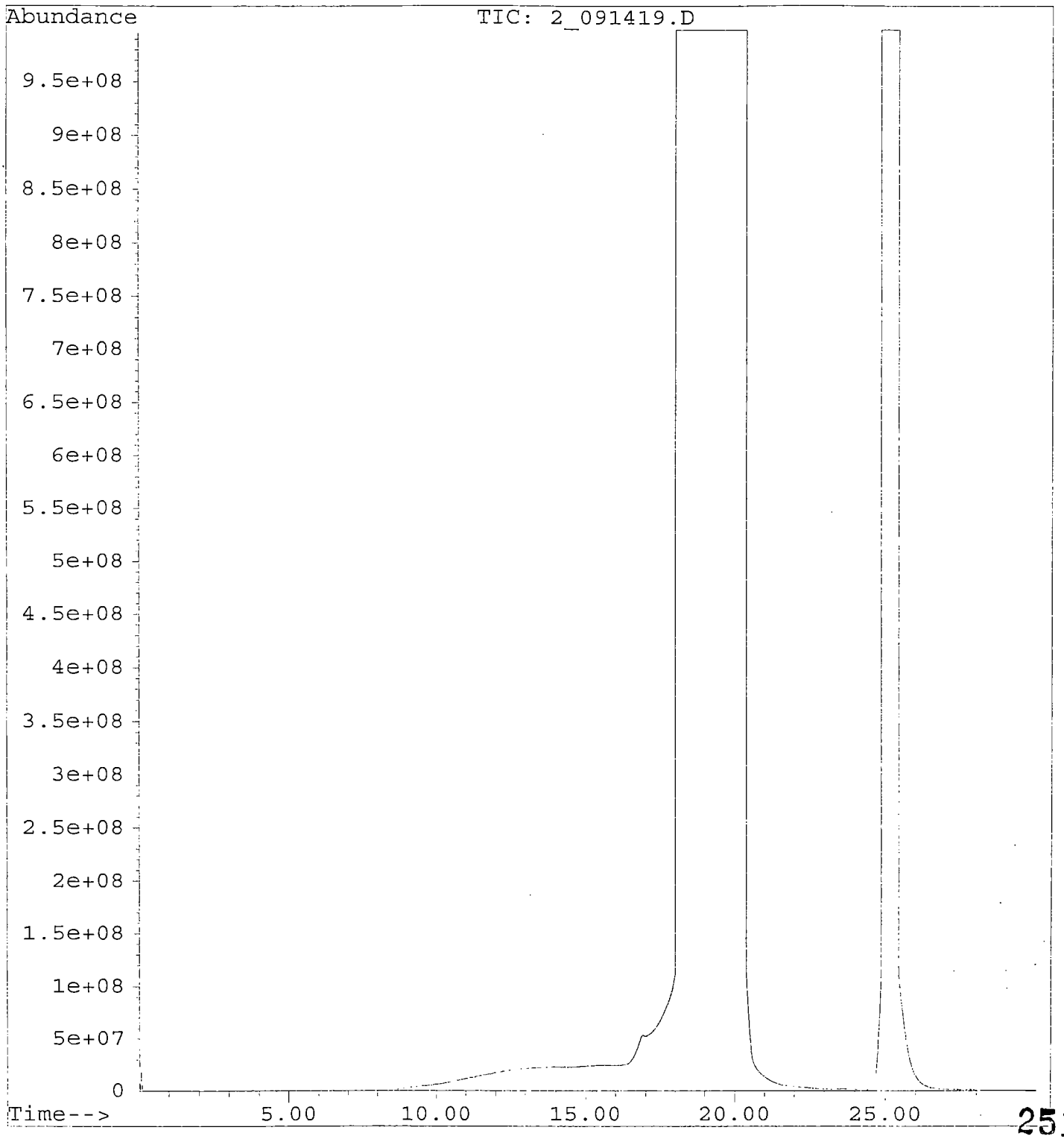
File : C:\HPCHEM\6\DATA\091401\2_091417.D
Operator : CR COL# 364134
Acquired : 14 Sep 01 20:45 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47455.11-E04P5-EPA
Misc Info : COL# 364134
Vial Number: 17



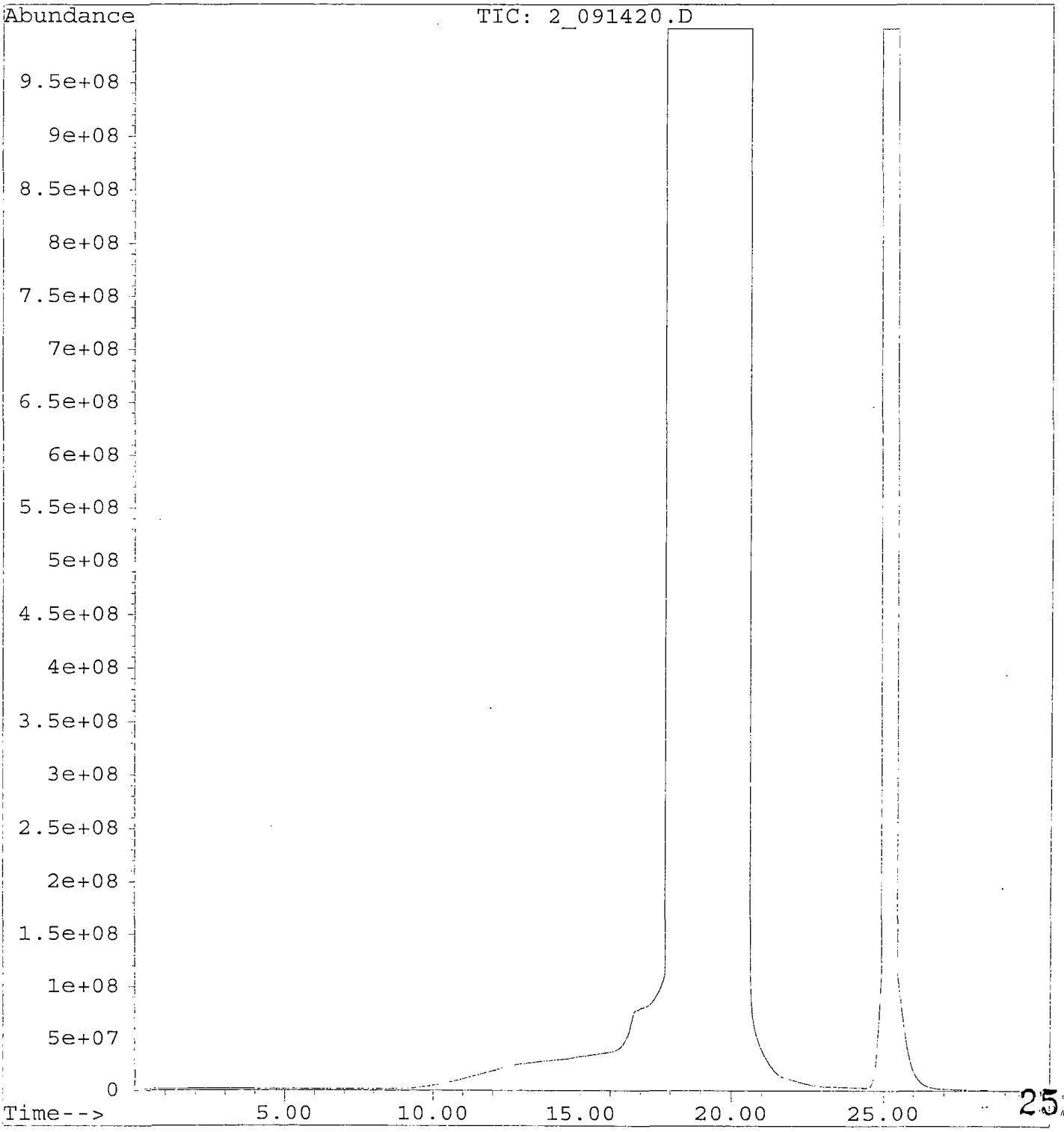
File : C:\HPCHEM\6\DATA\091401\2_091418.D
Operator : CR COL# 364134
Acquired : 14 Sep 01 21:16 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47455.04-E04M4-EPA
Misc Info : COL# 364134
Vial Number: 18



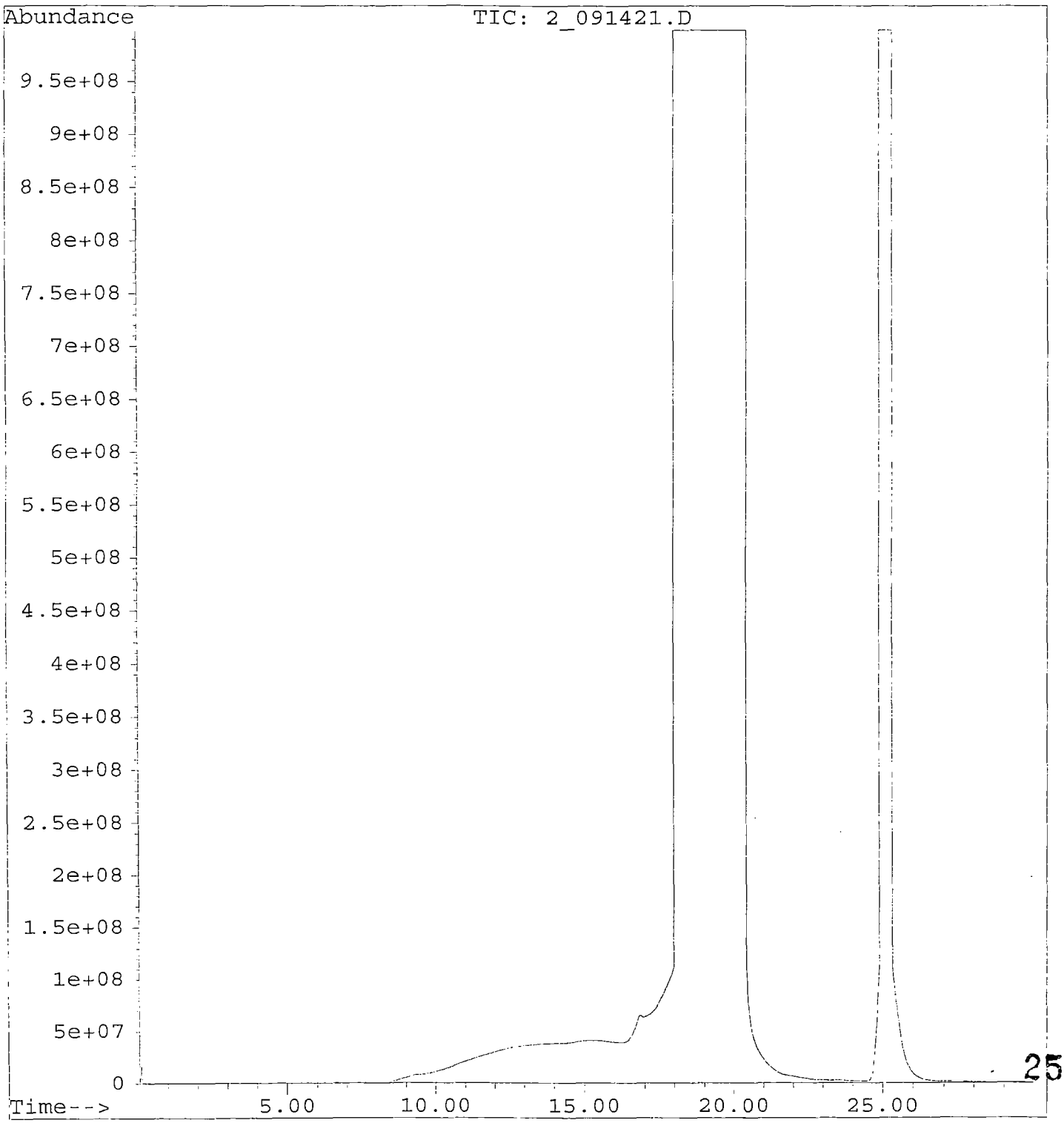
File : C:\HPCHEM\6\DATA\091401\2_091419.D
Operator : CR COL# 364134
Acquired : 14 Sep 01 21:47 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47455.05-E04M5-EPA
Misc Info : COL# 364134
Vial Number: 19



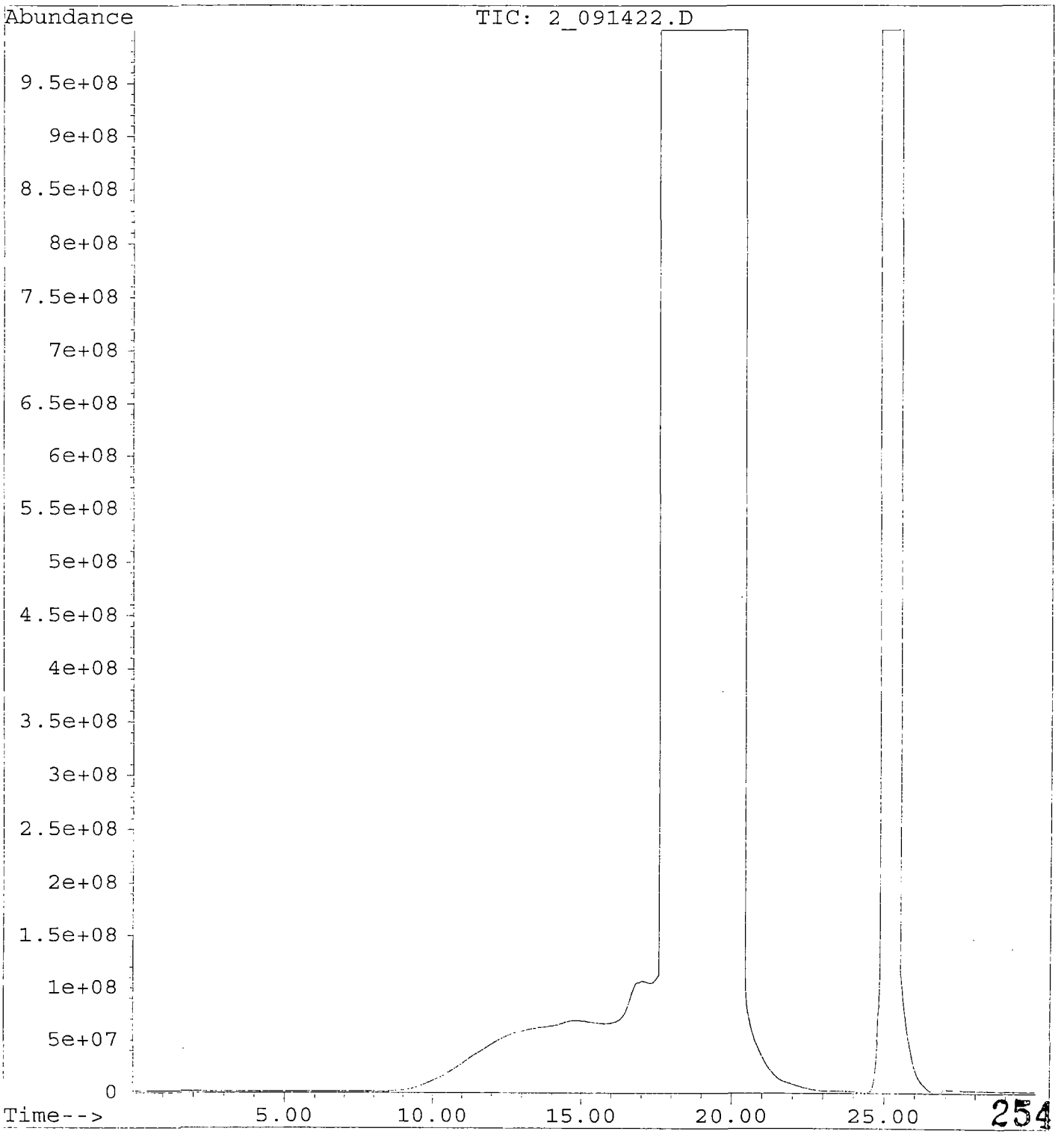
File : C:\HPCHEM\6\DATA\091401\2_091420.D
Operator : CR COL# 364134
Acquired : 14 Sep 01 22:18 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47455.12-E04P6-EPA
Misc Info : COL# 364134
Vial Number: 20



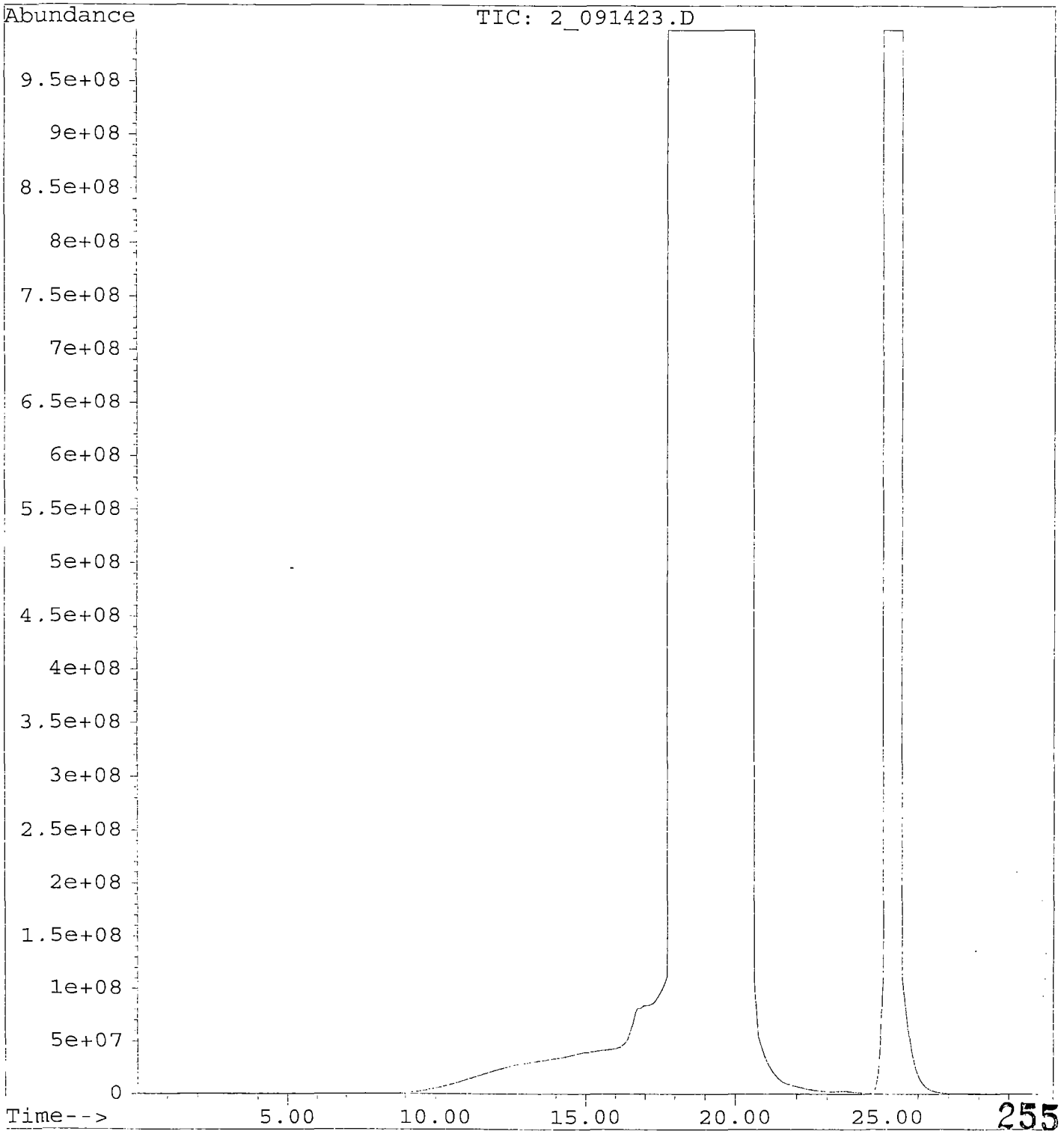
File : C:\HPCHEM\6\DATA\091401\2_091421.D
Operator : CR COL# 364134
Acquired : 14 Sep 01 22:49 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47455.06-E04P0-EPA
Misc Info : COL# 364134
Vial Number: 21



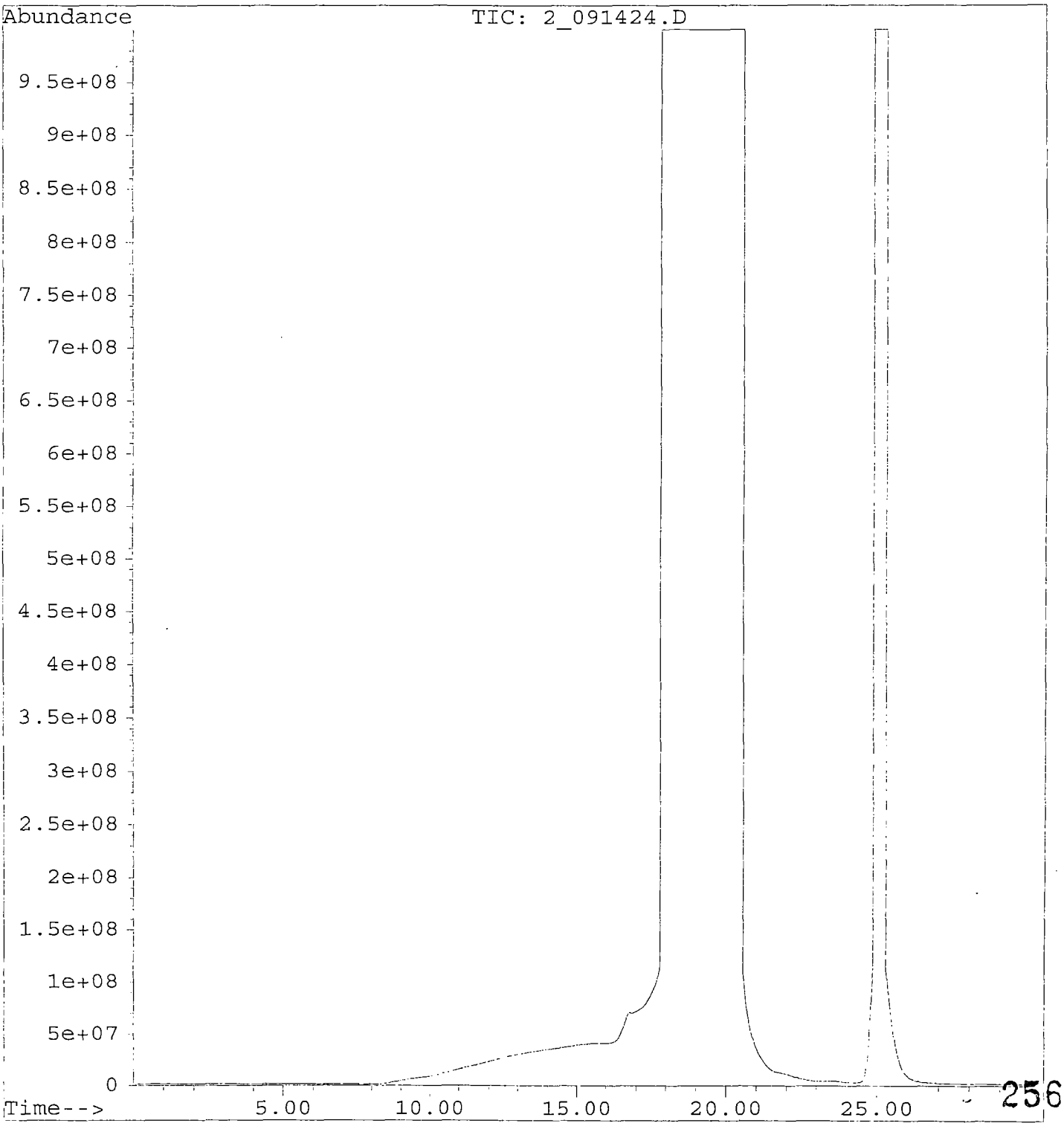
File : C:\HPCHEM\6\DATA\091401\2_091422.D
Operator : CR COL# 364134
Acquired : 14 Sep 01 23:20 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47455.17-E04Q1-EPA
Misc Info : COL# 364134
Vial Number: 22



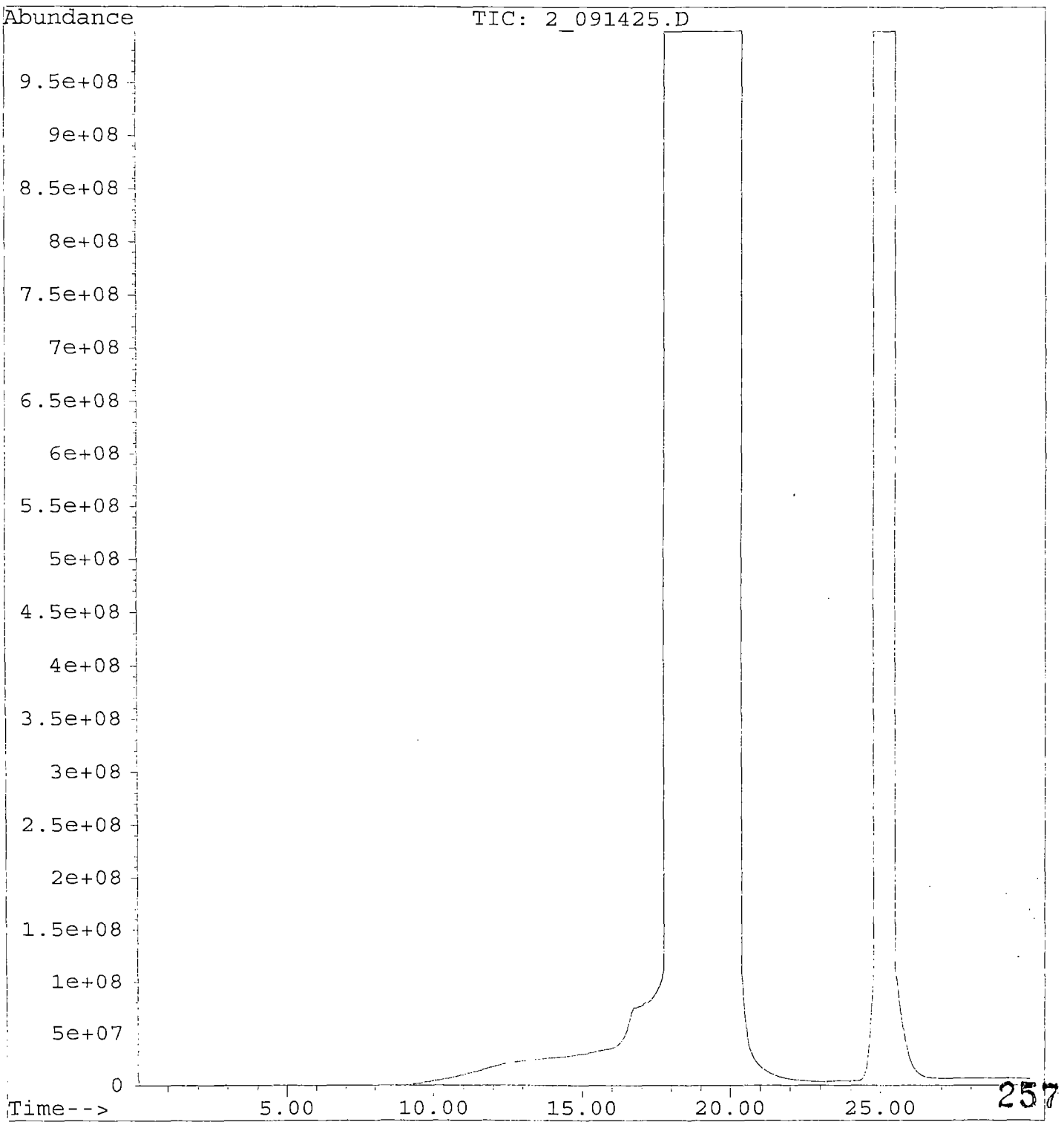
File : C:\HPCHEM\6\DATA\091401\2_091423.D
Operator : CR COL# 364134
Acquired : 14 Sep 01 23:51 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47455.16-E04Q0-EPA
Misc Info : COL# 364134
Vial Number: 23



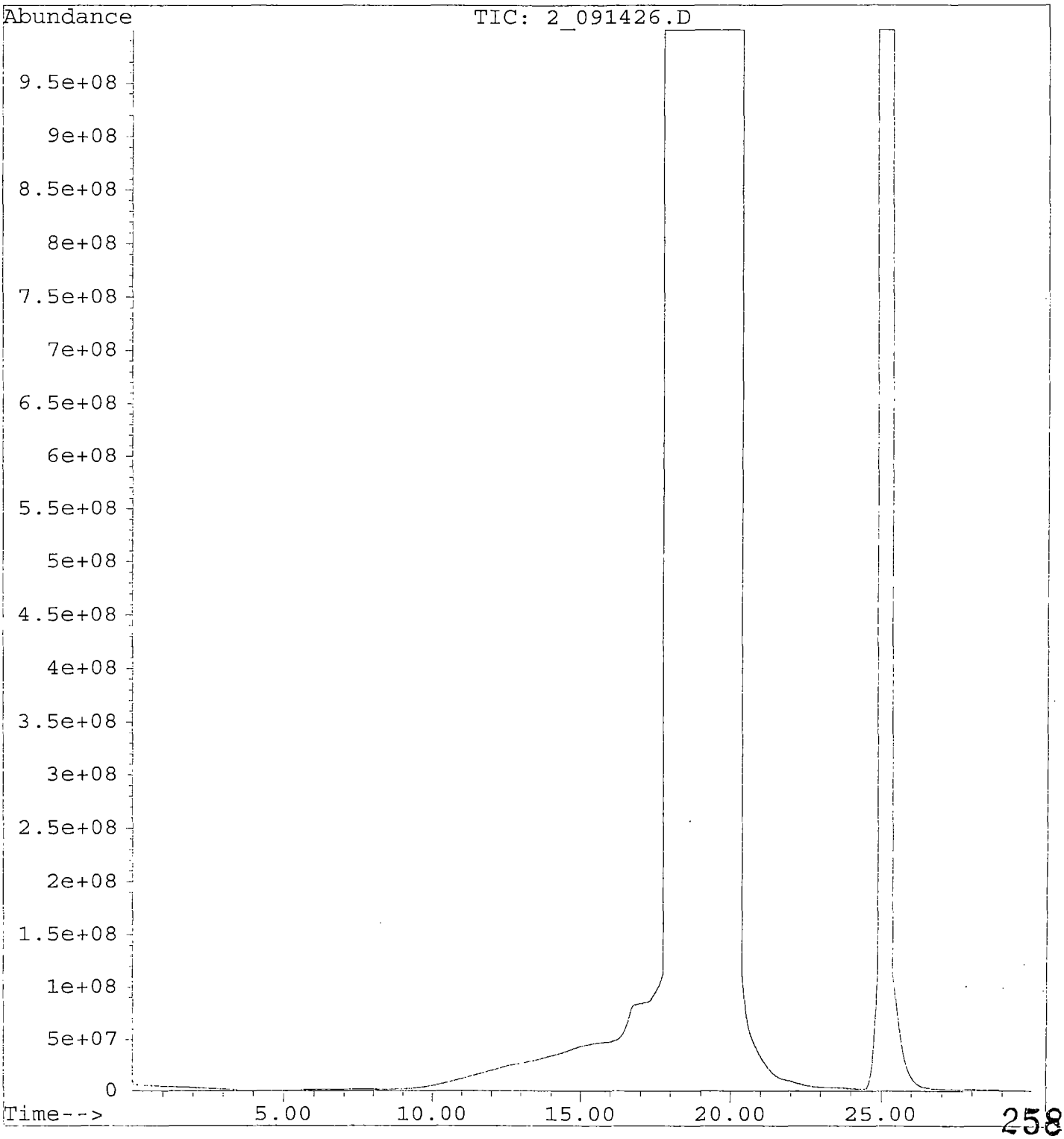
File : C:\HPCHEM\6\DATA\091401\2_091424.D
Operator : CR COL# 364134
Acquired : 15 Sep 01 00:22 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47455.07-E04P1-EPA
Misc Info : COL# 364134
Vial Number: 24



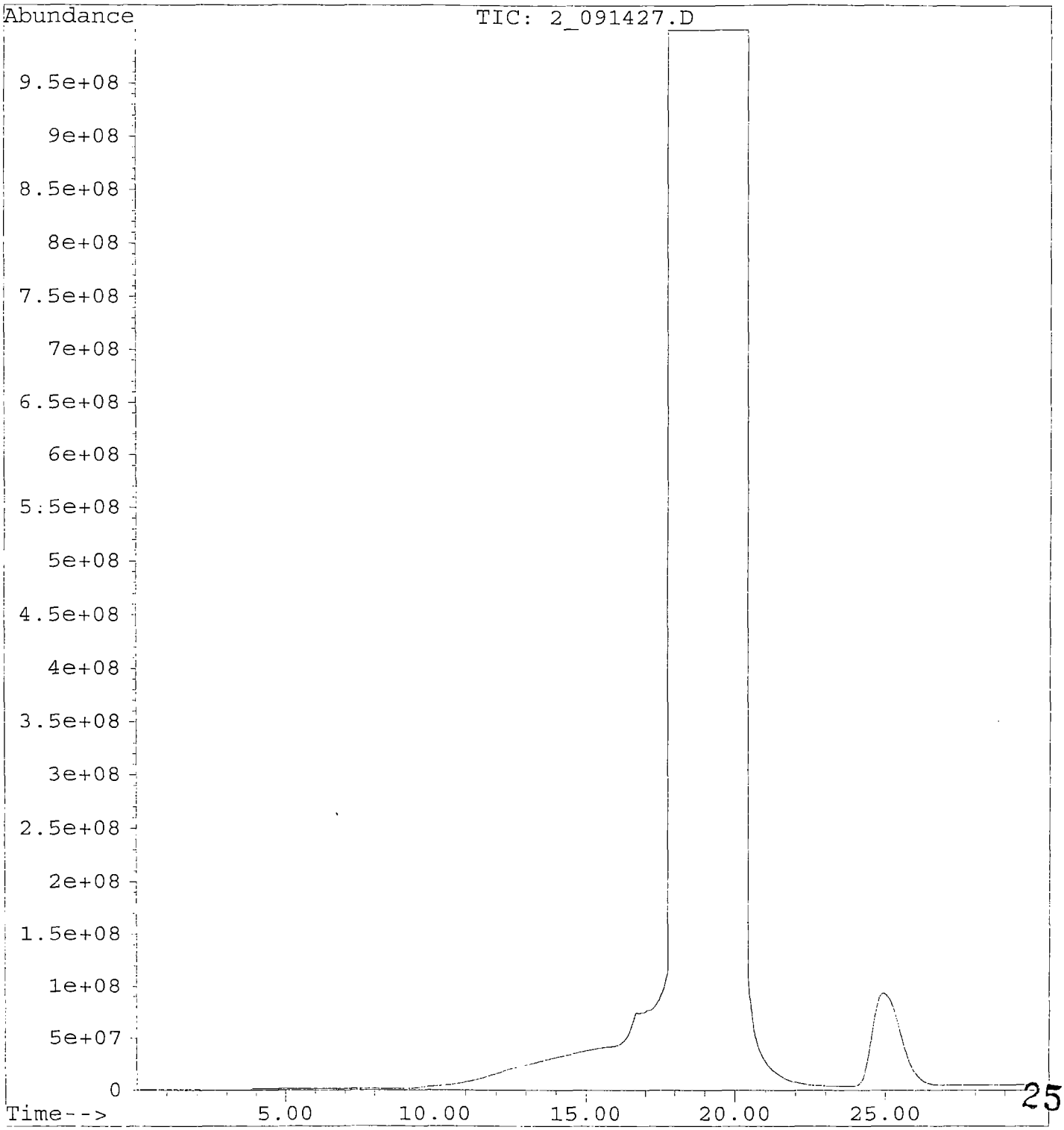
File : C:\HPCHEM\6\DATA\091401\2_091425.D
Operator : CR COL# 364134
Acquired : 15 Sep 01 00:53 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47455.10-E04P4-EPA
Misc Info : COL# 364134
Vial Number: 25



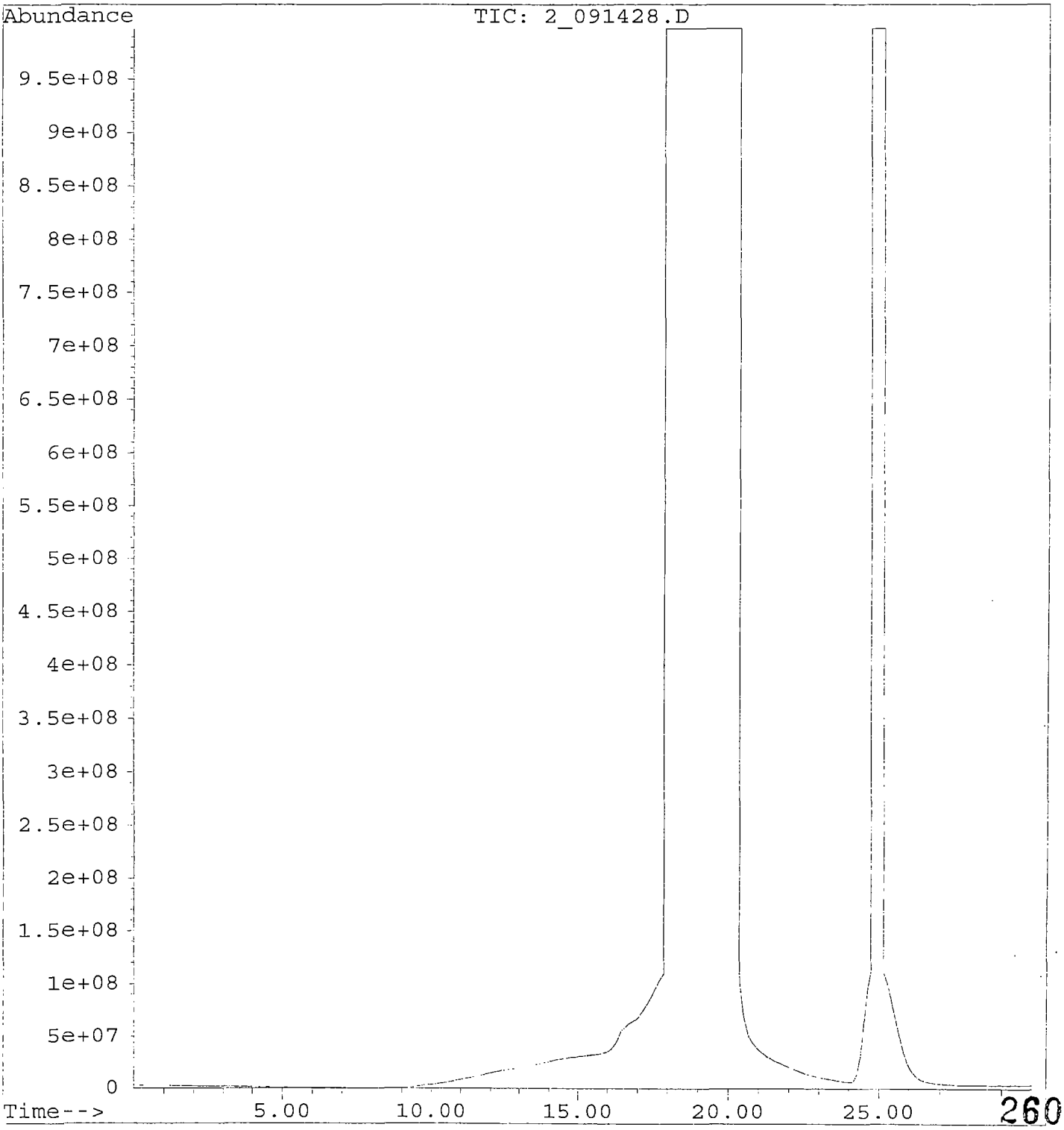
File : C:\HPCHEM\6\DATA\091401\2_091426.D
Operator : CR COL# 364134
Acquired : 15 Sep 01 01:25 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47455.20-E04Q4-EPA
Misc Info : COL# 364134
Vial Number: 26



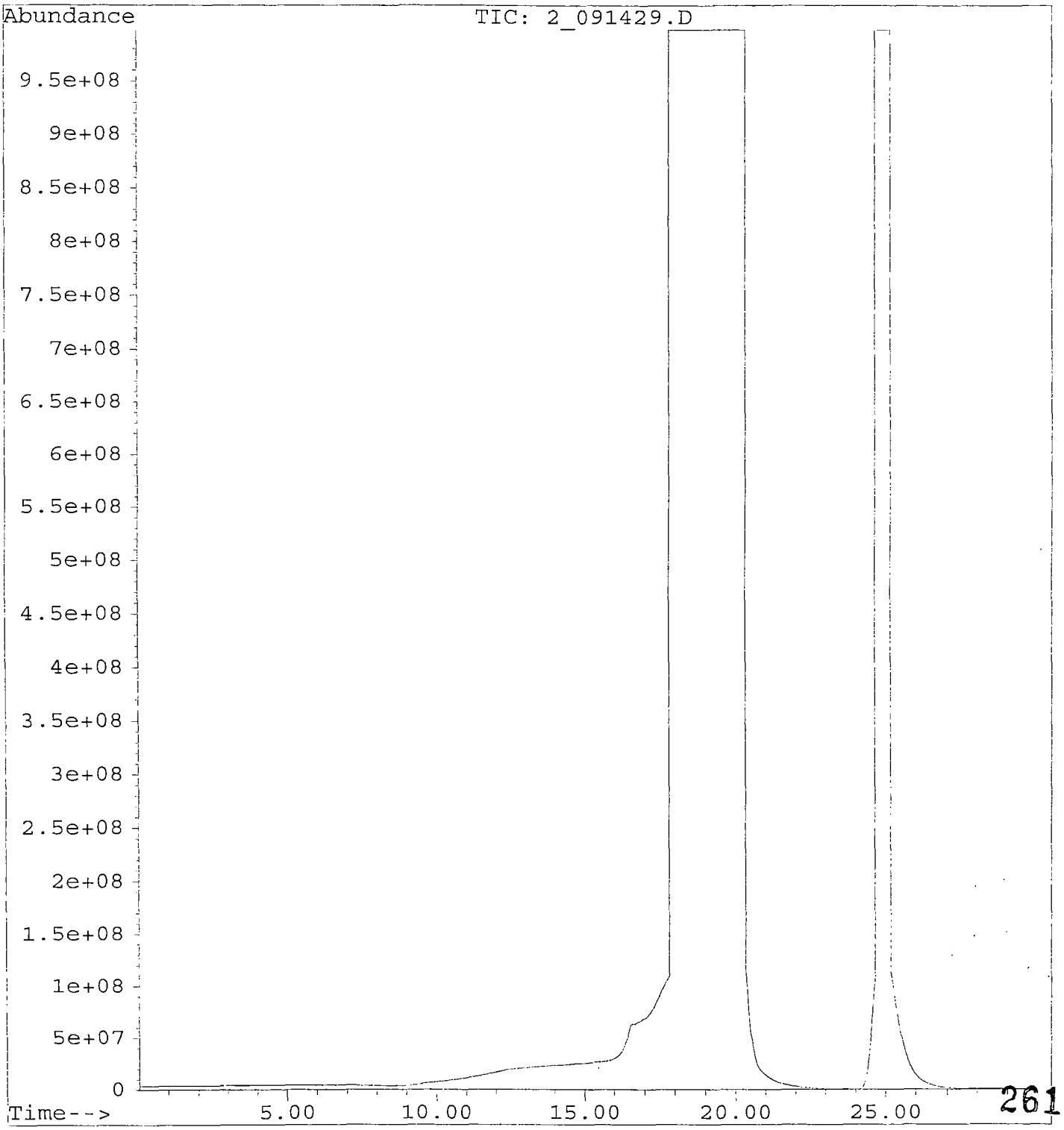
File : C:\HPCHEM\6\DATA\091401\2_091427.D
Operator : CR COL# 364134
Acquired : 15 Sep 01 01:56 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47455.09-E04P3-EPA
Misc Info : COL# 364134
Vial Number: 27



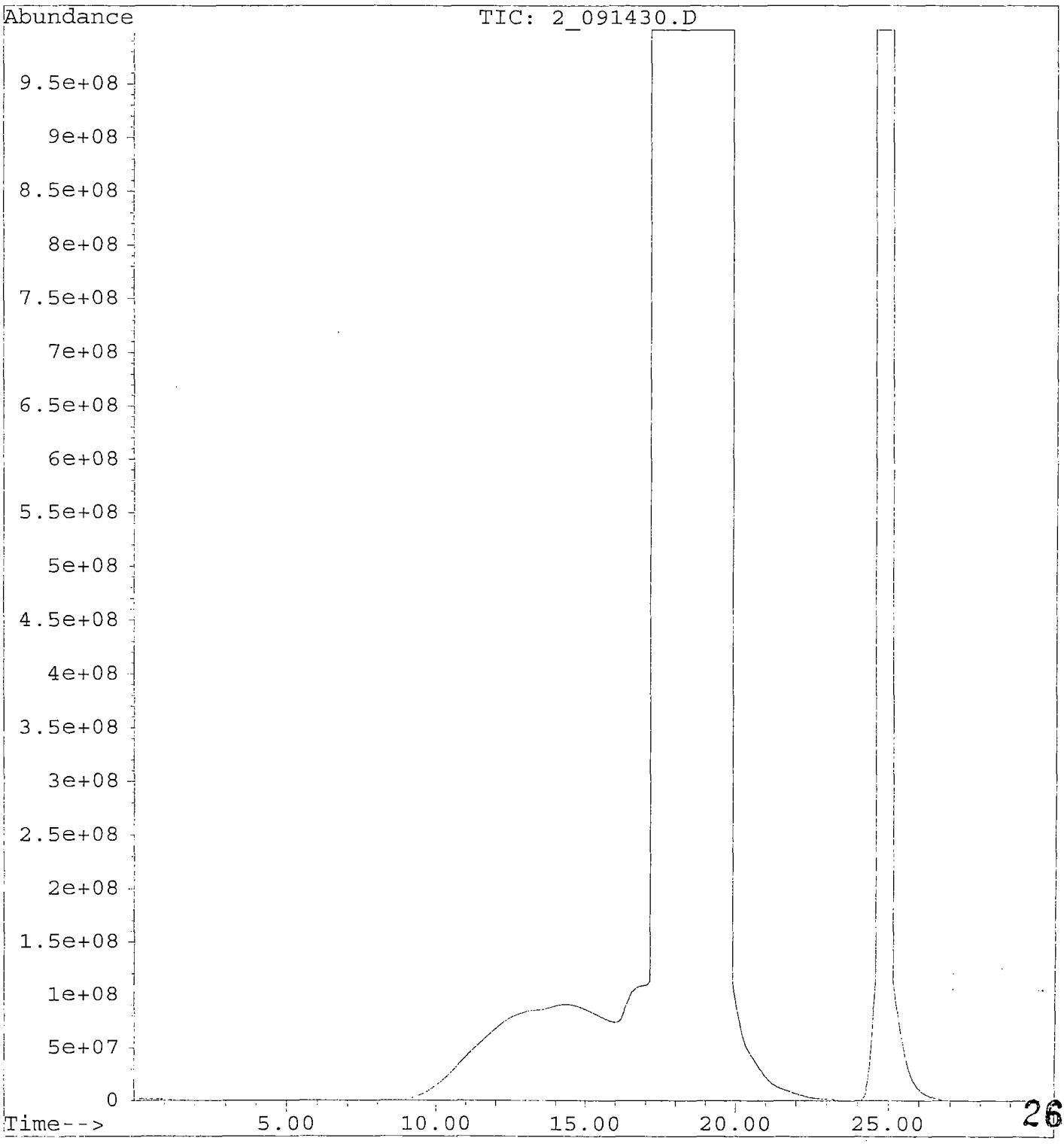
File : C:\HPCHEM\6\DATA\091401\2_091428.D
Operator : CR COL# 364134
Acquired : 15 Sep 01 02:27 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47455.15-E04P9-EPA
Misc Info : COL# 364134
Vial Number: 28



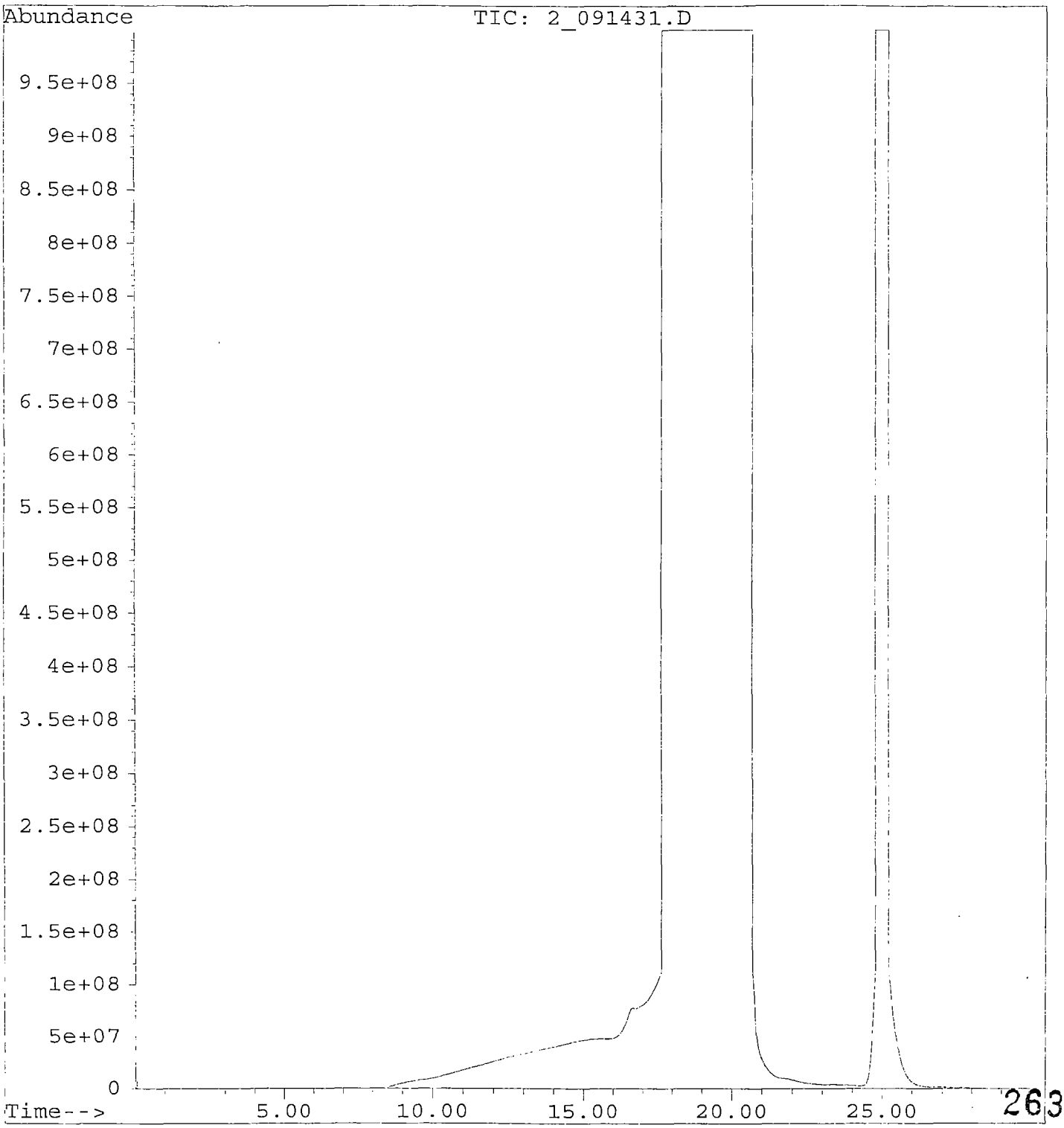
File : C:\HPCHEM\6\DATA\091401\2_091429.D
Operator : CR COL# 364134
Acquired : 15 Sep 01 02:58 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47455.14-E04P8-EPA
Misc Info : COL# 364134
Vial Number: 29



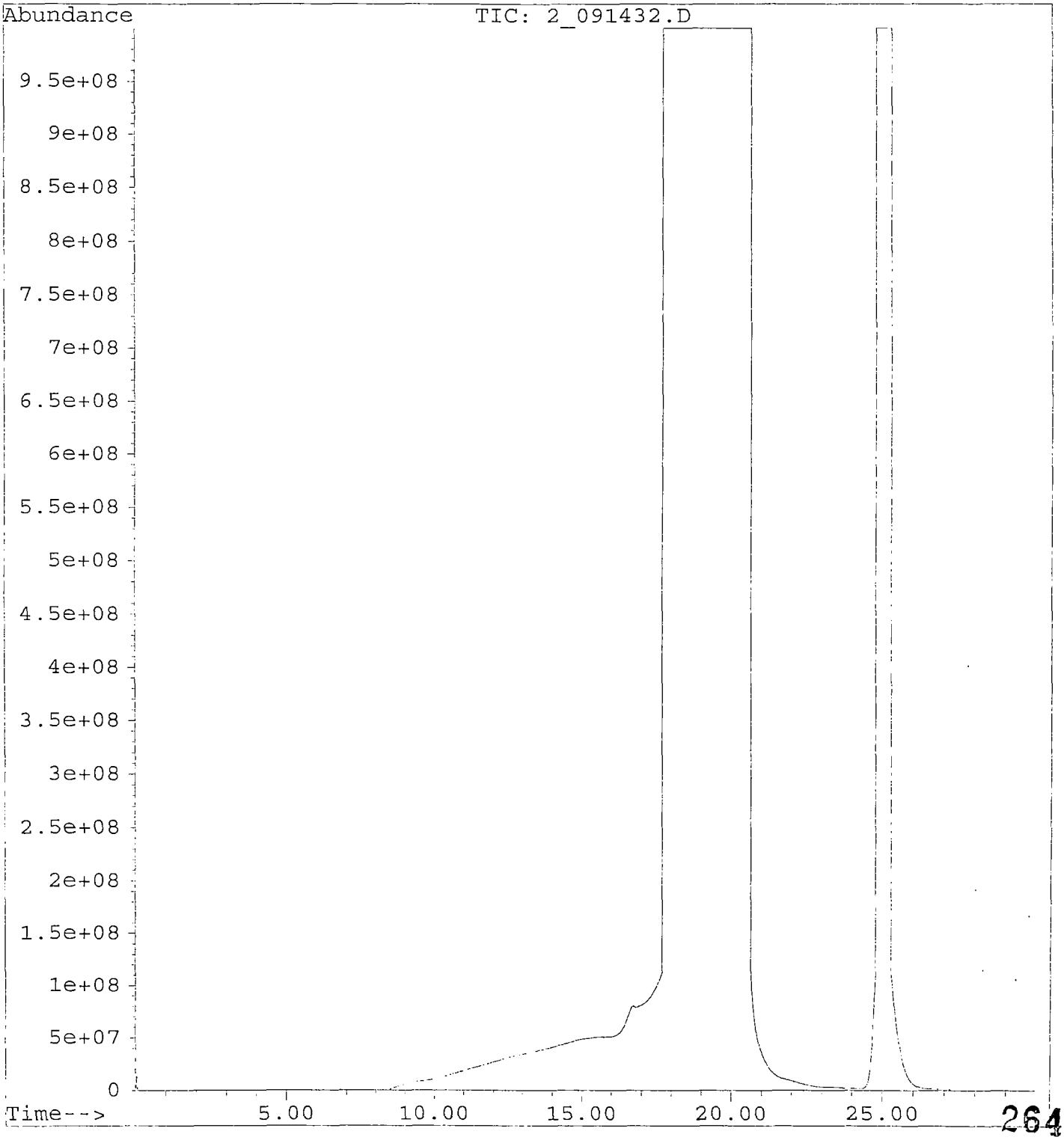
File : C:\HPCHEM\6\DATA\091401\2_091430.D
Operator : CR COL# 364134
Acquired : 15 Sep 01 03:29 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47455.18-E04Q2-EPA
Misc Info : COL# 364134
Vial Number: 30



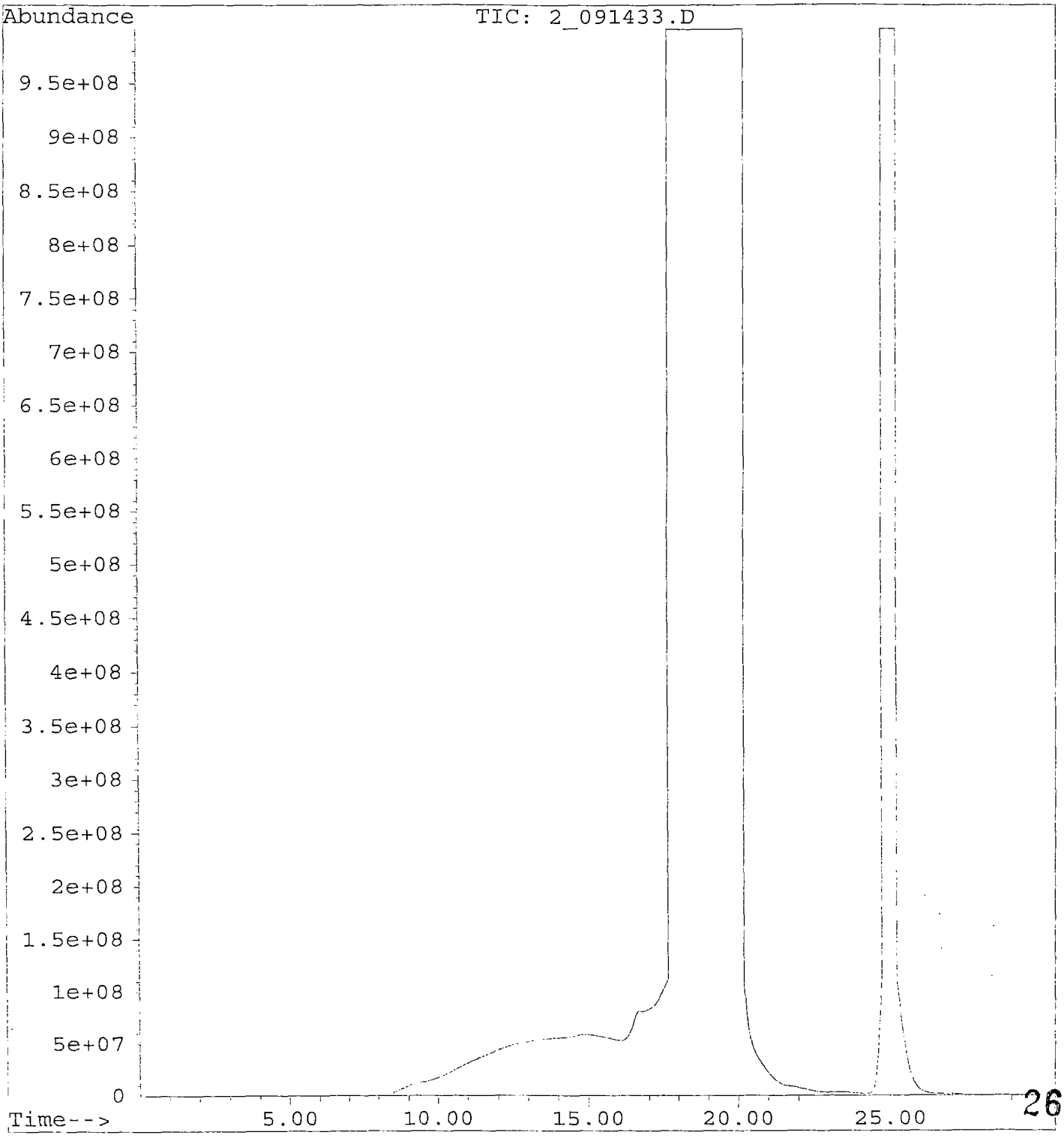
File : C:\HPCHEM\6\DATA\091401\2_091431.D
Operator : CR COL# 364134
Acquired : 15 Sep 01 04:00 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47455.01-E04M3-EPA
Misc Info : COL# 364134
Vial Number: 31



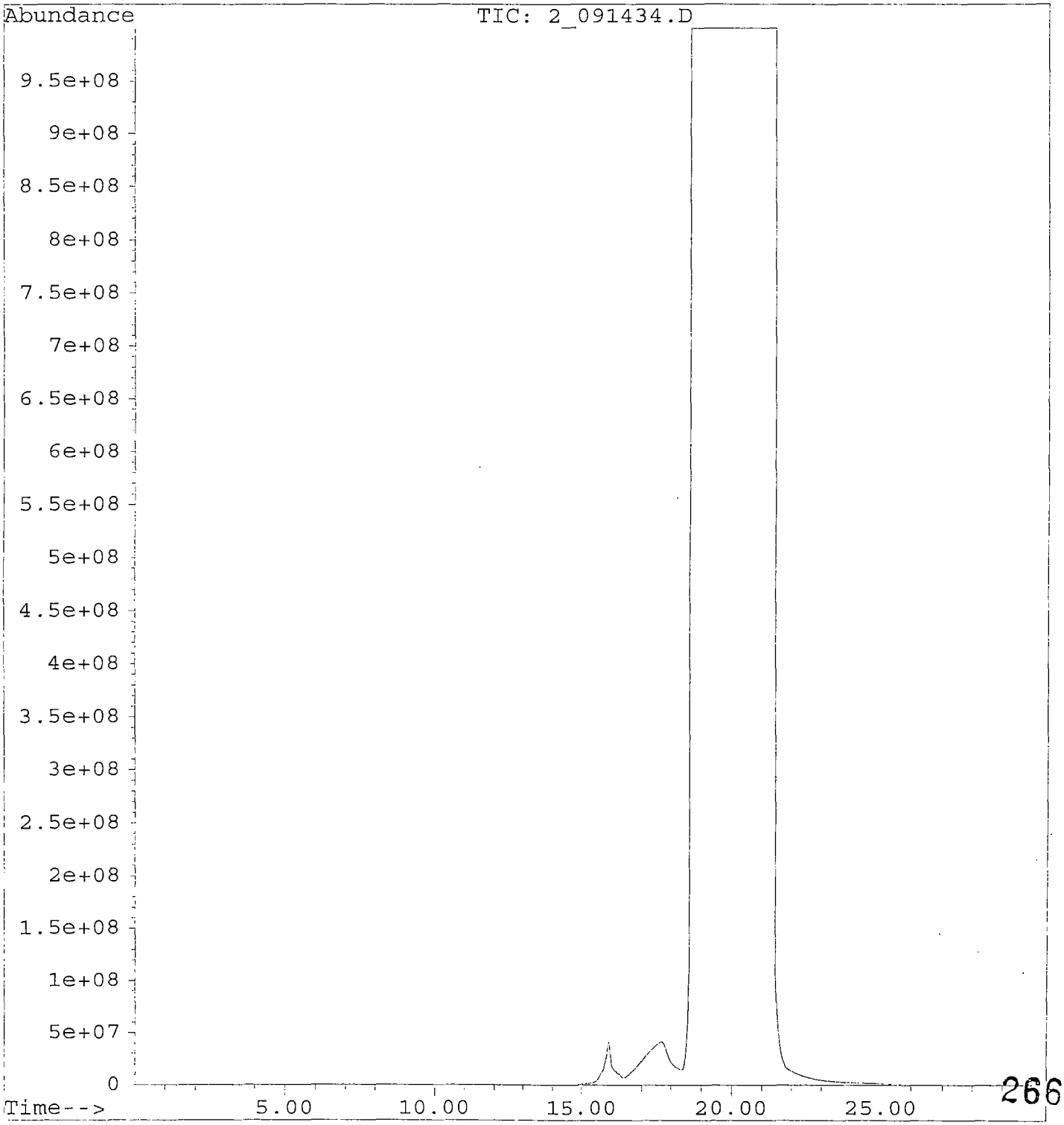
File : C:\HPCHEM\6\DATA\091401\2_091432.D
Operator : CR COL# 364134
Acquired : 15 Sep 01 04:31 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47455.02-E04M3MS-EPA
Misc Info : COL# 364134
Vial Number: 32



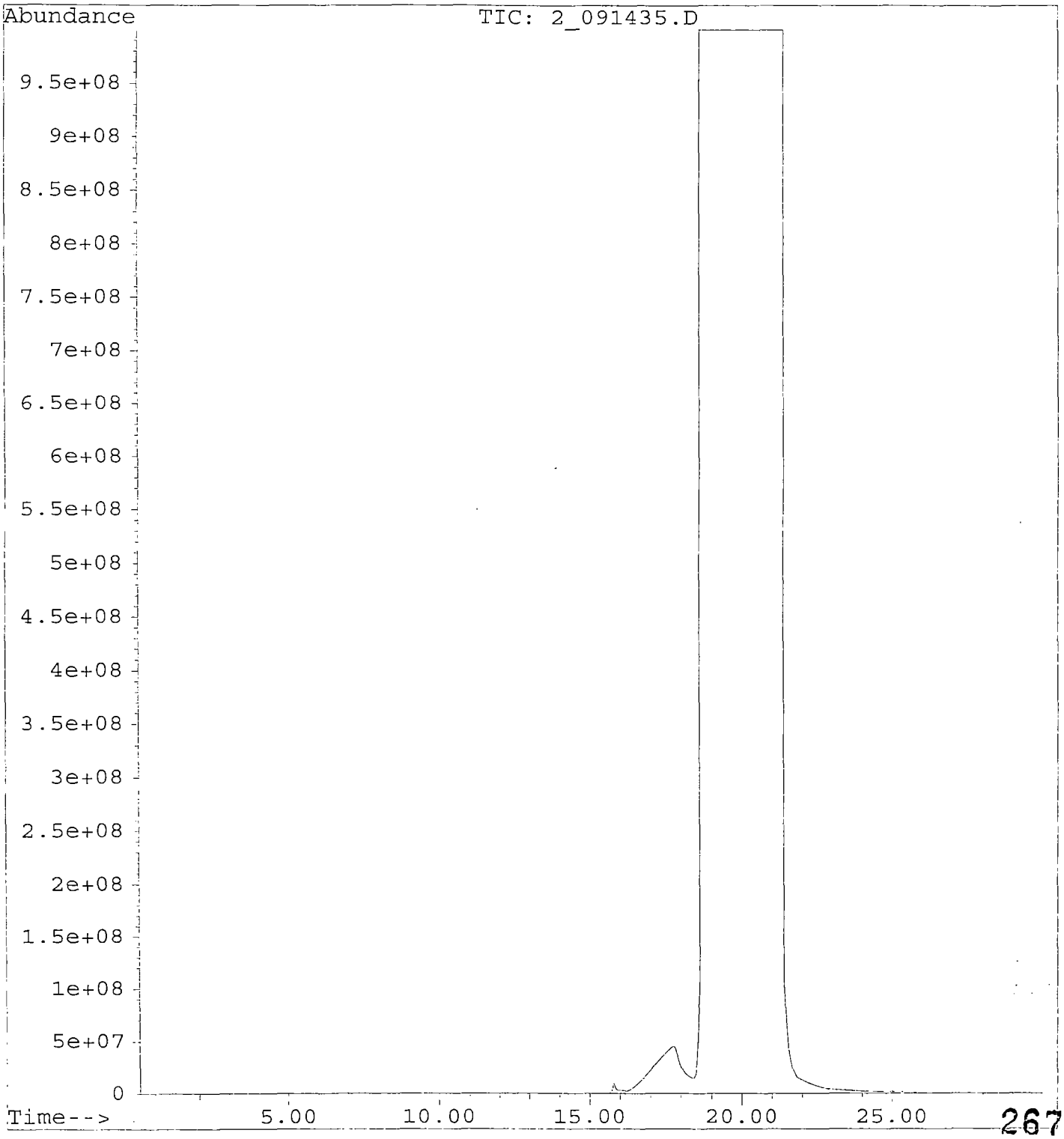
File : C:\HPCHEM\6\DATA\091401\2_091433.D
Operator : CR COL# 364134
Acquired : 15 Sep 01 05:02 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47455.03-E04M3MSD-EPA
Misc Info : COL# 364134
Vial Number: 33



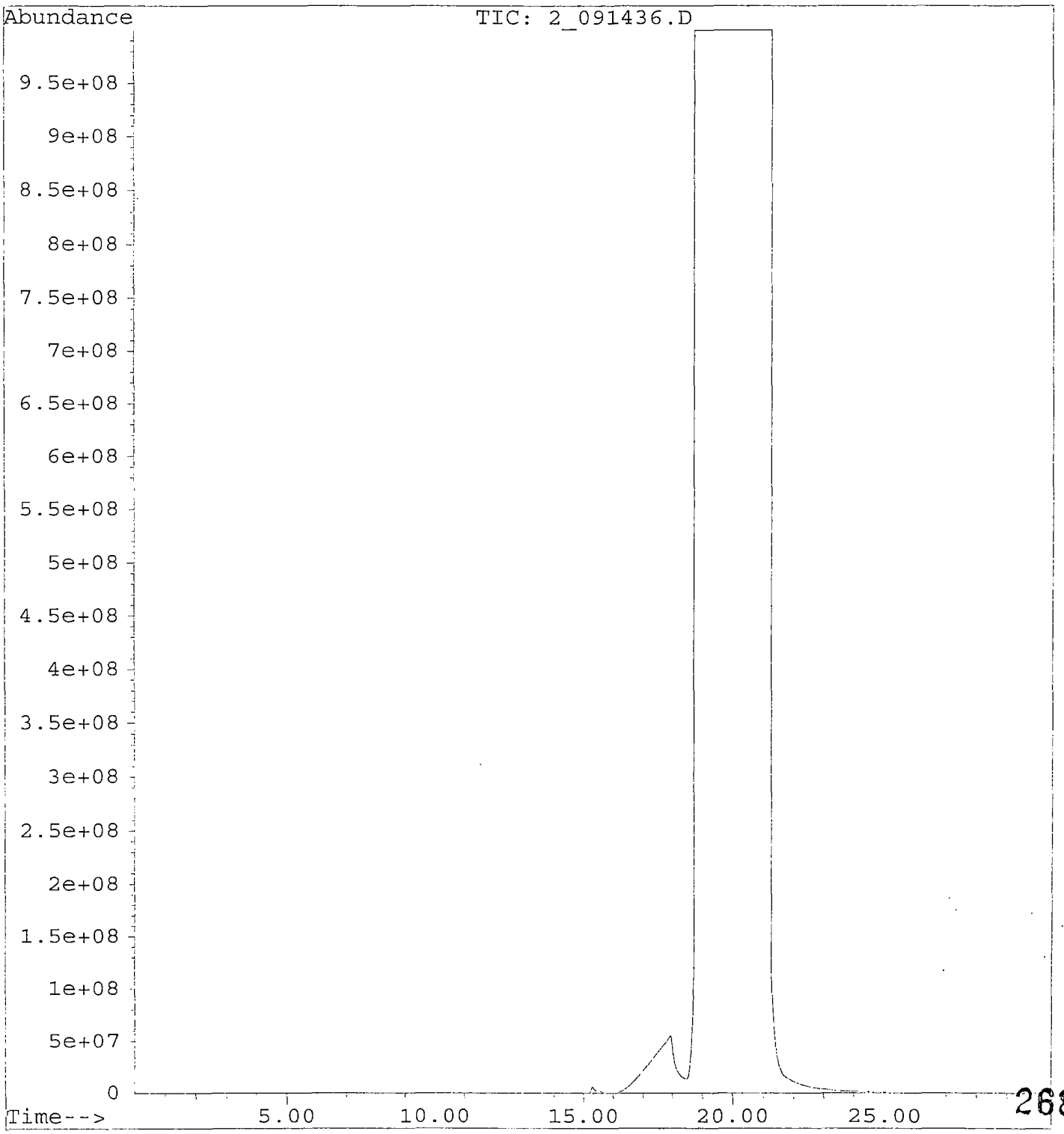
File : C:\HPCHEM\6\DATA\091401\2_091434.D
Operator : CR COL# 364134
Acquired : 15 Sep 01 05:33 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 34



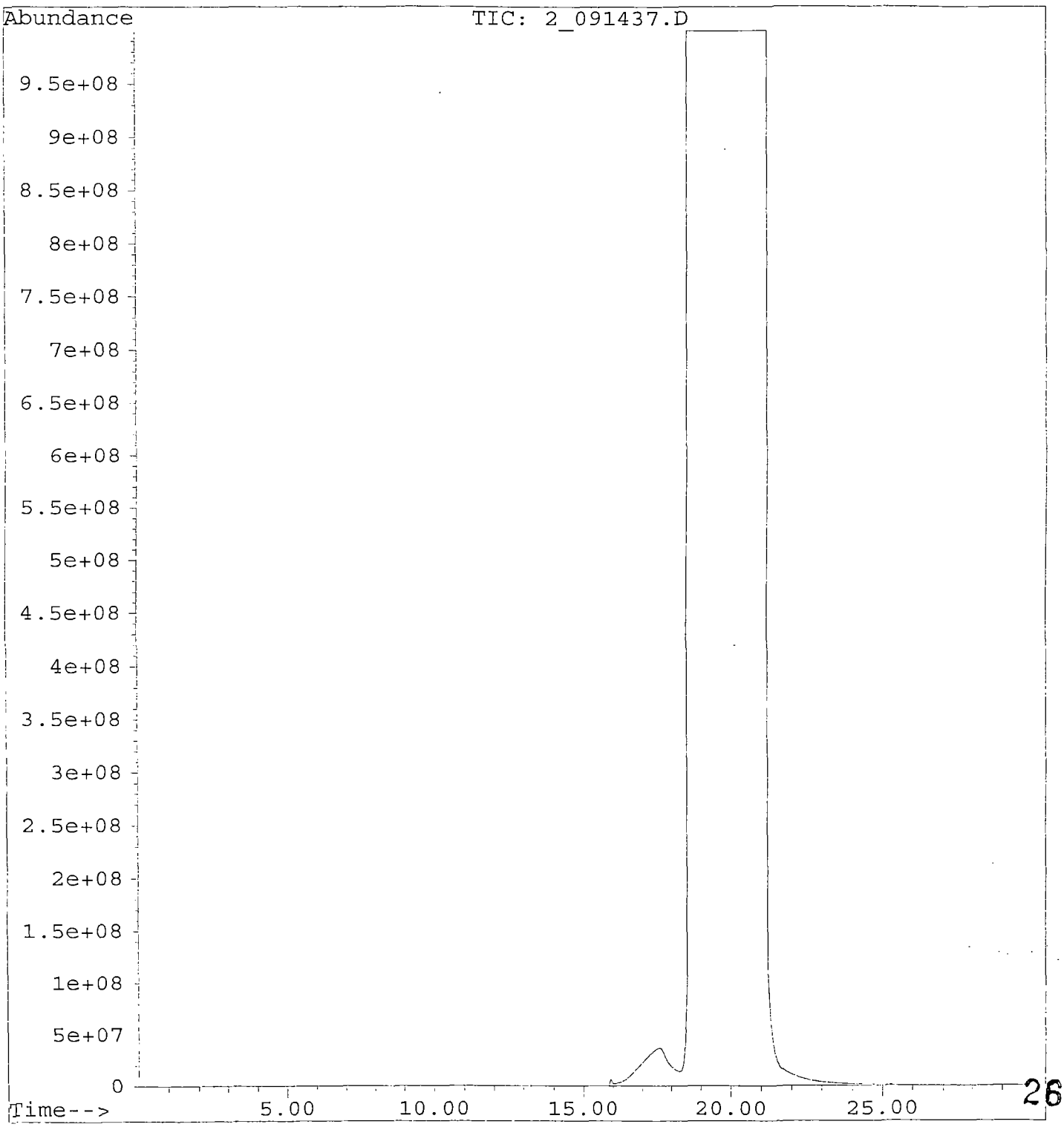
File : C:\HPCHEM\6\DATA\091401\2_091435.D
Operator : CR COL# 364134
Acquired : 15 Sep 01 06:05 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 35



File : C:\HPCHEM\6\DATA\091401\2_091436.D
Operator : CR COL# 364134
Acquired : 15 Sep 01 06:36 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 36

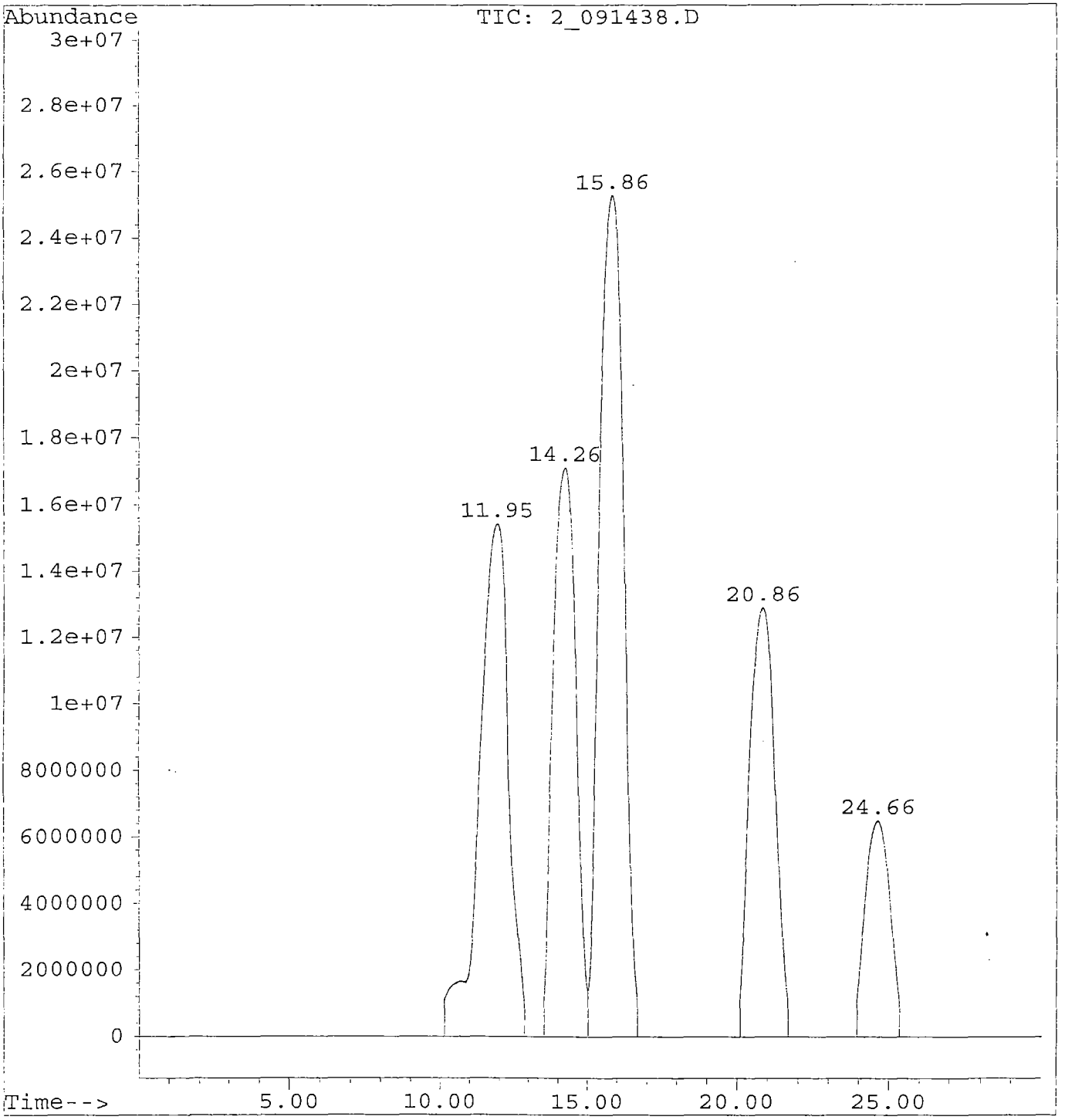


File : C:\HPCHEM\6\DATA\091401\2_091437.D
Operator : CR COL# 364134
Acquired : 15 Sep 01 07:07 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 37



Data File : C:\HPCHEM\6\DATA\091401\2_091438.D
Acq On : 15 Sep 01 07:38 AM
Sample : CAL STD (FINAL)
Misc : COL# 364134

Vial: 38
Operator: CR COL#
Inst : GPC2
Multiplr: 1.00



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Chromatographic Resolution Report

Data File : C:\HPCHEM\6\DATA\091401\2_091438.D
Acq On : 15 Sep 01 07:38
Sample : CAL STD (FINAL)
Misc : COL# 364134

Vial: 38
Operator: CR COL# 36
Inst : GPC2
Multiplr: 1.00

Method : C:\HPCHEM\6\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.946	14.256	100.00
14.256	15.856	91.93
15.856	20.858	100.00
20.858	24.657	100.00

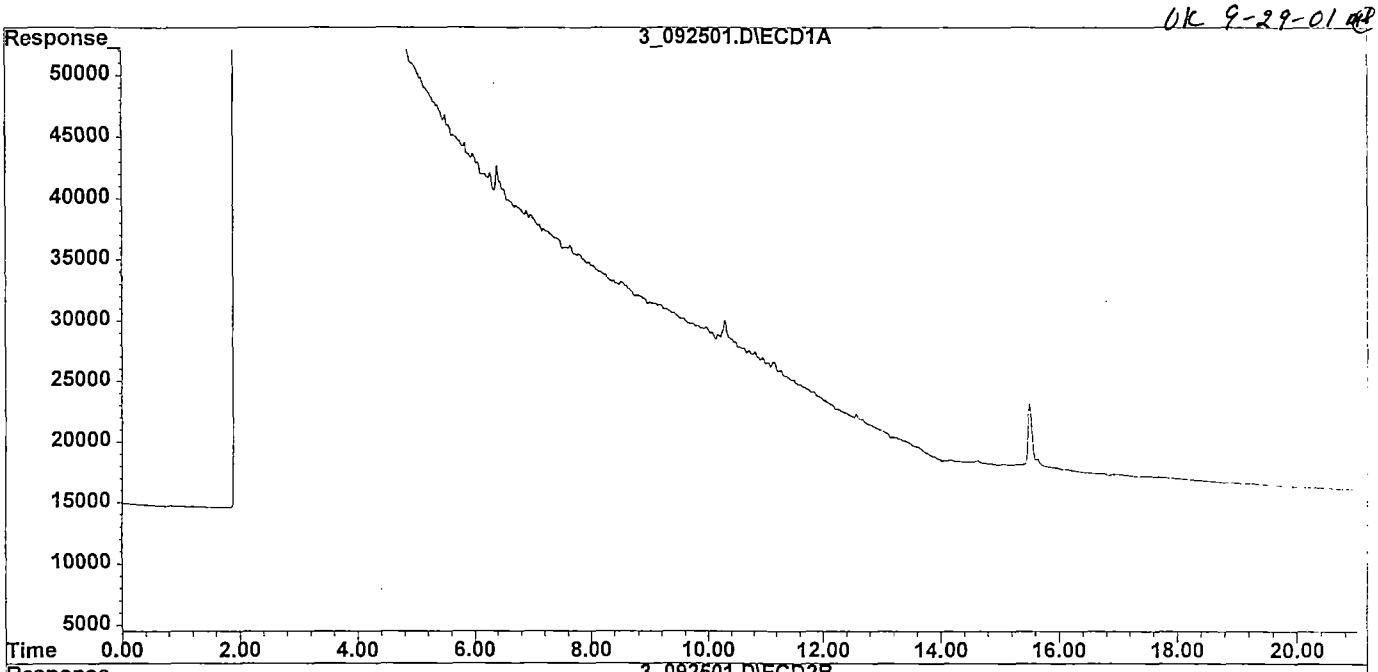
Chromatographic Report

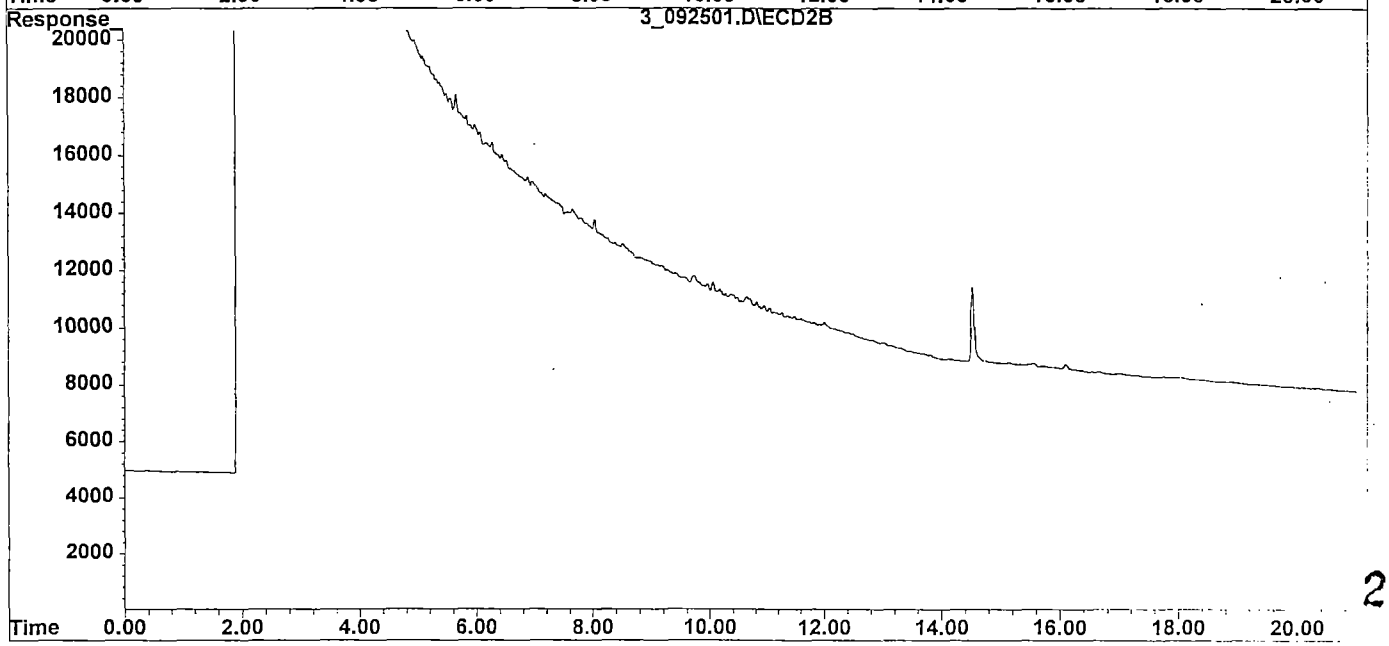
Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092501.D\ECD1A.CH Vial: 59
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092501.D\ECD2B.CH
Acq On : 26 Sep 2001 1:59 , Operator: BTB
Sample : SB091401A *SB091401A * Inst : HP_03
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 11:23 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

OK 9-29-01





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092501.D\ECD1A.CH Vial: 59
Signal #2 : F:\HPCHEM\HP\3\DATA\09_25_01\3_092501.D\ECD2B.CH
Acq On : 26 Sep 2001 1:59 Operator: BTB
Sample : SB091401A *SB091401A * Inst : HP_03
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 26 11:23 2001 Quant Results File: XPCBI24.RES

Method : F:\HPCHEM\HP\3\DATA\09_25_01\XPCBI24.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\09_24_01\
Last Update : Thu Sep 06 08:09:33 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_03A Signal #2 Inst : HP_03B

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

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_03
SDG NO. : SWLO METHOD FILE(S): XPCB~~107~~ I24 09/30/01

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/24/01 11:08	HEX	HEX	3_092401	SOL
09/24/01 12:51	PIBLK3W	5-131-7	3_092402	OK
09/24/01 13:16	AR1660L3O	5-210-7	3_092403	
09/24/01 13:42	AR1660L33P	5-210-7	3_092404	
09/24/01 14:56	RESC3E	5-171-7	3_092405	
09/24/01 15:21	AR1221L33Q	5-420-6	3_092406	
09/24/01 15:47	AR1232L33Q	5-422-6	3_092407	
09/24/01 16:13	AR1242L13Q	5-11-7	3_092408	
09/24/01 16:38	AR1242L23Q	5-10-7	3_092409	
09/24/01 17:04	AR1242L33Q	5-9-7	3_092410	
09/24/01 17:30	AR1242L43Q	5-8-7	3_092411	
09/24/01 17:55	AR1242L53Q	5-7-7	3_092412	
09/24/01 18:21	AR1248L33Q	5-424-6	3_092413	
09/24/01 18:47	AR1254L13Q	5-6-7	3_092414	
09/24/01 19:13	AR1254L23Q	5-5-7	3_092415	
09/24/01 19:38	AR1254L33Q	5-4-7	3_092416	
09/24/01 20:04	AR1254L43Q	5-3-7	3_092417	
09/24/01 20:30	AR1254L53Q	5-2-7	3_092418	
09/24/01 20:55	AR1660L13Q	5-295-7	3_092419	
09/24/01 21:21	AR1660L23Q	5-294-7	3_092420	
09/24/01 21:47	AR1660L33Q	5-293-7	3_092421	

Unless noted, Client Ids are the same for the quant. & confirmation columns

9-26-01
Verification Signature/Date

Blaine Baldwin 092601
Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_03
SDG NO. : SWLO METHOD FILE(S): XPCB~~I07~~ I24 of 09/30/01

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/24/01 22:12	AR1660L43Q	5-292-7	3_092422	OK
09/24/01 22:38	AR1660L53Q	5-291-7	3_092423	
09/24/01 23:04	PIBLK3X	5-131-7	3_092424	
09/24/01 23:29	SB091001A	SB091001A	3_092425	OK
09/24/01 23:55	SB091001B	SB091001B	3_092426	
09/25/01 00:21	PBLKSC	BL0906SC	3_092427	
09/25/01 00:46	PBLKSC	BB0906SC	3_092428	
09/25/01 1:12	ELSC1	LC0906SC	3_092429	
09/25/01 1:38	ELCS2	LD0906SC	3_092430	
09/25/01 2:03	E04B0	47430.01	3_092431	
09/25/01 2:29	E04B0MS	47430.02MS	3_092432	
09/25/01 2:54	E04B0MSD	47430.03MSD	3_092433	
09/25/01 3:20	E04B1	47430.04	3_092434	
09/25/01 3:46	PIBLK3Y	5-131-7	3_092435	OK
09/25/01 4:11	AR1660L33R	5-293-7	3_092436	OK
09/25/01 4:37	AR1660L33S	5-293-7	3_092437	NV
09/25/01 5:03	HEX	HEX	3_092438	SOL
09/25/01 5:28	HEX	HEX	3_092439	SOL
09/25/01 5:54	HEX	HEX	3_092440	SOL
09/25/01 6:19	E04B2	47430.05	3_092441	OK
09/25/01 6:45	E04B3	47430.06	3_092442	

Unless noted, Client Ids are the same for the quant. & confirmation columns

Verification Signature/Date

Blaine Bolding 092601
Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_03
SDG NO. : SWLO METHOD FILE(S): XPCB~~I07~~ I24 of 09/30/01

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/25/01 16:09	E04C9	47450.11	3_092464	OK
09/25/01 16:34	E03P9DL	47366.07DL	3_092465	Verifies 3-092019
09/25/01 17:00	E03Q0DL	47366.08DL	3_092466	Verifies 3-092020
09/25/01 17:26	HEX	HEX	3_092467	SOL
09/25/01 17:51	HEX	HEX	3_092468	SOL
09/25/01 18:17	HEX	HEX	3_092469	SOL
09/25/01 18:43	PIBLK3A	5-131-7	3_092470	OK
09/25/01 19:08	AR1660L33V	5-293-7	3_092471	OK
09/25/01 19:34	AR1660L33W	5-293-7	3_092472	NV
09/25/01 20:00	E0418DL	47391.06DL	3_092473	Verifies 3-092167
09/25/01 20:25	E0419DL	47391.07DL	3_092474	Verifies 3-092168
09/25/01 20:51	E0425DL	47391.13DL	3_092475	NV I
09/25/01 21:17	E0426DL	47391.14DL	3_092476	Verifies 3-092175
09/25/01 21:42	E0431DL	47391.19DL	3_092477	Verifies 3-092186
09/25/01 22:08	E0432DL	47391.20DL	3_092478	Verifies 3-092187
09/25/01 22:34	E0433DL	47391.21DL	3_092479	Verifies 3-092188
09/25/01 22:59	E0434DL	47391.22DL	3_092480	Verifies 3-092189
09/25/01 23:25	HEX	HEX	3_092481	SOL
09/25/01 23:51	HEX	HEX	3_092482	SOL
09/26/01 00:16	HEX	HEX	3_092483	SOL
09/26/01 00:42	PIBLK3B	5-131-7	3_092484	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

9-26-01 Verification Signature/Date

Blaine Bailey 092601 Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_03
SDG NO. : SWLO METHOD FILE(S): XPCB~~I07~~ I24 09/30/01

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/26/01 1:08	AR1660L33X	5-293-7	3_092485	OK
09/26/01 1:33	AR1660L33Y	5-293-7	3_092486	NV

Unless noted, Client Ids are the same for the quant. & confirmation columns

9-26-01 Verification Signature/Date

Blaine Bailey 092601 Analyst Signature/Date

Page No.: 48

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_03
SDG NO. : SWLO METHOD FILE(S): XPCBI~~07~~ I24 09/30/01

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/26/01 1:59	SB091401A	SB091401A	3_092501	OK
09/26/01 2:24	SB091401B	SB091401B	3_092502	
09/26/01 2:50	PBLKSD	BL0908SD	3_092503	
09/26/01 3:16	PBLKSD	BB0908SD	3_092504	
09/26/01 3:41	ELCS1	LC0908SD	3_092505	
09/26/01 4:07	ELCS2	LD0908SD	3_092506	
09/26/01 4:33	E04M3	47455.01	3_092507	
09/26/01 4:58	E04M3MS	47455.02MS	3_092508	
09/26/01 5:24	E04M3MSD	47455.03MSD	3_092509	
09/26/01 5:50	E04M4	47455.04	3_092510	
09/26/01 6:16	HEX	HEX	3_092511	SOL
09/26/01 6:41	HEX	HEX	3_092512	SOL
09/26/01 7:07	HEX	HEX	3_092513	SOL
09/26/01 7:33	PIBLK3C	5-131-7	3_092514	OK
09/26/01 8:07	AR1660L33Z	5-293-7	3_092515	OK
09/26/01 8:32	AR1660L33A	5-293-7	3_092516	NU
09/26/01 8:58	E04M5	47455.05	3_092517	OK
09/26/01 9:24	E04P0	47455.06	3_092518	
09/26/01 9:49	E04P1	47455.07	3_092519	
09/26/01 10:15	E04P2	47455.08	3_092520	
09/26/01 10:41	E04P3	47455.09	3_092521	

Unless noted, Client Ids are the same for the quant. & confirmation columns

Alan Swart 9/27/01
Verification Signature/Date

Blaine Baldwin 092701
Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_03
SDG NO. : SWLO METHOD FILE(S): XPCB~~I07~~ T34 09/30/01

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/26/01 11:07	E04P4	47455.10	3_092522	OK
09/26/01 11:32	E04P5	47455.11	3_092523	
09/26/01 11:58	E04P6	47455.12	3_092524	
09/26/01 12:24	E04P7	47455.13	3_092525	
09/26/01 12:49	E0425DL	47391.13DL	3_092526	Verifies 3092174
09/26/01 13:15	E04C4DL	47450.06DL	3_092527	Verifies 3092459
09/26/01 13:41	HEX	HEX	3_092528	SOL
09/26/01 14:07	HEX	HEX	3_092529	SOL
09/26/01 14:32	HEX	HEX	3_092530	SOL
09/26/01 14:58	PIBLK3D	5-131-7	3_092531	OK
09/26/01 15:24	AR1660L33B	5-293-7	3_092532	OK
09/26/01 15:50	AR1660L33C	5-293-7	3_092533	NV
09/26/01 16:16	E04P8	47455.14	3_092534	OK
09/26/01 16:41	E04P9	47455.15	3_092535	
09/26/01 17:07	E04Q0	47455.16	3_092536	
09/26/01 17:33	E04Q1	47455.17	3_092537	
09/26/01 17:58	E04Q2	47455.18	3_092538	
09/26/01 18:24	E04Q3	47455.19	3_092539	
09/26/01 18:50	E04Q4	47455.20	3_092540	
09/26/01 19:16	E04Q5	47455.21	3_092541	
09/26/01 19:41	E04Q6	47455.22	3_092542	

Unless noted, Client Ids are the same for the quant. & confirmation columns

9/27/01 — Verification Signature/Date

09270 — Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_03
SDG NO. : SWLO METHOD FILE(S): XPCB~~I07~~ I24 09/30/01

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/26/01 20:07	HEX	HEX	3_092543	SOL
09/26/01 20:33	HEX	HEX	3_092544	SOL
09/26/01 20:58	HEX	HEX	3_092545	SOL
09/26/01 21:24	PIBLK3E	5-131-7	3_092546	BTB092701 ~~Out~~ OK
09/26/01 21:50	AR1660L33D	5-293-7	3_092547	Out
09/26/01 22:15	AR1660L33E	5-293-7	3_092548	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

Allan Swart 9/27/01
Verification Signature/Date

Blaine Baldy 092701
Analyst Signature/Date

Page No.: 51

	SV	ST • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

☐ RUSH ☐ REEXTRACT ☐ TCLP ☐ DXIN

SAMPLE EXTRACTION L

9/11

BATCH: 010908SD

EXTRACT DATE: 2001-09-08 07:29

003077

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		
BL0908SD			S/L				30.00	300	10/5	45	2.0		5.0	5.0	N		1000		
BB0908SD			S/L				30.00	300	10/5	45	2.0		5.0	5.0	N		1000		
LC0908SD			S/L				30.00	300	10/5	45	2.0		5.0	5.0	N	1000	1000		
LD0908SD			S/L				30.00	300	10/5	45	2.0		5.0	5.0	N	1000	1000		
47455.01 GC699	EPA 29684	08/30/2001 08:15 E04M3	S/L	7.13	62.71	11.3	30.19	300	10/5	45	2.0		5.0	5.0	N		1000		
47455.02MS GC699	EPA 29684	08/30/2001 08:15 E04M3MS	S/L	7.13	62.71	11.3	30.22	300	10/5	45	2.0		5.0	5.0	N	1000	1000		
47455.03MSD GC699	EPA 29684	08/30/2001 08:15 E04M3MSD	S/L	7.13	62.71	11.4	30.68	300	10/5	45	2.0		5.0	5.0	N	1000	1000		
47455.04 GC699	EPA 29684	08/30/2001 08:15 E04M4	S/L	7.60	57.45	13.1	30.75	300	10/5	45	2.0		5.0	5.0	N		1000		
47455.05 GC699	EPA 29684	08/30/2001 08:15 E04M5	S/L	7.63	59.58	12.4	30.56	300	10/5	45	2.0		5.0	5.0	N		1000		
47455.06 GC699	EPA 29684	08/30/2001 08:15 E04P0	S/L	7.19	62.01	11.6	30.41	300	10/5	45	2.0		5.0	5.0	N		1000		
47455.07 GC699	EPA 29684	08/30/2001 08:15 E04P1	S/L	7.48	57.68	12.7	30.00	300	10/5	45	2.0		5.0	5.0	N		1000		
47455.08 GC699	EPA 29684	08/30/2001 08:15 E04P2	S/L	7.71	28.57	21.9	30.59	300	10/5	45	2.0		5.0	5.0	N		1000		
47455.09 GC699	EPA 29684	08/30/2001 08:15 E04P3	S/L	7.41	55.28	13.4	30.07	300	10/5	45	2.0		5.0	5.0	N		1000		
47455.10 GC699	EPA 29684	08/30/2001 08:15 E04P4	S/L	7.46	56.15	13.2	30.12	300	10/5	45	2.0		5.0	5.0	N		1000		
47455.11 GC699	EPA 29684	08/30/2001 08:15 E04P5	S/L	7.19	60.21	12.2	30.60	300	10/5	45	2.0		5.0	5.0	N		1000		

INITIALS

WEIGHING:	MC	EXTRACTION:	MC	FLORISIL:
CLEANUP:	CR	KD:	MC	CH2Cl2
BLOWDOWN:	SA	TV:	GS	Acetone
SURROG. SPIKER:	MC	VERIFIER:	ML	Hexane
MATRIX SPIKER:	MC	VERIFIER:	ML	
SUBMITTED BY:	SA	REVIEWED BY:		09/21

ID NUMBERS

FLORISIL CARTRIDGE #:

GPC COLUMN #: 364134 (09-14-01) #364A

SURROGATES ID CONC #: 5-199-7

MATRIX SPIKE SOLID/CONC #(s): 5-170-7

SOP - METHOD # : SWL-OP- 415 Rev. 1.0

COMMENTS

SB # 0914014
SB # 0914018
Extracts went through sl gel & acid clean-up!

	SV	ST • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

☐ RUSH ☐ REEXTRACT ☐ TCLP ☐ OXIN

SAMPLE EXTRACTION L

BATCH: 010908SD

EXTRACT DATE: 2001-09-08 07:29

003077
Page: 2 of 2

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		
47455.12 GC699	EPA 29684	08/30/2001 08:15 E04P6	S/L	7.80	57.20	12.9	30.23	300	10/5	45	2.0		5.0	5.0	N		1000		
47455.13 GC699	EPA 29684	08/30/2001 08:15 E04P7	S/L	7.58	33.01	20.3	30.27	300	10/5	45	2.0		5.0	5.0	N		1000		
47455.14 GC699	EPA 29684	08/30/2001 08:15 E04P8	S/L	7.57	57.77	12.9	30.47	300	10/5	45	2.0		5.0	5.0	N		1000		
47455.15 GC699	EPA 29684	08/30/2001 08:15 E04P9	S/L	7.60	58.54	12.5	30.18	300	10/5	45	2.0		5.0	5.0	N		1000		
47455.16 GC699	EPA 29684	08/30/2001 08:15 E04Q0	S/L	7.27	59.89	12.3	30.57	300	10/5	45	2.0		5.0	5.0	N		1000		
47455.17 GC699	EPA 29684	08/30/2001 08:15 E04Q1	S/L	7.09	62.41	11.4	30.34	300	10/5	45	2.0		5.0	5.0	N		1000		
47455.18 GC699	EPA 29684	08/30/2001 08:15 E04Q2	S/L	7.63	56.86	13.0	30.06	300	10/5	45	2.0		5.0	5.0	N		1000		
47455.19 GC699	EPA 29684	08/30/2001 08:15 E04Q3	S/L	7.67	33.11	20.5	30.61	300	10/5	45	2.0		5.0	5.0	N		1000		
47455.20 GC699	EPA 29684	08/30/2001 08:15 E04Q4	S/L	7.44	45.12	16.6	30.20	300	10/5	45	2.0		5.0	5.0	N		1000		
47455.21 GC699	EPA 29684	08/30/2001 08:15 E04Q5	S/L	7.47	28.97	21.5	30.32	300	10/5	45	2.0		5.0	5.0	N		1000		
47455.22 GC699	EPA 29684	08/30/2001 08:15 E04Q6	S/L	7.49	61.64	11.7	30.47	300	10/5	45	2.0		5.0	5.0	N		1000		

INITIALS

WEIGHING:	SA	EXTRACTION:	MC	FLORISIL:
CLEANUP:	CR	KD:	MC	CH_2Cl_2
BLOWDOWN:	SA	TV:	GS	Acetone
SURROG. SPIKER:	MC	VERIFIER:	ML	Hexane
MATRIX SPIKER:	MC	VERIFIER:	ML	
SUBMITTED BY:	SA	REVIEWED BY:	09/21	

ID NUMBERS

FLORISIL CARTRIDGE #:

GPC COLUMN #: 364134 (09-14-01) #364041

SURROGATES ID CONC #: 5-199-7

MATRIX SPIKE SOLID/CONC #(s): 5-170-7

SOP - METHOD # : SWL-OP- 415 Rev. 1.0

COMMENTS

SB # 091401A
SB# 091401B
Extractants went through silica gel & acid clean-up.

Page 28 Book 1 Page

Southwest Laboratory of Oklahoma
1700 W. Albany Suite C
Broken Arrow, OK 74012-1421

INTERNAL CHAIN OF CUSTODY

Date	8/30/01
Episode	**47455**
Client	**EPA**
Project	OLM04.2
Received	08/30/01

Test Code	Cont ID	(Circle the Sample Numbers Checked out) #	#	#	#	#	#	#	Date/Time Out	Analyst	Date/Time In
GC699	A	1	2	3	4	5	6	7			
		8	9	10	11	12	13	14			
		15	16	17	18	19	20	21	9-10/0745	M	9-10/1000
		22									
IN660	A	1	2	3	4	5	6	7			
		8	9	10	11	12	13	14			
		15	16	17	18	19	20	21	8-31/1100	M	8-4/1850
		22									

Date	Time	Sample Episode Number(s)	Client	Extr. Chemist Initials	Re-extract? (Y/N)	Comments	No. of Samp.
9/18	3:00	47537.01	SWLO	GA	N	GC560	1
09/19	9:20	47451.01-22 MS,MSD	EPA	SA	N	GC699	22
09/19	9:20	47452.01-22 MS,MSD	EPA	SA	N	GC699	22
09/19	9:20	47454.01-22 MS,MSD	EPA	SA	N	GC699	22
09/19	9:20	47419.02	TETPITT	SA	Y	GC699	X
09/19	9:20	PEST/AROCL CHK	SWLO	SA	N	GC819	X
09/19	9:20	PEST/AROCL CHK	SWLO	SA	N	GC819	X
09/20	7:25	47509.01, 01 dup	RITO	MC	N	GC420	1
9.20	11:20a	47584.01-18, MS MSD	TOLTEST	GS	N	GC200	18
9/20	6:05	47531.01-05	INterlect	GA	N	GC571	5
09/20	8:40	47346.11, 13	EPA	SA	~~N~~ Y	GC699	X
09/20	8:40	47453.01-22, MS,MSD	EPA	SA	N	GC699	22
09/20	8:40	47456.01-19, MS,MSD	EPA	SA	N	GC699	19
09/20	9:20	47537.01	SWLO	SA	N	GC840	1
9/21	1:40p	47589.03, MS MSD.	Forest	GS	N	GC330	1
[illegible]	1:40p	47592.01-21. MS MSD	Incel	GS	N	GC320	21
9/21	[illegible]	47603.01	Toltest	GA	N	GC218	1
09/21	8:05	47455.01-22 MS,MSD	EPA	SA	N	GC699	22
09/21	7:25	47435.05 MS	TETPITT	SA	Y	GC899	X

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
1700 West Albany • Broken Arrow, OK 74012 • Office (918) 251-2858 • Fax (918) 251-2599

This portion can be removed for Recipient's records.

8-29-01 FedEx Tracking Number 821876980351

er's RICK MEHL Phone 847 918-4000

Company ROY F WESTON INC

450 OLD SKOKIE ROAD 8:15

ess

PARK CITY IL 60085

State ZIP Dept/Floor/Suite/Room

Internal Billing Reference 12634 001 001 0067 00

This portion can be removed for Recipient's records.

08-29-01 FedEx Tracking Number 821876980340

er's RICK MEHL Phone 847 918-4000

Company ROY F WESTON INC

450 OLD SKOKIE ROAD 8:15

ess

PARK CITY IL 60085

State ZIP Dept/Floor/Suite/Room

Internal Billing Reference 12634 001 001 0067 00

Original in
29684 EO4BO
SJ 8/31/01

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

Case No: 29684
DAS No:
SDG No: E04M3

L

Date Shipped: 8/29/2001
Carrier Name: FedEx
Airbill: 821876980351
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	8-29-01 1745		8-30-01 8:15
2			
3			
4			

For Lab Use Only

Lab Contract No: 68W99079
Unit Price: 569.00
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 E04M3
E04L8	Sediment/ Joe Ruiz	L/G	PCBs (21)	099339 (Ice Only) (1)	AP-SD004-13-05	S: 8/28/2001 14:25		OK
E04L9	Sediment/ Joe Ruiz	L/G	PCBs (21)	099340 (Ice Only) (1)	AP-SD004-26-01	S: 8/28/2001 14:40		
E04M0	Sediment/ Joe Ruiz	L/G	PCBs (21)	099341 (Ice Only) (1)	AP-SD004-26-02	S: 8/28/2001 14:40		
E04M1	Sediment/ Joe Ruiz	L/G	PCBs (21)	099342 (Ice Only) (1)	AP-SD004-26-03	S: 8/28/2001 14:40		
E04M2	Sediment/ Joe Ruiz	L/G	PCBs (21)	099343 (Ice Only) (1)	AP-SD004-29-01	S: 8/28/2001 13:45		8-30-01
E04M3	Sediment/ Joe Ruiz	L/G	PCBs (21)	099344 (Ice Only) (1)	AP-SD004-29-02	S: 8/28/2001 13:45	ORIGINAL IN SDG # E04K1	
E04M4	Sediment/ Joe Ruiz	L/G	PCBs (21)	099345 (Ice Only) (1)	AP-SD004-29-03	S: 8/28/2001 13:45		
E04M5	Sediment/ Joe Ruiz	L/G	PCBs (21)	099346 (Ice Only) (1)	AP-SD004-29-04	S: 8/28/2001 13:45		
E04P0	Sediment/ Joe Ruiz	L/G	PCBs (21)	099347 (Ice Only) (1)	AP-SD004-34-01	S: 8/28/2001 14:10		
E04P1	Sediment/ Joe Ruiz	L/G	PCBs (21)	099348 (Ice Only) (1)	AP-SD004-34-02	S: 8/28/2001 14:10		

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E04K1, E04M3, E04Q7	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2.3°C T.B	Chain of Custody Seal Number: 177854, 177855
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: 5-490998136-082901-0002

LABORATORY COPY

R provides preliminary results. Requests for preliminary results will increase analytical costs.
end 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:	29684
DAS No:	
SDG No:	E04M3

L

Date Shipped:	8/29/2001
Carrier Name:	FedEx
Airbill:	821876980351
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	8-29-01 1745		8-30-01 8:15
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68W99079
Unit Price:	$69.00
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 E04M3 Sample Condition On Receipt
E04P2	Sediment/ Joe Ruiz	L/G	PCBs (21)	099349 (Ice Only) (1)	AP-SD004-34-03	S:	8/28/2001	14:10		OK
E04P3	Sediment/ Joe Ruiz	L/G	PCBs (21)	099350 (Ice Only) (1)	AP-SD004-34-04	S:	8/28/2001	14:10		
E04P4	Sediment/ Joe Ruiz	L/G	PCBs (21)	099351 (Ice Only) (1)	AP-SD004-34-04DP	S:	8/28/2001	14:10		
E04P5	Sediment/ Joe Ruiz	L/G	PCBs (21)	099352 (Ice Only) (1)	AP-SD004-37-01	S:	8/28/2001	14:35		8-30-01
E04P6	Sediment/ Joe Ruiz	L/G	PCBs (21)	099353 (Ice Only) (1)	AP-SD004-37-02	S:	8/28/2001	14:35		
E04P7	Sediment/ Joe Ruiz	L/G	PCBs (21)	099354 (Ice Only) (1)	AP-SD004-37-03	S:	8/28/2001	14:35		
E04P8	Sediment/ Joe Ruiz	L/G	PCBs (21)	099355 (Ice Only) (1)	AP-SD004-37-04	S:	8/28/2001	14:35		
E04P9	Sediment/ Joe Ruiz	L/G	PCBs (21)	099356 (Ice Only) (1)	AP-SD004-37-04DP	S:	8/28/2001	14:35		
E04Q0	Sediment/ Joe Ruiz	L/G	PCBs (21)	099357 (Ice Only) (1)	AP-SD004-28-01	S:	8/28/2001	14:42		
E04Q1	Sediment/ Joe Ruiz	L/G	PCBs (21)	099358 (Ice Only) (1)	AP-SD004-28-02	S:	8/28/2001	14:42		

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E04K1, E04M3, E04Q7		23°C TLB	177859, 177855

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: 5-490998136-082901-0002

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: 29684
DAS No:
SDG No: E04M3

L

Date Shipped: 8/29/2001
Carrier Name: FedEx
Airbill: 821876980351
Shipped to: Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	8-29-01 1745		5-30-01 8:15
2			
3			
4			

Sampler Signature:

For Lab Use Only
Lab Contract No: 68W990N9
Unit Price: 569.00
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 E04M3
E04Q2	Sediment/ Joe Ruiz	L/G	PCBs (21)	099359 (Ice Only) (1)	AP-SD004-28-03	S:	8/28/2001	14:42		O/C
E04Q3	Sediment/ Joe Ruiz	L/G	PCBs (21)	099360 (Ice Only) (1)	AP-SD004-28-04	S:	8/28/2001	14:42		
E04Q4	Sediment/ Joe Ruiz	L/G	PCBs (21)	099361 (Ice Only) (1)	AP-SD004-35-01	S:	8/28/2001	15:25		
E04Q5	Sediment/ Joe Ruiz	L/G	PCBs (21)	099362 (Ice Only) (1)	AP-SD004-35-02	S:	8/28/2001	15:25		
* E04Q6	Sediment/ Joe Ruiz	L/G	PCBs (21)	099363 (Ice Only) (1)	AP-SD004-35-03	S:	8/28/2001	15:25		8-30-01
E04Q7	Sediment/ Joe Ruiz	L/G	PCBs (21)	099364 (Ice Only) (1)	AP-SD004-35-04	S:	8/28/2001	15:25		
E04Q8	Sediment/ Joe Ruiz	L/G	PCBs (21)	099365 (Ice Only) (1)	AP-SD004-35-05	S:	8/28/2001	15:25		
E04Q9	Sediment/ Joe Ruiz	L/G	PCBs (21)	099366 (Ice Only) (1)	AP-SD004-38-01	S:	8/21/2001	15:50		
E04R0	Sediment/ Joe Ruiz	L/G	PCBs (21)	099367 (Ice Only) (1)	AP-SD004-38-02	S:	8/21/2001	15:50		
E04R1	Sediment/ Joe Ruiz	L/G	PCBs (21)	099368 (Ice Only) (1)	AP-SD004-38-03	S:	8/21/2001	15:50		

* SDG Final Sample

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E04K1, E04M3, E04Q7		2.3°C TB	177854, 177855
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: 5-490998136-082901-0002

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

REVIEWED
BY Matt Jarch
DATE 8/30/01

Date 8/30/01 Page1
Episode **47455**
Client **EPA**
Project OLM04.2
Received 08/30/01
Logged In 08/30/01

TEST	PRI	DUE	CONTAINER	DESCRIPTION	EXTRACTED		ANALYST	ANALYZED
Sample: **47455.01N1**			Sampled:08/28/01	13:45 ID:E04M3		SDG:E04M3	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47455.02MS1**			Sampled:08/28/01	13:45 ID:E04M3MS		SDG:E04M3	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47455.03SD1**			Sampled:08/28/01	13:45 ID:E04M3MSD		SDG:E04M3	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47455.04**			Sampled:08/28/01	13:45 ID:E04M4		SDG:E04M3	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47455.05**			Sampled:08/28/01	13:45 ID:E04M5		SDG:E04M3	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47455.06**			Sampled:08/28/01	14:10 ID:E04P0		SDG:E04M3	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47455.07**			Sampled:08/28/01	14:10 ID:E04P1		SDG:E04M3	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47455.08**			Sampled:08/28/01	14:10 ID:E04P2		SDG:E04M3	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47455.09**			Sampled:08/28/01	14:10 ID:E04P3		SDG:E04M3	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47455.10**			Sampled:08/28/01	14:10 ID:E04P4		SDG:E04M3	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47455.11**			Sampled:08/28/01	14:35 ID:E04P5		SDG:E04M3	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47455.12**			Sampled:08/28/01	14:35 ID:E04P6		SDG:E04M3	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47455.13**			Sampled:08/28/01	14:35 ID:E04P7		SDG:E04M3	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB				
IN660	8	09/03/2001	A	% MOISTURE				
Sample: **47455.14**			Sampled:08/28/01	14:35 ID:E04P8		SDG:E04M3	Matrix: S	Containers:
GC699	4	09/19/2001	A	NON STD PCB				

Southwest Laboratory of Oklahoma
1700 W. Albany Suite C
Broken Arrow, OK 74012-1421

SAMPLE LOG-IN RECORD

Date	8/30/01	Page2
Episode	**47455**	
Client	**EPA**	
Project	OLM04.2	
Received	08/30/01	
Logged In	08/30/01	

TEST	PRI	DUE	CONTAINER	DESCRIPTION	EXTRACTED	ANALYST	ANALYZED
IN660	8	09/03/2001	A	% MOISTURE			
Sample: **47455.15**		Sampled:08/28/01	14:35	ID:E04P9	SDG:E04M3	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB			
IN660	8	09/03/2001	A	% MOISTURE			
Sample: **47455.16**		Sampled:08/28/01	14:42	ID:E04Q0	SDG:E04M3	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB			
IN660	8	09/03/2001	A	% MOISTURE			
Sample: **47455.17**		Sampled:08/28/01	14:42	ID:E04Q1	SDG:E04M3	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB			
IN660	8	09/03/2001	A	% MOISTURE			
Sample: **47455.18**		Sampled:08/28/01	14:42	ID:E04Q2	SDG:E04M3	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB			
IN660	8	09/03/2001	A	% MOISTURE			
Sample: **47455.19**		Sampled:08/28/01	14:42	ID:E04Q3	SDG:E04M3	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB			
IN660	8	09/03/2001	A	% MOISTURE			
Sample: **47455.20**		Sampled:08/28/01	15:25	ID:E04Q4	SDG:E04M3	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB			
IN660	8	09/03/2001	A	% MOISTURE			
Sample: **47455.21**		Sampled:08/28/01	15:25	ID:E04Q5	SDG:E04M3	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB			
IN660	8	09/03/2001	A	% MOISTURE			
Sample: **47455.22**		Sampled:08/28/01	15:25	ID:E04Q6	SDG:E04M3	Matrix: S	Containers: 1
GC699	4	09/19/2001	A	NON STD PCB			
IN660	8	09/03/2001	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 2001-08-30 15:03
Received by (Signature)	
Case Number 29684	Sample Delivery Group No. E04M3 / SAS Number

Remarks: Cooler: 08/30/01-1

1. Custody Seals(s)	Present/ Absent* Intact/ Broken
2. Custody Seal Nos.	N/A
3. Chain-of Custody Records	Present/ Absent*
4. Traffic Reports or Packing Lists	Present/ Absent*
5. Airbill	Airbill/ Sticker Present/ Absent*
6. Airbill No.	821876980351
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	2.3c
10. Does Information on Custody records, traffic reports, and sample tags agree?	Yes/ No*
11. Date Received at Lab	08/30/01
12. Time Received	08:15

Sample Transfer	
Fraction PCB	Fraction
Area # 9	Area #
By JS	By
On 8-30-01	On

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment: etc,
E04M3	099344	47455.01	
E04M3MS	099344	47455.02	
E04M3MSD	099344	47455.03	
E04M4	099345	47455.04	
E04M5	099346	47455.05	
E04P0	099347	47455.06	
E04P1	099348	47455.07	
E04P2	099349	47455.08	
E04P3	099350	47455.09	
E04P4	099351	47455.10	
E04P5	099352	47455.11	
E04P6	099353	47455.12	
E04P7	099354	47455.13	
E04P8	099355	47455.14	
E04P9	099356	47455.15	
E04Q0	099357	47455.16	
E04Q1	099358	47455.17	
E04Q2	099359	47455.18	

* Contact SMO and attach record of resolution.

Reviewed By Matt Gaus	Logbook No.
Date 8-30-01	Logbook Page No. 310

SAMPLE LOG-IN SHEET

Lab Name SOUTHWEST LABORATORY OF OKLAHOMA	Page 2 of 2
Received by (Print Name) JASON SPRIGGS	Log-In Date 2001-08-30 15:03
Received by (Signature)	
Case Number 29684	Sample Delivery Group No. E04M3 / SAS Number

Remarks: Cooler: 08/30/01-1

1. Custody Seals(s)	Present/ Absent* Intact/ Broken
2. Custody Seal Nos.	N/A
3. Chain-of Custody Records	Present/ Absent*
4. Traffic Reports or Packing Lists	Present/ Absent*
5. Airbill	Airbill/ Sticker Present/ Absent*
6. Airbill No.	821876980351
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	2.3c
10. Does Information on Custody records, traffic reports, and sample tags agree?	Yes/ No*
11. Date Received at Lab	08/30/01
12. Time Received	08:15

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment: etc,
E04Q3	099360	47455.19	
E04Q4	099361	47455.20	
E04Q5	099362	47455.21	
E04Q6	099363	47455.22	

Sample Transfer	
Fraction PCB	Fraction
Area # 9	Area #
By JS	By
On 8-30-01	On

* Contact SMO and attach record of resolution.

Reviewed By [signature]	Logbook No. 311
Date 8-30-01	Logbook Page No.

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# 5848

Client	ACCOUNTING OFFICER	Client Code:	EPA
Contact	Heather Bauer	Phone&Fax#:	703-264-9348 703-264-9222
Project	OLM04.2	PO Number:	
Location	29684	Receipt Date	08/30/2001 Due: 09/19/2001
SDG	E04M3 Closed	Sample TAT:	Fax Rpt 21
Reports			
Data Pkgs	CLP: 2		
EDD			

Special Provisions: Must use arochlor 1254 for LCS/LCSD & MS/MSD
need GPCed, silica gel & Acid cleaned, 2.3 C
Case#29684, to date wk 8/27/01: 160 soils , 8 sets QC

Client ID	Type	Matrix	GC699									
E04M3	N1	S	X									
E04M3MS	MS1	S	X									
E04M3MSD	SD1	S	X									
E04M4		S	X									
E04M5		S	X									
E04P0		S	X									
E04P1		S	X									
E04P2		S	X									
E04P3		S	X									
E04P4		S	X									
E04P5		S	X									
E04P6		S	X									
E04P7		S	X									
E04P8		S	X									
E04P9		S	X									
E04Q0		S	X									
E04Q1		S	X									
E04Q2		S	X									
E04Q3		S	X									
E04Q4		S	X									

Reporting Address: ACCOUNTING OFFICER
Attn:;FINANCIAL MANAGEMENT DIVISION,ACCOUNTING OFFICE MD-32,RESEARCH TRIANGLE P

Billing Address: Same As Reporting Address

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Project Officer: HARRY M. BORG

Prepared 08/30/2001

SOUTHWEST LABORATORY OF OKLAHOMA

ANALYTICAL REQUEST FORM, SWL-GA-131

Ref# 5848

Pg 2 of 2

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Case#29684, to date wk 8/27/01: 160 soils , 8 sets QC

Client ID	Type	Matrix	GC699									
E04Q5		S	X									
E04Q6		S	X									

Reporting Address: ACCOUNTING OFFICER
Attn:;FINANCIAL MANAGEMENT DIVISION,ACCOUNTING OFFICE MD-32,RESEARCH TRIANGLE P

Billing Address: Same As Reporting Address

318

Project Officer: HARRY M. BORG

Prepared 08/30/2001