Data Review
Site Name: Allied Paper (MI)
Case Number: 29294 Laboratory: Southwest Laboratory
SDG: E30C0

Thursday, June 28, 2001

US EPA RECORDS CENTER REGION 5
560022

PCBs

Samples:

Sample No	Station Location	Matrix	Date Collected	Date Extracted	Date Analyzed
E30C0	AP-SD009-03	Soil	05/30/01	06//01/01	06/10/01
E30C1	AP-SL033-04	Soil	05/23/01	06//01/01	06/10/01
E30C2	AP-SL033-05	Soil	05/23/01	06//01/01	06/10/01
E30C3	AP-SD008-01	Soil	05/30/01	06//01/01	06/07/01
E30C4	AP-SD008-02	Soil	05/30/01	06//01/01	06/10/01
E30C5	AP-SD008-03	Soil	05/30/01	06//01/01	06/10/01
E30C6	AP-SD008-03DP	Soil	05/30/01	06//01/01	06/10/01
E30C7	AP-SD008-04	Soil	05/30/01	06//01/01	06/10/01
E30D3	AP-SL032-01	Soil	05/31/01	06//01/01	06/08/01
E30D4	AP-SL032-02	Soil	05/31/01	06//01/01	06/08/01
E30D5	AP-SL032-03	Soil	05/31/01	06//01/01	06/08/01
E30D6	AP-SL032-04	Soil	05/31/01	06//01/01	06/08/01
E30D7	AP-SL022-01	Soil	05/31/01	06//01/01	06/08/01
E30D8	AP-SL022-02	Soil	05/31/01	06//01/01	06/08/01
E30D9	AP-SL022-03	Soil	05/31/01	06//01/01	06/08/01
E30E0	AP-SL022-04	Soil	05/31/01	06//01/01	06/08/01
E30E1	AP-SL012-01	Soil	05/31/01	06//01/01	06/08/01
E30E2	AP-SL012-02	Soil	05/31/01	06//01/01	06/08/01
E30E3	AP-SL012-03	Soil	05/31/01	06//01/01	06/10/01
E30E4	AP-SD001-01	Soil	05/31/01	06//01/01	06/10/01

Holding Time:
All samples were extracted and analyzed within the required holding time.

Method Blank:
Two method blanks were associated with SDG. PBLKSE was analyzed on 06/07/01 with samples (E30C3, E30D3 thru E30D9, E30E0, E30E1, E30E2, E30D7DL, and E30E1DL). PBLKSS was analyzed on 06/10/01 with samples (E30C0, MS/MSD, E30C1, E30C2, E30C4 thru E30C7, E30E3, and E30E4). The PBLKSE and PBLKSS results were free of contamination. All samples underwent OLMO4.2 cleanup, Silica Gel Cleanup, and sulfuric acid cleanup prior analysis. All instrument blanks associated with this sample set were free of contamination.

Surrogate Recovery:
All method blanks and investigated samples had surrogate recoveries within the acceptance quality control limits (30 to 170%), except for sample E30E4 (DCB1 235%, DCB2 246%), and E30D7DL (DCB2 221%). Therefore, qualify the results as estimated (J) in the detected compounds for E30E4 and E30D7DL. The laboratory is re-extracting, and re-analyzing sample E30E4.

Data Review Thursday, June 28, 2001
Site Name: Allied Paper (MI)
Case Number: 29294 Laboratory: Southwest Laboratory
SDG: E30C0

Matrix Spike/ Matrix Spike Duplicate Recovery:

The matrix spike/ matrix spike duplicate audit was performed on sample E30C0. The matrix spike/matrix spike duplicate, and the relative percent difference (RPD %) recoveries were within the quality control limits (29 to 135%).

Laboratory Control Sample Recovery:

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 aroclor initial calibration recoveries were all within the quality control limit, except in aroclor 1242 initial calibration (GC column: DB-1701 for L3 was 24.1%) analyzed on 06/09/01`was outside the acceptable RPD 20%, limit. No action was applied, because there were no samples associated with initial calibration file.

The multi-component calibration verification average recoveries were within the acceptance limit, except in aroclor 1016 (15.5%) in GC column DB-17, in aroclor 1016 (16.7%), aroclor 1260 (17.9%) in (GC column DB-1701) were analyzed on 06/07/01 at 1545 in both columns. Aroclor 1016 #4 (19.3%) in (GC column DB-17) was analyzed on 06/10/01 at 0547, 0611. Also, in aroclor 1016 (16.4), aroclor 1260 (16.2%), were analyzed on 06/10/01 at 1132 in both columns. analyzed 06/10/01 at 1108, 1157 in both columns and outside the acceptable RPD 15% limit. None of the samples were affected by the continuing calibration difficulties.

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: 06/28/01

D67-4A - AAK2

DATE: June 20, 2001

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

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

Attn: Tonya Balla

SITE NAME: ALLIED PAPER

CASE NO.	LAB	NO # OF SAMPLES	SDG	MATRIX
29294	SOUTHWEST	20	E30C0	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

JB 7/11/07

JUN 2 0 2001

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 6-19-01

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

TO: Data User: Weston

We have reviewed the data for the following case:

SITE NAME: Allied Paper (MI)

CASE NUMBER: 29294 SDG NUMBER: E30C0

Number and Type of Samples: 20 (Soil)

Sample Numbers: E30C0-7, E30D3-9, E30E0-4

Laboratory: Southwest Hrs for Review:

Following are our findings:

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

JUN 1 9 2001

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME SOUTHWEST LABORATORY OF OKLAHOMA
CITY/STATE BROKEN ARROW, OKLAHOMA
CASE NO. 29294 SDG NO. E3OCO SDG NOS. TO FOLLOW
SAS NO.
CONTRACT NO. 68 W 99 079
SOW NO. OLM04.2

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

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
1. Inventory Sheet (Form DC-2) (Do not Number)				
2. SDG Case Narrative	1	2		
3. SDG Cover Sheet/Traffic Report	3	6		
4. Volatiles Data				
a. QC Summary				
System Monitoring Compound Summary (Form II	NA	NA		
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)				
Method Blank Summary (Form IV VOA)				
GC/MS Instrument Performance Check (Form V VOA)				
Internal Standard Area and RT Summary (Form VIII VOA)				
b. Sample Data				
TCL Results - (Form I VOA-1, VOA-2)				
Tentatively Identified Compounds (Form I VOA-				
Reconstructed total ion chromatograms (RIC) for each sample				
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified				
Quantitation reports				
Mass Spectra of all reported TICs with three best library matches				
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI VOA-1, VOA-2)				
RICs and Quan Reports for all Standards				
Continuing Calibration Data (Form VII VOA-1, VOA-2)				
RICs and Quantitation Reports for all Standards				
d. Raw QC Data				
BFB				
Blank Data				
Martix Spike/Matrix Spike Duplicate Data				

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

CASE NO. 29294 SDG NO. C3000 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
5. **Semivolatiles Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II SV)	NA	NA	✓	
MS/MSD Summary (Form III SV)				
Method Blank Summary (Form IV SV)				
GC/MS Instrument Performance Check (Form V SV)				
Internal Standard Area and RT Summary (Form VIII SV)				
b. Sample Data				
TCL Results - (Form I SV-1, SV-2)				
Tentatively Identified Compounds (Form I SV-				
Reconstructed total ion chromatograms (RIC) for each sample				
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds				
Quantitation reports				
Mass Spectra of TICs with three best library matches				
GPC chromatograms (if GPC is required)				
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI SV-1, SV-2)				
RICs and Quan Reports for all Standards				
Continuing Calibration Data (Form VII SV-1, SV-				
RICs and Quantitation Reports for all Standards				
d. Raw QC Data				
DFTPP				
Blank Data				
Matrix Spike/Matrix Spike Duplicate Data				
e. Raw GPC Data	✓	✓		
6. **Pesticides Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II	7	7		
MS/MSD Duplicate Summary (Form III PEST)	8	9		
Method Blank Summary (Form IV PEST)	10	11	✓	

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

CASE NO. 29294 SDG NO. E3000 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. **Pesticides Data** (Cont.)				
b. Sample Data	12	103		
TCL Results - Organic Analysis Data Sheet (Form I PEST)			SA	
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	104	280		
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	281	318	✓	
Matrix Spke/Matrix Spike Duplicate Data	319	330		

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

CASE NO. 29294 SDG NO. C3000 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. **Pesticides Data** (Cont.)				
e. Raw GPC Data	331	375	✓	
f. Raw Florisil Data	NA	NA		
7. **Miscellaneous Data**				
Original preparation and analysis forms or of preparation and analysis logbook pages	376	384		
Internal sample and sample extract transfer chain-of-custody records	385	389		
Screening records	NA	NA		
All instrument output, including strip charts from screening activities (describe or list)				
8. **EPA Shipping/Receiving Documents**				
Airbills (No. of shipments 1)	390	390		
Chain-of-Custody Records	391	393		
Sample Tags	394 ~~392~~	413		
Sample Log-in Sheet (Lab & DC1)	414	417		
Miscellaneous Shipping/Receiving Records (describe or list)				
Instructions, Analytical Request Forms	418	422		
	NA	NA		
9. **Internal Lab Sample Transfer Records and Tracking Sheets** (describe or list)				
10. **Other Records** (describe or list)				
Telephone Communication Log				

ST 4/12/01

11. **Comments:** _____

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

CASE NO. 29294 SDG NO. C3OCO SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	(Signature)	(Printed Name/Title)	(Date)
Completed by: (CLP Lab)	Tonia Holt	Tonia Holt/data Clerk	6/12/01
Verified by: (CLP Lab)	Sandra Jackets	Sandra Jackets/Data Clerk	6/12/01
Audited by: (EPA)			

JUN 1 9 2001

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

SDG NARRATIVE

June 12, 2001

CONTRACT:	68W99079
CASE NO:	29294
SDG NO:	E30C0
SAMPLES:	E30C0, E30C0MS, E30C0MSD, E30C1, E30C2, E30C3, E30C4, E30C5, E30C6, E30C7, E30D3, E30D4, E30D5, E30D6, E30D7, E30D7DL, E30D8, E30D9, E30E0, E30E1, E30E1DL, E30E2, E30E3 and E30E4.
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 (agilent technologies) dual analytical columns, DB17, length 30m, id 0.32 mm, film thickness 0.25 um) and DB1701, 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 was used as the carrier gas for all sample analyses.

The following samples in this SDG labeled with a DL are considered billable since these samples had dilutions analyzed to get target compounds within instruments linear range: E30D7DL and E30E1DL.

The sample cooler arrived at 6.1 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. Several of the samples required an additional sulfur cleanup step.

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

Surrogates: All surrogates were within QC limits with the exception of sample E30E4, which had high DCB recovery on both columns. This sample is being re-extracted and will be sent in a separated data package as agreed upon by region.

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

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

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.

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

Case No:	29294
DAS No:	2001ZG07
SDG No:	E30C0

L

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

Chain of Custody Record

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

Sampler Signature:

For Lab Use Only

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

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY E30C0 Sample Condition On Receipt
E30B8	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050178 (Ice Only) (1)	AP-SD009-01	S: 5/30/01 15:34		
E30B9	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050180 (Ice Only) (1)	AP-SD009-02	S: 5/30/01 15:34		
E30C0	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050181 (Ice Only) (1)	AP-SD009-03	S: 5/30/01 15:34		
E30C1	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050182 (Ice Only) (1)	AP-SL033-04	S: 5/23/01 17:25		
E30C2	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050184 (Ice Only) (1)	AP-SL033-05	S: 5/23/01 17:25		
E30C3	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050185 (Ice Only) (1)	AP-SD008-01	S: 5/30/01 16:58		
E30C4	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050186 (Ice Only) (1)	AP-SD008-02	S: 5/30/01 16:58		
E30C5	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050187 (Ice Only) (1)	AP-SD008-03	S: 5/30/01 16:58		
E30C6	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050189 (Ice Only) (1)	AP-SD008-03DP	S: 5/30/01 16:58		
E30C7	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050191 (Ice Only) (1)	AP-SD008-04	S: 5/30/01 16:58		

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN CSF 29294 SDG E3099

Signature [illegible]

Date 6/4/01

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E30C0, E30E6	Additional Sampler Signature(s): [illegible]	Cooler Temperature Upon Receipt: 6.1 T.B	Chain of Custody Seal Number: 80799 80800
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

TR Number: 5-201142833-053101-0001

LABORATORY COPY

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

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

Case No:	29294
DAS No:	2001ZG07
SDG No:	E30C0

L

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

Chain of Custody Record

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

Sampler Signature:

For Lab Use Only

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

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME			INORGANIC SAMPLE No.	FOR LAB USE ONLY E30C0 Sample Condition On Receipt
E30D3	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050199 (Ice Only) (1)	AP-SL032-01	S:	5/31/01	9:23		
E30D4	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050200 (Ice Only) (1)	AP-SL032-02	S:	5/31/01	9:23		
E30D5	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050201 (Ice Only) (1)	AP-SL032-03	S:	5/31/01	9:23		
E30D6	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050202 (Ice Only) (1)	AP-SL032-04	S:	5/31/01	9:23		
E30D7	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050203 (Ice Only) (1)	AP-SL022-01	S:	5/31/01	11:25		
E30D8	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050205 (Ice Only) (1)	AP-SL022-02	S:	5/31/01	11:25		
E30D9	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050207 (Ice Only) (1)	AP-SL022-03	S:	5/31/01	11:25		
E30E0	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050209 (Ice Only) (1)	AP-SL022-04	S:	5/31/01	11:25		
E30E1	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050210 (Ice Only) (1)	AP-SL012-01	S:	5/31/01	12:13		
E30E2	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050212 (Ice Only) (1)	AP-SL012-02	S:	5/31/01	12:13		

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E30C0, E30E6	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 6.1 IB	Chain of Custody Seal Number: 80799, 80800
Analysis Key: PCBs = PCBs CJ	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact?__	Shipment Iced?__

TR Number: 5-201142833-053101-0001

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

Case No:	29294
DAS No:	2001ZG07
SDG No:	E30C0

L

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

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Tonya Ballu	5/31/01 1745	[signature]	6-7-01 11:15
2			
3			
4			

Sampler Signature:

For Lab Use Only

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

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt E30C0
E30E3	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050213 (Ice Only) (1)	AP-SL012-03	S: 5/31/01 12:13		
* E30E4	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050215 (Ice Only) (1)	AP-SD001-01	S: 5/31/01 14:45		
E30E5	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050218 (Ice Only) (1)	AP-SD001-02	S: 5/31/01 14:45		
E30E6	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050221 (Ice Only) (1)	AP-SD001-03	S: 5/31/01 14:45		
E30E7	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050223 (Ice Only) (1)	AP-SD001-04	S: 5/31/01 14:45		
E30E8	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050225 (Ice Only) (1)	AP-SD001-04DP	S: 5/31/01 14:45		
E30E9	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050226 (Ice Only) (1)	AP-SD001-05	S: 5/31/01 14:45		
E30F0	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050228 (Ice Only) (1)	AP-SD001-06	S: 5/31/01 14:45		
E30F1	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050230 (Ice Only) (1)	AP-SD003-01	S: 5/31/01 15:25		
E30F2	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050232 (Ice Only) (1)	AP-SD003-02	S: 5/31/01 15:25		

* SDG Final Sample

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E30C0, E30E6	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 6.1 F.B.	Chain of Custody Seal Number: 80799, 80800
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

TR Number: 5-201142833-053101-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
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2F
SOIL AROCLOR SURROGATE RECOVERY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

GC Column(1): DB-17 ID: 0.32(mm) GC Column(2): DB-1701 ID: 0.32(mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	TOT OUT
01	PBLKSE	72	70	93	95	0
02	PBLKSS	96	99	124	126	0
03	ELCS1	107	102	133	133	0
04	ELCS2	97	96	120	119	0
05	E30C3	69	79	94	93	0
06	E30D3	90	99	116	135	0
07	E30D4	87	96	93	104	0
08	E30D5	72	77	80	83	0
09	E30D6	98	102	95	102	0
10	E30D7	57	59	64	78	0
11	E30D8	90	91	98	104	0
12	E30D9	87	88	98	103	0
13	E30E0	75	72	80	84	0
14	E30E1	74	87	115	129	0
15	E30E2	70	68	75	82	0
16	E30C0	83	92	102	108	0
17	E30C0MS	86	97	116	118	0
18	E30C0MSD	82	93	119	121	0
19	E30C1	67	79	91	98	0
20	E30C2	62	73	89	97	0
21	E30C4	71	84	97	100	0
22	E30C5	74	84	99	108	0
23	E30C6	76	86	104	116	0
24	E30C7	66	73	82	88	0
25	E30E3	64	70	106	115	0
26	E30E4	62	85	235*	246*	2
27	E30D7DL	54	56	119	95	0
28	E30E1DL	76	99	168	221D	0
29						
30						

QC LIMITS

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

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

3H

SOIL AROCLOR LABORATORY CONTROL SPIKE/ DUPLICATE RECOVERY

Lab Name: SWL-TULSA Case No.: 29294 SDG No.: E30C0

LCS Sample NO.: ELCS1

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aroclor-1254	133	140	105	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	133	133	100	5	50	29-135

Column to be used to flag recovery values

* Values outside of QC limits

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

Comments: _____

3F

SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix Spike - Client Sample NO.: E30C0

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aroclor-1254	214	0	182	85	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	213	197	92	8	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

4C

AROCLOR METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLKSE

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Lab Sample ID: BL0601SE Lab File ID: 3_060657

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

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

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

Time Analyzed (1): 1724 Time Analyzed (2): 1724

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

GC Column (1): DB-17 ID: 0.32(mm) GC Column (2): DB-1701 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	LC0601SE	06/07/01	06/07/01
02	ELCS2	LD0601SE	06/07/01	06/07/01
03	E30C3	46663.08	06/07/01	06/07/01
04	E30D3	46663.13	06/08/01	06/08/01
05	E30D4	46663.14	06/08/01	06/08/01
06	E30D5	46663.15	06/08/01	06/08/01
07	E30D6	46663.16	06/08/01	06/08/01
08	E30D7	46663.17	06/08/01	06/08/01
09	E30D8	46663.18	06/08/01	06/08/01
10	E30D9	46663.19	06/08/01	06/08/01
11	E30E0	46663.20	06/08/01	06/08/01
12	E30E1	46663.21	06/08/01	06/08/01
13	E30E2	46663.22	06/08/01	06/08/01
14	E30D7DL	46663.17DL	06/10/01	06/10/01
15	E30E1DL	46663.21DL	06/10/01	06/10/01
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

Comments:

4C

AROCLOR METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLKSS

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Lab Sample ID: BB0601SS Lab File ID: 3_060932

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

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

Date Analyzed (1): 06/10/01 Date Analyzed (2): 06/10/01

Time Analyzed (1): 0115 Time Analyzed (2): 0115

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

GC Column (1): DB-17 ID: 0.32(mm) GC Column (2): DB-1701 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	E30C0	46663.03	06/10/01	06/10/01
02	E30C0MS	46663.04MS	06/10/01	06/10/01
03	E30C0MSD	46663.05MSD	06/10/01	06/10/01
04	E30C1	46663.06	06/10/01	06/10/01
05	E30C2	46663.07	06/10/01	06/10/01
06	E30C4	46663.09	06/10/01	06/10/01
07	E30C5	46663.10	06/10/01	06/10/01
08	E30C6	46663.11	06/10/01	06/10/01
09	E30C7	46663.12	06/10/01	06/10/01
10	E30E3	46663.23	06/10/01	06/10/01
11	E30E4	46663.24	06/10/01	06/10/01
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

Comments:

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30C0

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.03

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

% Moisture: 38 decanted: (Y/N) __ Date Received: 06/01/01

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

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/10/01

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	53	U
11104-28-2	Aroclor-1221	53	U
11141-16-5	Aroclor-1232	53	U
53469-21-9	Aroclor-1242	53	U
12672-29-6	Aroclor-1248	53	U
11097-69-1	Aroclor-1254	53	U
11096-82-5	Aroclor-1260	53	U
	Surrogate amount spiked	10.69	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060933.D\ECD1A.CH Vial: 33
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060933.D\ECD2B.CH
Acq On : 10 Jun 2001 1:40 Operator: DDC
Sample : 46663.03 *E30C0 * Inst : HP_03
Misc : *EPA*30.2G/5.0ML*38 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:25 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	425240	181413	8.843	9.862
	Spiked Amount 10.681			Recovery	=	82.79%	92.33%
22)	S DCB	17.11	18.41	472841	256340	10.8	11.6
	Spiked Amount 10.681			Recovery	=	101.11%	108.60%

Target Compounds:

13

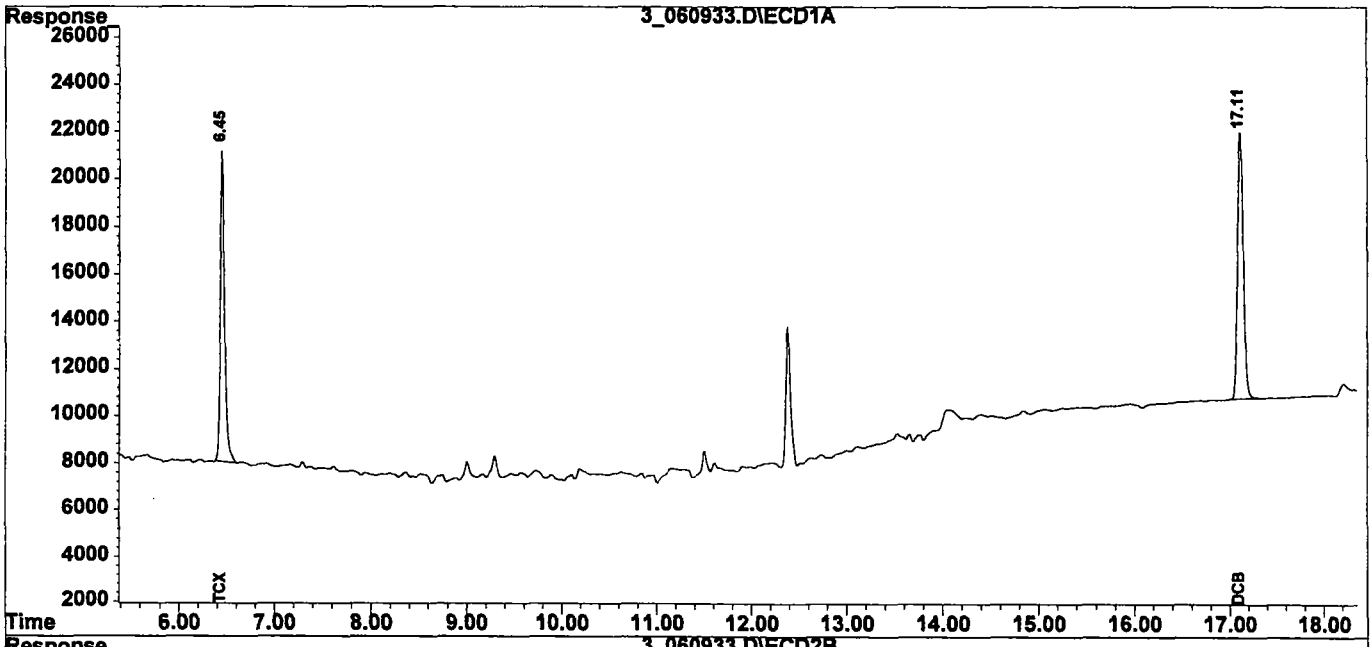
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

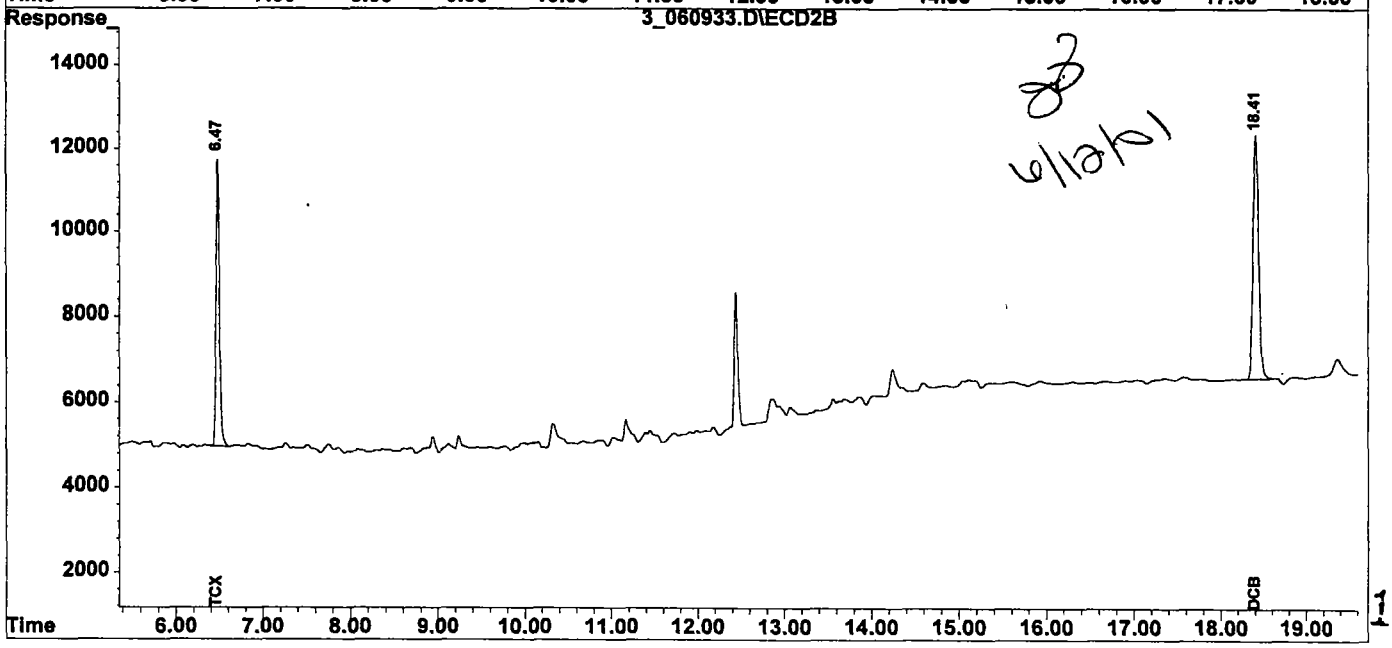
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060933.D\ECD1A.CH Vial: 33
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060933.D\ECD2B.CH
Acq On : 10 Jun 2001 1:40 Operator: DDC
Sample : 46663.03 *E30C0 * Inst : HP_03
Misc : *EPA*30.2G/5.0ML*38 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:25 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

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1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30C1

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.06

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

% Moisture: 58 decanted: (Y/N) __ Date Received: 06/01/01

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

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/10/01

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	78	U
11104-28-2	Aroclor-1221	78	U
11141-16-5	Aroclor-1232	78	U
53469-21-9	Aroclor-1242	440	
12672-29-6	Aroclor-1248	78	U
11097-69-1	Aroclor-1254	210	
11096-82-5	Aroclor-1260	63	JP
Surrogate amount spiked		15.71	

TBS 6/28/01 TB 7/11/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060936.D\ECD1A.CH Vial: 36
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060936.D\ECD2B.CH
Acq On : 10 Jun 2001 2:54 Operator: DDC
Sample : 46663.06 *E30C1 * Inst : HP_03
Misc : *EPA*30.3G/5.0ML*58 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:28 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.44	6.47	342907	155385	10.5	12.4	
	Spiked Amount 15.716			Recovery	=	66.81%	78.90%	
22)	S DCB	17.13	18.43	422620	233399	14.3	15.5	
	Spiked Amount 15.716			Recovery	=	90.99%	98.63%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.74	7.76f	279305	129261	448.1	692.5	#
8)	L4 Aroclor-1242 {2}	0.00	9.12f	0	82361	N.D.	380.4	#
9)	L4 Aroclor-1242 {3}	9.56	9.70	197646	46828	251.3	233.8	
10)	L4 Aroclor-1242 {4}	10.16f	0.00	925700	0	941.4	N.D. d	#
	Sum Aroclor-1242			1402650	258451	1640.8	1306.7	
	Average Aroclor-1242					546.932	435.561	
13)	L6 Aroclor-1254 {2}	11.58	11.40	171747	136070	312.4	315.6	
14)	L6 Aroclor-1254 {3}	0.00	11.99	0	59608	N.D. d	149.7	#
15)	L6 Aroclor-1254 {4}	12.73	12.18	112275	220083	241.0	213.7	
16)	L6 Aroclor-1254 {5}	13.10	12.61	351450	114449	184.2	177.9	
	Sum Aroclor-1254			635472	530210	737.6	856.9	
	Average Aroclor-1254					245.861	214.234	
17)	L7 Aroclor-1260	12.15	0.00	264921	0	162.3	N.D. d	#
18)	L7 Aroclor-1260 {2}	12.52	12.61	227429	114449	142.1	120.6	
19)	L7 Aroclor-1260 {3}	0.00	13.41	0	39115	N.D.	28.1	#
20)	L7 Aroclor-1260 {4}	13.66	14.04	186467	18772	213.8	31.2	#
21)	L7 Aroclor-1260 {5}	14.13	14.28	163793	101990	79.9	71.5	
	Sum Aroclor-1260			842609	274326	470.0	197.6	
	Average Aroclor-1260					149.533	62.855	

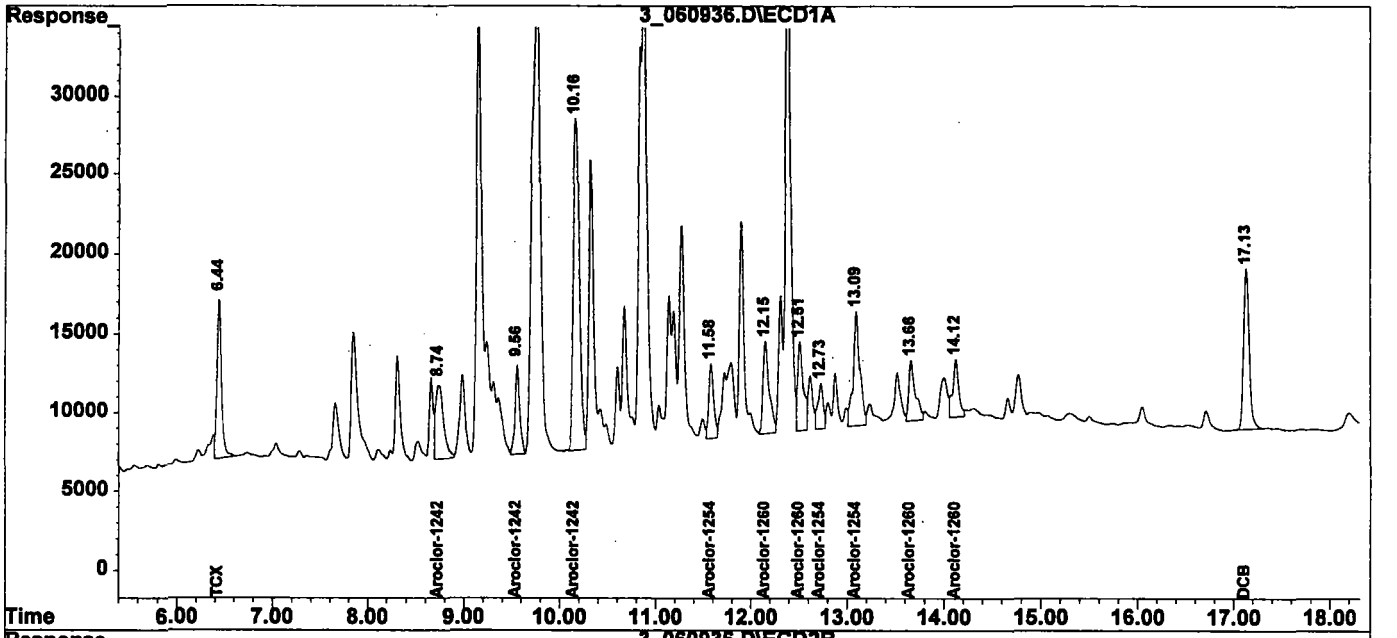
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

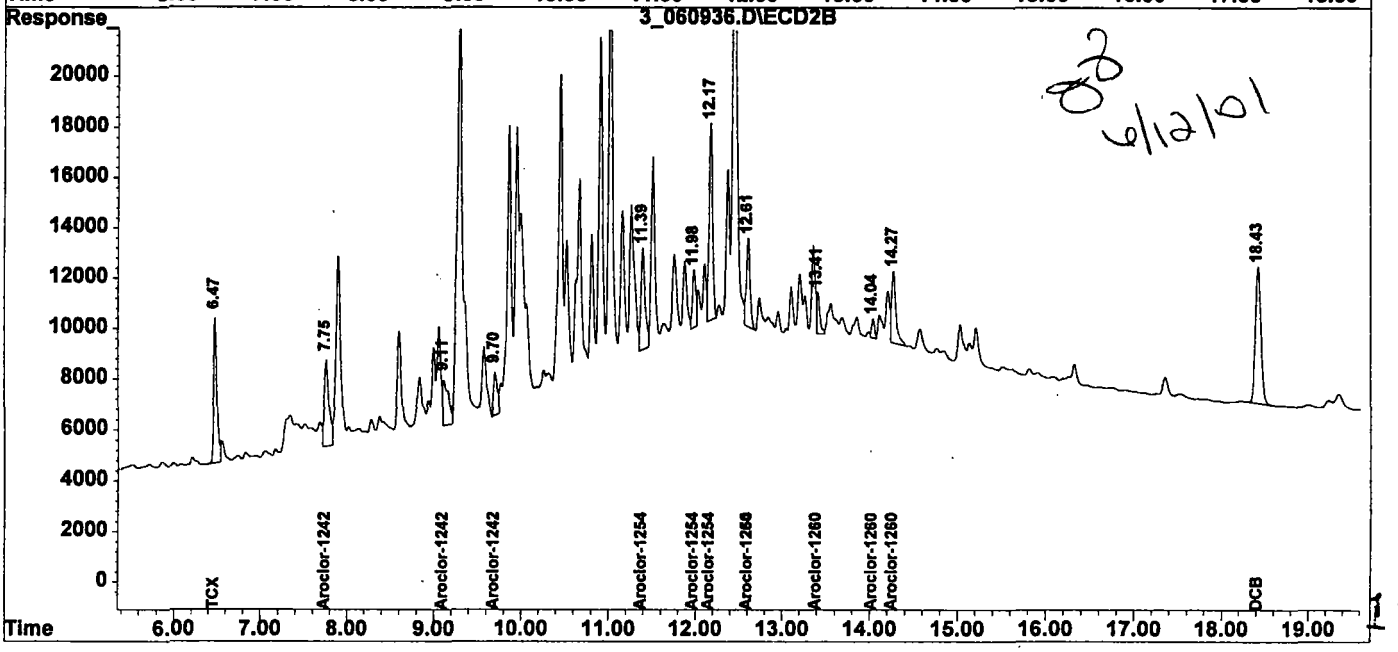
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060936.D\ECD1A.CH Vial: 36
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060936.D\ECD2B.CH
Acq On : 10 Jun 2001 2:54 Operator: DDC
Sample : 46663.06 *E30C1 * Inst : HP_03
Misc : *EPA*30.3G/5.0ML*58 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:28 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

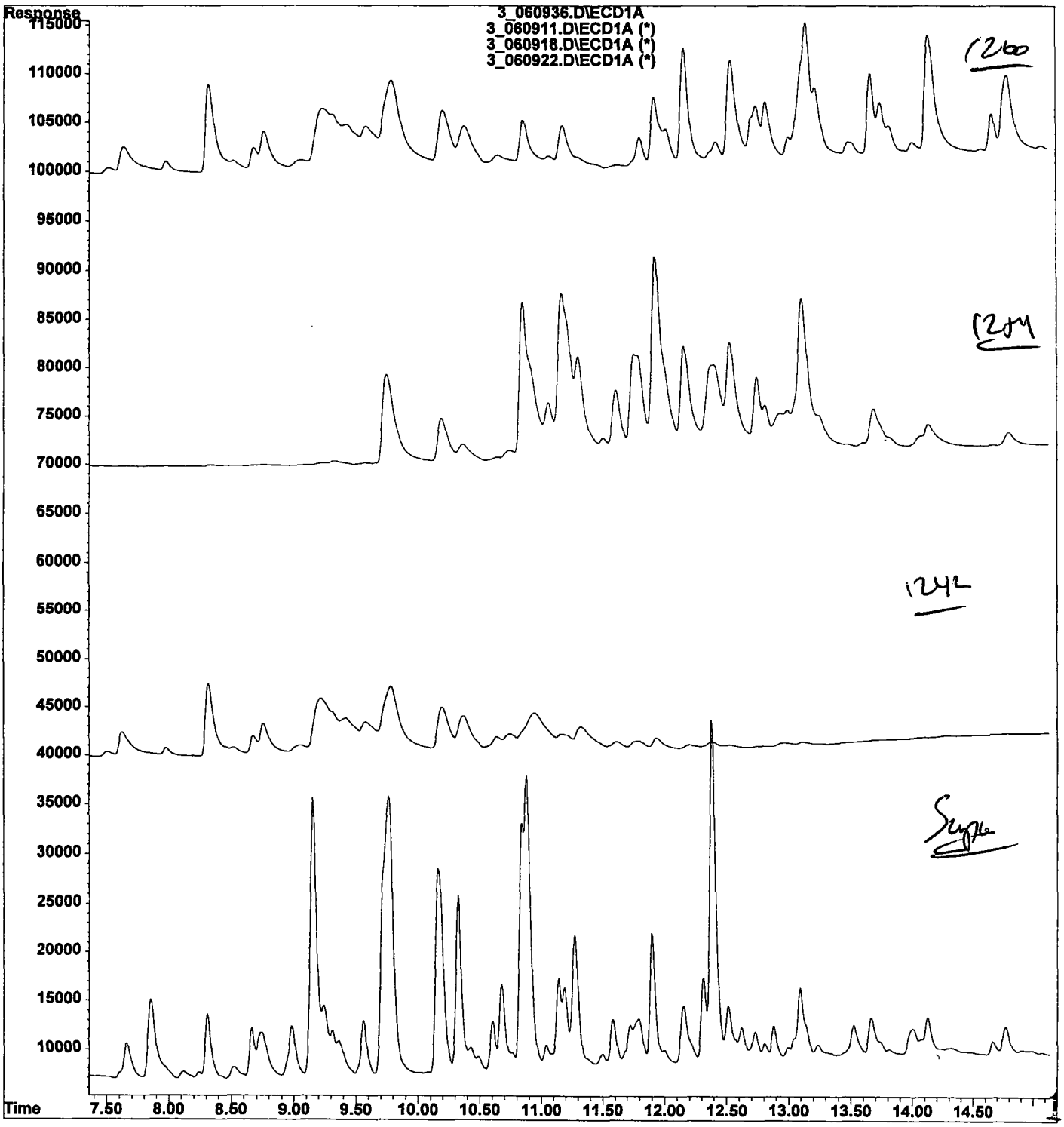




6/12/01

17

File : F:\HPCHEM\HP\3\DATA\06_09_01\3_060936.D
Operator : DDC
Acquired : 10 Jun 2001 2:54 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 46663.06 *E30C1 *
Misc Info : *EPA*30.3G/5.0ML*58
Vial Number: 36



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30C2

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.07

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

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

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

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/10/01

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	86	U ~~J~~
11104-28-2	Aroclor-1221	86	U ~~J~~
11141-16-5	Aroclor-1232	86	U ~~J~~
53469-21-9	Aroclor-1242	290	~~P~~ ~~J~~
12672-29-6	Aroclor-1248	86	U ~~J~~
11097-69-1	Aroclor-1254	240	~~P~~ ~~J~~
11096-82-5	Aroclor-1260	76	~~JP~~ ~~J~~
			N
Surrogate amount spiked		17.31	

TBS 6/22/01 TB 7/11/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060937.D\ECD1A.CH Vial: 37
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060937.D\ECD2B.CH
Acq On : 10 Jun 2001 3:19 Operator: DDC
Sample : 46663.07 *E30C2 * 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: Jun 10 9:29 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.48	321167	142684	10.8	12.6	
	Spiked Amount 17.313			Recovery	=	62.38%	72.78%	
22)	S DCB	17.13	18.43	414064	231058	15.4	16.9	
	Spiked Amount 17.313			Recovery	=	88.95%	97.61%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.73	7.76f	123360	48798	218.0	288.0	#
8)	L4 Aroclor-1242 {2}	0.00	9.12f	0	70934	N.D.	360.9	#
9)	L4 Aroclor-1242 {3}	9.56	9.70	159388	40944	223.2	225.2	
10)	L4 Aroclor-1242 {4}	10.16f	0.00	883041	0	989.3	N.D. d	#
	Sum Aroclor-1242			1165789	160676	1430.6	874.1	
	Average Aroclor-1242					476.856	291.372	
13)	L6 Aroclor-1254 {2}	11.58	11.40	176637	125255	353.9	320.1	
14)	L6 Aroclor-1254 {3}	12.39	11.99	864902	73843	853.3	204.2	#
15)	L6 Aroclor-1254 {4}	12.73	12.18	109096	222042	258.0	237.6	
16)	L6 Aroclor-1254 {5}	13.10	12.61	333124	121478	192.3	208.0	
	Sum Aroclor-1254			1483758	542618	1657.5	969.9	
	Average Aroclor-1254					414.377	242.473	
17)	L7 Aroclor-1260	12.15	0.00	270677	0	182.7	N.D. d	#
18)	L7 Aroclor-1260 {2}	12.52	12.61	213283	121478	146.8	141.0	
20)	L7 Aroclor-1260 {4}	13.67	14.04	191420	12862	241.8	23.6	#
21)	L7 Aroclor-1260 {5}	14.13	14.28	129878	80721	69.8	62.4	
	Sum Aroclor-1260			805258	215061	555.0	196.5	
	Average Aroclor-1260					160.275	75.649	

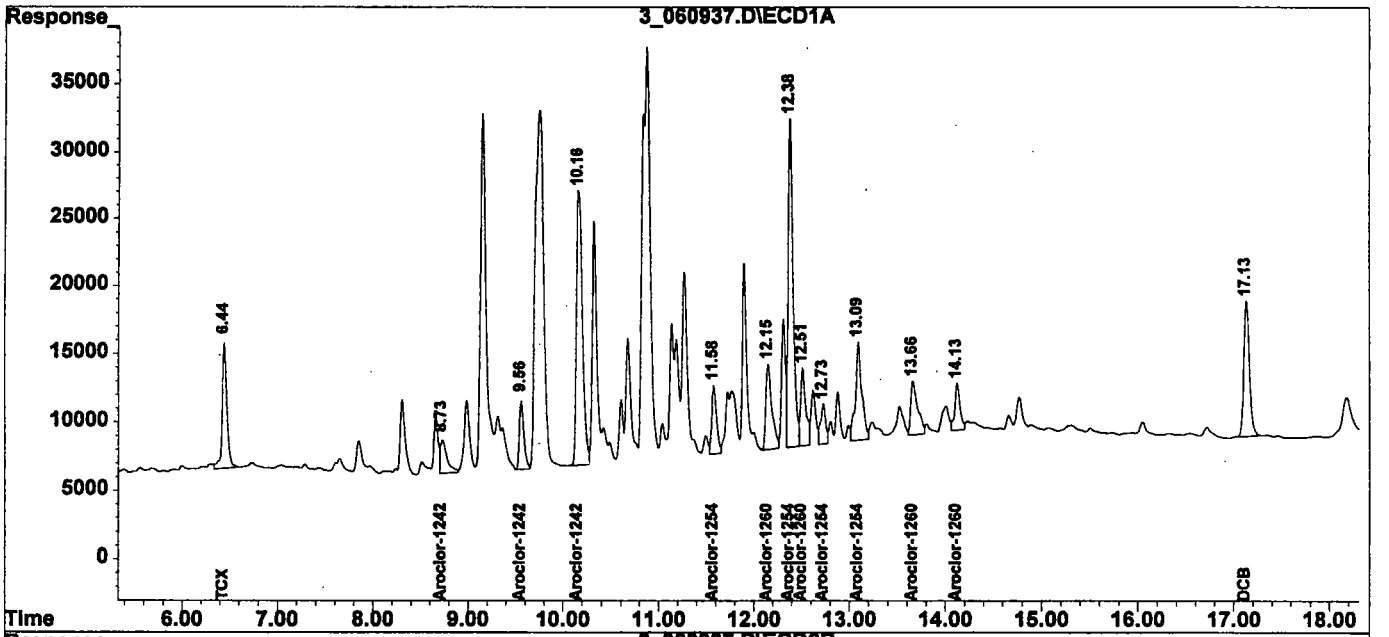
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

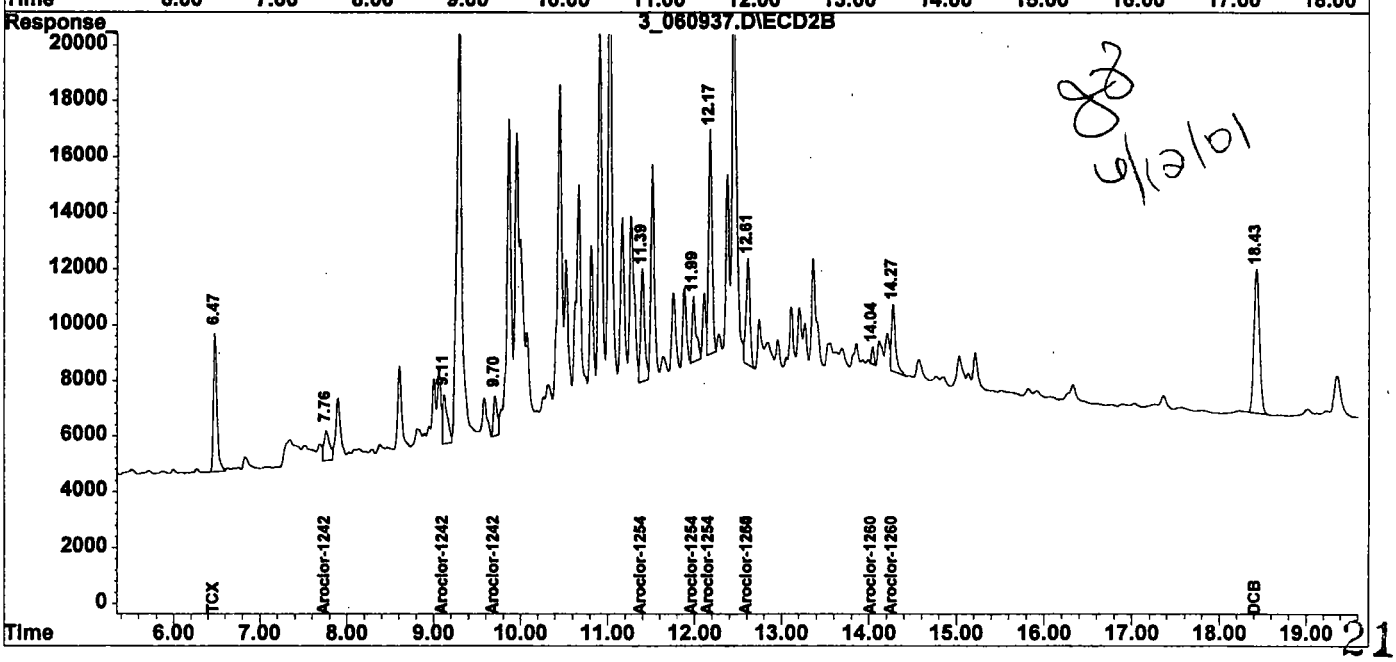
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060937.D\ECD1A.CH Vial: 37
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060937.D\ECD2B.CH
Acq On : 10 Jun 2001 3:19 Operator: DDC
Sample : 46663.07 *E30C2 * 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: Jun 10 9:29 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

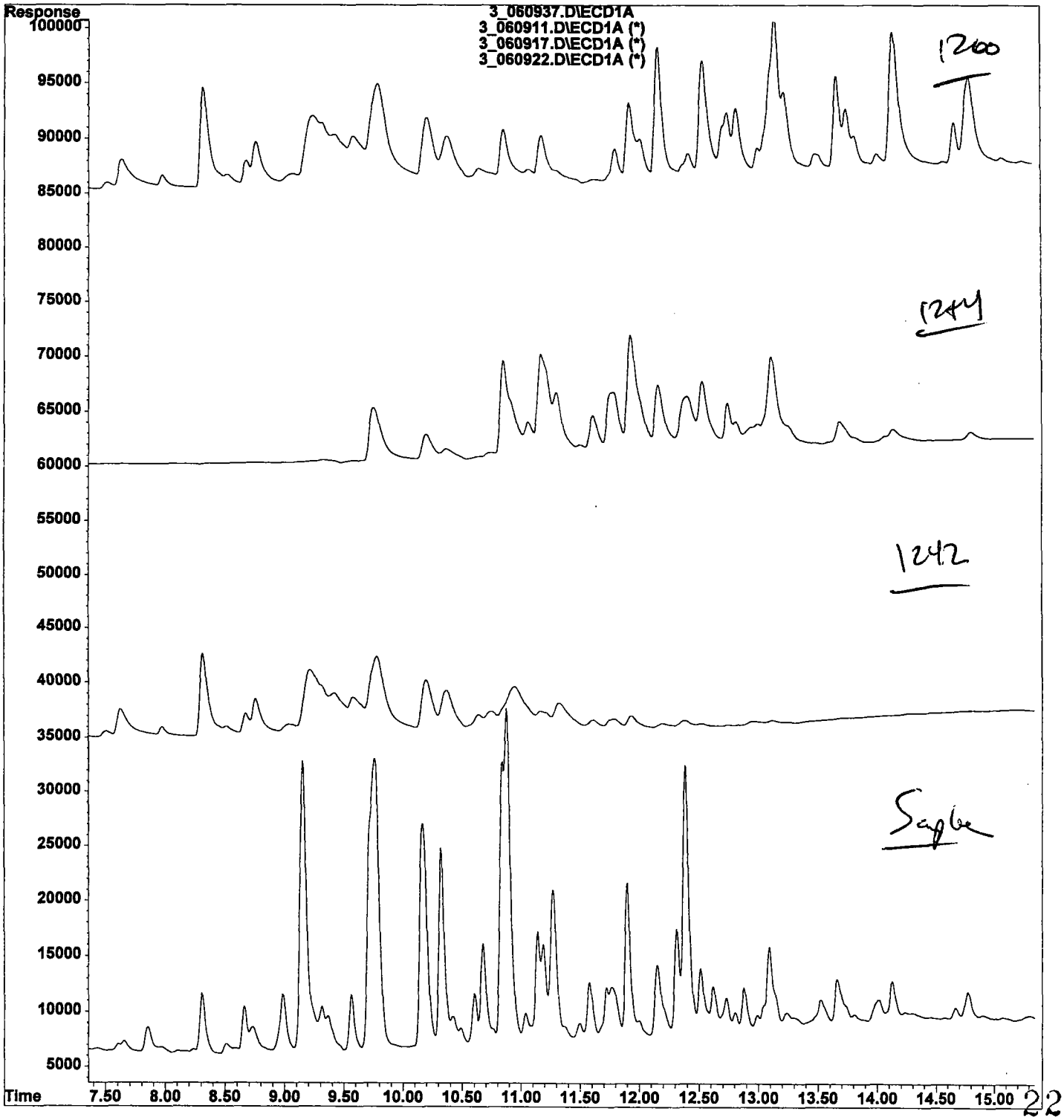




6/12/01

21

File : F:\HPCHEM\HP\3\DATA\06_09_01\3_060937.D
Operator : DDC
Acquired : 10 Jun 2001 3:19 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 46663.07
Misc Info :
Vial Number: 37



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30C3

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.08

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

% Moisture: 12 decanted: (Y/N) __ Date Received: 06/01/01

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

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

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1 Sulfur Cleanup: (Y/N) N

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	67	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	22	~~J~~
11096-82-5	Aroclor-1260	13	J
Surrogate amount spiked		7.55	

TBS 6/28/01

TB 7/11/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060670.D\ECD1A.CH Vial: 64
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060670.D\ECD2B.CH
Acq On : 07 Jun 2001 22:46 Operator: DDC
Sample : 46663.08 *E30C3 * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*12 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 10:37 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.44	6.47	324550	147737	5.195	5.998	
	Spiked Amount 7.551			Recovery	=	68.80%	79.44%	
22)	S DCB	17.12	18.41	492819	249416	7.084	7.036	
	Spiked Amount 7.551			Recovery	=	93.82%	93.18%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.75	7.80	56116	7245	52.6	17.1	#
8)	L4 Aroclor-1242 {2}	0.00	9.15	0	34323	N.D. d	77.9	#
9)	L4 Aroclor-1242 {3}	9.38	9.70	59748	7658	32.7	42.1	#
10)	L4 Aroclor-1242 {4}	10.17	10.67	220225	44660	116.2	86.2	#
11)	L4 Aroclor-1242 {5}	10.70	11.03	55140	86871	66.5	110.2	#
	Sum Aroclor-1242			391229	180757	268.0	333.4	
	Average Aroclor-1242					66.998	66.686	
12)	L6 Aroclor-1254	0.00	10.45	0	73293	N.D. d	180.1	#
13)	L6 Aroclor-1254 {2}	11.60	11.40	44399	21494	33.1	33.7	
14)	L6 Aroclor-1254 {3}	12.33	11.99	93134	18080	26.7	19.8	#
15)	L6 Aroclor-1254 {4}	12.74	12.38	16089	30185	14.4	18.5	#
16)	L6 Aroclor-1254 {5}	12.90	12.61	17907	27690	12.4	23.0	#
	Sum Aroclor-1254			171529	170742	86.6	275.0	
	Average Aroclor-1254					21.659	55.001	
17)	L7 Aroclor-1260	12.16	12.48	62063	14137	20.6	8.522	#
18)	L7 Aroclor-1260 {2}	12.52	12.61	45541	27690	14.1	15.2	
19)	L7 Aroclor-1260 {3}	0.00	13.36f	0	73559	N.D.	48.6	#
20)	L7 Aroclor-1260 {4}	13.68	0.00	17773	0	9.478	N.D.	#
21)	L7 Aroclor-1260 {5}	14.13	14.27	32228	11570	7.341	4.160	#
	Sum Aroclor-1260			157606	126957	19.4	28.9	
	Average Aroclor-1260					12.874	19.119	

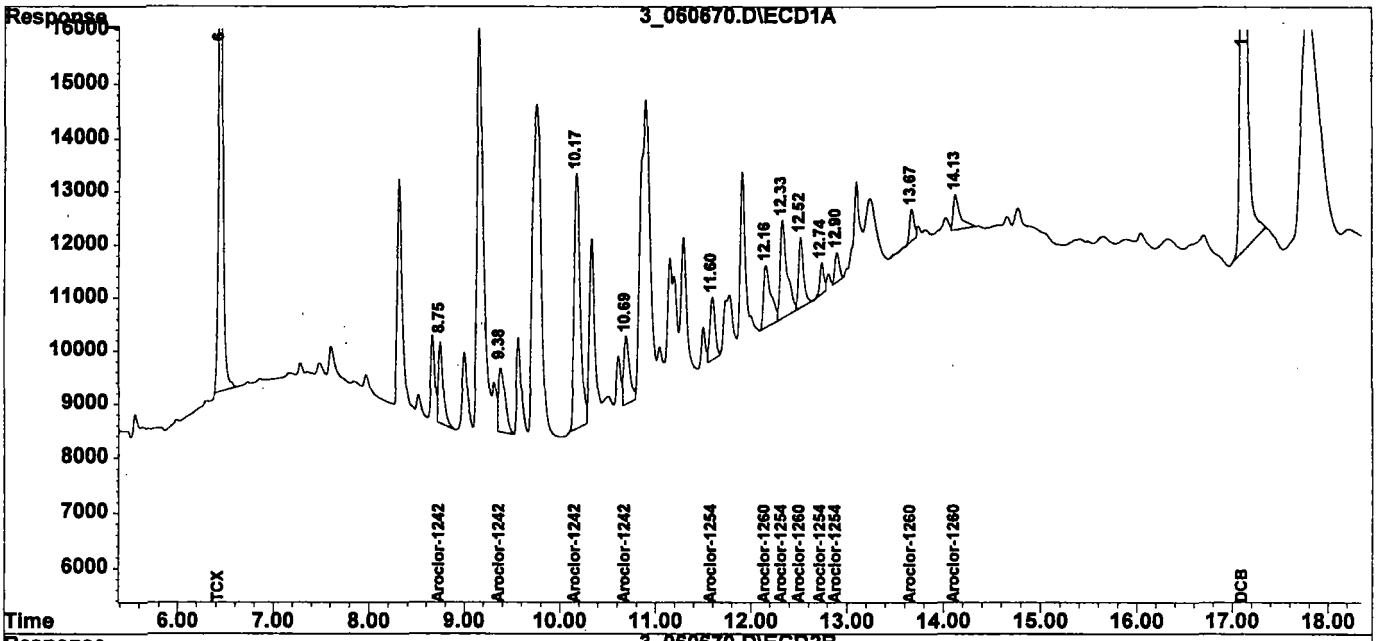
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

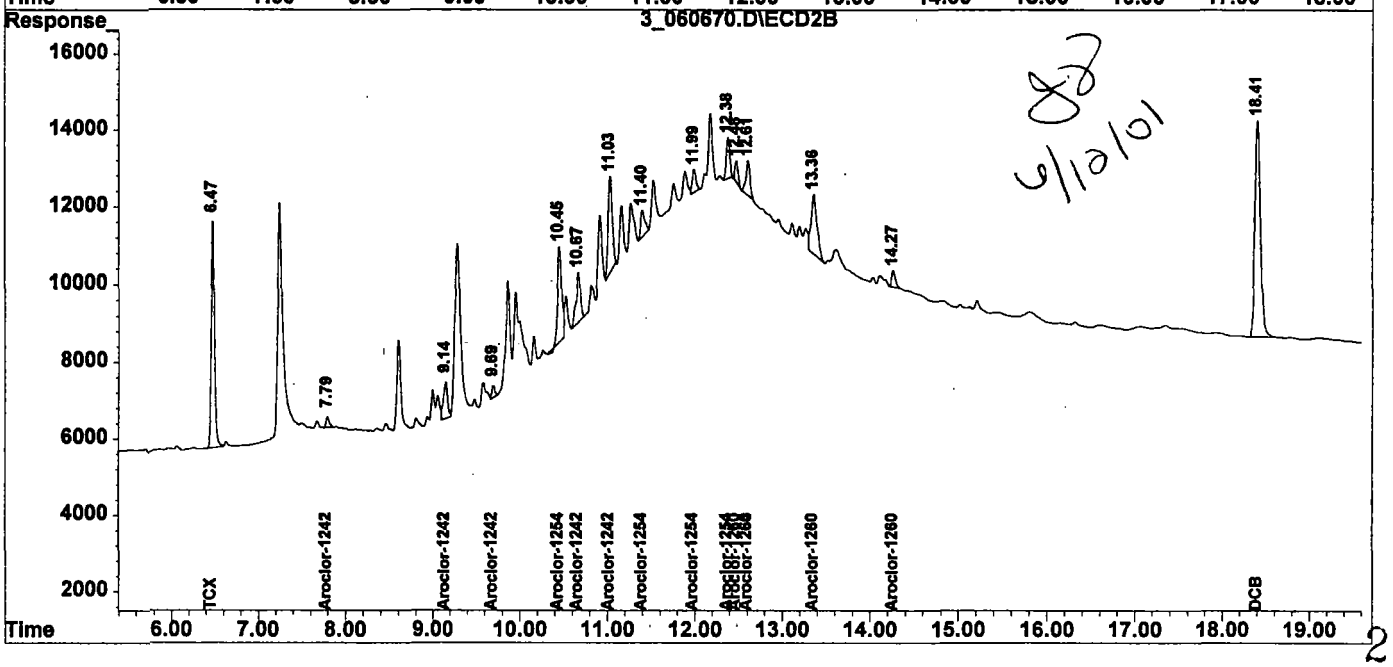
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060670.D\ECD1A.CH Vial: 64
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060670.D\ECD2B.CH
Acq On : 07 Jun 2001 22:46 Operator: DDC
Sample : 46663.08 *E30C3 * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*12 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 10:37 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

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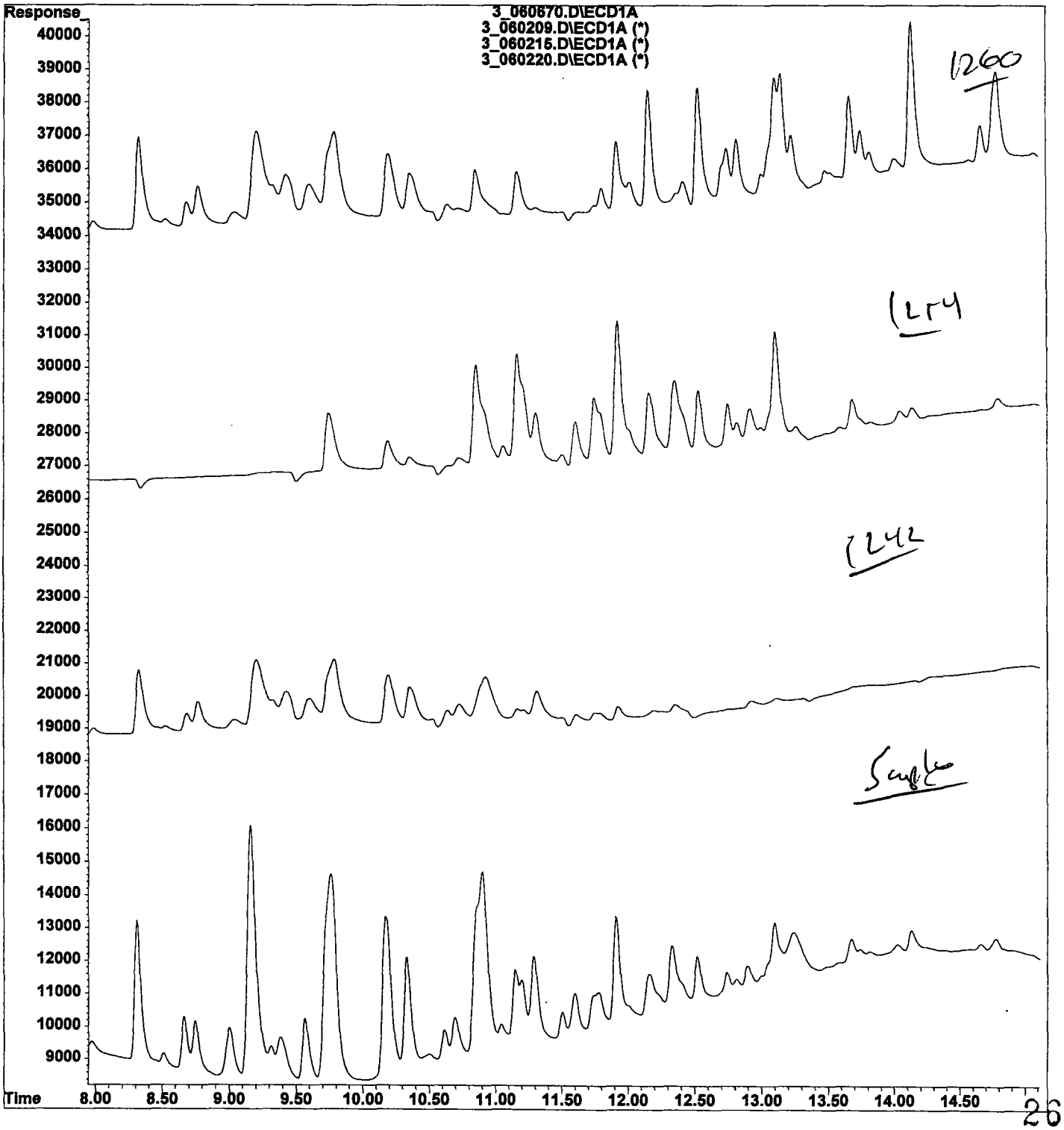
File : F:\HPCHEM\HP\3\DATA\06_06_01\3_060670.D
Operator : DDC
Acquired : 07 Jun 2001 22:46 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 46663.08
Misc Info :
Vial Number: 64



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30C4

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.09

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

% Moisture: 20 decanted: (Y/N) __ Date Received: 06/01/01

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

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/10/01

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	40	U
11104-28-2	Aroclor-1221	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	37	J
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	11	J
11096-82-5	Aroclor-1260	40	U
	Surrogate amount spiked	8.14	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060938.D\ECD1A.CH Vial: 38
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060938.D\ECD2B.CH
Acq On : 10 Jun 2001 3:43 Operator: DDC
Sample : 46663.09 *E30C4 * Inst : HP_03
Misc : *EPA*30.7G/5.0ML*20 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:31 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.48	367265	164113	5.822	6.802	
	Spiked Amount 8.143			Recovery	=	71.49%	83.53%	
22)	S DCB	17.12	18.42	452768	235875	7.917	8.104	
	Spiked Amount 8.143			Recovery	=	97.22%	99.52%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.76	7.80	26921	3589	22.4	9.964	#
8)	L4 Aroclor-1242 {2}	9.01f	9.15	30196	15208	69.8	36.4	#
	L4 Aroclor-1242 {3}	9.58	9.71	30574	5527	20.1	14.3	#
10)	L4 Aroclor-1242 {4}	10.18	10.68	94316	32465	49.7	65.0	#
11)	L4 Aroclor-1242 {5}	10.70f	11.04	19913	41314	28.4	59.1	#
	Sum Aroclor-1242			201920	98102	190.4	184.7	
	Average Aroclor-1242					38.089	36.937	
13)	L6 Aroclor-1254 {2}	11.60	11.40	23749	13240	22.4	15.9	#
14)	L6 Aroclor-1254 {3}	12.39	11.99	20522	6309	9.523	8.207	
15)	L6 Aroclor-1254 {4}	12.74	12.18	3919	21018	4.359	10.6	#
16)	L6 Aroclor-1254 {5}	13.10	12.62	36029	10324	9.783	8.315	
	Sum Aroclor-1254			84219	50890	46.0	43.0	
	Average Aroclor-1254					11.512	10.753	

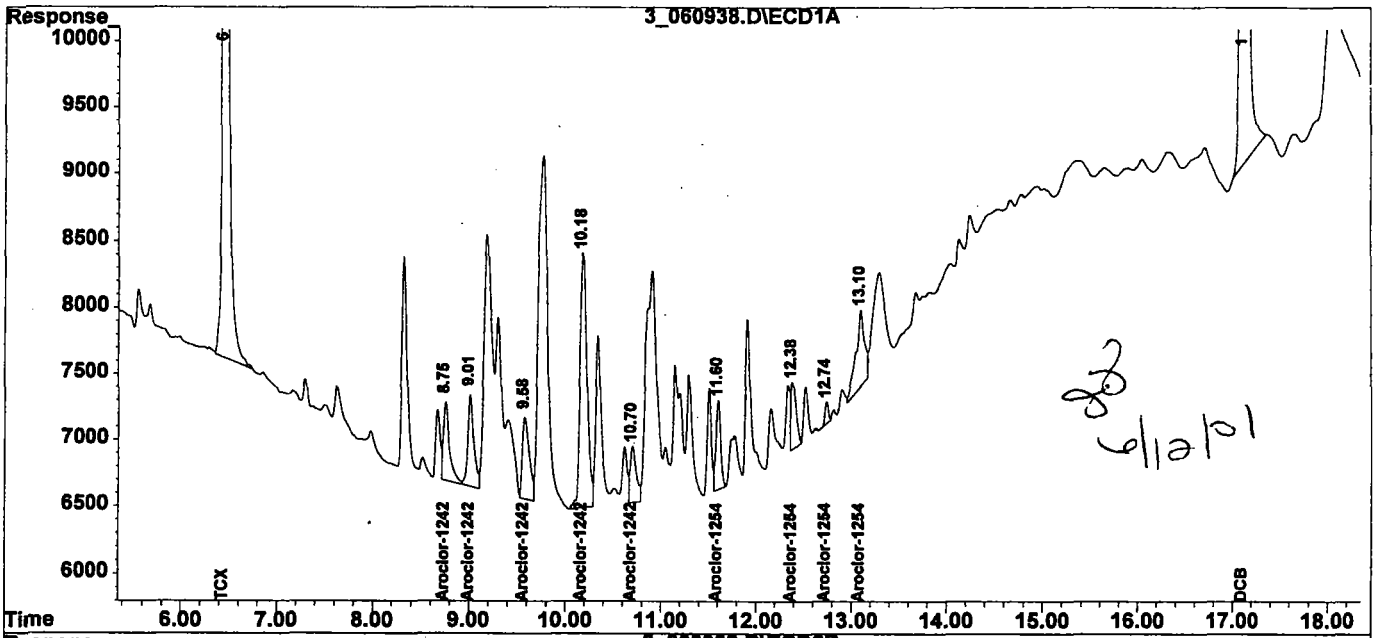
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

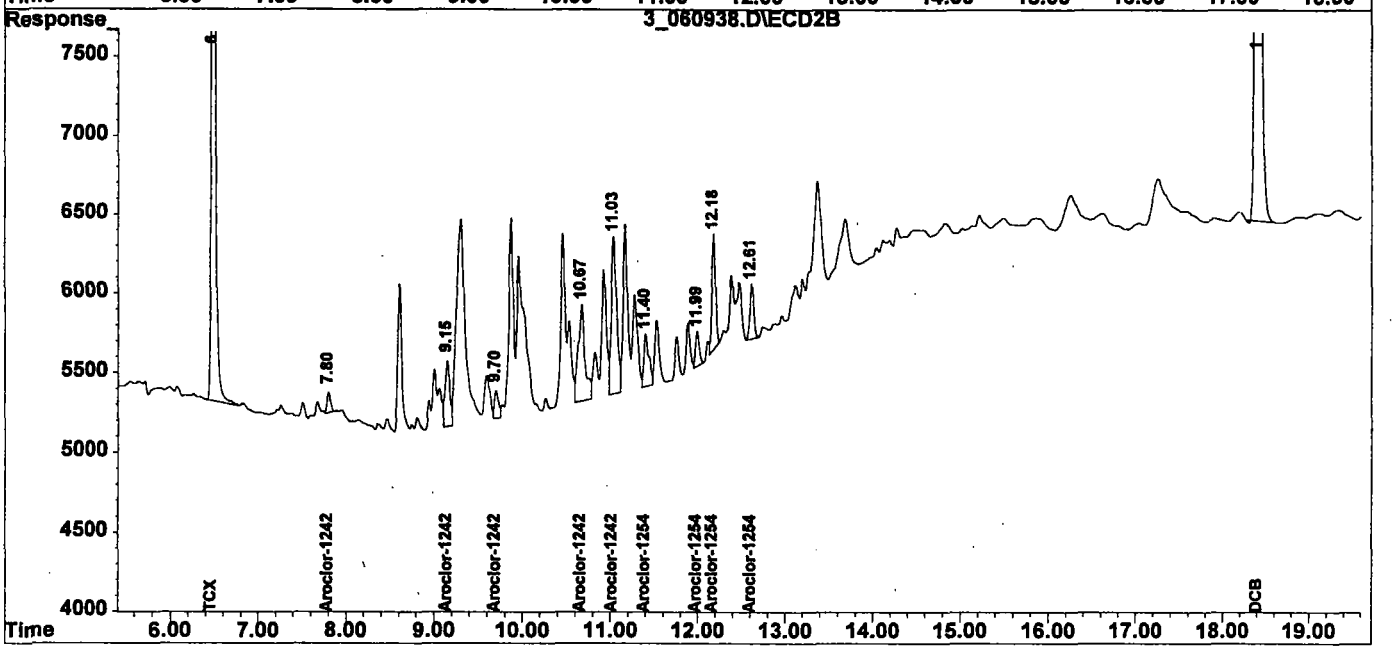
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060938.D\ECD1A.CH Vial: 38
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060938.D\ECD2B.CH
Acq On : 10 Jun 2001 3:43 Operator: DDC
Sample : 46663.09 *E30C4 * Inst : HP_03
Misc : *EPA*30.7G/5.0ML*20 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:31 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





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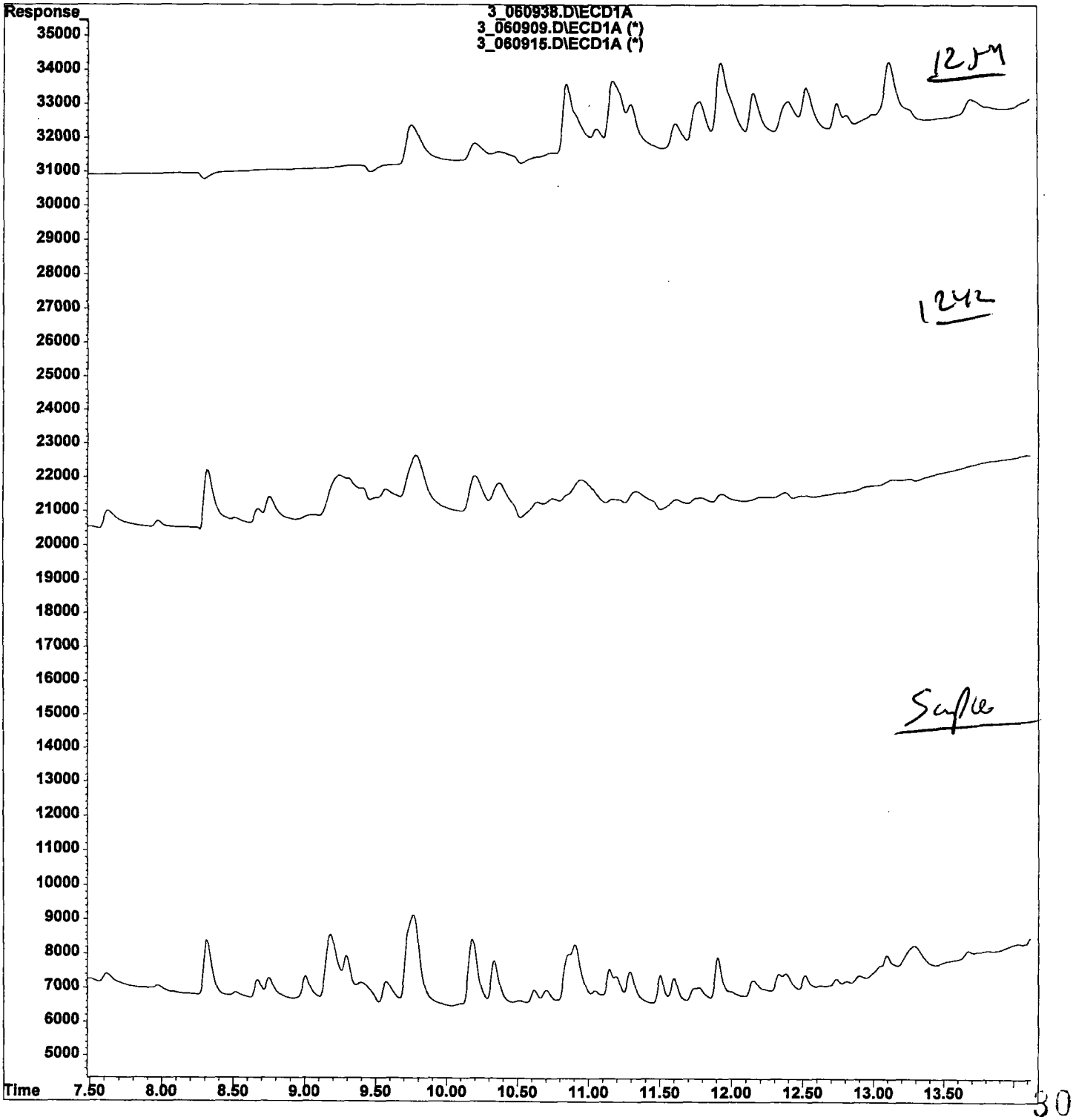
File : F:\HPCHEM\HP\3\DATA\06_09_01\3_060938.D
Operator : DDC
Acquired : 10 Jun 2001 3:43 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 46663.09
Misc Info :
Vial Number: 38



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30C5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.10

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

% Moisture: 54 decanted: (Y/N) __ Date Received: 06/01/01

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

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/10/01

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	70	U
11104-28-2	Aroclor-1221	70	U
11141-16-5	Aroclor-1232	70	U
53469-21-9	Aroclor-1242	70	U
12672-29-6	Aroclor-1248	70	U
11097-69-1	Aroclor-1254	70	U
11096-82-5	Aroclor-1260	70	U
Surrogate amount spiked		14.20	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060939.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060939.D\ECD2B.CH
Acq On : 10 Jun 2001 4:08 Operator: DDC
Sample : 46663.10 *E30C5 * Inst : HP_03
Misc : *EPA*30.6G/5.0ML*54 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:32 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.48	377830	164810	10.5	11.9
	Spiked Amount 14.209			Recovery	=	73.90%	83.75%
22)	S DCB	17.13	18.43	462942	255562	14.1	15.3
	Spiked Amount 14.209			Recovery	=	99.24%	107.68%

Target Compounds:

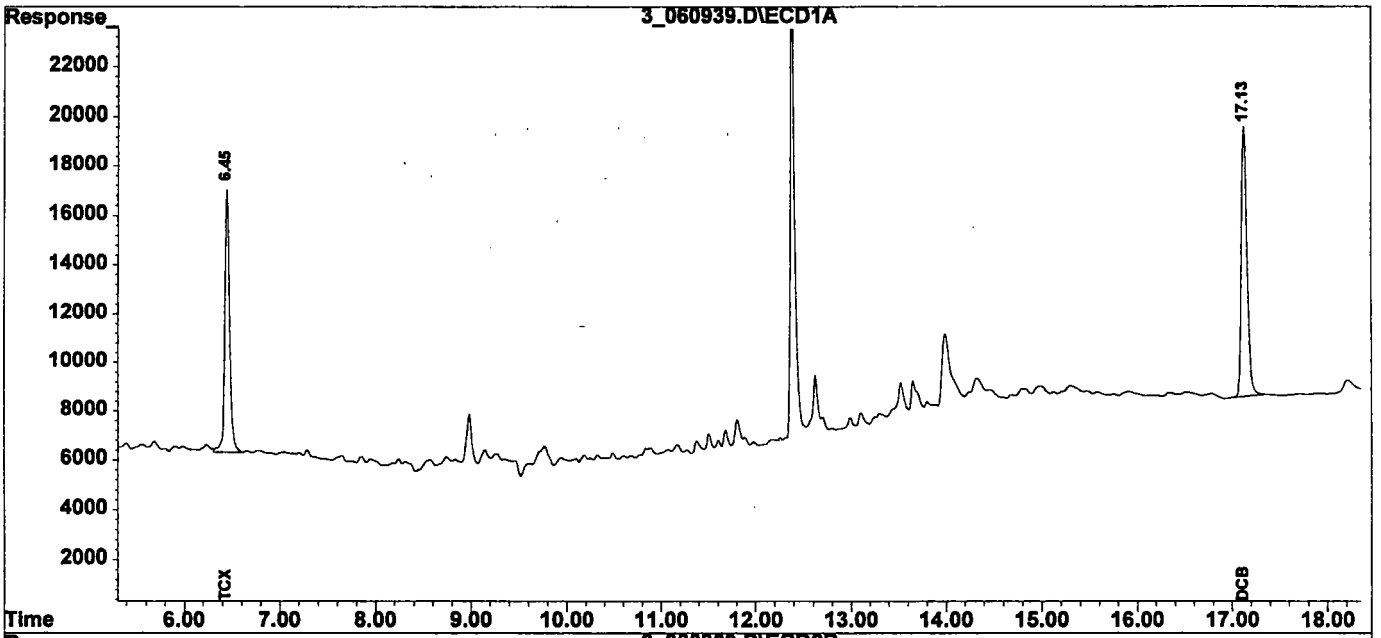
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

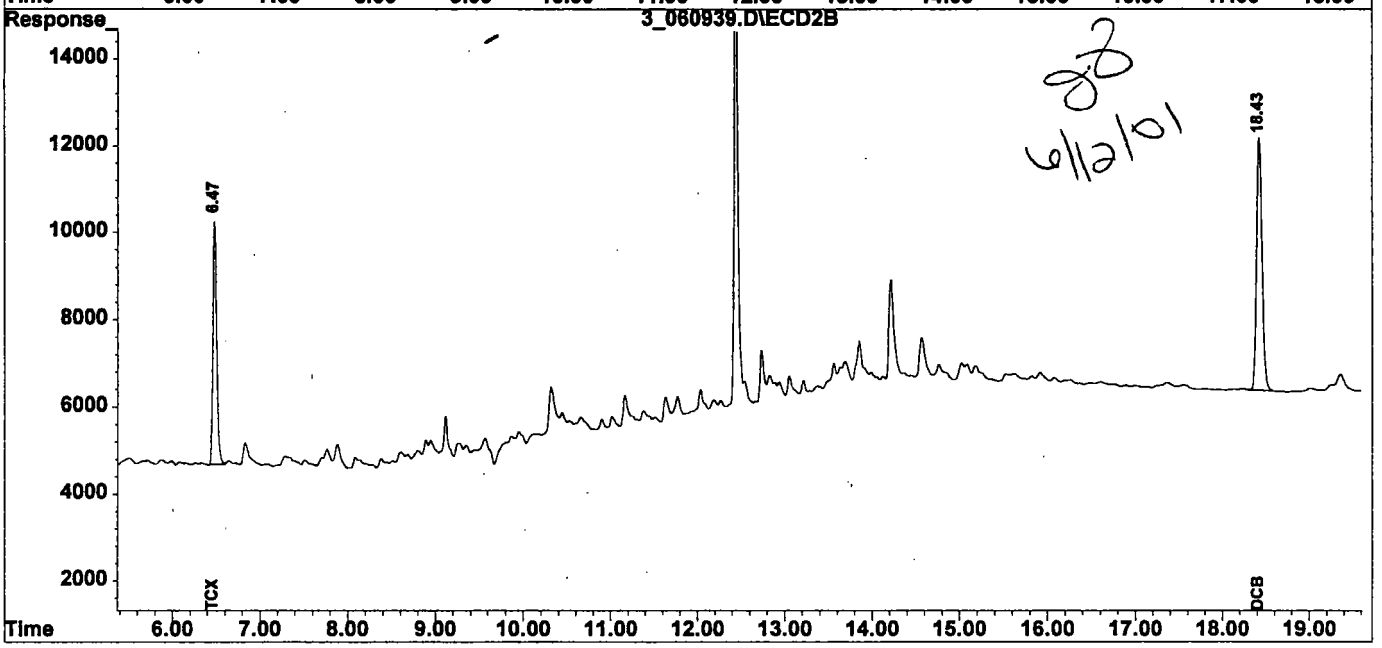
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060939.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060939.D\ECD2B.CH
Acq On : 10 Jun 2001 4:08 Operator: DDC
Sample : 46663.10 *E30C5 * Inst : HP_03
Misc : *EPA*30.6G/5.0ML*54 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:32 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





gb
6/12/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30C6

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.11

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

% Moisture: 54 decanted: (Y/N) __ Date Received: 06/01/01

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

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/10/01

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	70	U
11104-28-2	Aroclor-1221	70	U
11141-16-5	Aroclor-1232	70	U
53469-21-9	Aroclor-1242	70	U
12672-29-6	Aroclor-1248	70	U
11097-69-1	Aroclor-1254	70	U
11096-82-5	Aroclor-1260	70	U
	Surrogate amount spiked	14.17	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060946.D\ECD1A.CH Vial: 46
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060946.D\ECD2B.CH
Acq On : 10 Jun 2001 7:01 Operator: DDC
Sample : 46663.11 *E30C6 * Inst : HP_03
Misc : *EPA*30.7G/5.0ML*54 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:39 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.44	6.47	391098	169271	10.8	12.2
	Spiked Amount 14.162			Recovery	=	76.26%	86.14%
22)	S DCB	17.13	18.42	487016	273999	14.8	16.4
	Spiked Amount 14.162			Recovery	=	104.50%	115.80%

Target Compounds:

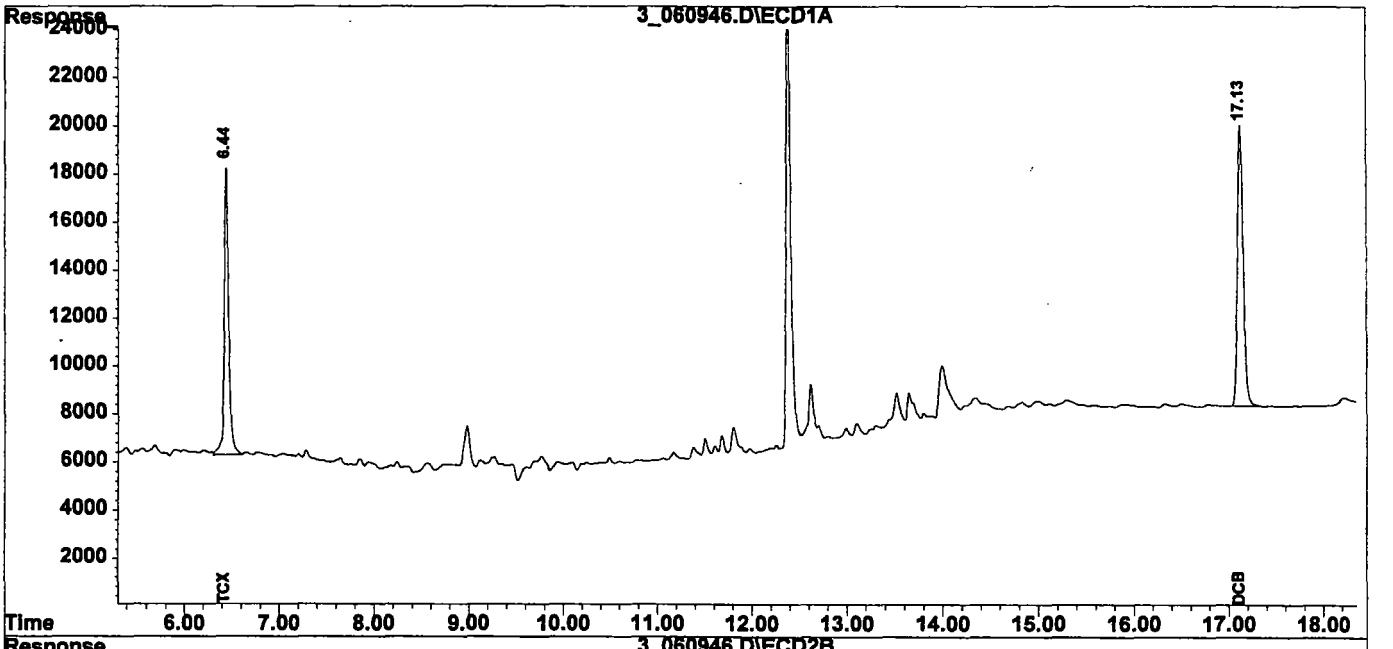
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

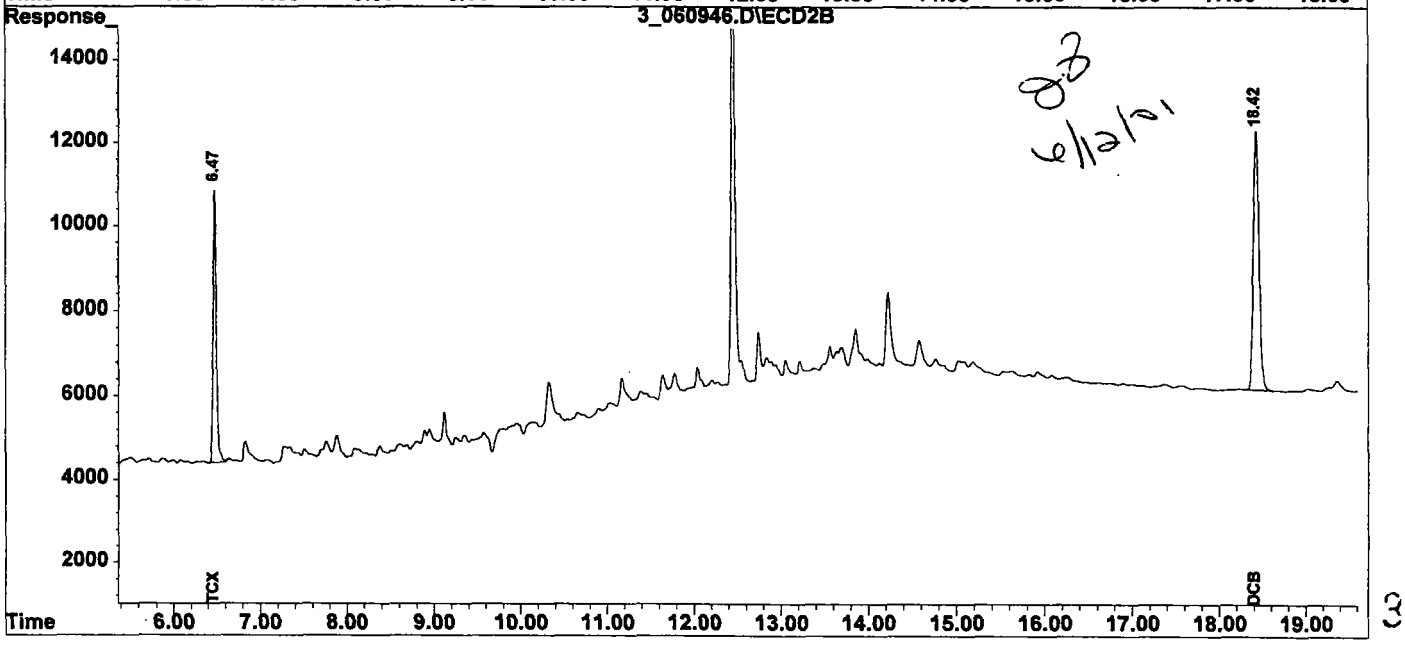
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060946.D\ECD1A.CH Vial: 46
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060946.D\ECD2B.CH
Acq On : 10 Jun 2001 7:01 Operator: DDC
Sample : 46663.11 *E30C6 * Inst : HP_03
Misc : *EPA*30.7G/5.0ML*54 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:39 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30C7

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.12

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

% Moisture: 49 decanted: (Y/N) __ Date Received: 06/01/01

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

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/10/01

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	64	U
11104-28-2	Aroclor-1221	64	U
11141-16-5	Aroclor-1232	64	U
53469-21-9	Aroclor-1242	64	U
12672-29-6	Aroclor-1248	64	U
11097-69-1	Aroclor-1254	64	U
11096-82-5	Aroclor-1260	64	U
Surrogate amount spiked		12.86	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060947.D\ECD1A.CH Vial: 47
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060947.D\ECD2B.CH
Acq On : 10 Jun 2001 7:25 Operator: DDC
Sample : 46663.12 *E30C7 * Inst : HP_03
Misc : *EPA*30.5G/5.0ML*49 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:39 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.48	337692	143282	8.453	9.376
	Spiked Amount 12.858			Recovery	=	65.74%	72.92%
22)	S DCB	17.12	18.42	380329	208589	10.5	11.3
	Spiked Amount 12.858			Recovery	=	81.66%	87.89%
	Target Compounds:						

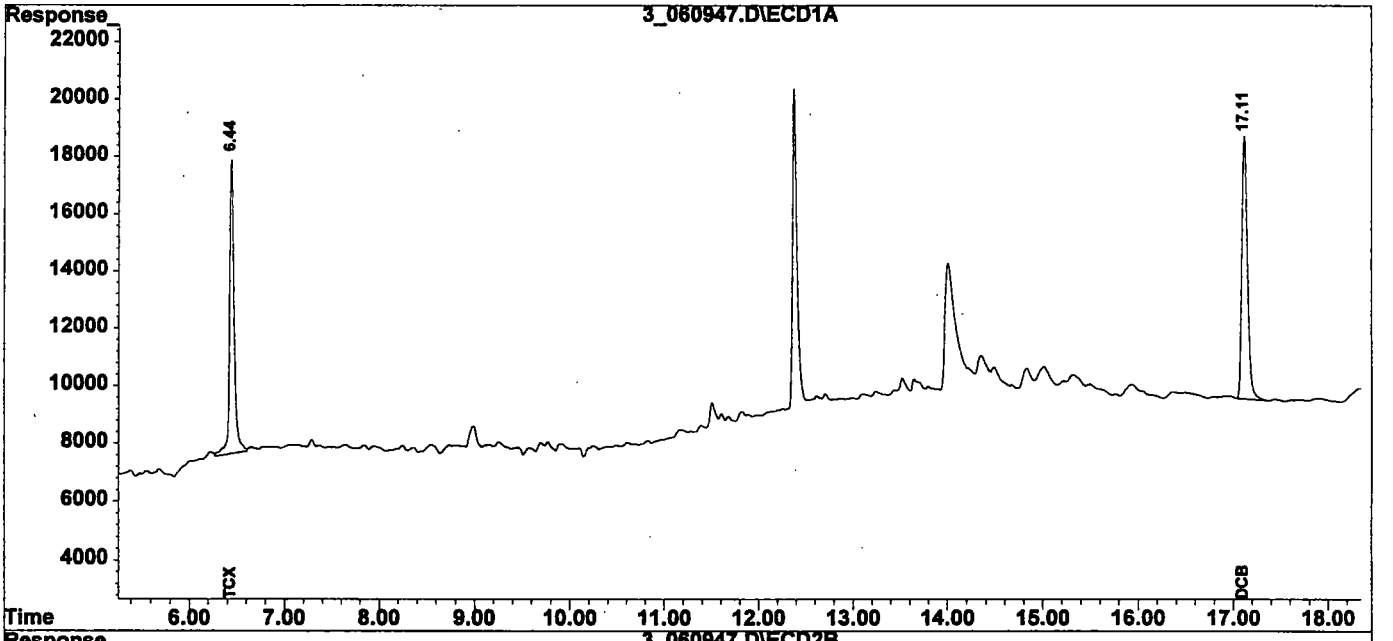
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

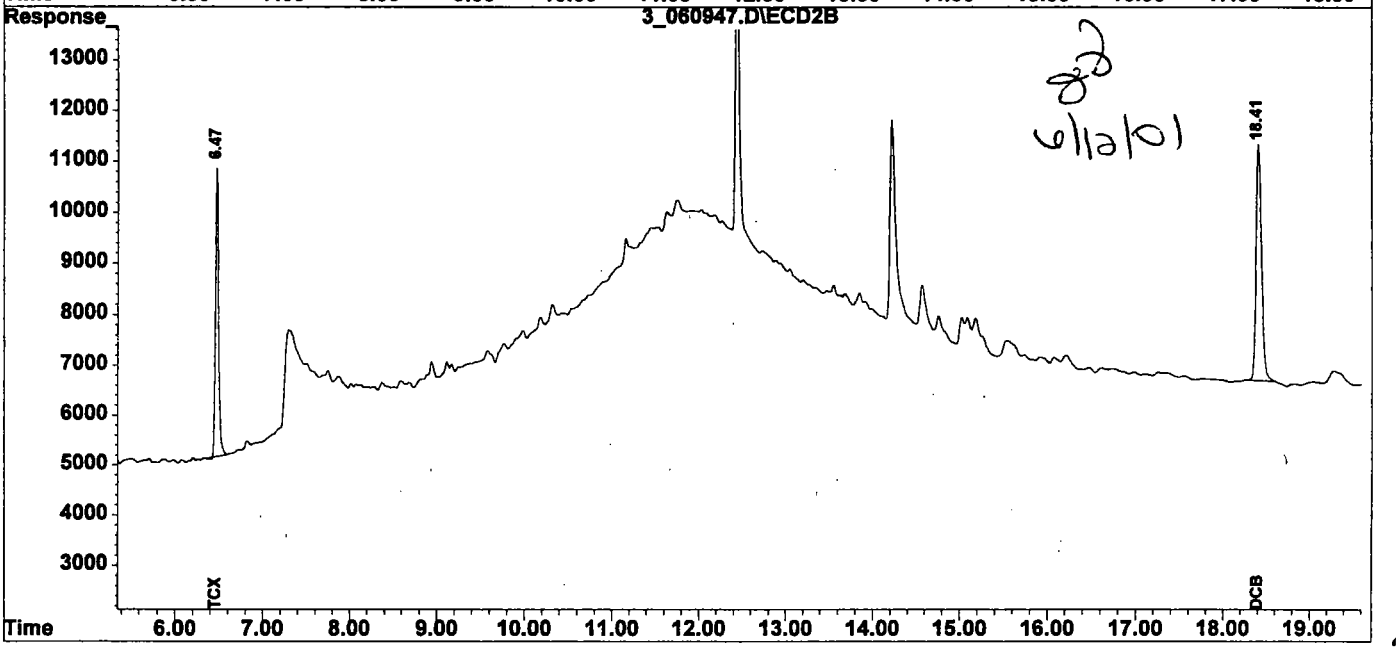
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060947.D\ECD1A.CH Vial: 47
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060947.D\ECD2B.CH
Acq On : 10 Jun 2001 7:25 Operator: DDC
Sample : 46663.12 *E30C7 * Inst : HP_03
Misc : *EPA*30.5G/5.0ML*49 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:39 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30D3

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.13

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

% Moisture: 56 decanted: (Y/N) __ Date Received: 06/01/01

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

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

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	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	480	
11096-82-5	Aroclor-1260	250	
Surrogate amount spiked		14.76	

TBS 6/28/01 TB 7/11/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060681.D\ECD1A.CH Vial: 75
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060681.D\ECD2B.CH
Acq On : 08 Jun 2001 3:18 Operator: DDC
Sample : 46663.13 *E30D3 * Inst : HP_03
Misc : *EPA*30.8G/5.0ML*56 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 14:12 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.48	425157	184128	13.3	14.6	
	Spiked Amount 14.758			Recovery	=	90.12%	98.93%	
22)	S DCB	17.13	18.42	608785	360965	17.1	19.9	
	Spiked Amount 14.758			Recovery	=	115.87%	134.84%	
	Target Compounds:							
13)	L6 Aroclor-1254 {2}	11.59	11.39	338181	279262	493.5	855.8	#
14)	L6 Aroclor-1254 {3}	12.32	11.99	821625	178922	460.2	382.8	
15)	L6 Aroclor-1254 {4}	12.74	12.37	248739	382387	435.0	457.2	
16)	L6 Aroclor-1254 {5}	12.89	12.61	402343	355941	544.5	577.6	
	Sum Aroclor-1254			1810889	1196511	1933.2	2273.3	
	Average Aroclor-1254					483.311	568.326	
17)	L7 Aroclor-1260	12.15	12.47	692341	184037	448.8	216.8	#
18)	L7 Aroclor-1260 {2}	12.52	12.61	607274	355941	367.2	382.9	
20)	L7 Aroclor-1260 {4}	0.00	14.04	0	89003	N.D. d	176.9	#
21)	L7 Aroclor-1260 {5}	14.13	14.27	528300	326400	235.2	229.4	
	Sum Aroclor-1260			1827915	955380	775.7	742.4	
	Average Aroclor-1260					350.422	251.521	

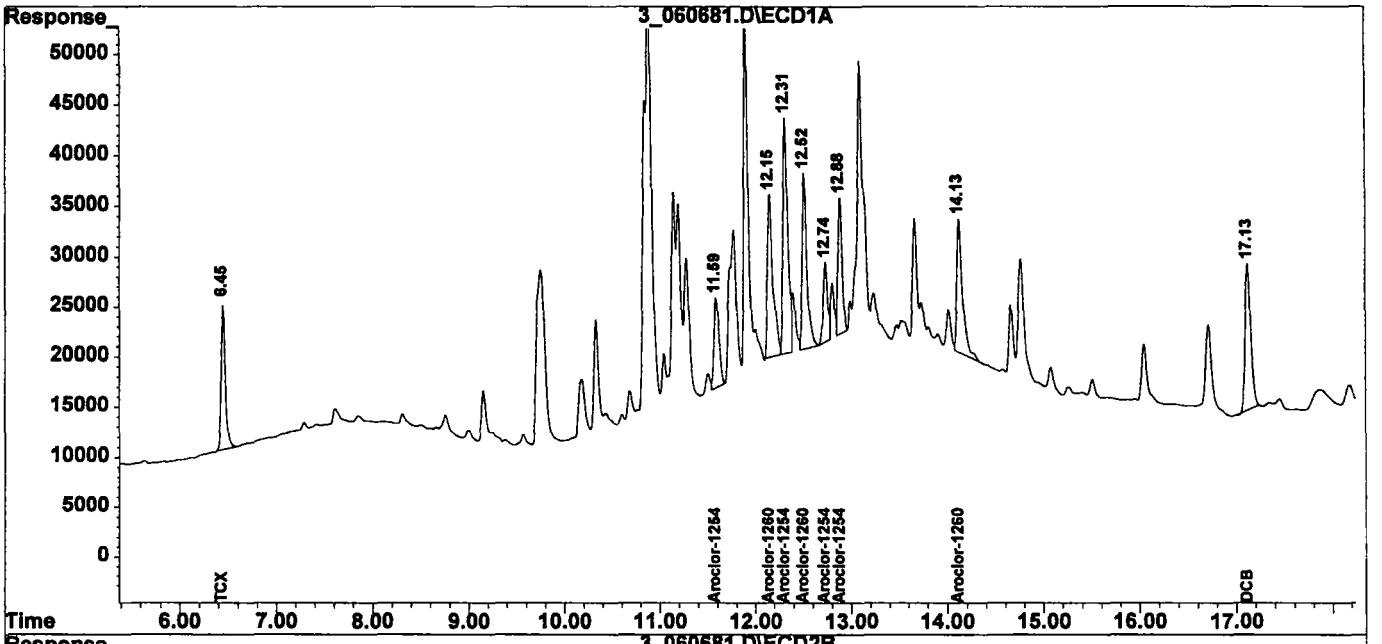
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

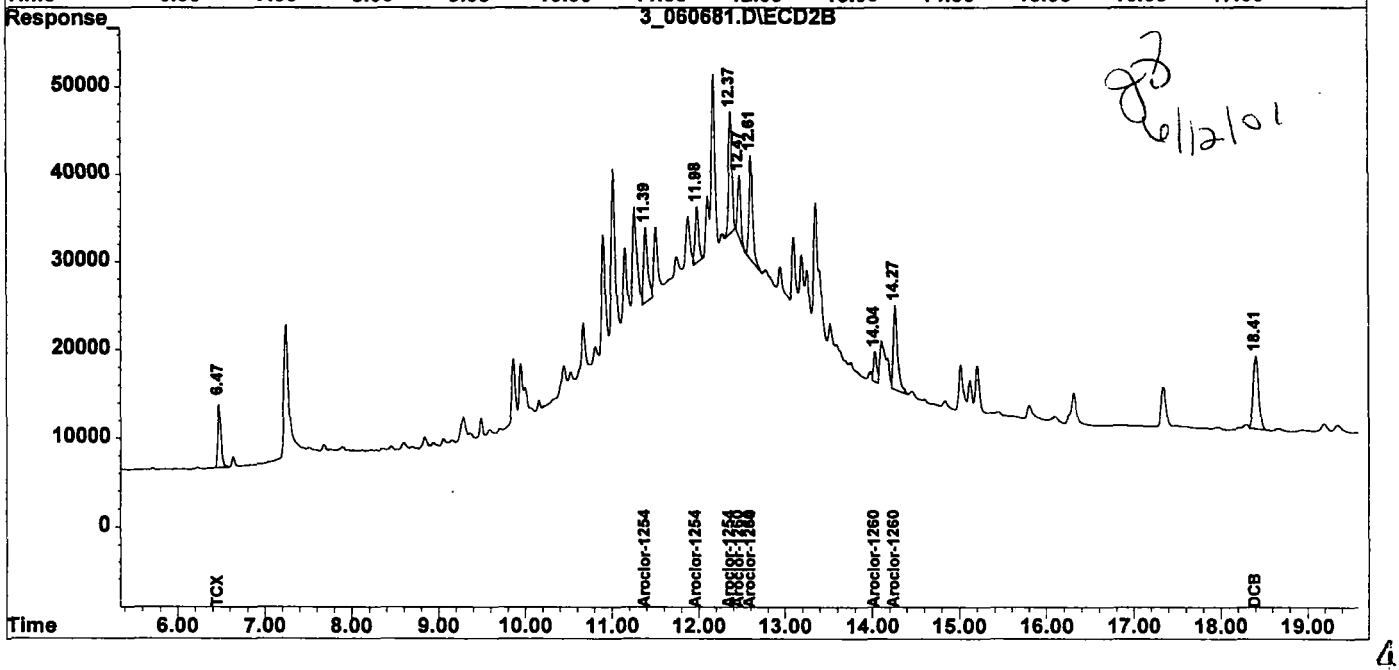
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060681.D\ECD1A.CH Vial: 75
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060681.D\ECD2B.CH
Acq On : 08 Jun 2001 3:18 Operator: DDC
Sample : 46663.13 *E30D3 * Inst : HP_03
Misc : *EPA*30.8G/5.0ML*56 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 14:12 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

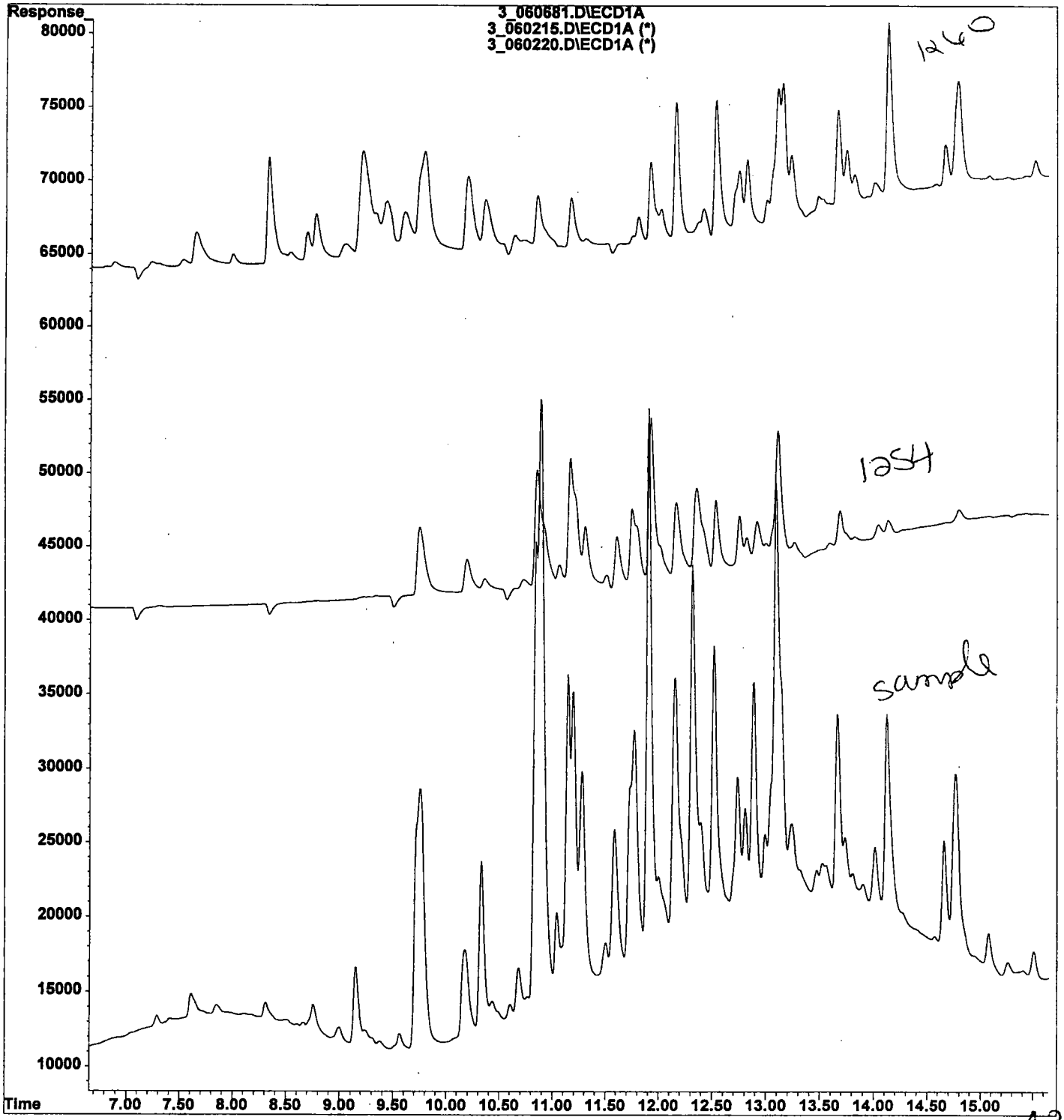




6/12/01

42

File : F:\HPCHEM\HP\3\DATA\06_06_01\3_060681.D
Operator : DDC
Acquired : 08 Jun 2001 3:18 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 46663.13 *E30D3 *
Misc Info : *EPA*30.8G/5.0ML*56
Vial Number: 75



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30D4

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.14

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

% Moisture: 61 decanted: (Y/N) __ Date Received: 06/01/01

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

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

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	84	U
11104-28-2	Aroclor-1221	84	U
11141-16-5	Aroclor-1232	84	U
53469-21-9	Aroclor-1242	84	U
12672-29-6	Aroclor-1248	84	U
11097-69-1	Aroclor-1254	200	
11096-82-5	Aroclor-1260	100	
Surrogate amount spiked		16.99	

TBS 6/28/01

TB 7/11/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060682.D\ECD1A.CH Vial: 76
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060682.D\ECD2B.CH
Acq On : 08 Jun 2001 3:42 Operator: DDC
Sample : 46663.14 *E30D4 * Inst : HP_03
Misc : *EPA*30.2G/5.0ML*61 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 14:14 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	411023	177784	14.8	16.2	
	Spiked Amount 16.981			Recovery	=	87.16%	95.40%	
22)	S DCB	17.13	18.42	490690	279468	15.9	17.7	
	Spiked Amount 16.981			Recovery	=	93.64%	104.24%	
	Target Compounds:							
12)	L6 Aroclor-1254	0.00	10.45	0	46699	N.D. d	258.0	#
1[illegible]	L6 Aroclor-1254 {2}	11.59	11.39	138736	107803	233.0	380.1	#
14)	L6 Aroclor-1254 {3}	12.32	11.98	261300	70015	168.4	172.3	
15)	L6 Aroclor-1254 {4}	12.74	0.00	91695	0	184.5	N.D. d	#
16)	L6 Aroclor-1254 {5}	12.89	12.61	125266	128518	195.1	240.0	
	Sum Aroclor-1254			616996	353035	780.9	1050.4	
	Average Aroclor-1254					195.234	262.608	
17)	L7 Aroclor-1260	12.16	0.00	261169	0	194.8	N.D. d	#
18)	L7 Aroclor-1260 {2}	12.52	12.61	219608	128518	152.8	159.1	
20)	L7 Aroclor-1260 {4}	0.00	14.04	0	27231	N.D. d	62.3	#
21)	L7 Aroclor-1260 {5}	14.13	14.27	163191	100873	83.6	81.6	
	Sum Aroclor-1260			643968	256622	366.1	257.2	
	Average Aroclor-1260					143.738	100.983	

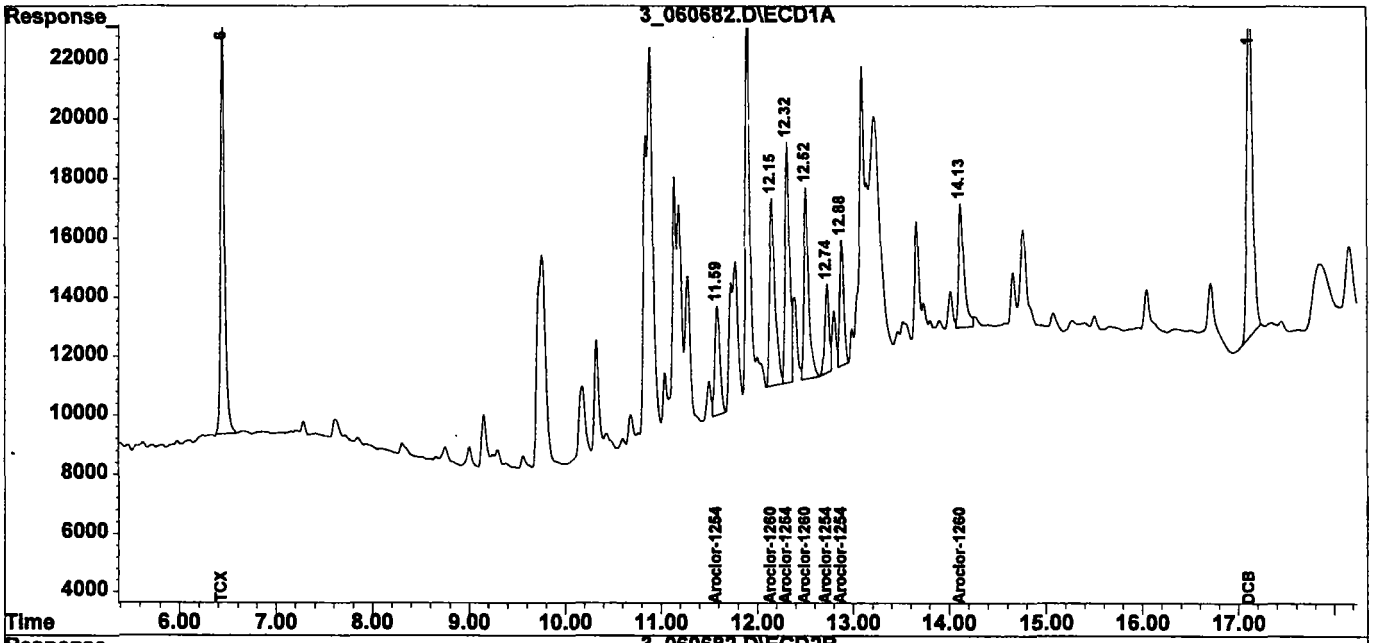
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

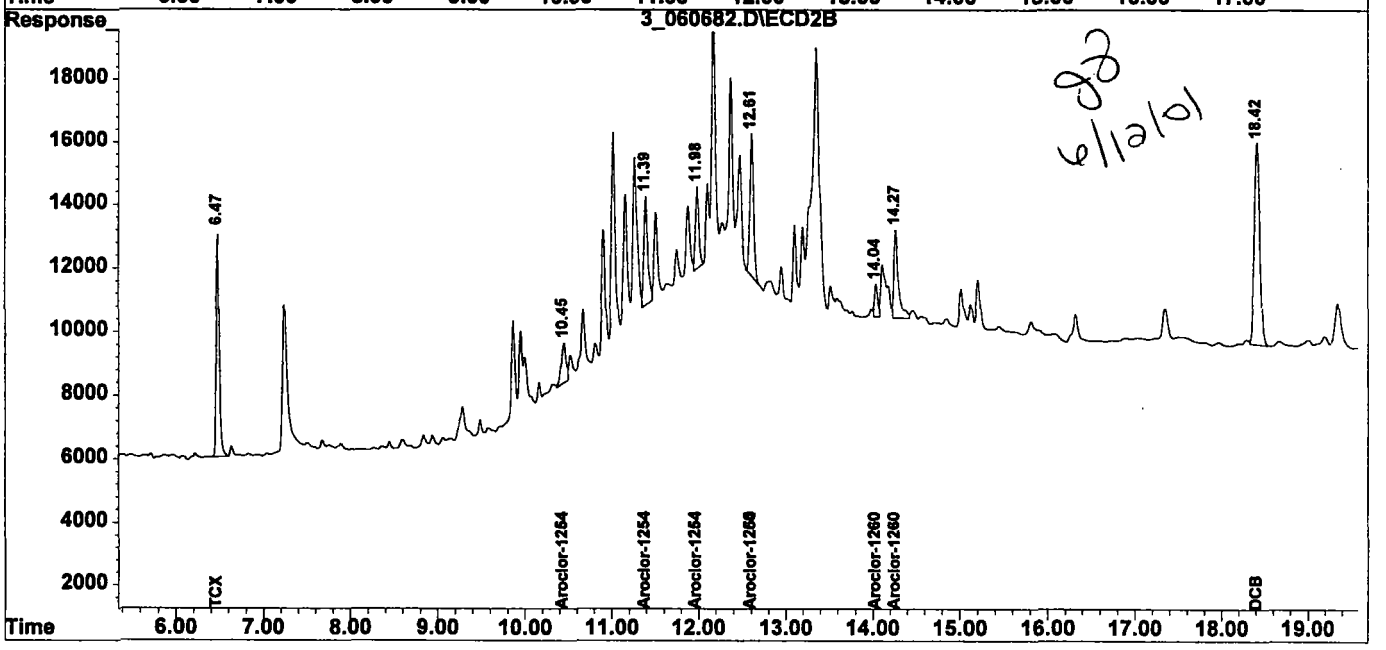
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060682.D\ECD1A.CH Vial: 76
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060682.D\ECD2B.CH
Acq On : 08 Jun 2001 3:42 Operator: DDC
Sample : 46663.14 *E30D4 * Inst : HP_03
Misc : *EPA*30.2G/5.0ML*61 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 14:14 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





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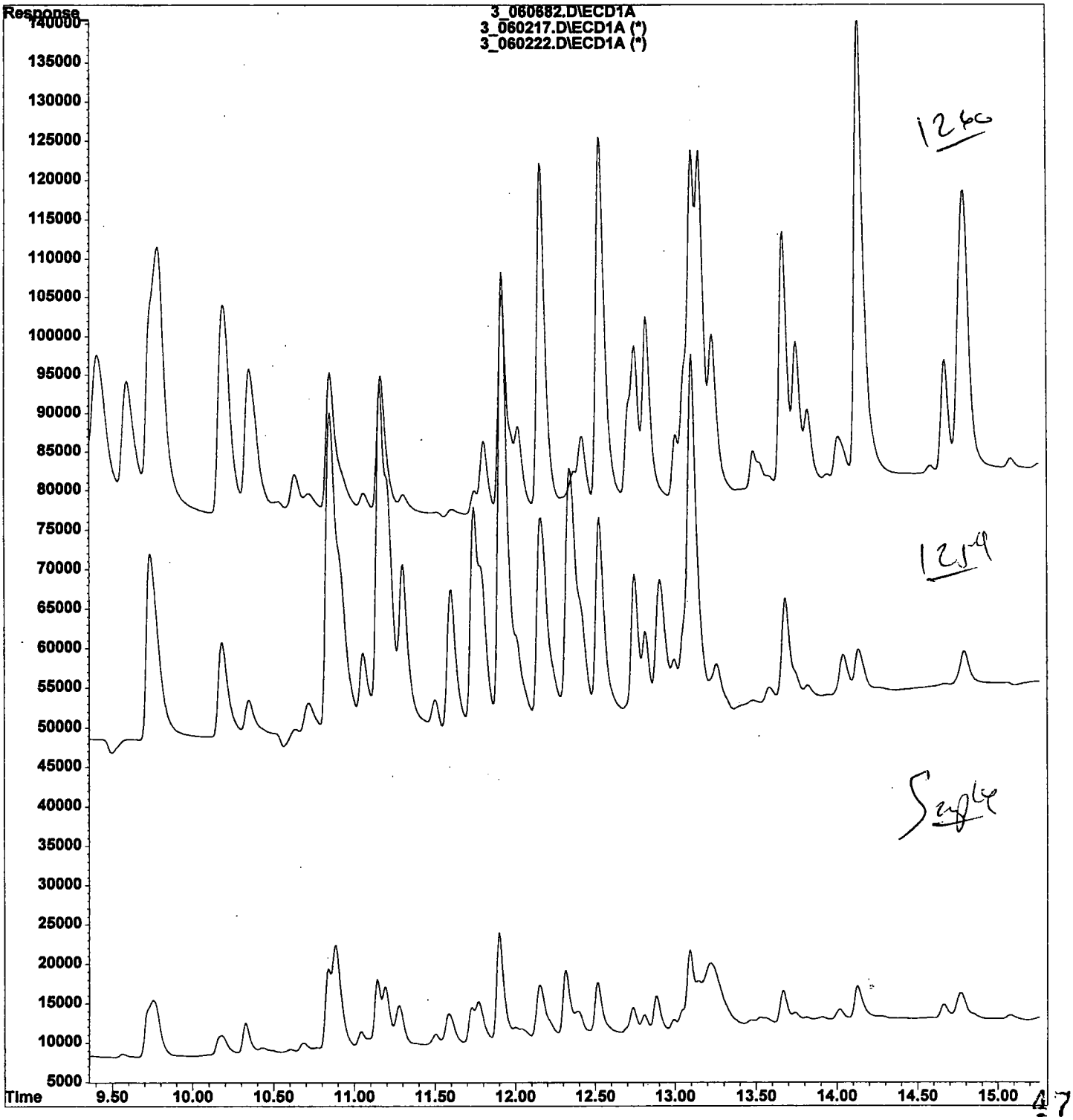
6/12/01

46

File : F:\HPCHEM\HP\3\DATA\06_06_01\3_060682.D
Operator : DDC
Acquired : 08 Jun 2001 3:42 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 46663.14
Misc Info :
Vial Number: 76



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30D5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.15

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

% Moisture: 55 decanted: (Y/N) __ Date Received: 06/01/01

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

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

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	72	U
11104-28-2	Aroclor-1221	72	U
11141-16-5	Aroclor-1232	72	U
53469-21-9	Aroclor-1242	72	U
12672-29-6	Aroclor-1248	72	U
11097-69-1	Aroclor-1254	72	U
11096-82-5	Aroclor-1260	72	U
Surrogate amount spiked		14.52	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060683.D\ECD1A.CH Vial: 77
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060683.D\ECD2B.CH
Acq On : 08 Jun 2001 4:07 Operator: DDC
Sample : 46663.15 *E30D5 * Inst : HP_03
Misc : *EPA*30.6G/5.0ML*55 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 14:02 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.48	339639	143104	10.5	11.2
	Spiked Amount 14.524			Recovery	=	72.29%	77.11%
22)	S DCB	17.13	18.42	419760	222815	11.6	12.1
	Spiked Amount 14.524			Recovery	=	79.87%	83.31%

Target Compounds:

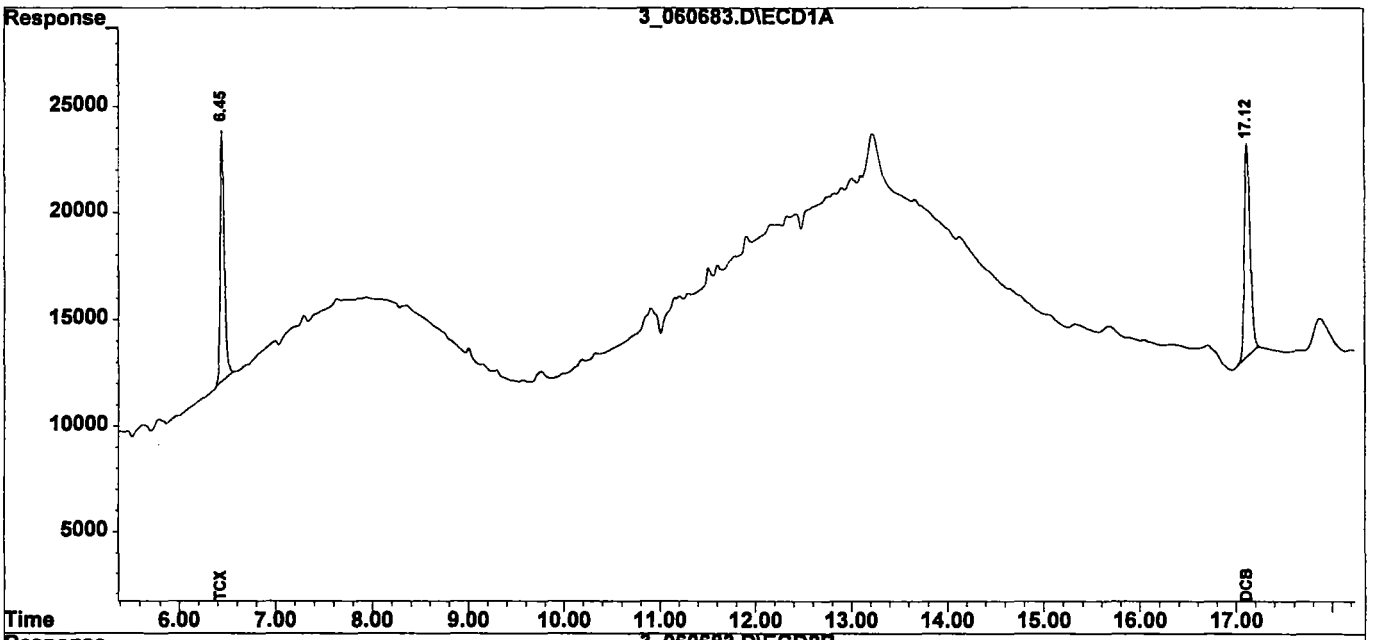
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

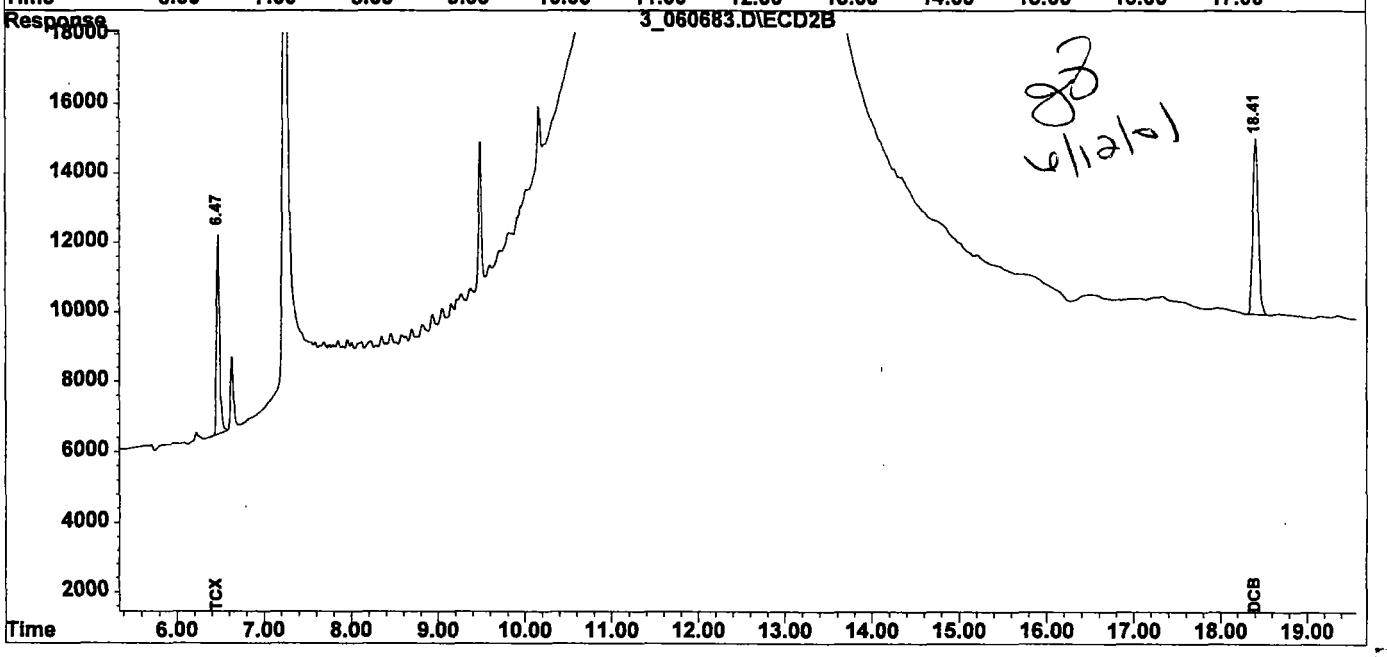
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060683.D\ECD1A.CH Vial: 77
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060683.D\ECD2B.CH
Acq On : 08 Jun 2001 4:07 Operator: DDC
Sample : 46663.15 *E30D5 * Inst : HP_03
Misc : *EPA*30.6G/5.0ML*55 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 14:02 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060683.D\ECD1A.CH Vial: 77
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060683.D\ECD2B.CH
Acq On : 08 Jun 2001 4:07 Operator: DDC
Sample : 46663.15 *E30D5 * Inst : HP_03
Misc : *EPA*30.6G/5.0ML*55 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 14:02 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.48	339639	143104	10.5	11.2
	Spiked Amount 14.524			Recovery	=	72.29%	77.11%
22)	S DCB	17.13	18.42	419760	222815	11.6	12.1
	Spiked Amount 14.524			Recovery	=	79.87%	83.31%

Target Compounds:

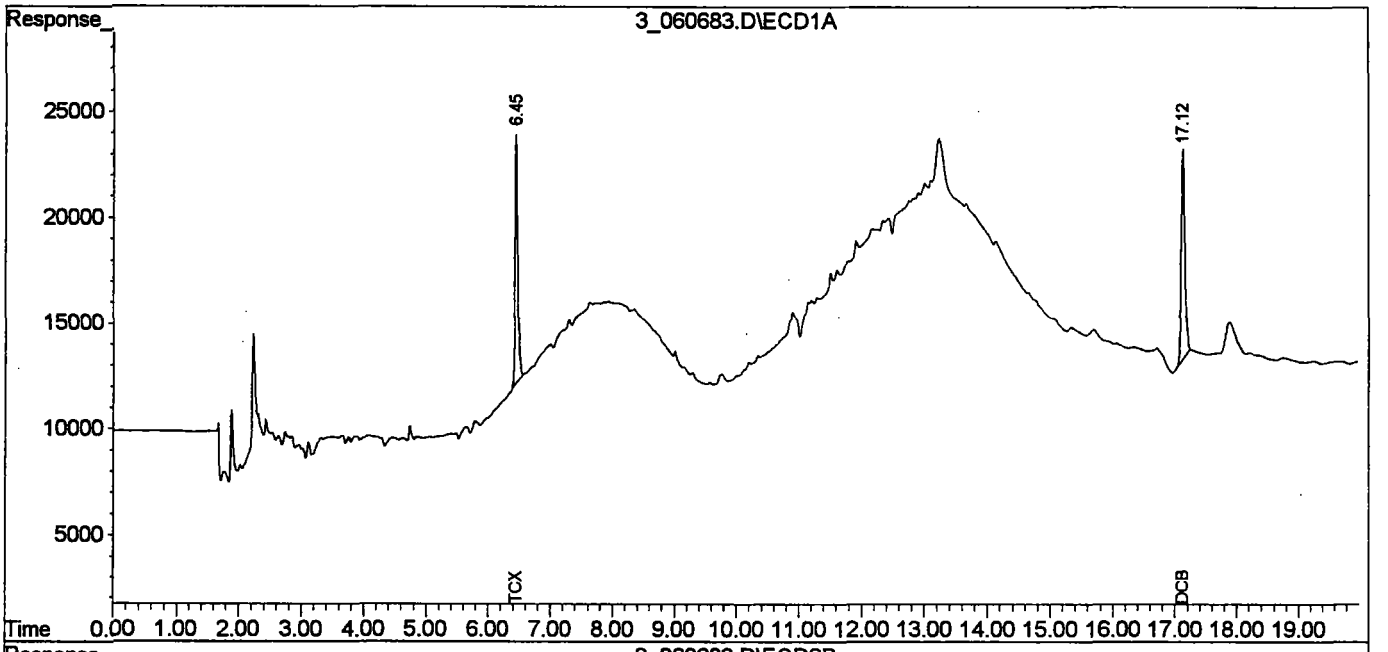
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

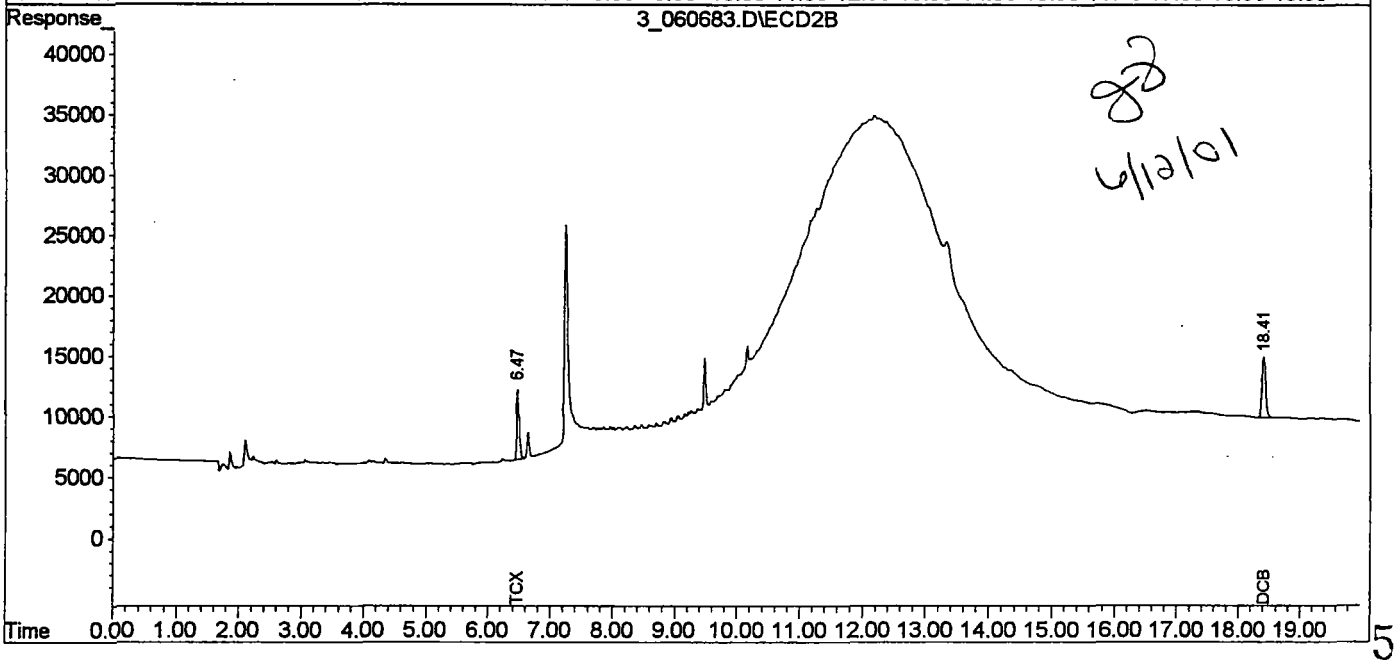
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060683.D\ECD1A.CH Vial: 77
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060683.D\ECD2B.CH
Acq On : 08 Jun 2001 4:07 Operator: DDC
Sample : 46663.15 *E30D5 * Inst : HP_03
Misc : *EPA*30.6G/5.0ML*55 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 14:02 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

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1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30D6

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.16

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

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

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

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

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	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	43	J
11096-82-5	Aroclor-1260	20	J ~~JP~~
	Surrogate amount spiked	17.38	

TBS 6/29/01 PB 7/11/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060684.D\ECD1A.CH Vial: 78
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060684.D\ECD2B.CH
Acq On : 08 Jun 2001 4:32 Operator: DDC
Sample : 46663.16 *E30D6 * 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: Jun 8 14:18 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	464000	189173	17.1	17.7	
	Spiked Amount 17.370			Recovery	=	98.44%	101.90%	
22)	S DCB	17.12	18.42	498093	272739	16.5	17.7	
	Spiked Amount 17.370			Recovery	=	94.99%	101.90%	
	Target Compounds:							
13)	L6 Aroclor-1254 {2}	11.60	11.40	42766	32721	73.5	118.0	#
14)	L6 Aroclor-1254 {3}	12.32	11.99	52281	14432	34.5	36.3	
15)	L6 Aroclor-1254 {4}	12.74	12.37	16095	19639	33.1	27.6	
16)	L6 Aroclor-1254 {5}	12.89	12.61	19218	32048	30.6	61.2m	#
	Sum Aroclor-1254			130361	98841	171.7	243.2	
	Average Aroclor-1254					42.917	60.801	
17)	L7 Aroclor-1260	12.16	12.61f	55642	29932	42.5	41.5m	
18)	L7 Aroclor-1260 {2}	12.52	13.39f	50595	9008	36.0	11.4m	#
20)	L7 Aroclor-1260 {4}	0.00	14.04	0	3701	N.D. d	8.660	#
21)	L7 Aroclor-1260 {5}	14.13	14.27	39920	24882	20.9	20.6	
	Sum Aroclor-1260			146157	67523	86.3	71.4	
	Average Aroclor-1260					33.129	20.538	

DDC 6-8-21

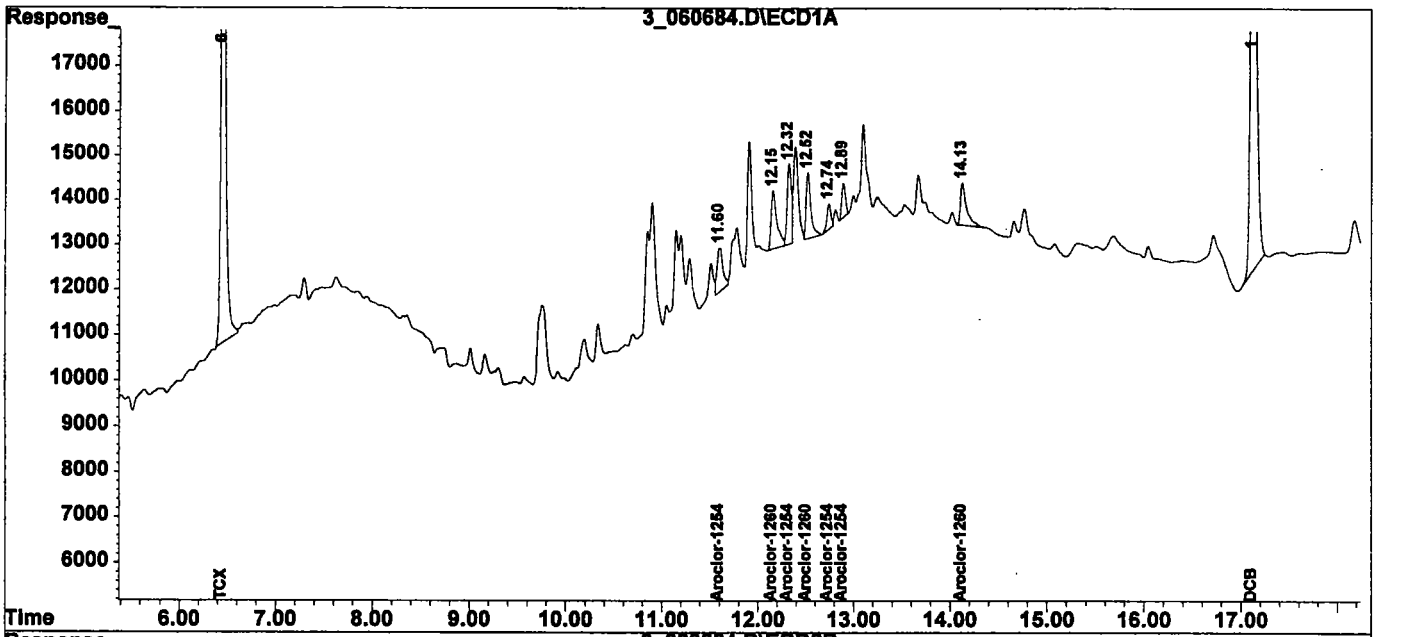
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

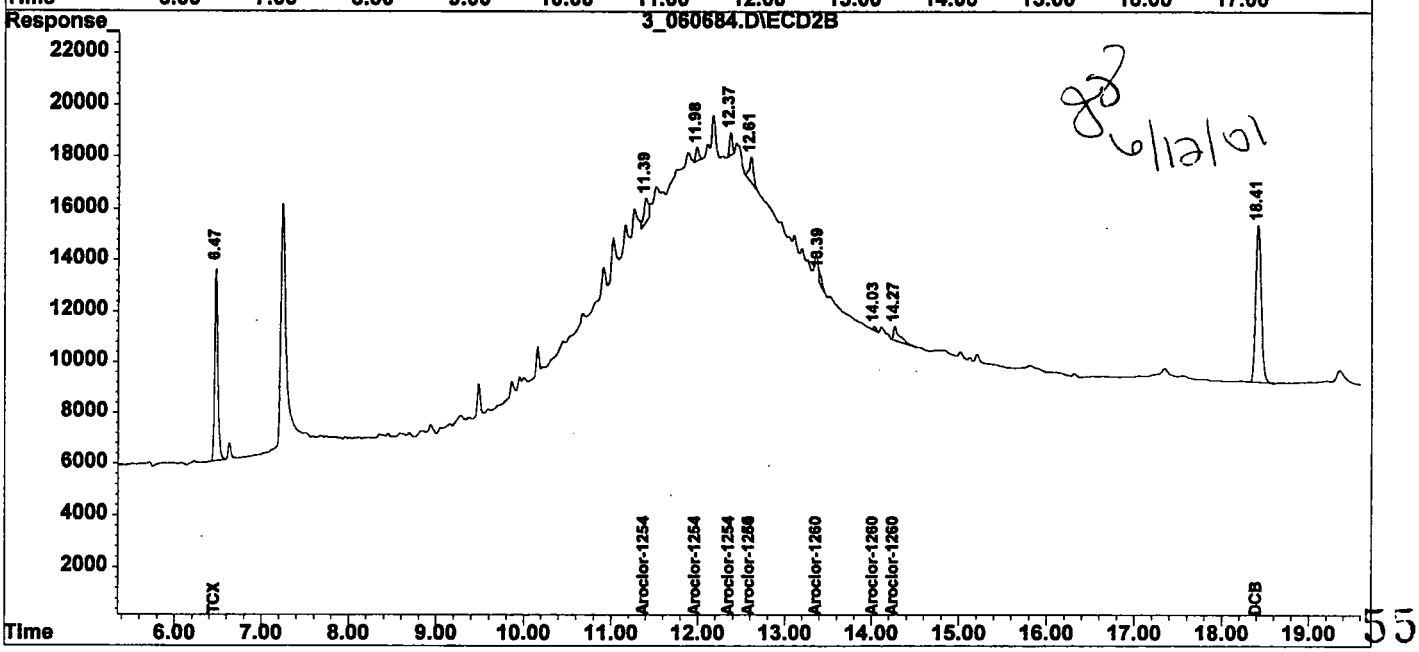
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060684.D\ECD1A.CH Vial: 78
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060684.D\ECD2B.CH
Acq On : 08 Jun 2001 4:32 Operator: DDC
Sample : 46663.16 *E30D6 * 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: Jun 8 14:18 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

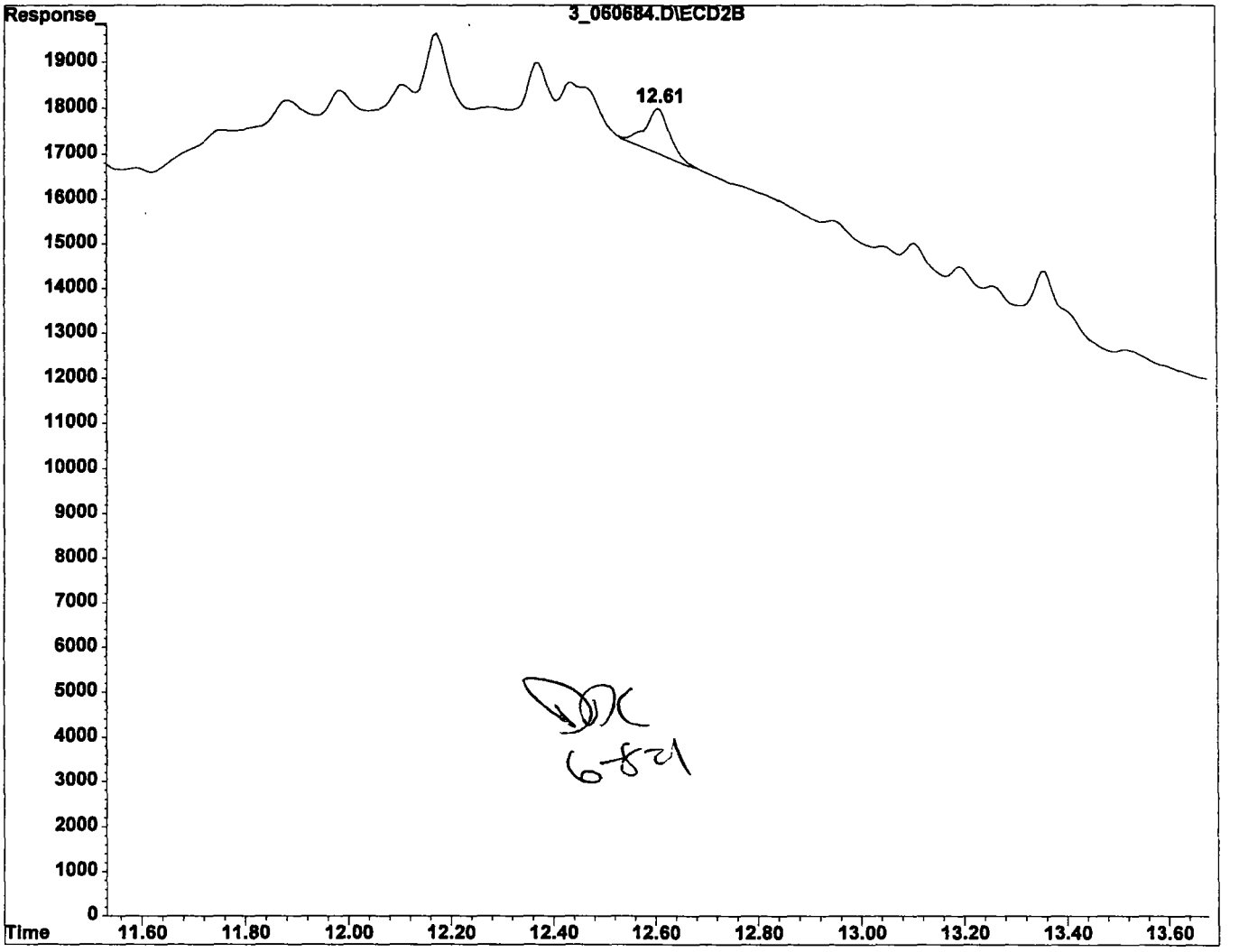




6/12/01

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\06_06_01\3_060684.D
Date Acquired: 08 Jun 2001 4:32
Inst: HP_03 Operator ID: DDC
Name: 46663.16 *E30D6 *
Misc: *EPA*30.3G/5.0ML*62
Method: F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title: PCB/TOXAPHENE
Quant Time: Jun 8 14:18 2001 Quant Results File: XPCBF02.RES

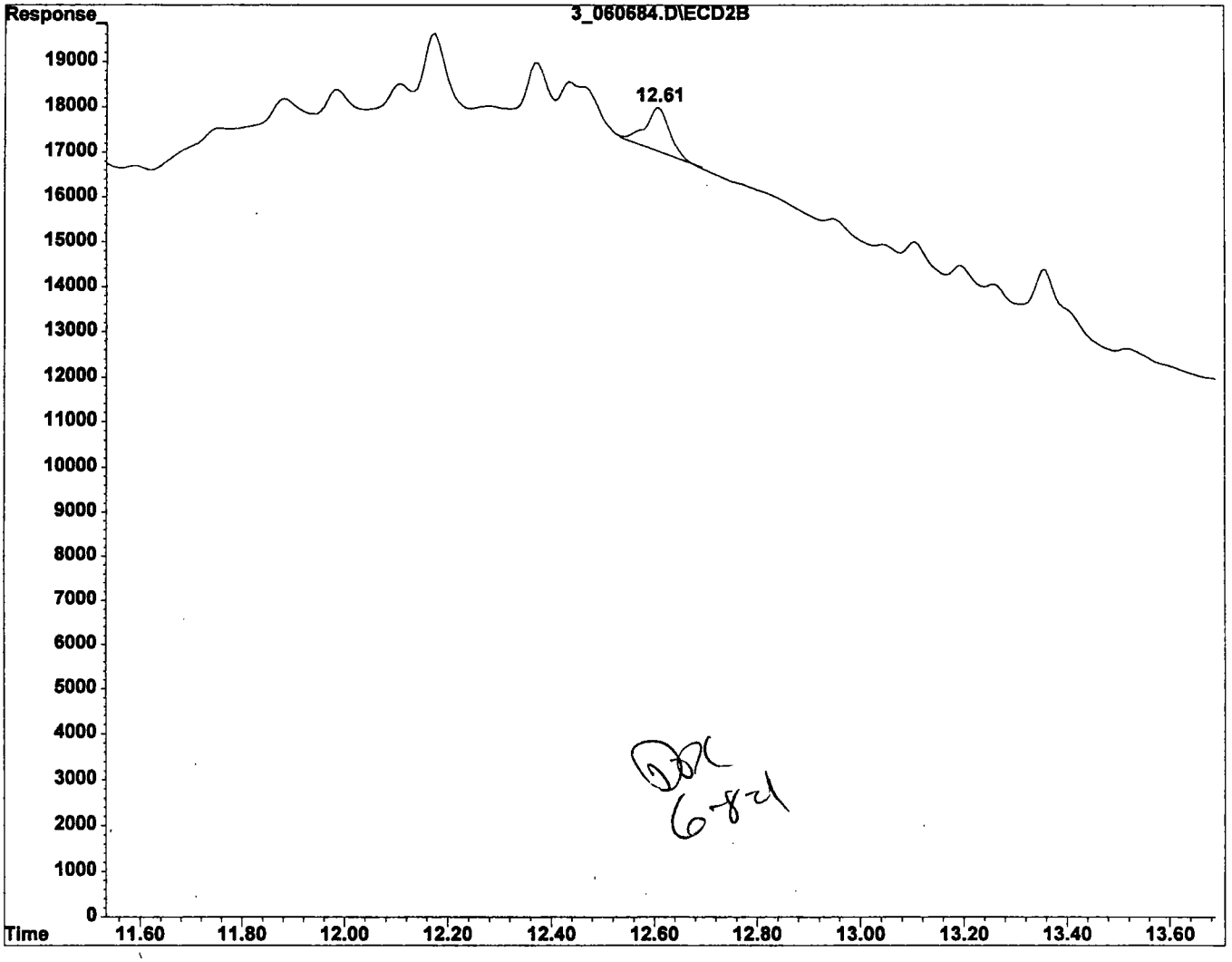


Aroclor-1254 {5} #2 12.61min area: 32048 m

Integration Time Range: 12.53 - 12.68

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\06_06_01\3_060684.D
Date Acquired: 08 Jun 2001 4:32
Inst: HP_03 Operator ID: DDC
Name: 46663.16 *E30D6 *
Misc: *EPA*30.3G/5.0ML*62
Method: F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title: PCB/TOXAPHENE
Quant Time: Jun 8 14:18 2001 Quant Results File: XPCBF02.RES

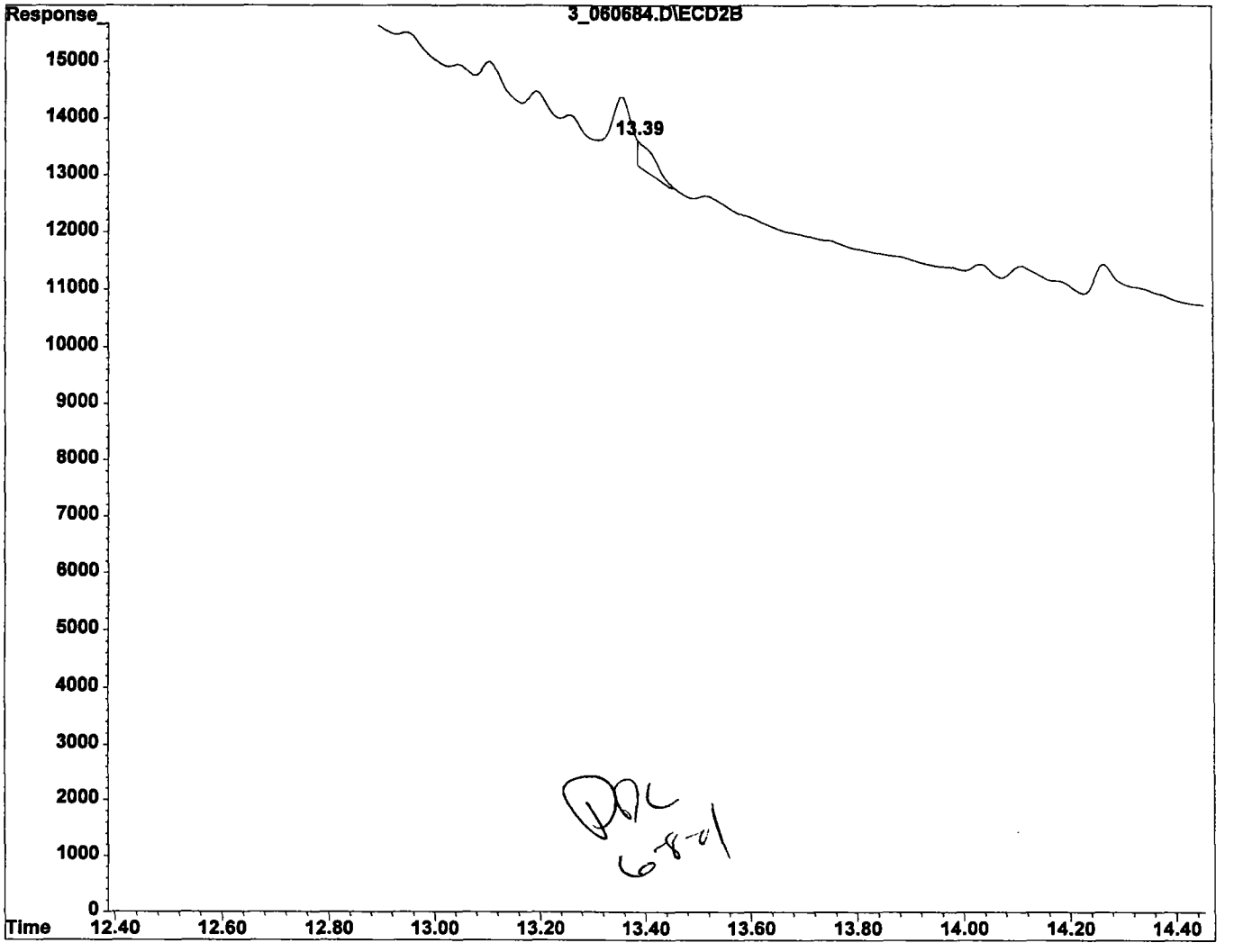


Aroclor-1260 #2 12.61min area: 29932 m

Integration Time Range: 12.54 - 12.69

MANUAL INTEGRATION REPORT

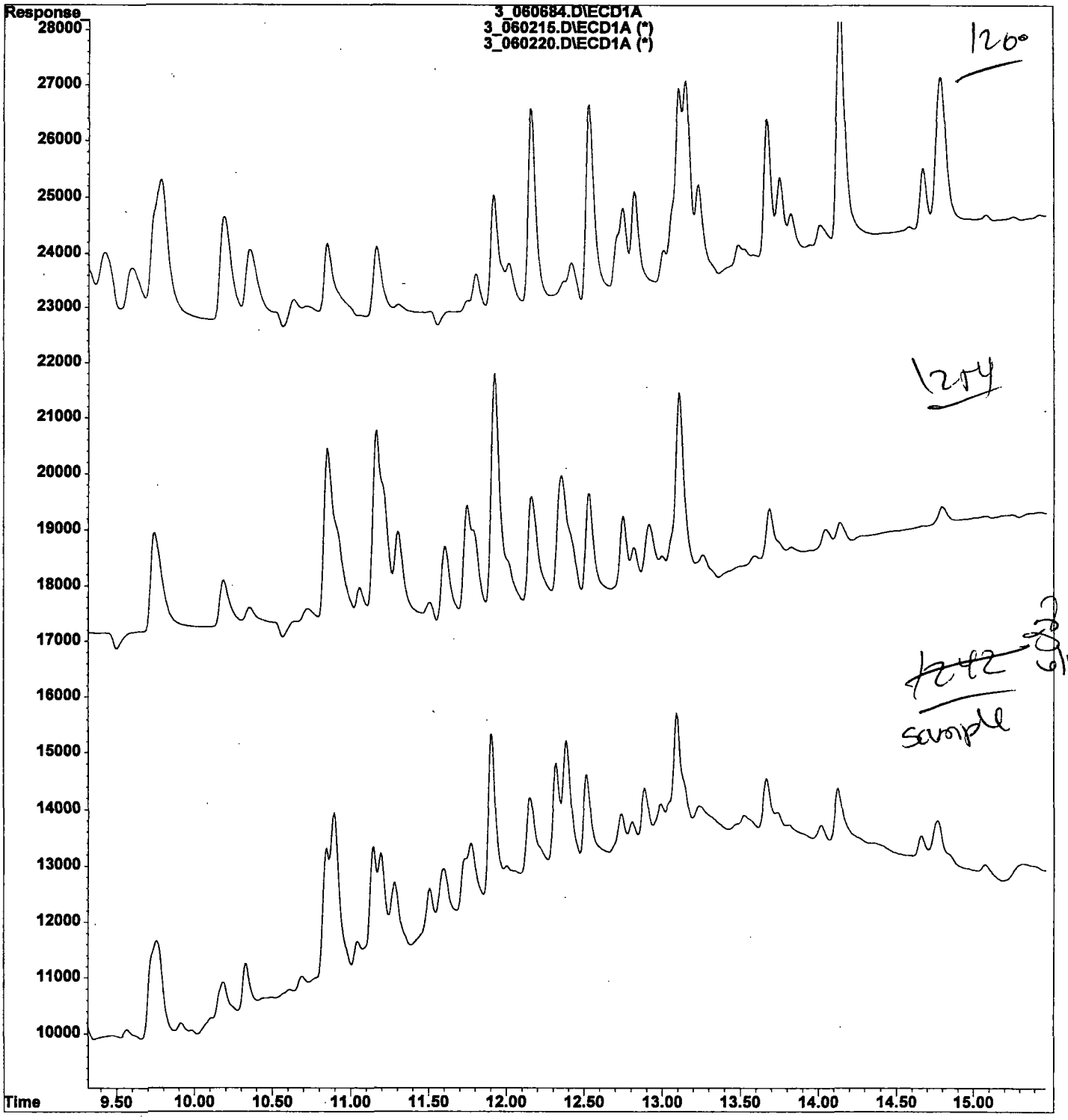
Data File: F:\HPCHEM\HP\3\DATA\06_06_01\3_060684.D
Date Acquired: 08 Jun 2001 4:32
Inst: HP_03 Operator ID: DDC
Name: 46663.16 *E30D6 *
Misc: *EPA*30.3G/5.0ML*62
Method: F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title: PCB/TOXAPHENE
Quant Time: Jun 8 14:18 2001 Quant Results File: XPCBF02.RES



Aroclor-1260 {2} #2 13.39min area: 9008 m

Integration Time Range: 13.39 - 13.45

File : F:\HPCHEM\HP\3\DATA\06_06_01\3_060684.D
Operator : DDC
Acquired : 08 Jun 2001 4:32 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 46663.16 *E30D6 *
Misc Info : *EPA*30.3G/5.0ML*62
Vial Number: 78



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30D7

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.17

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

% Moisture: 54 decanted: (Y/N) __ Date Received: 06/01/01

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

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

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	72	U
11104-28-2	Aroclor-1221	72	U
11141-16-5	Aroclor-1232	72	U
53469-21-9	Aroclor-1242	~~1100~~	~~E~~ 830 DJ
12672-29-6	Aroclor-1248	72	U
11097-69-1	Aroclor-1254	~~920~~	~~E~~ 1200 DJ
11096-82-5	Aroclor-1260	520	
Surrogate amount spiked		14.44	

TBS 6/28/01 TB 7/11/01

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060685.D\ECD1A.CH Vial: 79
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060685.D\ECD2B.CH
Acq On : 08 Jun 2001 4:57 Operator: DDC
Sample : 46663.17 *E30D7 * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*54 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 14:19 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	268301	109820	8.216	8.530
	Spiked Amount 14.445			Recovery	=	56.88%	59.05%
22)	S DCB	17.13	18.41	334287	208053	9.192	11.2
	Spiked Amount 14.445			Recovery	=	63.64%	77.54%
	Target Compounds:						
9)	L4 Aroclor-1242 {3}	9.37	9.70	152765	85965	159.9	903.8 #
10)	L4 Aroclor-1242 {4}	10.17	10.67	2234029	373239	2255.4 E	1377.5 E#
11)	L4 Aroclor-1242 {5}	10.69	11.02	346118	988548	798.2	2398.8 E#
	Sum Aroclor-1242			2732912	1447753	3213.4	4680.2
	Average Aroclor-1242					1071.148	1560.050
13)	L6 Aroclor-1254 {2}	11.59	11.39	935664	602063	1336.4 E	1805.8 E#
14)	L6 Aroclor-1254 {3}	12.32	11.98	1407210	406262	771.5	850.7
15)	L6 Aroclor-1254 {4}	12.74	0.00	572340	0	979.8	N.D. d #
16)	L6 Aroclor-1254 {5}	12.89	12.61	463390	821552	613.8	1304.8 E#
	Sum Aroclor-1254			3378603	1829876	3701.4	3961.3
	Average Aroclor-1254					925.361	1320.432
17)	L7 Aroclor-1260	12.15	12.47	1497888	486327	950.5	560.8 #
18)	L7 Aroclor-1260 {2}	12.52	12.61	1272972	821552	753.4	865.1
20)	L7 Aroclor-1260 {4}	0.00	14.04	0	152843	N.D. d	297.4 #
21)	L7 Aroclor-1260 {5}	14.13	14.27	746830	500119	325.5	344.0
	Sum Aroclor-1260			3517690	1960840	1465.6	1493.1
	Average Aroclor-1260					676.436	516.828

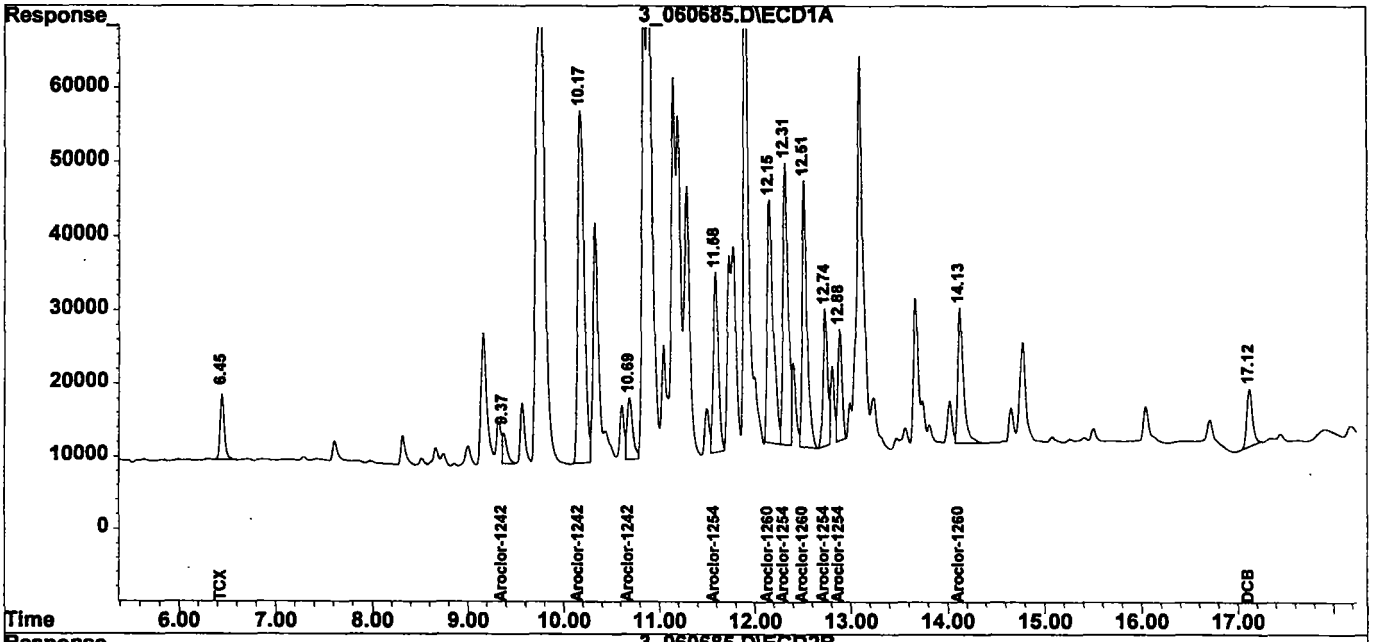
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

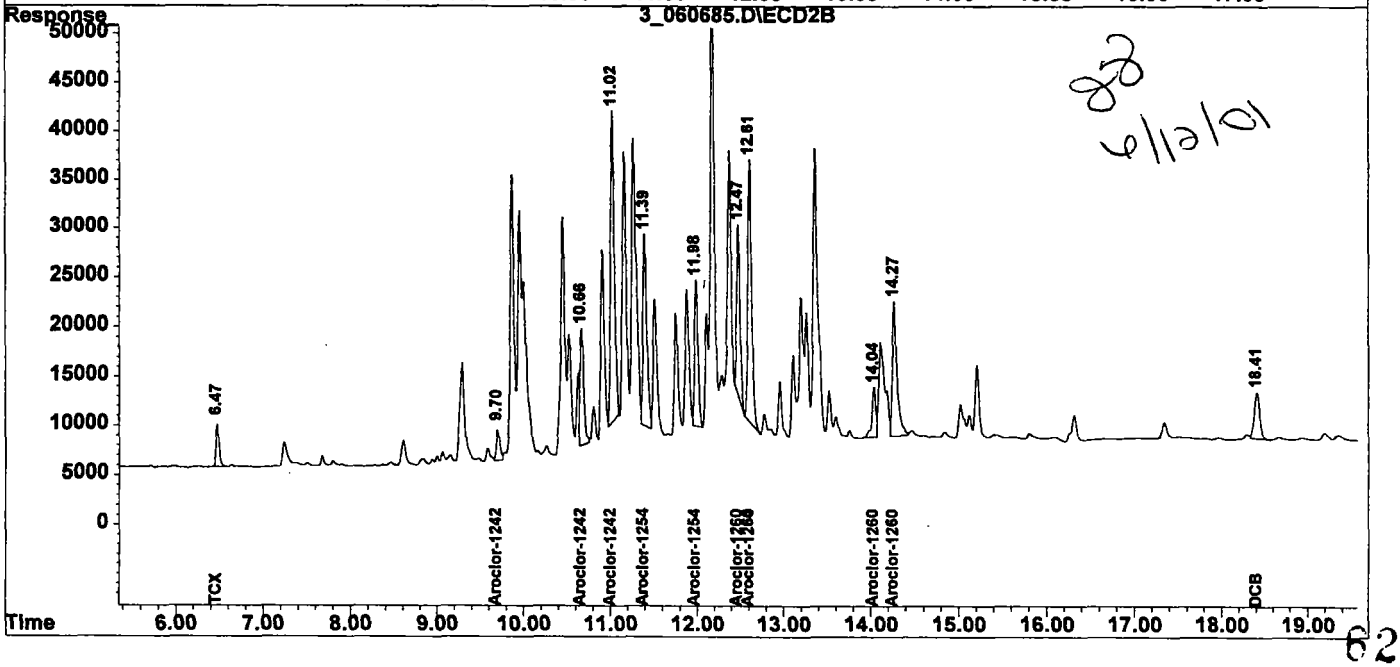
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060685.D\ECD1A.CH Vial: 79
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060685.D\ECD2B.CH
Acq On : 08 Jun 2001 4:57 Operator: DDC
Sample : 46663.17 *E30D7 * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*54 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 14:19 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B

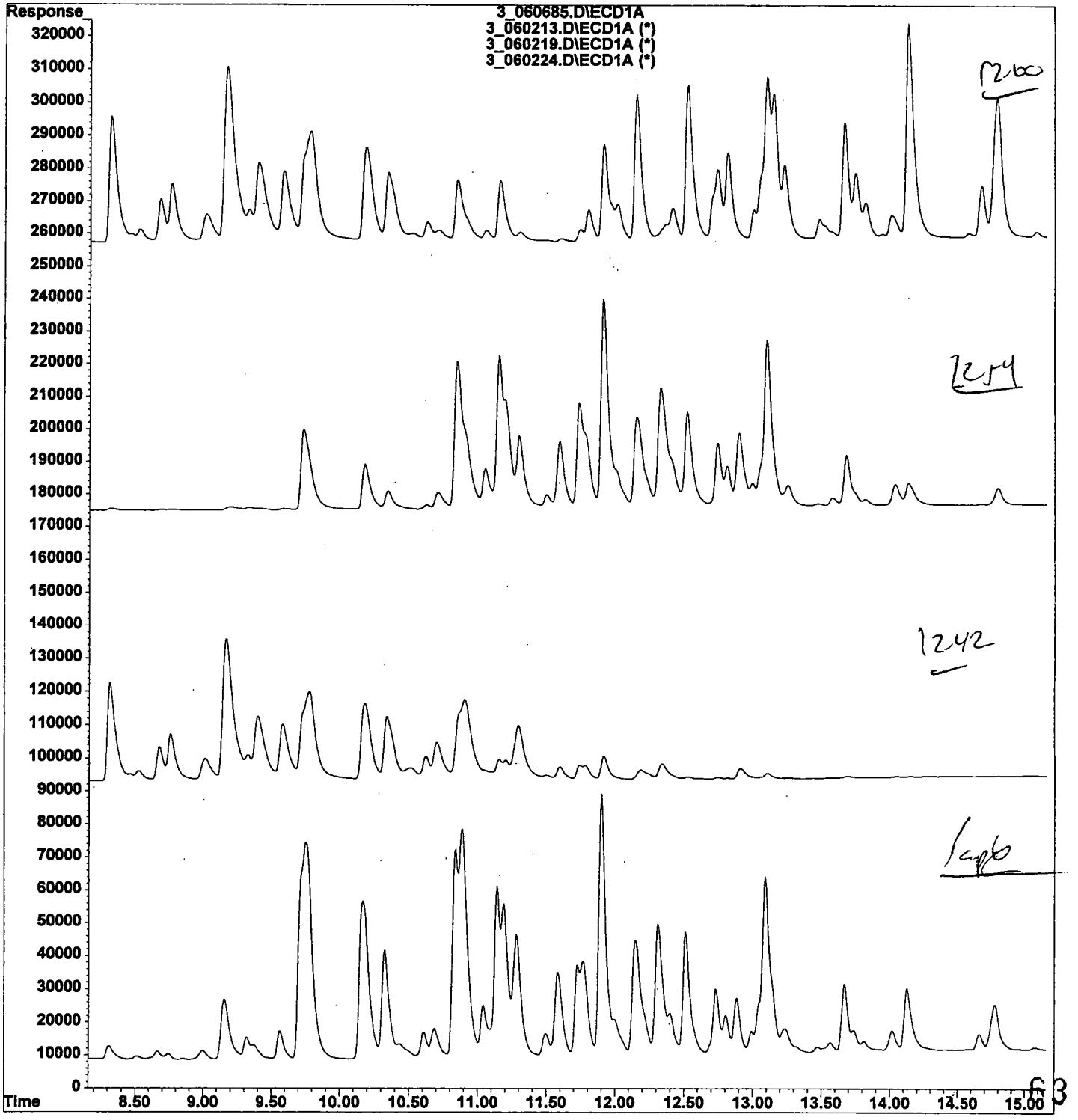




6/12/01

62

File : F:\HPCHEM\HP\3\DATA\06_06_01\3_060685.D
Operator : DDC
Acquired : 08 Jun 2001 4:57 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 46663.17
Misc Info :
Vial Number: 79



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30D7DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.17DL

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

% Moisture: 54 decanted: (Y/N) __ Date Received: 06/01/01

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

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/10/01

Injection Volume: 0.5(uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	720	U ~~J~~
11104-28-2	Aroclor-1221	720	U ~~J~~
11141-16-5	Aroclor-1232	720	U ~~J~~
53469-21-9	Aroclor-1242	830	~~D~~ J
12672-29-6	Aroclor-1248	720	U ~~J~~
11097-69-1	Aroclor-1254	1200	~~D~~ J
11096-82-5	Aroclor-1260	640	~~DJ~~ J
Surrogate amount spiked		14.44	

TBS 6/28/01

..\DATA\06_09_01\3_060950.D\ECD1A.CH Vial: 50
10 Jun 2001 8:39 Operator: DDC
Sample : 46663.17DL *E30D7DL * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*54 Dilution: 10.00
IntFile : events.e

Data File : F:\HPCHEM\HP\3\DATA\06_09_01\3_060950.D\ECD2B.CH Vial: 50
Acq On : 10 Jun 2001 8:39 Operator: DDC
Sample : 46663.17DL Inst : HP_03
Misc : Dilution: 10.00
IntFile : events2.e
Quant Time: Jun 11 10:55 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.48	27653	10937	7.776	8.040	
	Spiked Amount 14.445			Recovery	=	53.83%	55.66%	
22)	S DCB	17.12	18.42	55381	22533	17.2	13.7	
	Spiked Amount 14.445			Recovery	=	119.08%	94.85%	
	Target Compounds:							
8)	L4 Aroclor-1242 {2}	9.01f	9.16	7808	1388	320.3	58.9	#
9)	L4 Aroclor-1242 {3}	9.57	9.71	26718	9081	312.2	416.8	#
10)	L4 Aroclor-1242 {4}	10.19	10.68	224222	64135	2095.9	2276.1	
11)	L4 Aroclor-1242 {5}	10.71f	0.00	22852	0	578.0	N.D. d	#
	Sum Aroclor-1242			281600	74604	3306.4	2751.8	
	Average Aroclor-1242					826.592	917.272	
13)	L6 Aroclor-1254 {2}	11.60	11.41	82771	84189	1383.7	1794.9	#
14)	L6 Aroclor-1254 {3}	12.35	12.00	157431	79139	1295.8	1826.2	#
15)	L6 Aroclor-1254 {4}	12.74	12.19	53613	182334	1057.9	1627.6	#
16)	L6 Aroclor-1254 {5}	13.10	12.62	212153	107439	1021.8	1535.0	#
	Sum Aroclor-1254			505969	453101	4759.2	6783.7	
	Average Aroclor-1254					1189.797	1695.914	
17)	L7 Aroclor-1260	12.16	12.48	147920	101169	833.1	1040.3	
18)	L7 Aroclor-1260 {2}	12.53	12.62	138719	107439	796.5	1040.4	#
19)	L7 Aroclor-1260 {3}	13.10f	0.00	212153	0	759.0	N.D. d	#
20)	L7 Aroclor-1260 {4}	13.68	14.05	96510	14163	1017.2	216.6	#
21)	L7 Aroclor-1260 {5}	14.13	14.28	105445	42293	472.7	272.6	#
	Sum Aroclor-1260			700747	265064	28011.9	18560.9	
	Average Aroclor-1260					775.707	642.487	

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

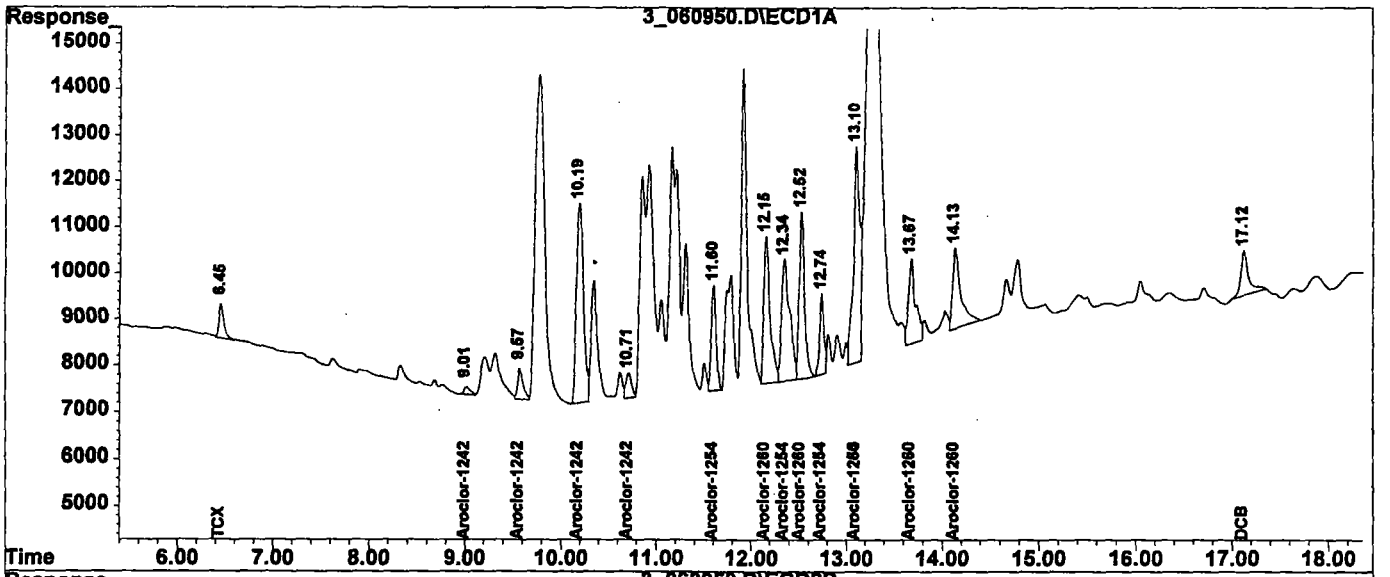
Chromatographic Report

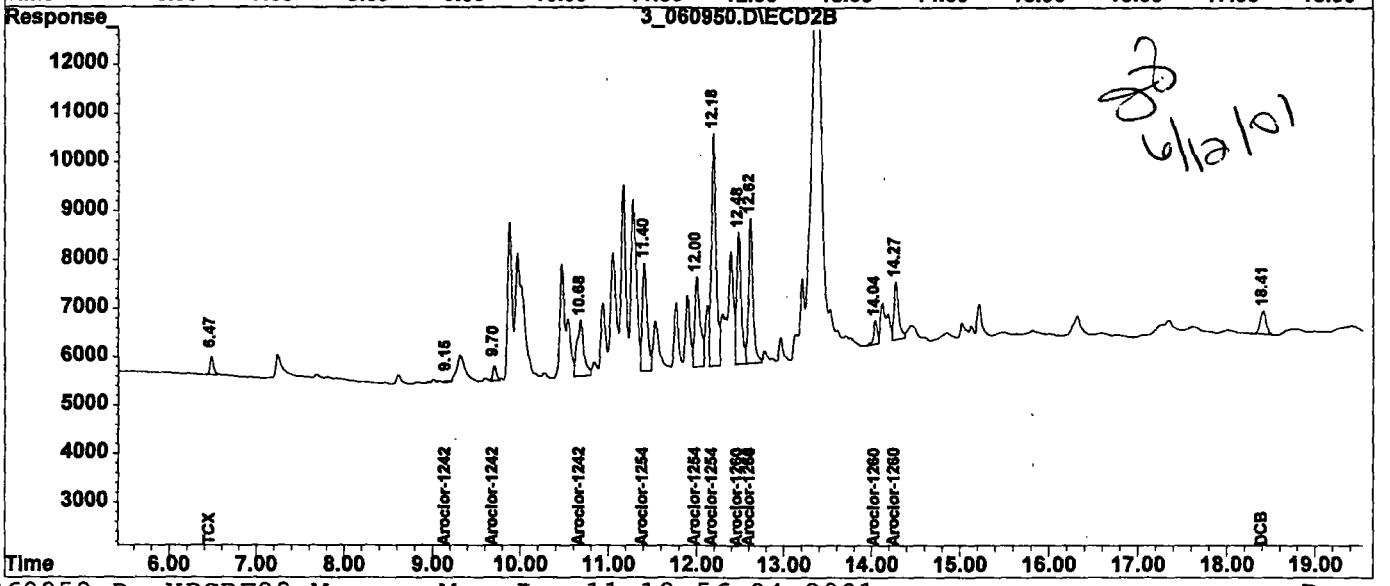
Data File : F:\HPCHEM\HP\3\DATA\06_09_01\3_060950.D\ECD1A.CH Vial: 50
Acq On : 10 Jun 2001 8:39 Operator: DDC
Sample : 46663.17DL *E30D7DL * Inst : HP_03
Misc : *EPA*30.1G/5.0ML*54 Dilution: 10.00
IntFile : events.e

Data File : F:\HPCHEM\HP\3\DATA\06_09_01\3_060950.D\ECD2B.CH Vial: 50
Acq On : 10 Jun 2001 8:39 Operator: DDC
Sample : 46663.17DL Inst : HP_03
Misc : Dilution: 10.00
IntFile : events2.e
Quant Time: Jun 11 10:55 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

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1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30D8

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.18

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

% Moisture: 49 decanted: (Y/N) __ Date Received: 06/01/01

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

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

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	63	U
11104-28-2	Aroclor-1221	63	U
11141-16-5	Aroclor-1232	63	U
53469-21-9	Aroclor-1242	390	~~U~~
12672-29-6	Aroclor-1248	63	U
11097-69-1	Aroclor-1254	250	~~U~~
11096-82-5	Aroclor-1260	180	~~U~~
Surrogate amount spiked		12.70	

TBS 6/22/01 TB 7/11/01

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060692.D\ECD1A.CH Vial: 86
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060692.D\ECD2B.CH
Acq On : 08 Jun 2001 7:50 Operator: DDC
Sample : 46663.18 *E30D8 * Inst : HP_03
Misc : *EPA*30.9G/5.0ML*49 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 14:05 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	425272	168906	11.4	11.5	
	Spiked Amount 12.691			Recovery	=	89.83%	90.61%	
22)	S DCB	17.12	18.41	514768	279407	12.4	13.2	
	Spiked Amount 12.691			Recovery	=	97.71%	104.01%	
	Target Compounds:							
9)	L4 Aroclor-1242 {3}	9.38	9.70	117786	45405	108.3	419.4	#
10)	L4 Aroclor-1242 {4}	10.17	10.67	900478	100999	798.7	327.5	#
11)	L4 Aroclor-1242 {5}	10.69	11.02	125264	295965	253.8	631.0	#
	Sum Aroclor-1242			1143528	442369	1160.8	1377.9	
	Average Aroclor-1242					386.947	459.314	
13)	L6 Aroclor-1254 {2}	11.59	11.40	328791	219244	412.6	577.8	#
14)	L6 Aroclor-1254 {3}	12.32	11.99	408821	156218	196.9	287.4	#
15)	L6 Aroclor-1254 {4}	12.74	12.37	185803	313895	279.5	322.7	
16)	L6 Aroclor-1254 {5}	12.89	12.61	111491	281516	129.7	392.8	#
	Sum Aroclor-1254			1034906	970874	1018.7	1580.7	
	Average Aroclor-1254					254.685	395.183	
17)	L7 Aroclor-1260	12.16	12.48	491765	252783	274.2	256.1	
18)	L7 Aroclor-1260 {2}	12.52	12.61	355261	281516	184.7	260.5	#
21)	L7 Aroclor-1260 {5}	14.13	14.27	206189	128373	78.9	77.6	
	Sum Aroclor-1260			1053215	662672	341.3	377.0	
	Average Aroclor-1260					179.281	198.047	

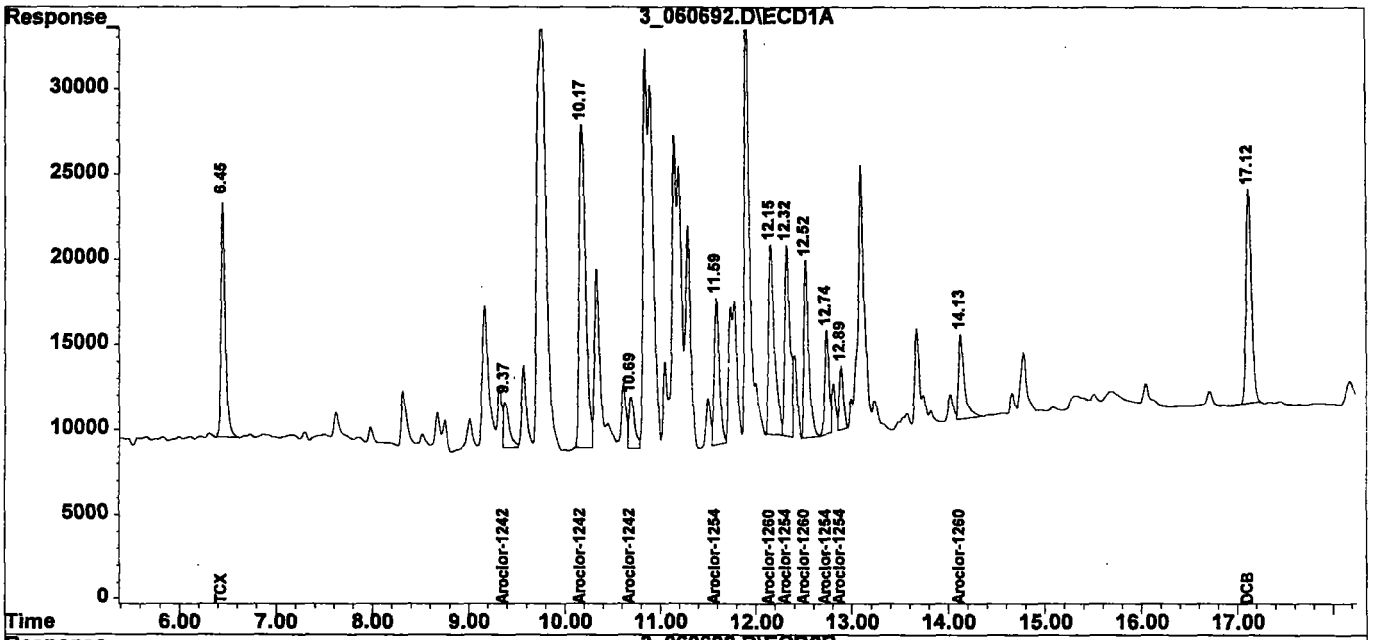
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

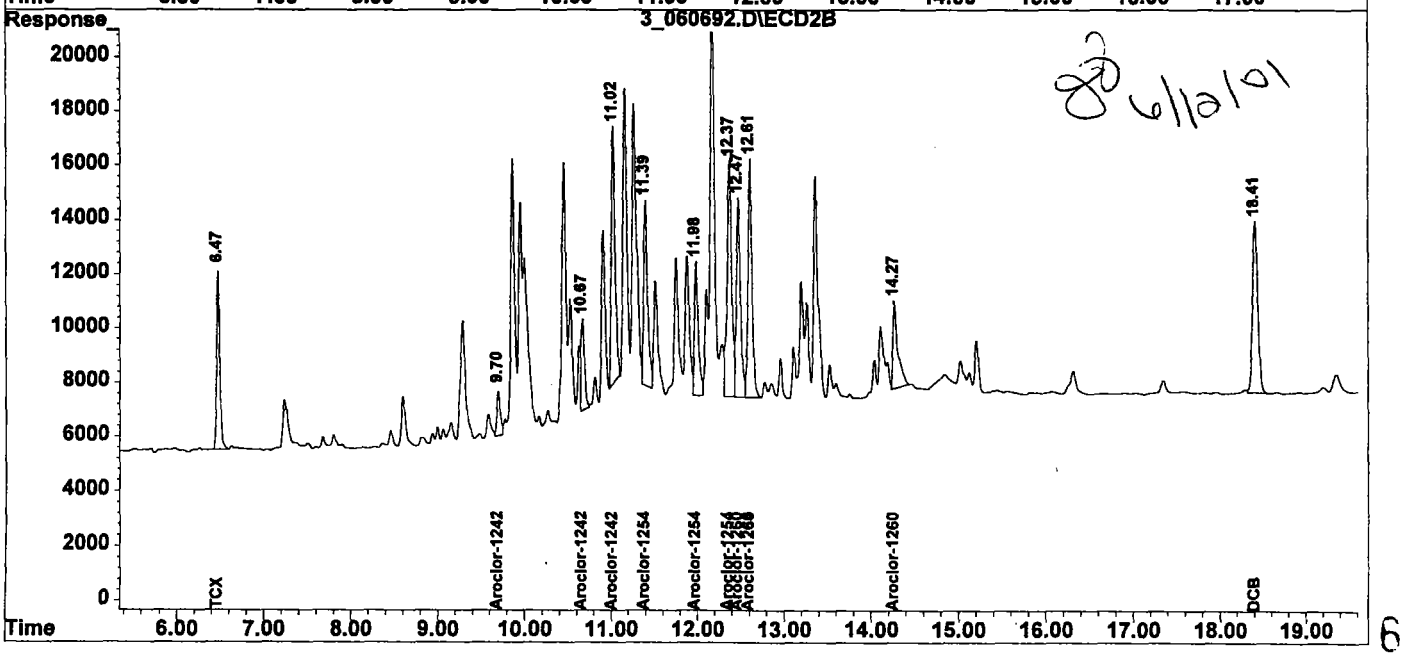
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060692.D\ECD1A.CH Vial: 86
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060692.D\ECD2B.CH
Acq On : 08 Jun 2001 7:50 Operator: DDC
Sample : 46663.18 *E30D8 * Inst : HP_03
Misc : *EPA*30.9G/5.0ML*49 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 14:05 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

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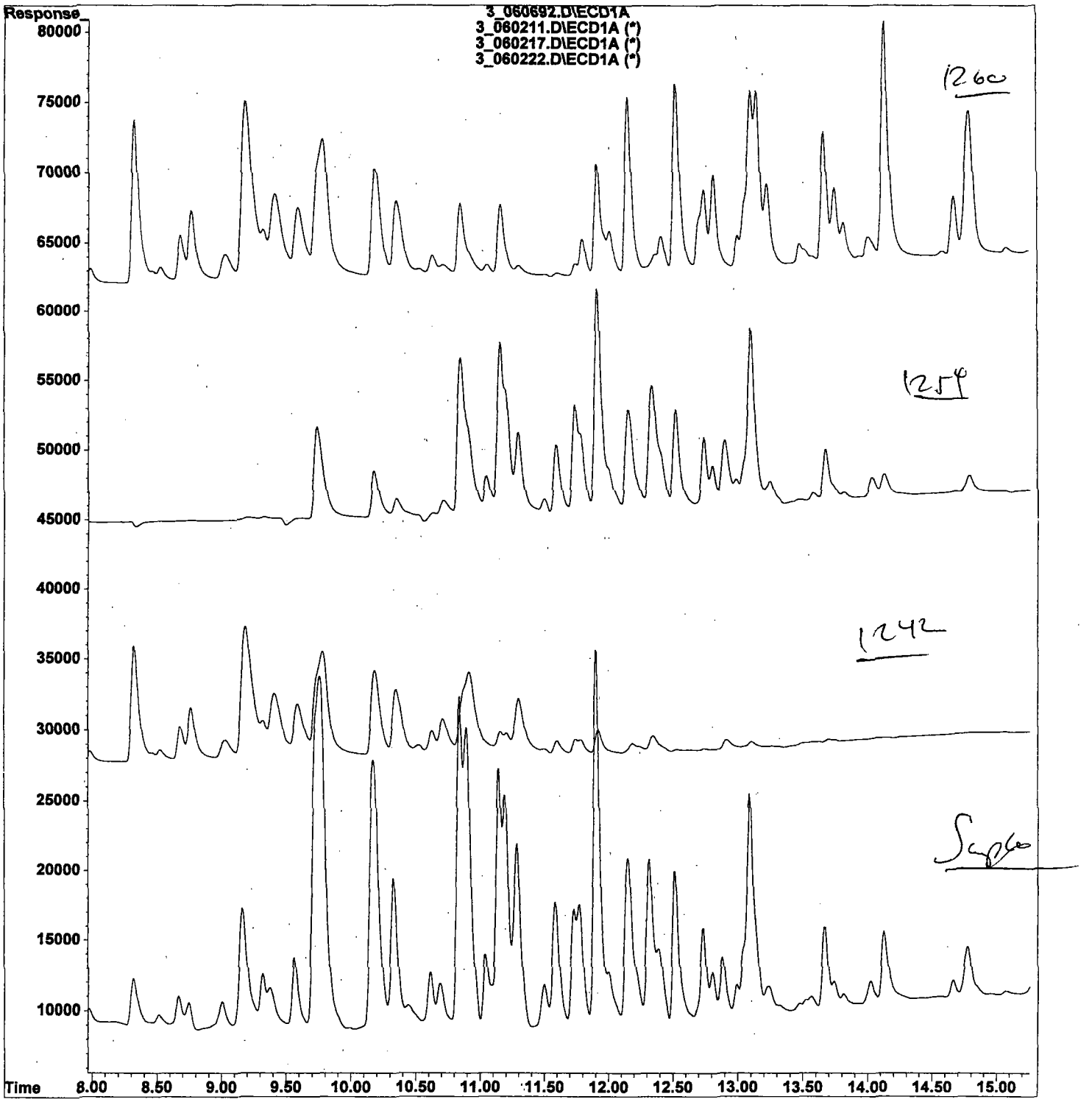
File : F:\HPCHEM\HP\3\DATA\06_06_01\3_060692.D
Operator : DDC
Acquired : 08 Jun 2001 7:50 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 46663.18
Misc Info :
Vial Number: 86



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30D9

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.19

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

% Moisture: 33 decanted: (Y/N) __ Date Received: 06/01/01

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

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

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	48	U
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	

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060693.D\ECD1A.CH Vial: 87
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060693.D\ECD2B.CH
Acq On : 08 Jun 2001 8:14 Operator: DDC
Sample : 46663.19 *E30D9 * 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: Jun 8 14:06 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.48	409365	164000	8.466	8.603
	Spiked Amount 9.755			Recovery	=	86.78%	88.19%
22)	S DCB	17.13	18.42	515810	275626	9.579	10.0
	Spiked Amount 9.755			Recovery	=	98.19%	102.51%

Target Compounds:

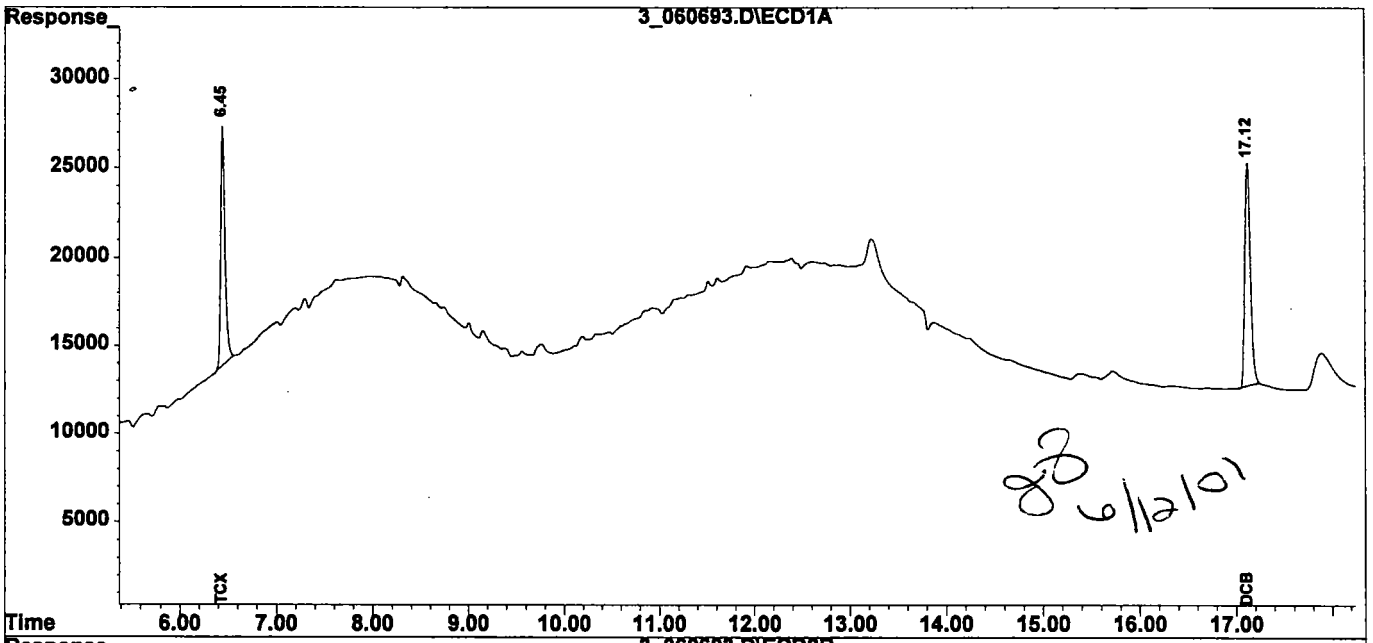
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

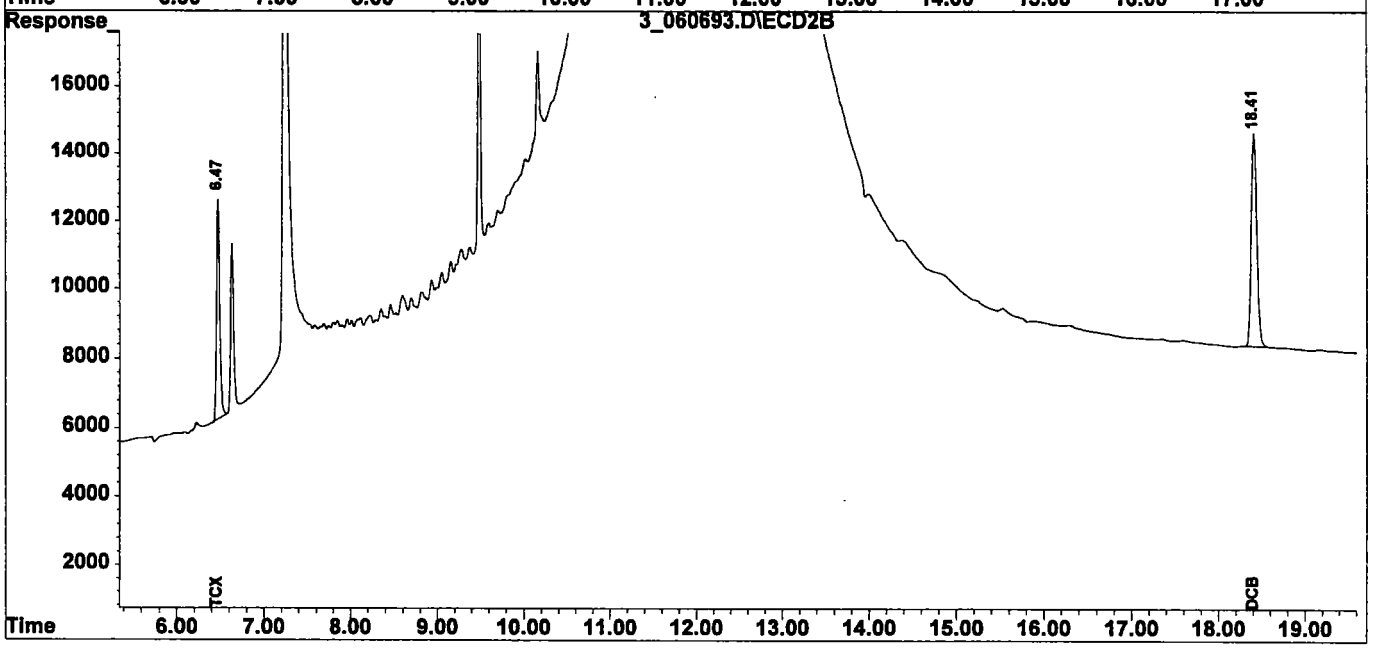
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060693.D\ECD1A.CH Vial: 87
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060693.D\ECD2B.CH
Acq On : 08 Jun 2001 8:14 Operator: DDC
Sample : 46663.19 *E30D9 * 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: Jun 8 14:06 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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\06_06_01\3_060693.D\ECD1A.CH Vial: 87
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060693.D\ECD2B.CH
Acq On : 08 Jun 2001 8:14 Operator: DDC
Sample : 46663.19 *E30D9 * 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: Jun 8 14:06 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.48	409365	164000	8.466	8.603
	Spiked Amount 9.755			Recovery	=	86.78%	88.19%
22)	S DCB	17.13	18.42	515810	275626	9.579	10.0
	Spiked Amount 9.755			Recovery	=	98.19%	102.51%

Target Compounds:

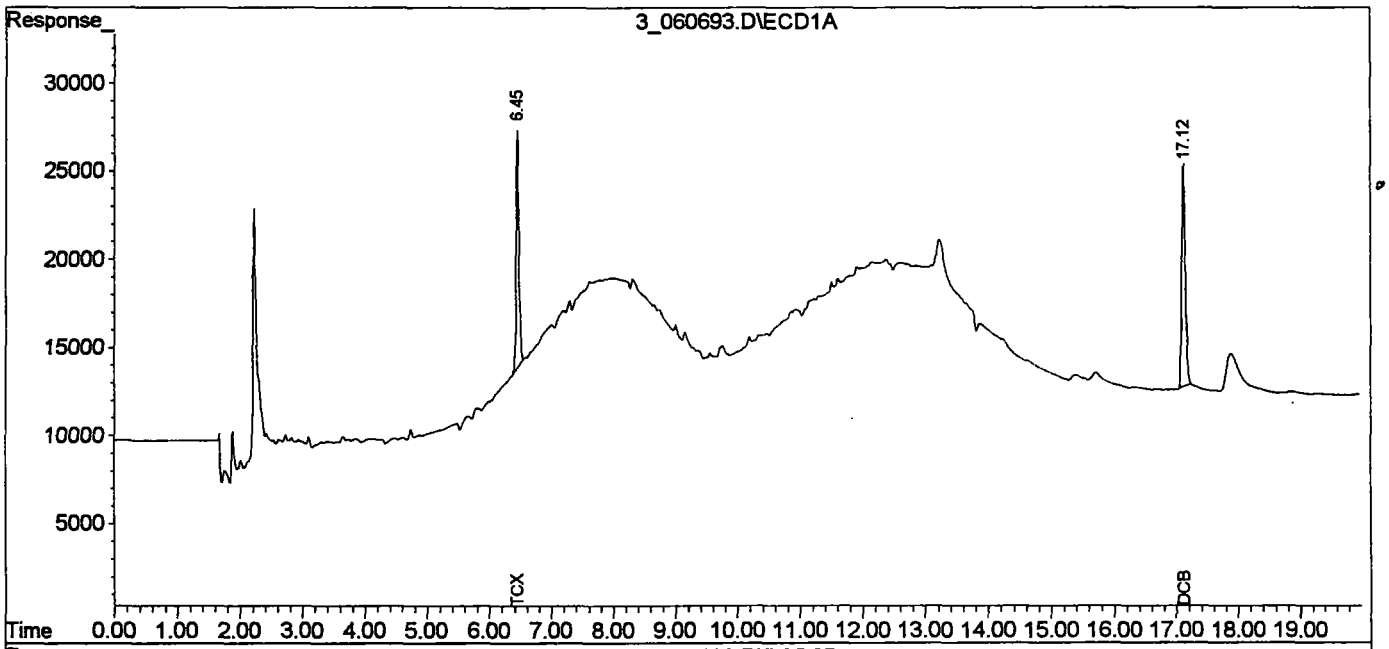
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

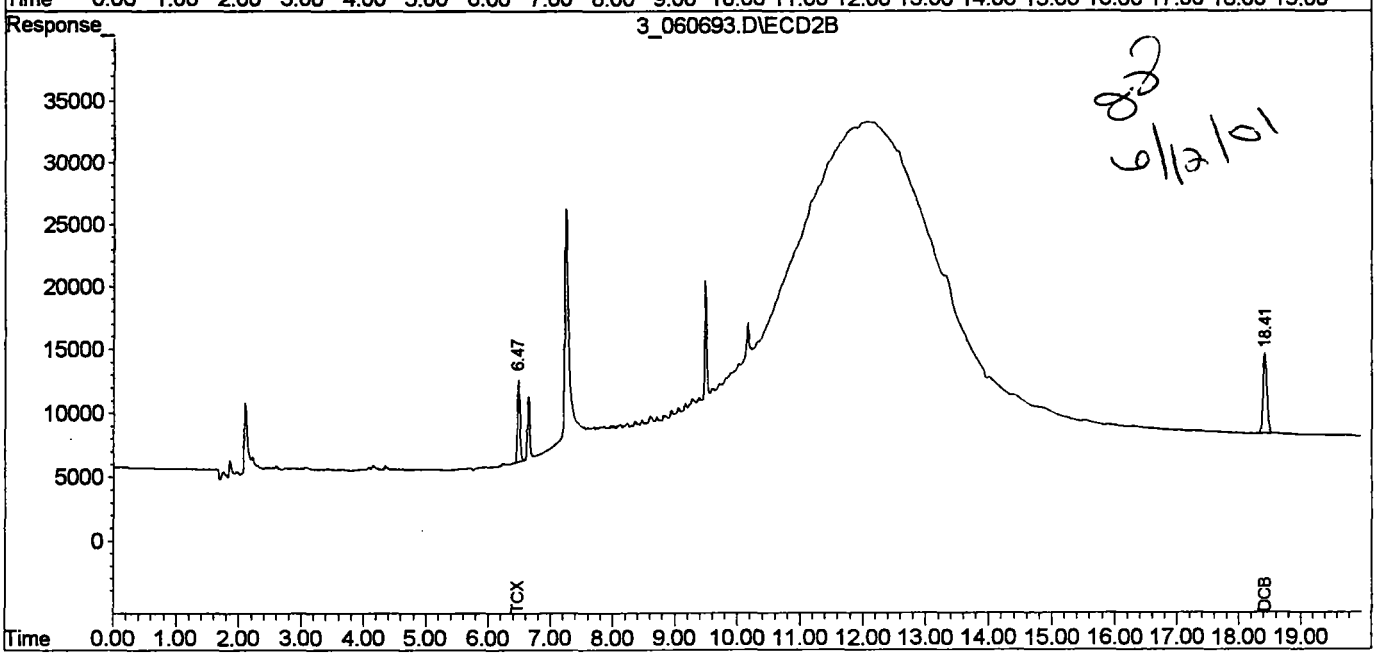
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060693.D\ECD1A.CH Vial: 87
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060693.D\ECD2B.CH
Acq On : 08 Jun 2001 8:14 Operator: DDC
Sample : 46663.19 *E30D9 * 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: Jun 8 14:06 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





8.2
6/12/01

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1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30E0

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.20

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

% Moisture: 28 decanted: (Y/N) __ Date Received: 06/01/01

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

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

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	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	9.26	

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060694.D\ECD1A.CH Vial: 88
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060694.D\ECD2B.CH
Acq On : 08 Jun 2001 8:49 Operator: DDC
Sample : 46663.20 *E30E0 * Inst : HP_03
Misc : *EPA*30G/5.0ML*28 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 14:06 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.46	6.48	352777	135011	6.925	6.722
	Spiked Amount 9.259			Recovery	=	74.79%	72.60%
22)	S DCB	17.14	18.42	420546	225842	7.413	7.813
	Spiked Amount 9.259			Recovery	=	80.06%	84.38%

Target Compounds:

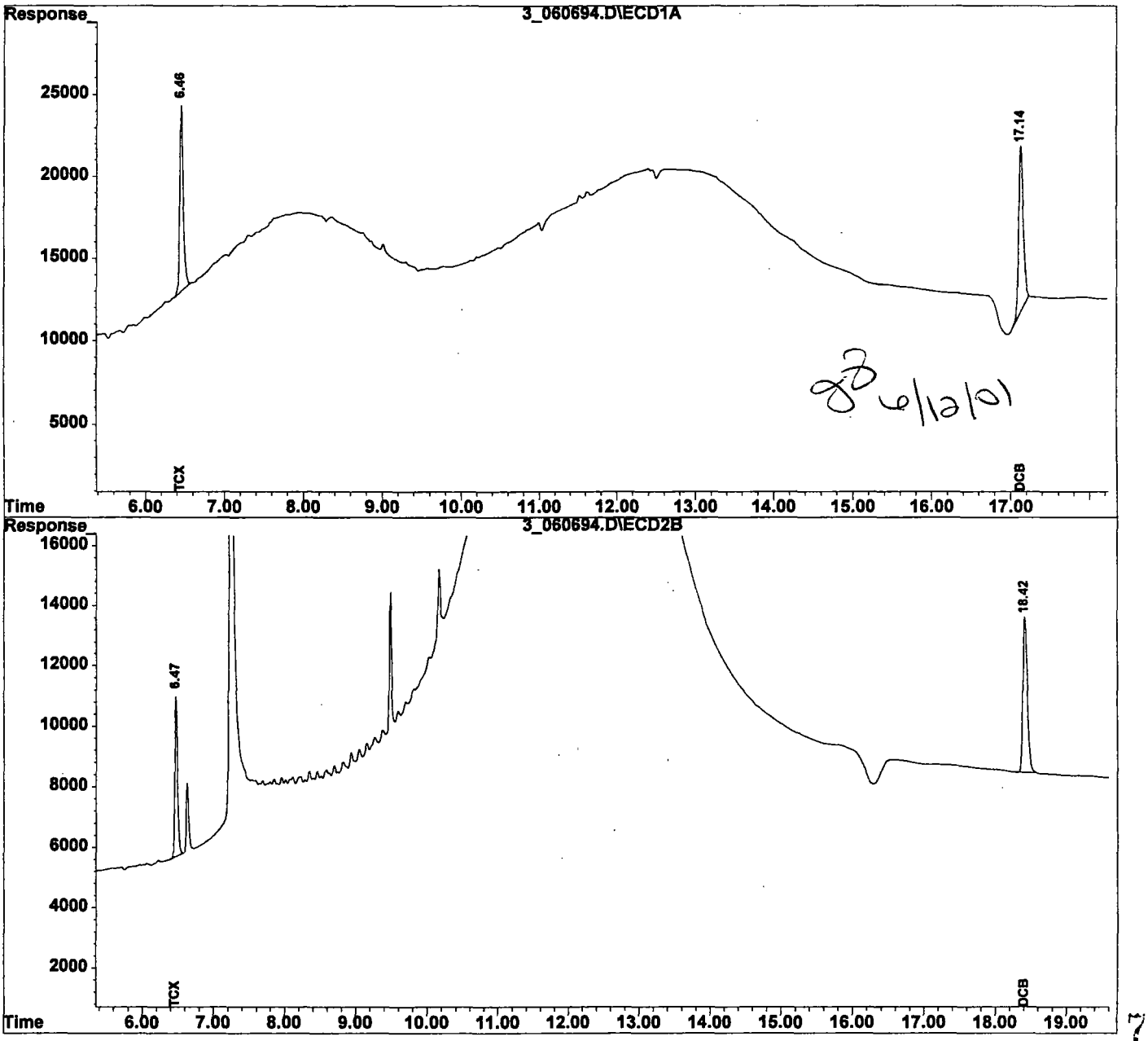
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060694.D\ECD1A.CH Vial: 88
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060694.D\ECD2B.CH
Acq On : 08 Jun 2001 8:49 Operator: DDC
Sample : 46663.20 *E30E0 * Inst : HP_03
Misc : *EPA*30G/5.0ML*28 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 14:06 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B



6/12/01

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Quantitation Report

```
Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060694.D\ECD1A.CH Vial: 88
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060694.D\ECD2B.CH
Acq On    : 08 Jun 2001   8:49                        Operator: DDC
Sample    : 46663.20  *E30E0  *                       Inst    : HP_03
Misc      : *EPA*30G/5.0ML*28                         Dilution: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e
Quant Time: Jun  8 14:06 2001  Quant Results File: XPCBF02.RES

Method       : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path   : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update  : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj.      : 0.5uL
Signal #1 Phase : DB-17              Signal #2 Phase: DB-1701
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	6.46	6.48	352777	135011	6.925	6.722
	Spiked Amount 9.259			Recovery	=	74.79%	72.60%
22)	S DCB	17.14	18.42	420546	225842	7.413	7.813
	Spiked Amount 9.259			Recovery	=	80.06%	84.38%
	Target Compounds:						

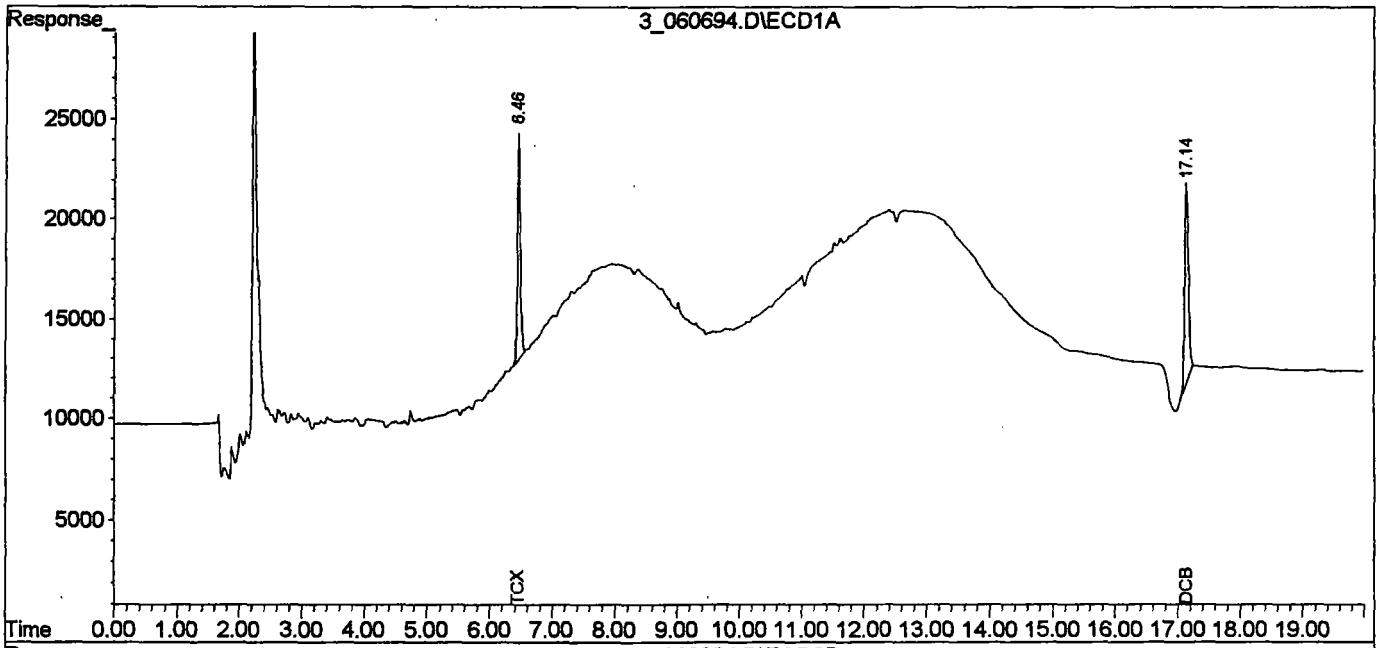
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

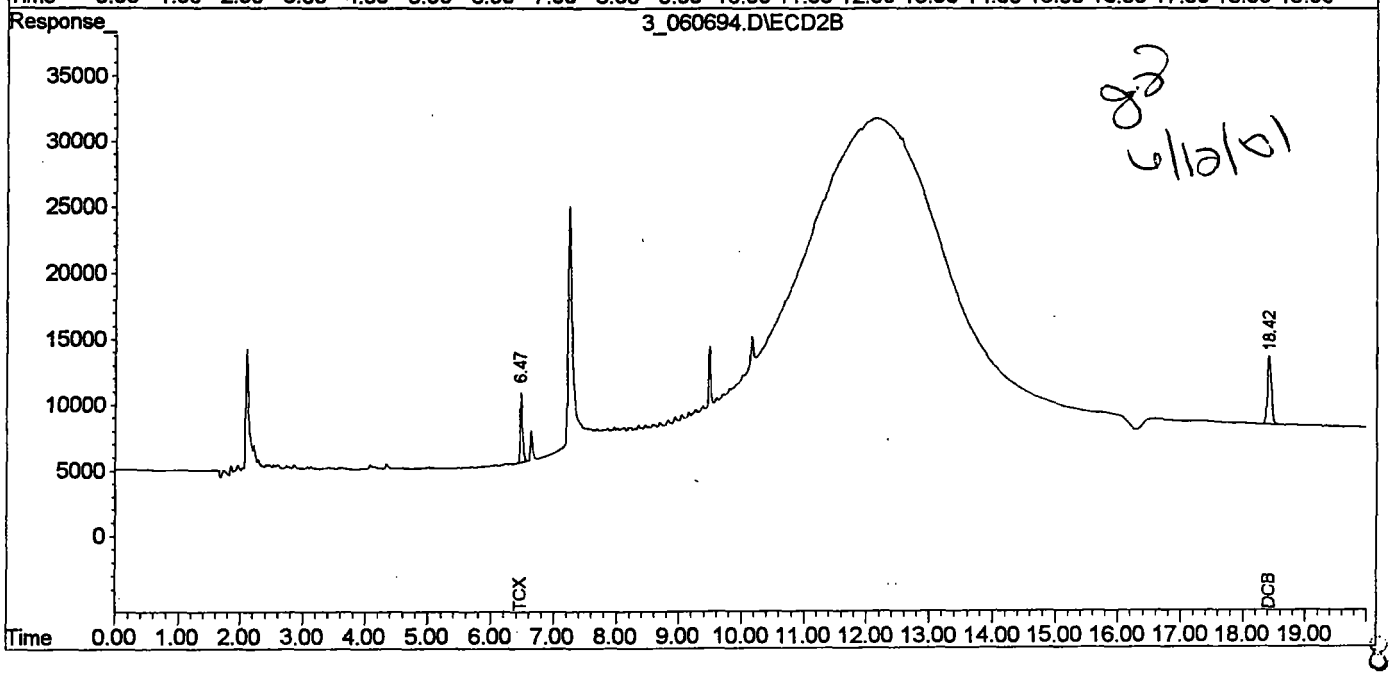
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060694.D\ECD1A.CH Vial: 88
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060694.D\ECD2B.CH
Acq On : 08 Jun 2001 8:49 Operator: DDC
Sample : 46663.20 *E30E0 * Inst : HP_03
Misc : *EPA*30G/5.0ML*28 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 14:06 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30E1

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.21

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

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

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

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

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	79	UJ
11104-28-2	Aroclor-1221	79	UJ
11141-16-5	Aroclor-1232	79	UJ
53469-21-9	Aroclor-1242	~~2500~~	~~EPJ~~ 1900 DJ
12672-29-6	Aroclor-1248	79	UJ
11097-69-1	Aroclor-1254	~~3500~~	~~EPJ~~ 7200 DJ
11096-82-5	Aroclor-1260	~~2600~~	~~EPJ~~ 3300 DJ
Surrogate amount spiked		16.04	

TBS 6/28/01 TB 7/11/01

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060695.D\ECD1A.CH Vial: 89
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060695.D\ECD2B.CH
Acq On : 08 Jun 2001 9:13 Operator: DDC
Sample : 46663.21 *E30E1 * Inst : HP_03
Misc : *EPA*30.4G/5.0ML*59 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 14:08 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.48	346929	161510	11.8	13.9
	Spiked Amount 16.046			Recovery	=	73.54%	86.62%
22)	S DCB	17.13	18.41	602007	346496	18.4	20.8
	Spiked Amount 16.046			Recovery	=	114.67%	129.63%
	Target Compounds:						
7)	L4 Aroclor-1242	8.75	0.00	502979	0	1002.3	N.D. d #
8)	L4 Aroclor-1242 {2}	0.00	9.15	0	242979	N.D. d	1171.5 #
9)	L4 Aroclor-1242 {3}	9.37	9.70	929501	474043	1080.7	5536.6 E#
11)	L4 Aroclor-1242 {5}	10.68	11.02	2151474	4155212	5511.6 E	11201.1 E#
	Sum Aroclor-1242			3583954	4872234	7594.6	17909.2
	Average Aroclor-1242					2531.517	5969.747
13)	L6 Aroclor-1254 {2}	11.58	11.39	3161238	1905953	5016.0 E	6350.6 E#
14)	L6 Aroclor-1254 {3}	12.31	11.98	4656239	1660185	2835.7 E	3861.7 E#
15)	L6 Aroclor-1254 {4}	12.74	12.37	2029917	3639553	3860.2 E	4731.2 E
16)	L6 Aroclor-1254 {5}	12.88	12.61	1664826	3839753	2449.6 E	6774.5 E#
	Sum Aroclor-1254			11512220	11045444	14161.5	21718.0
	Average Aroclor-1254					3540.376	5429.494
17)	L7 Aroclor-1260	12.15	12.47	4954763	2780250	3492.6 E	3561.5 E
18)	L7 Aroclor-1260 {2}	12.52	12.61	4352868	3839753	2861.8 E	4491.6 E#
20)	L7 Aroclor-1260 {4}	0.00	14.04	0	523308	N.D. d	1131.2 #
21)	L7 Aroclor-1260 {5}	14.13	14.27	2932249	2080871	1419.5 E	1590.0 E
	Sum Aroclor-1260			12239880	9224182	6237.1	8644.3
	Average Aroclor-1260					2591.302	2693.568

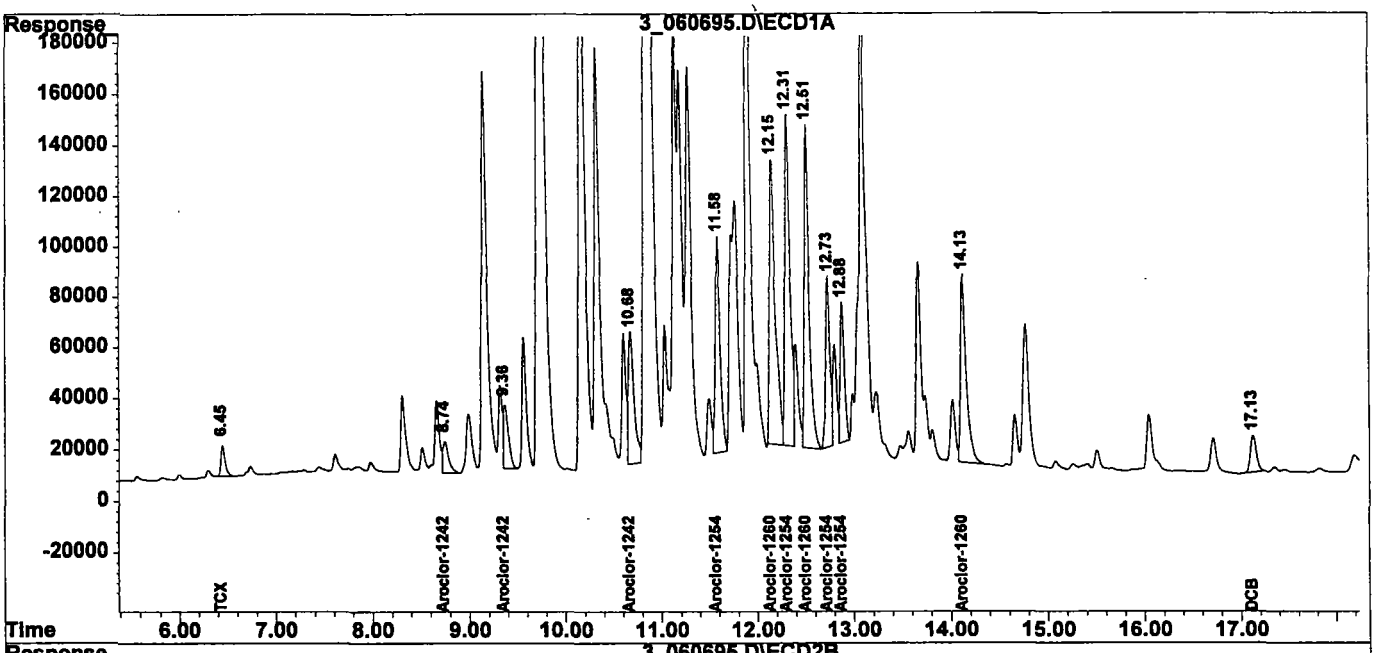
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

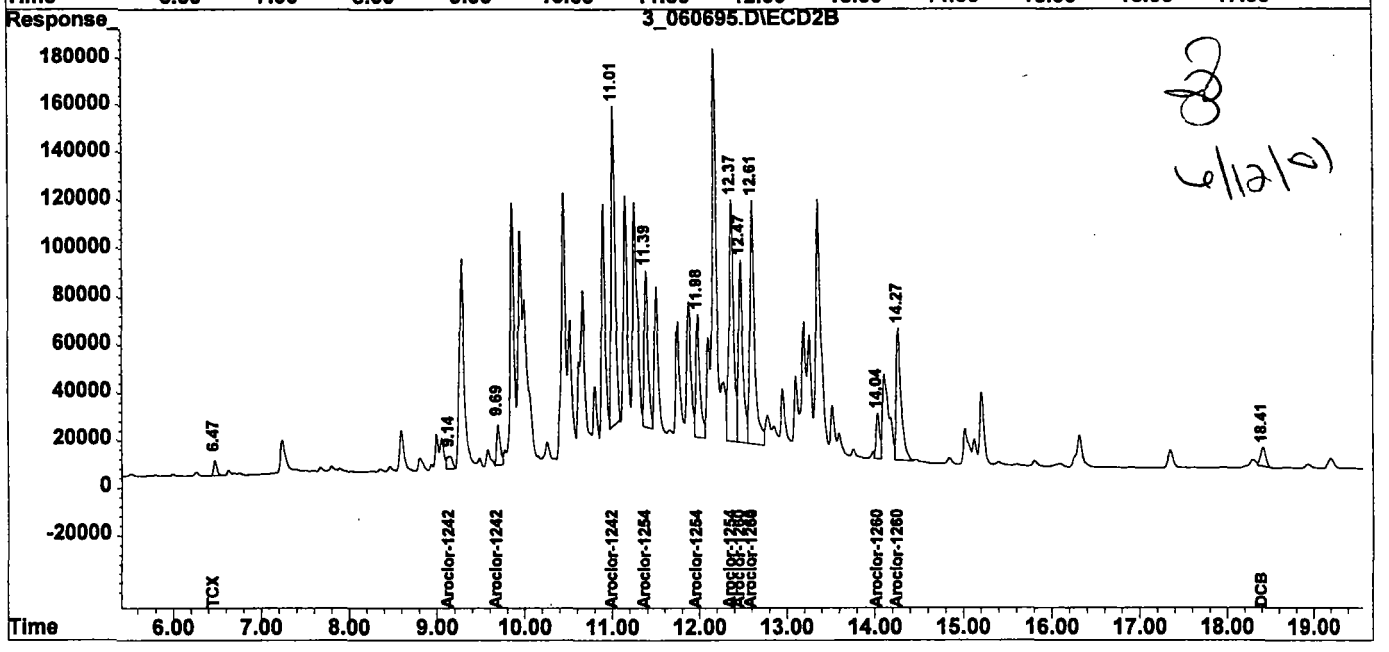
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060695.D\ECD1A.CH Vial: 89
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060695.D\ECD2B.CH
Acq On : 08 Jun 2001 9:13 Operator: DDC
Sample : 46663.21 *E30E1 * Inst : HP_03
Misc : *EPA*30.4G/5.0ML*59 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 14:08 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

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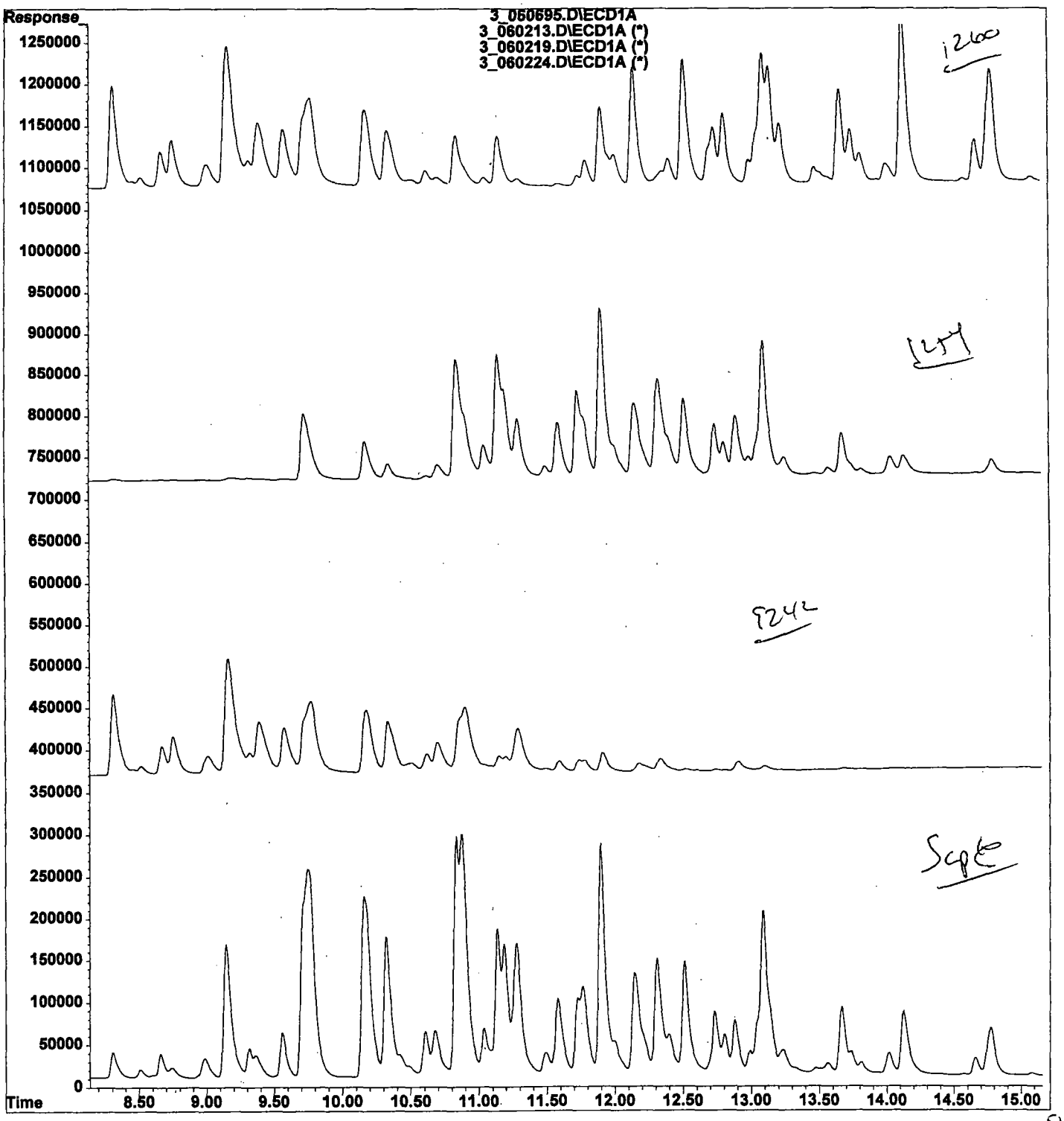
File : F:\HPCHEM\HP\3\DATA\06_06_01\3_060695.D
Operator : DDC
Acquired : 08 Jun 2001 9:13 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 46663.21
Misc Info :
Vial Number: 89



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30E1DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.21DL

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

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

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

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/10/01

Injection Volume: 0.5(uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	790	U ~~J~~
11104-28-2	Aroclor-1221	790	U ~~J~~
11141-16-5	Aroclor-1232	790	U ~~J~~
53469-21-9	Aroclor-1242	1900	~~DJ~~
12672-29-6	Aroclor-1248	790	U ~~J~~
11097-69-1	Aroclor-1254	~~7200~~	~~DJ~~
11096-82-5	Aroclor-1260	3300	~~D~~ J
Surrogate amount spiked		16.04	

TBS 6/28/01

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060952.D\ECD1A.CH Vial: 52
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060952.D\ECD2B.CH
Acq On : 10 Jun 2001 9:29 Operator: DDC
Sample : 46663.21DL *E30E1DL * Inst : HP_03
Misc : *EPA*30.4G/5.0ML*59 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 11 11:00 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.48	39335	19431	12.3	15.9	#
	Spiked Amount 16.046			Recovery	=	76.65%	99.09%	
22)	S DCB	17.11	18.41	78406	52352	27.0	35.4	#
	Spiked Amount 16.046			Recovery	=	168.26%	220.61%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.75	7.80	72736	5581	1191.4	305.3	#
	L4 Aroclor-1242 {2}	9.01f	9.15	110272	27996	5024.8	1320.2	#
9)	L4 Aroclor-1242 {3}	9.57	9.70	274766	81240	3566.7	4142.0	
11)	L4 Aroclor-1242 {5}	10.70f	0.00	265547	0	7461.2	N.D. d	#
	Sum Aroclor-1242			723321	114817	17244.1	5767.5	
	Average Aroclor-1242					4311.020	1922.488	
13)	L6 Aroclor-1254 {2}	11.59	11.40	479545	429353	8905.2	10168.8	E
14)	L6 Aroclor-1254 {3}	12.33f	11.99	805306	278843	7363.4	7147.9	
15)	L6 Aroclor-1254 {4}	12.74	12.18	300234	803669	6581.3	7969.2	
16)	L6 Aroclor-1254 {5}	13.10	12.61	1101846	522970	5895.2	8300.2	#
	Sum Aroclor-1254			2686931	2034835	28745.2	33586.1	
	Average Aroclor-1254					7186.291	8396.535	
17)	L7 Aroclor-1260	12.15	12.48	738213	439217	4618.5	5016.9	
18)	L7 Aroclor-1260 {2}	12.52	12.61	658333	522970	4199.2	5626.0	#
20)	L7 Aroclor-1260 {4}	13.67	14.04	286849	65422	3358.6	1111.5	#
21)	L7 Aroclor-1260 {5}	14.13	14.27	358273	221750	1784.2	1588.0	
	Sum Aroclor-1260			2041668	1249358	112006.7	107047.7	
	Average Aroclor-1260					3490.129	3335.607	

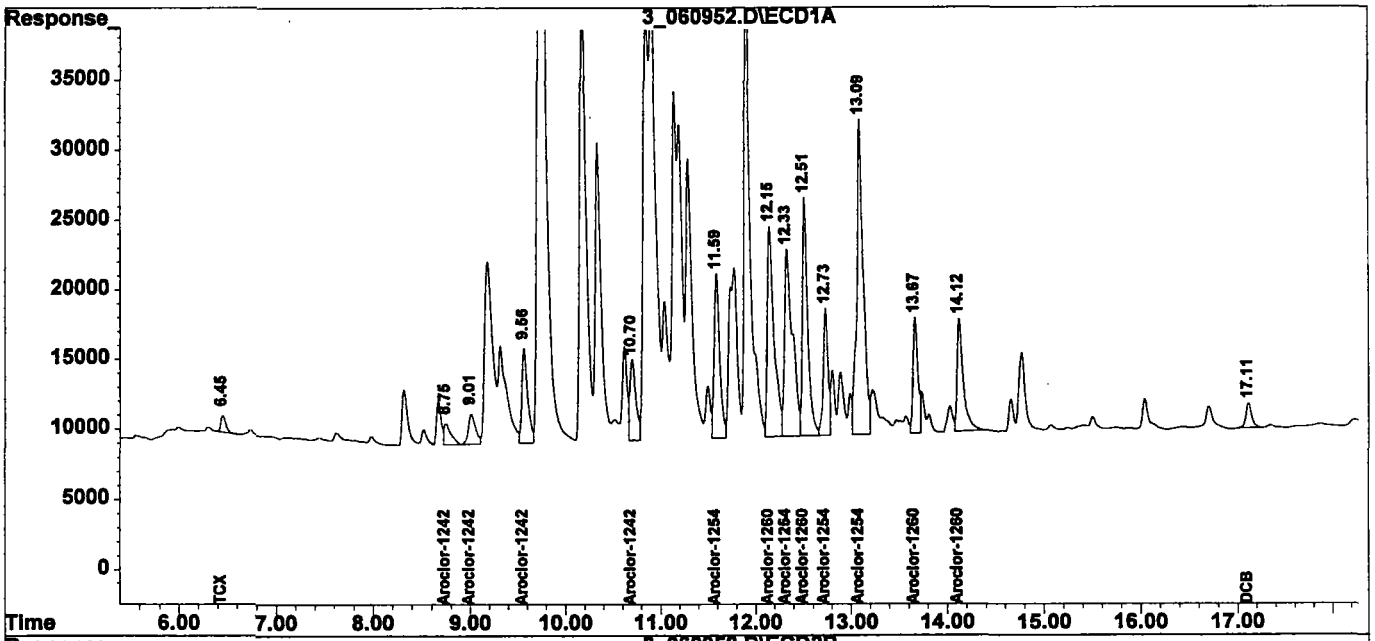
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

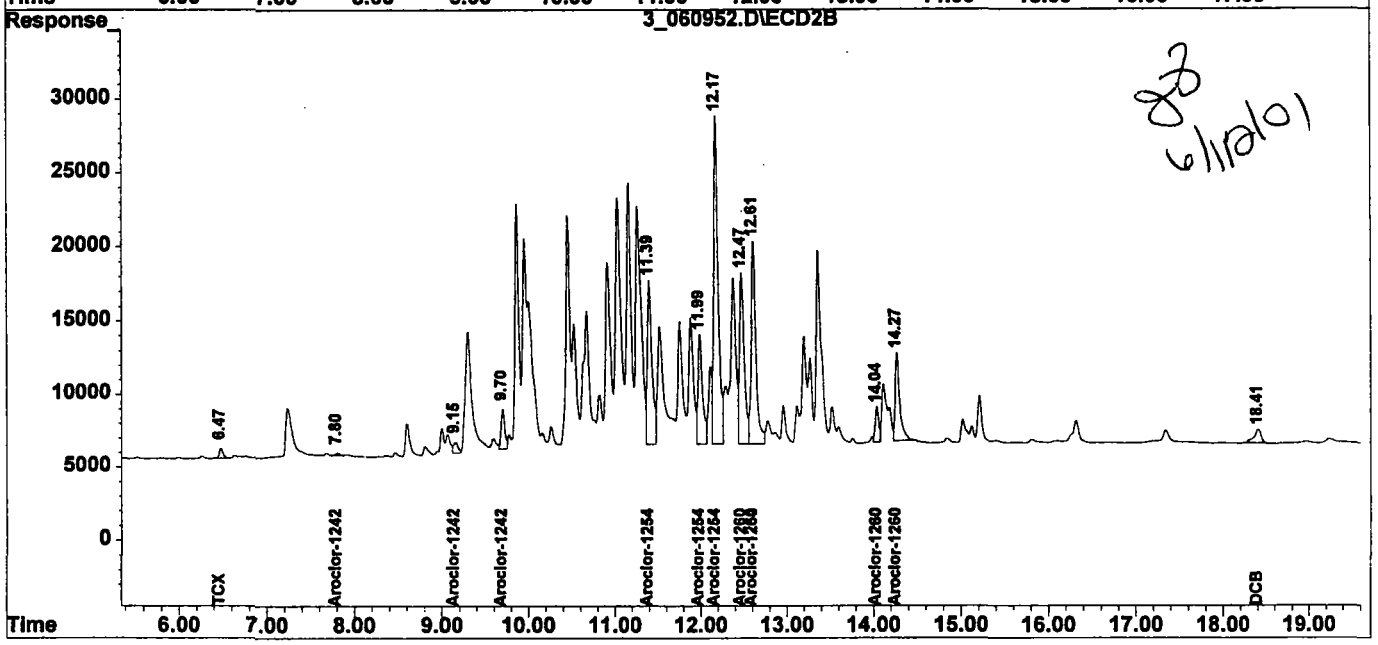
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060952.D\ECD1A.CH Vial: 52
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060952.D\ECD2B.CH
Acq On : 10 Jun 2001 9:29 Operator: DDC
Sample : 46663.21DL *E30E1DL * Inst : HP_03
Misc : *EPA*30.4G/5.0ML*59 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 11 11:00 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





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6/12/01

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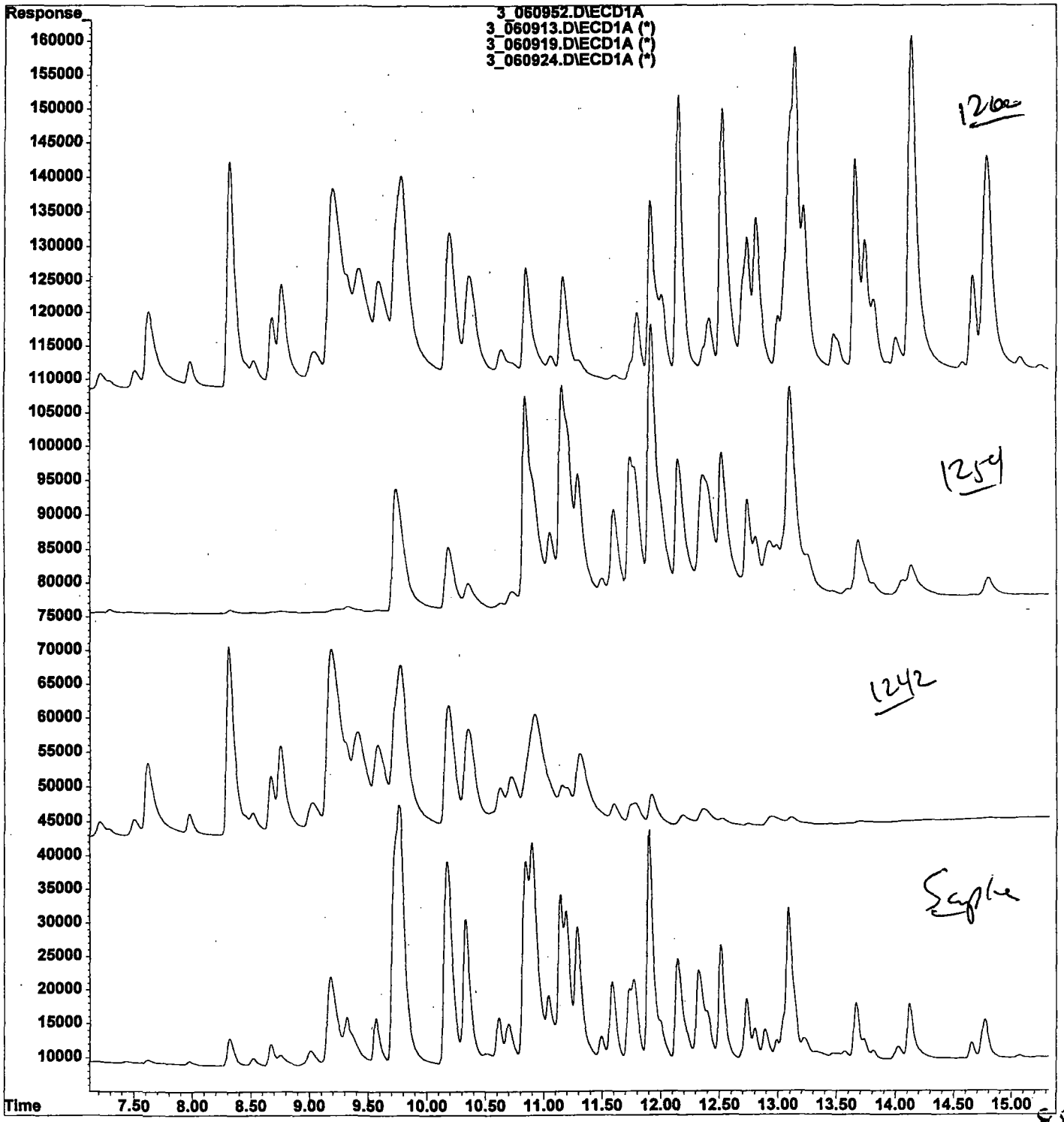
File : F:\HPCHEM\HP\3\DATA\06_09_01\3_060952.D
Operator : DDC
Acquired : 10 Jun 2001 9:29 using AcqMethod OLM03.M
Instrument : HP 03
Sample Name: 46663.21DL *E30E1DL *
Misc Info : *EPA*30.4G/5.0ML*59
Vial Number: 52



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30E2

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.22

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

% Moisture: 17 decanted: (Y/N) __ Date Received: 06/01/01

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

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

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:30.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	15	J ~~JP~~
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	8.1	J ~~JP~~
11096-82-5	Aroclor-1260	9.1	J
	Surrogate amount spiked	7.93	

TBS 6/28/01 TB 7/11/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060696.D\ECD1A.CH Vial: 90
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060696.D\ECD2B.CH
Acq On : 08 Jun 2001 12:01 Operator: DDC
Sample : 46663.22 *E30E2 * Inst : HP_03
Misc : *EPA*30.4G/5.0ML*17 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 12 12:27 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.47f	6.48	329407	126574	5.535	5.395	
	Spiked Amount 7.926			Recovery	=	69.83%	68.06%	
22)	S DCB	17.16	18.44	394893	219215	5.959m	6.492m	
	Spiked Amount 7.926			Recovery	=	75.18%	81.90%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.78	0.00	26791	0	26.4	N.D.	#
	L4 Aroclor-1242 {2}	9.03	9.16	17349	3879	37.3	9.239	#
	L4 Aroclor-1242 {3}	9.41	9.72	11833	2138	6.796	12.3	#
10)	L4 Aroclor-1242 {4}	10.21	10.69	57933	4970	32.1	10.1	#
11)	L4 Aroclor-1242 {5}	10.74f	11.05	19065	20648	24.1	27.5	
	Sum Aroclor-1242			132971	31634	126.7	59.1	
	Average Aroclor-1242					25.337	14.783	
13)	L6 Aroclor-1254 {2}	0.00	11.42	0	22093	N.D. d	36.4	#
14)	L6 Aroclor-1254 {3}	12.36	12.00	31849	6277	9.581	7.213	
15)	L6 Aroclor-1254 {4}	12.77	12.40	10105	7399	9.492	4.751	#
16)	L6 Aroclor-1254 {5}	12.92	0.00	7255	0	5.273	N.D. d	#
	Sum Aroclor-1254			49208	35768	24.3	48.3	
	Average Aroclor-1254					8.115	16.109	
17)	L7 Aroclor-1260	12.18	12.49	32388	12483	11.3	7.899	#
18)	L7 Aroclor-1260 {2}	12.55	0.00	48335	0	15.7	N.D. d	#
19)	L7 Aroclor-1260 {3}	13.13f	13.38f	17540	19262	6.832m	13.3	#
20)	L7 Aroclor-1260 {4}	0.00	14.06	0	5367	N.D. d	5.731	#
21)	L7 Aroclor-1260 {5}	0.00	14.29	0	24869	N.D.	9.387	#
	Sum Aroclor-1260			98263	61981	13.4	14.4	
	Average Aroclor-1260					11.269	9.091	

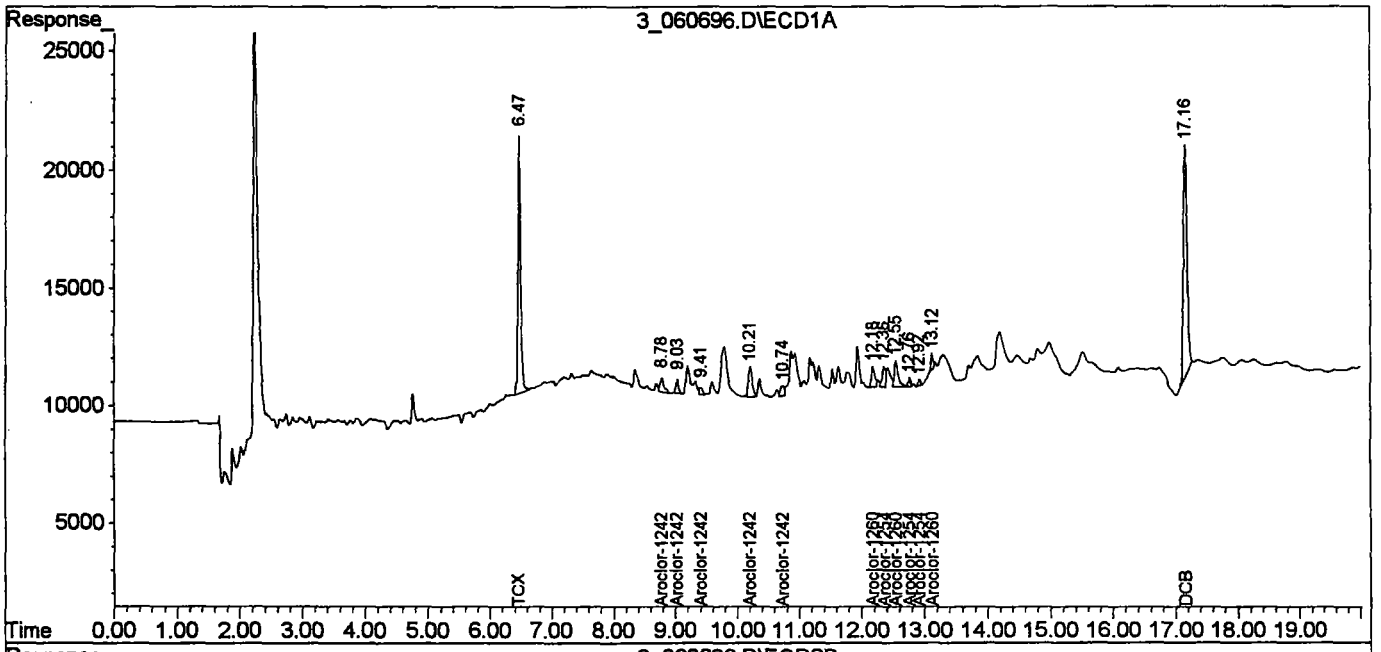
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

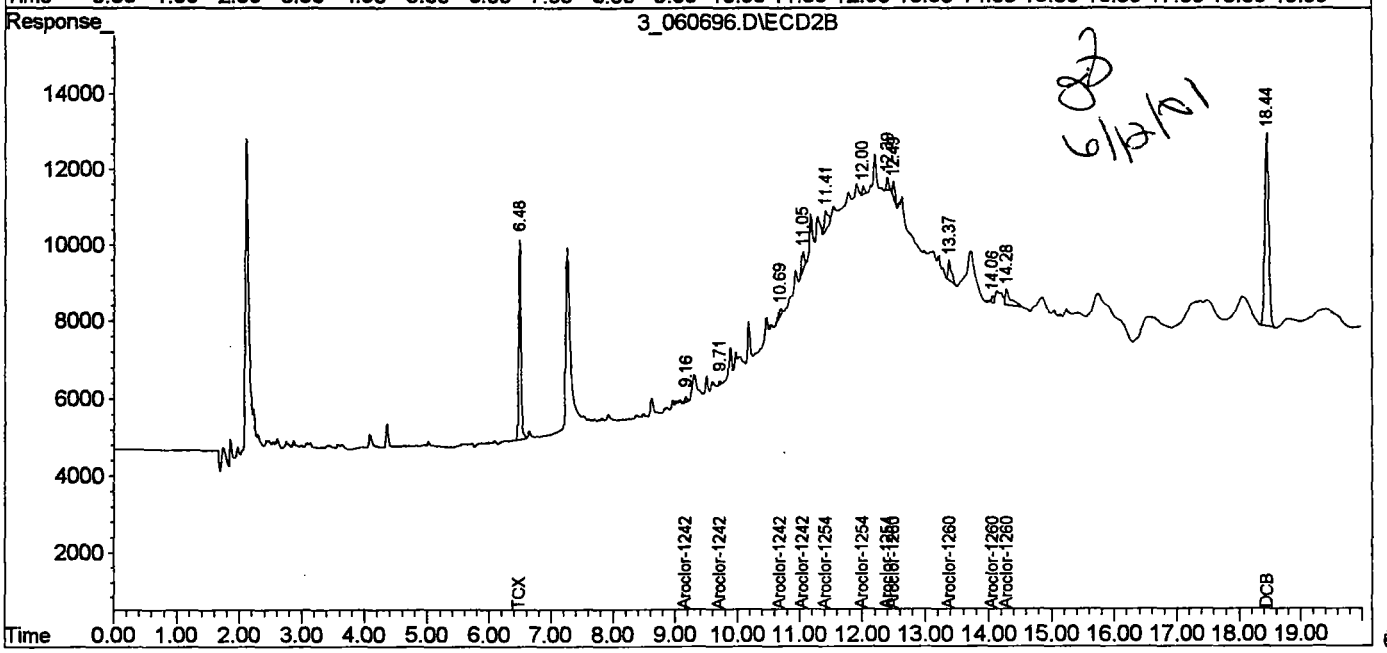
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060696.D\ECD1A.CH Vial: 90
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060696.D\ECD2B.CH
Acq On : 08 Jun 2001 12:01 Operator: DDC
Sample : 46663.22 *E30E2 * Inst : HP_03
Misc : *EPA*30.4G/5.0ML*17 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 12 12:27 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

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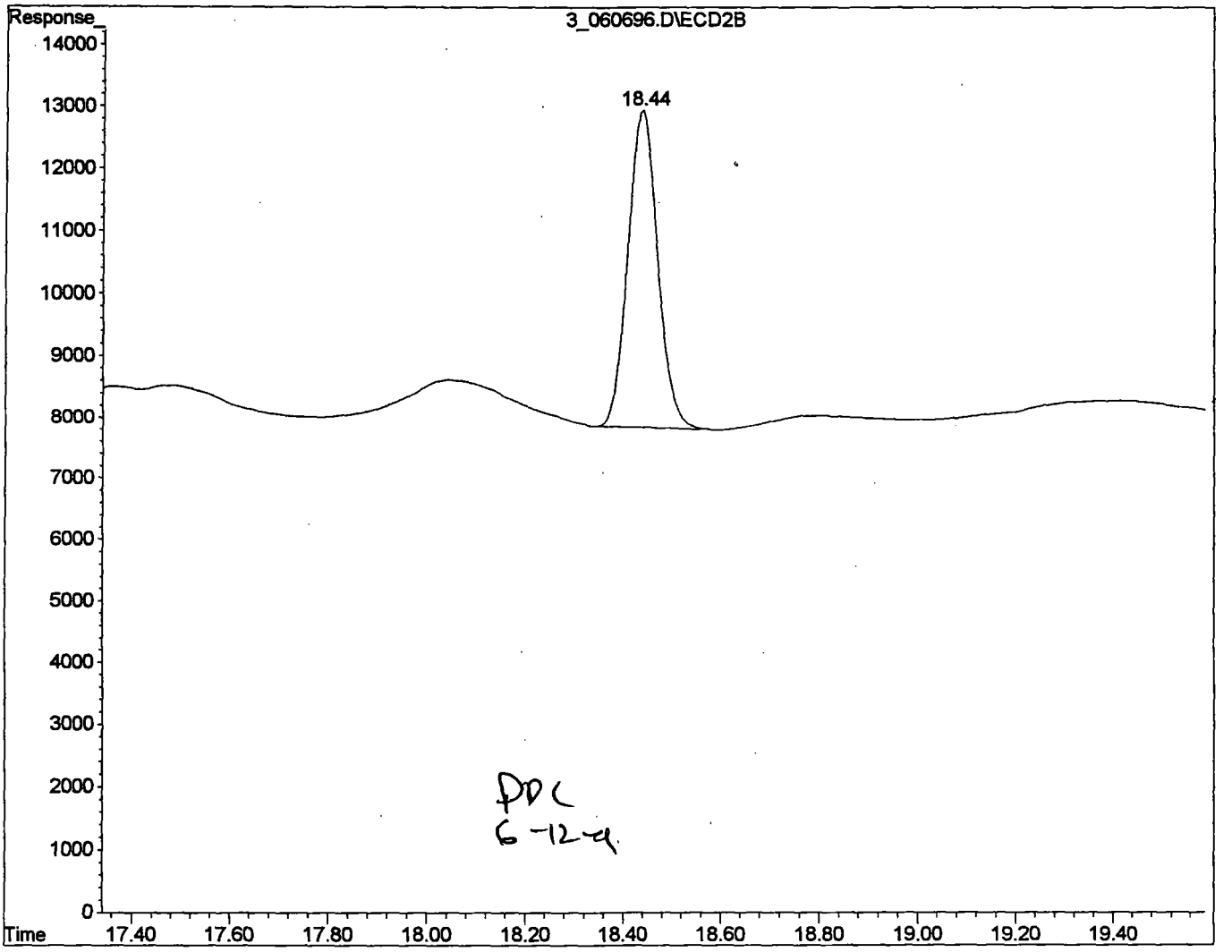
MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\06_06_01\3_060696.D
Date Acquired: 08 Jun 2001 12:01
Inst: HP_03 Operator ID: DDC
Name: 46663.22 *E30E2 *
Misc: *EPA*30.4G/5.0ML*17
Method: F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title: PCB/TOXAPHENE
Quant Time: Jun 12 12:27 2001 Quant Results File: XPCBF02.RES

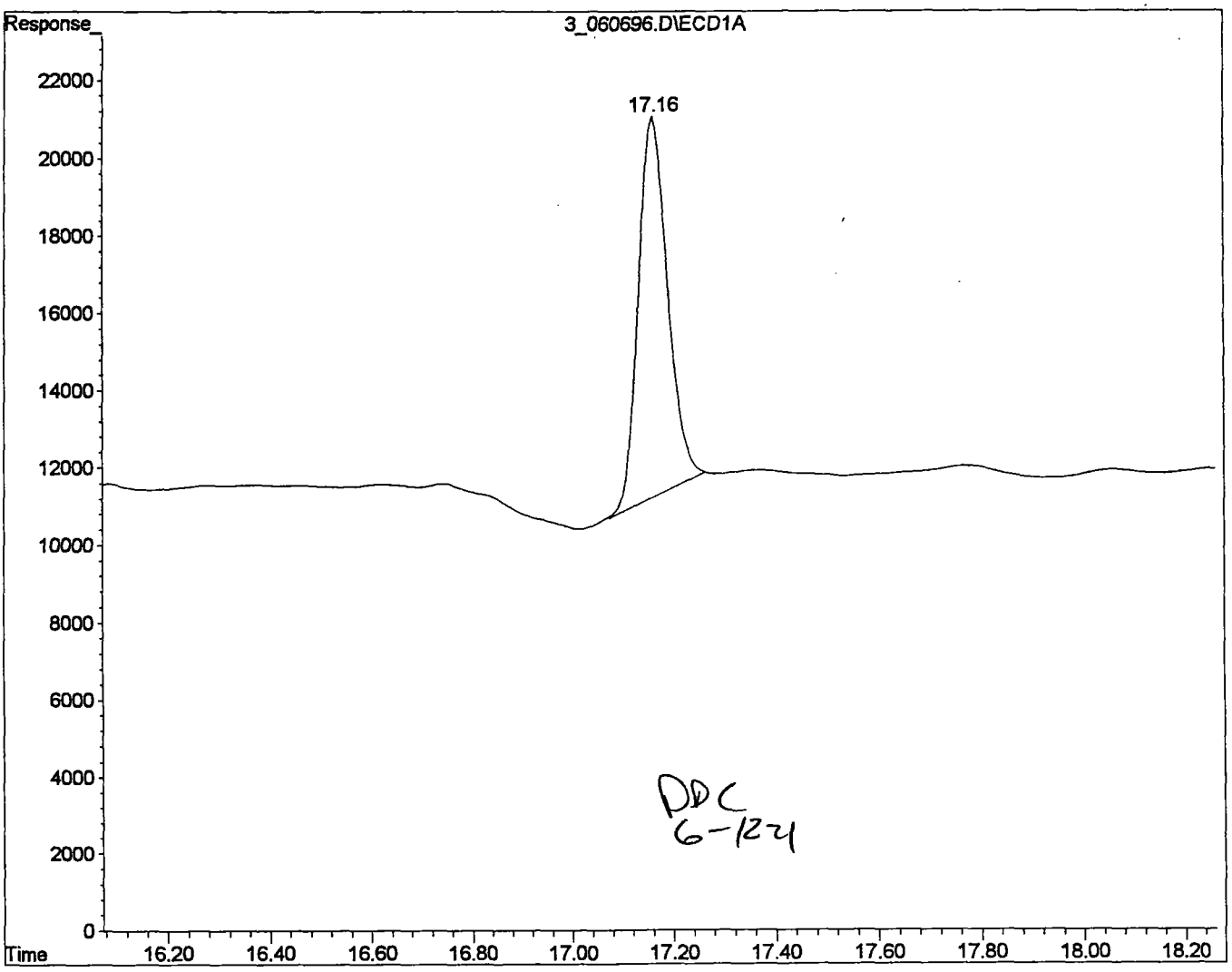


DCB #2 18.44min area: 219215 m

Integration Time Range: 18.34 - 18.59

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\06_06_01\3_060696.D
Date Acquired: 08 Jun 2001 12:01
Inst: HP_03 Operator ID: DDC
Name: 46663.22 *E30E2 *
Misc: *EPA*30.4G/5.0ML*17
Method: F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title: PCB/TOXAPHENE
Quant Time: Jun 12 12:27 2001 Quant Results File: XPCBF02.RES

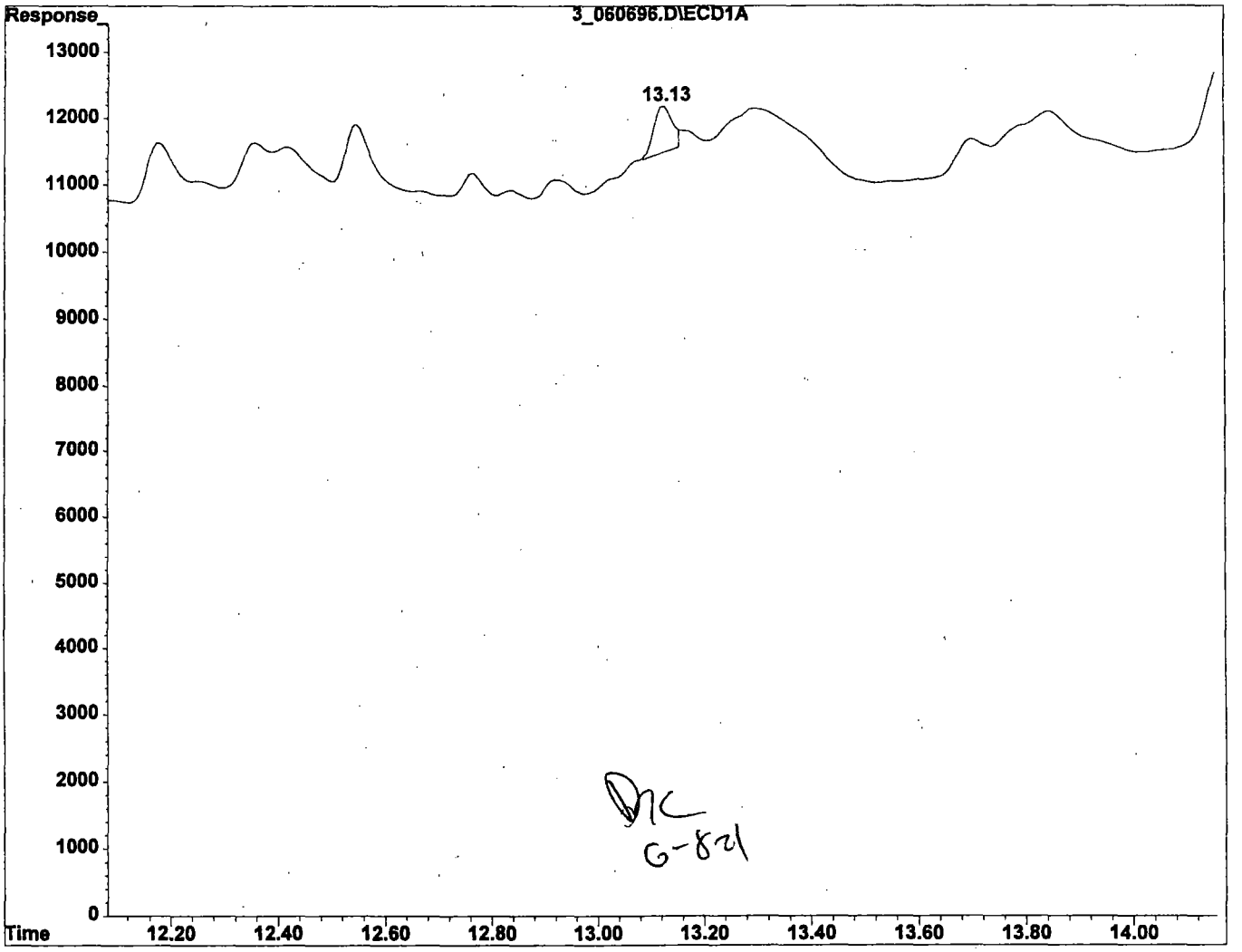


DCB 17.16min area: 394893 m

Integration Time Range: 17.07 - 17.26

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\06_06_01\3_060696.D
Date Acquired: 08 Jun 2001 12:01
Inst: HP_03 Operator ID: DDC
Name: 46663.22 *E30E2 *
Misc: *EPA*30.4G/5.0ML*17
Method: F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title: PCB/TOXAPHENE
Quant Time: Jun 8 14:23 2001 Quant Results File: XPCBF02.RES

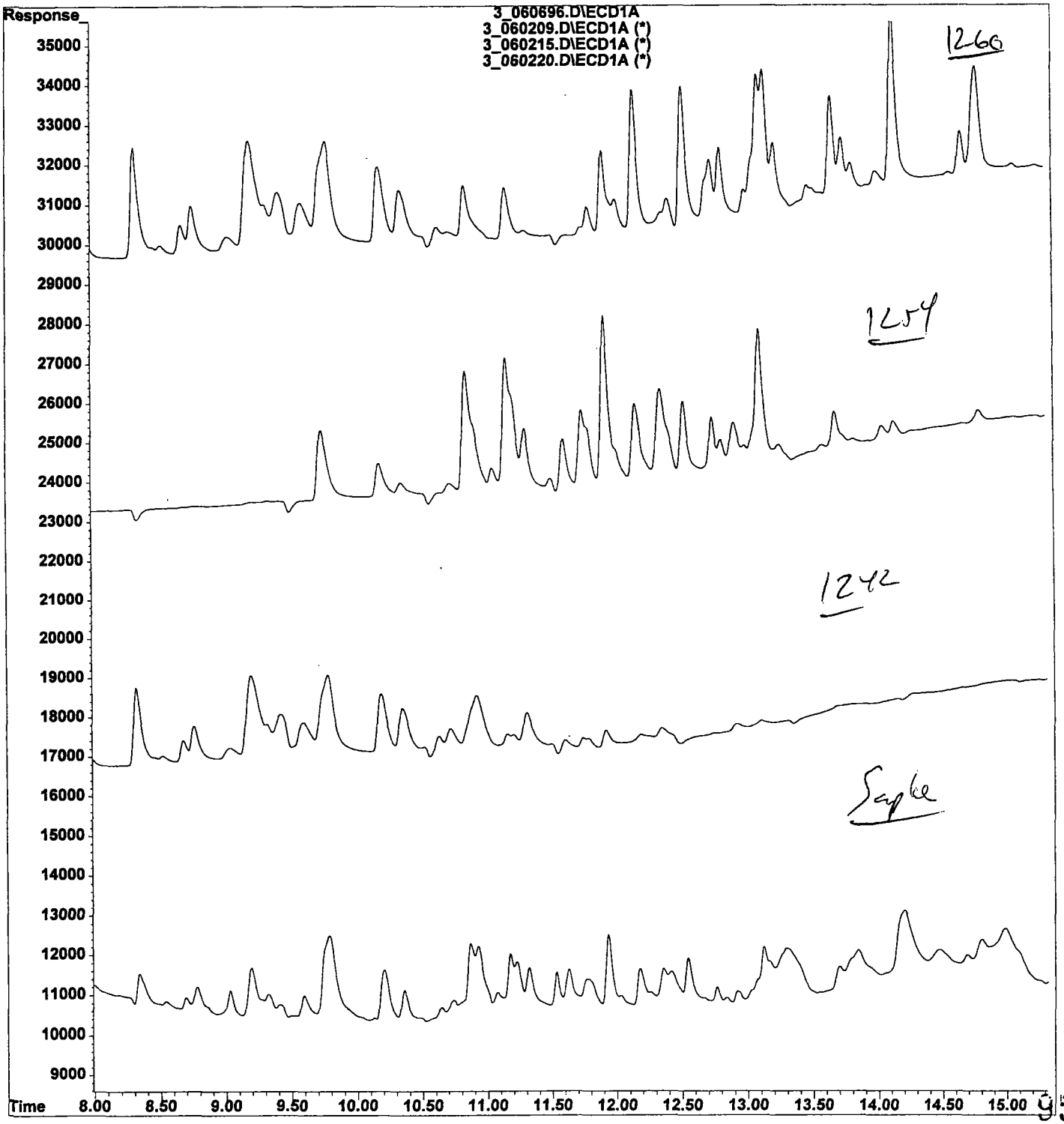


Aroclor-1260 {3} 13.13min area: 17540 m

Integration Time Range: 13.08 - 13.15

F:\HPCHEM\HP\3\DATA\06_06_01\3_060696.D
Report generated: Fri Jun 08 14:33:07 2001

File : F:\HPCHEM\HP\3\DATA\06_06_01\3_060696.D
Operator : DDC
Acquired : 08 Jun 2001 12:01 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 46663.22
Misc Info :
Vial Number: 90



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30E3

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.23

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

% Moisture: 56 decanted: (Y/N) __ Date Received: 06/01/01

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

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/10/01

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	73	U
11104-28-2	Aroclor-1221	73	U
11141-16-5	Aroclor-1232	73	U
53469-21-9	Aroclor-1242	190	J
12672-29-6	Aroclor-1248	73	U
11097-69-1	Aroclor-1254	250	J
11096-82-5	Aroclor-1260	110	J
Surrogate amount spiked		14.76	

TBS 6/28/01 TB 7/11/01

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060948.D\ECD1A.CH Vial: 48
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060948.D\ECD2B.CH
Acq On : 10 Jun 2001 7:50 Operator: DDC
Sample : 46663.23 *E30E3 * Inst : HP_03
Misc : *EPA*30.8G/5.0ML*56 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:40 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.48	326790	138018	9.389	10.4	
	Spiked Amount 14.758			Recovery	=	63.62%	70.47%	
22)	S DCB	17.12	18.42	492239	273456	15.6	17.0	
	Spiked Amount 14.758			Recovery	=	105.71%	115.19%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.74	7.76f	221716	68455	334.0	344.4	
	L4 Aroclor-1242 {2}	0.00	9.16	0	19292	N.D.	83.7	#
	L4 Aroclor-1242 {3}	9.56	9.70	109750	29948	131.0	140.4	
11)	L4 Aroclor-1242 {5}	10.77	0.00	43986	0	113.7	N.D. d	#
	Sum Aroclor-1242			375452	117694	578.7	568.5	
	Average Aroclor-1242					192.902	189.486	
13)	L6 Aroclor-1254 {2}	11.58	11.39	173836	154426	296.9	336.4	
14)	L6 Aroclor-1254 {3}	0.00	11.98	0	68107	N.D. d	160.6	#
15)	L6 Aroclor-1254 {4}	12.73	12.17	153873	251934	310.2	229.8	#
16)	L6 Aroclor-1254 {5}	13.09	12.61	591198	185016	290.9	270.1	
	Sum Aroclor-1254			918907	659484	898.0	996.8	
	Average Aroclor-1254					299.344	249.196	
17)	L7 Aroclor-1260	12.15	0.00	309696	0	178.2	N.D. d	#
18)	L7 Aroclor-1260 {2}	12.51	12.61	326088	185016	191.3	183.1	
19)	L7 Aroclor-1260 {3}	0.00	13.41	0	110387	N.D.	74.4	#
20)	L7 Aroclor-1260 {4}	13.66	14.04	227432	44151	244.9	69.0	#
21)	L7 Aroclor-1260 {5}	14.12	14.27	323357	194882	148.1	128.4	
	Sum Aroclor-1260			1186574	534436	562.7	335.6	
	Average Aroclor-1260					190.629	113.693	

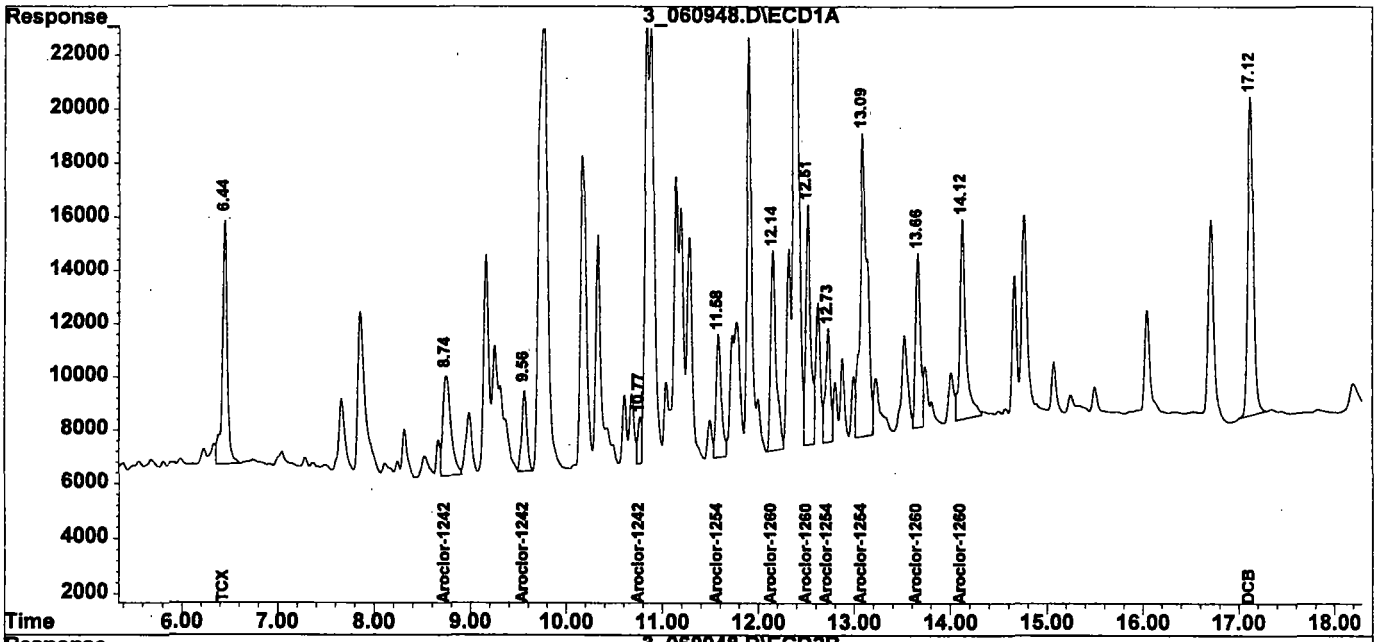
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

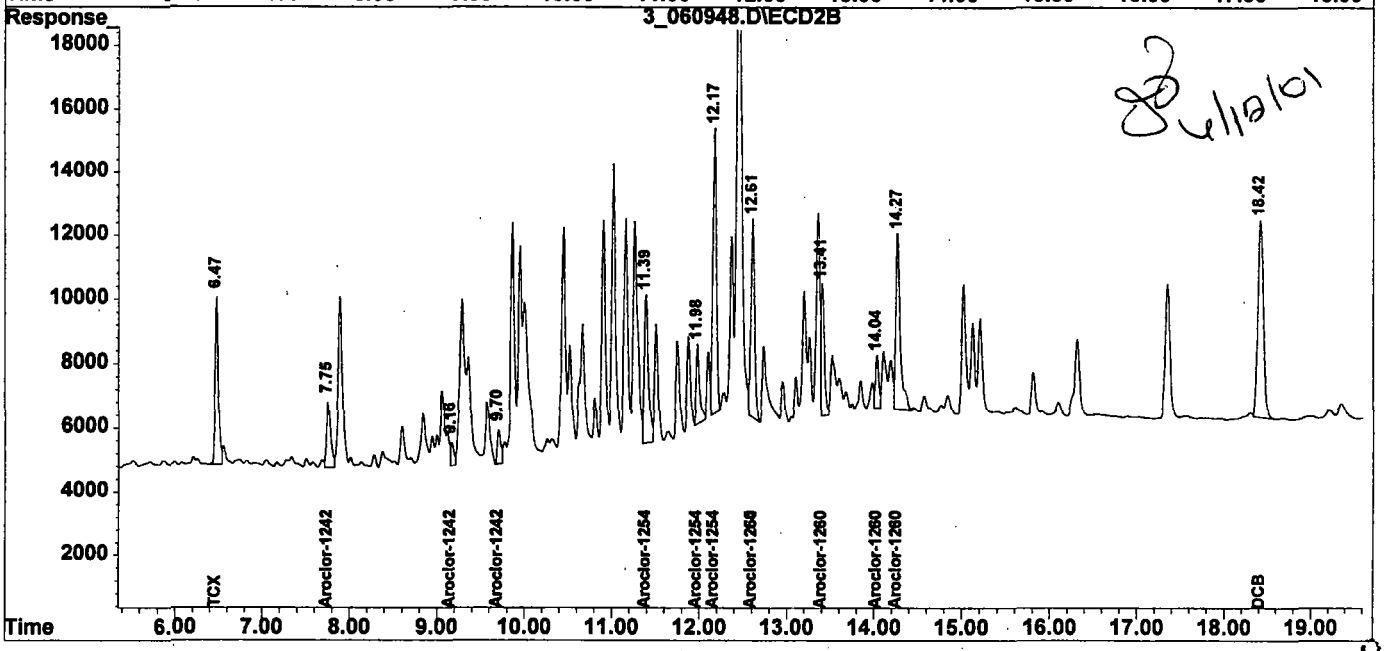
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060948.D\ECD1A.CH Vial: 48
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060948.D\ECD2B.CH
Acq On : 10 Jun 2001 7:50 Operator: DDC
Sample : 46663.23 *E30E3 * Inst : HP_03
Misc : *EPA*30.8G/5.0ML*56 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:40 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

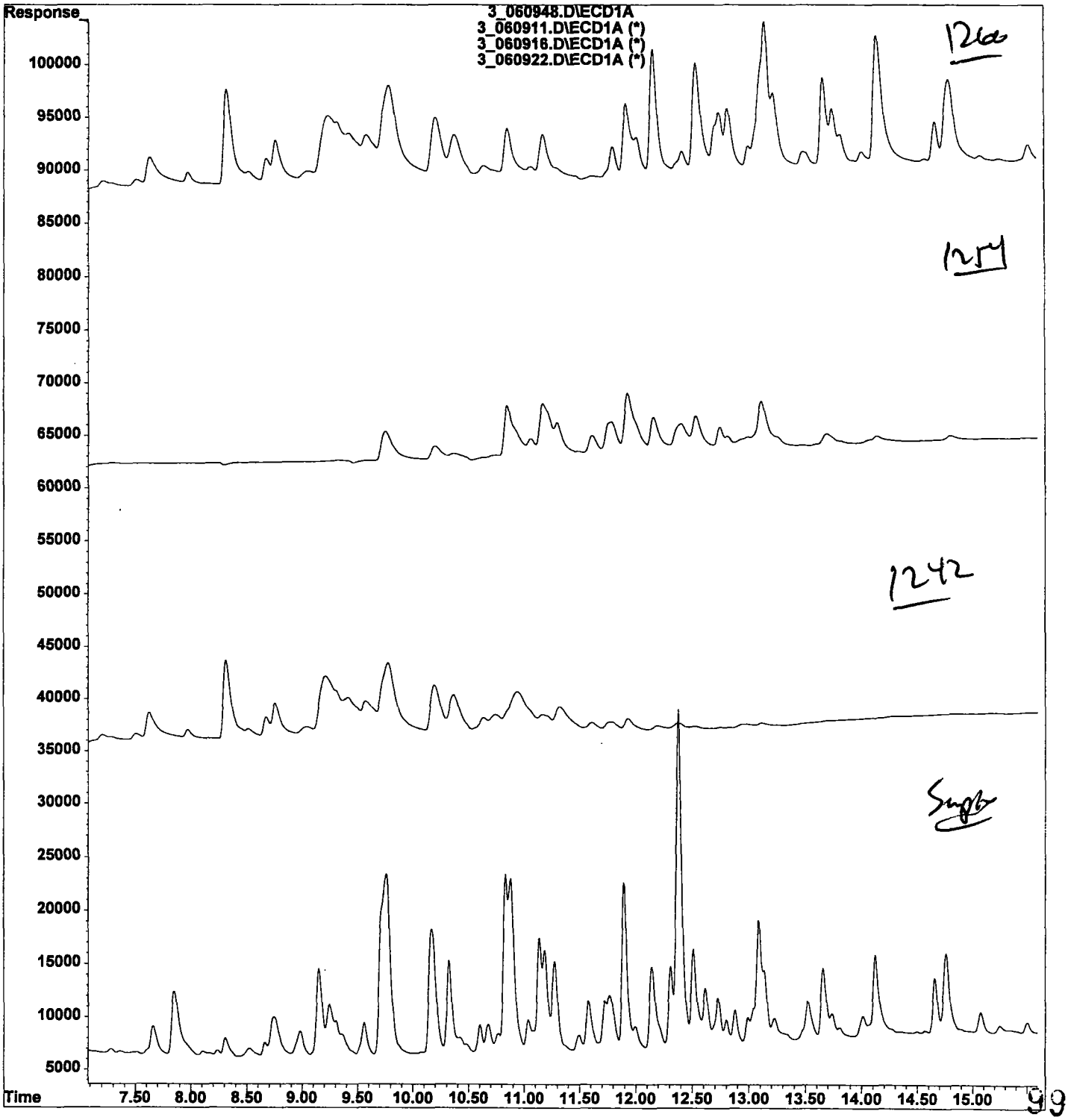
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





8 6/12/01

File : F:\HPCHEM\HP\3\DATA\06_09_01\3_060948.D
Operator : DDC
Acquired : 10 Jun 2001 7:50 using AcqMethod OLM03.M
Instrument : HP 03
Sample Name: 46663.23
Misc Info :
Vial Number: 48



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30E4

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

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

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

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

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

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/10/01

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	80	U J
11104-28-2	Aroclor-1221	80	U J
11141-16-5	Aroclor-1232	80	U J
53469-21-9	Aroclor-1242	620	~~P~~ J
12672-29-6	Aroclor-1248	80	U J
11097-69-1	Aroclor-1254	440	J
11096-82-5	Aroclor-1260	210	J
Surrogate amount spiked		16.16	

TBS 6/28/01

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060949.D\ECD1A.CH Vial: 49
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060949.D\ECD2B.CH
Acq On : 10 Jun 2001 8:15 Operator: DDC
Sample : 46663.24 *E30E4 * 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: Jun 10 9:42 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.48	321311	167922	10.1	13.8	#
	Spiked Amount 16.152			Recovery	=	62.53%	85.44%	
22)	S DCB	17.12	18.42	1096225	583545	38.0	39.8	
	Spiked Amount 16.152			Recovery	=	235.26%	246.40%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.75	7.80	553078	263669	911.9	1451.7	E#
9)	L4 Aroclor-1242 {3}	9.56	9.70	511644	86357	668.6	443.2	#
10)	L4 Aroclor-1242 {4}	0.00	10.67	0	263714	N.D. d	1046.6	#
11)	L4 Aroclor-1242 {5}	10.77	0.00	98122	0	277.5	N.D. d	#
	Sum Aroclor-1242			1162844	613740	1858.0	2941.5	
	Average Aroclor-1242					619.339	980.493	
13)	L6 Aroclor-1254 {2}	11.58	11.39	293304	244071	548.3	581.9	
14)	L6 Aroclor-1254 {3}	12.38	11.98	865792	75742	796.9	195.4	#
15)	L6 Aroclor-1254 {4}	12.73	12.18	269460	506398	594.6	505.5	
16)	L6 Aroclor-1254 {5}	13.09	12.61	720143	287608	387.8	459.5	
	Sum Aroclor-1254			2148699	1113819	2327.6	1742.3	
	Average Aroclor-1254					581.901	435.574	
17)	L7 Aroclor-1260	12.15	0.00	621315	0	391.3	N.D. d	#
18)	L7 Aroclor-1260 {2}	12.51	12.61	520875	287608	334.4	311.5	
19)	L7 Aroclor-1260 {3}	13.14	13.41	325520	217769	130.2	160.6	
20)	L7 Aroclor-1260 {4}	13.67	14.04	330061	69786	389.0	119.3	#
21)	L7 Aroclor-1260 {5}	14.12	14.27	526800	342115	264.1	246.6	
	Sum Aroclor-1260			2324571	917278	1218.8	676.8	
	Average Aroclor-1260					301.813	209.500	

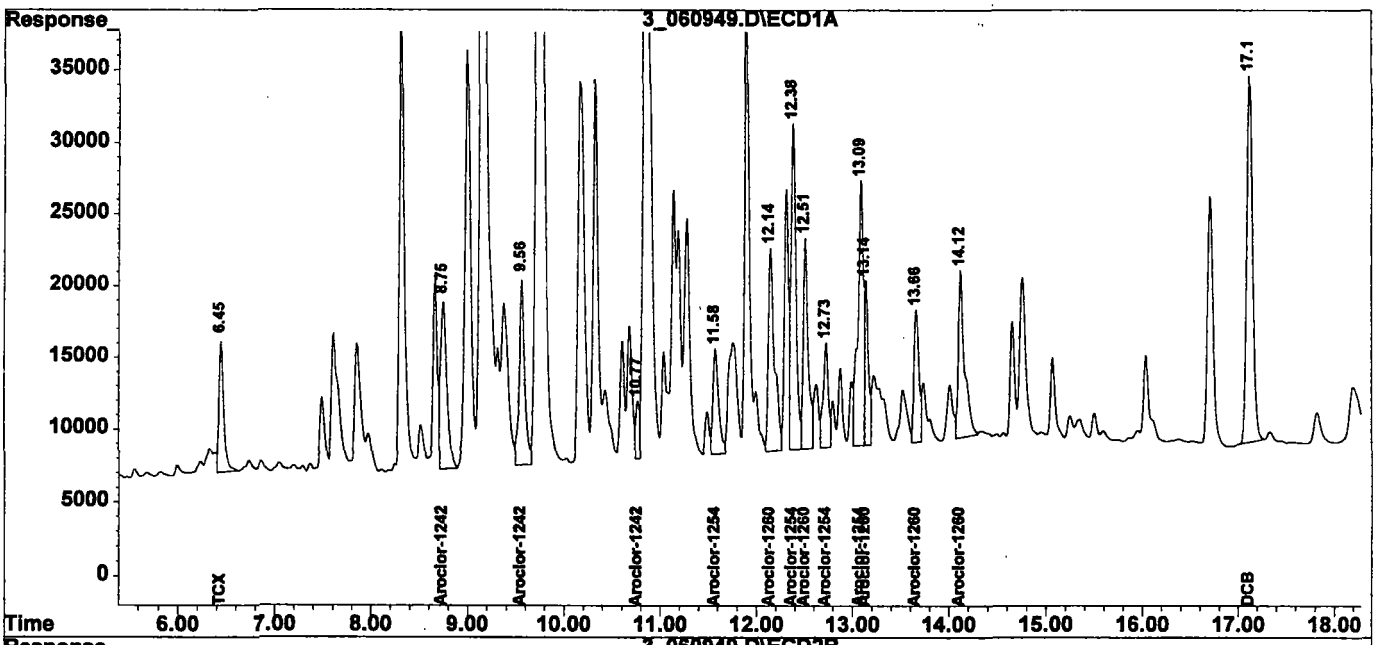
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

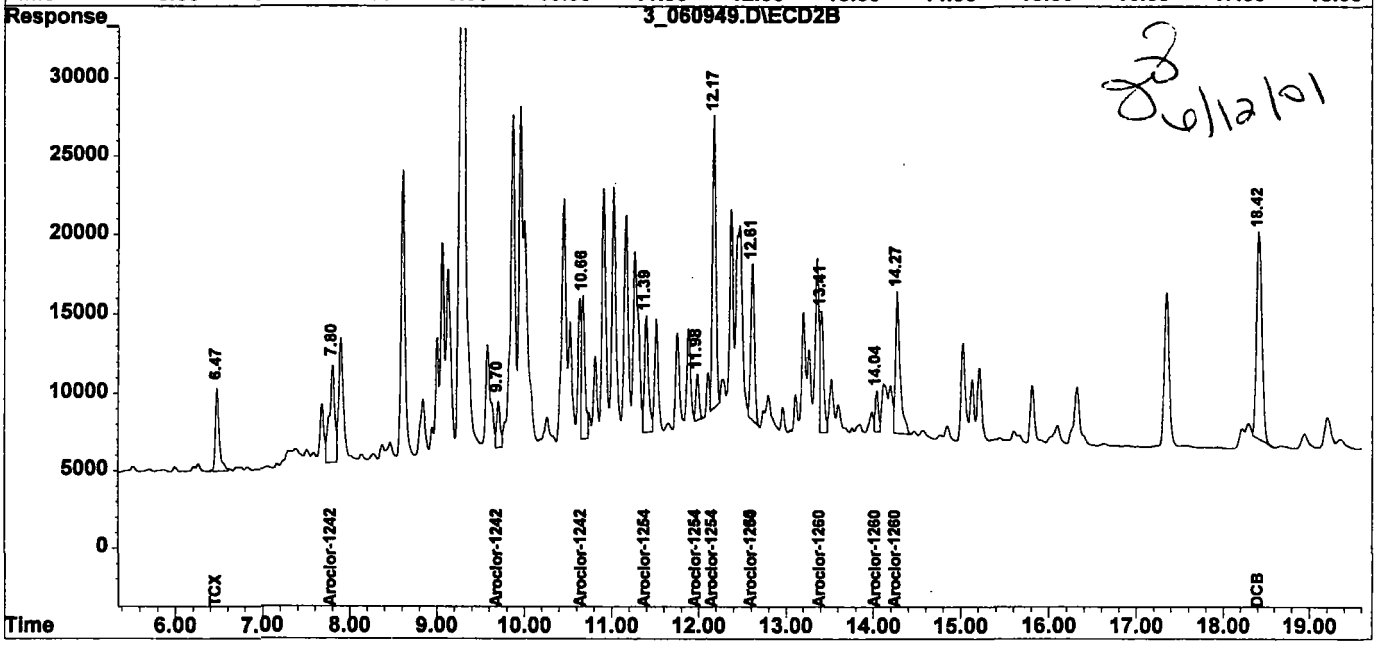
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060949.D\ECD1A.CH Vial: 49
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060949.D\ECD2B.CH
Acq On : 10 Jun 2001 8:15 Operator: DDC
Sample : 46663.24 *E30E4 * 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: Jun 10 9:42 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

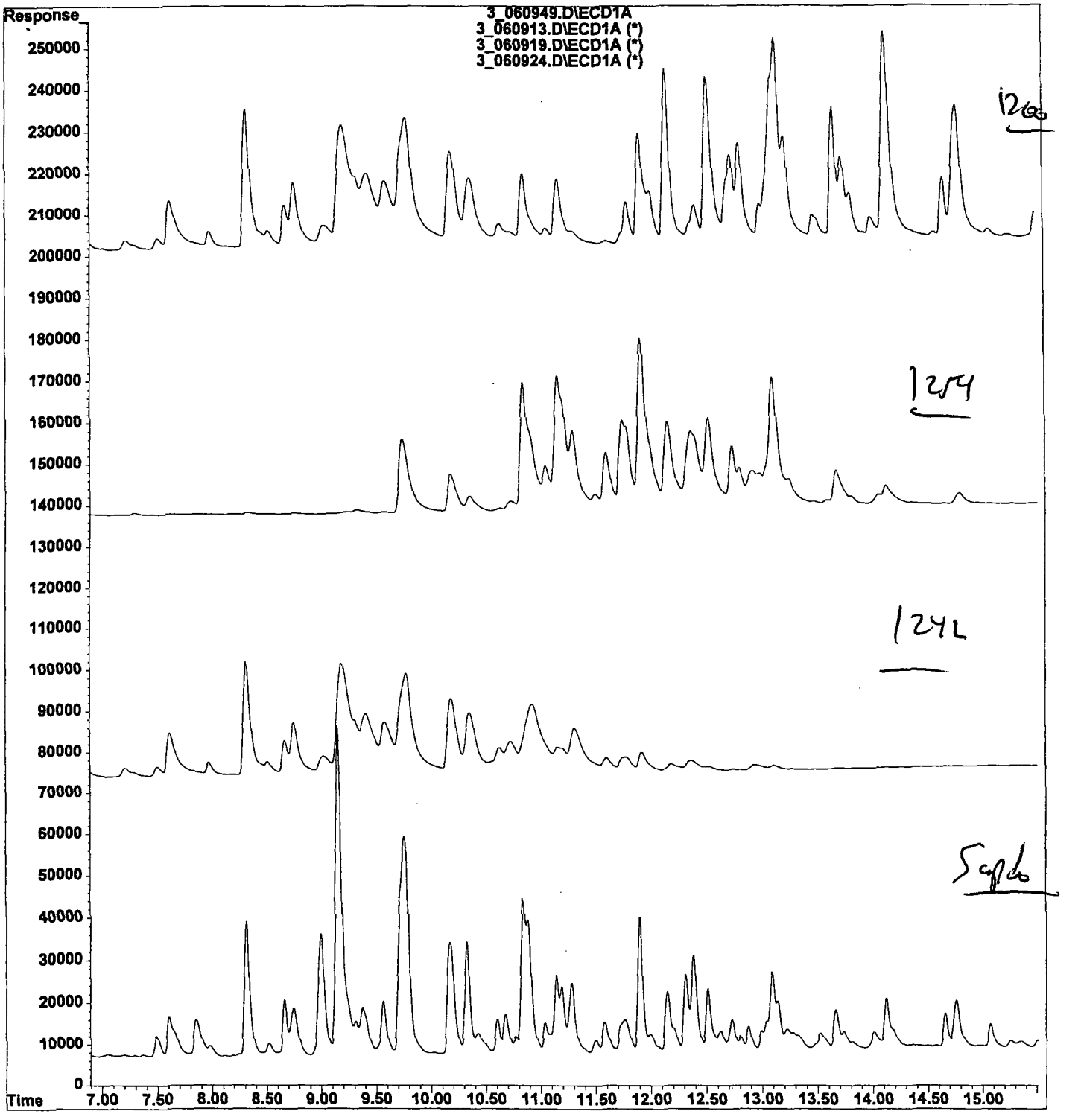
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





3 6/12/01

File : F:\HPCHEM\HP\3\DATA\06_09_01\3_060949.D
Operator : DDC
Acquired : 10 Jun 2001 8:15 using AcqMethod OLM03.M
Instrument : HP_03
Sample Name: 46663.24 *E30E4 *
Misc Info : *EPA*30.2G/5.0ML*59
Vial Number: 49



6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Instrument ID: HP_03A Date(s) Analyzed: 06/02/01 06/02/01

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

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

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	8.77	429290	MEAN
		2	9.04	177810	
		3	9.42	665640	
		4	10.19	755680	
		5	10.73	375130	
Aroclor 1242 L2	0.20	1	8.76	423930	MEAN
		2	9.03	177400	
		3	9.42	725490	
		4	10.19	742245	
		5	10.72	291635	
Aroclor 1242 L3	0.40	1	8.76	400073	MEAN
		2	9.03	178435	
		3	9.41	698340	
		4	10.18	694623	
		5	10.72	281845	
Aroclor 1242 L4	0.80	1	8.76	391200	MEAN
		2	9.02	190788	
		3	9.40	700204	
		4	10.18	707696	
		5	10.71	307893	
Aroclor 1242 L5	1.60	1	8.76	368606	MEAN
		2	9.01	197340	
		3	9.40	660784	
		4	10.18	676711	
		5	10.70	309424	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	8.76	8.71	8.81	402620	6.2
	2	9.03	8.98	9.08	184355	5.0
	3	9.41	9.36	9.46	690092	3.9
	4	10.18	10.13	10.23	715391	4.6
	5	10.72	10.67	10.77	313185	11.7

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Instrument ID: HP_03B Date(s) Analyzed: 06/02/01 06/02/01

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

GC Column: DB-1701 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	7.80	179040	MEAN
		2	9.16	170770	
		3	9.70	77410	
		4	10.68	194640	
		5	11.04	311040	
Aroclor 1242 L2	0.20	1	7.80	148570	MEAN
		2	9.15	175540	
		3	9.70	79180	
		4	10.68	202325	
		5	11.04	308515	
Aroclor 1242 L3	0.40	1	7.80	161858	MEAN
		2	9.15	164145	
		3	9.70	69685	
		4	10.67	193218	
		5	11.04	290510	
Aroclor 1242 L4	0.80	1	7.80	158068	MEAN
		2	9.15	163598	
		3	9.70	62534	
		4	10.67	197736	
		5	11.03	296413	
Aroclor 1242 L5	1.60	1	7.80	151296	MEAN
		2	9.15	157963	
		3	9.70	54659	
		4	10.67	190538	
		5	11.03	281663	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	7.80	7.75	7.85	159766	7.5
	2	9.15	9.10	9.20	166403	4.1
	3	9.70	9.65	9.75	68694	14.9
	4	10.67	10.62	10.72	195691	2.3
	5	11.04	10.99	11.09	297628	4.1

FORM VI PCB-3

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Instrument ID: HP_03B Date(s) Analyzed: 06/02/01 06/02/01

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

GC Column: DB-1701 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	10.46	150700	MEAN
		2	11.40	207210	
		3	12.00	356910	
		4	12.39	620290	
		5	12.62	463160	
Aroclor 1254 L2	0.20	1	10.46	156345	MEAN
		2	11.40	266870	
		3	11.99	361290	
		4	12.39	645560	
		5	12.62	478890	
Aroclor 1254 L3	0.40	1	10.45	148920	MEAN
		2	11.40	241948	
		3	11.99	328358	
		4	12.38	594248	
		5	12.61	437553	
Aroclor 1254 L4	0.80	1	10.45	158284	MEAN
		2	11.40	251133	
		3	11.99	343483	
		4	12.38	627325	
		5	12.61	457670	
Aroclor 1254 L5	1.60	1	10.45	154107	MEAN
		2	11.39	236796	
		3	11.99	334546	
		4	12.38	598546	
		5	12.61	436468	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	10.45	10.40	10.50	153671	2.5
	2	11.40	11.35	11.45	240791	9.1
	3	11.99	11.94	12.04	344917	4.1
	4	12.38	12.33	12.43	617194	3.4
	5	12.61	12.56	12.66	454748	4.0

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Instrument ID: HP_03A Date(s) Analyzed: 06/02/01 06/02/01

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

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

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	7.64	532560	MEAN
		2	8.32	1173690	
		3	9.20	1845420	
		4	9.60	704850	
		5	10.19	984130	
Aroclor 1016 L2	0.20	1	7.64	557155	MEAN
		2	8.32	1211335	
		3	9.19	1921800	
		4	9.59	701285	
		5	10.19	968715	
Aroclor 1016 L3	0.40	1	7.63	545215	MEAN
		2	8.32	1220515	
		3	9.18	1934258	
		4	9.59	689570	
		5	10.19	923573	
Aroclor 1016 L4	0.80	1	7.63	515873	MEAN
		2	8.32	1049090	
		3	9.18	1912779	
		4	9.59	663269	
		5	10.18	897720	
Aroclor 1016 L5	1.60	1	7.62	470550	MEAN
		2	8.32	950428	
		3	9.17	1794858	
		4	9.58	624449	
		5	10.18	840265	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	7.63	7.58	7.68	524271	6.4
	2	8.32	8.27	8.37	1121012	10.5
	3	9.18	9.13	9.23	1881823	3.2
	4	9.59	9.54	9.64	676685	4.9
	5	10.19	10.14	10.24	922881	6.3

FORM VI PCB-3

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Instrument ID: HP_03A Date(s) Analyzed: 06/02/01 06/02/01

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

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

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	12.16	1282950	MEAN
		2	12.53	1315170	
		3	13.15	1166600	
		4	13.67	743510	
		5	14.14	1697730	
Aroclor 1260 L2	0.20	1	12.16	1202850	MEAN
		2	12.53	1233480	
		3	13.16	1074735	
		4	13.68	724980	
		5	14.14	1664740	
Aroclor 1260 L3	0.40	1	12.16	1115905	MEAN
		2	12.53	1242893	
		3	13.16	997673	
		4	13.68	698118	
		5	14.14	1648020	
Aroclor 1260 L4	0.80	1	12.16	1083295	MEAN
		2	12.53	1177740	
		3	13.16	955295	
		4	13.68	700923	
		5	14.14	1660776	
Aroclor 1260 L5	1.60	1	12.16	1006016	MEAN
		2	12.53	1132315	
		3	13.15	893219	
		4	13.67	672136	
		5	14.14	1615369	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	12.16	12.11	12.21	1138203	9.4
	2	12.53	12.48	12.58	1220320	5.7
	3	13.16	13.11	13.21	1017504	10.4
	4	13.68	13.63	13.73	707933	3.9
	5	14.14	14.09	14.19	1657327	1.8

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Instrument ID: HP_03B Date(s) Analyzed: 06/02/01 06/02/01

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

GC Column: DB-1701 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	7.80	184080	MEAN
		2	8.60	547990	
		3	9.30	1030990	
		4	9.60	305980	
		5	10.46	294220	
Aroclor 1016 L2	0.20	1	7.80	194630	MEAN
		2	8.60	555670	
		3	9.30	1056420	
		4	9.60	326605	
		5	10.46	300940	
Aroclor 1016 L3	0.40	1	7.80	210813	MEAN
		2	8.60	525330	
		3	9.29	1015123	
		4	9.59	326355	
		5	10.46	293495	
Aroclor 1016 L4	0.80	1	7.80	199941	MEAN
		2	8.60	494208	
		3	9.29	979763	
		4	9.59	327908	
		5	10.46	297288	
Aroclor 1016 L5	1.60	1	7.80	184535	MEAN
		2	8.60	449149	
		3	9.28	902245	
		4	9.58	312696	
		5	10.45	284456	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	7.80	7.75	7.85	194800	5.8
	2	8.60	8.55	8.65	514469	8.5
	3	9.29	9.24	9.34	996908	6.0
	4	9.59	9.54	9.64	319909	3.1
	5	10.46	10.41	10.51	294080	2.1

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Instrument ID: HP_03B Date(s) Analyzed: 06/02/01 06/02/01

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

GC Column: DB-1701 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	12.48	658370	MEAN
		2	12.62	708090	
		3	13.41	619130	
		4	14.04	376260	
		5	14.28	1057300	
Aroclor 1260 L2	0.20	1	12.48	667535	MEAN
		2	12.62	721520	
		3	13.41	591330	
		4	14.05	380825	
		5	14.28	1039765	
Aroclor 1260 L3	0.40	1	12.48	631820	MEAN
		2	12.62	689078	
		3	13.41	563470	
		4	14.05	368275	
		5	14.28	1027725	
Aroclor 1260 L4	0.80	1	12.48	609386	MEAN
		2	12.62	675518	
		3	13.41	551685	
		4	14.05	367310	
		5	14.28	1052263	
Aroclor 1260 L5	1.60	1	12.48	564472	MEAN
		2	12.61	635166	
		3	13.41	534194	
		4	14.04	363103	
		5	14.27	1073112	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	12.48	12.43	12.53	626317	6.6
	2	12.62	12.57	12.67	685874	4.9
	3	13.41	13.36	13.46	571962	5.9
	4	14.05	14.00	14.10	371155	1.9
	5	14.28	14.23	14.33	1050033	1.6

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Instrument ID: HP_03A Date(s) Analyzed: 06/02/01 06/02/01

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

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

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	7.22	291475	SINGLE
		2	7.51	154078	POINT
		3	7.63	766380	
		4			
		5			
Aroclor 1232	0.40	1	7.51	136750	SINGLE
		2	8.76	290203	POINT
		3	9.42	416930	
		4	10.35	305168	
		5			
Aroclor 1248	0.40	1	9.77	2338243	SINGLE
		2	10.34	1107723	POINT
		3	10.63	219528	
		4	11.30	1175748	
		5	11.92	567458	

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Instrument ID: HP_03B Date(s) Analyzed: 06/02/01 06/02/01

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

GC Column: DB-1701 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	7.68	81175	SINGLE
		2	7.80	270310	POINT
		3	7.92	64445	
		4			
		5			
Aroclor 1232	0.40	1	7.38	88650	SINGLE
		2	7.68	63523	POINT
		3	9.16	101098	
		4	9.86	187383	
		5			
Aroclor 1248	0.40	1	9.70	80673	SINGLE
		2	9.86	461705	POINT
		3	10.82	248895	
		4	11.16	265570	
		5	11.76	129583	

FORM VI PCB-3

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Instrument ID: HP_03A Date(s) Analyzed: 06/09/01 06/09/01

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

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

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	8.76	548370	MEAN
		2	9.06	208850	
		3	9.57	695000	
		4	10.20	901490	
		5	10.75	303990	
Aroclor 1242 L2	0.20	1	8.76	502425	MEAN
		2	9.06	152755	
		3	9.57	650830	
		4	10.20	788165	
		5	10.75	257440	
Aroclor 1242 L3	0.40	1	8.75	486453	MEAN
		2	9.04	164345	
		3	9.58	610420	
		4	10.19	748693	
		5	10.74	271735	
Aroclor 1242 L4	0.80	1	8.75	474094	MEAN
		2	9.03	174429	
		3	9.58	589999	
		4	10.19	739953	
		5	10.74	296936	
Aroclor 1242 L5	1.60	1	8.75	437732	MEAN
		2	9.02	179984	
		3	9.58	544103	
		4	10.18	684989	
		5	10.73	297624	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	8.75	8.70	8.80	489815	8.3
	2	9.04	8.99	9.09	176073	12.0
	3	9.58	9.53	9.63	618070	9.3
	4	10.19	10.14	10.24	772658	10.5
	5	10.74	10.69	10.79	285545	7.0

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Instrument ID: HP_03B Date(s) Analyzed: 06/09/01 06/09/01

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

GC Column: DB-1701 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	7.80	144460	MEAN
		2	9.15	164880	
		3	9.69	183120	
		4	10.69	196580	
		5	11.07	301020	
Aroclor 1242 L2	0.20	1	7.80	157750	MEAN
		2	9.15	177440	
		3	9.69	194160	
		4	10.69	214260	
		5	11.07	292855	
Aroclor 1242 L3	0.40	1	7.80	145080	MEAN
		2	9.15	172770	
		3	9.69	166600	
		4	10.68	202815	
		5	11.06	275410	
Aroclor 1242 L4	0.80	1	7.80	145391	MEAN
		2	9.15	172214	
		3	9.69	144718	
		4	10.68	207301	
		5	11.06	283266	
Aroclor 1242 L5	1.60	1	7.80	140753	MEAN
		2	9.15	163383	
		3	9.69	98215	
		4	10.68	196578	
		5	11.05	271232	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	7.80	7.75	7.85	146687	4.4
	2	9.15	9.10	9.20	170137	3.5
	3	9.69	9.64	9.74	157363	24.1
	4	10.68	10.63	10.73	203507	3.7
	5	11.06	11.01	11.11	284757	4.3

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Instrument ID: HP_03A Date(s) Analyzed: 06/09/01 06/09/01

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

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

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	9.75	1074390	MEAN
		2	11.62	333590	
		3	12.41	668450	
		4	12.75	273710	
		5	13.12	1484760	
Aroclor 1254 L2	0.20	1	9.75	1135760	MEAN
		2	11.62	504965	
		3	12.41	974135	
		4	12.75	423000	
		5	13.12	1724800	
Aroclor 1254 L3	0.40	1	9.75	939540	MEAN
		2	11.61	458728	
		3	12.40	938008	
		4	12.75	405645	
		5	13.12	1594738	
Aroclor 1254 L4	0.80	1	9.74	849209	MEAN
		2	11.61	437851	
		3	12.40	902419	
		4	12.75	379299	
		5	13.11	1480706	
Aroclor 1254 L5	1.60	1	9.74	782636	MEAN
		2	11.60	425075	
		3	12.37	904244	
		4	12.75	348389	
		5	13.11	1212806	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	9.74	9.69	9.79	956307	15.5
	2	11.61	11.56	11.66	432042	14.5
	3	12.40	12.35	12.45	877451	13.7
	4	12.75	12.70	12.80	366009	16.1
	5	13.12	13.07	13.17	1499562	12.6

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Instrument ID: HP_03B Date(s) Analyzed: 06/09/01 06/09/01

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

GC Column: DB-1701 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	10.48	126620	MEAN
		2	11.42	332520	
		3	12.01	293730	
		4	12.20	756200	
		5	12.63	495900	
Aroclor 1254 L2	0.20	1	10.47	155615	MEAN
		2	11.42	384705	
		3	12.01	344130	
		4	12.20	883955	
		5	12.63	570295	
Aroclor 1254 L3	0.40	1	10.47	142273	MEAN
		2	11.41	371488	
		3	12.00	322975	
		4	12.20	825438	
		5	12.63	529760	
Aroclor 1254 L4	0.80	1	10.46	138206	MEAN
		2	11.41	356924	
		3	12.00	310820	
		4	12.19	855175	
		5	12.62	493431	
Aroclor 1254 L5	1.60	1	10.46	135924	MEAN
		2	11.41	248148	
		3	12.00	293266	
		4	12.19	724739	
		5	12.62	438169	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	10.46	10.41	10.51	139728	7.6
	2	11.41	11.36	11.46	338757	16.0
	3	12.00	11.95	12.05	312984	6.8
	4	12.20	12.15	12.25	809101	8.3
	5	12.63	12.58	12.68	505511	9.7

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Instrument ID: HP_03A Date(s) Analyzed: 06/09/01 06/09/01

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

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

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	7.64	367200	MEAN
		2	8.32	1041400	
		3	8.76	649470	
		4	9.57	1166290	
		5	10.21	1128750	
Aroclor 1016 L2	0.20	1	7.64	398130	MEAN
		2	8.32	1201710	
		3	8.76	653860	
		4	9.57	915390	
		5	10.21	1073465	
Aroclor 1016 L3	0.40	1	7.63	418495	MEAN
		2	8.32	1214073	
		3	8.76	649405	
		4	9.58	868173	
		5	10.20	1048470	
Aroclor 1016 L4	0.80	1	7.63	411671	MEAN
		2	8.32	1149461	
		3	8.76	605720	
		4	9.58	785031	
		5	10.20	957539	
Aroclor 1016 L5	1.60	1	7.62	389983	MEAN
		2	8.31	1030110	
		3	8.76	543502	
		4	9.58	702136	
		5	10.19	878203	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	7.63	7.58	7.68	397096	5.1
	2	8.32	8.27	8.37	1127351	7.7
	3	8.76	8.71	8.81	620391	7.6
	4	9.58	9.53	9.63	887404	19.8
	5	10.20	10.15	10.25	1017285	9.8

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Instrument ID: HP_03A Date(s) Analyzed: 06/09/01 06/09/01

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

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

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	12.17	1349880	MEAN
		2	12.55	1177980	
		3	13.16	1872470	
		4	13.68	657390	
		5	14.15	1548100	
Aroclor 1260 L2	0.20	1	12.16	1354975	MEAN
		2	12.55	1291500	
		3	13.16	2006275	
		4	13.68	688135	
		5	14.15	1604645	
Aroclor 1260 L3	0.40	1	12.16	1367418	MEAN
		2	12.54	1361695	
		3	13.15	2127223	
		4	13.67	728350	
		5	14.15	1695345	
Aroclor 1260 L4	0.80	1	12.16	1214689	MEAN
		2	12.54	1254115	
		3	13.15	1989738	
		4	13.67	677508	
		5	14.14	1595515	
Aroclor 1260 L5	1.60	1	12.16	1125029	MEAN
		2	12.53	1203813	
		3	13.15	2097412	
		4	13.67	674816	
		5	14.14	1611657	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	12.16	12.11	12.21	1282398	8.4
	2	12.54	12.49	12.59	1257821	5.8
	3	13.15	13.10	13.20	2018623	5.0
	4	13.67	13.62	13.72	685240	3.9
	5	14.15	14.10	14.20	1611052	3.3

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Instrument ID: HP_03B Date(s) Analyzed: 06/09/01 06/09/01

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

GC Column: DB-1701 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	7.80	156310	MEAN
		2	8.60	506720	
		3	9.15	197710	
		4	9.88	323060	
		5	11.18	247300	
Aroclor 1016 L2	0.20	1	7.80	173000	MEAN
		2	8.60	526630	
		3	9.15	217895	
		4	9.88	365410	
		5	11.18	263975	
Aroclor 1016 L3	0.40	1	7.80	181478	MEAN
		2	8.60	529135	
		3	9.15	230130	
		4	9.88	400818	
		5	11.17	284883	
Aroclor 1016 L4	0.80	1	7.80	180323	MEAN
		2	8.60	501701	
		3	9.15	225041	
		4	9.87	391753	
		5	11.17	266000	
Aroclor 1016 L5	1.60	1	7.80	159782	MEAN
		2	8.60	454957	
		3	9.15	209079	
		4	9.87	376266	
		5	11.17	244902	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	7.80	7.75	7.85	170178	6.8
	2	8.60	8.55	8.65	503829	5.9
	3	9.15	9.10	9.20	215971	6.0
	4	9.88	9.83	9.93	371461	8.2
	5	11.17	11.12	11.22	261412	6.2

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Instrument ID: HP_03B Date(s) Analyzed: 06/09/01 06/09/01

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

GC Column: DB-1701 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	12.49	680990	MEAN
		2	12.64	704400	
		3	13.42	1070480	
		4	14.05	442660	
		5	14.29	1075740	
Aroclor 1260 L2	0.20	1	12.49	741565	MEAN
		2	12.63	772090	
		3	13.42	1123810	
		4	14.05	468125	
		5	14.29	1111760	
Aroclor 1260 L3	0.40	1	12.49	756653	MEAN
		2	12.63	802085	
		3	13.42	1162585	
		4	14.05	501095	
		5	14.29	1184405	
Aroclor 1260 L4	0.80	1	12.49	691448	MEAN
		2	12.63	744398	
		3	13.42	1076563	
		4	14.05	472718	
		5	14.29	1109025	
Aroclor 1260 L5	1.60	1	12.48	641346	MEAN
		2	12.62	705979	
		3	13.42	1042701	
		4	14.05	476559	
		5	14.28	1120945	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	12.49	12.44	12.54	702400	6.7
	2	12.63	12.58	12.68	745790	5.7
	3	13.42	13.37	13.47	1095228	4.3
	4	14.05	14.00	14.10	472231	4.4
	5	14.29	14.24	14.34	1120375	3.5

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Instrument ID: HP_03A Date(s) Analyzed: 06/09/01 06/09/01

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

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

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	7.20	416175	SINGLE
		2	7.50	194428	POINT
		3	7.62	1014483	
		4			
		5			
Aroclor 1232	0.40	1	7.50	159320	SINGLE
		2	8.75	319438	POINT
		3	9.42	421910	
		4	10.36	295388	
		5			
Aroclor 1248	0.40	1	9.78	2227430	SINGLE
		2	10.36	985060	POINT
		3	10.64	180580	
		4	11.32	1054463	
		5	11.93	482068	

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Instrument ID: HP_03B Date(s) Analyzed: 06/09/01 06/09/01

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

GC Column: DB-1701 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	7.67	76250	SINGLE
		2	7.80	264308	POINT
		3	7.91	104328	
		4			
		5			
Aroclor 1232	0.40	1	7.37	91575	SINGLE
		2	7.67	62788	POINT
		3	9.15	105253	
		4	9.87	161723	
		5			
Aroclor 1248	0.40	1	9.70	108833	SINGLE
		2	9.87	358870	POINT
		3	10.86	135548	
		4	11.17	363935	
		5	11.76	152295	

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

GC Column: DB-17 ID: 0.32(mm) Init. Calib Date(s): 06/02/01 06/02/01

Client Sample No.(PIBLK): PIBLKAL Date Analyzed : 06/07/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1520

Client Sample No.: AR1660L3BB Date Analyzed : 06/07/01

Lab Sample ID : 5-445-6 Time Analyzed : 1545

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.62	7.58	7.68	556300	524271	6.1
Aroclor 1016 #2	8.31	8.27	8.37	1409478	1121010	25.7*
Aroclor 1016 #3	9.19	9.13	9.23	2425425	1881820	28.9*
Aroclor 1016 #4	9.59	9.54	9.64	699550	676685	3.4
Aroclor 1016 #5	10.19	10.14	10.24	1044618	922881	13.2
Aroclor 1260 #1	12.15	12.11	12.21	1205630	1138200	5.9
Aroclor 1260 #2	12.52	12.48	12.58	1332455	1220320	9.2
Aroclor 1260 #3	13.14	13.11	13.21	1144425	1017500	12.5
Aroclor 1260 #4	13.66	13.63	13.73	775523	707933	9.6
Aroclor 1260 #5	14.13	14.09	14.19	1983375	1657330	19.7*

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

GC Column: DB-1701 ID: 0.32(mm) Init. Calib Date(s): 06/02/01 06/02/01

Client Sample No.(PIBLK): PIBLKAL Date Analyzed : 06/07/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1520

Client Sample No.: AR1660L3BB Date Analyzed : 06/07/01

Lab Sample ID : 5-445-6 Time Analyzed : 1545

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.80	7.75	7.85	236135	194800	21.2*
Aroclor 1016 #2	8.60	8.55	8.65	607050	514469	18.0*
Aroclor 1016 #3	9.30	9.24	9.34	1185998	996908	19.0*
Aroclor 1016 #4	9.60	9.54	9.64	364705	319909	14.0
Aroclor 1016 #5	10.46	10.41	10.51	327360	294080	11.3
Aroclor 1260 #1	12.48	12.43	12.53	723845	626317	15.6*
Aroclor 1260 #2	12.62	12.57	12.67	786815	685874	14.7
Aroclor 1260 #3	13.41	13.36	13.46	692518	571962	21.1*
Aroclor 1260 #4	14.04	14.00	14.10	437663	371155	17.9*
Aroclor 1260 #5	14.27	14.23	14.33	1262480	1050030	20.2*

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

GC Column: DB-17 ID: 0.32(mm) Init. Calib Date(s): 06/02/01 06/02/01

Client Sample No.(PIBLK): PIBLKAL Date Analyzed : 06/07/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1520

Client Sample No.: AR1660L3BC Date Analyzed : 06/07/01

Lab Sample ID : 5-445-6 Time Analyzed : 1610

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.62	7.58	7.68	536468	524271	2.3
Aroclor 1016 #2	8.31	8.27	8.37	1330433	1121010	18.7*
Aroclor 1016 #3	9.19	9.13	9.23	2382385	1881820	26.6*
Aroclor 1016 #4	9.59	9.54	9.64	687345	676685	1.6
Aroclor 1016 #5	10.19	10.14	10.24	1024340	922881	11.0
Aroclor 1260 #1	12.15	12.11	12.21	1174763	1138200	3.2
Aroclor 1260 #2	12.53	12.48	12.58	1306560	1220320	7.1
Aroclor 1260 #3	13.14	13.11	13.21	1157603	1017500	13.8
Aroclor 1260 #4	13.66	13.63	13.73	765198	707933	8.1
Aroclor 1260 #5	14.13	14.09	14.19	1954610	1657330	17.9*

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

GC Column: DB-1701 ID: 0.32(mm) Init. Calib Date(s): 06/02/01 06/02/01

Client Sample No.(PIBLK): PIBLKAL Date Analyzed : 06/07/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1520

Client Sample No.: AR1660L3BC Date Analyzed : 06/07/01

Lab Sample ID : 5-445-6 Time Analyzed : 1610

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.80	7.75	7.85	225198	194800	15.6*
Aroclor 1016 #2	8.60	8.55	8.65	585793	514469	13.9
Aroclor 1016 #3	9.30	9.24	9.34	1149238	996908	15.3*
Aroclor 1016 #4	9.60	9.54	9.64	353813	319909	10.6
Aroclor 1016 #5	10.46	10.41	10.51	317688	294080	8.0
Aroclor 1260 #1	12.48	12.43	12.53	703928	626317	12.4
Aroclor 1260 #2	12.62	12.57	12.67	766418	685874	11.7
Aroclor 1260 #3	13.41	13.36	13.46	674633	571962	18.0*
Aroclor 1260 #4	14.04	14.00	14.10	425350	371155	14.6
Aroclor 1260 #5	14.27	14.23	14.33	1225535	1050030	16.7*

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

GC Column: DB-17 ID: 0.32(mm) Init. Calib Date(s): 06/02/01 06/02/01

Client Sample No.(PIBLK): PIBLKAN Date Analyzed : 06/08/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0049

Client Sample No.: AR1660L3BF Date Analyzed : 06/08/01

Lab Sample ID : 5-445-6 Time Analyzed : 0114

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.62	7.58	7.68	505338	524271	3.6
Aroclor 1016 #2	8.32	8.27	8.37	1238388	1121010	10.5
Aroclor 1016 #3	9.20	9.13	9.23	2147788	1881820	14.1
Aroclor 1016 #4	9.59	9.54	9.64	616008	676685	9.0
Aroclor 1016 #5	10.19	10.14	10.24	889993	922881	3.6
Aroclor 1260 #1	12.16	12.11	12.21	1065128	1138200	6.4
Aroclor 1260 #2	12.53	12.48	12.58	1122305	1220320	8.0
Aroclor 1260 #3	13.15	13.11	13.21	1045783	1017500	2.8
Aroclor 1260 #4	13.67	13.63	13.73	661998	707933	6.5
Aroclor 1260 #5	14.14	14.09	14.19	1733228	1657330	4.6

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

GC Column: DB-1701 ID: 0.32(mm) Init. Calib Date(s): 06/02/01 06/02/01

Client Sample No.(PIBLK): PIBLKAN Date Analyzed : 06/08/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0049

Client Sample No.: AR1660L3BF Date Analyzed : 06/08/01

Lab Sample ID : 5-445-6 Time Analyzed : 0114

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.80	7.75	7.85	214920	194800	10.3
Aroclor 1016 #2	8.60	8.55	8.65	558643	514469	8.6
Aroclor 1016 #3	9.30	9.24	9.34	1086580	996908	9.0
Aroclor 1016 #4	9.61	9.54	9.64	320258	319909	0.1
Aroclor 1016 #5	10.46	10.41	10.51	286118	294080	2.7
Aroclor 1260 #1	12.48	12.43	12.53	637515	626317	1.8
Aroclor 1260 #2	12.62	12.57	12.67	696378	685874	1.5
Aroclor 1260 #3	13.41	13.36	13.46	626180	571962	9.5
Aroclor 1260 #4	14.05	14.00	14.10	384128	371155	3.5
Aroclor 1260 #5	14.28	14.23	14.33	1116713	1050030	6.4

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

GC Column: DB-17 ID: 0.32(mm) Init. Calib Date(s): 06/02/01 06/02/01

Client Sample No.(PIBLK): PIBLKAO Date Analyzed : 06/08/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0636

Client Sample No.: AR1660L3BH Date Analyzed : 06/08/01

Lab Sample ID : 5-445-6 Time Analyzed : 0700

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.62	7.58	7.68	511198	524271	2.5
Aroclor 1016 #2	8.32	8.27	8.37	1284075	1121010	14.5
Aroclor 1016 #3	9.20	9.13	9.23	2240463	1881820	19.0*
Aroclor 1016 #4	9.59	9.54	9.64	644210	676685	4.8
Aroclor 1016 #5	10.19	10.14	10.24	912313	922881	1.1
Aroclor 1260 #1	12.16	12.11	12.21	1041400	1138200	8.5
Aroclor 1260 #2	12.53	12.48	12.58	1136323	1220320	6.9
Aroclor 1260 #3	13.15	13.11	13.21	1060763	1017500	4.3
Aroclor 1260 #4	13.67	13.63	13.73	671763	707933	5.1
Aroclor 1260 #5	14.14	14.09	14.19	1720905	1657330	3.8

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

GC Column: DB-1701 ID: 0.32(mm) Init. Calib Date(s): 06/02/01 06/02/01

Client Sample No.(PIBLK): PIBLKAO Date Analyzed : 06/08/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0636

Client Sample No.: AR1660L3BH Date Analyzed : 06/08/01

Lab Sample ID : 5-445-6 Time Analyzed : 0700

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.80	7.75	7.85	214173	194800	9.9
Aroclor 1016 #2	8.60	8.55	8.65	561193	514469	9.1
Aroclor 1016 #3	9.31	9.24	9.34	1091518	996908	9.5
Aroclor 1016 #4	9.61	9.54	9.64	317515	319909	0.7
Aroclor 1016 #5	10.46	10.41	10.51	282028	294080	4.1
Aroclor 1260 #1	12.48	12.43	12.53	630003	626317	0.6
Aroclor 1260 #2	12.62	12.57	12.67	678903	685874	1.0
Aroclor 1260 #3	13.42	13.36	13.46	641585	571962	12.2
Aroclor 1260 #4	14.05	14.00	14.10	377558	371155	1.7
Aroclor 1260 #5	14.28	14.23	14.33	1094563	1050030	4.2

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

GC Column: DB-17 ID: 0.32(mm) Init. Calib Date(s): 06/02/01 06/02/01

Client Sample No.(PIBLK): PIBLKAP Date Analyzed : 06/08/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1747

Client Sample No.: AR1660L3BL Date Analyzed : 06/08/01

Lab Sample ID : 5-445-6 Time Analyzed : 1812

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.62	7.58	7.68	497598	524271	5.1
Aroclor 1016 #2	8.32	8.27	8.37	1314135	1121010	17.2*
Aroclor 1016 #3	9.20	9.13	9.23	2217805	1881820	17.8*
Aroclor 1016 #4	9.59	9.54	9.64	661760	676685	2.2
Aroclor 1016 #5	10.19	10.14	10.24	950910	922881	3.0
Aroclor 1260 #1	12.16	12.11	12.21	1116815	1138200	1.9
Aroclor 1260 #2	12.53	12.48	12.58	1281235	1220320	5.0
Aroclor 1260 #3	13.15	13.11	13.21	1168960	1017500	14.9
Aroclor 1260 #4	13.67	13.63	13.73	745093	707933	5.3
Aroclor 1260 #5	14.14	14.09	14.19	1823465	1657330	10.0

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

GC Column: DB-1701 ID: 0.32(mm) Init. Calib Date(s): 06/02/01 06/02/01

Client Sample No.(PIBLK): PIBLKAP Date Analyzed : 06/08/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1747

Client Sample No.: AR1660L3BL Date Analyzed : 06/08/01

Lab Sample ID : 5-445-6 Time Analyzed : 1812

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.80	7.75	7.85	204830	194800	5.2
Aroclor 1016 #2	8.60	8.55	8.65	548568	514469	6.6
Aroclor 1016 #3	9.30	9.24	9.34	1075888	996908	7.9
Aroclor 1016 #4	9.61	9.54	9.64	305575	319909	4.5
Aroclor 1016 #5	10.46	10.41	10.51	277968	294080	5.5
Aroclor 1260 #1	12.48	12.43	12.53	611623	626317	2.4
Aroclor 1260 #2	12.62	12.57	12.67	696938	685874	1.6
Aroclor 1260 #3	13.41	13.36	13.46	673705	571962	17.8*
Aroclor 1260 #4	14.04	14.00	14.10	402118	371155	8.3
Aroclor 1260 #5	14.27	14.23	14.33	1195115	1050030	13.8

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

GC Column: DB-17 ID: 0.32(mm) Init. Calib Date(s): 06/09/01 06/09/01

Client Sample No.(PIBLK): PIBLK3D Date Analyzed : 06/10/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0547

Client Sample No.: AR1660L33D Date Analyzed : 06/10/01

Lab Sample ID : 5-29-7 Time Analyzed : 0611

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.64	7.58	7.68	429705	397096	8.2
Aroclor 1016 #2	8.32	8.27	8.37	1249315	1127350	10.8
Aroclor 1016 #3	8.76	8.71	8.81	599275	620391	3.4
Aroclor 1016 #4	9.58	9.53	9.63	716050	887404	19.3*
Aroclor 1016 #5	10.20	10.15	10.25	893283	1017290	12.2
Aroclor 1260 #1	12.16	12.11	12.21	1173505	1282400	8.5
Aroclor 1260 #2	12.53	12.49	12.59	1176835	1257820	6.4
Aroclor 1260 #3	13.15	13.10	13.20	1891920	2018620	6.3
Aroclor 1260 #4	13.67	13.62	13.72	631213	685240	7.9
Aroclor 1260 #5	14.14	14.10	14.20	1583425	1611050	1.7

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

GC Column: DB-1701 ID: 0.32 (mm) Init. Calib Date(s): 06/09/01 06/09/01

Client Sample No.(PIBLK): PIBLK3D Date Analyzed : 06/10/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0547

Client Sample No.: AR1660L33D Date Analyzed : 06/10/01

Lab Sample ID : 5-29-7 Time Analyzed : 0611

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.80	7.75	7.85	188473	170178	10.8
Aroclor 1016 #2	8.60	8.55	8.65	535290	503829	6.2
Aroclor 1016 #3	9.16	9.10	9.20	232320	215971	7.6
Aroclor 1016 #4	9.88	9.83	9.93	396583	371461	6.8
Aroclor 1016 #5	11.17	11.12	11.22	246623	261412	5.7
Aroclor 1260 #1	12.49	12.44	12.54	689540	702400	1.8
Aroclor 1260 #2	12.63	12.58	12.68	731055	745790	2.0
Aroclor 1260 #3	13.42	13.37	13.47	1036938	1095230	5.3
Aroclor 1260 #4	14.05	14.00	14.10	488818	472231	3.5
Aroclor 1260 #5	14.28	14.24	14.34	1109420	1120380	1.0

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

GC Column: DB-17 ID: 0.32(mm) Init. Calib Date(s): 06/09/01 06/09/01

Client Sample No.(PIBLK): PIBLK3E Date Analyzed : 06/10/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1108

Client Sample No.: AR1660L33F Date Analyzed : 06/10/01

Lab Sample ID : 5-29-7 Time Analyzed : 1132

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.64	7.58	7.68	498680	397096	25.6*
Aroclor 1016 #2	8.32	8.27	8.37	1397588	1127350	24.0*
Aroclor 1016 #3	8.76	8.71	8.81	750390	620391	21.0*
Aroclor 1016 #4	9.58	9.53	9.63	877455	887404	1.1
Aroclor 1016 #5	10.20	10.15	10.25	1118875	1017290	10.0
Aroclor 1260 #1	12.16	12.11	12.21	1362250	1282400	6.2
Aroclor 1260 #2	12.53	12.49	12.59	1480125	1257820	17.7*
Aroclor 1260 #3	13.15	13.10	13.20	2373338	2018620	17.6*
Aroclor 1260 #4	13.67	13.62	13.72	797410	685240	16.4*
Aroclor 1260 #5	14.14	14.10	14.20	1984038	1611050	23.2*

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

GC Column: DB-1701 ID: 0.32(mm) Init. Calib Date(s): 06/09/01 06/09/01

Client Sample No.(PIBLK): PIBLK3E Date Analyzed : 06/10/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1108

Client Sample No.: AR1660L33F Date Analyzed : 06/10/01

Lab Sample ID : 5-29-7 Time Analyzed : 1132

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.80	7.75	7.85	237350	170178	39.5*
Aroclor 1016 #2	8.60	8.55	8.65	586720	503829	16.4*
Aroclor 1016 #3	9.16	9.10	9.20	254765	215971	18.0*
Aroclor 1016 #4	9.88	9.83	9.93	439980	371461	18.4*
Aroclor 1016 #5	11.17	11.12	11.22	294293	261412	12.6
Aroclor 1260 #1	12.49	12.44	12.54	827900	702400	17.9*
Aroclor 1260 #2	12.63	12.58	12.68	882190	745790	18.3*
Aroclor 1260 #3	13.42	13.37	13.47	869215	1095230	20.6*
Aroclor 1260 #4	14.05	14.00	14.10	591995	472231	25.4*
Aroclor 1260 #5	14.28	14.24	14.34	1371545	1120380	22.4*

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

GC Column: DB-17 ID: 0.32(mm) Init. Calib Date(s): 06/09/01 06/09/01

Client Sample No.(PIBLK): PIBLK3E Date Analyzed : 06/10/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1108

Client Sample No.: AR1660L33G Date Analyzed : 06/10/01

Lab Sample ID : 5-29-7 Time Analyzed : 1157

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.64	7.58	7.68	460750	397096	16.0*
Aroclor 1016 #2	8.32	8.27	8.37	1301535	1127350	15.4*
Aroclor 1016 #3	8.76	8.71	8.81	693705	620391	11.8
Aroclor 1016 #4	9.58	9.53	9.63	843260	887404	5.0
Aroclor 1016 #5	10.20	10.15	10.25	1066678	1017290	4.9
Aroclor 1260 #1	12.16	12.11	12.21	1274093	1282400	0.6
Aroclor 1260 #2	12.53	12.49	12.59	1363148	1257820	8.4
Aroclor 1260 #3	13.15	13.10	13.20	2199318	2018620	8.9
Aroclor 1260 #4	13.67	13.62	13.72	745098	685240	8.7
Aroclor 1260 #5	14.14	14.10	14.20	1826930	1611050	13.4

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

GC Column: DB-1701 ID: 0.32(mm) Init. Calib Date(s): 06/09/01 06/09/01

Client Sample No.(PIBLK): PIBLK3E Date Analyzed : 06/10/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1108

Client Sample No.: AR1660L33G Date Analyzed : 06/10/01

Lab Sample ID : 5-29-7 Time Analyzed : 1157

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	7.80	7.75	7.85	221433	170178	30.1*
Aroclor 1016 #2	8.60	8.55	8.65	553995	503829	10.0
Aroclor 1016 #3	9.16	9.10	9.20	241925	215971	12.0
Aroclor 1016 #4	9.88	9.83	9.93	411433	371461	10.8
Aroclor 1016 #5	11.17	11.12	11.22	278735	261412	6.6
Aroclor 1260 #1	12.49	12.44	12.54	784598	702400	11.7
Aroclor 1260 #2	12.63	12.58	12.68	827975	745790	11.0
Aroclor 1260 #3	13.41	13.37	13.47	823530	1095230	24.8*
Aroclor 1260 #4	14.05	14.00	14.10	443858	472231	6.0
Aroclor 1260 #5	14.28	14.24	14.34	1271870	1120380	13.5

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

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E30C0

GC Column: DB-17 ID: 0.32(mm) Init. Calib. Date(s):

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	RESC3B	5-441-6	06/02/01	1356	6.46	17.14
02	AR1221L3B	5-420-6	06/02/01	1421	6.46	17.14
03	AR1232L3B	5-422-6	06/02/01	1446	6.45	17.14
04	AR1242L1B	5-11-7	06/02/01	1510	6.45	17.14
05	AR1242L2B	5-10-7	06/02/01	1535	6.45	17.13
06	AR1242L3B	5-9-7	06/02/01	1600	6.45	17.13
07	AR1242L4B	5-8-7	06/02/01	1624	6.45	17.13
08	AR1242L5B	5-7-7	06/02/01	1649	6.45	17.13
09	AR1248L3B	5-424-6	06/02/01	1714	6.45	17.13
10	AR1254L1B	5-6-7	06/02/01	1738	6.45	17.13
11	AR1254L2B	5-5-7	06/02/01	1803	6.45	17.13
12	AR1254L3B	5-4-7	06/02/01	1828	6.45	17.13
13	AR1254L4B	5-3-7	06/02/01	1853	6.45	17.13
14	AR1254L5B	5-2-7	06/02/01	1917	6.45	17.13
15	AR1660L1B	5-447-6	06/02/01	1942	6.45	17.14
16	AR1660L2B	5-446-6	06/02/01	2007	6.45	17.14
17	AR1660L3R	5-445-6	06/02/01	2031	6.45	17.14
18	AR1660L4B	5-444-6	06/02/01	2056	6.45	17.14
19	AR1660L5B	5-443-6	06/02/01	2121	6.45	17.14
20	PIBLKK	5-414-6	06/02/01	2145	6.45	17.14
21	PIBLKAL	5-414-6	06/07/01	1520	6.44	17.12
22	AR1660L3BB	5-445-6	06/07/01	1545	6.44	17.12
23	AR1660L3BC	5-445-6	06/07/01	1610	6.45	17.12
24	PBLKSE	BL0601SE	06/07/01	1724	6.44	17.11
25	ELCS1	LC0601SE	06/07/01	1814	6.44	17.11
26	ELCS2	LD0601SE	06/07/01	1838	6.44	17.11
27	E30C3	46663.08	06/07/01	2246	6.44	17.12
28	PIBLKAN	5-414-6	06/08/01	0049	6.45	17.13
29	AR1660L3BF	5-445-6	06/08/01	0114	6.45	17.13
30	E30D3	46663.13	06/08/01	0318	6.45	17.13
31	E30D4	46663.14	06/08/01	0342	6.45	17.13
32	E30D5	46663.15	06/08/01	0407	6.45	17.13
33	E30D6	46663.16	06/08/01	0432	6.45	17.12
34	E30D7	46663.17	06/08/01	0457	6.45	17.13
35	PIBLKAO	5-414-6	06/08/01	0636	6.45	17.13

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

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E30C0

GC Column: DB-17 ID: 0.32(mm) Init. Calib. Date(s):

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	AR1660L3BH	5-445-6	06/08/01	0700	6.45	17.13
02	E30D8	46663.18	06/08/01	0750	6.45	17.12
03	E30D9	46663.19	06/08/01	0814	6.45	17.13
04	E30E0	46663.20	06/08/01	0849	6.46	17.14
05	E30E1	46663.21	06/08/01	0913	6.45	17.13
06	E30E2	46663.22	06/08/01	1201	6.47	17.16
07	PIBLKAP	5-414-6	06/08/01	1747	6.45	17.12
08	AR1660L3BL	5-445-6	06/08/01	1812	6.45	17.12
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TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E30C0

GC Column: DB-1701 ID: 0.32(mm) Init. Calib. Date(s):

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	RESC3B	5-441-6	06/02/01	1356	6.48	18.42
02	AR1221L3B	5-420-6	06/02/01	1421	6.48	18.42
03	AR1232L3B	5-422-6	06/02/01	1446	6.47	18.42
04	AR1242L1B	5-11-7	06/02/01	1510	6.48	18.42
05	AR1242L2B	5-10-7	06/02/01	1535	6.47	18.42
06	AR1242L3B	5-9-7	06/02/01	1600	6.47	18.41
07	AR1242L4B	5-8-7	06/02/01	1624	6.47	18.42
08	AR1242L5B	5-7-7	06/02/01	1649	6.47	18.41
09	AR1248L3B	5-424-6	06/02/01	1714	6.47	18.42
10	AR1254L1B	5-6-7	06/02/01	1738	6.47	18.42
11	AR1254L2B	5-5-7	06/02/01	1803	6.47	18.42
12	AR1254L3B	5-4-7	06/02/01	1828	6.47	18.41
13	AR1254L4B	5-3-7	06/02/01	1853	6.47	18.41
14	AR1254L5B	5-2-7	06/02/01	1917	6.47	18.42
15	AR1660L1B	5-447-6	06/02/01	1942	6.47	18.42
16	AR1660L2B	5-446-6	06/02/01	2007	6.47	18.42
17	AR1660L3R	5-445-6	06/02/01	2031	6.47	18.42
18	AR1660L4B	5-444-6	06/02/01	2056	6.47	18.42
19	AR1660L5B	5-443-6	06/02/01	2121	6.47	18.42
20	PIBLKK	5-414-6	06/02/01	2145	6.47	18.42
21	PIBLKAL	5-414-6	06/07/01	1520	6.47	18.40
22	AR1660L3BB	5-445-6	06/07/01	1545	6.47	18.40
23	AR1660L3BC	5-445-6	06/07/01	1610	6.47	18.40
24	PBLKSE	BL0601SE	06/07/01	1724	6.47	18.39
25	ELCS1	LC0601SE	06/07/01	1814	6.47	18.39
26	ELCS2	LD0601SE	06/07/01	1838	6.47	18.39
27	E30C3	46663.08	06/07/01	2246	6.47	18.41
28	PIBLKAN	5-414-6	06/08/01	0049	6.47	18.42
29	AR1660L3BF	5-445-6	06/08/01	0114	6.47	18.42
30	E30D3	46663.13	06/08/01	0318	6.48	18.42
31	E30D4	46663.14	06/08/01	0342	6.47	18.42
32	E30D5	46663.15	06/08/01	0407	6.48	18.42
33	E30D6	46663.16	06/08/01	0432	6.47	18.42
34	E30D7	46663.17	06/08/01	0457	6.47	18.41
35	PIBLKAO	5-414-6	06/08/01	0636	6.47	18.42

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

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E30C0

GC Column: DB-1701 ID: 0.32(mm) Init. Calib. Date(s):

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	AR1660L3BH	5-445-6	06/08/01	0700	6.48	18.42
02	E30D8	46663.18	06/08/01	0750	6.47	18.41
03	E30D9	46663.19	06/08/01	0814	6.48	18.42
04	E30E0	46663.20	06/08/01	0849	6.48	18.42
05	E30E1	46663.21	06/08/01	0913	6.48	18.41
06	E30E2	46663.22	06/08/01	1201	6.48	18.44
07	PIBLKAP	5-414-6	06/08/01	1747	6.47	18.41
08	AR1660L3BL	5-445-6	06/08/01	1812	6.47	18.40
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TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

FORM VIII PCB

142A

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E30C0

GC Column: DB-17 ID: 0.32(mm) Init. Calib. Date(s):

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	RESC3C	5-441-6	06/09/01	1433	6.45	17.12
02	AR1221L33C	5-420-6	06/09/01	1458	6.45	17.12
03	AR1232L33C	5-422-6	06/09/01	1523	6.44	17.12
04	AR1242L13C	5-11-7	06/09/01	1548	6.45	17.12
05	AR1242L23C	5-10-7	06/09/01	1612	6.45	17.12
06	AR1242L33C	5-9-7	06/09/01	1637	6.44	17.12
07	AR1242L43C	5-8-7	06/09/01	1702	6.44	17.12
08	AR1242L53C	5-7-7	06/09/01	1726	6.44	17.12
09	AR1248L33C	5-424-6	06/09/01	1751	6.44	17.12
10	AR1254L13C	5-6-7	06/09/01	1816	6.44	17.12
11	AR1254L23C	5-5-7	06/09/01	1841	6.45	17.12
12	AR1254L33C	5-4-7	06/09/01	1905	6.44	17.12
13	AR1254L43C	5-3-7	06/09/01	1930	6.44	17.12
14	AR1254L53C	5-2-7	06/09/01	1955	6.44	17.12
15	AR1660L13C	5-31-7	06/09/01	2019	6.45	17.12
16	AR1660L23C	5-30-7	06/09/01	2044	6.45	17.13
17	AR1660L33V	5-29-7	06/09/01	2109	6.45	17.13
18	AR1660L43C	5-28-7	06/09/01	2134	6.45	17.13
19	AR1660L53C	5-27-7	06/09/01	2158	6.45	17.13
20	PIBLK3C	5-414-6	06/09/01	2223	6.45	17.13
21	PBLKSS	BB0601SS	06/10/01	0115	6.45	17.12
22	E30C0	46663.03	06/10/01	0140	6.45	17.11
23	E30C0MS	46663.04MS	06/10/01	0205	6.45	17.11
24	E30C0MSD	46663.05MSD	06/10/01	0229	6.45	17.11
25	E30C1	46663.06	06/10/01	0254	6.44	17.13
26	E30C2	46663.07	06/10/01	0319	6.45	17.13
27	E30C4	46663.09	06/10/01	0343	6.45	17.12
28	E30C5	46663.10	06/10/01	0408	6.45	17.13
29	PIBLK3D	5-414-6	06/10/01	0547	6.45	17.12
30	AR1660L33D	5-29-7	06/10/01	0611	6.45	17.12
31	E30C6	46663.11	06/10/01	0701	6.44	17.13
32	E30C7	46663.12	06/10/01	0725	6.45	17.12
33	E30E3	46663.23	06/10/01	0750	6.45	17.12
34	E30E4	46663.24	06/10/01	0815	6.45	17.12
35	E30D7DL	46663.17DL	06/10/01	0839	6.45	17.12

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

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E30C0

GC Column: DB-17 ID: 0.32(mm) Init. Calib. Date(s):

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	E30E1DL	46663.21DL	06/10/01	0929	6.45	17.11
02	PIBLK3E	5-414-6	06/10/01	1108	6.45	17.12
03	AR1660L33F	5-29-7	06/10/01	1132	6.45	17.12
04	AR1660L33G	5-29-7	06/10/01	1157	6.45	17.12
05						
06						
07						
08						
09						
10						
11						
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13						
14						
15						
16						
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27						
28						
29						
30						
31						
32						
33						
34						
35						

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

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E30C0

GC Column: DB-1701 ID: 0.32(mm) Init. Calib. Date(s):

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	RESC3C	5-441-6	06/09/01	1433	6.47	18.41
02	AR1221L33C	5-420-6	06/09/01	1458	6.47	18.41
03	AR1232L33C	5-422-6	06/09/01	1523	6.47	18.41
04	AR1242L13C	5-11-7	06/09/01	1548	6.47	18.41
05	AR1242L23C	5-10-7	06/09/01	1612	6.47	18.41
06	AR1242L33C	5-9-7	06/09/01	1637	6.47	18.41
07	AR1242L43C	5-8-7	06/09/01	1702	6.47	18.41
08	AR1242L53C	5-7-7	06/09/01	1726	6.47	18.41
09	AR1248L33C	5-424-6	06/09/01	1751	6.47	18.41
10	AR1254L13C	5-6-7	06/09/01	1816	6.47	18.41
11	AR1254L23C	5-5-7	06/09/01	1841	6.47	18.41
12	AR1254L33C	5-4-7	06/09/01	1905	6.47	18.41
13	AR1254L43C	5-3-7	06/09/01	1930	6.47	18.41
14	AR1254L53C	5-2-7	06/09/01	1955	6.47	18.41
15	AR1660L13C	5-31-7	06/09/01	2019	6.47	18.42
16	AR1660L23C	5-30-7	06/09/01	2044	6.47	18.42
17	AR1660L33V	5-29-7	06/09/01	2109	6.47	18.42
18	AR1660L43C	5-28-7	06/09/01	2134	6.47	18.42
19	AR1660L53C	5-27-7	06/09/01	2158	6.47	18.42
20	PIBLK3C	5-414-6	06/09/01	2223	6.47	18.42
21	PBLKSS	BB0601SS	06/10/01	0115	6.47	18.41
22	E30C0	46663.03	06/10/01	0140	6.47	18.41
23	E30C0MS	46663.04MS	06/10/01	0205	6.47	18.41
24	E30C0MSD	46663.05MSD	06/10/01	0229	6.47	18.41
25	E30C1	46663.06	06/10/01	0254	6.47	18.43
26	E30C2	46663.07	06/10/01	0319	6.48	18.43
27	E30C4	46663.09	06/10/01	0343	6.48	18.42
28	E30C5	46663.10	06/10/01	0408	6.48	18.43
29	PIBLK3D	5-414-6	06/10/01	0547	6.48	18.42
30	AR1660L33D	5-29-7	06/10/01	0611	6.48	18.42
31	E30C6	46663.11	06/10/01	0701	6.47	18.42
32	E30C7	46663.12	06/10/01	0725	6.48	18.42
33	E30E3	46663.23	06/10/01	0750	6.48	18.42
34	E30E4	46663.24	06/10/01	0815	6.48	18.42
35	E30D7DL	46663.17DL	06/10/01	0839	6.48	18.42

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

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E30C0

GC Column: DB-1701 ID: 0.32(mm) Init. Calib. Date(s):

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	E30E1DL	46663.21DL	06/10/01	0929	6.48	18.41
02	PIBLK3E	5-414-6	06/10/01	1108	6.47	18.42
03	AR1660L33F	5-29-7	06/10/01	1132	6.47	18.42
04	AR1660L33G	5-29-7	06/10/01	1157	6.47	18.41
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
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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

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Lab Sample ID: LC0601SE Date(s) Analyzed: 06/07/01 06/07/01

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

GC Column (1): DB-17 ID: 0.32(mm) GC Column (2): DB-1701 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	9.73	9.68	9.78	145		
Aroclor-1254	2	11.59	11.55	11.65	145		
	3	12.33	12.29	12.39	146		
COLUMN 1	4	12.74	12.70	12.80	123		
	5	12.90	12.86	12.96	140	140	
	1	10.45	10.40	10.50	134		
	2	11.40	11.35	11.45	149		
	3	11.98	11.94	12.04	142		
COLUMN 2	4	12.38	12.33	12.43	149		
	5	12.61	12.56	12.66	133	141	0.7
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS2

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Lab Sample ID: LD0601SE Date(s) Analyzed: 06/07/01 06/07/01

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

GC Column (1): DB-17 ID: 0.32(mm) GC Column (2): DB-1701 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	9.73	9.68	9.78	138		
Aroclor-1254	2	11.59	11.55	11.65	139		
	3	12.34	12.29	12.39	139		
COLUMN 1	4	12.74	12.70	12.80	119		
	5	12.90	12.86	12.96	131	133	
	1	10.45	10.40	10.50	133		
	2	11.40	11.35	11.45	142		
	3	11.99	11.94	12.04	134		
COLUMN 2	4	12.38	12.33	12.43	141		
	5	12.61	12.56	12.66	126	135	1.5
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30C0MS

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Lab Sample ID: 46663.04MS Date(s) Analyzed: 06/10/01 06/10/01

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

GC Column (1): DB-17 ID: 0.32(mm) GC Column (2): DB-1701 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	9.72	9.69	9.79	175		
Aroclor-1254	2	11.58	11.56	11.66	187		
	3	12.38	12.35	12.45	206		
COLUMN 1	4	12.74	12.70	12.80	163		
	5	13.09	13.07	13.17	177	182	
	1	10.45	10.41	10.51	220		
	2	11.39	11.36	11.46	156		
	3	11.98	11.95	12.05	204		
COLUMN 2	4	12.17	12.15	12.25	176		
	5	12.61	12.58	12.68	162	184	1.1
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30C0MSD

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Lab Sample ID: 46663.05MSD Date(s) Analyzed: 06/10/01 06/10/01

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

GC Column (1): DB-17 ID: 0.32(mm) GC Column (2): DB-1701 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	9.72	9.69	9.79	189		
Aroclor-1254	2	11.58	11.56	11.66	208		
	3	12.38	12.35	12.45	212		
COLUMN 1	4	12.73	12.70	12.80	193		
	5	13.09	13.07	13.17	182	197	
	1	10.45	10.41	10.51	281		
	2	11.39	11.36	11.46	174		
	3	11.98	11.95	12.05	234		
COLUMN 2	4	12.17	12.15	12.25	204		
	5	12.61	12.58	12.68	189	216	9.2
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30C1

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Lab Sample ID: 46663.06 Date(s) Analyzed: 06/10/01 06/10/01

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

GC Column (1): DB-17 ID: 0.32(mm) GC Column (2): DB-1701 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.74	8.70	8.80	448		
Aroclor-1242	2						
	3	9.56	9.53	9.63	251		
COLUMN 1	4	10.16	10.14	10.24	941		
	5					547	
	1	7.76	7.75	7.85	692		
	2	9.12	9.10	9.20	380		
	3	9.70	9.64	9.74	234		
COLUMN 2	4						
	5					435	25.7
	1						
Aroclor-1254	2	11.58	11.56	11.66	312		
	3						
COLUMN 1	4	12.73	12.70	12.80	241		
	5	13.10	13.07	13.17	184	246	
	1						
	2	11.40	11.36	11.46	316		
	3	11.99	11.95	12.05	150		
COLUMN 2	4	12.18	12.15	12.25	214		
	5	12.61	12.58	12.68	178	214	13.9
	1	12.15	12.11	12.21	162		
Aroclor-1260	2	12.52	12.49	12.59	142		
	3						
COLUMN 1	4	13.66	13.62	13.72	214		
	5	14.13	14.10	14.20	79.9	149	
	1						
	2	12.61	12.58	12.68	120		
	3	13.41	13.37	13.47	28.1		
COLUMN 2	4	14.04	14.00	14.10	31.2		
	5	14.28	14.24	14.34	71.5	62.7	81.5

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30C2

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Lab Sample ID: 46663.07 Date(s) Analyzed: 06/10/01 06/10/01

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

GC Column (1): DB-17 ID: 0.32(mm) GC Column (2): DB-1701 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.73	8.70	8.80	218		
Aroclor-1242	2						
	3	9.56	9.53	9.63	223		
COLUMN 1	4	10.16	10.14	10.24	989		
	5					477	
	1	7.76	7.75	7.85	288		
	2	9.12	9.10	9.20	361		
	3	9.70	9.64	9.74	225		
COLUMN 2	4						
	5					291	63.9
	1						
Aroclor-1254	2	11.58	11.56	11.66	354		
	3	12.39	12.35	12.45	853		
COLUMN 1	4	12.73	12.70	12.80	258		
	5	13.10	13.07	13.17	192	414	
	1						
	2	11.40	11.36	11.46	320		
	3	11.99	11.95	12.05	204		
COLUMN 2	4	12.18	12.15	12.25	238		
	5	12.61	12.58	12.68	208	242	52.4
	1	12.15	12.11	12.21	183		
Aroclor-1260	2	12.52	12.49	12.59	147		
	3						
COLUMN 1	4	13.67	13.62	13.72	242		
	5	14.13	14.10	14.20	69.8	160	
	1						
	2	12.61	12.58	12.68	141		
	3						
COLUMN 2	4	14.04	14.00	14.10	23.6		
	5	14.28	14.24	14.34	62.4	75.7	71.5

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30C3

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Lab Sample ID: 46663.08 Date(s) Analyzed: 06/07/01 06/07/01

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

GC Column (1): DB-17 ID: 0.32(mm) GC Column (2): DB-1701 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.75	8.71	8.81	52.6		
Aroclor-1242	2						
	3	9.38	9.36	9.46	32.7		
COLUMN 1	4	10.17	10.13	10.23	116		
	5	10.70	10.67	10.77	66.5	67.0	
	1	7.80	7.75	7.85	17.1		
	2	9.15	9.10	9.20	77.9		
	3	9.70	9.65	9.75	42.1		
COLUMN 2	4	10.67	10.62	10.72	86.2		
	5	11.03	10.99	11.09	110	66.7	0.4
	1						
Aroclor-1254	2	11.60	11.55	11.65	33.1		
	3	12.33	12.29	12.39	26.7		
COLUMN 1	4	12.74	12.70	12.80	14.4		
	5	12.90	12.86	12.96	12.4	21.6	
	1	10.45	10.40	10.50	180		
	2	11.40	11.35	11.45	33.7		
	3	11.99	11.94	12.04	19.8		
COLUMN 2	4	12.38	12.33	12.43	18.5		
	5	12.61	12.56	12.66	23.0	55.0	87.2
	1	12.16	12.11	12.21	20.6		
Aroclor-1260	2	12.52	12.48	12.58	14.1		
	3						
COLUMN 1	4	13.68	13.63	13.73	9.5		
	5	14.13	14.09	14.19	7.3	12.9	
	1	12.48	12.43	12.53	8.5		
	2	12.61	12.57	12.67	15.2		
	3	13.36	13.36	13.46	48.6		
COLUMN 2	4						
	5	14.27	14.23	14.33	4.2	19.1	38.8

At least 3 peaks are required for identification of multicomponent analytes

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30C4

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Lab Sample ID: 46663.09 Date(s) Analyzed: 06/10/01 06/10/01

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

GC Column (1): DB-17 ID: 0.32(mm) GC Column (2): DB-1701 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.76	8.70	8.80	22.4		
Aroclor-1242	2	9.01	8.99	9.09	69.8		
	3	9.58	9.53	9.63	20.1		
COLUMN 1	4	10.18	10.14	10.24	49.7		
	5	10.70	10.69	10.79	28.4	38.1	
	1	7.80	7.75	7.85	10.0		
	2	9.15	9.10	9.20	36.4		
	3	9.71	9.64	9.74	14.3		
COLUMN 2	4	10.68	10.63	10.73	65.0		
	5	11.04	11.01	11.11	59.1	37.0	2.9
	1						
Aroclor-1254	2	11.60	11.56	11.66	22.4		
	3	12.39	12.35	12.45	9.5		
COLUMN 1	4	12.74	12.70	12.80	4.4		
	5	13.10	13.07	13.17	9.8	11.5	
	1						
	2	11.40	11.36	11.46	15.9		
	3	11.99	11.95	12.05	8.2		
COLUMN 2	4	12.18	12.15	12.25	10.6		
	5	12.62	12.58	12.68	8.3	10.8	6.3
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30D3

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Lab Sample ID: 46663.13 Date(s) Analyzed: 06/08/01 06/08/01

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

GC Column (1): DB-17 ID: 0.32(mm) GC Column (2): DB-1701 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1254	2	11.59	11.55	11.65	494		
	3	12.32	12.29	12.39	460		
COLUMN 1	4	12.74	12.70	12.80	435		
	5	12.89	12.86	12.96	544	483	
	1						
	2	11.39	11.35	11.45	856		
	3	11.99	11.94	12.04	383		
COLUMN 2	4	12.37	12.33	12.43	457		
	5	12.61	12.56	12.66	578	568	16.2
	1	12.15	12.11	12.21	449		
Aroclor-1260	2	12.52	12.48	12.58	367		
	3						
COLUMN 1	4						
	5	14.13	14.09	14.19	235	350	
	1	12.47	12.43	12.53	217		
	2	12.61	12.57	12.67	383		
	3						
COLUMN 2	4	14.04	14.00	14.10	177		
	5	14.27	14.23	14.33	229	252	32.6
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30D4

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Lab Sample ID: 46663.14 Date(s) Analyzed: 06/08/01 06/08/01

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

GC Column (1): DB-17 ID: 0.32(mm) GC Column (2): DB-1701 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1254	2	11.59	11.55	11.65	233		
	3	12.32	12.29	12.39	168		
COLUMN 1	4	12.74	12.70	12.80	184		
	5	12.89	12.86	12.96	195	195	
	1	10.45	10.40	10.50	258		
	2	11.39	11.35	11.45	380		
	3	11.98	11.94	12.04	172		
COLUMN 2	4						
	5	12.61	12.56	12.66	240	262	29.3
	1	12.16	12.11	12.21	195		
Aroclor-1260	2	12.52	12.48	12.58	153		
	3						
COLUMN 1	4						
	5	14.13	14.09	14.19	83.6	144	
	1						
	2	12.61	12.57	12.67	159		
	3						
COLUMN 2	4	14.04	14.00	14.10	62.3		
	5	14.27	14.23	14.33	81.6	101	35.1
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30D6

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Lab Sample ID: 46663.16 Date(s) Analyzed: 06/08/01 06/08/01

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

GC Column (1): DB-17 ID: 0.32(mm) GC Column (2): DB-1701 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1254	2	11.60	11.55	11.65	73.4		
	3	12.32	12.29	12.39	34.5		
COLUMN 1	4	12.74	12.70	12.80	33.1		
	5	12.89	12.86	12.96	30.6	42.9	
	1						
	2	11.40	11.35	11.45	118		
	3	11.99	11.94	12.04	36.3		
COLUMN 2	4	12.37	12.33	12.43	27.6		
	5	12.61	12.56	12.66	61.2	60.8	34.5
	1	12.16	12.11	12.21	42.4		
Aroclor-1260	2	12.52	12.48	12.58	36.0		
	3						
COLUMN 1	4						
	5	14.13	14.09	14.19	20.9	33.1	
	1	12.61	12.43	12.53	41.5		
	2	13.39	12.57	12.67	11.4		
	3						
COLUMN 2	4	14.04	14.00	14.10	8.7		
	5	14.27	14.23	14.33	20.6	20.5	47.0
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30D7

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Lab Sample ID: 46663.17 Date(s) Analyzed: 06/08/01 06/08/01

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

GC Column (1): DB-17 ID: 0.32(mm) GC Column (2): DB-1701 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2						
	3	9.37	9.36	9.46	160		
COLUMN 1	4	10.17	10.13	10.23	2260		
	5	10.69	10.67	10.77	798	1070	
	1						
	2						
	3	9.70	9.65	9.75	904		
COLUMN 2	4	10.67	10.62	10.72	1380		
	5	11.02	10.99	11.09	2400	1560	37.3
	1						
Aroclor-1254	2	11.59	11.55	11.65	1340		
	3	12.32	12.29	12.39	771		
COLUMN 1	4	12.74	12.70	12.80	980		
	5	12.89	12.86	12.96	614	926	
	1						
	2	11.39	11.35	11.45	1800		
	3	11.98	11.94	12.04	851		
COLUMN 2	4						
	5	12.61	12.56	12.66	1300	1320	35.1
	1	12.15	12.11	12.21	950		
Aroclor-1260	2	12.52	12.48	12.58	753		
	3						
COLUMN 1	4						
	5	14.13	14.09	14.19	325	676	
	1	12.47	12.43	12.53	561		
	2	12.61	12.57	12.67	865		
	3						
COLUMN 2	4	14.04	14.00	14.10	297		
	5	14.27	14.23	14.33	344	517	26.7

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30D7DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Lab Sample ID: 46663.17DL Date(s) Analyzed: 06/10/01 06/10/01

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

GC Column (1): DB-17 ID: 0.32(mm) GC Column (2): DB-1701 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2	9.01	8.99	9.09	320		
	3	9.57	9.53	9.63	312		
COLUMN 1	4	10.19	10.14	10.24	2100		
	5	10.71	10.69	10.79	578	828	
	1						
	2	9.16	9.10	9.20	58.9		
	3	9.71	9.64	9.74	417		
COLUMN 2	4	10.68	10.63	10.73	2280		
	5					919	11.0
	1						
Aroclor-1254	2	11.60	11.56	11.66	1380		
	3	12.35	12.35	12.45	1300		
COLUMN 1	4	12.74	12.70	12.80	1060		
	5	13.10	13.07	13.17	1020	1190	
	1						
	2	11.41	11.36	11.46	1790		
	3	12.00	11.95	12.05	1830		
COLUMN 2	4	12.19	12.15	12.25	1630		
	5	12.62	12.58	12.68	1530	1700	35.3
	1	12.16	12.11	12.21	833		
Aroclor-1260	2	12.53	12.49	12.59	796		
	3	13.10	13.10	13.20	759		
COLUMN 1	4	13.68	13.62	13.72	1020		
	5	14.13	14.10	14.20	473	776	
	1	12.48	12.44	12.54	1040		
	2	12.62	12.58	12.68	1040		
	3						
COLUMN 2	4	14.05	14.00	14.10	217		
	5	14.28	14.24	14.34	273	642	18.9

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30D8

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Lab Sample ID: 46663.18 Date(s) Analyzed: 06/08/01 06/08/01

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

GC Column (1): DB-17 ID: 0.32(mm) GC Column (2): DB-1701 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2						
	3	9.38	9.36	9.46	108		
COLUMN 1	4	10.17	10.13	10.23	799		
	5	10.69	10.67	10.77	254	387	
	1						
	2						
	3	9.70	9.65	9.75	419		
COLUMN 2	4	10.67	10.62	10.72	328		
	5	11.02	10.99	11.09	631	459	17.0
	1						
Aroclor-1254	2	11.59	11.55	11.65	413		
	3	12.32	12.29	12.39	197		
COLUMN 1	4	12.74	12.70	12.80	279		
	5	12.89	12.86	12.96	130	255	
	1						
	2	11.40	11.35	11.45	578		
	3	11.99	11.94	12.04	287		
COLUMN 2	4	12.37	12.33	12.43	323		
	5	12.61	12.56	12.66	393	395	43.1
	1	12.16	12.11	12.21	274		
Aroclor-1260	2	12.52	12.48	12.58	185		
	3						
COLUMN 1	4						
	5	14.13	14.09	14.19	78.9	179	
	1	12.48	12.43	12.53	256		
	2	12.61	12.57	12.67	260		
	3						
COLUMN 2	4						
	5	14.27	14.23	14.33	77.6	198	10.1

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30E1

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Lab Sample ID: 46663.21 Date(s) Analyzed: 06/08/01 06/08/01

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

GC Column (1): DB-17 ID: 0.32(mm) GC Column (2): DB-1701 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.75	8.71	8.81	1000		
Aroclor-1242	2						
	3	9.37	9.36	9.46	1080		
COLUMN 1	4						
	5	10.68	10.67	10.77	5510	2530	
	1						
	2	9.15	9.10	9.20	1170		
	3	9.70	9.65	9.75	5540		
COLUMN 2	4						
	5	11.02	10.99	11.09	11200	5970	80.9
	1						
Aroclor-1254	2	11.58	11.55	11.65	5020		
	3	12.31	12.29	12.39	2840		
COLUMN 1	4	12.74	12.70	12.80	3860		
	5	12.88	12.86	12.96	2450	3540	
	1						
	2	11.39	11.35	11.45	6350		
	3	11.98	11.94	12.04	3860		
COLUMN 2	4	12.37	12.33	12.43	4730		
	5	12.61	12.56	12.66	6770	5430	42.1
	1	12.15	12.11	12.21	3490		
Aroclor-1260	2	12.52	12.48	12.58	2860		
	3						
COLUMN 1	4						
	5	14.13	14.09	14.19	1420	2590	
	1	12.47	12.43	12.53	3560		
	2	12.61	12.57	12.67	4490		
	3						
COLUMN 2	4	14.04	14.00	14.10	1130		
	5	14.27	14.23	14.33	1590	2690	3.8

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30E1DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Lab Sample ID: 46663.21DL Date(s) Analyzed: 06/10/01 06/10/01

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

GC Column (1): DB-17 ID: 0.32(mm) GC Column (2): DB-1701 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.75	8.70	8.80	1190		
Aroclor-1242	2	9.01	8.99	9.09	5020		
	3	9.57	9.53	9.63	3570		
COLUMN 1	4						
	5	10.70	10.69	10.79	7460	4310	
	1	7.80	7.75	7.85	305		
	2	9.15	9.10	9.20	1320		
	3	9.70	9.64	9.74	4140		
COLUMN 2	4						
	5					1920	124
	1						
Aroclor-1254	2	11.59	11.56	11.66	8900		
	3	12.33	12.35	12.45	7360		
COLUMN 1	4	12.74	12.70	12.80	6580		
	5	13.10	13.07	13.17	5900	7180	
	1						
	2	11.40	11.36	11.46	10200		
	3	11.99	11.95	12.05	7150		
COLUMN 2	4	12.18	12.15	12.25	7970		
	5	12.61	12.58	12.68	8300	8400	15.7
	1	12.15	12.11	12.21	4620		
Aroclor-1260	2	12.52	12.49	12.59	4200		
	3						
COLUMN 1	4	13.67	13.62	13.72	3360		
	5	14.13	14.10	14.20	1780	3490	
	1	12.48	12.44	12.54	5020		
	2	12.61	12.58	12.68	5630		
	3						
COLUMN 2	4	14.04	14.00	14.10	1110		
	5	14.27	14.24	14.34	1590	3340	4.4

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30E2

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Lab Sample ID: 46663.22 Date(s) Analyzed: 06/08/01 06/08/01

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

GC Column (1): DB-17 ID: 0.32(mm) GC Column (2): DB-1701 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.78	8.71	8.81	26.4		
Aroclor-1242	2	9.03	8.98	9.08	37.3		
	3	9.41	9.36	9.46	6.8		
COLUMN 1	4	10.21	10.13	10.23	32.1		
	5	10.74	10.67	10.77	24.1	25.3	
	1						
	2	9.16	9.10	9.20	9.2		
	3	9.72	9.65	9.75	12.3		
COLUMN 2	4	10.69	10.62	10.72	10.1		
	5	11.05	10.99	11.09	27.5	14.8	52.4
	1						
Aroclor-1254	2						
	3	12.36	12.29	12.39	9.6		
COLUMN 1	4	12.77	12.70	12.80	9.5		
	5	12.92	12.86	12.96	5.3	8.1	
	1						
	2	11.42	11.35	11.45	36.4		
	3	12.00	11.94	12.04	7.2		
COLUMN 2	4	12.40	12.33	12.43	4.8		
	5					16.1	98.5
	1	12.18	12.11	12.21	11.3		
Aroclor-1260	2	12.55	12.48	12.58	15.7		
	3	13.13	13.11	13.21	6.8		
COLUMN 1	4						
	5					11.3	
	1	12.49	12.43	12.53	7.9		
	2						
	3	13.38	13.36	13.46	13.3		
COLUMN 2	4	14.06	14.00	14.10	5.7		
	5	14.29	14.23	14.33	9.4	9.1	21.8

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.

E30E3

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Lab Sample ID: 46663.23 Date(s) Analyzed: 06/10/01 06/10/01

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

GC Column (1): DB-17 ID: 0.32(mm) GC Column (2): DB-1701 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.74	8.70	8.80	334		
Aroclor-1242	2						
	3	9.56	9.53	9.63	131		
COLUMN 1	4						
	5	10.77	10.69	10.79	114	193	
	1	7.76	7.75	7.85	344		
	2	9.16	9.10	9.20	83.7		
	3	9.70	9.64	9.74	140		
COLUMN 2	4						
	5					189	2.1
	1						
Aroclor-1254	2	11.58	11.56	11.66	297		
	3						
COLUMN 1	4	12.73	12.70	12.80	310		
	5	13.09	13.07	13.17	291	299	
	1						
	2	11.39	11.36	11.46	336		
	3	11.98	11.95	12.05	160		
COLUMN 2	4	12.17	12.15	12.25	230		
	5	12.61	12.58	12.68	270	249	18.2
	1	12.15	12.11	12.21	178		
Aroclor-1260	2	12.51	12.49	12.59	191		
	3						
COLUMN 1	4	13.66	13.62	13.72	245		
	5	14.12	14.10	14.20	148	190	
	1						
	2	12.61	12.58	12.68	183		
	3	13.41	13.37	13.47	74.4		
COLUMN 2	4	14.04	14.00	14.10	69.0		
	5	14.27	14.24	14.34	128	114	50.0

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30E4

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Lab Sample ID: 46663.24 Date(s) Analyzed: 06/10/01 06/10/01

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

GC Column (1): DB-17 ID: 0.32(mm) GC Column (2): DB-1701 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.75	8.70	8.80	912		
Aroclor-1242	2						
	3	9.56	9.53	9.63	668		
COLUMN 1	4						
	5	10.77	10.69	10.79	278	619	
	1	7.80	7.75	7.85	1450		
	2						
	3	9.70	9.64	9.74	443		
COLUMN 2	4	10.67	10.63	10.73	1050		
	5					981	58.5
	1						
Aroclor-1254	2	11.58	11.56	11.66	548		
	3	12.38	12.35	12.45	797		
COLUMN 1	4	12.73	12.70	12.80	594		
	5	13.09	13.07	13.17	388	582	
	1						
	2	11.39	11.36	11.46	582		
	3	11.98	11.95	12.05	195		
COLUMN 2	4	12.18	12.15	12.25	505		
	5	12.61	12.58	12.68	459	435	28.9
	1	12.15	12.11	12.21	391		
Aroclor-1260	2	12.51	12.49	12.59	334		
	3	13.14	13.10	13.20	130		
COLUMN 1	4	13.67	13.62	13.72	389		
	5	14.12	14.10	14.20	264	302	
	1						
	2	12.61	12.58	12.68	311		
	3	13.41	13.37	13.47	160		
COLUMN 2	4	14.04	14.00	14.10	119		
	5	14.27	14.24	14.34	247	209	36.4

At least 3 peaks are required for identification of multicomponent analytes

page 1 of 1

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060206.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060206.D\ECD2B.CH
Acq On : 02 Jun 2001 13:56 Operator: DDC
Sample : RESC3B Inst : HP_03
Misc : 5-441-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 10:04 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\05_30_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.46	6.48	419216	162253	17.8	17.4
22)	S DCB	17.14	18.42	499475	254402	19.0	19.0

Target Compounds:

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CSF 29294 SDG E0078
Signature Imelda M. Williams
Date 06/06/01

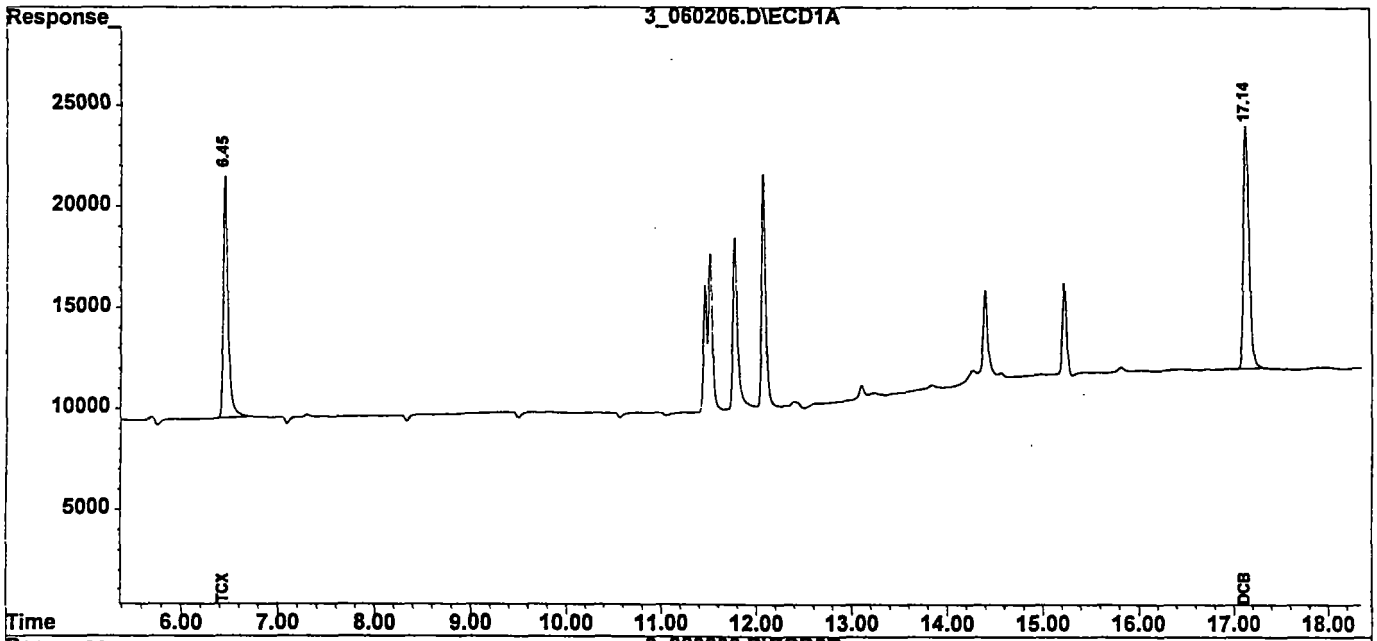
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

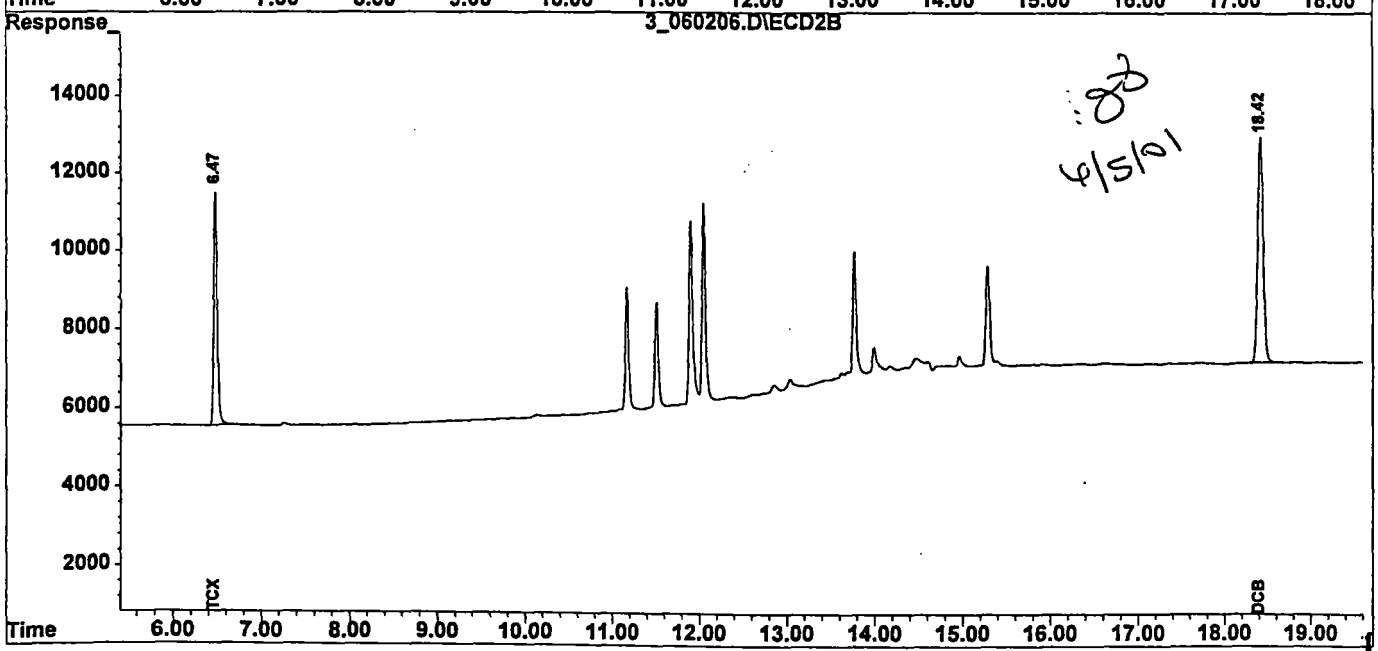
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060206.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060206.D\ECD2B.CH
Acq On : 02 Jun 2001 13:56 Operator: DDC
Sample : RESC3B Inst : HP_03
Misc : 5-441-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 10:04 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\05_30_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/5/01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060207.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060207.D\ECD2B.CH
Acq On : 02 Jun 2001 14:21 Operator: DDC
Sample : AR1221L3B Inst : HP_03
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 10:04 2001 Quant Results File: XPCBF02.RES
Multi Time: Jun 3 10:04 2001 Quant Results File: xspcbf02.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001

Multi-Component Method : f:\hpchem\hp\3\data\06_02_01\xspcbf02.m
Title : PCB/TOXAPHENE
Last Update : Thu May 24 12:57:13 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.46	6.48	438017	164513	18.6	17.7
22)	S DCB	17.14	18.42	530523	270766	20.2	20.2
	Target Compounds:						
	Multi-Component Compounds:						
	L2 Aroclor-1221	7.22	7.68	116590	32470	375.5	454.2
3)	L2 Aroclor-1221 {2}	7.51	7.80	61631	108124	393.9	450.6
4)	L2 Aroclor-1221 {3}	7.63	7.92	306552	25778	442.8	532.4
	Sum Aroclor-1221			484773	166373	1212.3	1437.2
	Average Aroclor-1221					404.112	479.065

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CSF 29294 SDG E00 78
Signature Sheila M. William
Date 06/06/01

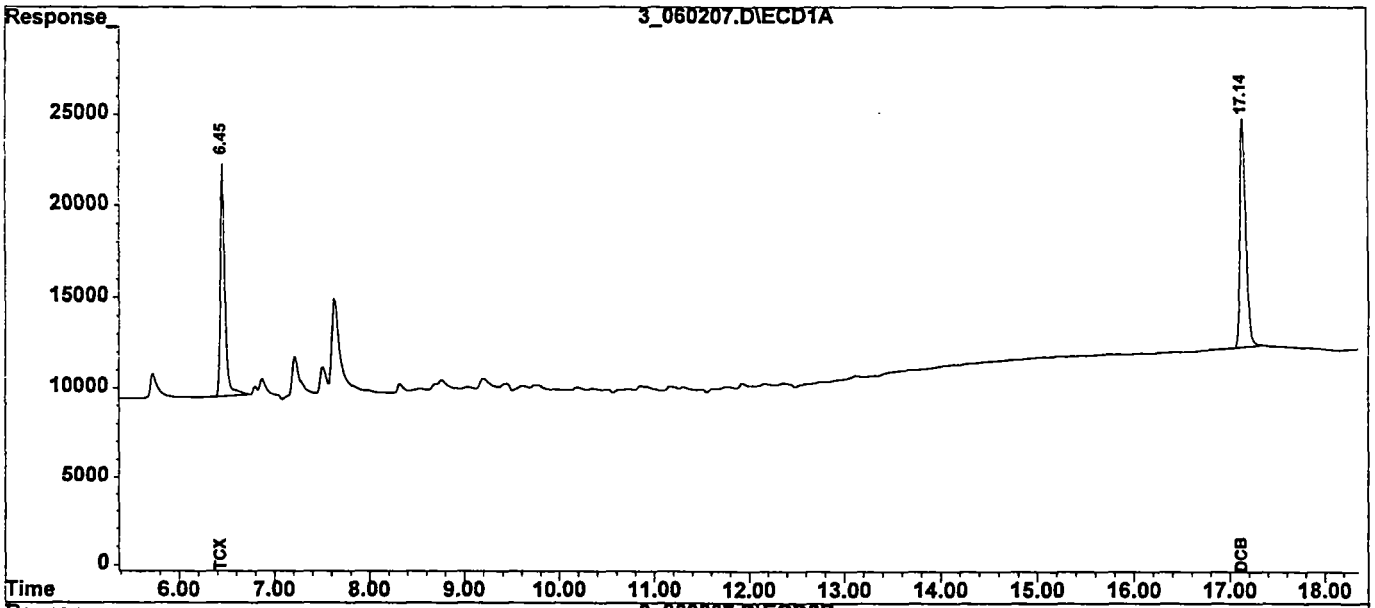
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
3_060207.D xspcbf02.m Sun Jun 03 10:08:22 2001

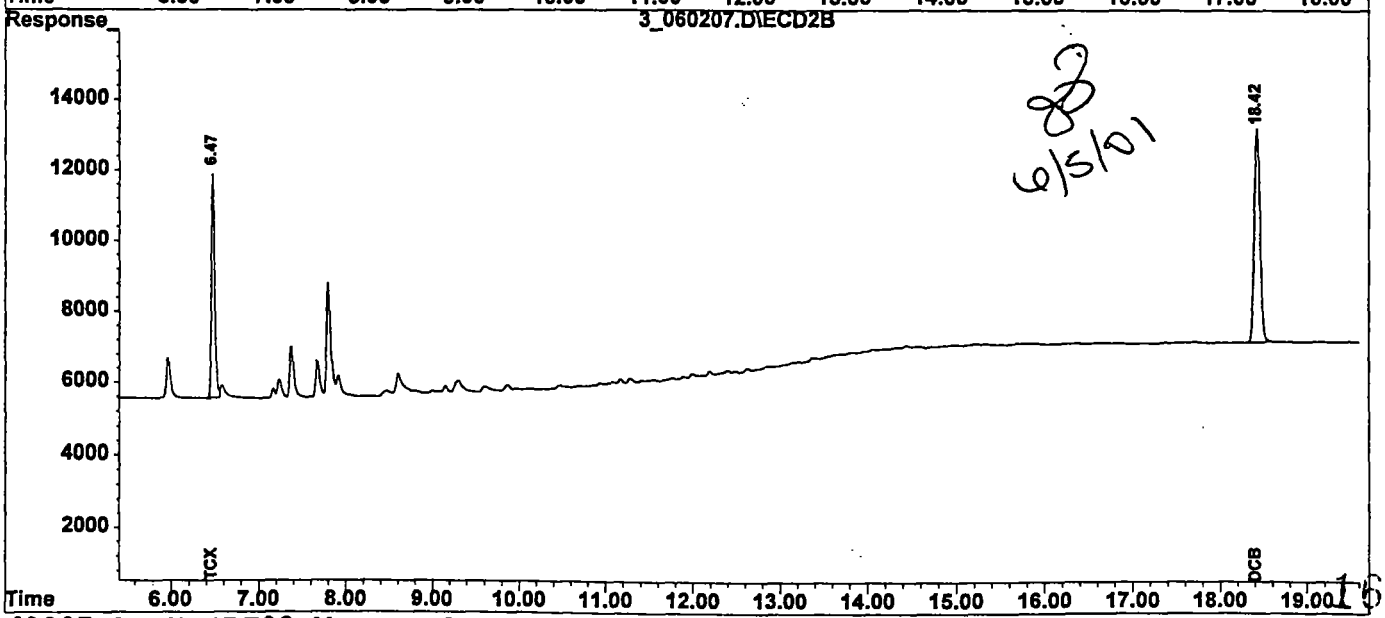
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060207.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060207.D\ECD2B.CH
Acq On : 02 Jun 2001 14:21 Operator: DDC
Sample : AR1221L3B Inst : HP_03
Misc : 5-420-6 Dilution: 1.00
IntFile_Signal_#1: events.e IntFile_Signal_#2: events2.e
Quant Time: Jun 3 10:04 2001 Quant Results File: XPCBF02.RES
Quant Time: Jun 3 10:04 2001 Quant Results File: xspcbf02.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001

Multi-Component Method : f:\hpchem\hp\3\data\06_02_01\xspcbf02.m
Title : PCB/TOXAPHENE
Last Update : Thu May 24 12:57:13 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





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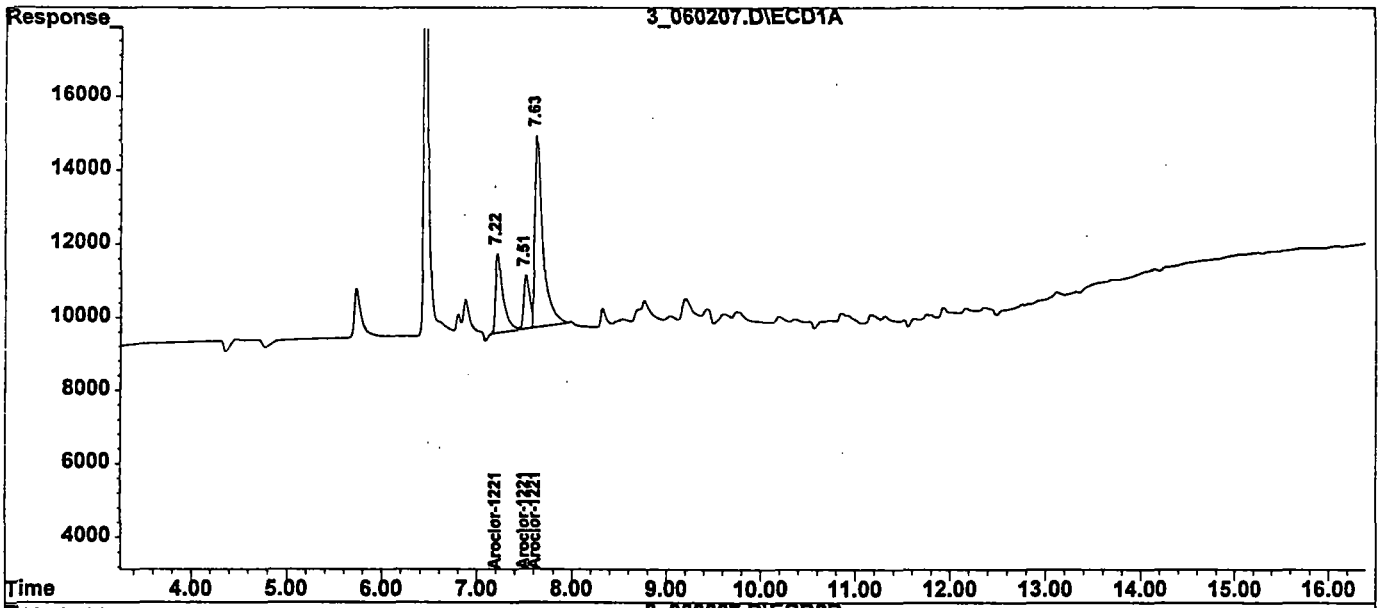
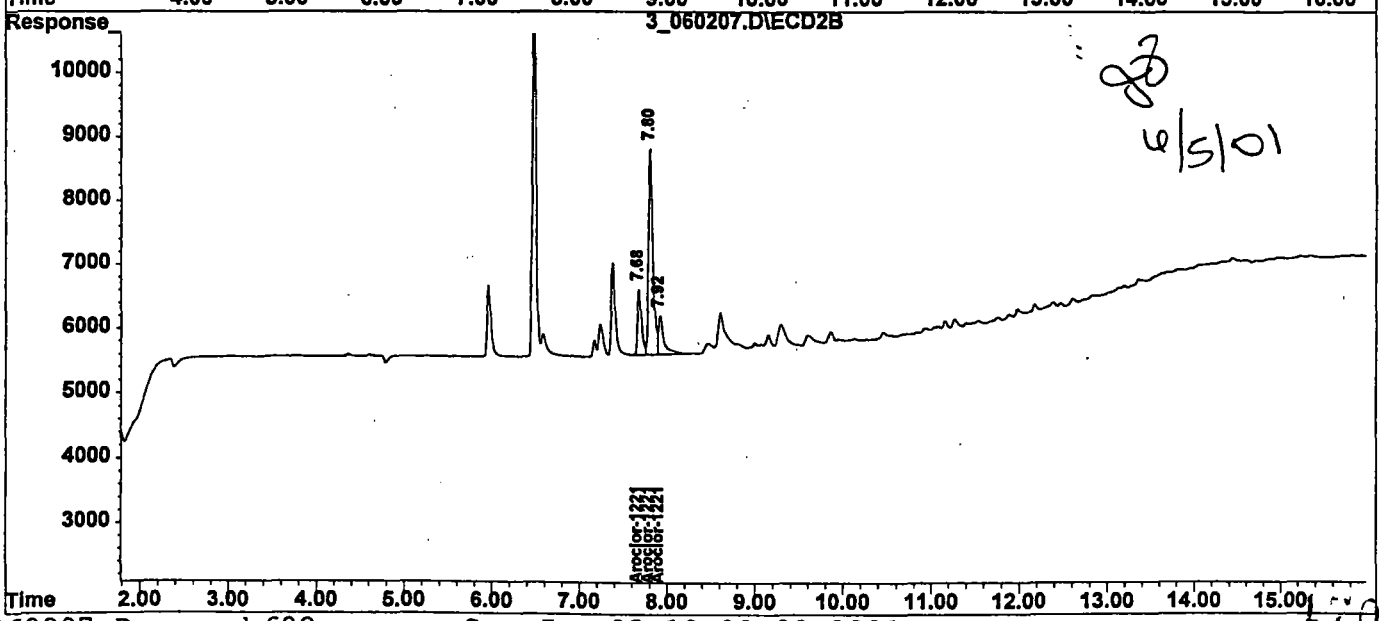
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060207.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060207.D\ECD2B.CH
Acq On : 02 Jun 2001 14:21 Operator: DDC
Sample : AR1221L3B Inst : HP_03
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 10:04 2001 Quant Results File: xspcbf02.RES
Quant Time: Jun 3 10:04 2001 Quant Results File: xspcbf02.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001

Multi-Component Method : f:\hpchem\hp\3\data\06_02_01\xspcbf02.m
Title : PCB/TOXAPHENE
Last Update : Thu May 24 12:57:13 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/5/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060208.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060208.D\ECD2B.CH
Acq On : 02 Jun 2001 14:46 Operator: DDC
Sample : AR1232L3B Inst : HP_03
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 10:05 2001 Quant Results File: XPCBF02.RES
Multi Time: Jun 3 10:05 2001 Quant Results File: xspcbf02.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001

Multi-Component Method : f:\hpchem\hp\3\data\06_02_01\xspcbf02.m
Title : PCB/TOXAPHENE
Last Update : Thu May 24 12:57:13 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	434936	164926	18.4	17.7	
22)	S DCB	17.14	18.42	483831	247595	18.4	18.5	
	Target Compounds:							
	Multi-Component Compounds:							
	L3 Aroclor-1232	7.51	7.38	54700	35460	289.7	374.4	#
6)	L3 Aroclor-1232 {2}	8.76	7.68	116081	25409	422.3	372.2	
7)	L3 Aroclor-1232 {3}	9.42	9.16	166772	40439	430.1	389.4	
8)	L3 Aroclor-1232 {4}	10.35	9.86	122067	74953	378.3	436.3	
	Sum Aroclor-1232			459621	176262	1520.3	1572.3	
	Average Aroclor-1232					380.087	393.063	

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Signature Arnelda M. Williams
Date 06/06/01

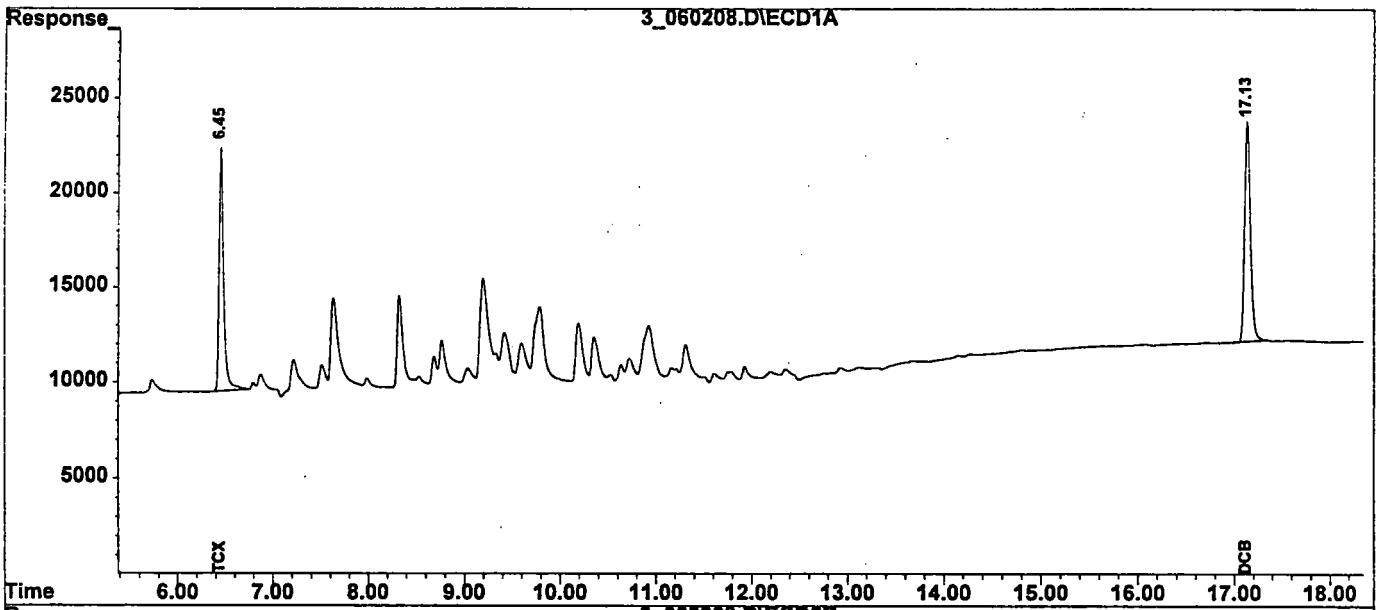
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

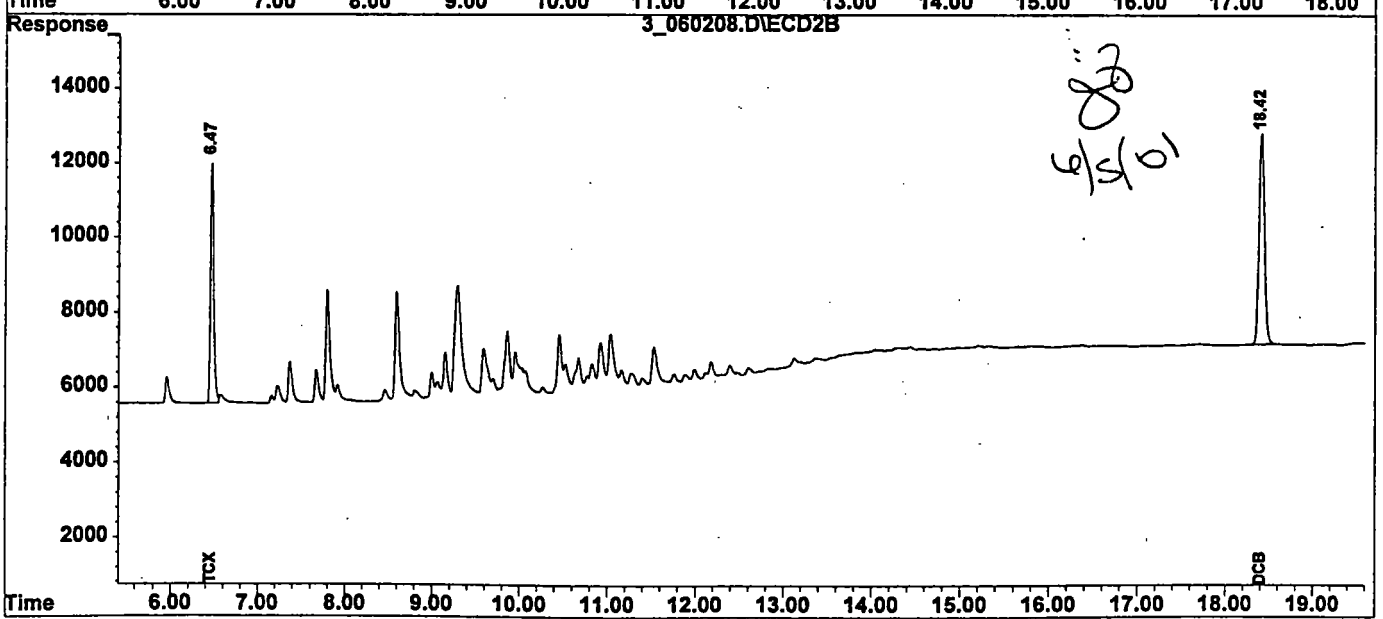
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060208.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060208.D\ECD2B.CH
Acq On : 02 Jun 2001 14:46 Operator: DDC
Sample : AR1232L3B Inst : HP_03
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 10:05 2001 Quant Results File: XPCBF02.RES
Quant Time: Jun 3 10:05 2001 Quant Results File: xspcbf02.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001

Multi-Component Method : f:\hpchem\hp\3\data\06_02_01\xspcbf02.m
Title : PCB/TOXAPHENE
Last Update : Thu May 24 12:57:13 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





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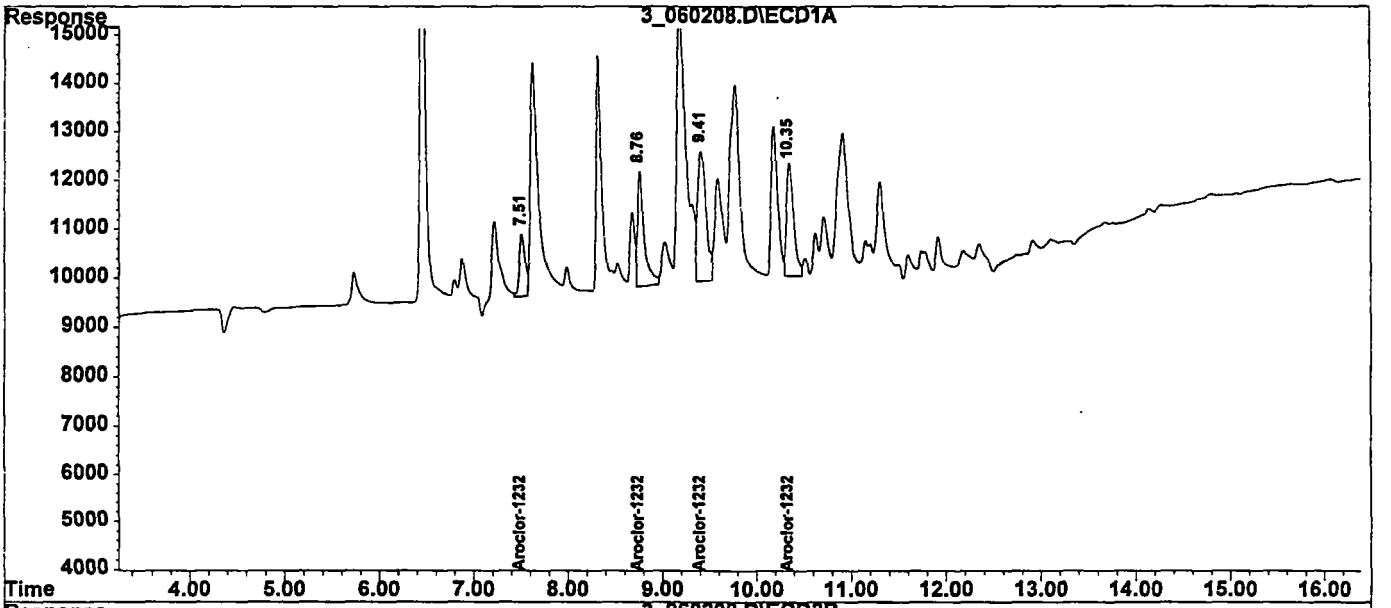
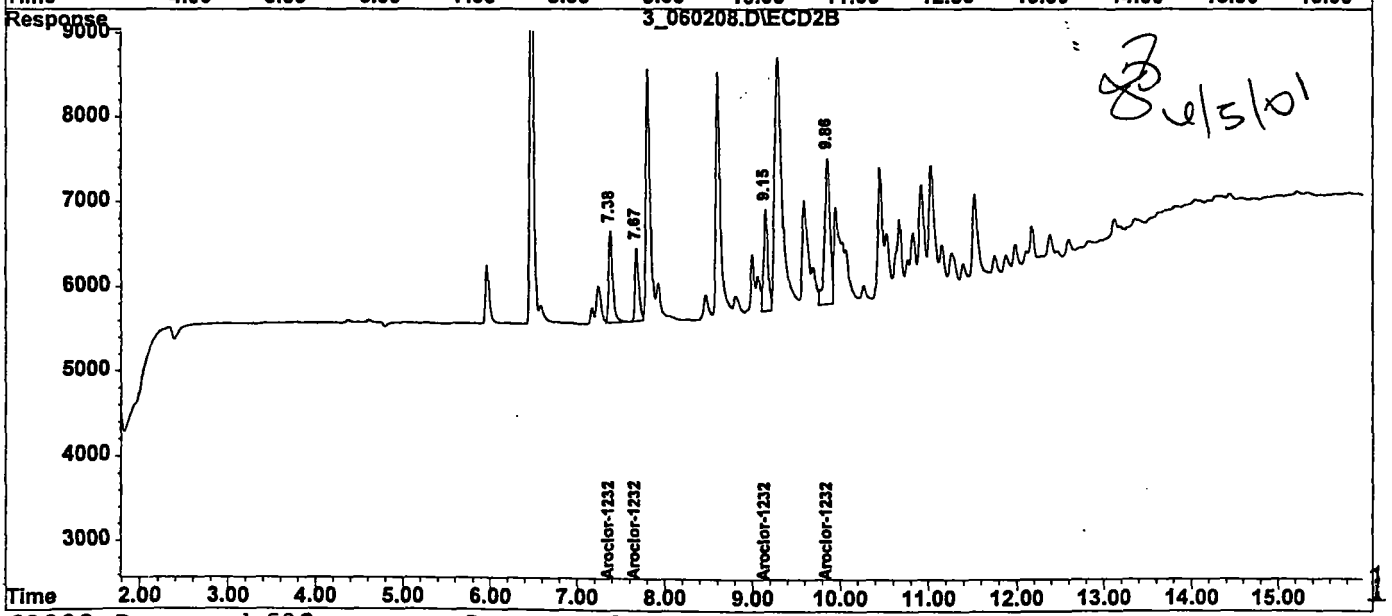
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060208.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060208.D\ECD2B.CH
Acq On : 02 Jun 2001 14:46 Operator: DDC
Sample : AR1232L3B Inst : HP_03
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 10:05 2001 Quant Results File: xspcbf02.RES
Quant Time: Jun 3 10:05 2001 Quant Results File: xspcbf02.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001

Multi-Component Method : f:\hpchem\hp\3\data\06_02_01\xspcbf02.m
Title : PCB/TOXAPHENE
Last Update : Thu May 24 12:57:13 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





8 6/5/01

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Response Factor Report HP_03

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Initial Calibration

alibration Files
L1 =3_060209.D L2 =3_060210.D L3 =3_060211.D
L4 =3_060212.D L5 =3_060213.D

	Compound	L1	L2	L3	L4	L5	Avg	%RSD
7)	Aroclor-1242	429.3	423.9	400.1	391.2	368.6	402.6	6.16
8)	Aroclor-1242 {2}	177.8	177.4	178.4	190.8	197.3	184.4	4.97
9)	Aroclor-1242 {3}	665.6	725.5	698.3	700.2	660.8	690.1	3.89
10)	Aroclor-1242 {4}	755.7	742.2	694.6	707.7	676.7	715.4	4.60
11)	Aroclor-1242 {5}	375.1	291.6	281.8	307.9	309.4	313.2	11.65

Signal #2 Calibration Files
L1 =3_060209.D L2 =3_060210.D L3 =3_060211.D
L4 =3_060212.D L5 =3_060213.D

	Compound	L1	L2	L3	L4	L5	Avg	%RSD
30)	Aroclor-1242 #2	179.0	148.6	161.9	158.1	151.3	159.8	7.51
31)	Aroclor-1242 {2} #2	170.8	175.5	164.1	163.6	158.0	166.4	4.11
32)	Aroclor-1242 {3} #2	77.4	79.2	69.7	62.5	54.7	68.7	14.95
33)	Aroclor-1242 {4} #2	194.6	202.3	193.2	197.7	190.5	195.7	2.31
34)	Aroclor-1242 {5} #2	311.0	308.5	290.5	296.4	281.7	297.6	4.13

= Out of Range

XPCBF02.M Sun Jun 03 09:48:21 2001

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CSF 29794 SDG E0078
Signature Arnelda M. Williams
Date 06/06/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060209.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060209.D\ECD2B.CH
Acq On : 02 Jun 2001 15:10 Operator: DDC
Sample : AR1242L1B Inst : HP_03
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 9:45 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\05_30_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.48	109717	42986	5.358	5.095	
22)	S DCB	17.14	18.42	133501	68433	6.175	6.077	
	Target Compounds:							
7)	L4 Aroclor-1242	8.77	7.80	42929	17904	140.4	135.2	
8)	L4 Aroclor-1242 {2}	9.04	9.16	17781	17077	137.6	130.5	
9)	L4 Aroclor-1242 {3}	9.42	9.70	66564	7741	126.8	130.1	
10)	L4 Aroclor-1242 {4}	10.19	10.68	75568	19464	151.2	132.9	
	L4 Aroclor-1242 {5}	10.73	11.04	37513	31104	205.4	141.9	#
	Sum Aroclor-1242			240354	93289	761.5	670.6	
	Average Aroclor-1242					152.294	134.126	

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CSF 29294 SDG E0078
Signature Amelda M. Williams
Date 06/06/01

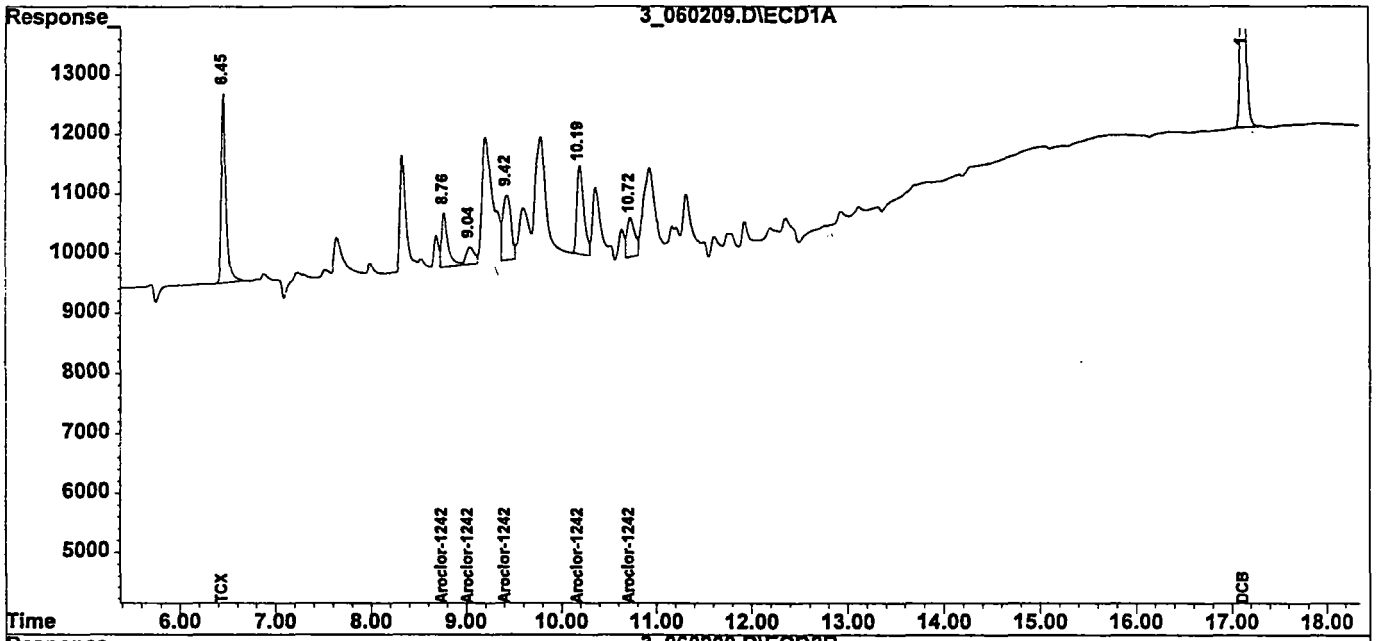
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

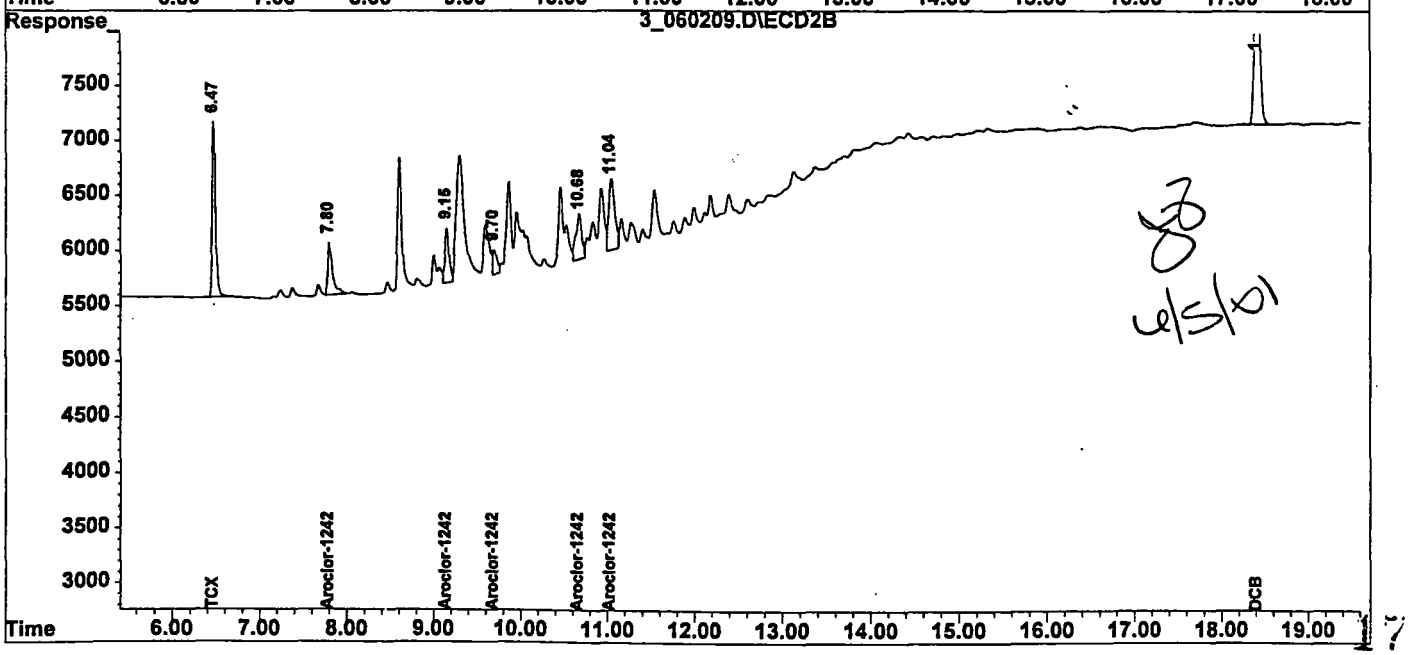
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060209.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060209.D\ECD2B.CH
Acq On : 02 Jun 2001 15:10 Operator: DDC
Sample : AR1242L1B Inst : HP_03
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 9:45 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\05_30_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





8
6/5/01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060210.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060210.D\ECD2B.CH
Acq On : 02 Jun 2001 15:35 Operator: DDC
Sample : AR1242L2B Inst : HP_03
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 9:45 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	229688	89491	11.3	10.9
22)	S DCB	17.13	18.42	268229	137849	12.4	12.2
	Target Compounds:						
7)	L4 Aroclor-1242	8.76	7.80	84786	29714	257.0	214.3
8)	L4 Aroclor-1242 {2}	9.03	9.15	35480	35108	250.1	255.3
9)	L4 Aroclor-1242 {3}	9.42	9.70	145098	15836	260.7	265.1
1[illegible]	L4 Aroclor-1242 {4}	10.19	10.68	148449	40465	268.8	257.0
[illegible]	L4 Aroclor-1242 {5}	10.72	11.04	58327	61703	248.8	258.5
	Sum Aroclor-1242			472140	182826	1285.4	1250.1
	Average Aroclor-1242					257.077	250.027

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CSF 29294 SDG E0078
Signature Imelda M. Williams
Date 06/06/01

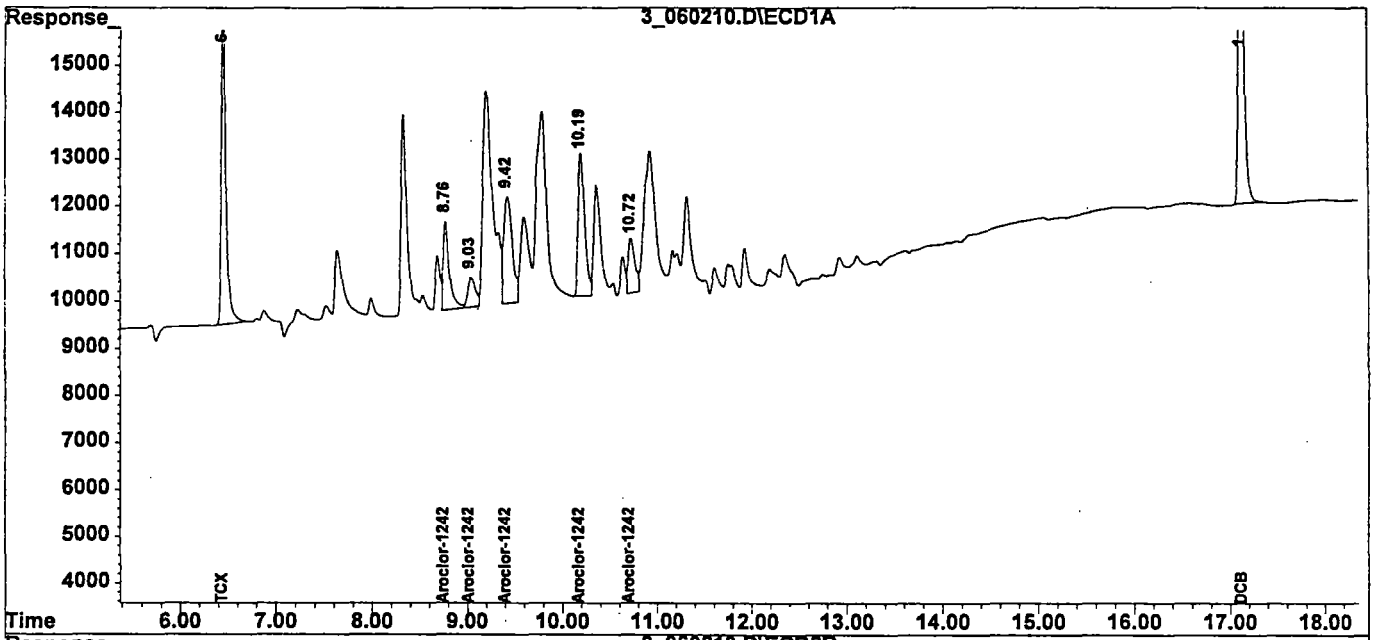
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

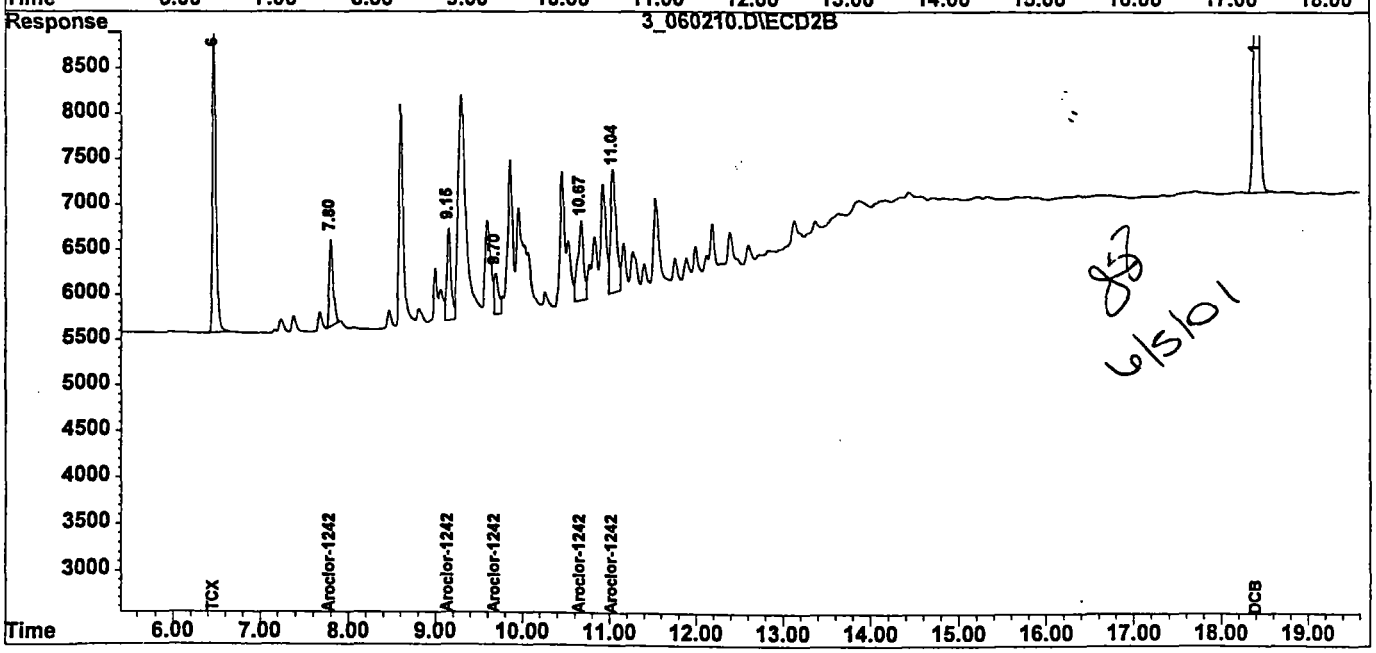
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060210.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060210.D\ECD2B.CH
Acq On : 02 Jun 2001 15:35 Operator: DDC
Sample : AR1242L2B Inst : HP_03
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 9:45 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





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6/5/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060211.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060211.D\ECD2B.CH
Acq On : 02 Jun 2001 16:00 Operator: DDC
Sample : AR1242L3B Inst : HP_03
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 9:45 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	447165	173929	21.2	20.6
22)	S DCB	17.13	18.41	500565	258928	21.7	21.7
	Target Compounds:						
7)	L4 Aroclor-1242	8.76	7.80	160029	64743	453.0	450.0
8)	L4 Aroclor-1242 {2}	9.03	9.15	71374	65658	462.7	450.3
9)	L4 Aroclor-1242 {3}	9.41	9.70	279336	27874	470.9	450.8
10)	L4 Aroclor-1242 {4}	10.18	10.67	277849	77287	464.4	461.4
	L4 Aroclor-1242 {5}	10.72	11.04	112738	116204	439.4	456.5
	Sum Aroclor-1242			901325	351767	2290.4	2269.0
	Average Aroclor-1242					458.086	453.790

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CSF 29294 SDG E0078
Signature Amelia M. Williams
Date 06/06/01

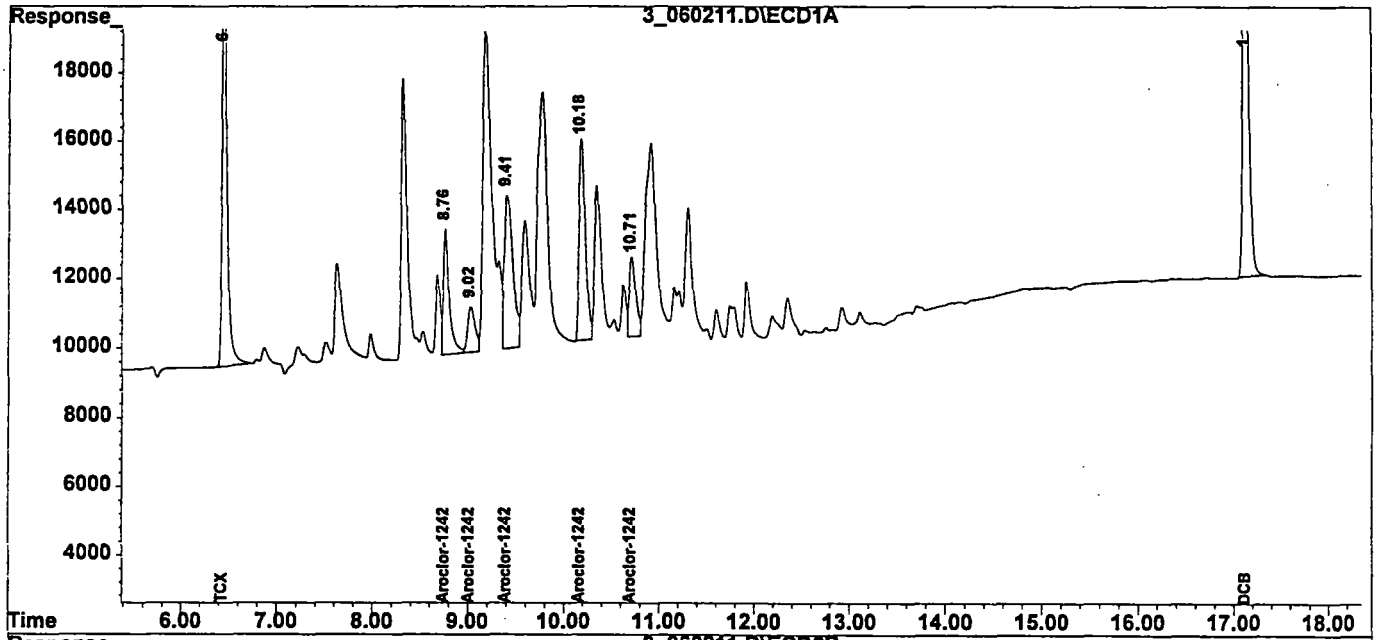
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
3_060211.D XPCBF02.M Sun Jun 03 09:45:57 2001

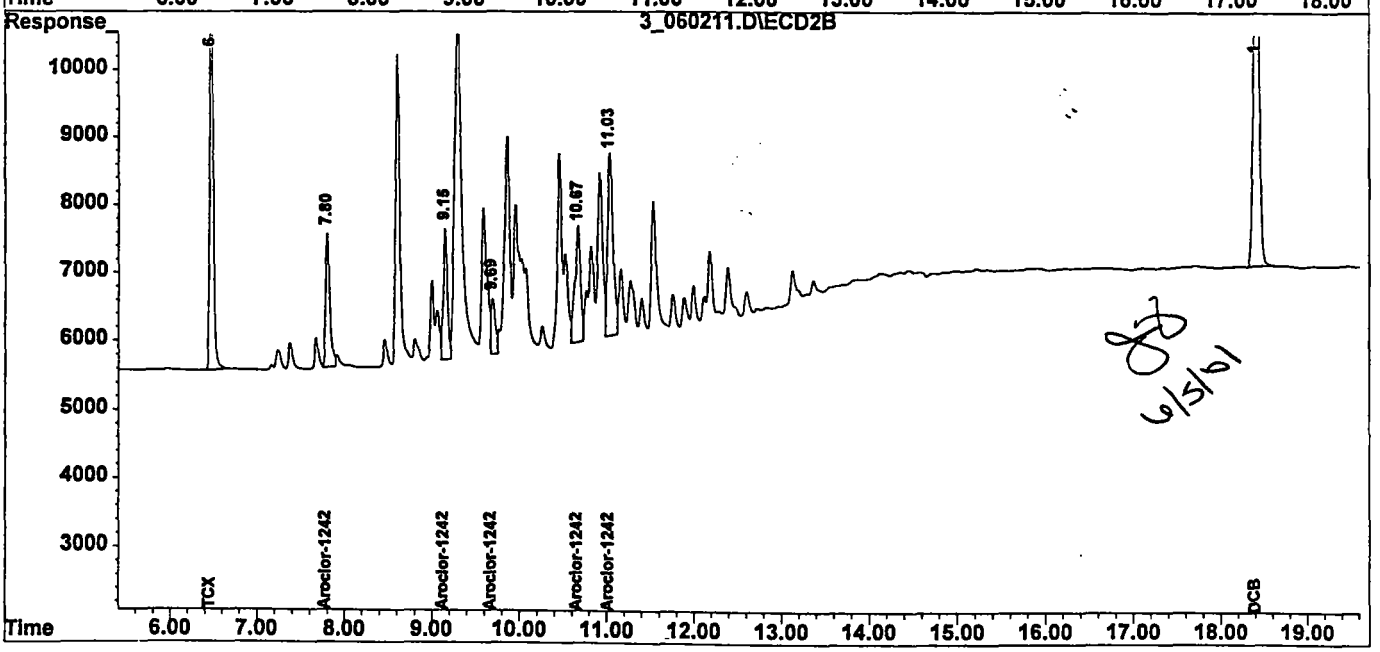
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060211.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060211.D\ECD2B.CH
Acq On : 02 Jun 2001 16:00 Operator: DDC
Sample : AR1242L3B Inst : HP_03
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 9:45 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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\06_02_01\3_060212.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060212.D\ECD2B.CH
Acq On : 02 Jun 2001 16:24 Operator: DDC
Sample : AR1242L4B Inst : HP_03
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 9:47 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	907955	355371	40.1	40.1
22)	S DCB	17.13	18.42	1043803	541652	40.5	40.6
	Target Compounds:						
7)	L4 Aroclor-1242	8.76	7.80	312960	126454	777.2	791.5
8)	L4 Aroclor-1242 {2}	9.02	9.15	152630	130878	827.7	786.5
9)	L4 Aroclor-1242 {3}	9.40	9.70	560163	50027	811.6	728.3
10)	L4 Aroclor-1242 {4}	10.18	10.67	566157	158189	796.7	808.4
	L4 Aroclor-1242 {5}	10.71	11.03	246314	237130	792.3	796.7
	Sum Aroclor-1242			1838223	702678	4005.5	3911.4
	Average Aroclor-1242					801.107	782.273

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CSF 29794 SDG E0078
Signature Gretta M. Williams
Date 06/06/01

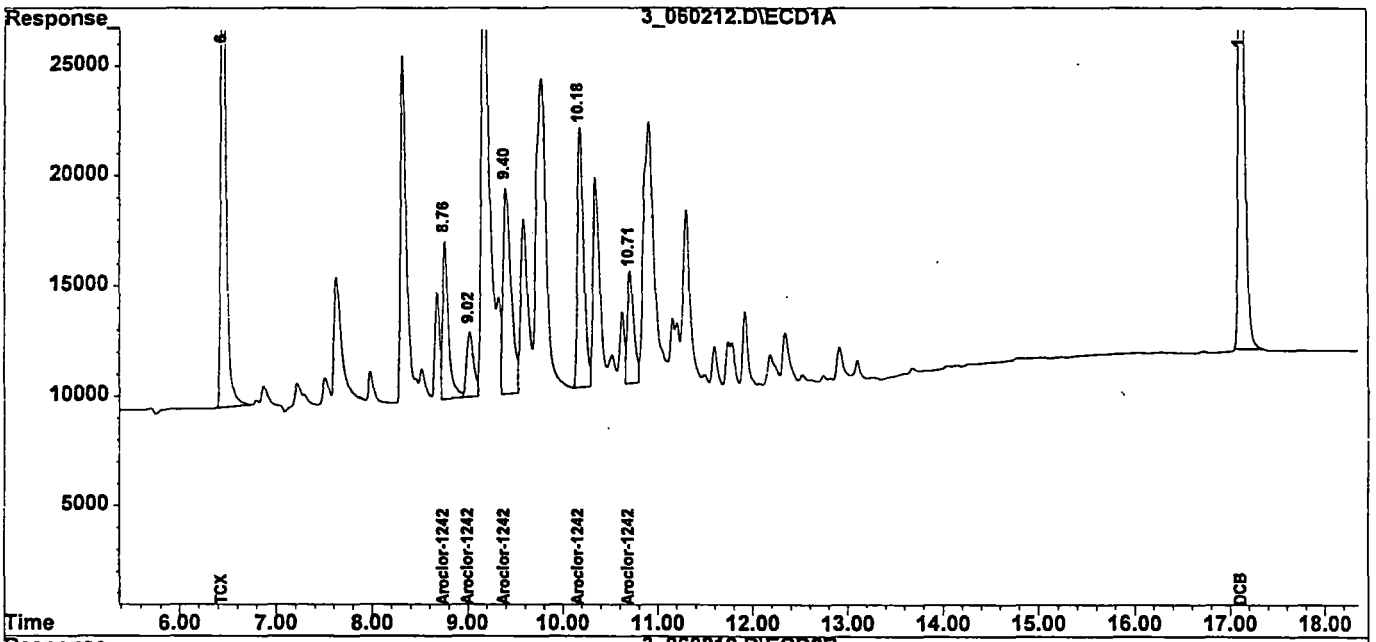
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
3_060212.D XPCBF02.M Sun Jun 03 09:48:50 2001

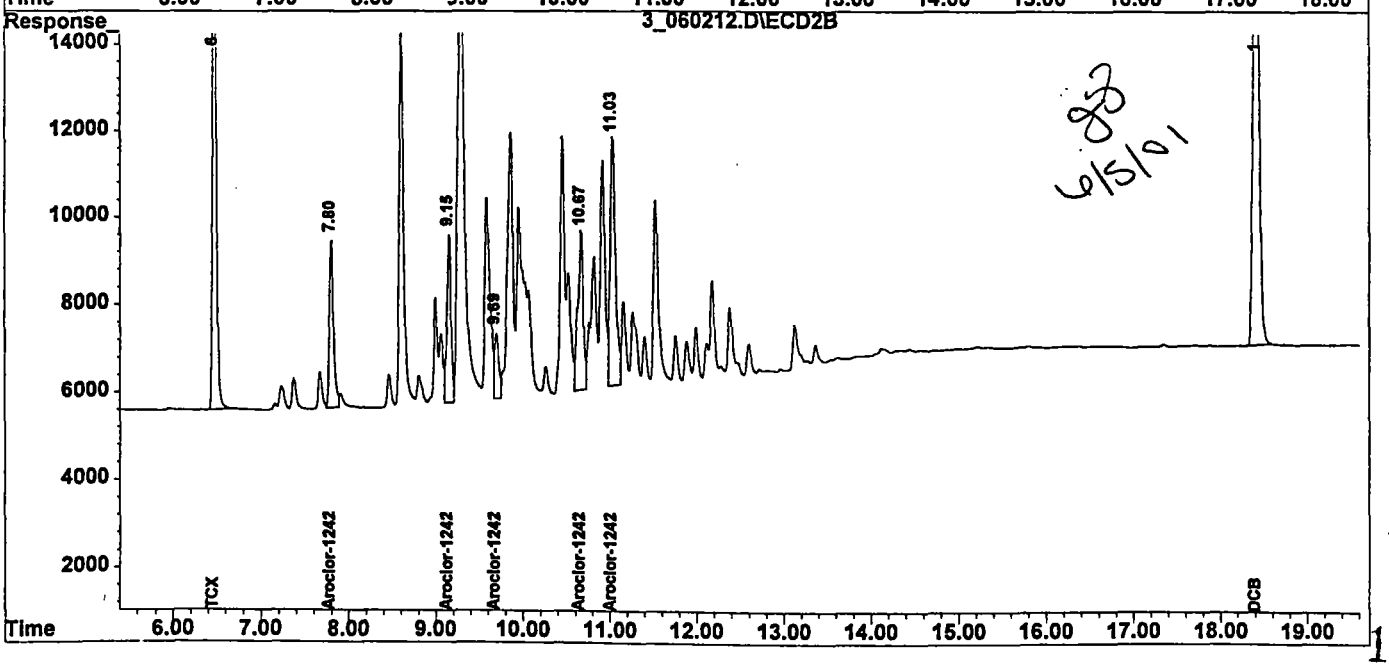
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060212.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060212.D\ECD2B.CH
Acq On : 02 Jun 2001 16:24 Operator: DDC
Sample : AR1242L4B Inst : HP_03
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 9:47 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/5/01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060213.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060213.D\ECD2B.CH
Acq On : 02 Jun 2001 16:49 Operator: DDC
Sample : AR1242L5B Inst : HP_03
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 9:48 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	1864046	737194	82.3	83.1
22)	S DCB	17.13	18.41	1930943	1013369	75.0 E	76.0
	Target Compounds:						
7)	L4 Aroclor-1242	8.76	7.80	589770	242073	1464.7 E	1515.2
8)	L4 Aroclor-1242 {2}	9.01	9.15	315744	252740	1712.4 E	1518.8
9)	L4 Aroclor-1242 {3}	9.40	9.70	1057254	87455	1531.9 E	1273.1
	L4 Aroclor-1242 {4}	10.18	10.67	1082738	304861	1519.3	1557.9 E
	L4 Aroclor-1242 {5}	10.70	11.03	495079	450660	1587.6	1514.2 E
	Sum Aroclor-1242			3540585	1337789	7816.0	7379.2
	Average Aroclor-1242					1563.195	1475.834

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CSF 29294 SDG E0078
Signature Arnelda M. Williams
Date 06/06/01

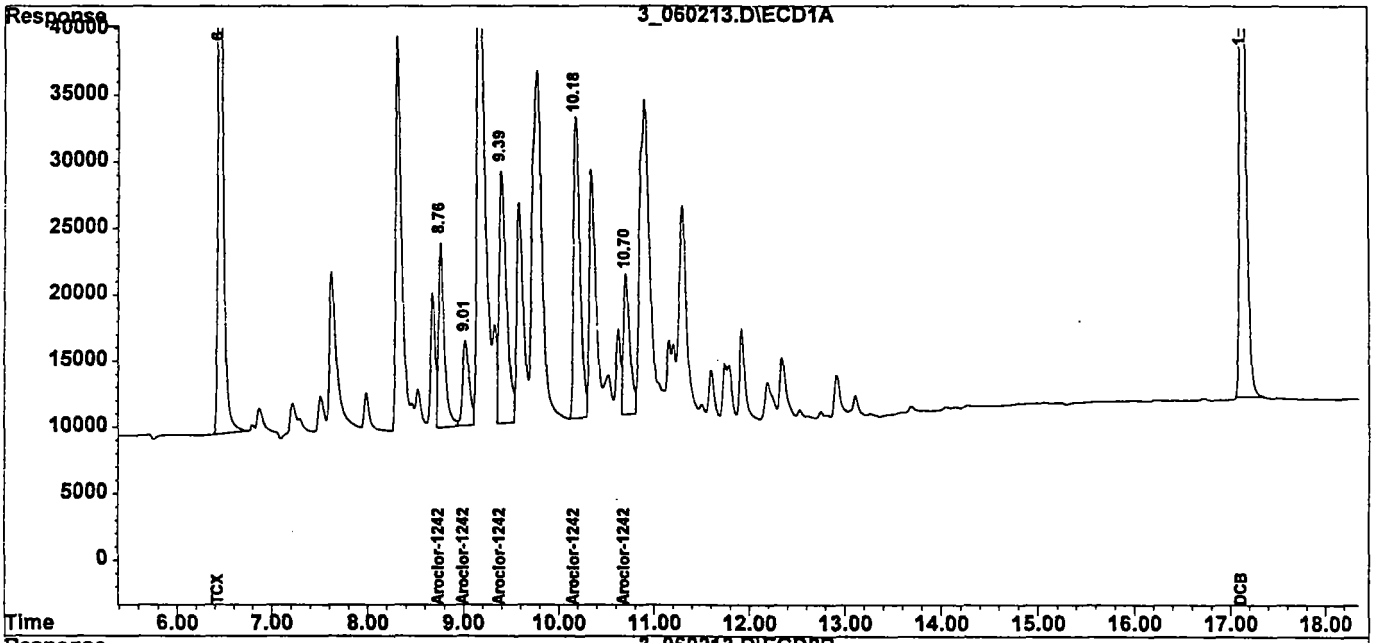
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

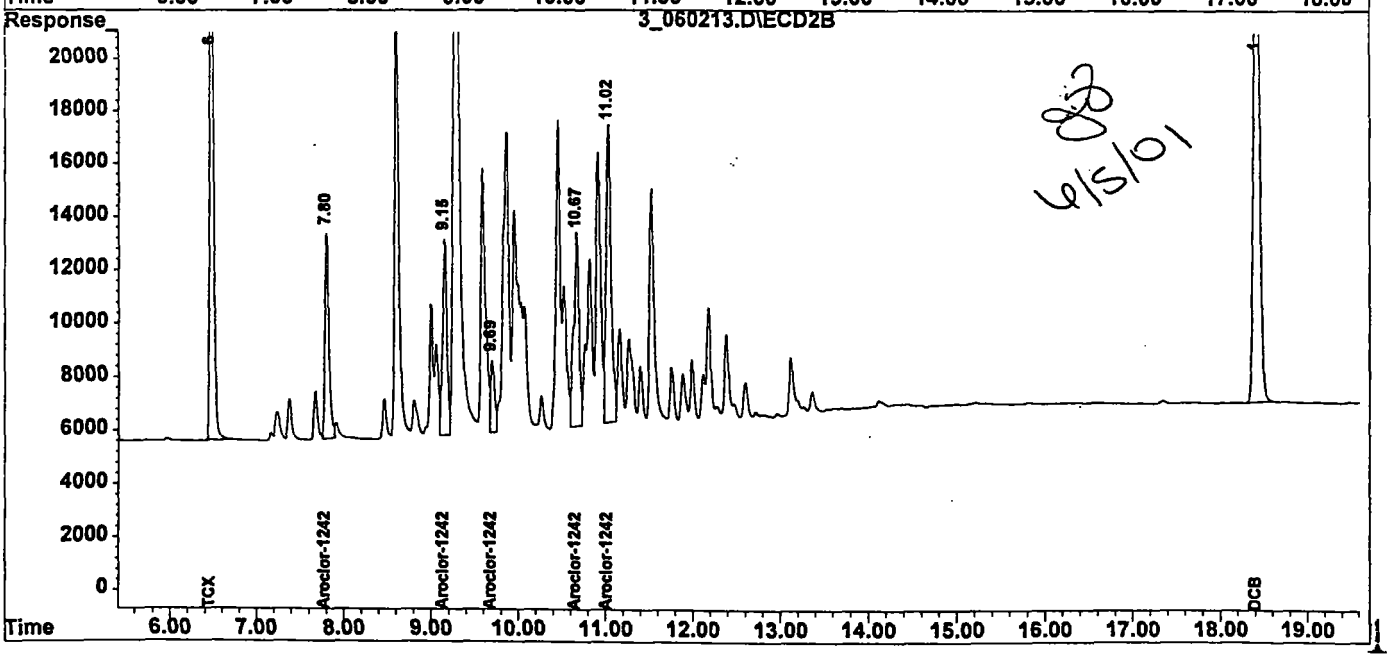
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060213.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060213.D\ECD2B.CH
Acq On : 02 Jun 2001 16:49 Operator: DDC
Sample : AR1242L5B Inst : HP_03
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 9:48 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





8.2
6/5/01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060214.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060214.D\ECD2B.CH
Acq On : 02 Jun 2001 17:14 Operator: DDC
Sample : AR1248L3B Inst : HP_03
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 10:05 2001 Quant Results File: XPCBF02.RES
Multi Time: Jun 3 10:06 2001 Quant Results File: xspcbf02.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001

Multi-Component Method : f:\hpchem\hp\3\data\06_02_01\xspcbf02.m
Title : PCB/TOXAPHENE
Last Update : Thu May 24 12:57:13 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	451071	174277	19.1	18.7
22)	S DCB	17.13	18.42	539919	273302	20.6	20.4
	Target Compounds:						
	Multi-Component Compounds:						
1.,	L5 Aroclor-1248	9.77	9.70	935297	32269	548.6	501.7
15)	L5 Aroclor-1248 {2}	10.34	9.86	443089	184682	553.4	544.7
16)	L5 Aroclor-1248 {3}	10.63	10.82	87811	99558	610.4	590.3
17)	L5 Aroclor-1248 {4}	11.30	11.16	470299	106228	576.9	520.4
18)	L5 Aroclor-1248 {5}	11.92	11.76	226983	51833	570.0	539.4
	Sum Aroclor-1248			2163479	474570	2859.3	2696.5
	Average Aroclor-1248					571.862	539.306

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CSF 29294 SDG E0078
Signature Gwella M. Williams
Date 06/06/01

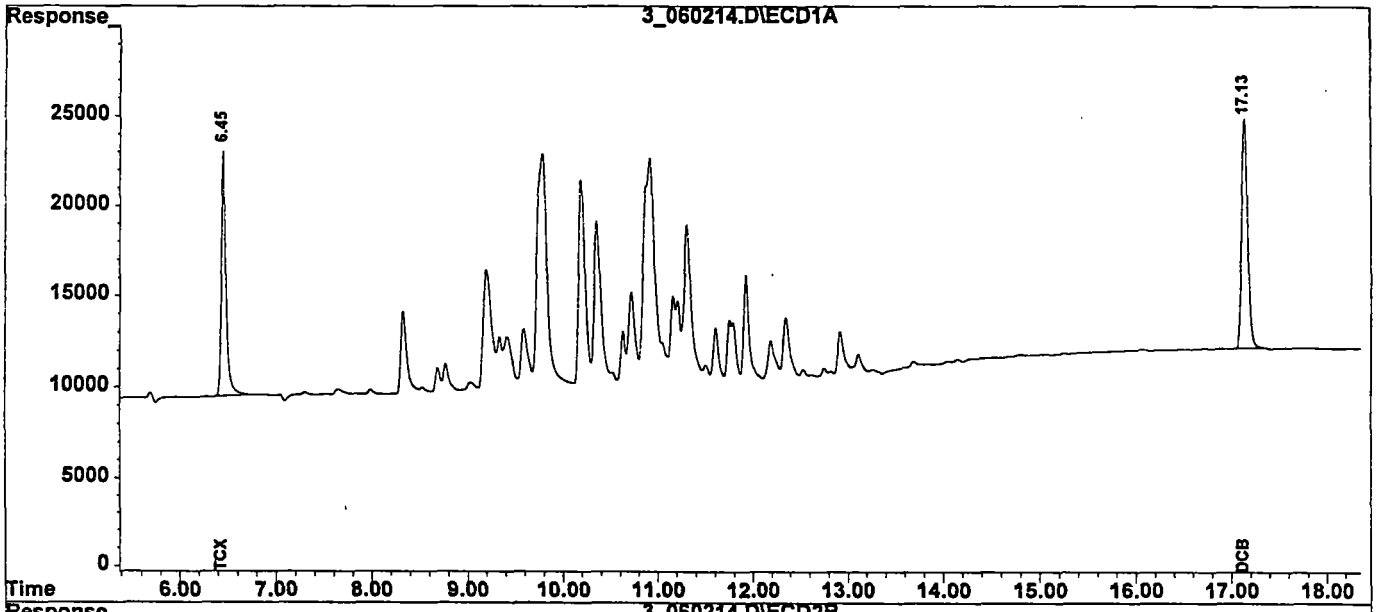
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

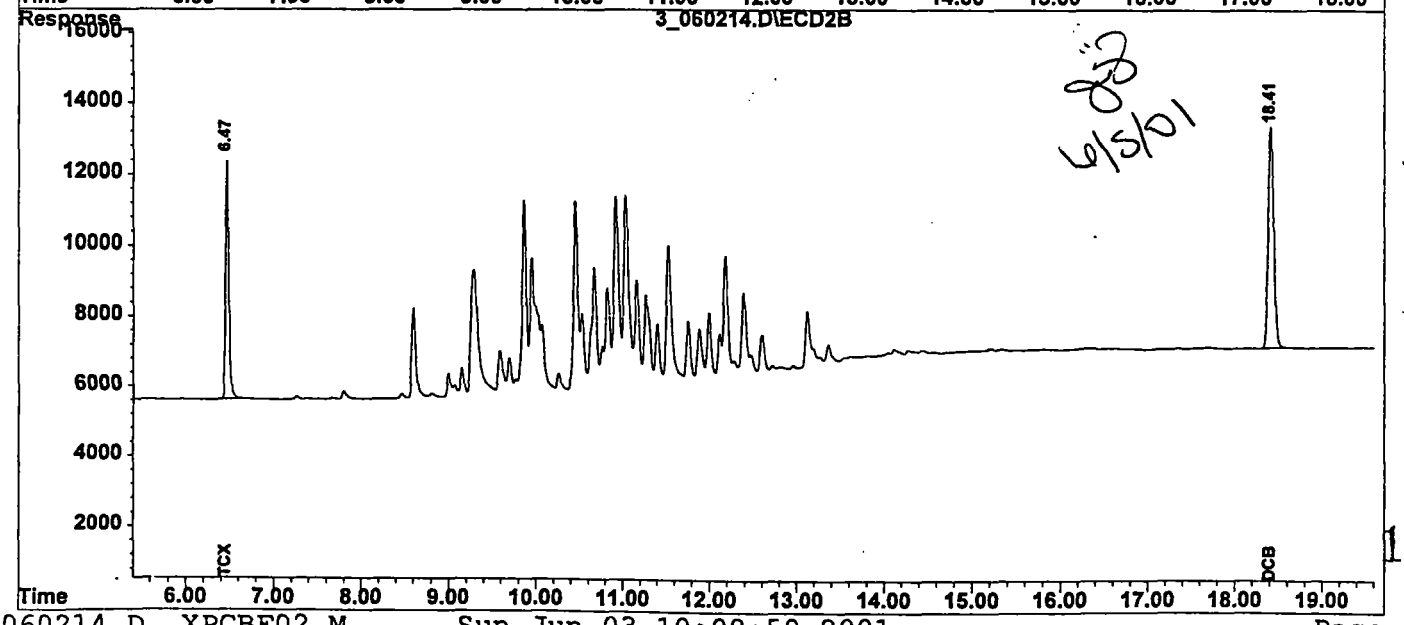
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060214.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060214.D\ECD2B.CH
Acq On : 02 Jun 2001 17:14 Operator: DDC
Sample : AR1248L3B Inst : HP_03
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 10:05 2001 Quant Results File: XPCBF02.RES
Quant Time: Jun 3 10:06 2001 Quant Results File: xspcbf02.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001

Multi-Component Method : f:\hpchem\hp\3\data\06_02_01\xspcbf02.m
Title : PCB/TOXAPHENE
Last Update : Thu May 24 12:57:13 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





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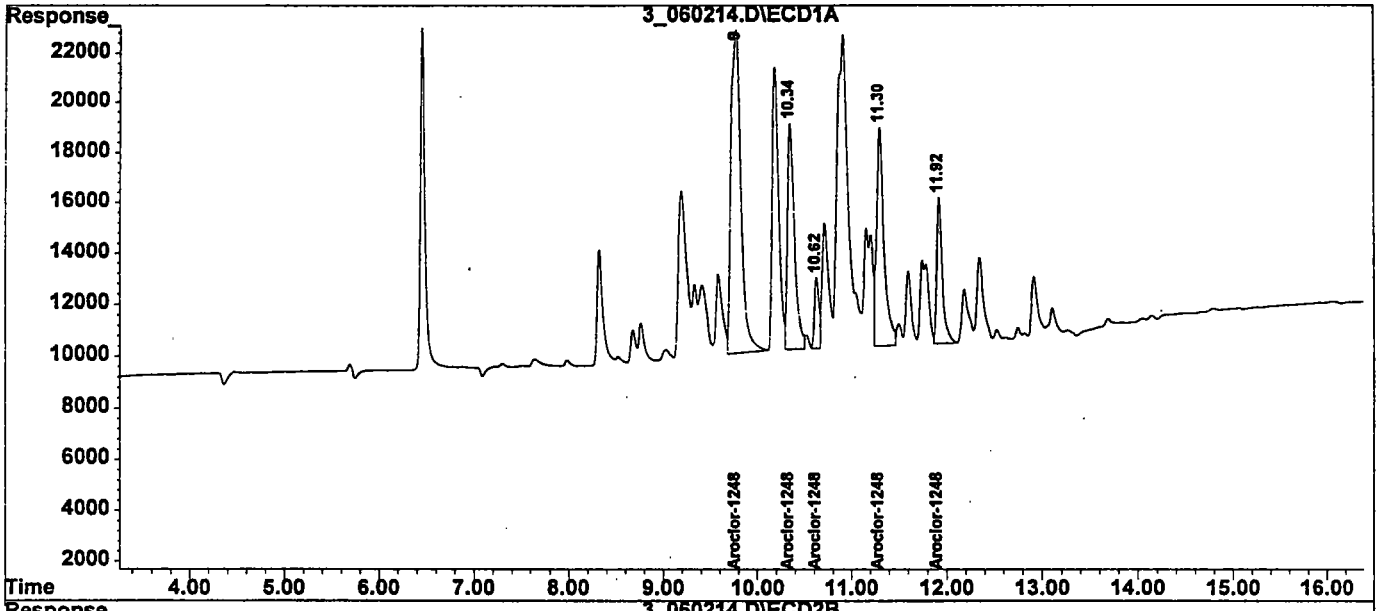
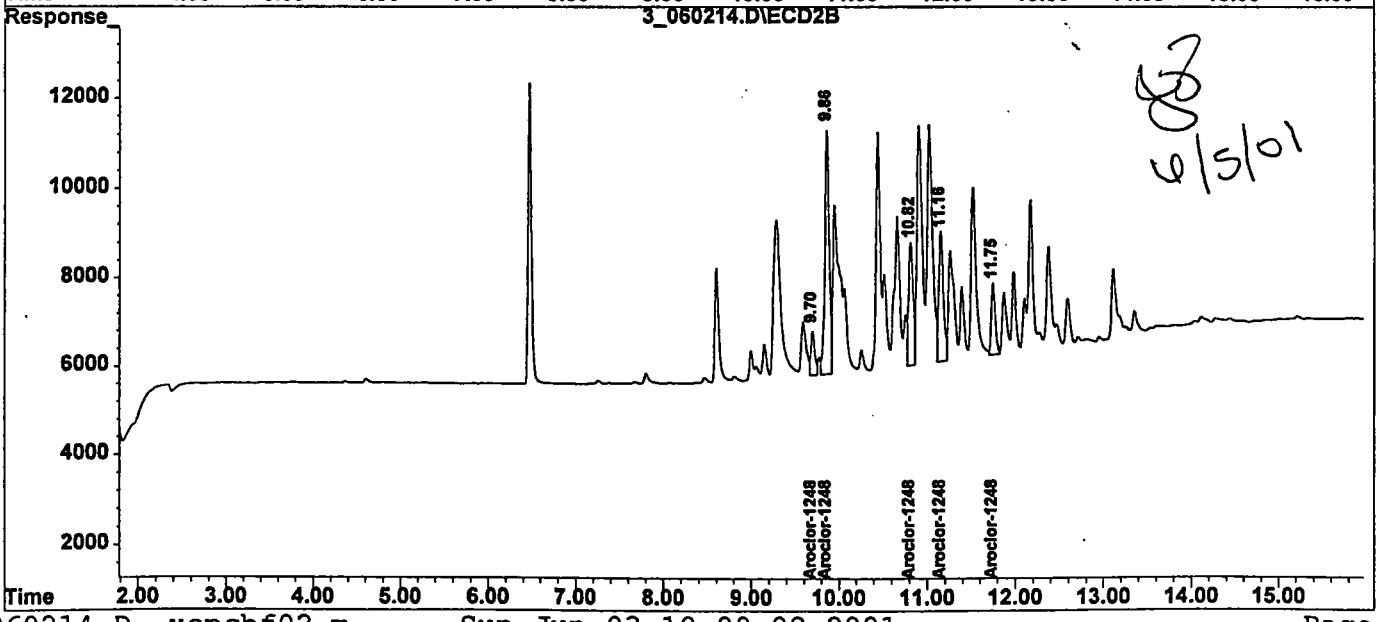
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060214.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060214.D\ECD2B.CH
Acq On : 02 Jun 2001 17:14 Operator: DDC
Sample : AR1248L3B Inst : HP_03
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 10:06 2001 Quant Results File: xspcbf02.RES
Quant Time: Jun 3 10:06 2001 Quant Results File: xspcbf02.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001

Multi-Component Method : f:\hpchem\hp\3\data\06_02_01\xspcbf02.m
Title : PCB/TOXAPHENE
Last Update : Thu May 24 12:57:13 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/5/01

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Response Factor Report HP_03

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Initial Calibration

alibration Files
L1 =3_060215.D L2 =3_060216.D L3 =3_060217.D
L4 =3_060218.D L5 =3_060219.D

Compound	L1	L2	L3	L4	L5	Avg		%RSD
12) Aroclor-1254	958.6	961.4	872.2	884.3	808.7	897.0		7.16
13) Aroclor-1254 {2}	509.9	519.2	489.4	513.5	496.2	505.6		2.46
14) Aroclor-1254 {3}	1.3	1.4	1.3	1.3	1.3	1.3	E3	3.08
15) Aroclor-1254 {4}	439.9	466.3	404.9	413.4	385.0	421.9		7.51
16) Aroclor-1254 {5}	518.9	578.6	511.5	557.9	559.4	545.3		5.28

Signal #2 Calibration Files
L1 =3_060215.D L2 =3_060216.D L3 =3_060217.D
L4 =3_060218.D L5 =3_060219.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
35) Aroclor-1254 #2	150.7	156.3	148.9	158.3	154.1	153.7	2.52
36) Aroclor-1254 {2} #2	207.2	266.9	241.9	251.1	236.8	240.8	9.13
37) Aroclor-1254 {3} #2	356.9	361.3	328.4	343.5	334.5	344.9	4.09
38) Aroclor-1254 {4} #2	620.3	645.6	594.2	627.3	598.5	617.2	3.43
39) Aroclor-1254 {5} #2	463.2	478.9	437.6	457.7	436.5	454.7	3.95

' = Out of Range

XPCBF02.M Sun Jun 03 09:59:37 2001

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29794 SDG E0078
Signature Amelda M. Williams
Date 06/06/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060215.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060215.D\ECD2B.CH
Acq On : 02 Jun 2001 17:38 Operator: DDC
Sample : AR1254L1B Inst : HP_03
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 9:58 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	114970	45189	4.832	4.837
22)	S DCB	17.13	18.42	144718	72081	5.285	5.116
	Target Compounds:						
12)	L6 Aroclor-1254	9.74	10.46	95862	15070	106.9	98.1
13)	L6 Aroclor-1254 {2}	11.60	11.40	50989	20721	106.2	86.1
14)	L6 Aroclor-1254 {3}	12.35	12.00	131180	35691	106.8	103.5
15)	L6 Aroclor-1254 {4}	12.75	12.39	43987	62029	121.1	100.5
	L6 Aroclor-1254 {5}	12.92	12.62	51892	46316	102.9	101.8
	Sum Aroclor-1254			373911	179827	543.9	490.0
	Average Aroclor-1254					108.785	97.990

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0078
Signature Freddy M. William
Date 06/06/01

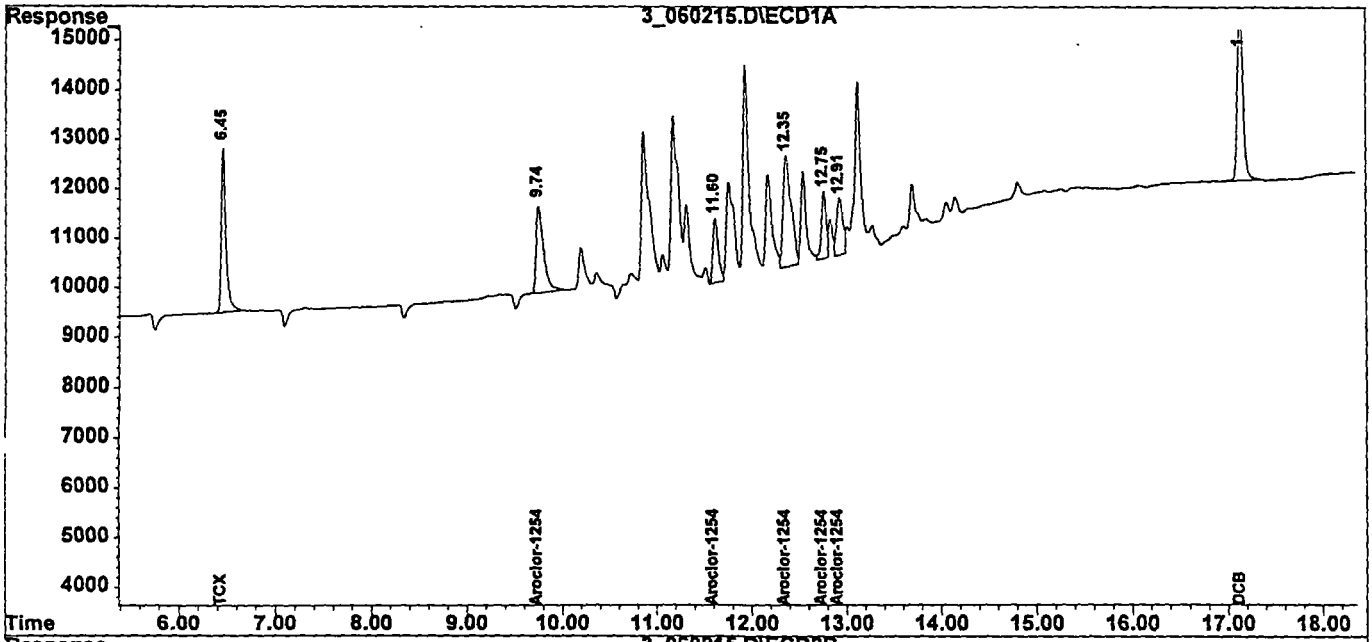
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

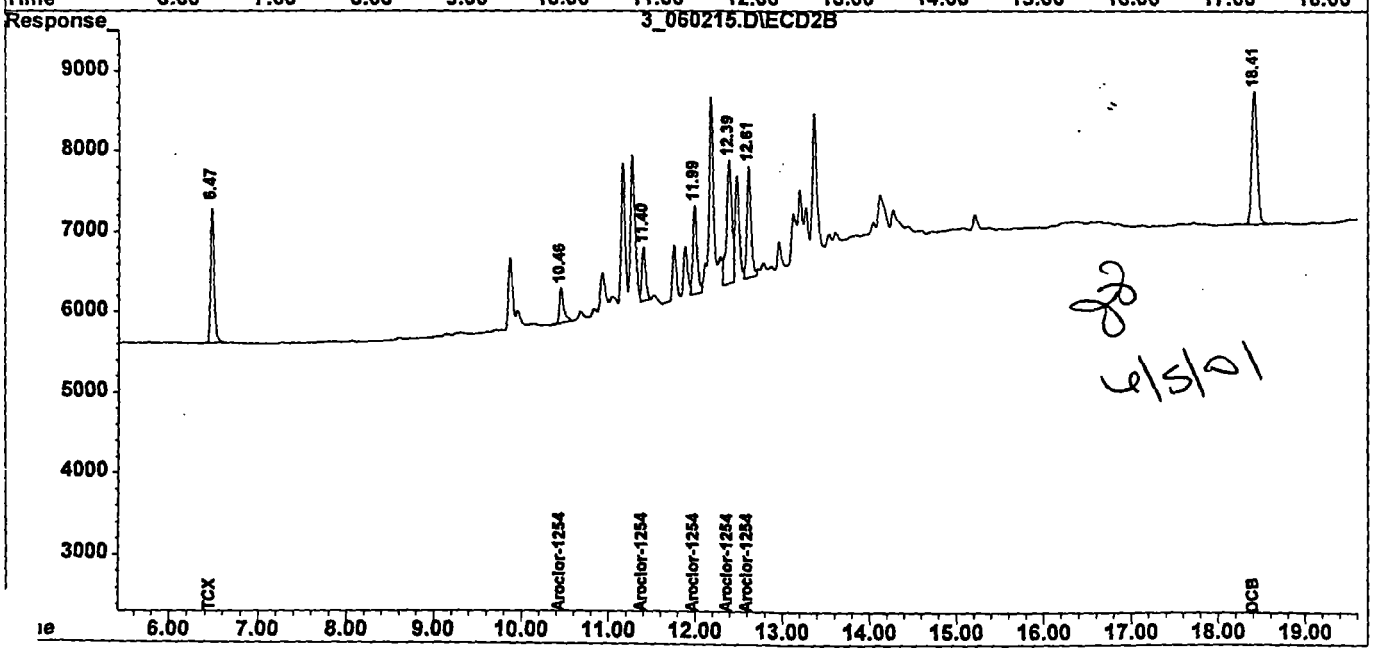
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060215.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060215.D\ECD2B.CH
Acq On : 02 Jun 2001 17:38 Operator: DDC
Sample : AR1254L1B Inst : HP_03
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 9:58 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/5/01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060216.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060216.D\ECD2B.CH
Acq On : 02 Jun 2001 18:03 Operator: DDC
Sample : AR1254L2B Inst : HP_03
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 9:58 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	237084	92877	9.964	9.941
22)	S DCB	17.13	18.42	287460	145302	10.5	10.3
	Target Compounds:						
12)	L6 Aroclor-1254	9.74	10.46	192274	31269	214.3	203.5
13)	L6 Aroclor-1254 {2}	11.60	11.40	103846	53374	215.8	221.7
14)	L6 Aroclor-1254 {3}	12.35	11.99	273465	72258	219.7	209.5
15)	L6 Aroclor-1254 {4}	12.75	12.39	93262	129112	248.6	209.2
	L6 Aroclor-1254 {5}	12.91	12.62	115726	95778	225.9	210.6
	Sum Aroclor-1254			778573	381791	1124.4	1054.4
	Average Aroclor-1254					224.884	210.889

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0078
Signature Arnelda M. William
Date 06/06/01

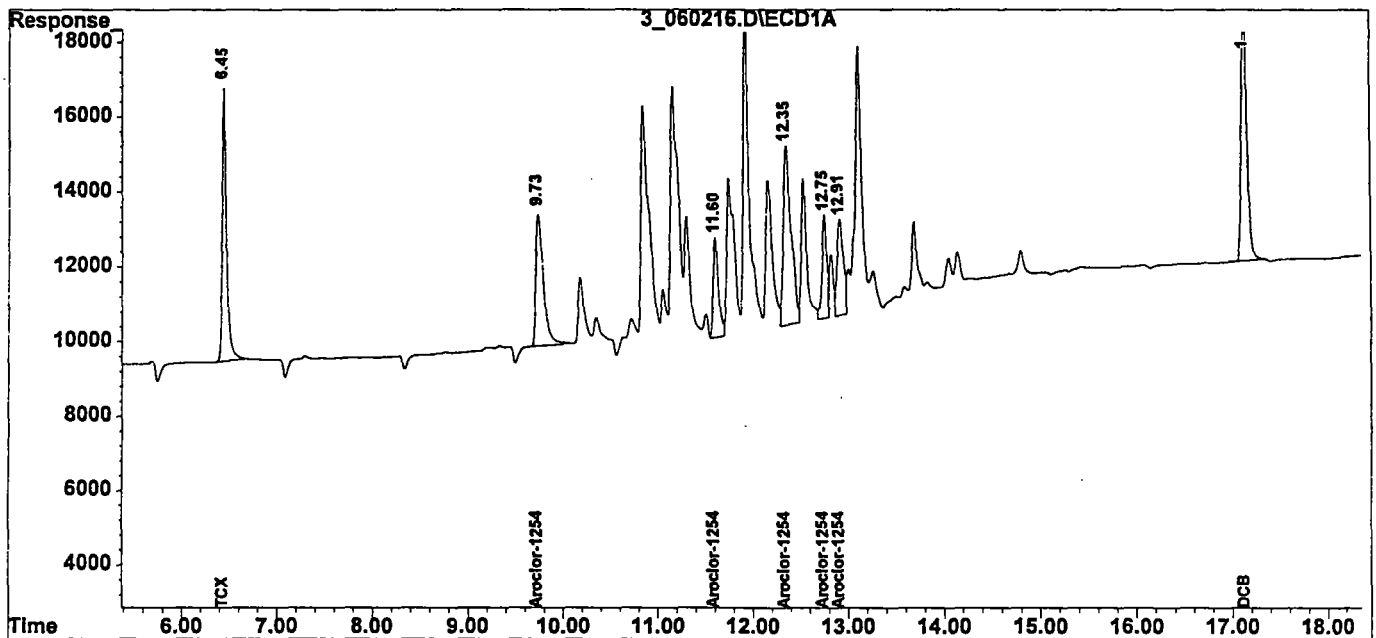
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

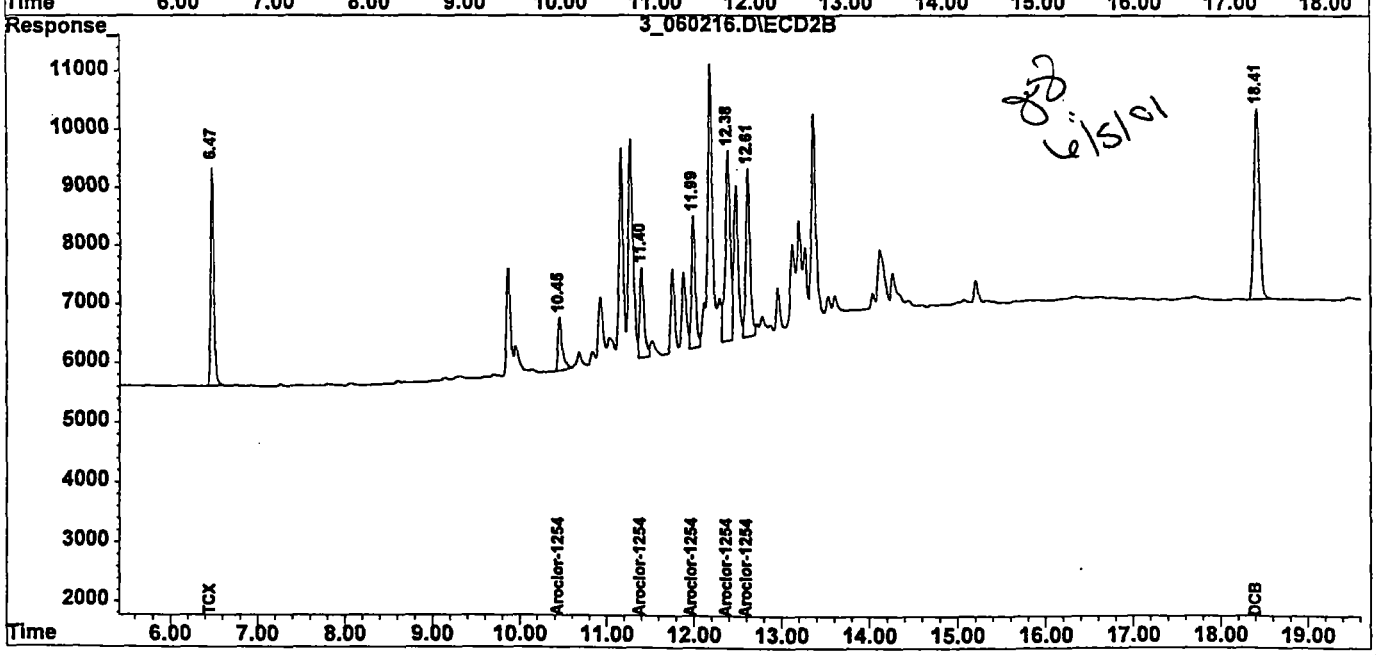
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060216.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060216.D\ECD2B.CH
Acq On : 02 Jun 2001 18:03 Operator: DDC
Sample : AR1254L2B Inst : HP_03
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 9:58 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/5/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060217.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060217.D\ECD2B.CH
Acq On : 02 Jun 2001 18:28 Operator: DDC
Sample : AR1254L3B Inst : HP_03
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 9:58 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	460946	178994	19.4	19.2
22)	S DCB	17.13	18.41	527645	268376	19.2	19.0
	Target Compounds:						
12)	L6 Aroclor-1254	9.74	10.45	348862	59568	388.9	387.6
13)	L6 Aroclor-1254 {2}	11.60	11.40	195744	96779	403.3	401.9
14)	L6 Aroclor-1254 {3}	12.34	11.99	513719	131343	404.5	380.8
1[illegible]	L6 Aroclor-1254 {4}	12.75	12.38	161943	237699	412.2	385.1
	L6 Aroclor-1254 {5}	12.91	12.61	204585	175021	390.2	384.9
	Sum Aroclor-1254			1424852	700410	1999.1	1940.4
	Average Aroclor-1254					399.811	388.070

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CSF 29294 SDG E0078
Signature Arella M. Williams
Date 06/06/01

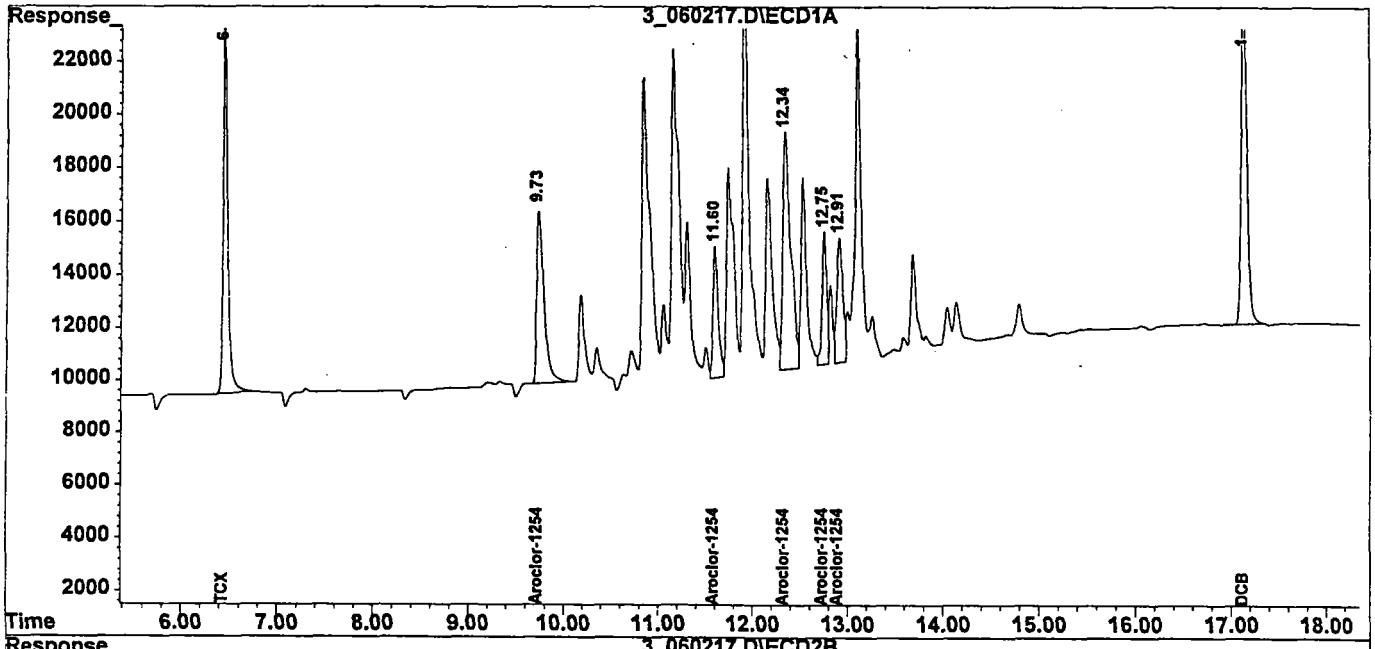
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

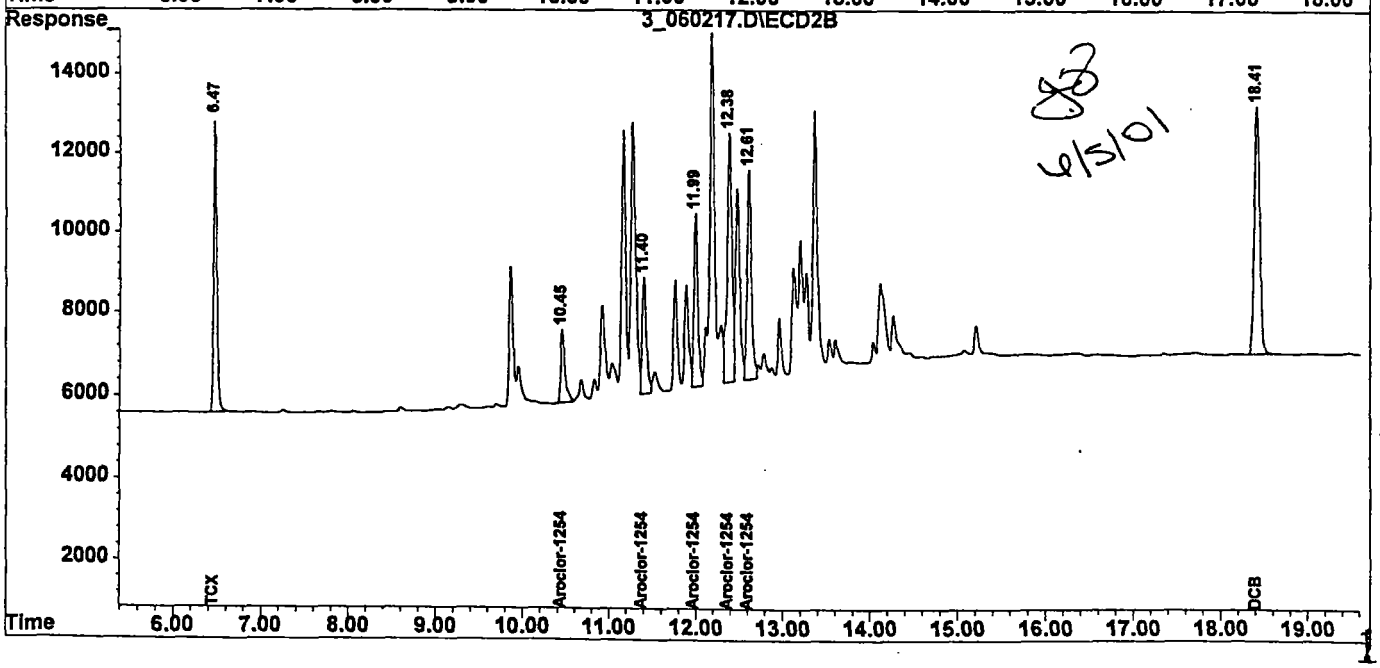
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060217.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060217.D\ECD2B.CH
Acq On : 02 Jun 2001 18:28 Operator: DDC
Sample : AR1254L3B Inst : HP_03
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 9:58 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/5/01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060218.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060218.D\ECD2B.CH
Acq On : 02 Jun 2001 18:53 Operator: DDC
Sample : AR1254L4B Inst : HP_03
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 9:59 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	990719	387436	41.6	41.5
22)	S DCB	17.13	18.41	1106404	570846	40.2	40.5
	Target Compounds:						
12)	L6 Aroclor-1254	9.73	10.45	707463	126627	788.7	824.0
13)	L6 Aroclor-1254 {2}	11.60	11.40	410836	200906	832.7	834.4
14)	L6 Aroclor-1254 {3}	12.34	11.99	1079828	274786	837.9	796.7
15)	L6 Aroclor-1254 {4}	12.75	12.38	330735	501860	817.6	813.1
	L6 Aroclor-1254 {5}	12.90	12.61	446335	366136	838.2	805.1
	Sum Aroclor-1254			2975197	1470316	4115.1	4073.3
	Average Aroclor-1254					823.028	814.664

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ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0078
Signature Anetta M. Williams
Date 06/06/01

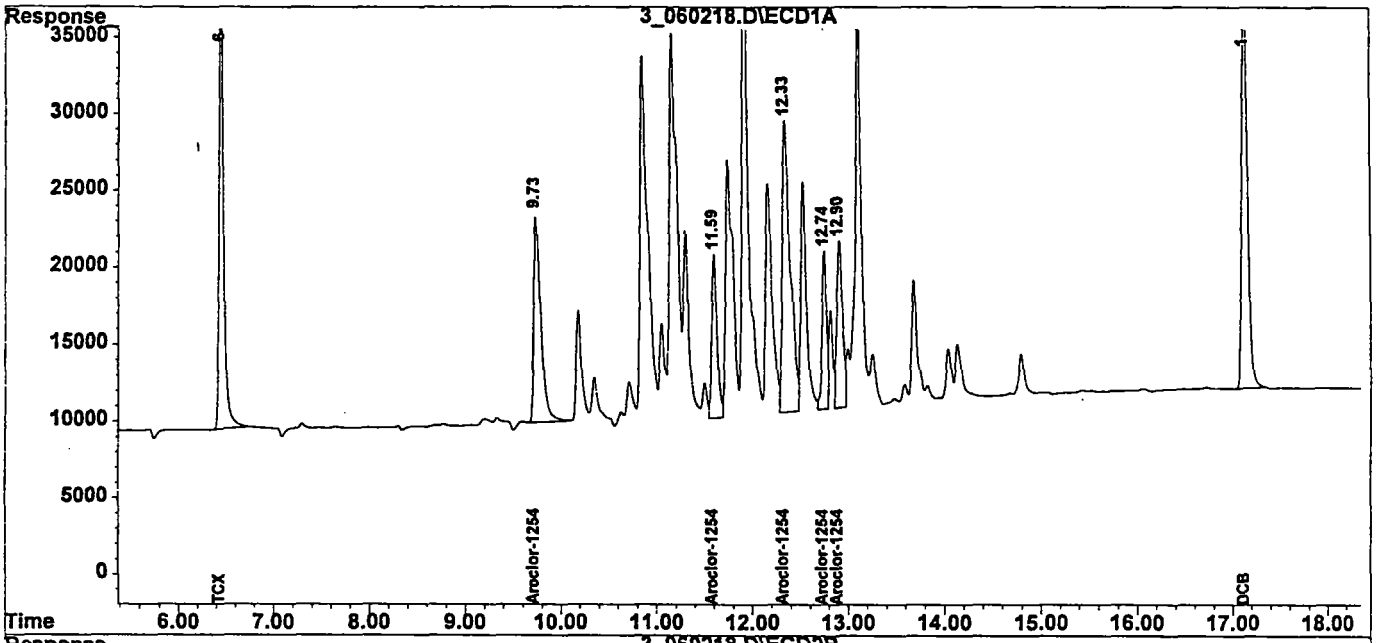
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

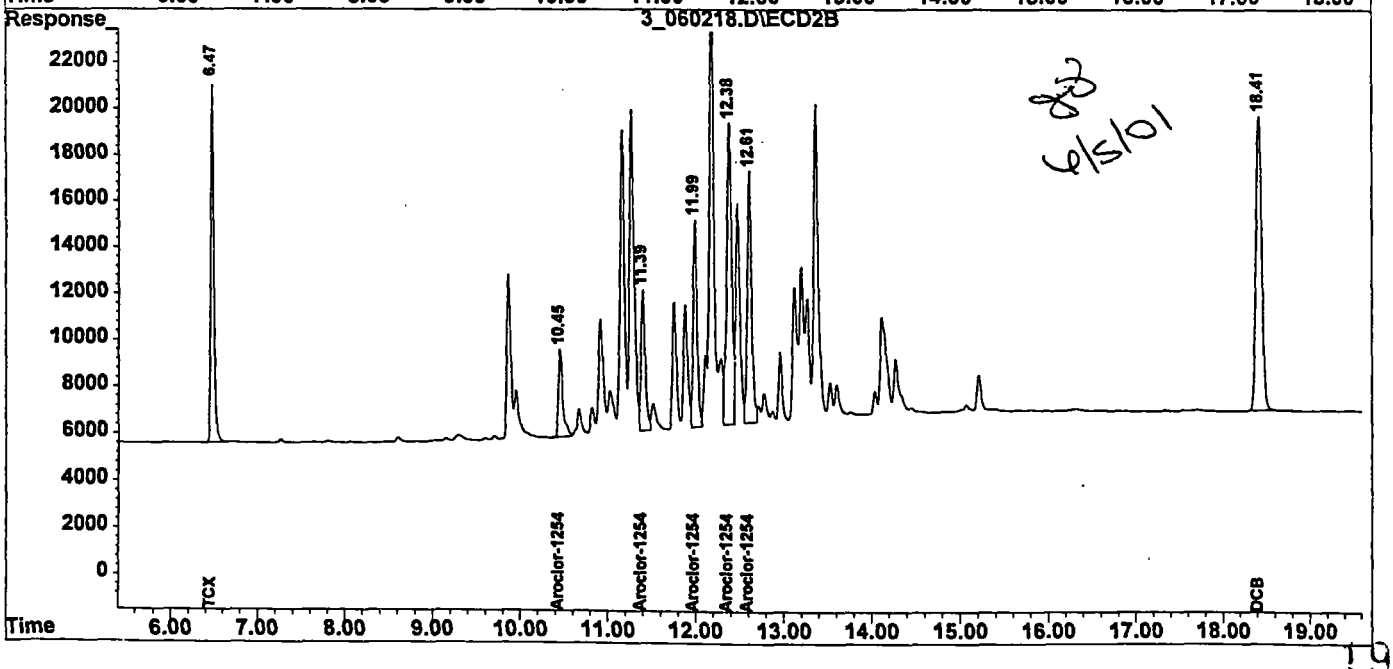
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060218.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060218.D\ECD2B.CH
Acq On : 02 Jun 2001 18:53 Operator: DDC
Sample : AR1254L4B Inst : HP_03
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 9:59 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/5/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060219.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060219.D\ECD2B.CH
Acq On : 02 Jun 2001 19:17 Operator: DDC
Sample : AR1254L5B Inst : HP_03
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 9:59 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	1956481	780228	82.2 E	83.5
22) S DCB	17.13	18.42	2110599	1104818	76.5 E	78.4
Target Compounds:						
12) L6 Aroclor-1254	9.73	10.45	1293919	246571	1442.4	1604.5 E
13) L6 Aroclor-1254 {2}	11.59	11.39	793903	378873	1587.1 E	1573.5 E
14) L6 Aroclor-1254 {3}	12.33	11.99	2038103	535273	1561.8 E	1551.9
L6 Aroclor-1254 {4}	12.75	12.38	616079	957673	1487.1 E	1551.7
L6 Aroclor-1254 {5}	12.90	12.61	895054	698348	1658.9 E	1535.7 E
Sum Aroclor-1254			5637059	2816738	7737.3	7817.2
Average Aroclor-1254					1547.451	1563.443

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ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0078
Signature Arielda M. Williams
Date 06/06/01

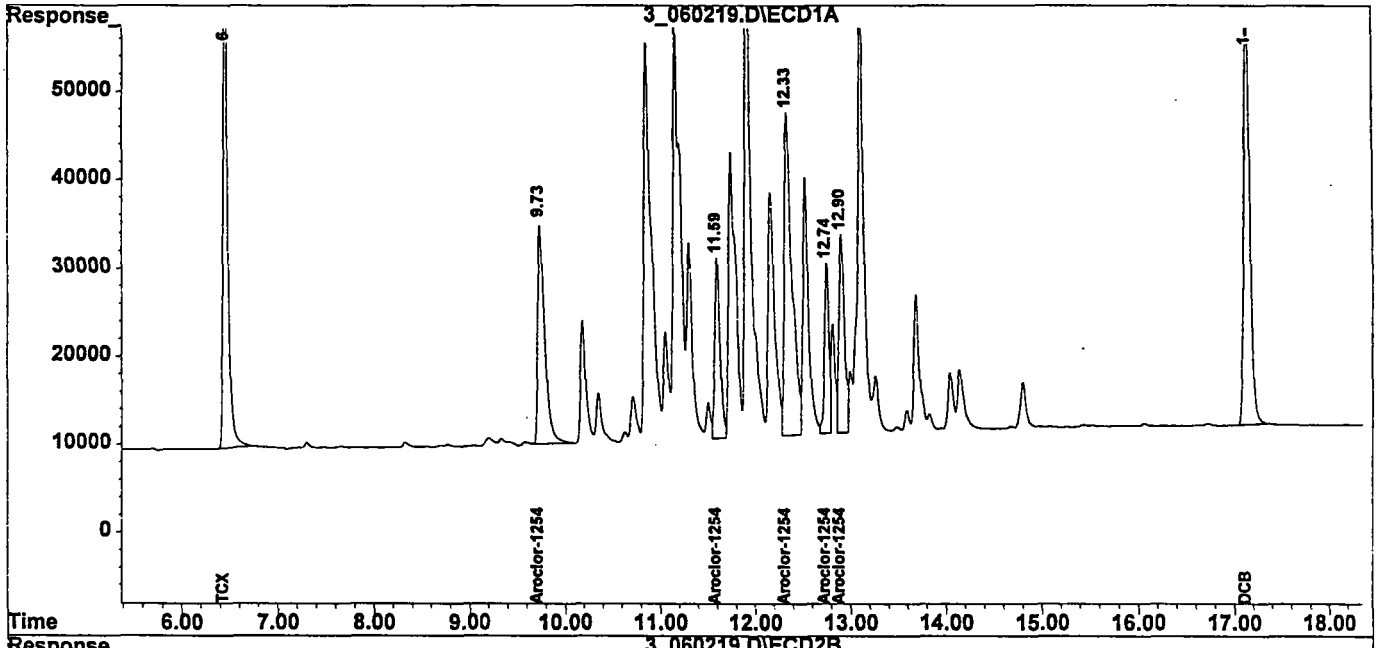
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

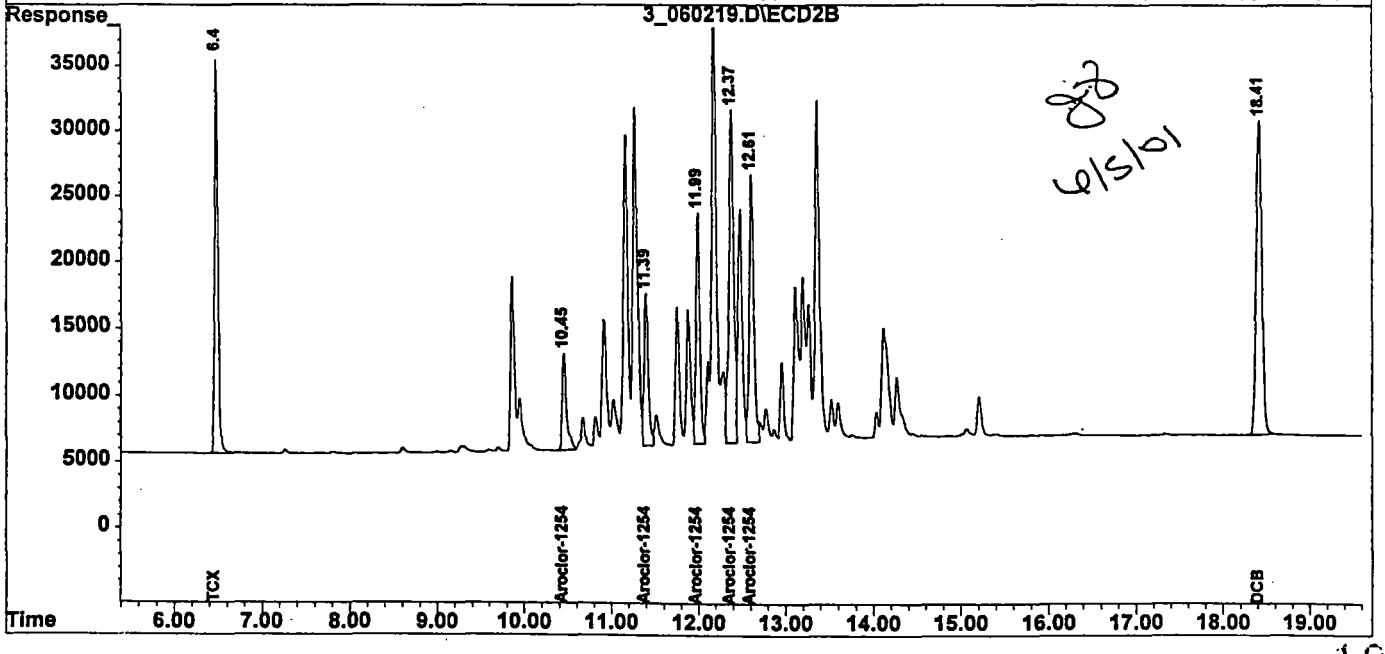
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060219.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060219.D\ECD2B.CH
Acq On : 02 Jun 2001 19:17 Operator: DDC
Sample : AR1254L5B Inst : HP_03
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 9:59 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/5/01

Response Factor Report HP_03

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Initial Calibration

alibration Files
L1 =3_060220.D L2 =3_060221.D L3 =3_060222.D
L4 =3_060223.D L5 =3_060224.D

	Compound	L1	L2	L3	L4	L5	Avg		%RSD
1)	TCX	22.4	23.9	24.2	24.1	23.3	23.6	E3	3.14
2)	Aroclor-1016	532.6	557.2	545.2	515.9	470.6	524.3		6.43
3)	Aroclor-1016 {2}	1.2	1.2	1.2	1.0	1.0	1.1	E3	10.47
4)	Aroclor-1016 {3}	1.8	1.9	1.9	1.9	1.8	1.9	E3	3.17
5)	Aroclor-1016 {4}	704.8	701.3	689.6	663.3	624.4	676.7		4.94
6)	Aroclor-1016 {5}	984.1	968.7	923.6	897.7	840.3	922.9		6.25
17)	Aroclor-1260	1.3	1.2	1.1	1.1	1.0	1.1	E3	9.43
18)	Aroclor-1260 {2}	1.3	1.2	1.2	1.2	1.1	1.2	E3	5.68
19)	Aroclor-1260 {3}	1.2	1.1	1.0	1.0	0.9	1.0	E3	10.45
20)	Aroclor-1260 {4}	743.5	725.0	698.1	700.9	672.1	707.9		3.86
21)	Aroclor-1260 {5}	1.7	1.7	1.6	1.7	1.6	1.7	E3	1.80
22)	DCB	28.4	26.8	25.6	25.9	24.6	26.3	E3	5.35

Signal #2 Calibration Files
L1 =3_060220.D L2 =3_060221.D L3 =3_060222.D
L4 =3_060223.D L5 =3_060224.D

	Compound	L1	L2	L3	L4	L5	Avg		%RSD
)	TCX #2	8.9	9.4	9.4	9.5	9.4	9.3	E3	2.56
25)	Aroclor-1016 #2	184.1	194.6	210.8	199.9	184.5	194.8		5.76
26)	Aroclor-1016 {2} #2	548.0	555.7	525.3	494.2	449.1	514.5		8.48
27)	Aroclor-1016 {3} #2	1.0	1.1	1.0	1.0	0.9	1.0	E3	6.00
28)	Aroclor-1016 {4} #2	306.0	326.6	326.4	327.9	312.7	319.9		3.11
29)	Aroclor-1016 {5} #2	294.2	300.9	293.5	297.3	284.5	294.1		2.08
40)	Aroclor-1260 #2	658.4	667.5	631.8	609.4	564.5	626.3		6.62
41)	Aroclor-1260 {2} #2	708.1	721.5	689.1	675.5	635.2	685.9		4.86
42)	Aroclor-1260 {3} #2	619.1	591.3	563.5	551.7	534.2	572.0		5.87
43)	Aroclor-1260 {4} #2	376.3	380.8	368.3	367.3	363.1	371.2		1.94
44)	Aroclor-1260 {5} #2	1.1	1.0	1.0	1.1	1.1	1.1	E3	1.65
45)	DCB #2	13.9	13.6	13.1	13.3	12.9	13.4	E3	3.04

(#) = Out of Range

XPCBF02.M Sun Jun 03 10:02:19 2001

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0078
Signature Gwendolyn M. Williams
Date 06/06/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060220.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060220.D\ECD2B.CH
Acq On : 02 Jun 2001 19:42 Operator: DDC
Sample : AR1660L1B Inst : HP_03
Misc : 5-447-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 10:01 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	111993	44399	4.707	4.752
22)	S DCB	17.14	18.42	141775	69733	5.133	4.949
	Target Compounds:						
2)	L1 Aroclor-1016	7.64	7.80	53256	18408	117.7	105.0
3)	L1 Aroclor-1016 {2}	8.32	8.60	117369	54799	118.6	120.1
4)	L1 Aroclor-1016 {3}	9.20	9.30	184542	103099	114.9	120.5
[illegible]	L1 Aroclor-1016 {4}	9.60	9.60	70485	30598	133.7	115.0
	L1 Aroclor-1016 {5}	10.19	10.46	98413	29422	133.6	120.4
	Sum Aroclor-1016			524065	236326	618.5	581.0
	Average Aroclor-1016					123.696	116.196
17)	L7 Aroclor-1260	12.16	12.48	128295	65837	137.9	123.1
18)	L7 Aroclor-1260 {2}	12.53	12.62	131517	70809	130.8	119.3
19)	L7 Aroclor-1260 {3}	13.15	13.41	116660	61913	130.5	120.8
20)	L7 Aroclor-1260 {4}	13.67	14.04	74351	37626	116.6	110.0
21)	L7 Aroclor-1260 {5}	14.14	14.28	169773	105730	117.4	111.8
	Sum Aroclor-1260			620596	341914	633.2	585.0
	Average Aroclor-1260					126.632	117.006

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ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0078
Signature Freda M. Williams
Date 06/06/01

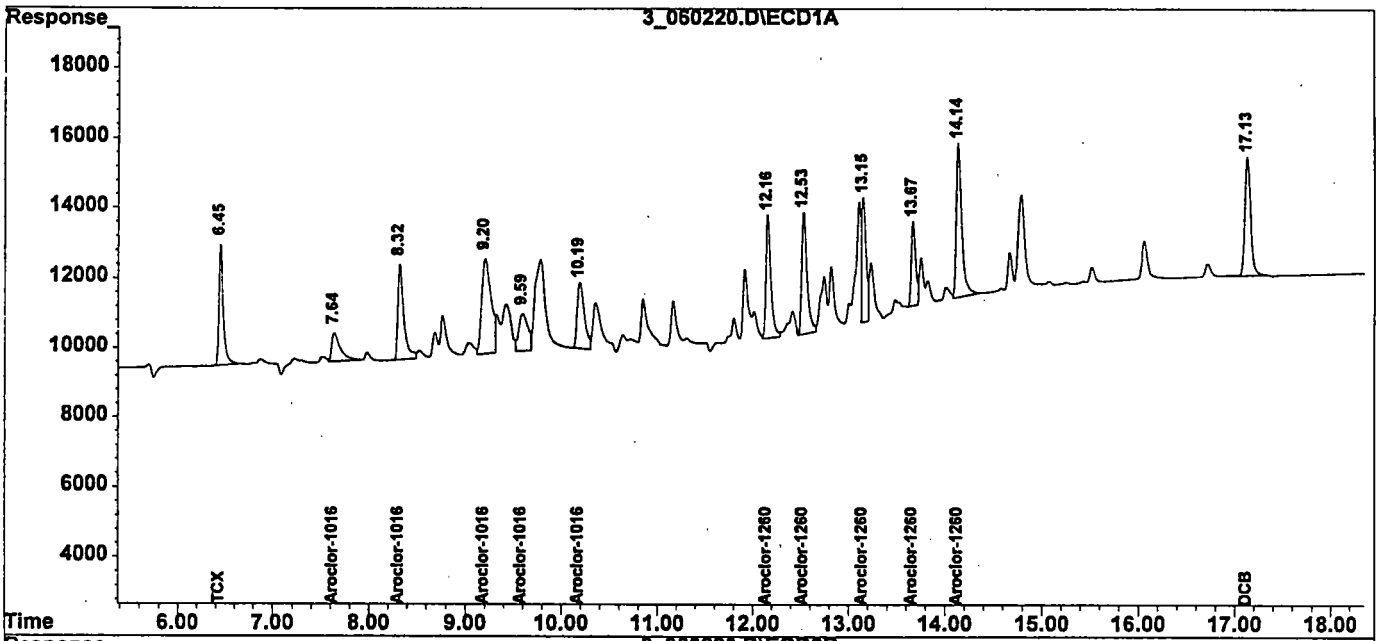
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

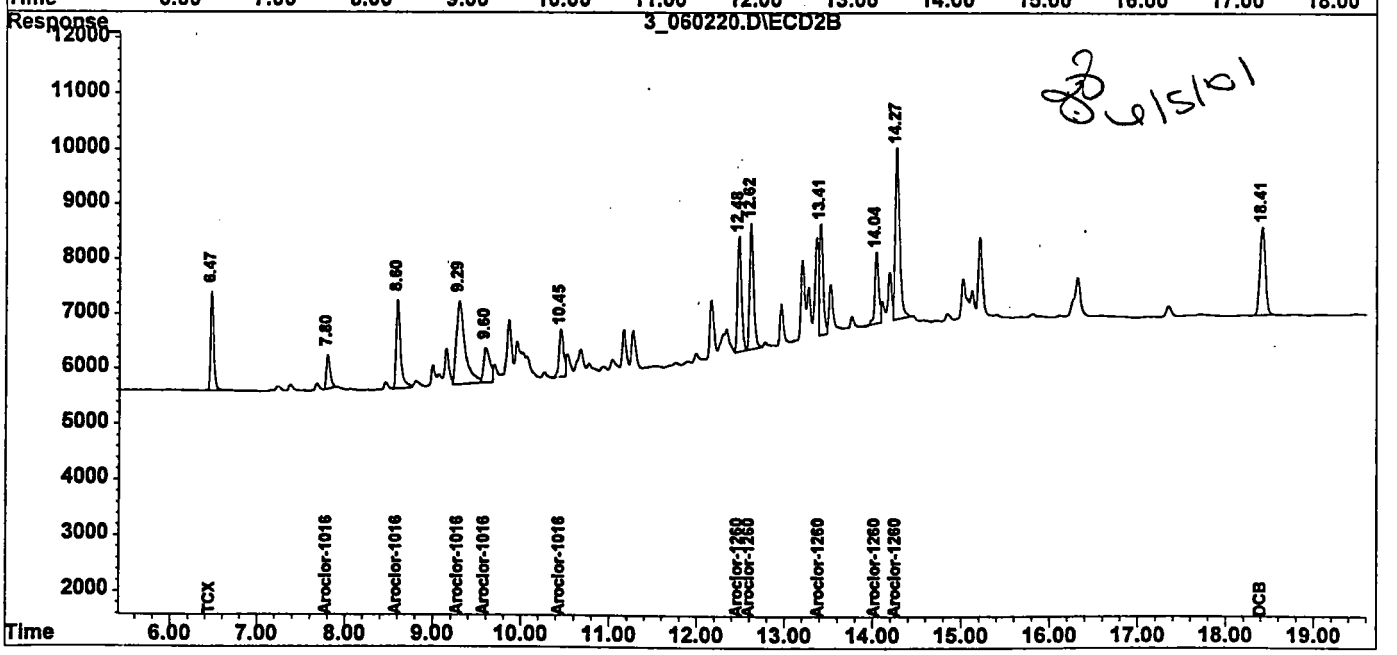
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060220.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060220.D\ECD2B.CH
Acq On : 02 Jun 2001 19:42 Operator: DDC
Sample : AR1660L1B Inst : HP_03
Misc : 5-447-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 10:01 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/5/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060221.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060221.D\ECD2B.CH
Acq On : 02 Jun 2001 20:07 Operator: DDC
Sample : AR1660L2B Inst : HP_03
Misc : 5-446-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 10:01 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	239013	93714	10.1	10.1
22)	S DCB	17.14	18.42	268281	135966	9.754	9.715
	Target Compounds:						
2)	L1 Aroclor-1016	7.64	7.80	111431	38926	246.4	224.5
3)	L1 Aroclor-1016 {2}	8.32	8.60	242267	111134	247.0	245.4
4)	L1 Aroclor-1016 {3}	9.19	9.30	384360	211284	245.6	245.4
[illegible]	L1 Aroclor-1016 {4}	9.59	9.60	140257	65321	256.4	240.9
	L1 Aroclor-1016 {5}	10.19	10.46	193743	60188	255.4	244.0
	Sum Aroclor-1016			1072059	486853	1250.7	1200.2
	Average Aroclor-1016					250.139	240.047
17)	L7 Aroclor-1260	12.16	12.48	240570	133507	250.8	248.9
18)	L7 Aroclor-1260 {2}	12.53	12.62	246696	144304	239.0	244.4
19)	L7 Aroclor-1260 {3}	13.16	13.41	214947	118266	241.3	233.3
20)	L7 Aroclor-1260 {4}	13.68	14.05	144996	76165	234.4	225.1
21)	L7 Aroclor-1260 {5}	14.14	14.28	332948	207953	233.0	223.8
	Sum Aroclor-1260			1180158	680195	1198.4	1175.5
	Average Aroclor-1260					239.681	235.099

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0078
Signature Joselda M. Williams
Date 06/06/01

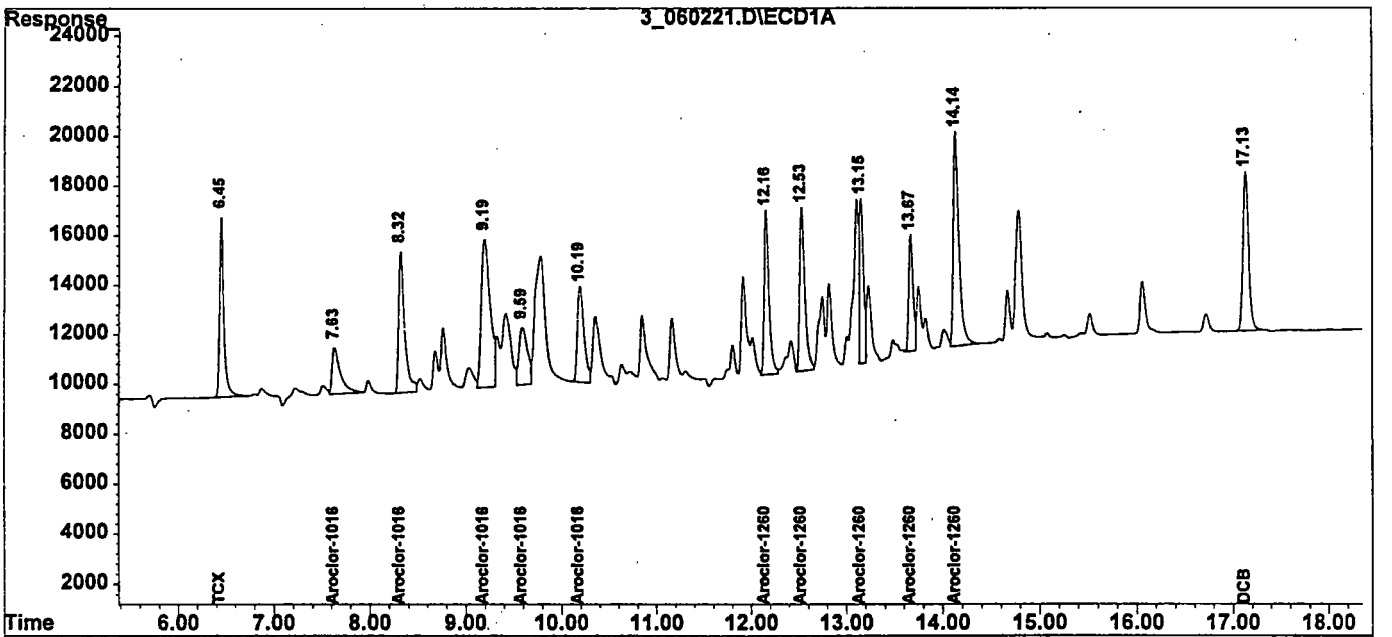
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

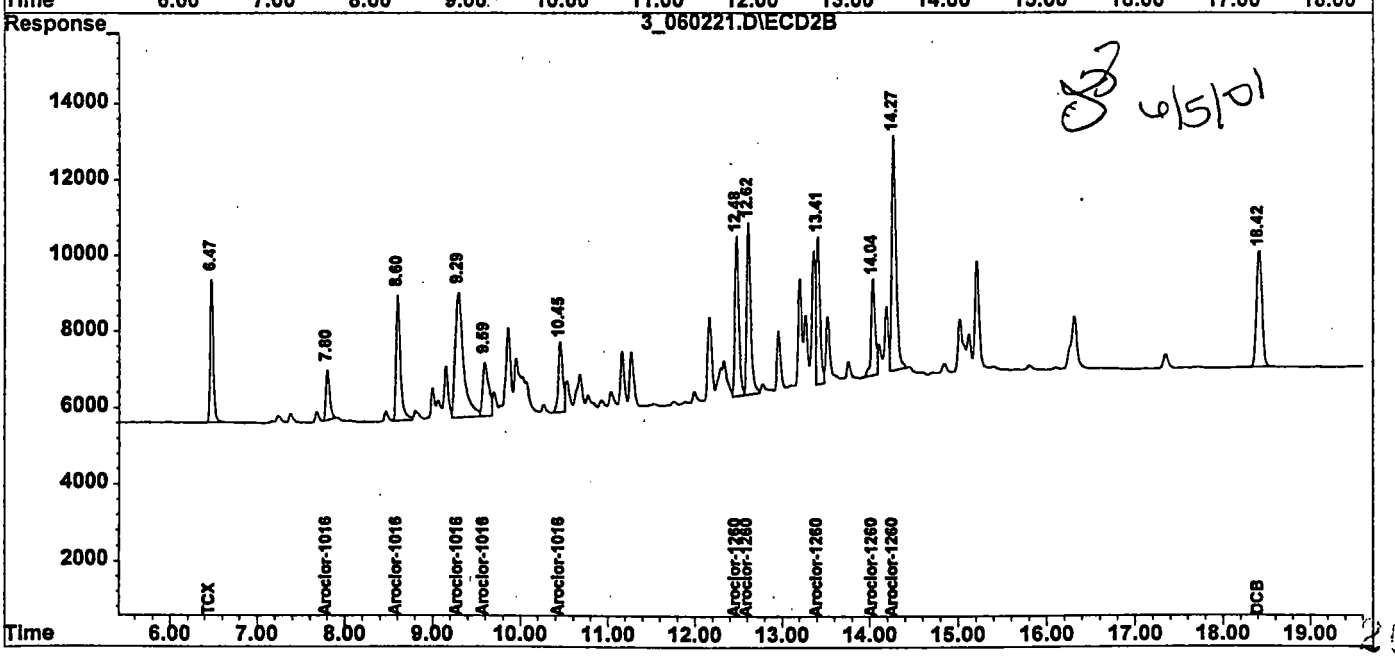
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060221.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060221.D\ECD2B.CH
Acq On : 02 Jun 2001 20:07 Operator: DDC
Sample : AR1660L2B Inst : HP_03
Misc : 5-446-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 10:01 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/5/01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060222.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060222.D\ECD2B.CH
Acq On : 02 Jun 2001 20:31 Operator: DDC
Sample : AR1660L3R Inst : HP_03
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 10:01 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	484213	188373	20.4	20.2
22)	S DCB	17.14	18.42	512596	262893	18.9	19.0
	Target Compounds:						
2)	L1 Aroclor-1016	7.63	7.80	218086	84325	459.2	468.6
3)	L1 Aroclor-1016 {2}	8.32	8.60	488206	210132	477.5	444.8
4)	L1 Aroclor-1016 {3}	9.18	9.29	773703	406049	465.4	449.4
	L1 Aroclor-1016 {4}	9.59	9.59	275828	130542	469.3	456.0
	L1 Aroclor-1016 {5}	10.19	10.46	369429	117398	454.9	449.6
	Sum Aroclor-1016			2125253	948447	2326.3	2268.3
	Average Aroclor-1016					465.264	453.670
17)	L7 Aroclor-1260	12.16	12.48	446362	252728	437.6	445.4
18)	L7 Aroclor-1260 {2}	12.53	12.62	497157	275631	456.1	442.2
19)	L7 Aroclor-1260 {3}	13.16	13.41	399069	225388	428.0	425.8
20)	L7 Aroclor-1260 {4}	13.68	14.05	279247	147310	433.1	415.1
21)	L7 Aroclor-1260 {5}	14.14	14.28	659208	411090	441.7	421.6
	Sum Aroclor-1260			2281043	1312146	2196.4	2150.1
	Average Aroclor-1260					439.286	430.016

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ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 CDG E0078
Signature Sheila M. Williams
Date 06/06/01

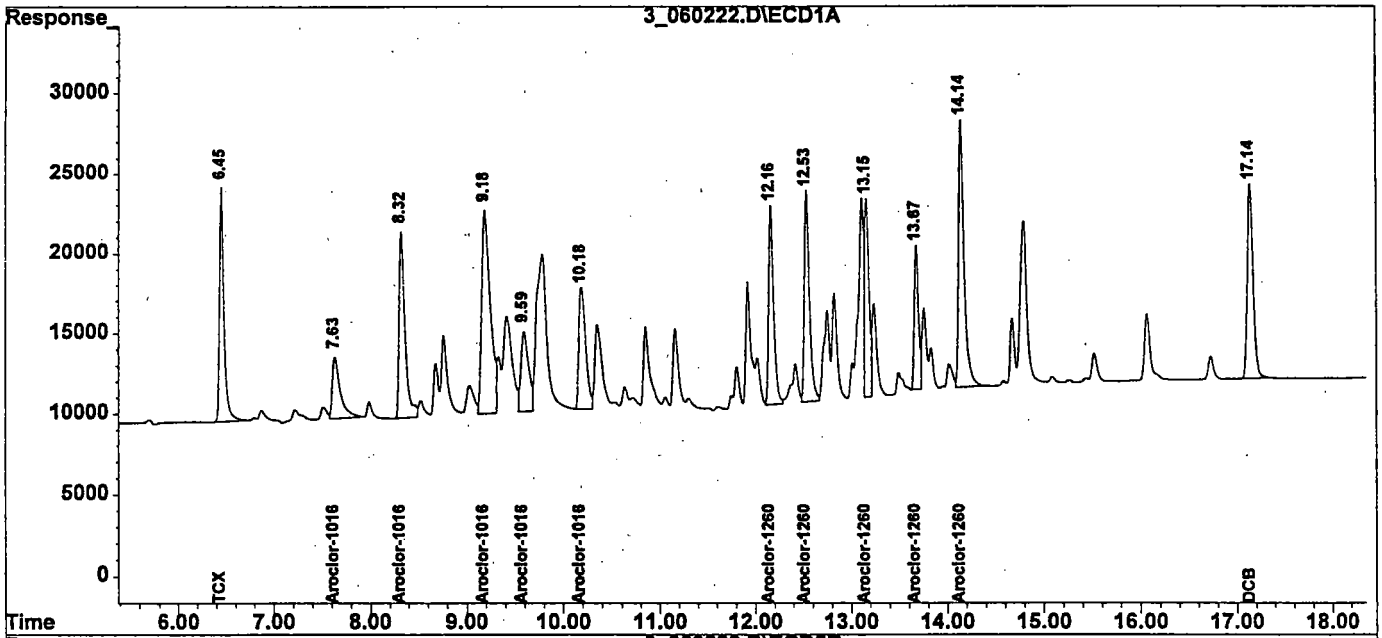
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

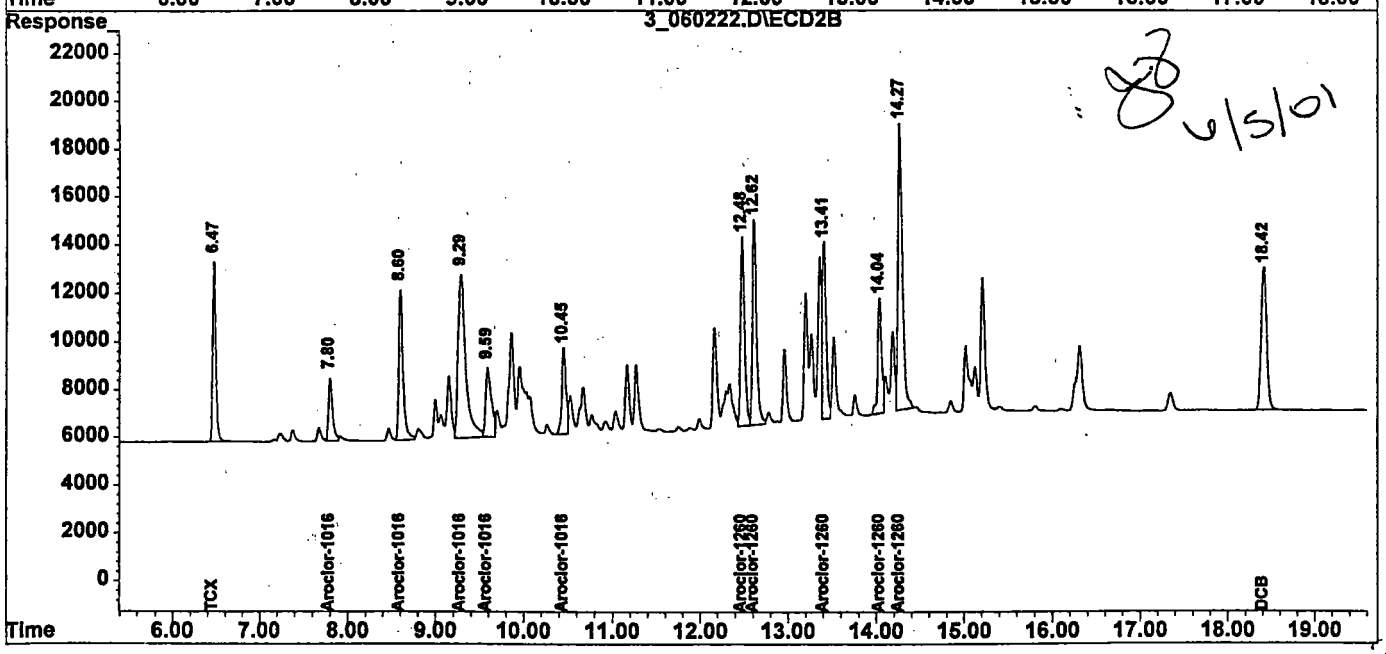
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060222.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060222.D\ECD2B.CH
Acq On : 02 Jun 2001 20:31 Operator: DDC
Sample : AR1660L3R Inst : HP_03
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 10:01 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/5/01

205

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060223.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060223.D\ECD2B.CH
Acq On : 02 Jun 2001 20:56 Operator: DDC
Sample : AR1660L4B Inst : HP_03
Misc : 5-444-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 10:01 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	962923	378791	40.2	40.2
22)	S DCB	17.14	18.42	1034940	533119	38.4	38.8
	Target Compounds:						
2)	L1 Aroclor-1016	7.63	7.80	412698	159953	838.9	867.9
3)	L1 Aroclor-1016 {2}	8.32	8.60	839272	395366	785.8	814.9
4)	L1 Aroclor-1016 {3}	9.18	9.29	1530223	783810	882.7	842.5
	L1 Aroclor-1016 {4}	9.59	9.59	530615	262326	856.8	887.5
	L1 Aroclor-1016 {5}	10.18	10.46	718176	237830	848.8	881.8
	Sum Aroclor-1016			4030984	1839285	4213.0	4294.7
	Average Aroclor-1016					842.591	858.946
17)	L7 Aroclor-1260	12.16	12.48	866636	487509	825.2	839.4
18)	L7 Aroclor-1260 {2}	12.53	12.62	942192	540414	833.2	850.6
19)	L7 Aroclor-1260 {3}	13.16	13.41	764236	441348	804.9	824.8
20)	L7 Aroclor-1260 {4}	13.68	14.05	560738	293848	856.0	834.4
21)	L7 Aroclor-1260 {5}	14.14	14.28	1328621	841810	872.4	860.1
	Sum Aroclor-1260			4462423	2604928	4191.7	4209.3
	Average Aroclor-1260					838.337	841.868

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0078
Signature Imelda M. Williams
Date 06/06/01

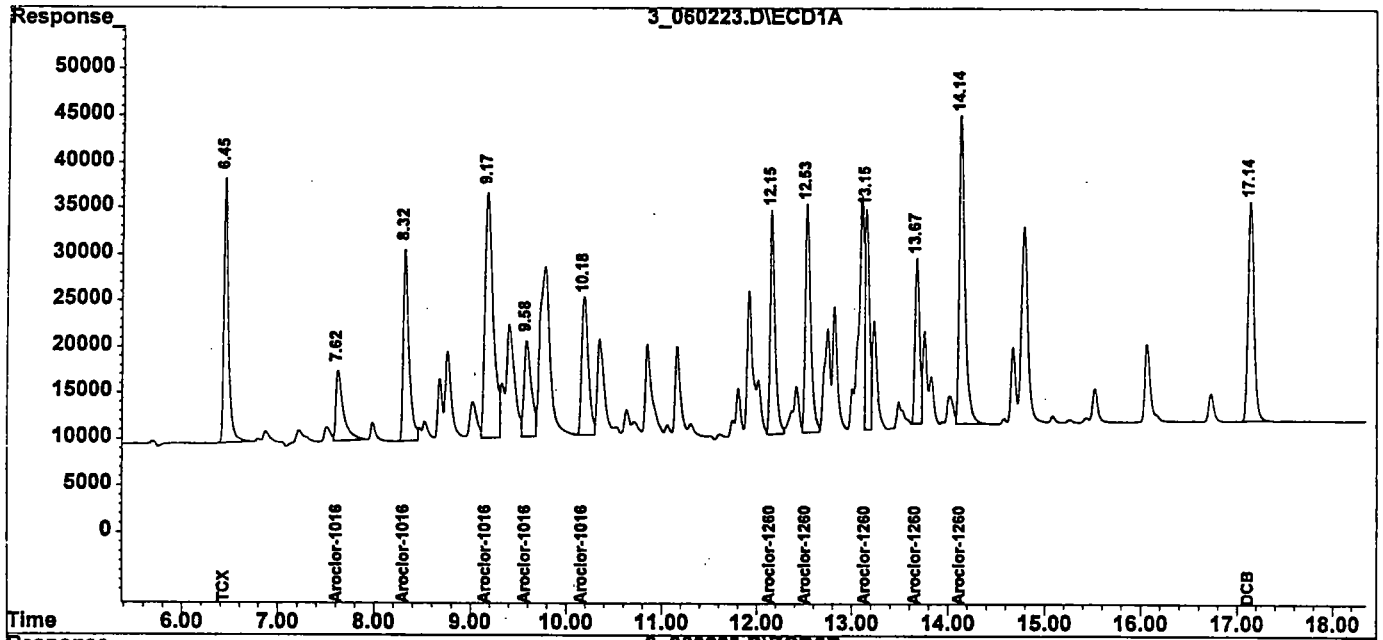
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
3_060223.D XPCBF02.M Sun Jun 03 10:01:58 2001

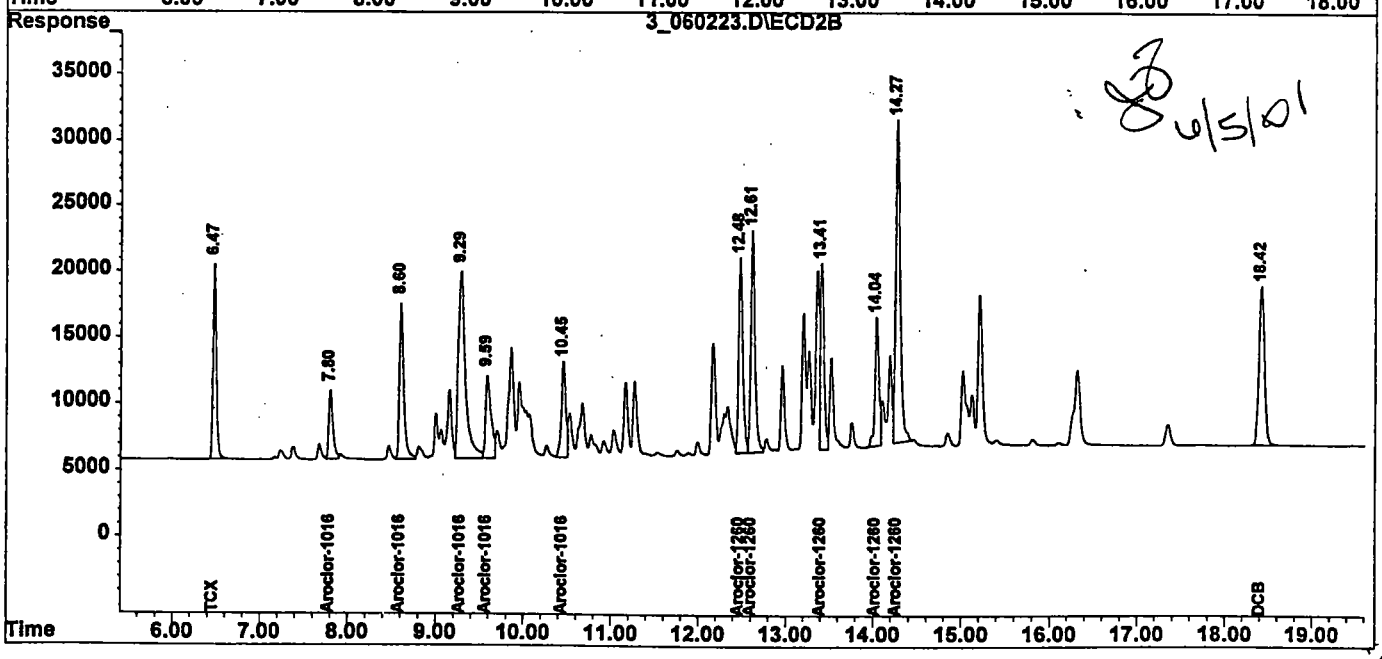
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060223.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060223.D\ECD2B.CH
Acq On : 02 Jun 2001 20:56 Operator: DDC
Sample : AR1660L4B Inst : HP_03
Misc : 5-444-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 10:01 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/5/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060224.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060224.D\ECD2B.CH
Acq On : 02 Jun 2001 21:21 Operator: DDC
Sample : AR1660L5B Inst : HP_03
Misc : 5-443-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 10:02 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	1867113	748321	78.4	79.8
22)	S DCB	17.14	18.42	1970715	1031703	74.0	76.1
	Target Compounds:						
2)	L1 Aroclor-1016	7.62	7.80	752880	295256	1466.1 E	1543.2 E
3)	L1 Aroclor-1016 {2}	8.32	8.60	1520685	718639	1377.9 E	1424.4 E
4)	L1 Aroclor-1016 {3}	9.17	9.28	2871773	1443592	1567.3 E	1482.2 E
	L1 Aroclor-1016 {4}	9.58	9.58	999119	500314	1524.8 E	1606.5 E
	L1 Aroclor-1016 {5}	10.18	10.45	1344424	455129	1502.5 E	1596.1 E
	Sum Aroclor-1016			7488882	3412931	7438.8	7652.5
	Average Aroclor-1016					1487.750	1530.498
17)	L7 Aroclor-1260	12.16	12.48	1609625	903155	1453.8 E	1481.7 E
18)	L7 Aroclor-1260 {2}	12.53	12.61	1811704	1016266	1528.6 E	1523.2 E
19)	L7 Aroclor-1260 {3}	13.15	13.41	1429151	854710	1439.5 E	1533.6 E
20)	L7 Aroclor-1260 {4}	13.67	14.04	1075417	580964	1559.1 E	1600.8 E
21)	L7 Aroclor-1260 {5}	14.14	14.27	2584591	1716979	1606.6 E	1682.7 E
	Sum Aroclor-1260			8510487	5072074	7587.5	7822.0
	Average Aroclor-1260					1517.507	1564.400

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0078
Signature Gwelda M. Williams
Date 06/06/01

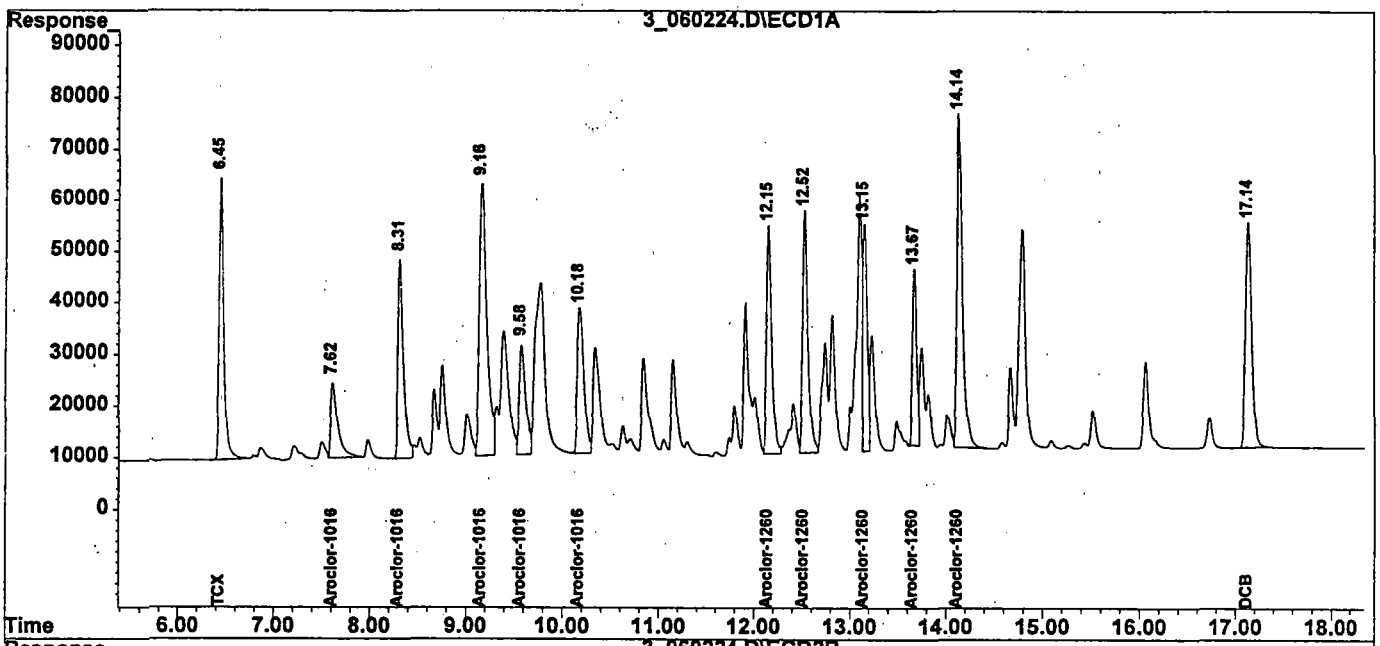
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

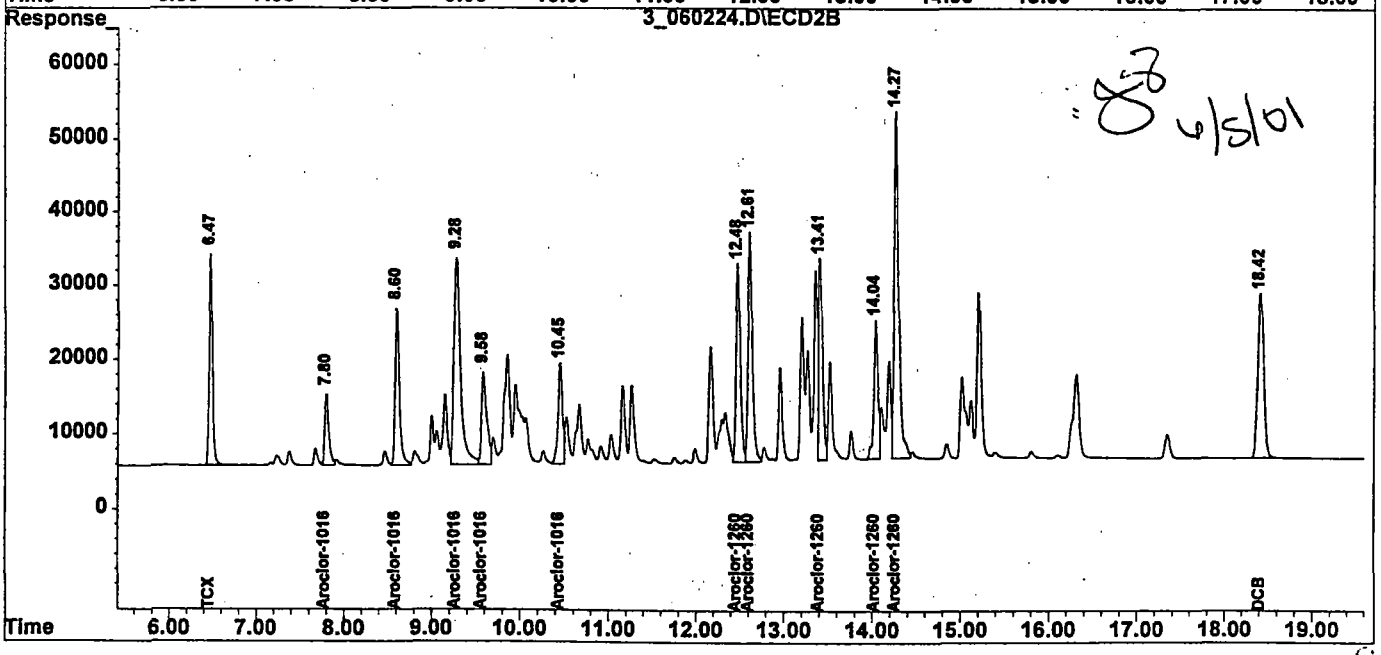
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060224.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060224.D\ECD2B.CH
Acq On : 02 Jun 2001 21:21 Operator: DDC
Sample : AR1660L5B Inst : HP_03
Misc : 5-443-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 10:02 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/5/01

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Continuing Calibration Report HP_03

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Sat Jun 09 10:31:41 2001
Response via : Initial Calibration

..tinuing Calibration File: 3_060653.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.585	28.394	E3	-20.4#	117
2	L1	Aroclor-1016	524.271	556.299		-6.1	102
3	L1	Aroclor-1016 {2}	1.121	1.409	E3	-25.7#	115
4	L1	Aroclor-1016 {3}	1.882	2.425	E3	-28.9#	125
5	L1	Aroclor-1016 {4}	676.685	699.551		-3.4	101
6	L1	Aroclor-1016 {5}	922.881	1044.617		-13.2	113
17	L7	Aroclor-1260	1.138	1.206	E3	-5.9	108
18	L7	Aroclor-1260 {2}	1.220	1.332	E3	-9.2	107
19	L7	Aroclor-1260 {3}	1.018	1.144	E3	-12.5	115
20	L7	Aroclor-1260 {4}	707.933	775.523		-9.5	111
21	L7	Aroclor-1260 {5}	1.657	1.983	E3	-19.7#	120
22	S	DCB	26.264	30.642	E3	-16.7#	120

Signal #2
Continuing Calibration File: 3_060653.D

		Compound	AvgRF	CCRF		%Dev	Area%
	S	TCX	9.299	10.273	E3	-10.5	109
2	L1	Aroclor-1016	194.800	236.134		-21.2#	112
3	L1	Aroclor-1016 {2}	514.469	607.050		-18.0#	116
4	L1	Aroclor-1016 {3}	0.997	1.186	E3	-19.0#	117
5	L1	Aroclor-1016 {4}	319.910	364.704		-14.0	112
6	L1	Aroclor-1016 {5}	294.080	327.360		-11.3	112
17	L7	Aroclor-1260	626.317	723.845		-15.6#	115
18	L7	Aroclor-1260 {2}	685.874	786.815		-14.7	114
19	L7	Aroclor-1260 {3}	571.960	692.517		-21.1#	123
20	L7	Aroclor-1260 {4}	371.153	437.663		-17.9#	119
21	L7	Aroclor-1260 {5}	1.050	1.262	E3	-20.2#	123
22	S	DCB	13.382	16.234	E3	-21.3#	123

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

3_060653.D XPCBF02.M Sat Jun 09 10:31:47 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060653.D\ECD1A.CH Vial: 47
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060653.D\ECD2B.CH
Acq On : 07 Jun 2001 15:45 Operator: DDC
Sample : AR1660L3BB Inst : HP_03
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 7 16:38 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.44	6.47	567880	205458	24.1	22.1
22)	S DCB	17.12	18.40	612849	324671	23.3	24.3
	Target Compounds:						
2)	L1 Aroclor-1016	7.62	7.80	222520	94454	424.4	484.9
3)	L1 Aroclor-1016 {2}	8.31	8.60	563791	242820	502.9	472.0
4)	L1 Aroclor-1016 {3}	9.19	9.30	970170	474399	515.5	475.9
5)	L1 Aroclor-1016 {4}	9.59	9.60	279820	145882	413.5	456.0
	L1 Aroclor-1016 {5}	10.19	10.46	417847	130944	452.8	445.3
	Sum Aroclor-1016			2454147	1088499	2309.2	2334.0
	Average Aroclor-1016					461.839	466.801
17)	L7 Aroclor-1260	12.15	12.48	482252	289538	423.7	462.3
18)	L7 Aroclor-1260 {2}	12.52	12.62	532982	314726	436.8	458.9
19)	L7 Aroclor-1260 {3}	13.14	13.41	457770	277007	449.9	484.3
20)	L7 Aroclor-1260 {4}	13.66	14.04	310209	175065	438.2	471.7
21)	L7 Aroclor-1260 {5}	14.13	14.27	793350	504992	478.7	480.9
	Sum Aroclor-1260			2576563	1561328	2227.2	2358.1
	Average Aroclor-1260					445.446	471.615

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3099
Signature [signature]
Date 06/12/01

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

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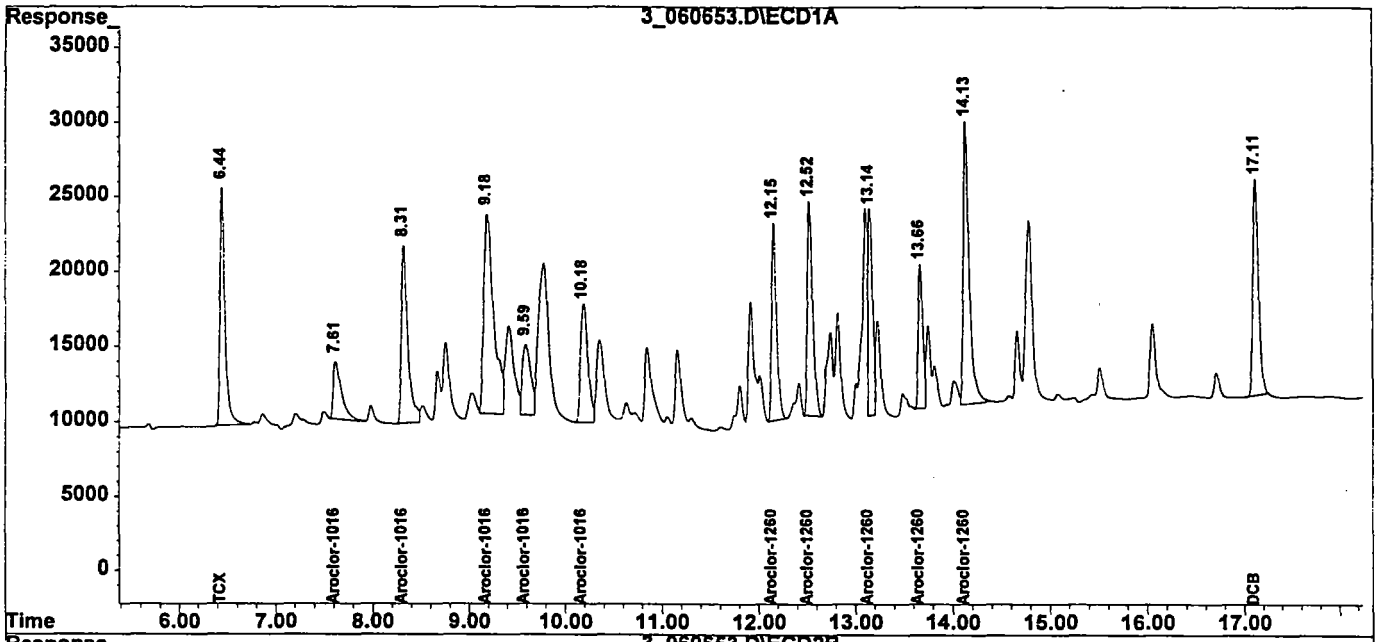
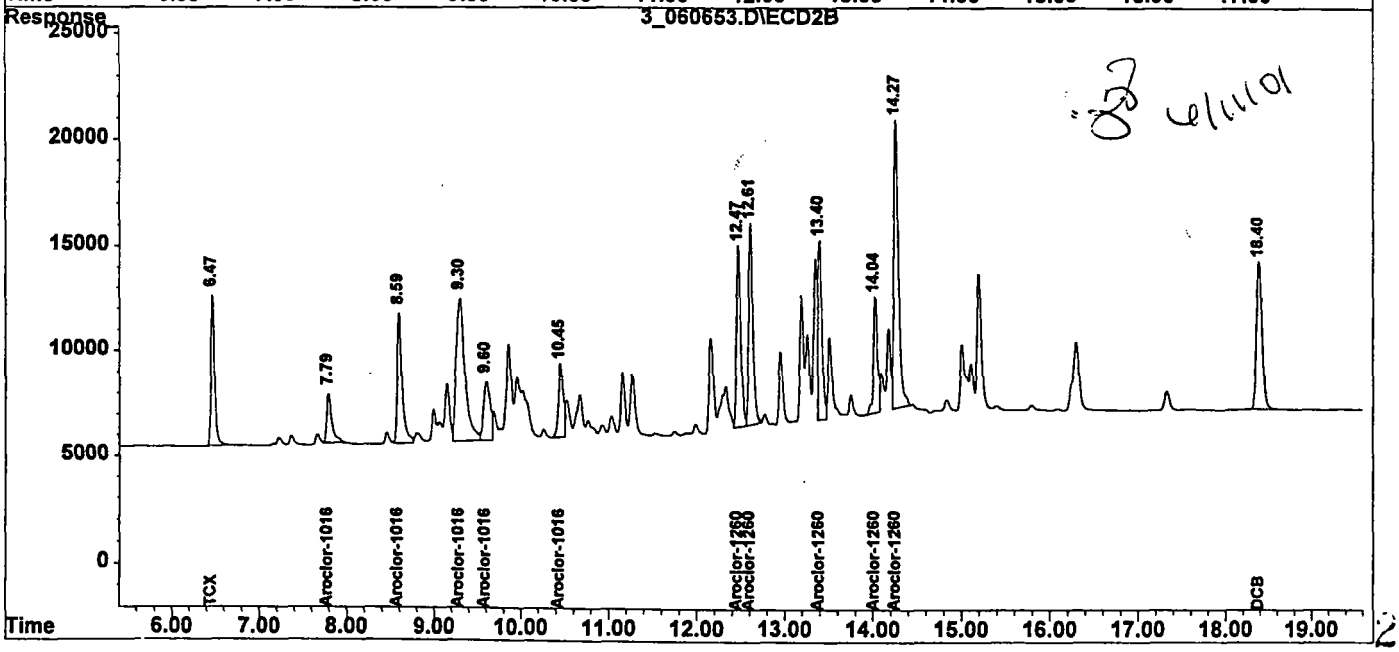
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060653.D\ECD1A.CH Vial: 47
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060653.D\ECD2B.CH
Acq On : 07 Jun 2001 15:45 Operator: DDC
Sample : AR1660L3BB Inst : HP_03
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 7 16:38 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





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Continuing Calibration Report HP_03

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Sat Jun 09 10:32:16 2001
Response via : Initial Calibration

.ıtinuing Calibration File: 3_060654.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.585	27.341	E3	-15.9#	113
2	L1	Aroclor-1016	524.271	536.468		-2.3	98
3	L1	Aroclor-1016 {2}	1.121	1.330	E3	-18.7#	109
4	L1	Aroclor-1016 {3}	1.882	2.382	E3	-26.6#	123
5	L1	Aroclor-1016 {4}	676.685	687.345		-1.6	100
6	L1	Aroclor-1016 {5}	922.881	1024.341		-11.0	111
17	L7	Aroclor-1260	1.138	1.175	E3	-3.2	105
18	L7	Aroclor-1260 {2}	1.220	1.307	E3	-7.1	105
19	L7	Aroclor-1260 {3}	1.018	1.158	E3	-13.8	116
20	L7	Aroclor-1260 {4}	707.933	765.198		-8.1	110
21	L7	Aroclor-1260 {5}	1.657	1.955	E3	-17.9#	119
22	S	DCB	26.264	29.845	E3	-13.6	116

Signal #2
Continuing Calibration File: 3_060654.D

		Compound	AvgRF	CCRF		%Dev	Area%
	S	TCX	9.299	9.908	E3	-6.6	105
2	L1	Aroclor-1016	194.800	225.199		-15.6#	107
3	L1	Aroclor-1016 {2}	514.469	585.793		-13.9	112
4	L1	Aroclor-1016 {3}	0.997	1.149	E3	-15.3#	113
5	L1	Aroclor-1016 {4}	319.910	353.812		-10.6	108
6	L1	Aroclor-1016 {5}	294.080	317.687		-8.0	108
17	L7	Aroclor-1260	626.317	703.928		-12.4	111
18	L7	Aroclor-1260 {2}	685.874	766.418		-11.7	111
19	L7	Aroclor-1260 {3}	571.960	674.632		-18.0#	120
20	L7	Aroclor-1260 {4}	371.153	425.350		-14.6	115
21	L7	Aroclor-1260 {5}	1.050	1.226	E3	-16.7#	119
22	S	DCB	13.382	15.730	E3	-17.5#	120

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

3_060654.D XPCBF02.M Sat Jun 09 10:32:23 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060654.D\ECD1A.CH Vial: 48
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060654.D\ECD2B.CH
Acq On : 07 Jun 2001 16:10 Operator: DDC
Sample : AR1660L3BC Inst : HP_03
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 7 16:37 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	546829	198158	23.2	21.3
22)	S DCB	17.12	18.40	596902	314605	22.7	23.5
	Target Compounds:						
2)	L1 Aroclor-1016	7.62	7.80	214587	90079	409.3	462.4
3)	L1 Aroclor-1016 {2}	8.31	8.60	532173	234317	474.7	455.5
4)	L1 Aroclor-1016 {3}	9.19	9.30	952954	459695	506.4	461.1
5)	L1 Aroclor-1016 {4}	9.59	9.60	274938	141525	406.3	442.4
	L1 Aroclor-1016 {5}	10.19	10.46	409736	127075	444.0	432.1
	Sum Aroclor-1016			2384388	1052691	2240.7	2253.5
	Average Aroclor-1016					448.142	450.699
17)	L7 Aroclor-1260	12.15	12.48	469905	281571	412.8	449.6
18)	L7 Aroclor-1260 {2}	12.53	12.62	522624	306567	428.3	447.0
19)	L7 Aroclor-1260 {3}	13.14	13.41	463041	269853	455.1	471.8
20)	L7 Aroclor-1260 {4}	13.66	14.04	306079	170140	432.4	458.4
21)	L7 Aroclor-1260 {5}	14.13	14.27	781844	490214	471.8	466.9
	Sum Aroclor-1260			2543493	1518345	2200.3	2293.6
	Average Aroclor-1260					440.059	458.722

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3099
Signature Amelia M. Williams
Date 06/12/01

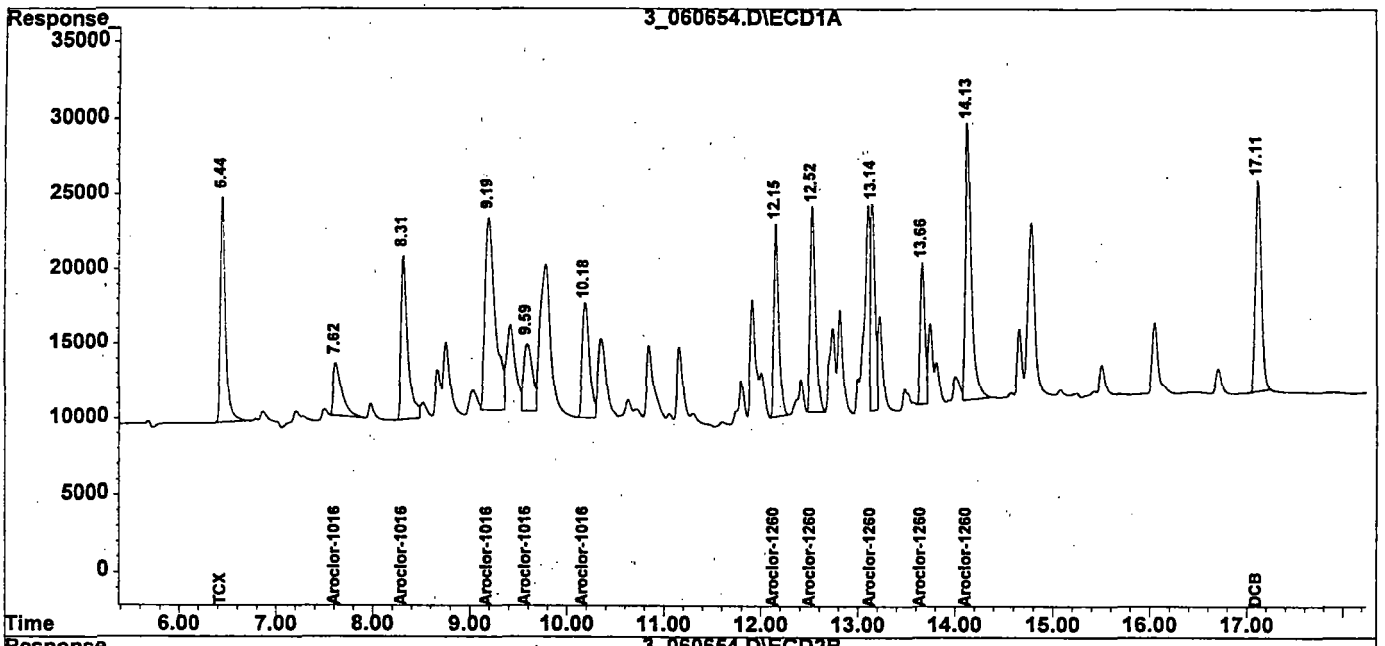
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

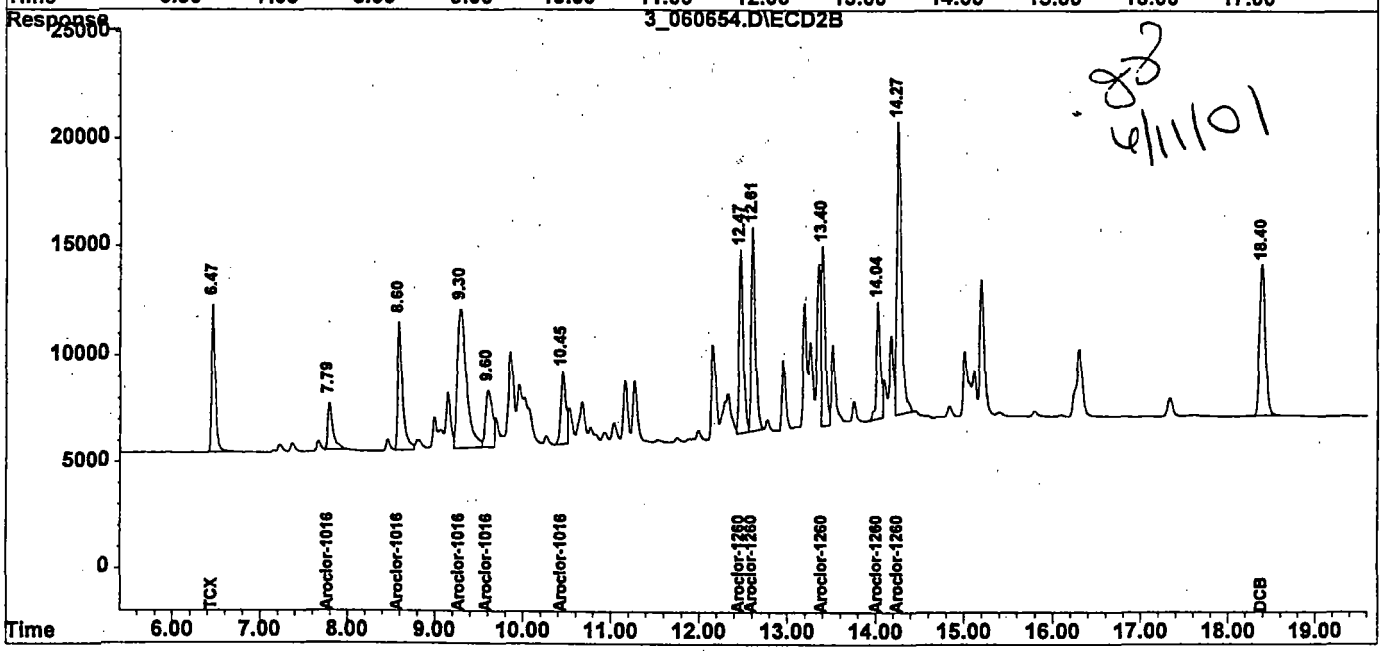
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060654.D\ECD1A.CH Vial: 48
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060654.D\ECD2B.CH
Acq On : 07 Jun 2001 16:10 Operator: DDC
Sample : AR1660L3BC Inst : HP_03
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 7 16:37 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





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6/11/01

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Continuing Calibration Report HP_03

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Fri Jun 08 08:15:03 2001
Response via : Initial Calibration

Continuing Calibration File: 3_060676.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.585	25.933	E3	-10.0	107
2	L1	Aroclor-1016	524.271	505.338		3.6	93
3	L1	Aroclor-1016 {2}	1.121	1.238	E3	-10.5	101
4	L1	Aroclor-1016 {3}	1.882	2.148	E3	-14.1	111
5	L1	Aroclor-1016 {4}	676.685	616.008		9.0	89
6	L1	Aroclor-1016 {5}	922.881	889.991		3.6	96
17	L7	Aroclor-1260	1.138	1.065	E3	6.4	95
18	L7	Aroclor-1260 {2}	1.220	1.122	E3	8.0	90
19	L7	Aroclor-1260 {3}	1.018	1.046	E3	-2.8	105
20	L7	Aroclor-1260 {4}	707.933	661.998		6.5	95
21	L7	Aroclor-1260 {5}	1.657	1.733	E3	-4.6	105
22	S	DCB	26.264	26.911	E3	-2.5	105

Signal #2
Continuing Calibration File: 3_060676.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	9.299	9.615	E3	-3.4	102
2	L1	Aroclor-1016	194.800	214.921		-10.3	102
3	L1	Aroclor-1016 {2}	514.469	558.642		-8.6	106
4	L1	Aroclor-1016 {3}	0.997	1.087	E3	-9.0	107
5	L1	Aroclor-1016 {4}	319.910	320.257		-0.1	98
6	L1	Aroclor-1016 {5}	294.080	286.118		2.7	97
17	L7	Aroclor-1260	626.317	637.515		-1.8	101
18	L7	Aroclor-1260 {2}	685.874	696.377		-1.5	101
19	L7	Aroclor-1260 {3}	571.960	626.179		-9.5	111
20	L7	Aroclor-1260 {4}	371.153	384.128		-3.5	104
21	L7	Aroclor-1260 {5}	1.050	1.117	E3	-6.4	109
22	S	DCB	13.382	14.431	E3	-7.8	110

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

3_060676.D XPCBF02.M Fri Jun 08 08:15:10 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060676.D\ECD1A.CH Vial: 70
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060676.D\ECD2B.CH
Acq On : 08 Jun 2001 1:14 Operator: DDC
Sample : AR1660L3BF Inst : HP_03
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 8:15 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	518667	192291	22.0	20.7
22)	S DCB	17.13	18.42	538219	288612	20.5	21.6
	Target Compounds:						
2)	L1 Aroclor-1016	7.62	7.80	202135	85968	385.6	441.3
3)	L1 Aroclor-1016 {2}	8.32	8.60	495355	223457	441.9	434.3
4)	L1 Aroclor-1016 {3}	9.20f	9.30	859115	434632	456.5	436.0
5	L1 Aroclor-1016 {4}	9.59	9.61	246403	128103	364.1	400.4
6)	L1 Aroclor-1016 {5}	10.19	10.46	355997	114447	385.7	389.2
	Sum Aroclor-1016			2159005	986608	2033.8	2101.2
	Average Aroclor-1016					406.770	420.249
17)	L7 Aroclor-1260	12.16	12.48	426051	255006	374.3	407.2
18)	L7 Aroclor-1260 {2}	12.53	12.62	448922	278551	367.9	406.1
19)	L7 Aroclor-1260 {3}	13.15	13.41	418313	250472	411.1	437.9
20)	L7 Aroclor-1260 {4}	13.67	14.05	264799	153651	374.0	414.0
21)	L7 Aroclor-1260 {5}	14.14	14.28	693291	446685	418.3	425.4
	Sum Aroclor-1260			2251375	1384365	1945.7	2090.6
	Average Aroclor-1260					389.134	418.116

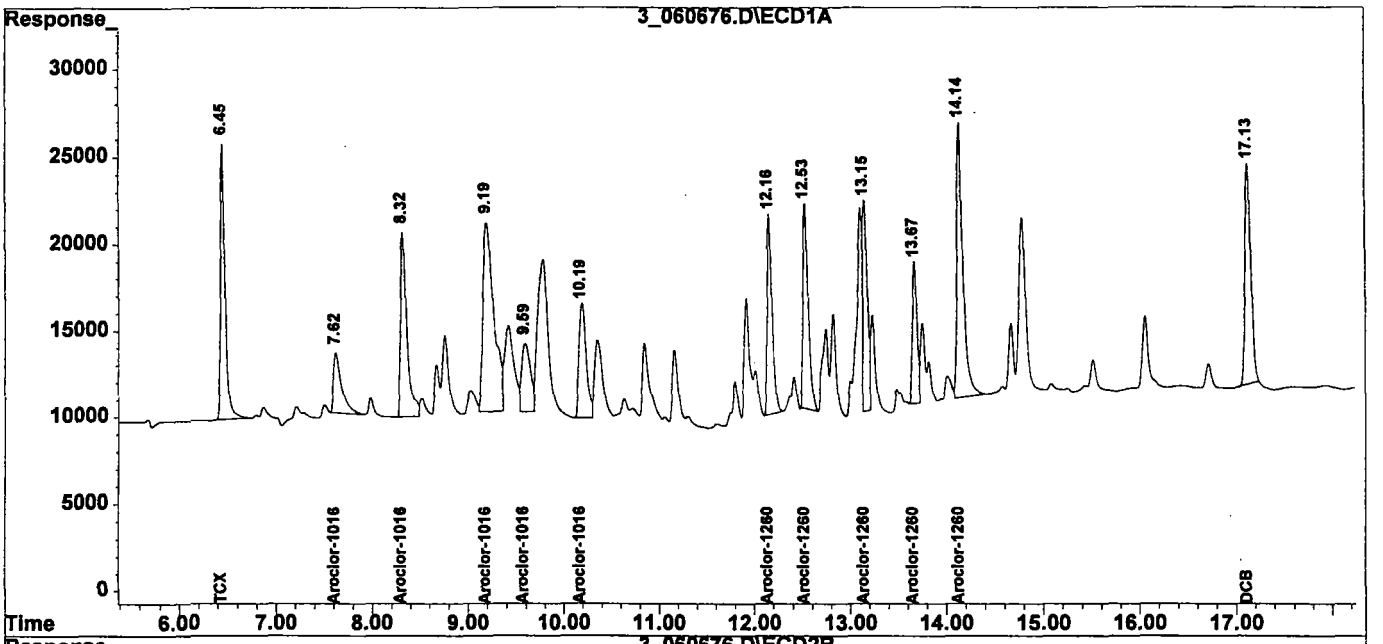
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

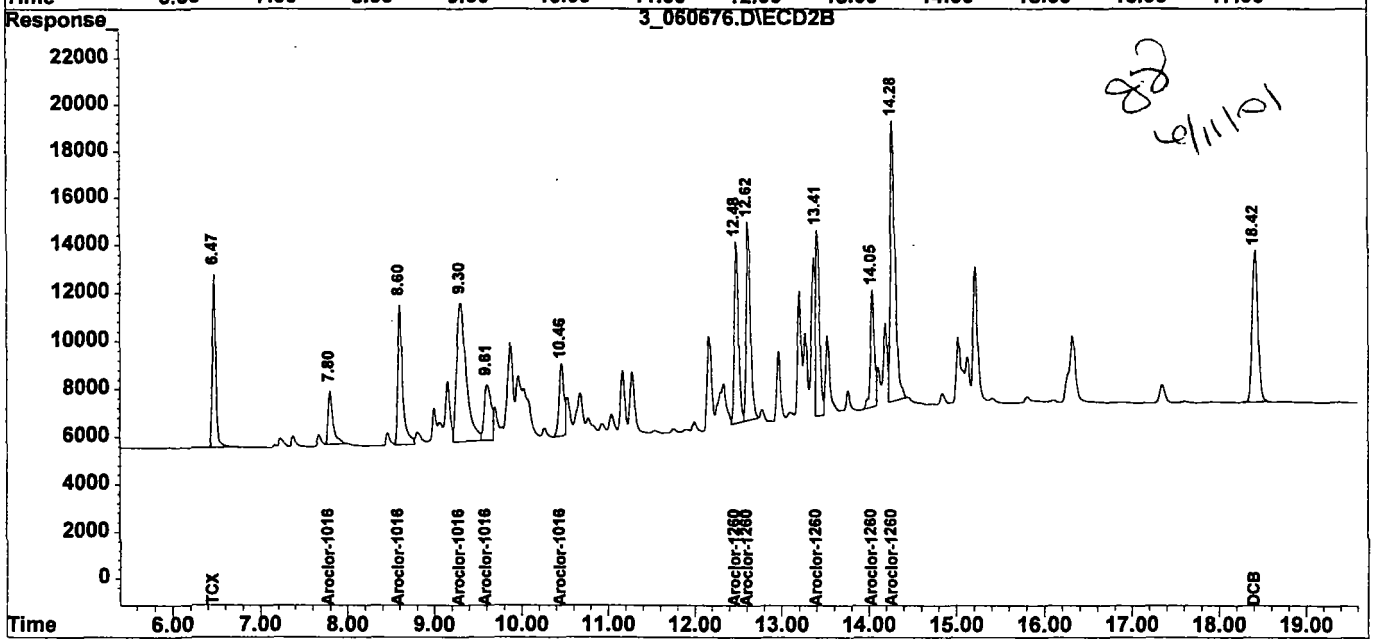
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060676.D\ECD1A.CH Vial: 70
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060676.D\ECD2B.CH
Acq On : 08 Jun 2001 1:14 Operator: DDC
Sample : AR1660L3BF Inst : HP_03
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 8:15 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





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6/11/01

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Continuing Calibration Report HP_03

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Fri Jun 08 08:22:01 2001
Response via : Initial Calibration

Continuing Calibration File: 3_060690.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.585	26.337	E3	-11.7	109
2	L1	Aroclor-1016	524.271	511.198		2.5	94
3	L1	Aroclor-1016 {2}	1.121	1.284	E3	-14.5	105
4	L1	Aroclor-1016 {3}	1.882	2.240	E3	-19.1#	116
5	L1	Aroclor-1016 {4}	676.685	644.210		4.8	93
6	L1	Aroclor-1016 {5}	922.881	912.313		1.1	99
17	L7	Aroclor-1260	1.138	1.041	E3	8.5	93
18	L7	Aroclor-1260 {2}	1.220	1.136	E3	6.9	91
19	L7	Aroclor-1260 {3}	1.018	1.061	E3	-4.3	106
20	L7	Aroclor-1260 {4}	707.933	671.763		5.1	96
21	L7	Aroclor-1260 {5}	1.657	1.721	E3	-3.8	104
22	S	DCB	26.264	26.106	E3	0.6	102

Signal #2
Continuing Calibration File: 3_060690.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	9.299	9.652	E3	-3.8	102
2	L1	Aroclor-1016	194.800	214.172		-9.9	102
3	L1	Aroclor-1016 {2}	514.469	561.194		-9.1	107
4	L1	Aroclor-1016 {3}	0.997	1.092	E3	-9.5	108
5	L1	Aroclor-1016 {4}	319.910	317.515		0.7	97
6	L1	Aroclor-1016 {5}	294.080	282.027		4.1	96
17	L7	Aroclor-1260	626.317	630.001		-0.6	100
18	L7	Aroclor-1260 {2}	685.874	678.902		1.0	99
19	L7	Aroclor-1260 {3}	571.960	641.585		-12.2	114
20	L7	Aroclor-1260 {4}	371.153	377.557		-1.7	103
21	L7	Aroclor-1260 {5}	1.050	1.095	E3	-4.2	107
22	S	DCB	13.382	14.353	E3	-7.3	109

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

3_060690.D XPCBF02.M Fri Jun 08 08:22:06 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060690.D\ECD1A.CH Vial: 84
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060690.D\ECD2B.CH
Acq On : 08 Jun 2001 7:00 Operator: DDC
Sample : AR1660L3BH Inst : HP_03
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 8:21 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.48	526749	193037	22.3	20.8
22)	S DCB	17.13	18.42	522114	287058	19.9	21.5
	Target Compounds:						
2)	L1 Aroclor-1016	7.62	7.80	204479	85669	390.0	439.8
3)	L1 Aroclor-1016 {2}	8.32	8.60	513630	224477	458.2	436.3
4)	L1 Aroclor-1016 {3}	9.20f	9.31	896185	436607	476.2	438.0
5	L1 Aroclor-1016 {4}	9.59	9.61f	257684	127006	380.8	397.0
6,	L1 Aroclor-1016 {5}	10.19	10.46	364925	112811	395.4	383.6
	Sum Aroclor-1016			2236903	986570	2100.7	2094.7
	Average Aroclor-1016					420.133	418.936
17)	L7 Aroclor-1260	12.16	12.48	416560	252001	366.0	402.4
18)	L7 Aroclor-1260 {2}	12.53	12.62	454529	271561	372.5	395.9
19)	L7 Aroclor-1260 {3}	13.15	13.42	424305	256634	417.0	448.7
20)	L7 Aroclor-1260 {4}	13.67	14.05	268705	151023	379.6	406.9
21)	L7 Aroclor-1260 {5}	14.14	14.28	688362	437825	415.3	417.0
	Sum Aroclor-1260			2252462	1369044	1950.4	2070.8
	Average Aroclor-1260					390.072	414.169

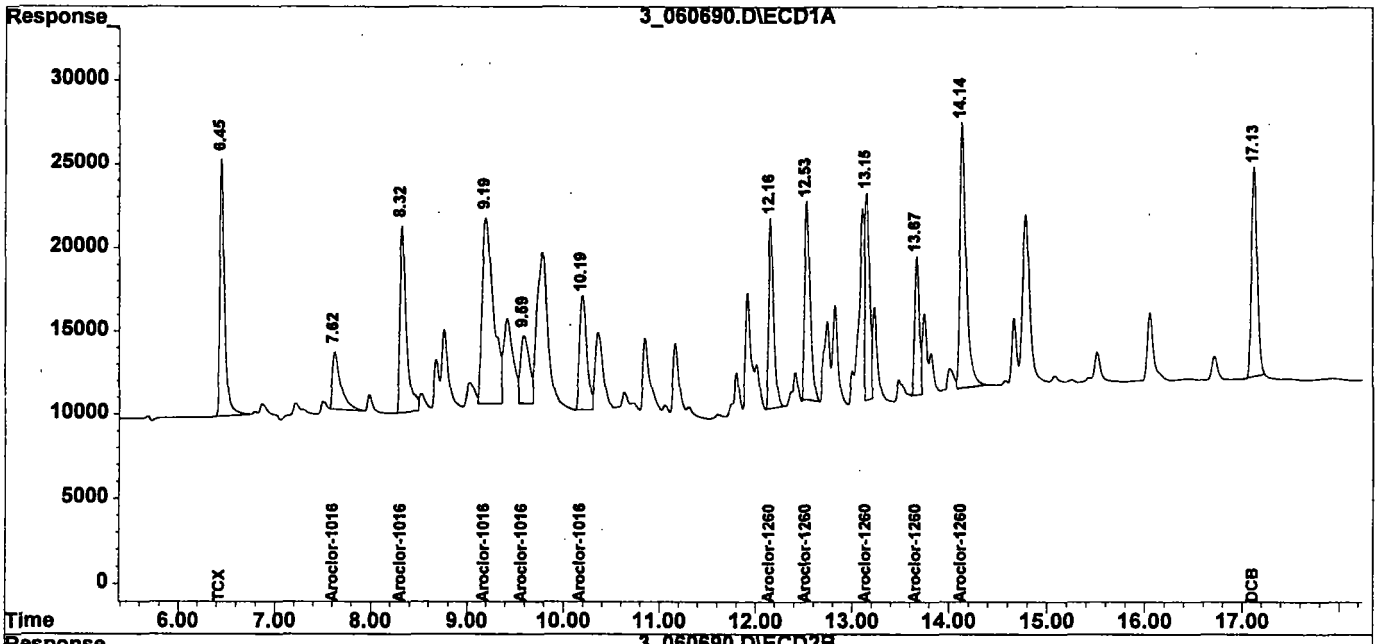
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

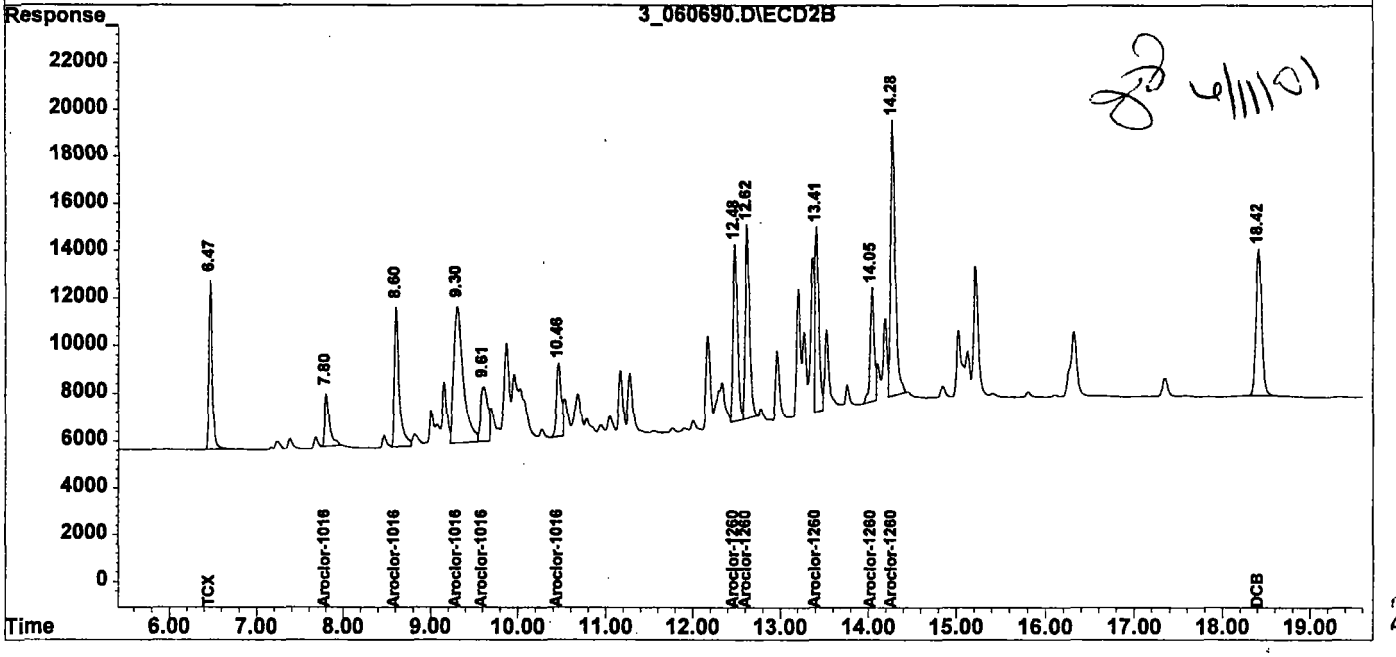
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060690.D\ECD1A.CH Vial: 84
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060690.D\ECD2B.CH
Acq On : 08 Jun 2001 7:00 Operator: DDC
Sample : AR1660L3BH Inst : HP_03
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 8:21 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





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Continuing Calibration Report HP_03

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Fri Jun 08 18:40:25 2001
Response via : Initial Calibration

Continuing Calibration File: 3_060711.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.585	26.216	E3	-11.2	108
2	L1	Aroclor-1016	524.271	497.598		5.1	91
3	L1	Aroclor-1016 {2}	1.121	1.314	E3	-17.2#	108
4	L1	Aroclor-1016 {3}	1.882	2.218	E3	-17.9#	115
5	L1	Aroclor-1016 {4}	676.685	661.759		2.2	96
6	L1	Aroclor-1016 {5}	922.881	950.911		-3.0	103
17	L7	Aroclor-1260	1.138	1.117	E3	1.9	100
18	L7	Aroclor-1260 {2}	1.220	1.281	E3	-5.0	103
19	L7	Aroclor-1260 {3}	1.018	1.169	E3	-14.9	117
20	L7	Aroclor-1260 {4}	707.933	745.093		-5.2	107
21	L7	Aroclor-1260 {5}	1.657	1.823	E3	-10.0	111
22	S	DCB	26.264	28.010	E3	-6.6	109

Signal #2
Continuing Calibration File: 3_060711.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	9.299	9.313	E3	-0.2	99
2	L1	Aroclor-1016	194.800	204.831		-5.1	97
3	L1	Aroclor-1016 {2}	514.469	548.568		-6.6	104
4	L1	Aroclor-1016 {3}	0.997	1.076	E3	-7.9	106
5	L1	Aroclor-1016 {4}	319.910	305.575		4.5	94
6	L1	Aroclor-1016 {5}	294.080	277.968		5.5	95
17	L7	Aroclor-1260	626.317	611.624		2.3	97
18	L7	Aroclor-1260 {2}	685.874	696.937		-1.6	101
19	L7	Aroclor-1260 {3}	571.960	673.706		-17.8#	120
20	L7	Aroclor-1260 {4}	371.153	402.118		-8.3	109
21	L7	Aroclor-1260 {5}	1.050	1.195	E3	-13.8	116
22	S	DCB	13.382	14.427	E3	-7.8	110

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

3_060711.D XPCBF02.M Fri Jun 08 18:40:31 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060711.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060711.D\ECD2B.CH
Acq On : 08 Jun 2001 18:12 Operator: DDC
Sample : AR1660L3BL Inst : HP_03
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 18:38 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	524313	186258	22.2	20.0
22)	S DCB	17.12	18.40	560206	288541	21.3	21.6
	Target Compounds:						
2)	L1 Aroclor-1016	7.62	7.80	199039	81932	379.6	420.6
3)	L1 Aroclor-1016 {2}	8.32	8.60	525654	219427	468.9	426.5
4)	L1 Aroclor-1016 {3}	9.20f	9.30	887122	430355	471.4	431.7
5)	L1 Aroclor-1016 {4}	9.59	9.61	264704	122230	391.2	382.1
6)	L1 Aroclor-1016 {5}	10.19	10.46	380364	111187	412.1	378.1
	Sum Aroclor-1016			2256883	965131	2123.3	2039.0
	Average Aroclor-1016					424.660	407.792
17)	L7 Aroclor-1260	12.16	12.48	446726	244649	392.5	390.6
18)	L7 Aroclor-1260 {2}	12.53	12.62	512494	278775	420.0	406.5
19)	L7 Aroclor-1260 {3}	13.15	13.41	467584	269482	459.5m	471.2
20)	L7 Aroclor-1260 {4}	13.67	14.04	298037	160847	421.0	433.4
21)	L7 Aroclor-1260 {5}	14.14	14.27	729386	478046	440.1	455.3
	Sum Aroclor-1260			2454228	1431800	2133.1	2156.9
	Average Aroclor-1260					426.617	431.373

DDC 6/8/01

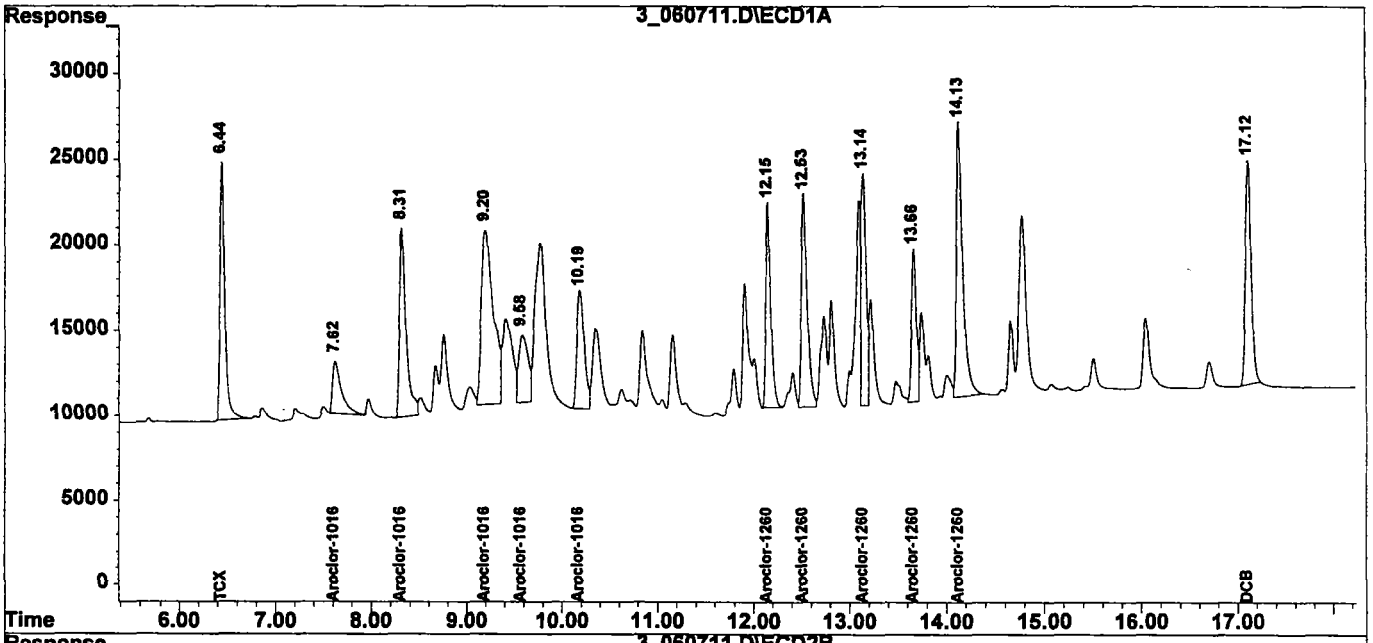
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

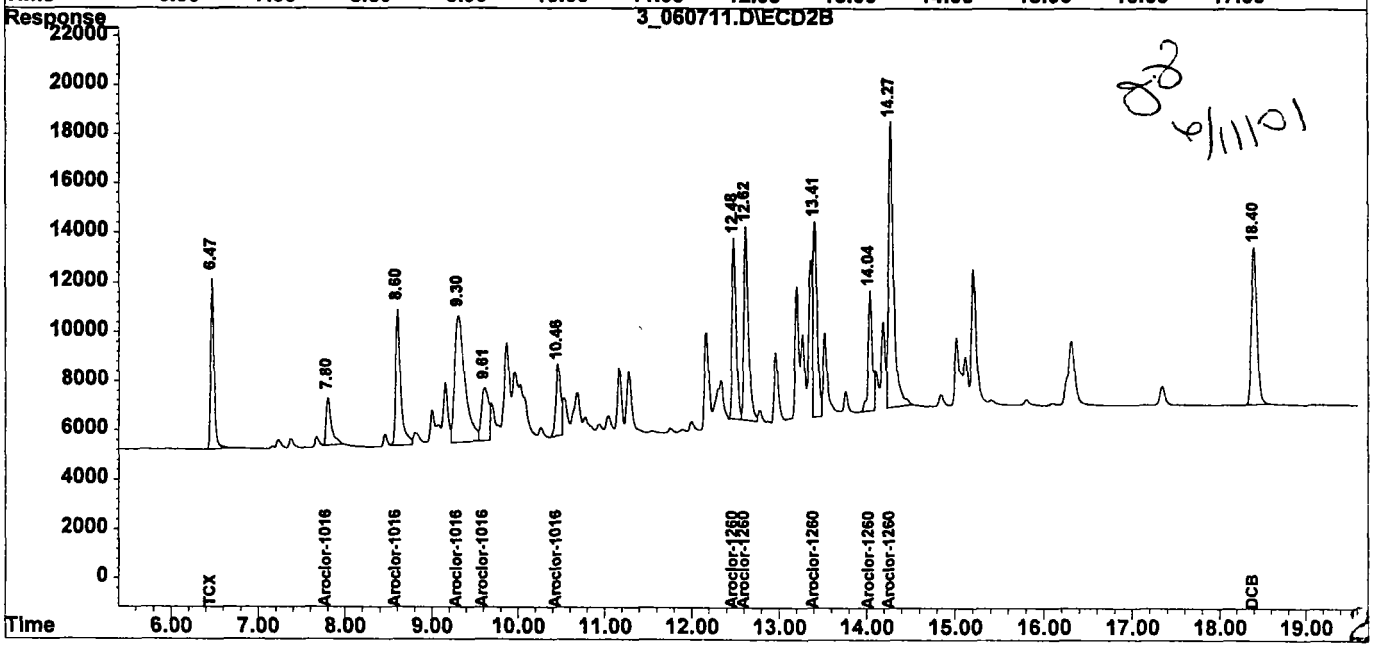
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060711.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060711.D\ECD2B.CH
Acq On : 08 Jun 2001 18:12 Operator: DDC
Sample : AR1660L3BL Inst : HP_03
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 18:38 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





8 6/11/01

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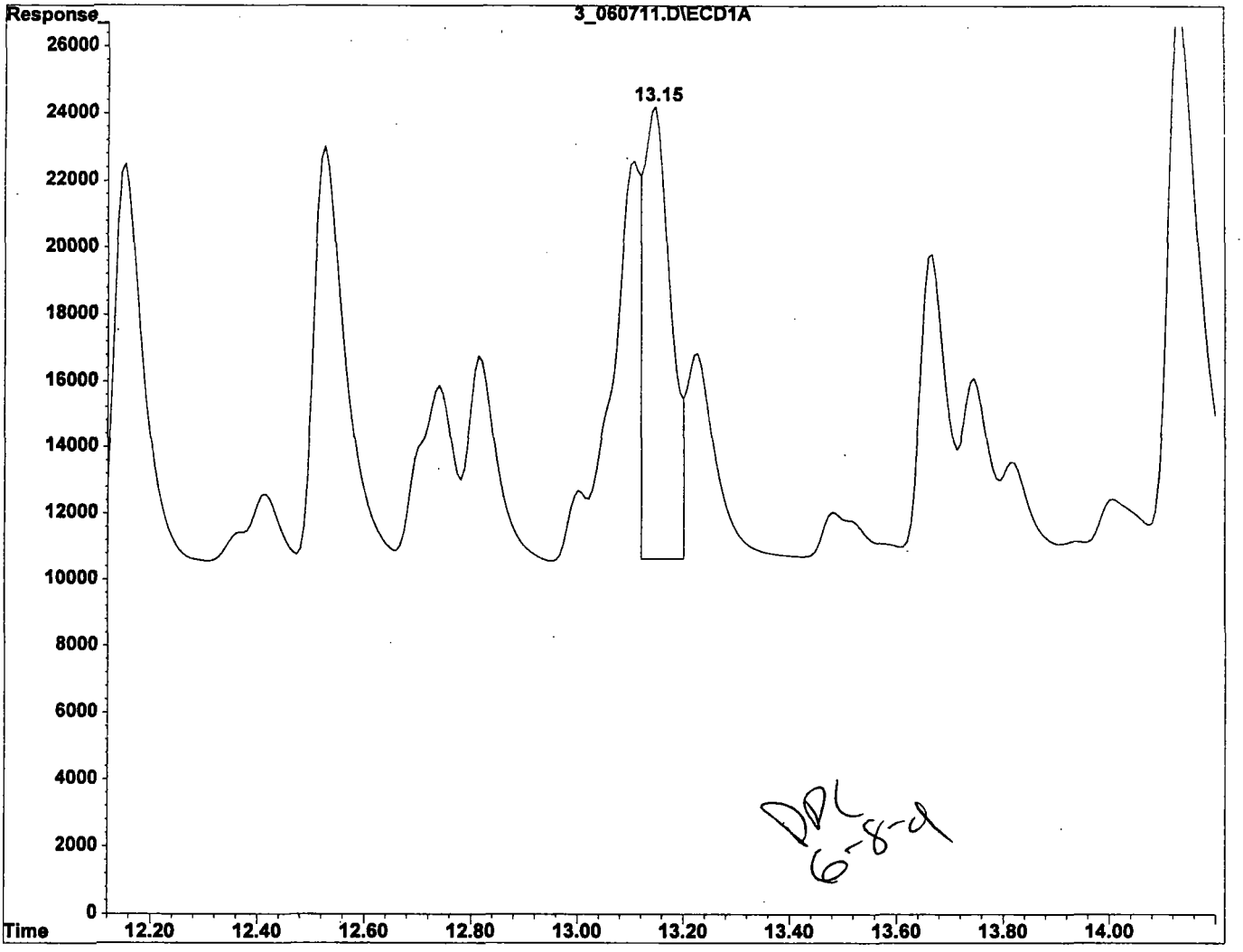
MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\06_06_01\3_060711.D
Date Acquired: 08 Jun 2001 18:12
Inst: HP_03 Operator ID: DDC
Name: AR1660L3BL
Misc: 5-445-6
Method: F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title: PCB/TOXAPHENE
Quant Time: Jun 8 18:38 2001 Quant Results File: XPCBF02.RES



Aroclor-1260 {3} 13.15min area: 467584 m

Integration Time Range: 13.12 - 13.20

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060906.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060906.D\ECD2B.CH
Acq On : 09 Jun 2001 14:33 Operator: DDC
Sample : RESC3C Inst : HP_03
Misc : 5-441-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:16 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	447447	169696	17.4	17.3
22)	S DCB	17.12	18.41	418318	217683	18.0	18.4

Target Compounds:

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3099
Signature Arnelda M Willin
Date 06/12/01

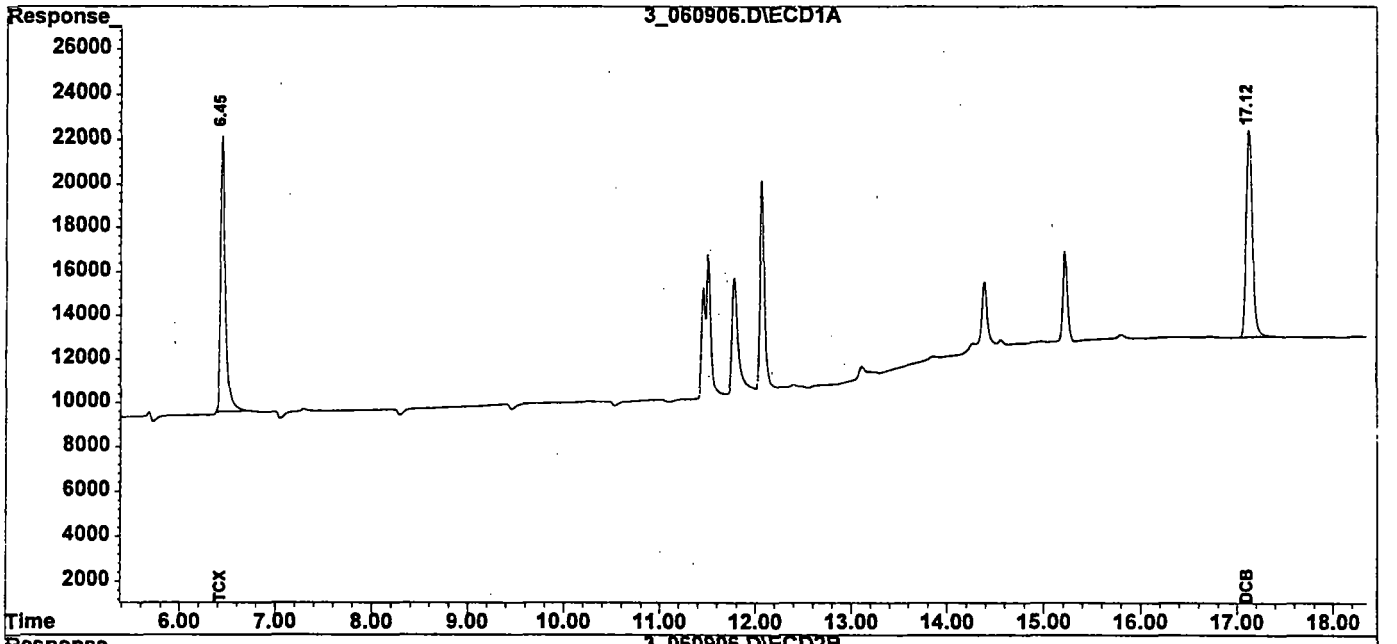
.)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

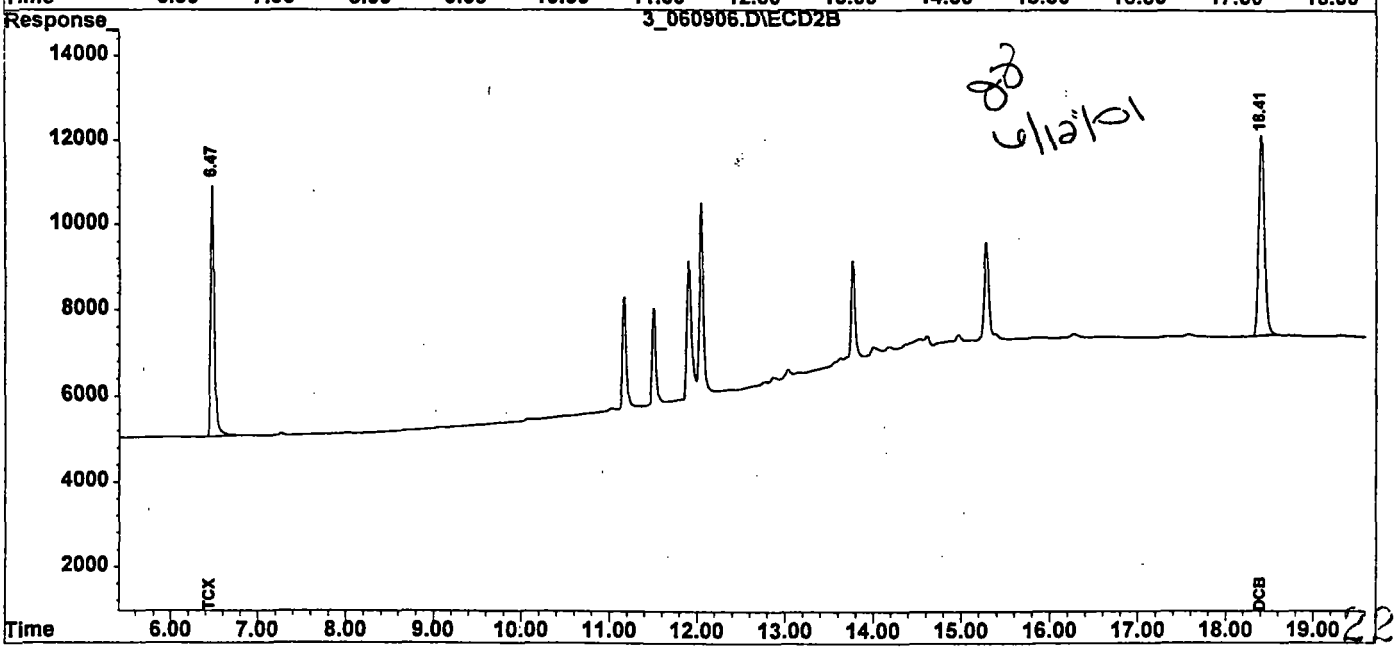
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060906.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060906.D\ECD2B.CH
Acq On : 09 Jun 2001 14:33 Operator: DDC
Sample : RESC3C Inst : HP_03
Misc : 5-441-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:16 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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\06_09_01\3_060907.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060907.D\ECD2B.CH
Acq On : 09 Jun 2001 14:58 Operator: DDC
Sample : AR1221L33C Inst : HP_03
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:16 2001 Quant Results File: XPCBF09.RES
Multi Time: Jun 10 9:17 2001 Quant Results File: xspcbf09.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001

Multi-Component Method : f:\hpchem\hp\3\data\06_09_01\xspcbf09.m
Title : PCB/TOXAPHENE
Last Update : Thu May 24 12:57:13 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	501946	176553	19.5	18.0	
22)	S DCB	17.12	18.41	437876	225834	18.8	19.1	
	Target Compounds:							
	Multi-Component Compounds:							
	L2 Aroclor-1221	7.20	7.67	166470	30500	571.1	375.7	#
3)	L2 Aroclor-1221 {2}	7.50	7.80	77771	105723	504.8	391.1	
4)	L2 Aroclor-1221 {3}	7.62	7.91	405793	41731	529.5	647.5	
	Sum Aroclor-1221			650034	177954	1605.4	1414.4	
	Average Aroclor-1221					535.126	471.459	

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3099
Signature Arnelde M. Williams
Date 06/12/01

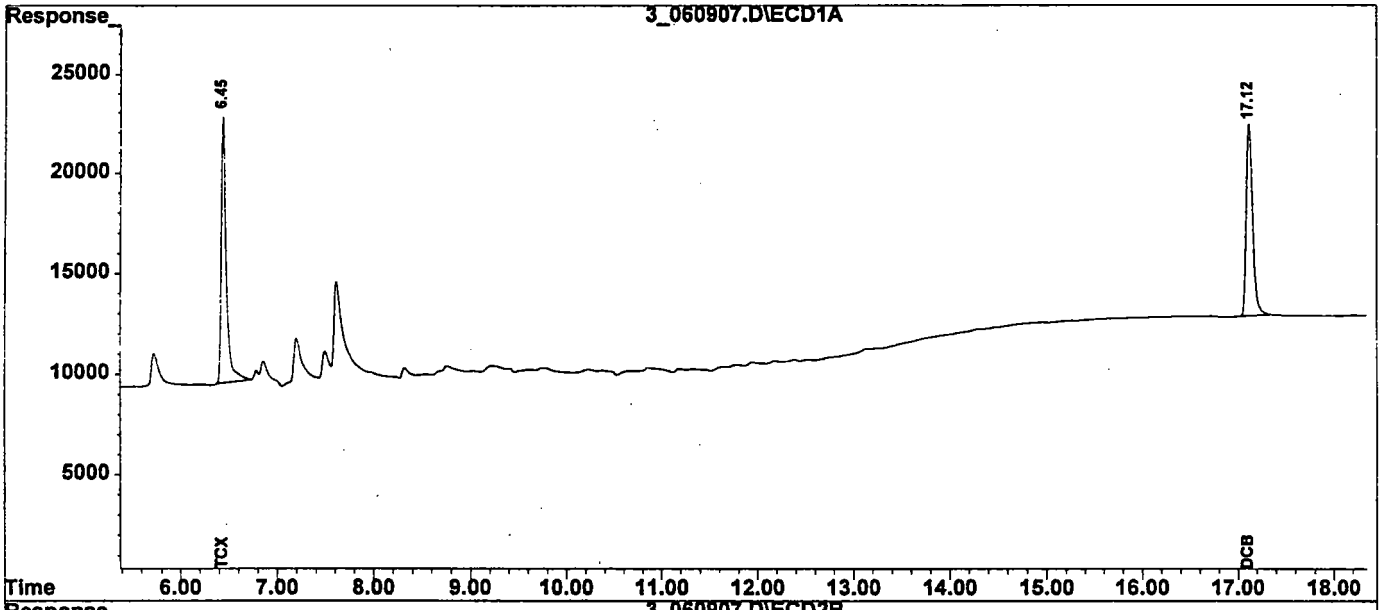
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

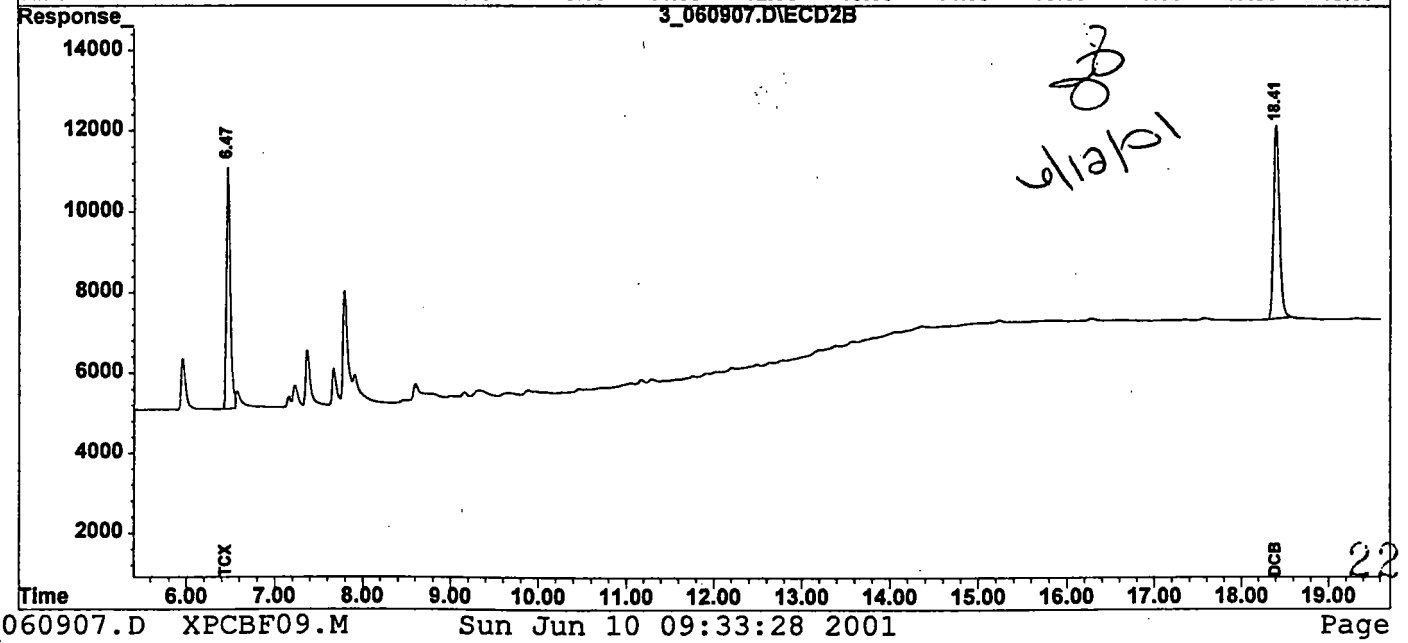
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060907.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060907.D\ECD2B.CH
Acq On : 09 Jun 2001 14:58 Operator: DDC
Sample : AR1221L33C Inst : HP_03
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
~~Quant Time: Jun 10 9:16 2001 Quant Results File: XPCBF09.RES~~
Quant Time: Jun 10 9:17 2001 Quant Results File: xspcbf09.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001

Multi-Component Method : f:\hpchem\hp\3\data\06_09_01\xspcbf09.m
Title : PCB/TOXAPHENE
Last Update : Thu May 24 12:57:13 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

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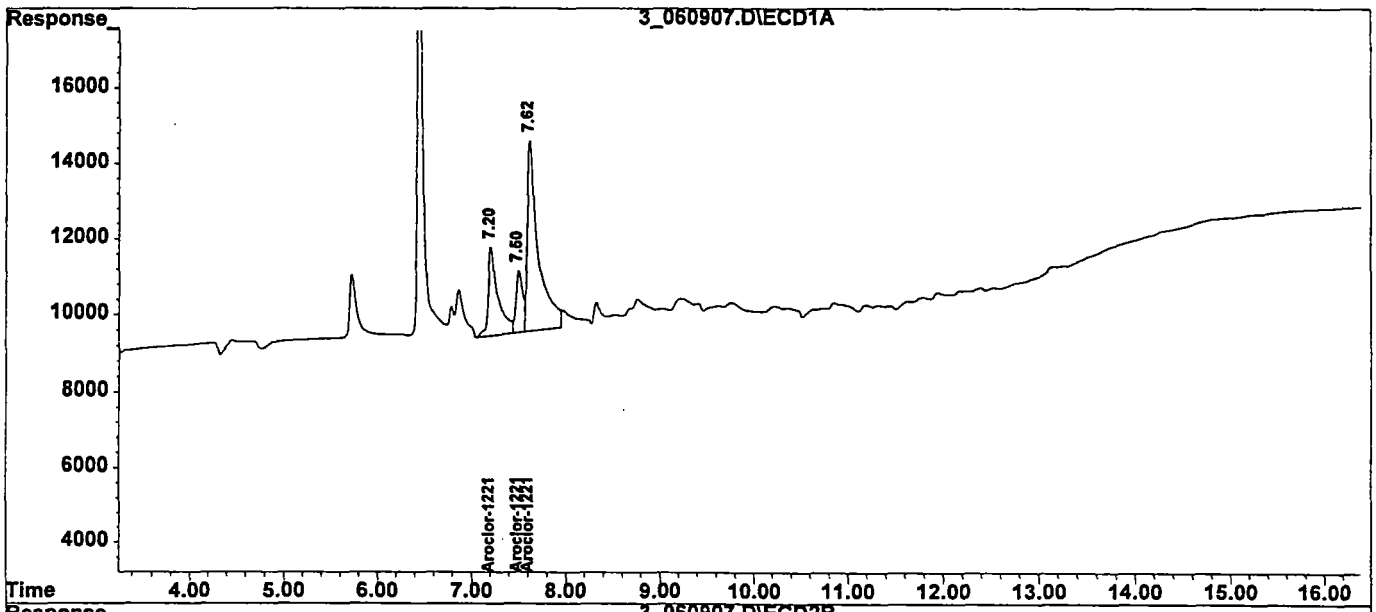
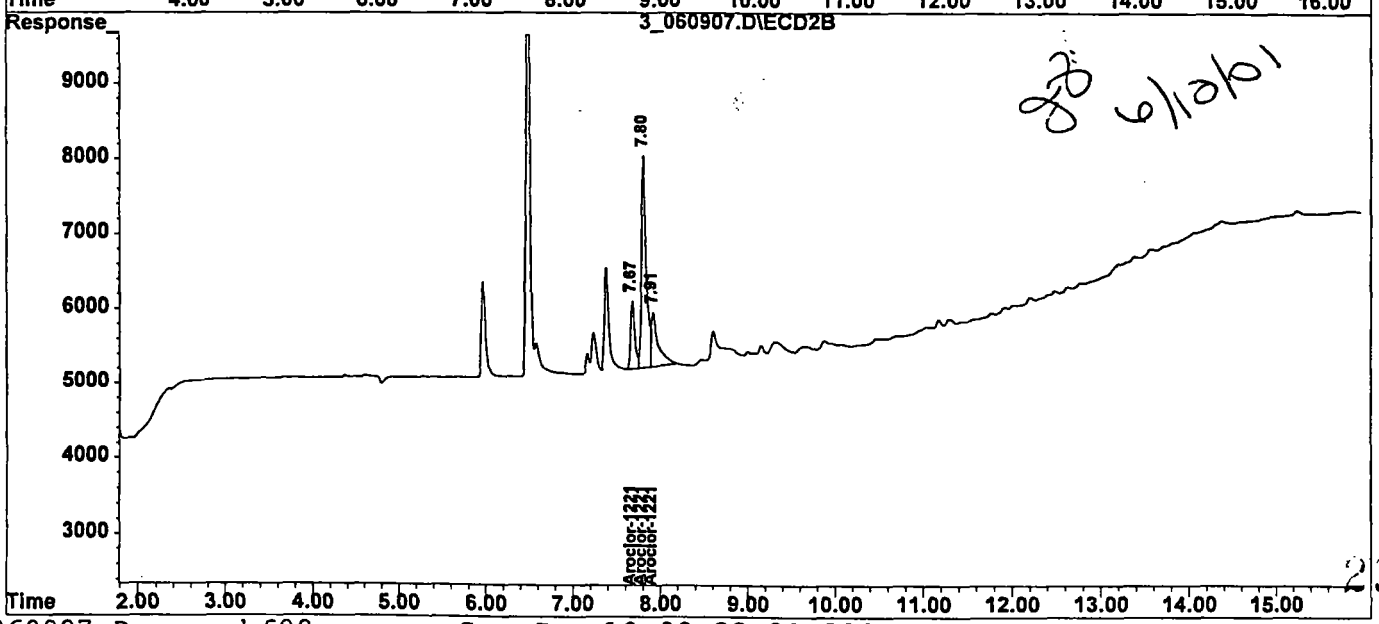
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060907.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060907.D\ECD2B.CH
Acq On : 09 Jun 2001 14:58 Operator: DDC
Sample : AR1221L33C Inst : HP_03
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
~~Quant Time: Jun 10 9:17 2001 Quant Results File: xspcbf09.RES~~
Quant Time: Jun 10 9:17 2001 Quant Results File: xspcbf09.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001

Multi-Component Method : f:\hpchem\hp\3\data\06_09_01\xspcbf09.m
Title : PCB/TOXAPHENE
Last Update : Thu May 24 12:57:13 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060908.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060908.D\ECD2B.CH
Acq On : 09 Jun 2001 15:23 Operator: DDC
Sample : AR1232L33C Inst : HP_03
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:19 2001 Quant Results File: XPCBF09.RES
Multi Time: Jun 10 9:19 2001 Quant Results File: xspcbf09.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001

Multi-Component Method : f:\hpchem\hp\3\data\06_09_01\xspcbf09.m
Title : PCB/TOXAPHENE
Last Update : Thu May 24 12:57:13 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.44	6.47	500009	178213	19.5	18.1
22)	S DCB	17.12	18.41	431824	221884	18.5	18.7
	Target Compounds:						
	Multi-Component Compounds:						
	L3 Aroclor-1232	7.50	7.37	63728	36630	466.0	413.2
6)	L3 Aroclor-1232 {2}	8.75	7.67	127775	25115	440.3	395.4
7)	L3 Aroclor-1232 {3}	9.42	9.15	168764	42101	404.8	416.4
8)	L3 Aroclor-1232 {4}	10.36	9.87	118155	64689	387.2	345.2
	Sum Aroclor-1232			478422	168536	1698.3	1570.2
	Average Aroclor-1232					424.568	392.560

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3089
Signature [signature]
Date 06/12/01

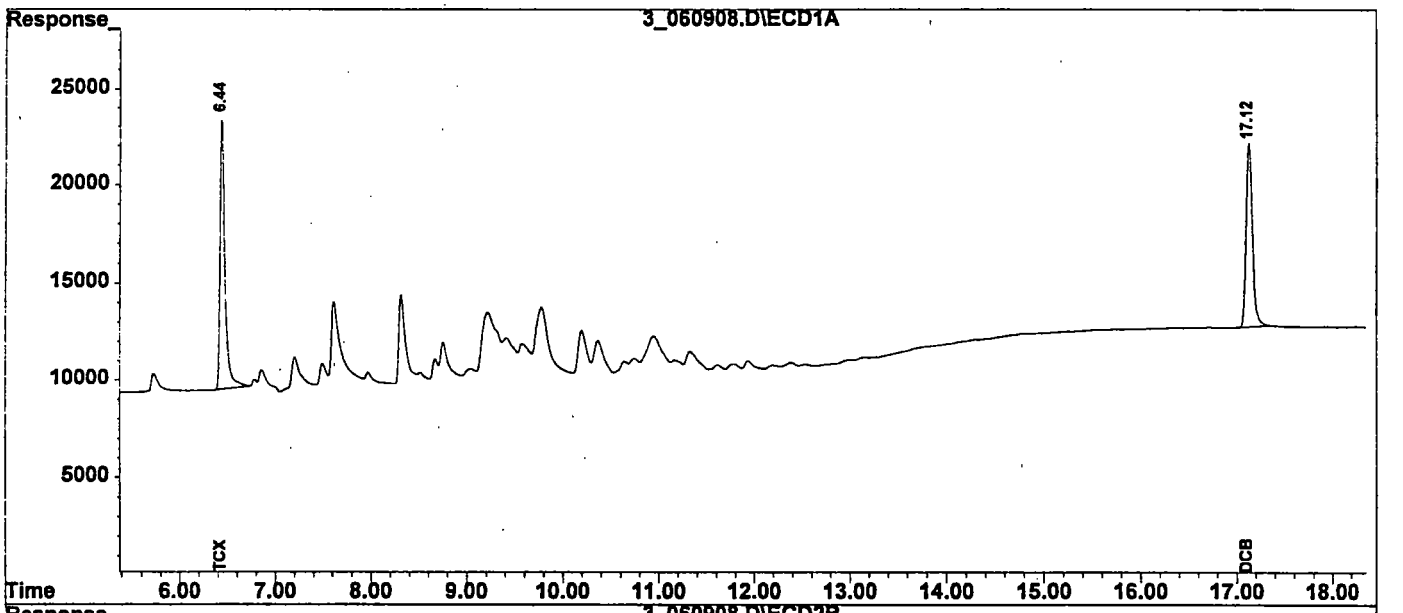
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

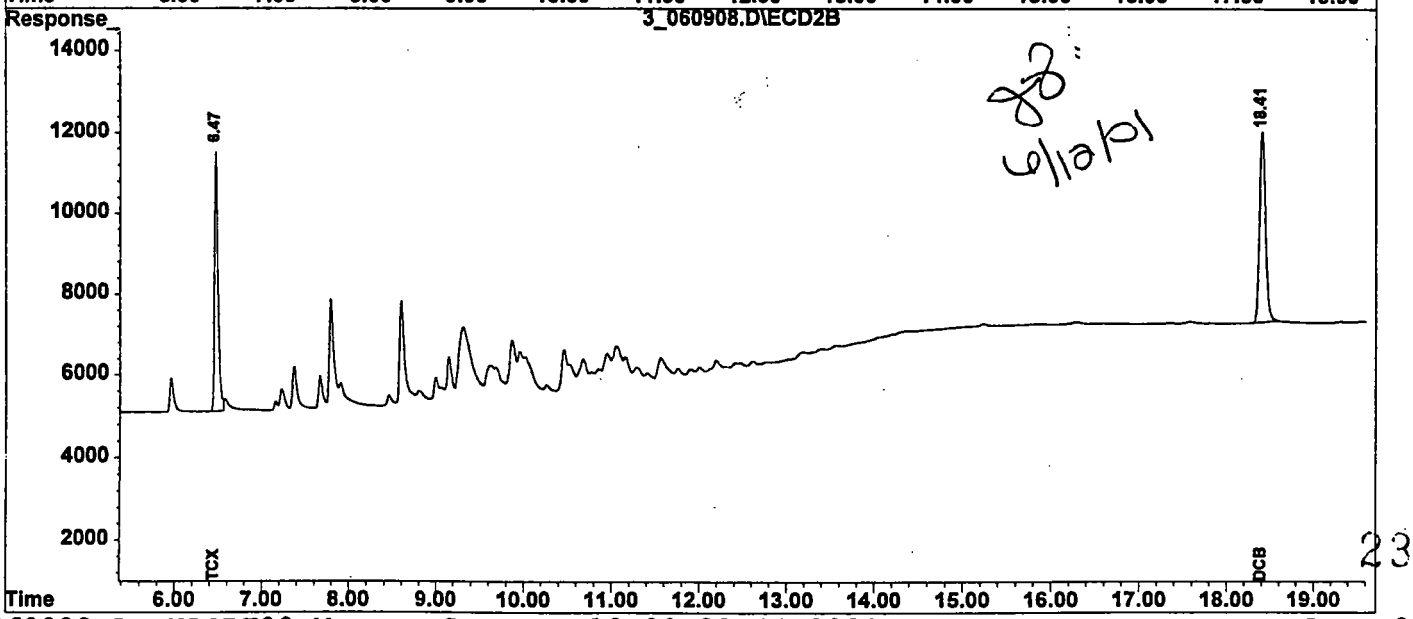
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060908.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060908.D\ECD2B.CH
Acq On : 09 Jun 2001 15:23 Operator: DDC
Sample : AR1232L33C Inst : HP_03
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
~~Quant Time: Jun 10 9:19 2001 Quant Results File: XPCBF09.RES~~
Quant Time: Jun 10 9:19 2001 Quant Results File: xspcbf09.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001

Multi-Component Method : f:\hpchem\hp\3\data\06_09_01\xspcbf09.m
Title : PCB/TOXAPHENE
Last Update : Thu May 24 12:57:13 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

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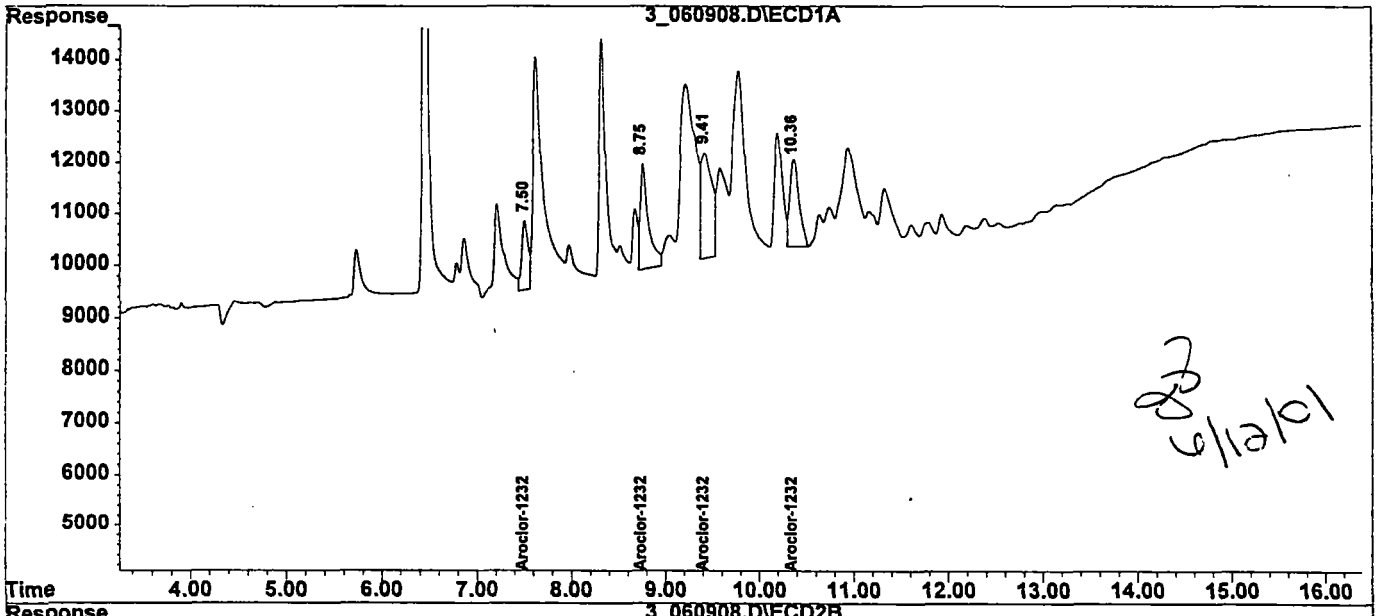
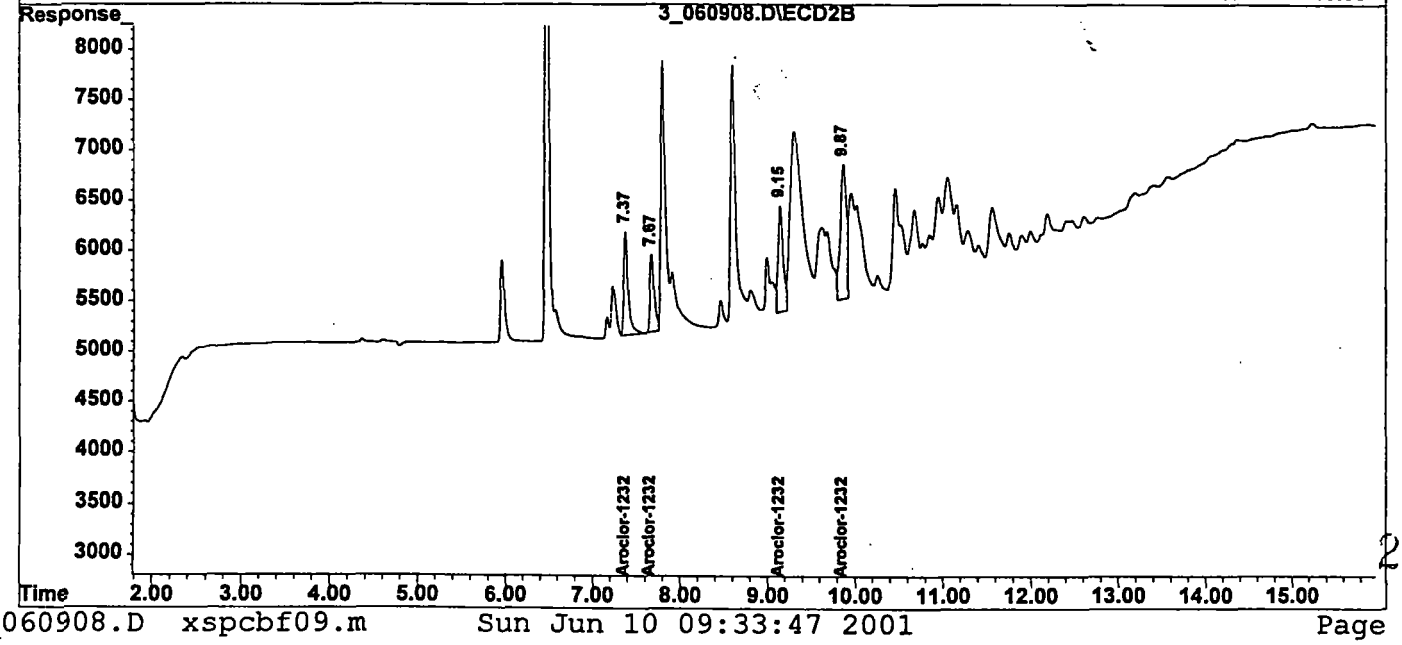
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060908.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060908.D\ECD2B.CH
Acq On : 09 Jun 2001 15:23 Operator: DDC
Sample : AR1232L33C Inst : HP_03
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:19 2001 Quant Results File: xspcbf09.RES
Quant Time: Jun 10 9:19 2001 Quant Results File: xspcbf09.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001

Multi-Component Method : f:\hpchem\hp\3\data\06_09_01\xspcbf09.m
Title : PCB/TOXAPHENE
Last Update : Thu May 24 12:57:13 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

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Response Factor Report HP_03

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Calibration Files
L1 =3_060909.D L2 =3_060910.D L3 =3_060911.D
L4 =3_060912.D L5 =3_060913.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
7) Aroclor-1242	548.4	502.4	486.5	474.1	437.7	489.8	8.27
8) Aroclor-1242 {2}	208.9	152.8	164.3	174.4	180.0	176.1	11.96
9) Aroclor-1242 {3}	695.0	650.8	610.4	590.0	544.1	618.1	9.33
10) Aroclor-1242 {4}	901.5	788.2	748.7	740.0	685.0	772.7	10.47
11) Aroclor-1242 {5}	304.0	257.4	271.7	296.9	297.6	285.5	7.00

Signal #2 Calibration Files
L1 =3_060909.D L2 =3_060910.D L3 =3_060911.D
L4 =3_060912.D L5 =3_060913.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
30) Aroclor-1242 #2	144.5	157.7	145.1	145.4	140.8	146.7	4.40
31) Aroclor-1242 {2} #2	164.9	177.4	172.8	172.2	163.4	170.1	3.45
32) Aroclor-1242 {3} #2	183.1	194.2	166.6	144.7	98.2	157.4	24.12
33) Aroclor-1242 {4} #2	196.6	214.3	202.8	207.3	196.6	203.5	3.70
34) Aroclor-1242 {5} #2	301.0	292.9	275.4	283.3	271.2	284.8	4.31

("\) = Out of Range

XPCBF09.M Sun Jun 10 08:52:30 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060909.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060909.D\ECD2B.CH
Acq On : 09 Jun 2001 15:48 Operator: DDC
Sample : AR1242L13C Inst : HP_03
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 8:51 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	125639	47178	5.327	5.074	
22)	S DCB	17.12	18.41	116418	59124	4.433	4.418	
	Target Compounds:							
7)	L4 Aroclor-1242	8.76	7.80	54837	14446	136.2	90.4	#
8)	L4 Aroclor-1242 {2}	9.06f	9.15	20885	16488	113.3 DDC 6-6-01	99.1	
9)	L4 Aroclor-1242 {3}	9.57	9.69	69500	18312	100.7m	266.6m # DDC 6-6-01	
10)	L4 Aroclor-1242 {4}	10.20	10.69	90149	19658	126.0	100.5	
	L4 Aroclor-1242 {5}	10.75f	11.07f	30399	30102	97.1	101.1	
	Sum Aroclor-1242			265770	99005	573.3	657.7	
	Average Aroclor-1242					114.656	131.534	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3099
Signature Amelia M. Williams
Date 06/12/01

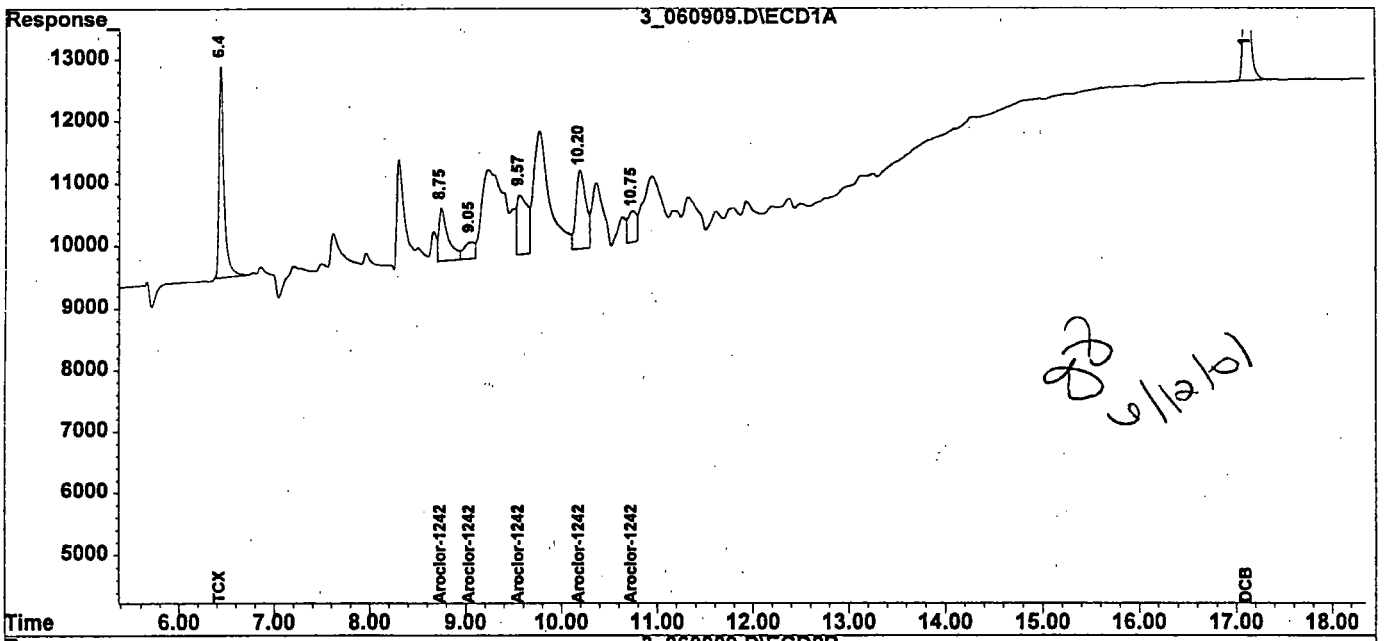
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

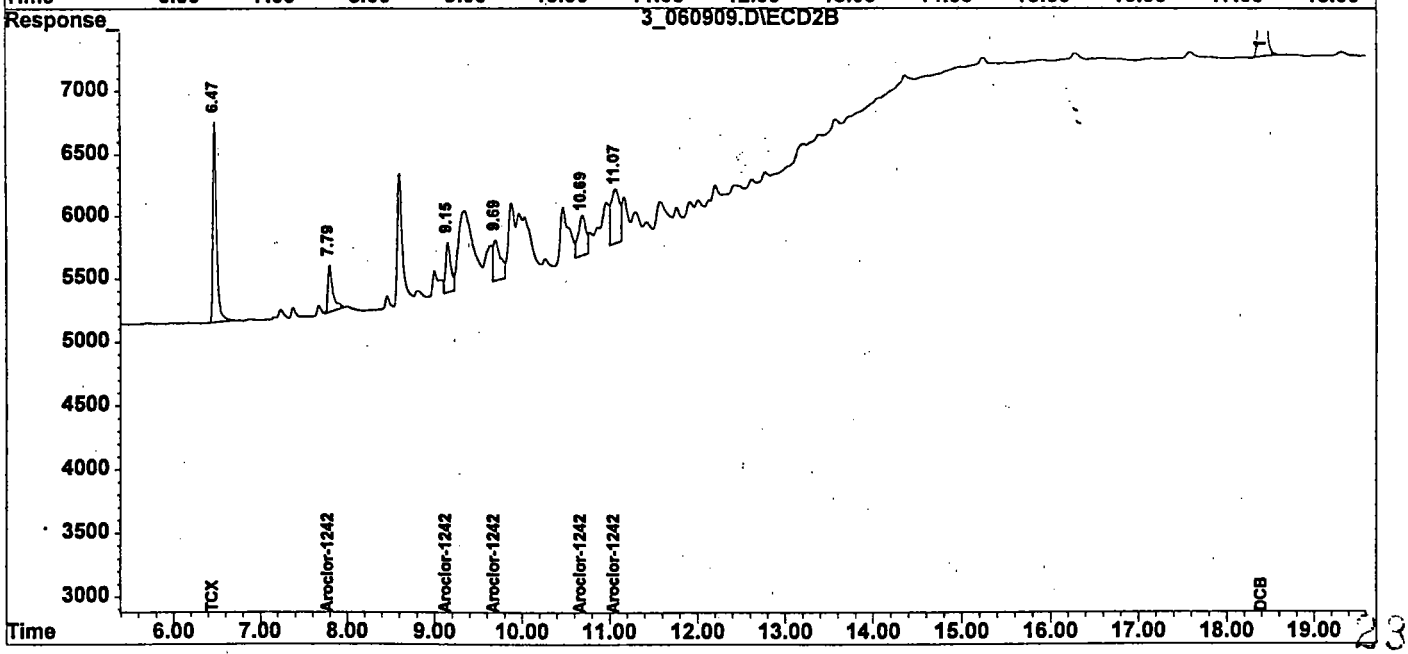
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060909.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060909.D\ECD2B.CH
Acq On : 09 Jun 2001 15:48 Operator: DDC
Sample : AR1242L13C Inst : HP_03
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 8:51 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





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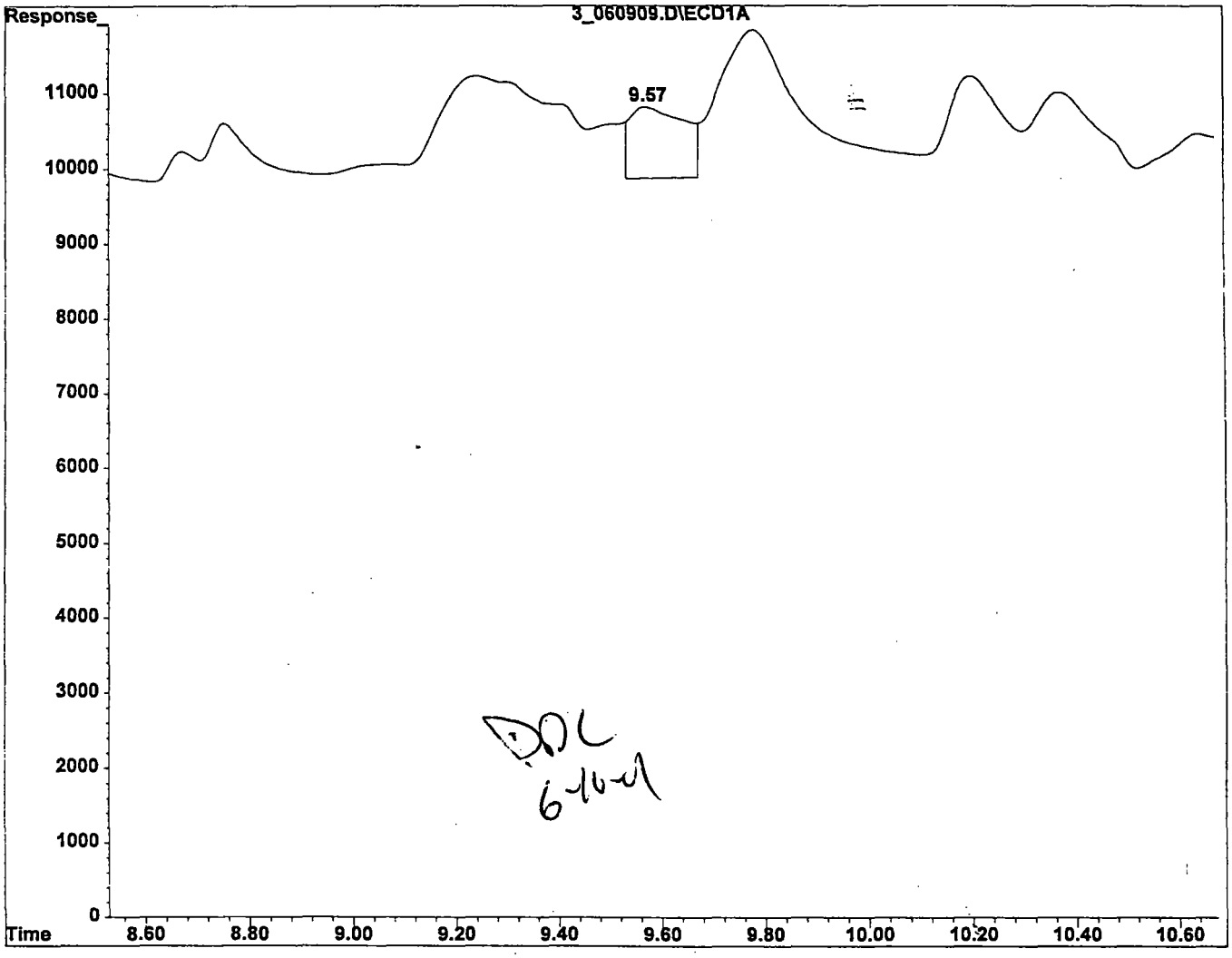
MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\06_09_01\3_060909.D
Date Acquired: 09 Jun 2001 15:48
Inst: HP_03 Operator ID: DDC
Name: AR1242L13C
Misc: 5-11-7
Method: F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title: PCB/TOXAPHENE
Quant Time: Jun 10 8:51 2001 Quant Results File: XPCBF09.RES



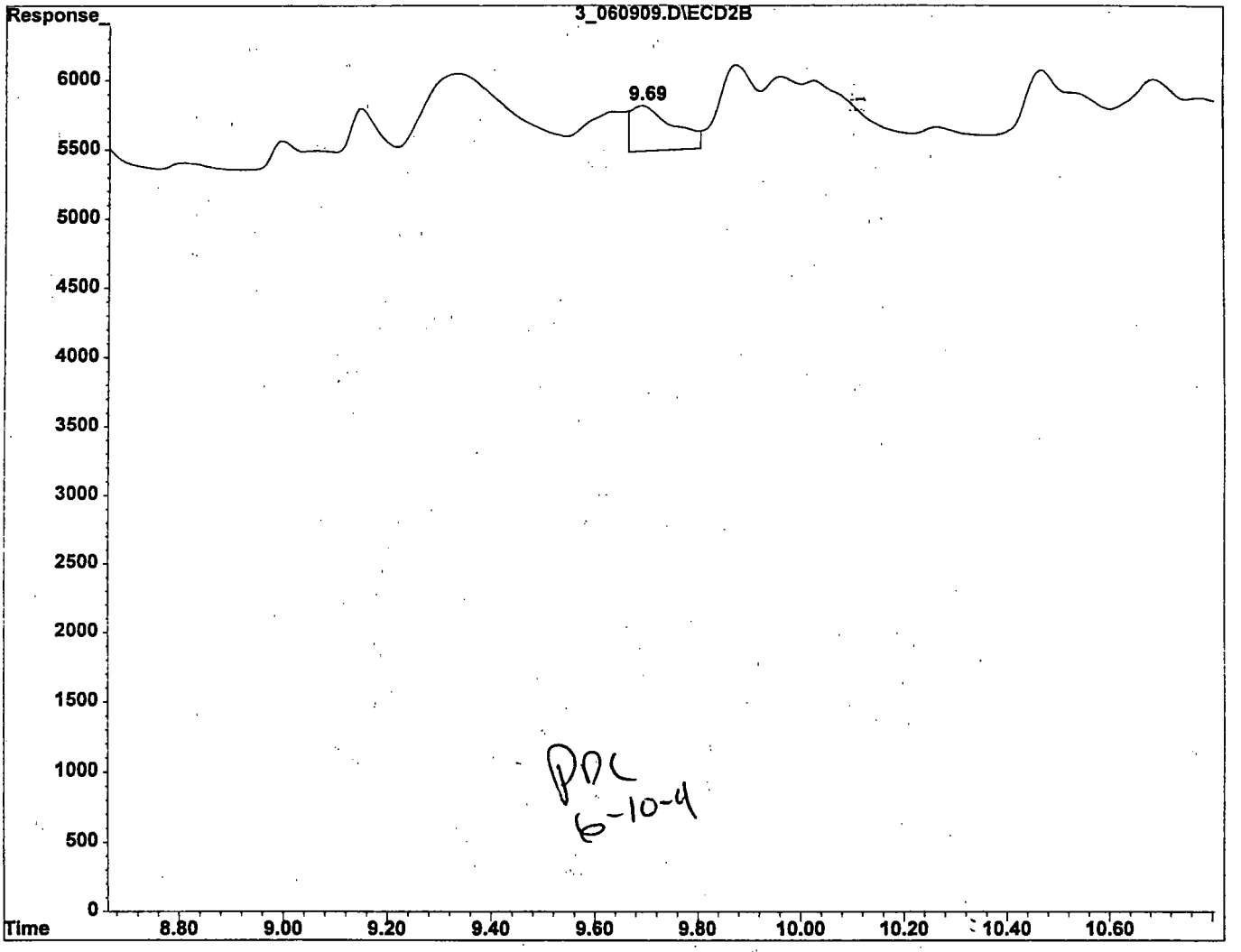
Aroclor-1242 {3} 9.57min area: 69500 m

Integration Time Range: 9.53 - 9.67

F:\HPCHEM\HP\3\DATA\06_09_01\3_060909.D
Report generated: Sun Jun 10 08:52:57 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\06_09_01\3_060909.D
Date Acquired: 09 Jun 2001 15:48
Inst: HP_03 Operator ID: DDC
Name: AR1242L13C
Misc: 5-11-7
Method: F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title: PCB/TOXAPHENE
Quant Time: Jun 10 8:51 2001 Quant Results File: XPCBF09.RES



Aroclor-1242 {3} #2 9.69min area: 18312 m

Integration Time Range: 9.66 - 9.80

F:\HPCHEM\HP\3\DATA\06_09_01\3_060909.D
Report generated: Sun Jun 10 08:52:57 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060910.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060910.D\ECD2B.CH
Acq On : 09 Jun 2001 16:12 Operator: DDC
Sample : AR1242L23C Inst : HP_03
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 8:47 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	259000	96830	10.7	10.3	
22)	S DCB	17.12	18.41	263256	133381	10.4	10.3	
	Target Compounds:							
7)	L4 Aroclor-1242	8.76	7.80	100485	31550	235.6	206.4	
8)	L4 Aroclor-1242 {2}	9.06	9.15	30551	35488	160.3	214.8	#
9)	L4 Aroclor-1242 {3}	9.57	9.69	130166	38832	172.4	314.0	#
10)	L4 Aroclor-1242 {4}	10.20	10.69	157633	42852	211.7	218.5	
	L4 Aroclor-1242 {5}	10.75	11.07	51488	58571	172.2	198.1	
	Sum Aroclor-1242			470323	207293	952.3	1151.9	
	Average Aroclor-1242					190.456	230.371	

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3079
Signature Gwenda M. Williams
Date 06/12/01

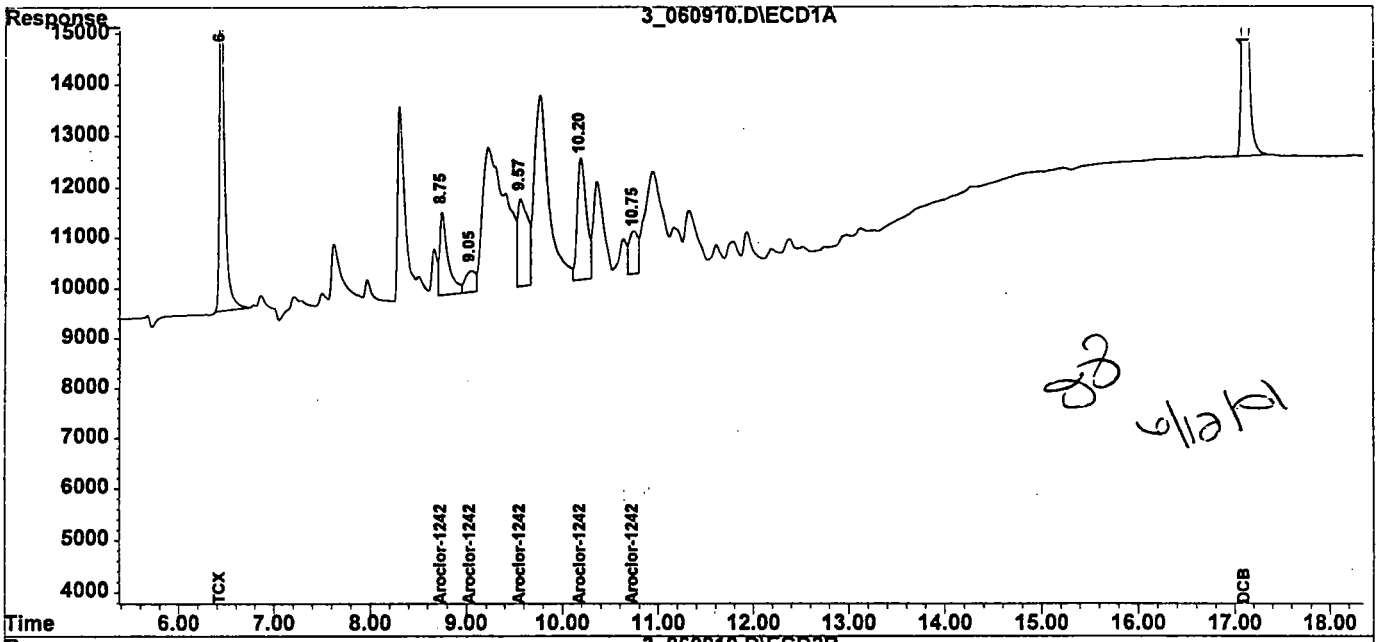
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

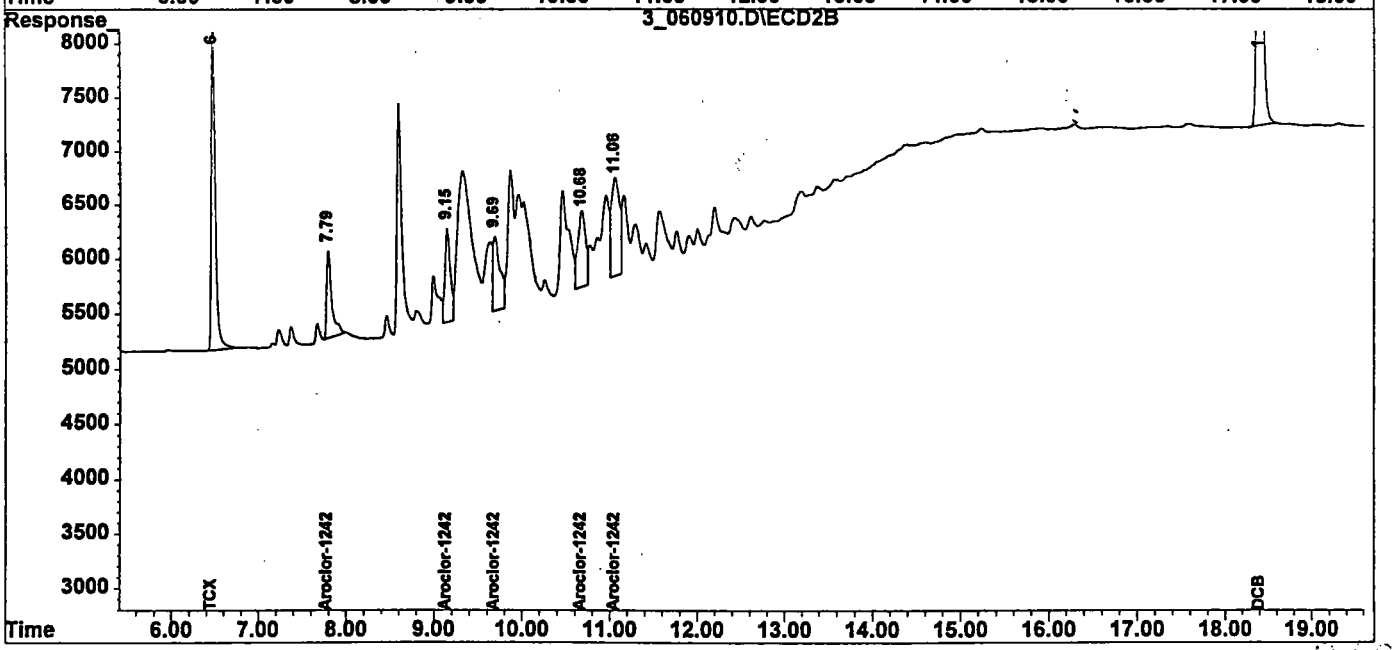
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060910.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060910.D\ECD2B.CH
Acq On : 09 Jun 2001 16:12 Operator: DDC
Sample : AR1242L23C Inst : HP_03
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 8:47 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060911.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060911.D\ECD2B.CH
Acq On : 09 Jun 2001 16:37 Operator: DDC
Sample : AR1242L33C Inst : HP_03
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 8:47 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.44	6.47	521342	195316	21.3	20.6	
22)	S DCB	17.12	18.41	471334	240240	18.7	18.6	
	Target Compounds:							
7)	L4 Aroclor-1242	8.75	7.80	194581	58032	440.1	375.2	
8)	L4 Aroclor-1242 {2}	9.04	9.15	65738	69108	354.1	417.3	
9)	L4 Aroclor-1242 {3}	9.58	9.69	244168	66640	329.9	454.4	#
10)	L4 Aroclor-1242 {4}	10.19	10.68	299477	81126	397.3	408.8	
	L4 Aroclor-1242 {5}	10.74	11.06	108694	110164	372.1	376.6	
	Sum Aroclor-1242			912659	385070	1893.5	2032.2	
	Average Aroclor-1242					378.704	406.446	

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3099
Signature Gretchen M Williams
Date 06/12/01

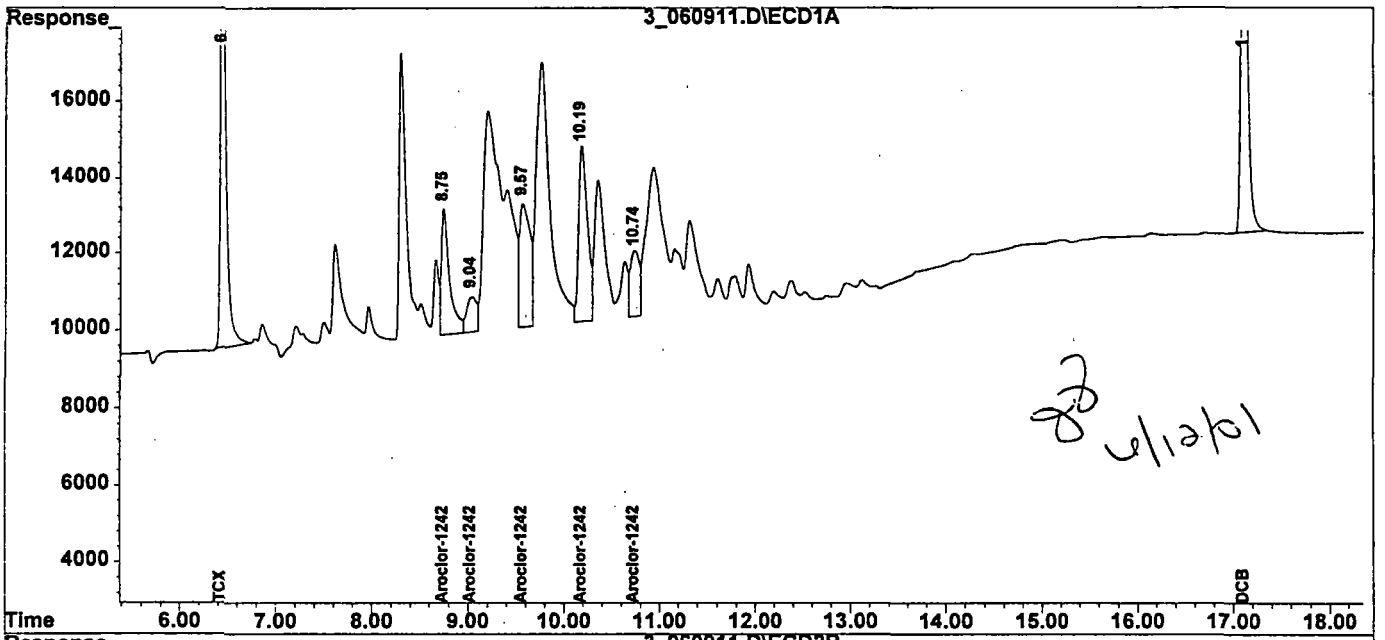
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

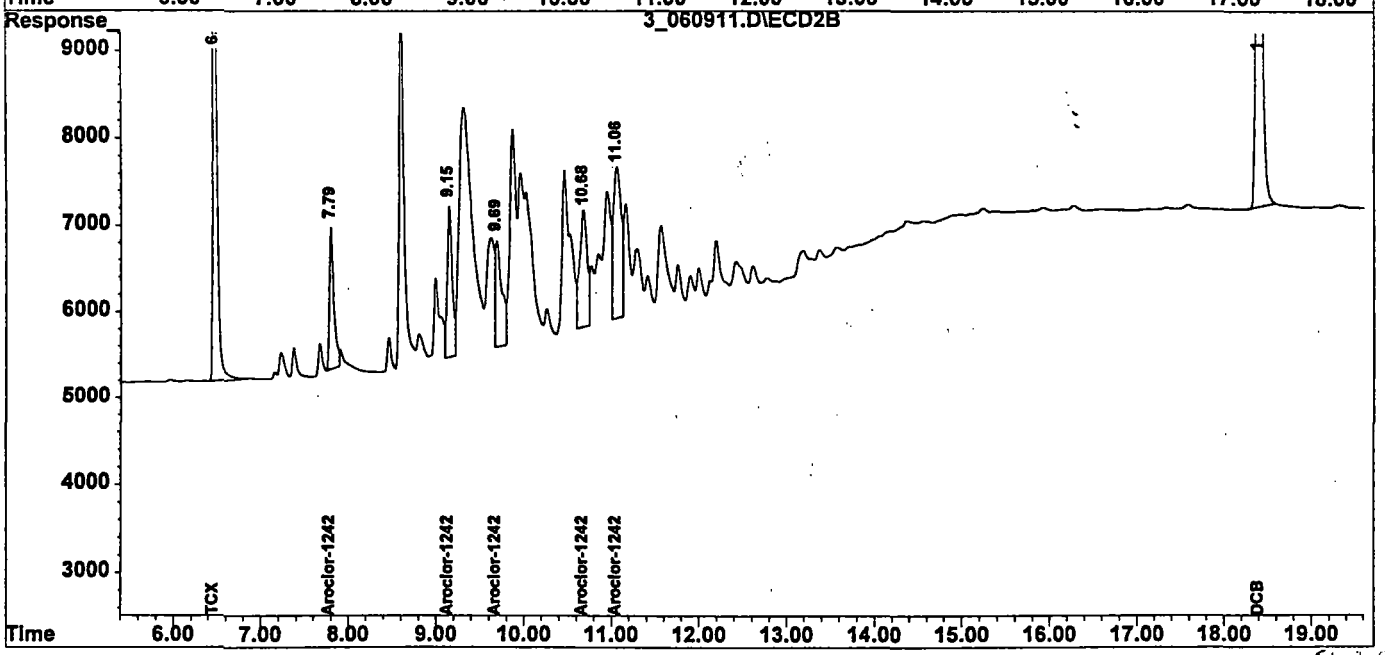
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060911.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060911.D\ECD2B.CH
Acq On : 09 Jun 2001 16:37 Operator: DDC
Sample : AR1242L33C Inst : HP_03
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 8:47 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060912.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060912.D\ECD2B.CH
Acq On : 09 Jun 2001 17:02 Operator: DDC
Sample : AR1242L43C Inst : HP_03
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 8:48 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.44	6.47	1061420	403523	42.6	42.3	
22)	S DCB	17.12	18.41	957923	491409	38.7	38.8	
	Target Compounds:							
7)	L4 Aroclor-1242	8.75	7.80	379275	116313	825.6	768.6	
8)	L4 Aroclor-1242 {2}	9.03	9.15	139543	137771	763.3	823.4	
9)	L4 Aroclor-1242 {3}	9.58	9.69	471999	115774	653.2	697.2	E
10)	L4 Aroclor-1242 {4}	10.19	10.68	591962	165841	774.3	827.6	
	L4 Aroclor-1242 {5}	10.74	11.06	237549	226613	818.9	782.8	
	Sum Aroclor-1242			1820327	762311	3835.2	3899.6	
	Average Aroclor-1242					767.040	779.925	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3099
Signature Arnelda M. Gilliam
Date 06/12/01
DOC

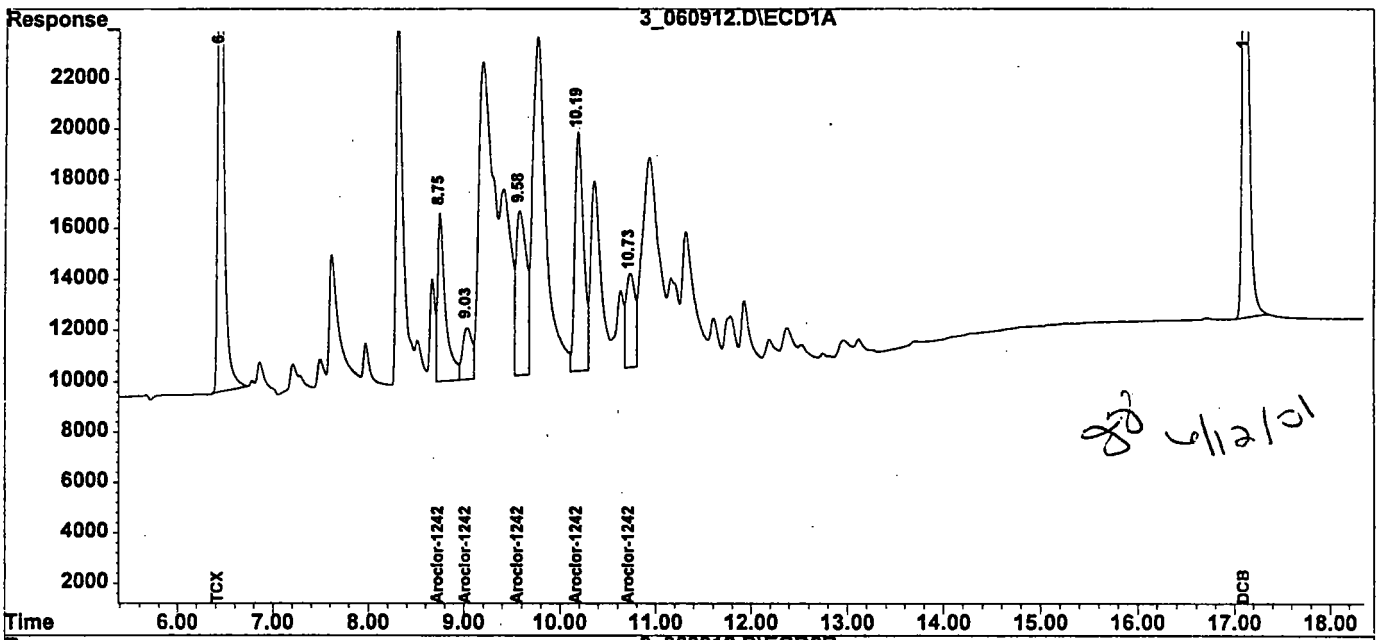
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

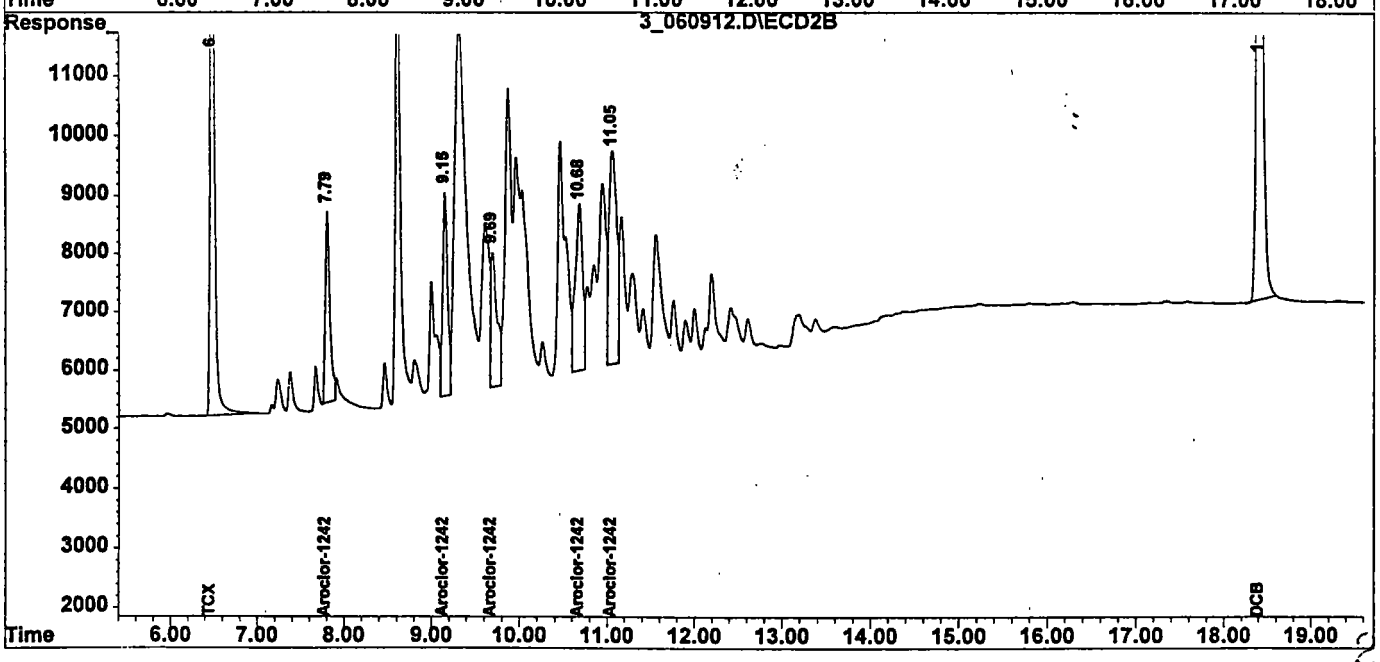
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060912.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060912.D\ECD2B.CH
Acq On : 09 Jun 2001 17:02 Operator: DDC
Sample : AR1242L43C Inst : HP_03
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 8:48 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060913.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060913.D\ECD2B.CH
Acq On : 09 Jun 2001 17:26 Operator: DDC
Sample : AR1242L53C Inst : HP_03
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 8:48 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.44	6.47	2092078	815127	82.4 E	84.3 E
22)	S DCB	17.12	18.41	1755535	912562	72.1	73.2
	Target Compounds:						
7)	L4 Aroclor-1242	8.75	7.80	700371	225205	1471.4 E	1513.5
8)	L4 Aroclor-1242 {2}	9.02	9.15	287974	261413	1603.9	1546.3 E
9)	L4 Aroclor-1242 {3}	9.58	9.69	870565	157144	1242.7	861.1 E#
10)	L4 Aroclor-1242 {4}	10.18	10.68	1095983	314525	1421.5 E	1554.8 E
	L4 Aroclor-1242 {5}	10.73	11.05	476199	433971	1654.0	1512.9
	Sum Aroclor-1242			3431092	1392258	7393.5	6988.7
	Average Aroclor-1242					1478.708	1397.733

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Signature [signature]
Date 06/12/01

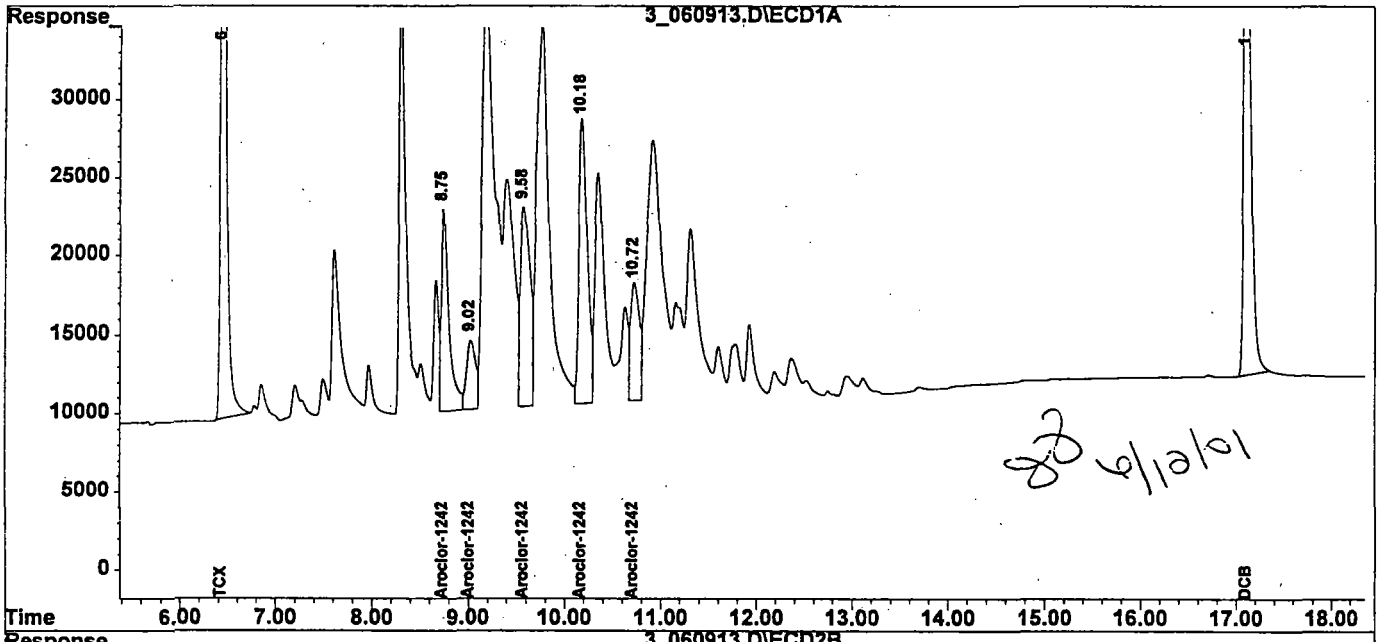
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

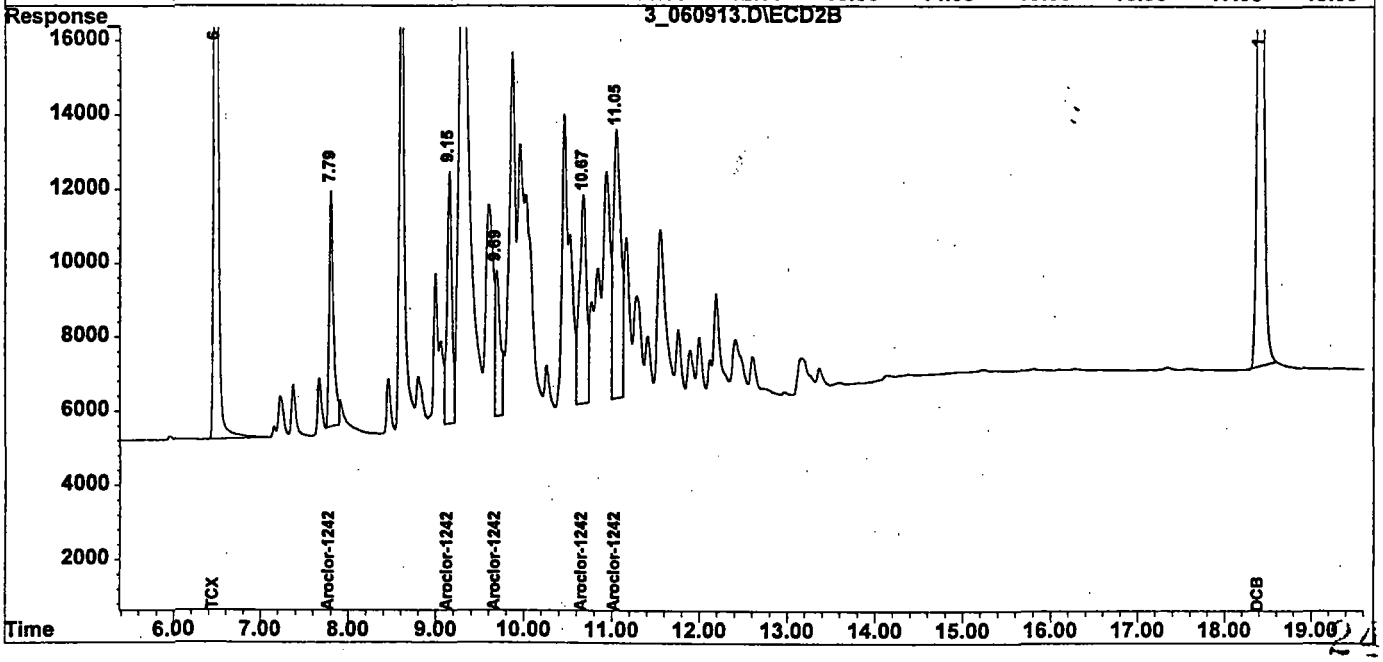
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060913.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060913.D\ECD2B.CH
Acq On : 09 Jun 2001 17:26 Operator: DDC
Sample : AR1242L53C Inst : HP_03
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 8:48 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060914.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060914.D\ECD2B.CH
Acq On : 09 Jun 2001 17:51 Operator: DDC
Sample : AR1248L33C Inst : HP_03
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:20 2001 Quant Results File: XPCBF09.RES
Multi Time: Jun 10 9:20 2001 Quant Results File: xspcbf09.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001

Multi-Component Method : f:\hpchem\hp\3\data\06_09_01\xspcbf09.m
Title : PCB/TOXAPHENE
Last Update : Thu May 24 12:57:13 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.44	6.47	473554	177077	18.4	18.0	
22)	S DCB	17.12	18.41	417803	211588	17.9	17.9	
	Target Compounds:							
	Multi-Component Compounds:							
1	L5 Aroclor-1248	9.78	9.70	890972	43533	381.0	539.6	#
15)	L5 Aroclor-1248 {2}	10.36	9.87	394024	143548	355.7	310.9	
16)	L5 Aroclor-1248 {3}	10.64	10.86f	72232	54219	329.0	217.8	#
17)	L5 Aroclor-1248 {4}	11.32	11.17	421785	145574	358.7	548.2	#
18)	L5 Aroclor-1248 {5}	11.93	11.76	192827	60918	339.8	470.1	#
	Sum Aroclor-1248			1971840	447793	1764.3	2086.7	
	Average Aroclor-1248					352.866	417.330	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3099
Signature Arnella M. Williams
Date 06/12/01

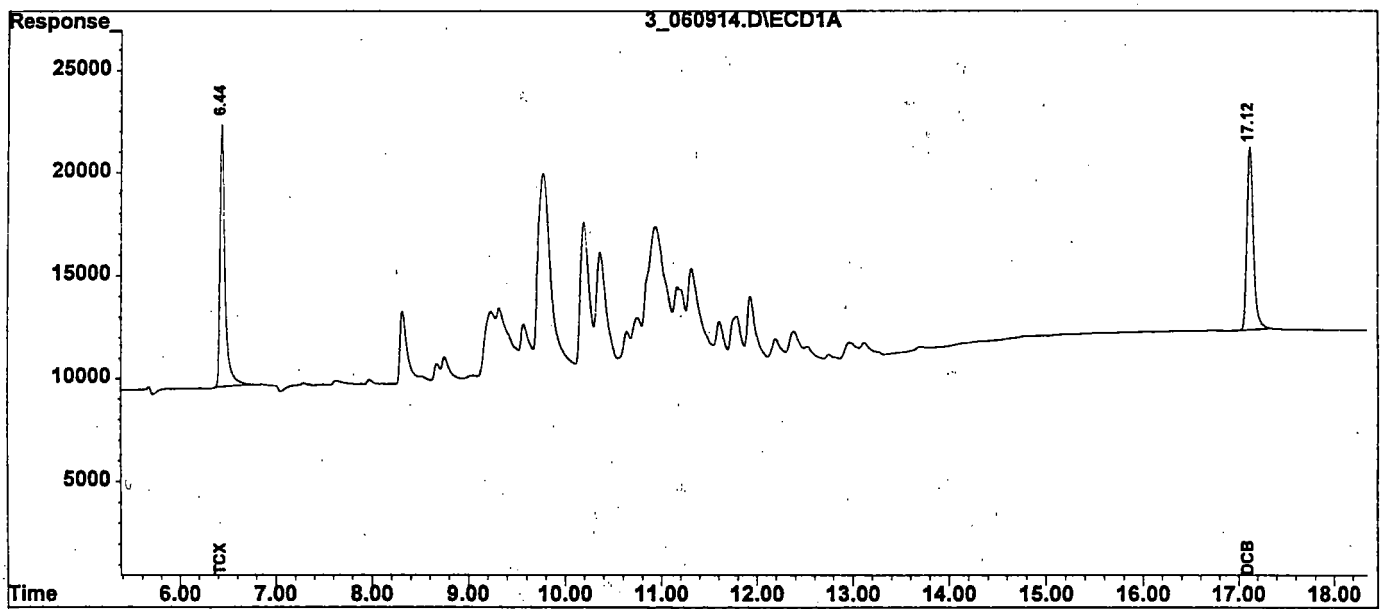
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

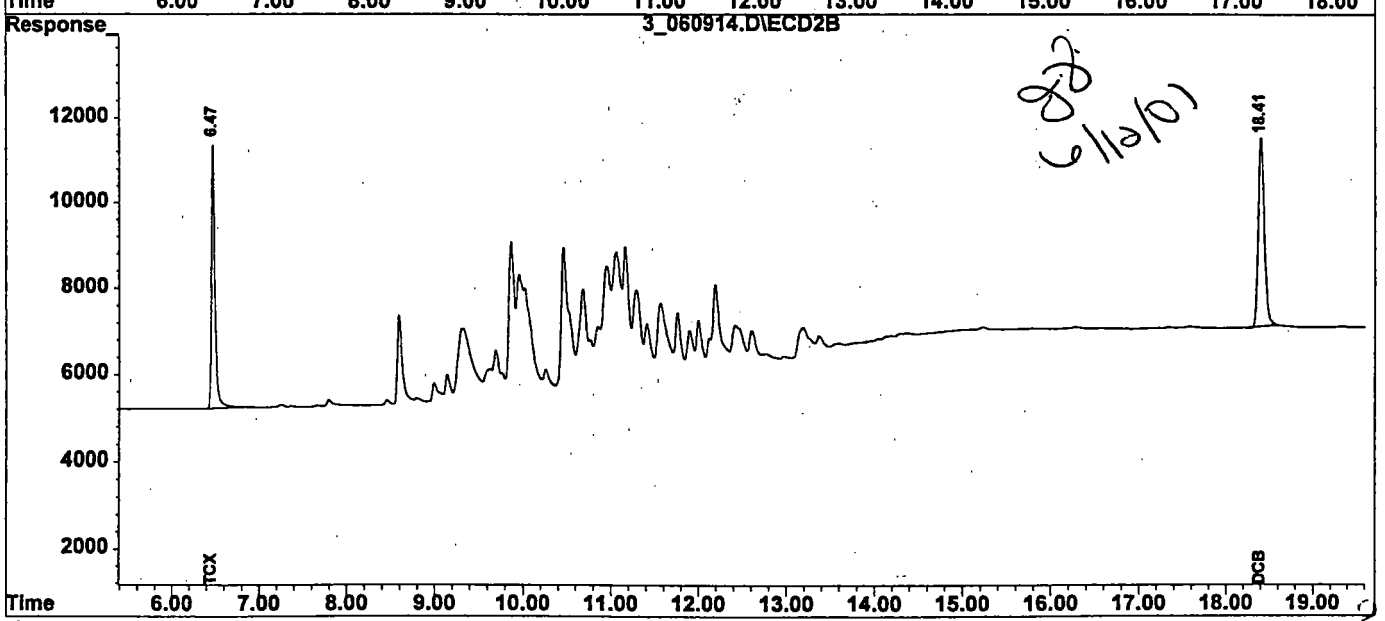
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060914.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060914.D\ECD2B.CH
Acq On : 09 Jun 2001 17:51 Operator: DDC
Sample : AR1248L33C Inst : HP_03
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
~~Quant Time: Jun 10 9:20 2001 Quant Results File: XPCBF09.RES~~
Quant Time: Jun 10 9:20 2001 Quant Results File: xspcbf09.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001

Multi-Component Method : f:\hpchem\hp\3\data\06_09_01\xspcbf09.m
Title : PCB/TOXAPHENE
Last Update : Thu May 24 12:57:13 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





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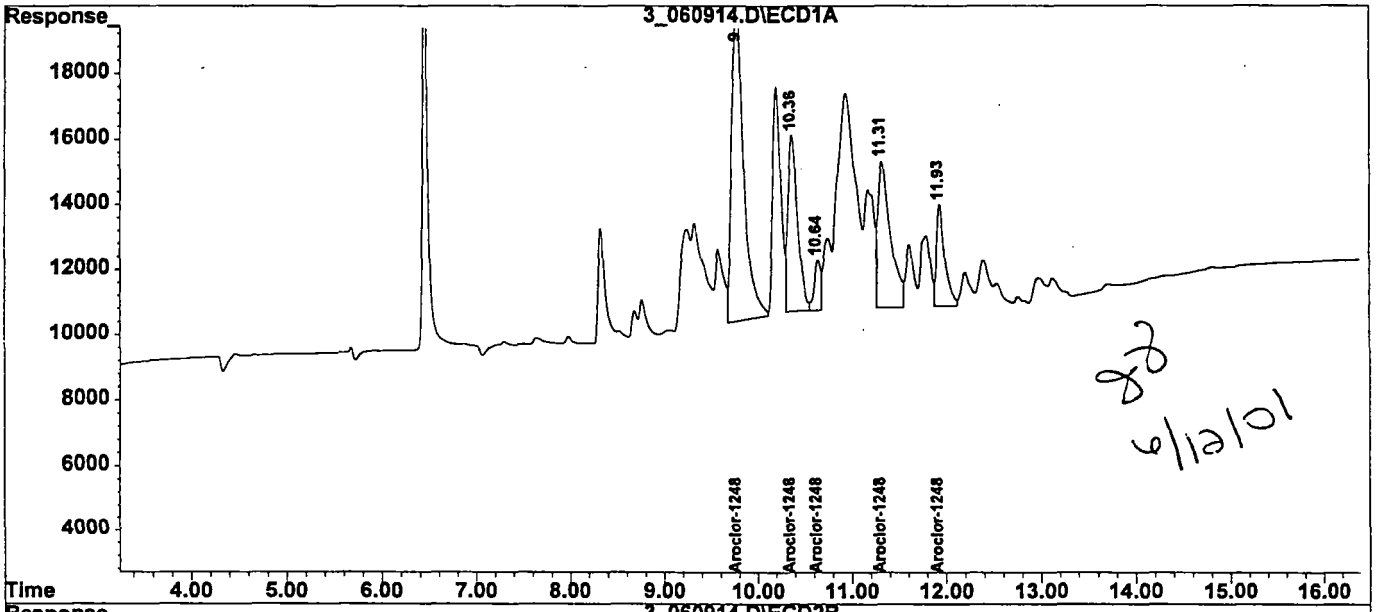
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060914.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060914.D\ECD2B.CH
Acq On : 09 Jun 2001 17:51 Operator: DDC
Sample : AR1248L33C Inst : HP_03
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:20 2001 Quant Results File: xspcbf09.RES
Quant Time: Jun 10 9:20 2001 Quant Results File: xspcbf09.RES

Pesticide Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001

Multi-Component Method : f:\hpchem\hp\3\data\06_09_01\xspcbf09.m
Title : PCB/TOXAPHENE
Last Update : Thu May 24 12:57:13 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B



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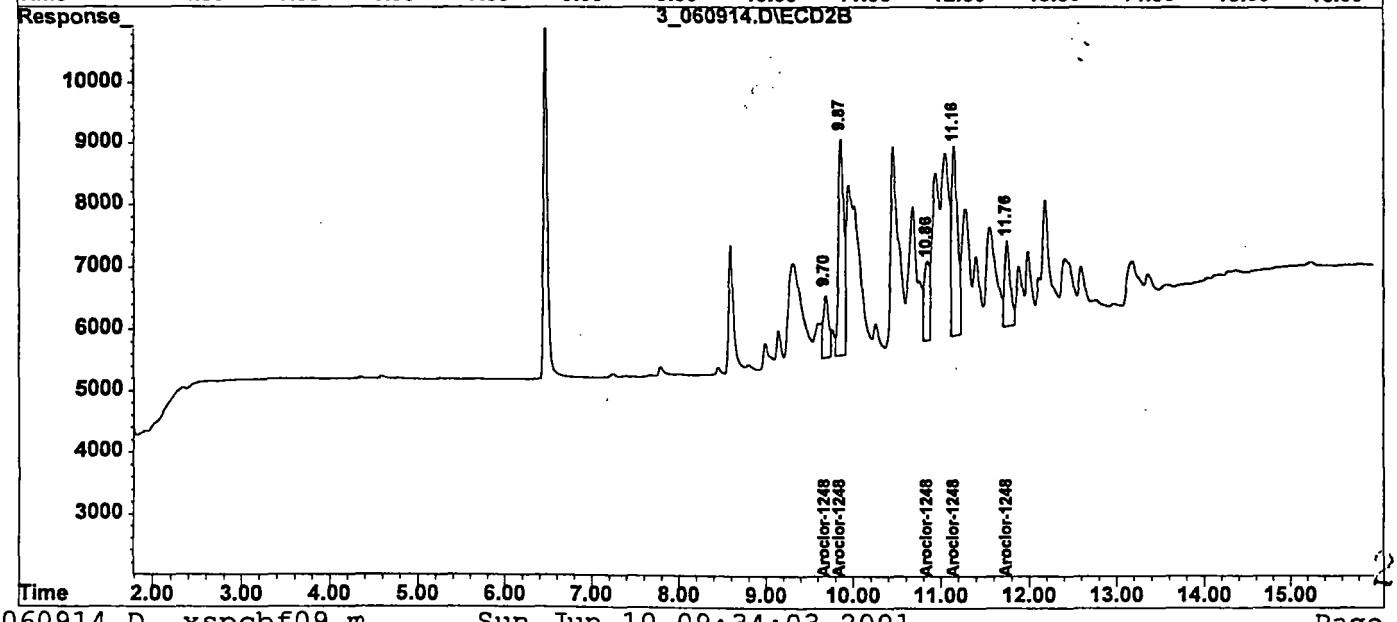
6/12/01



249

Response Factor Report HP_03

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Calibration Files
L1 =3_060915.D L2 =3_060916.D L3 =3_060917.D
L4 =3_060918.D L5 =3_060919.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
12) Aroclor-1254	1.1	1.1	0.9	0.8	0.8	1.0 E3	15.52
13) Aroclor-1254 {2}	333.6	505.0	458.7	437.9	425.1	432.0	14.55
14) Aroclor-1254 {3}	668.5	974.1	938.0	902.4	904.2	877.5	13.73
15) Aroclor-1254 {4}	273.7	423.0	405.6	379.3	348.4	366.0	16.06
16) Aroclor-1254 {5}	1.5	1.7	1.6	1.5	1.2	1.5 E3	12.59

Signal #2 Calibration Files
L1 =3_060915.D L2 =3_060916.D L3 =3_060917.D
L4 =3_060918.D L5 =3_060919.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
35) Aroclor-1254 #2	126.6	155.6	142.3	138.2	135.9	139.7	7.57
36) Aroclor-1254 {2} #2	332.5	384.7	371.5	356.9	248.1	338.8	16.01
37) Aroclor-1254 {3} #2	293.7	344.1	323.0	310.8	293.3	313.0	6.84
38) Aroclor-1254 {4} #2	756.2	884.0	825.4	855.2	724.7	809.1	8.27
39) Aroclor-1254 {5} #2	495.9	570.3	529.8	493.4	438.2	505.5	9.67

) = Out of Range

XPCBF09.M Sun Jun 10 09:03:02 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060915.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060915.D\ECD2B.CH
Acq On : 09 Jun 2001 18:16 Operator: DDC
Sample : AR1254L13C Inst : HP_03
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:02 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.44	6.47	122690	46089	4.662	4.606	
22)	S DCB	17.12	18.41	122965	61913	5.137	5.092	
	Target Compounds:							
12)	L6 Aroclor-1254	9.75	10.48	107439	12662	112.3	90.6	
13)	L6 Aroclor-1254 {2}	11.62	11.42	33359	33252	77.2	98.2	#
14)	L6 Aroclor-1254 {3}	12.41f	12.01	66845	29373	76.2	93.8	
	L6 Aroclor-1254 {4}	12.75	12.20	27371	75620	74.8	718.7	#
	L6 Aroclor-1254 {5}	13.12	12.63	148476	49590	99.0	98.1	
	Sum Aroclor-1254			383491	200497	439.5	1099.5	
	Average Aroclor-1254					87.907	219.894	

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CSF 29294 SDG E3099
Signature Arnelle M. Williams
Date 06/12/01

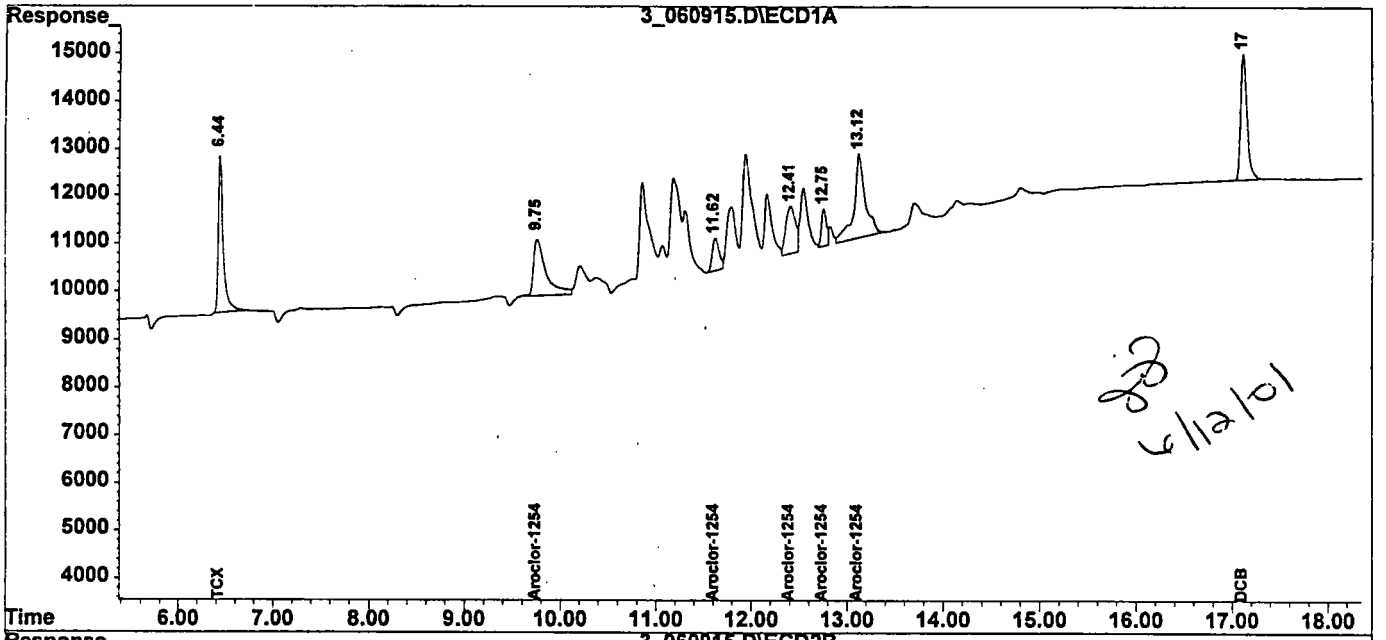
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

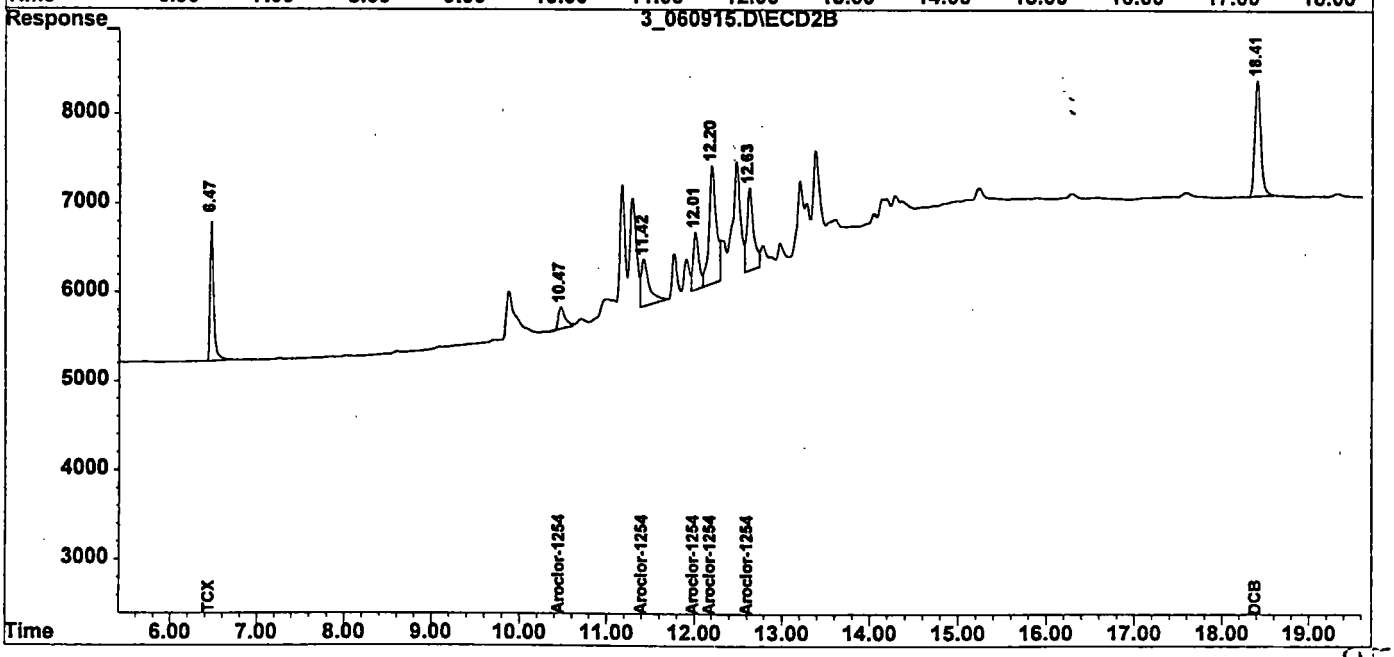
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060915.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060915.D\ECD2B.CH
Acq On : 09 Jun 2001 18:16 Operator: DDC
Sample : AR1254L13C Inst : HP_03
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:02 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060916.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060916.D\ECD2B.CH
Acq On : 09 Jun 2001 18:41 Operator: DDC
Sample : AR1254L23C Inst : HP_03
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:02 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	289362	109062	11.0	10.9
22)	S DCB	17.12	18.41	273889	138116	11.4	11.4
	Target Compounds:						
12)	L6 Aroclor-1254	9.75	10.47	227152	31123	237.5	222.7
13)	L6 Aroclor-1254 {2}	11.62	11.42	100993	76941	233.8	227.1
14)	L6 Aroclor-1254 {3}	12.41	12.01	194827	68826	222.0	219.9
	L6 Aroclor-1254 {4}	12.75	12.20	84600	176791	231.1	814.5 E#
	L6 Aroclor-1254 {5}	13.12	12.63	344960	114059	230.0	225.6
	Sum Aroclor-1254			952532	467740	1154.5	1709.9
	Average Aroclor-1254					230.902	341.977

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Signature Arnelda M. Williams
Date 06/12/01

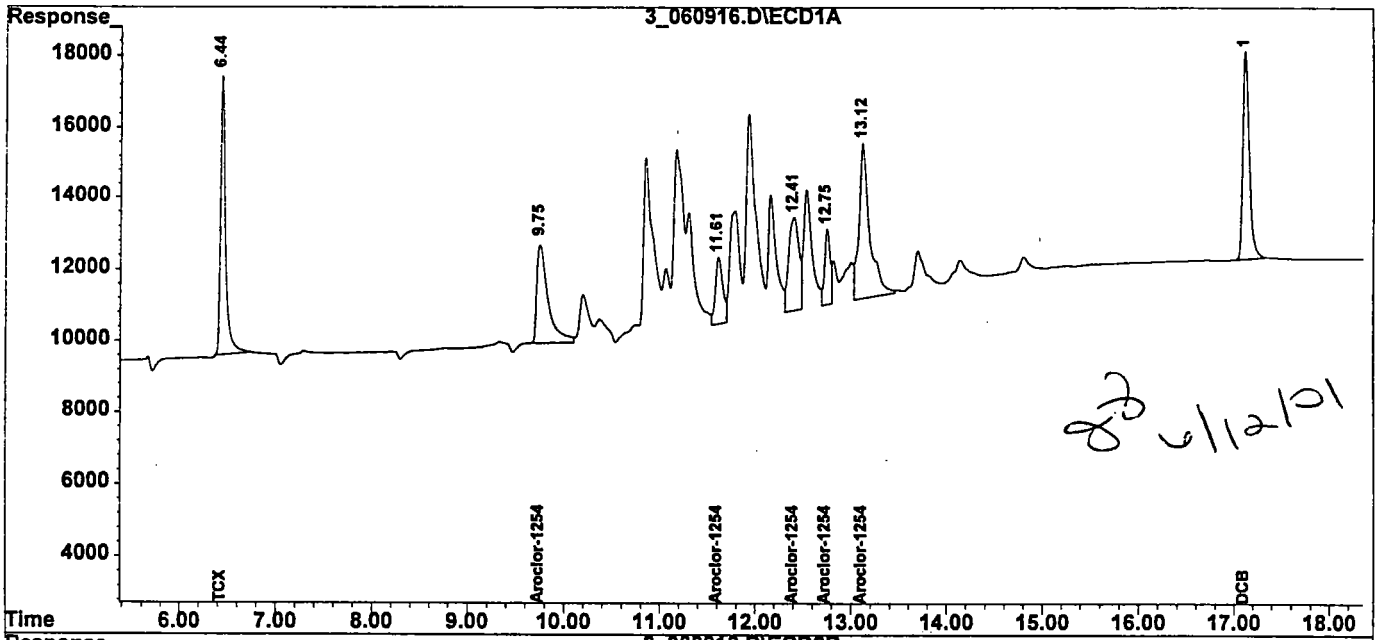
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

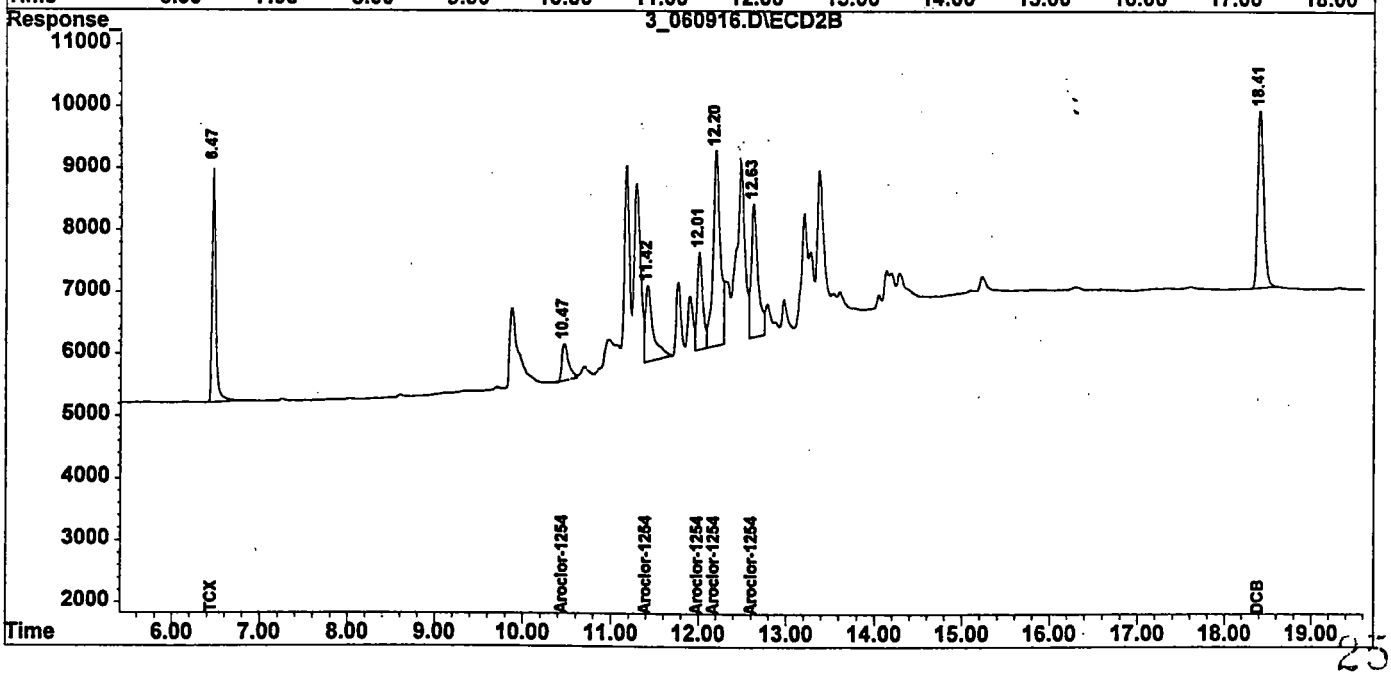
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060916.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060916.D\ECD2B.CH
Acq On : 09 Jun 2001 18:41 Operator: DDC
Sample : AR1254L23C Inst : HP_03
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:02 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





254

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060917.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060917.D\ECD2B.CH
Acq On : 09 Jun 2001 19:05 Operator: DDC
Sample : AR1254L33C Inst : HP_03
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:02 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.44	6.47	521982	196330	19.8	19.6
22)	S DCB	17.12	18.41	487175	246308	20.4	20.3
	Target Compounds:						
12)	L6 Aroclor-1254	9.75	10.47	375816	56909	393.0	407.3
13)	L6 Aroclor-1254 {2}	11.61	11.41	183491	148595	424.7	438.6
14)	L6 Aroclor-1254 {3}	12.40	12.00	375203	129190	427.6	412.8
	L6 Aroclor-1254 {4}	12.75	12.20	162258	330175	443.3	876.9 E#
	L6 Aroclor-1254 {5}	13.12	12.63	637895	211904	425.4	419.2
	Sum Aroclor-1254			1734663	876774	2114.0	2554.8
	Average Aroclor-1254					422.801	510.956

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3099
Signature Arnelda M. Williams
Date 06/12/01

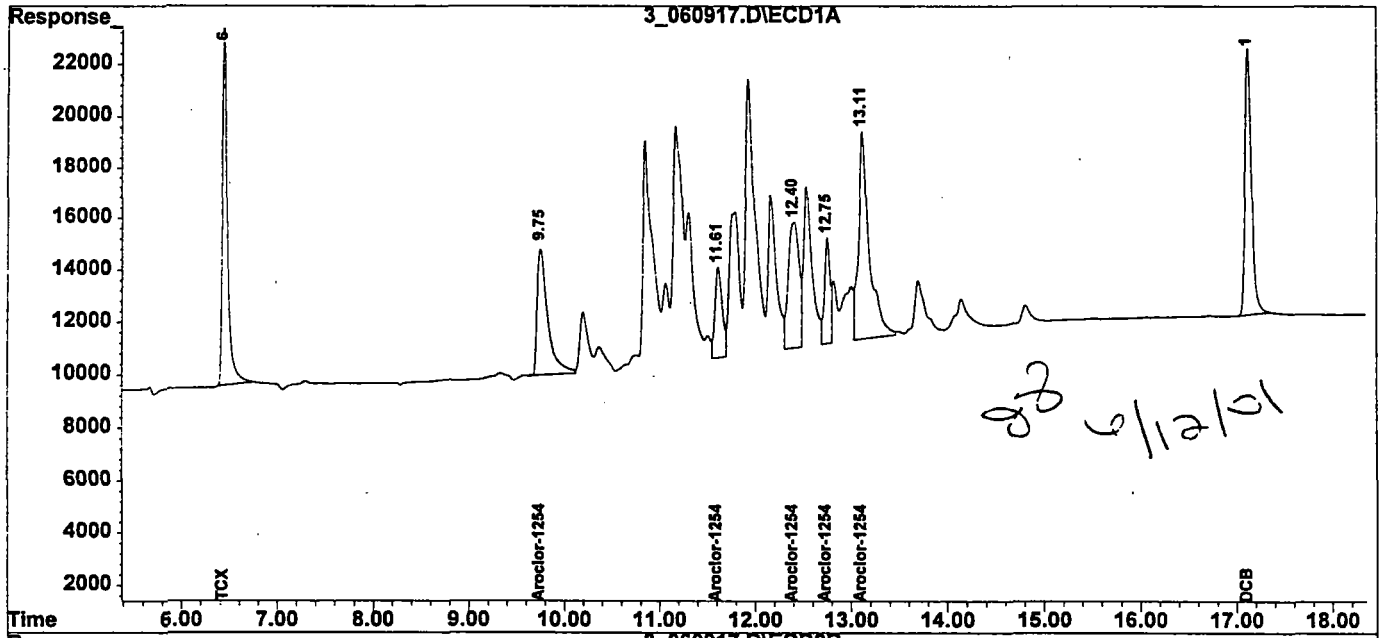
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060917.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060917.D\ECD2B.CH
Acq On : 09 Jun 2001 19:05 Operator: DDC
Sample : AR1254L33C Inst : HP_03
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:02 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B



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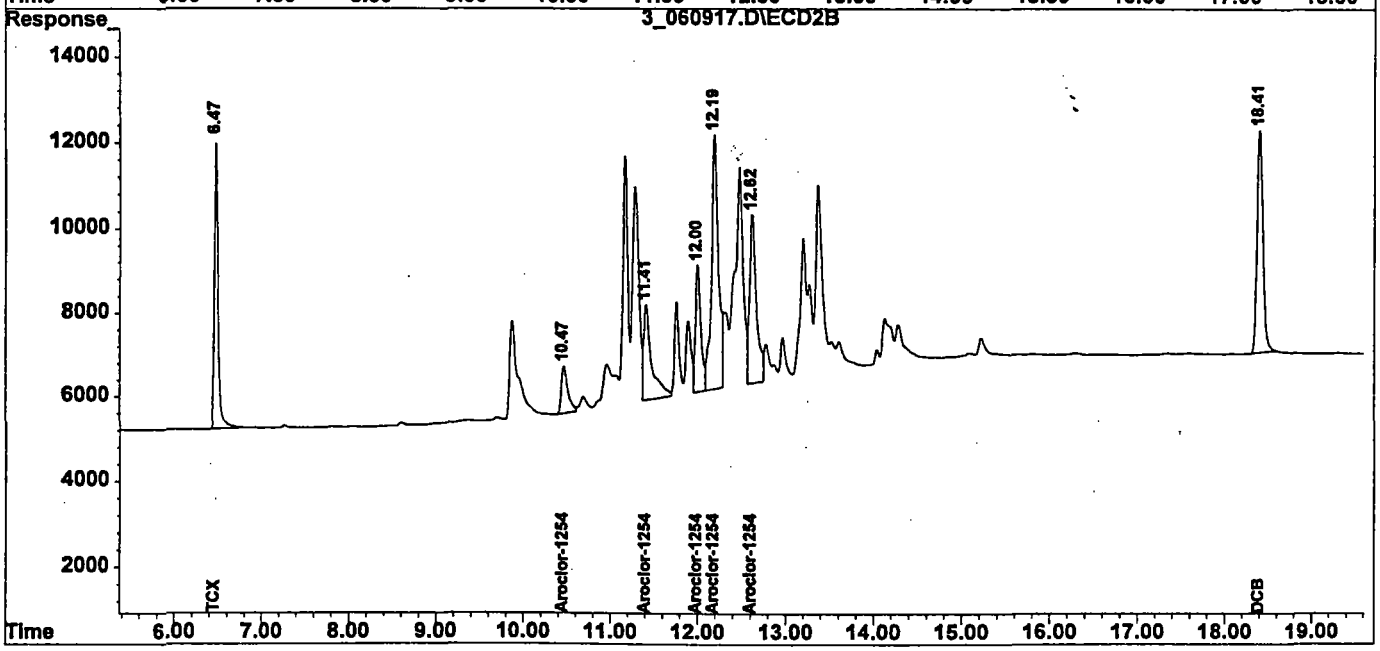


256

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060918.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060918.D\ECD2B.CH
Acq On : 09 Jun 2001 19:30 Operator: DDC
Sample : AR1254L43C Inst : HP_03
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:02 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.44	6.47	1031589	392228	39.2	39.2
22)	S DCB	17.12	18.41	904638	461645	37.8	38.0
	Target Compounds:						
12)	L6 Aroclor-1254	9.74	10.46	679367	110565	710.4	791.3
13)	L6 Aroclor-1254 {2}	11.61	11.41	350281	285539	810.8	842.9
14)	L6 Aroclor-1254 {3}	12.40	12.00	721935	248656	822.8	794.5
	L6 Aroclor-1254 {4}	12.75	12.19	303439	684140	829.0	1296.7 E#
	L6 Aroclor-1254 {5}	13.11	12.62	1184565	394745	789.9	780.9
	Sum Aroclor-1254			3239586	1723645	3962.9	4506.3
	Average Aroclor-1254					792.583	901.255

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3099
Signature [signature]
Date 06/12/01

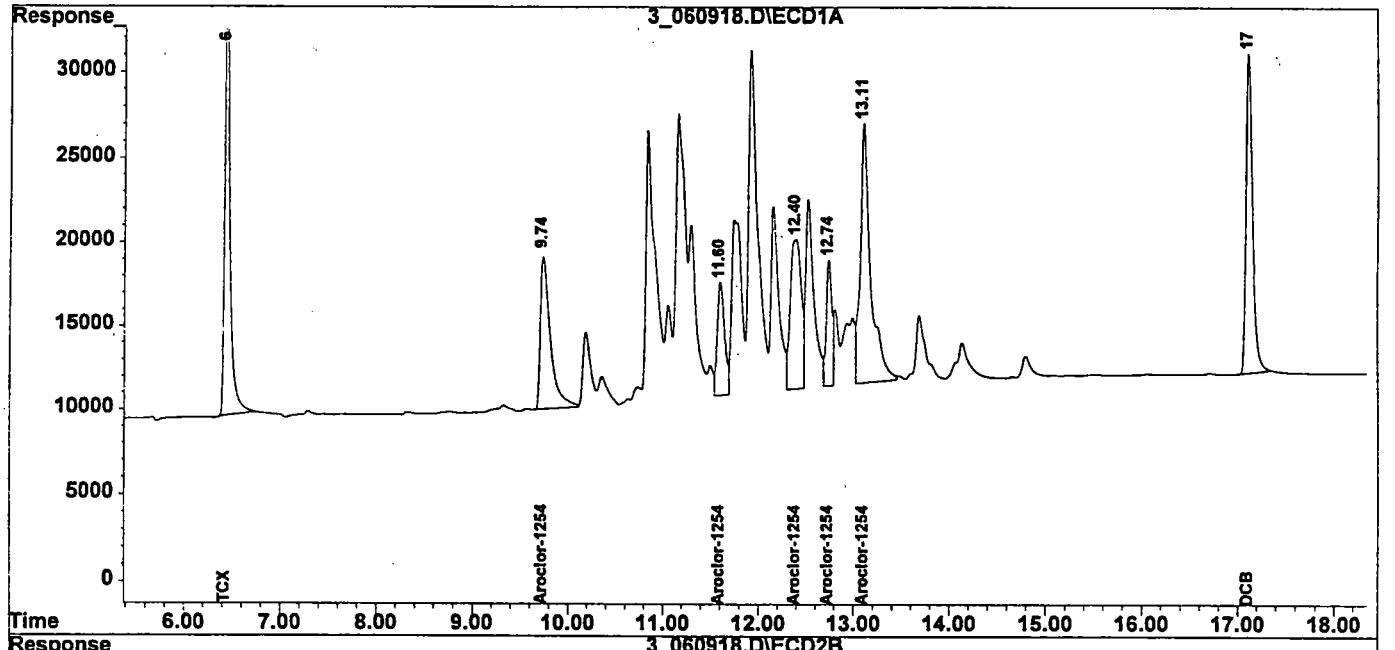
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

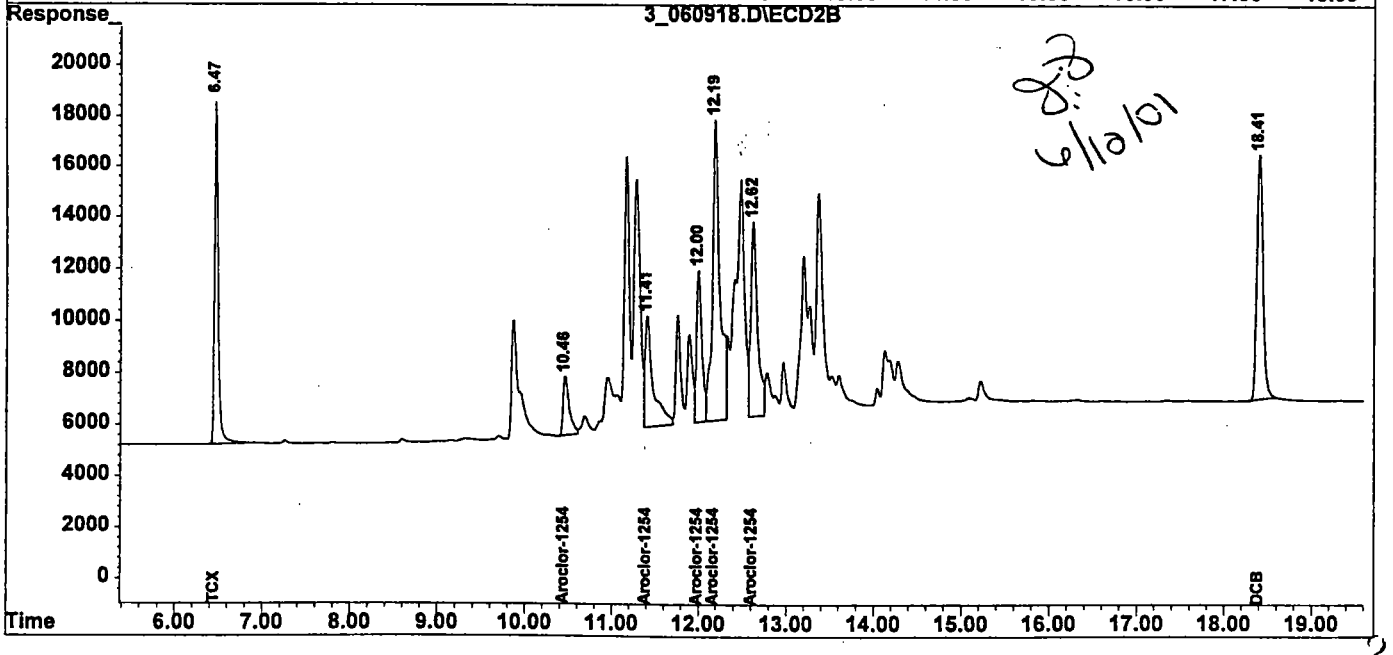
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060918.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060918.D\ECD2B.CH
Acq On : 09 Jun 2001 19:30 Operator: DDC
Sample : AR1254L43C Inst : HP_03
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:02 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/10/01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060919.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060919.D\ECD2B.CH
Acq On : 09 Jun 2001 19:55 Operator: DDC
Sample : AR1254L53C Inst : HP_03
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:02 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.44	6.47	2097598	822468	79.7	82.2 E
22)	S DCB	17.12	18.41	1659250	859485	69.3	70.7
	Target Compounds:						
12)	L6 Aroclor-1254	9.74	10.46	1252217	217478	1309.4	1556.4 E
13)	L6 Aroclor-1254 {2}	11.60	11.41	680120	397036	1574.2 E	1172.0 E#
14)	L6 Aroclor-1254 {3}	12.37	12.00	1446791	469226	1648.9 E	1499.2
	L6 Aroclor-1254 {4}	12.75	12.19	557422	1159583	1523.0 E	1707.7 E
	L6 Aroclor-1254 {5}	13.11	12.62	1940489	701071	1294.0	1386.9 E
	Sum Aroclor-1254			5877039	2944395	7349.5	7322.2
	Average Aroclor-1254					1469.899	1464.449

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29254 SDG E3099
Signature Michelle M. Williams
Date 06/12/01

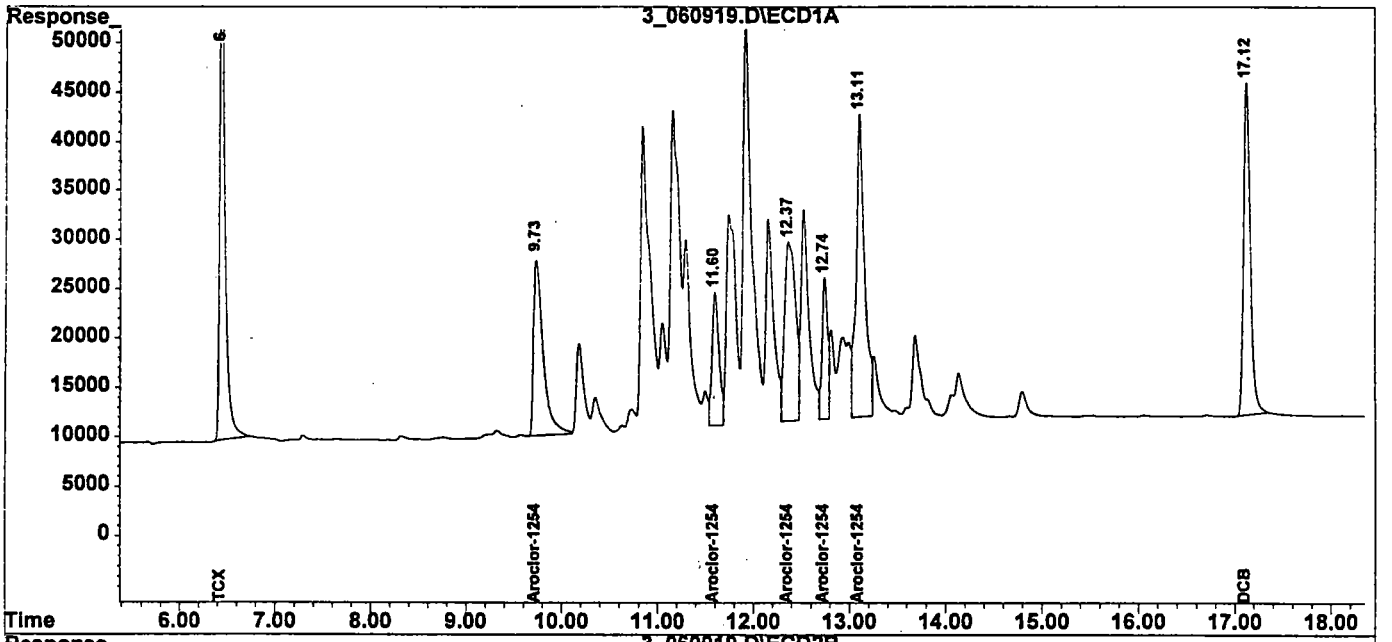
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

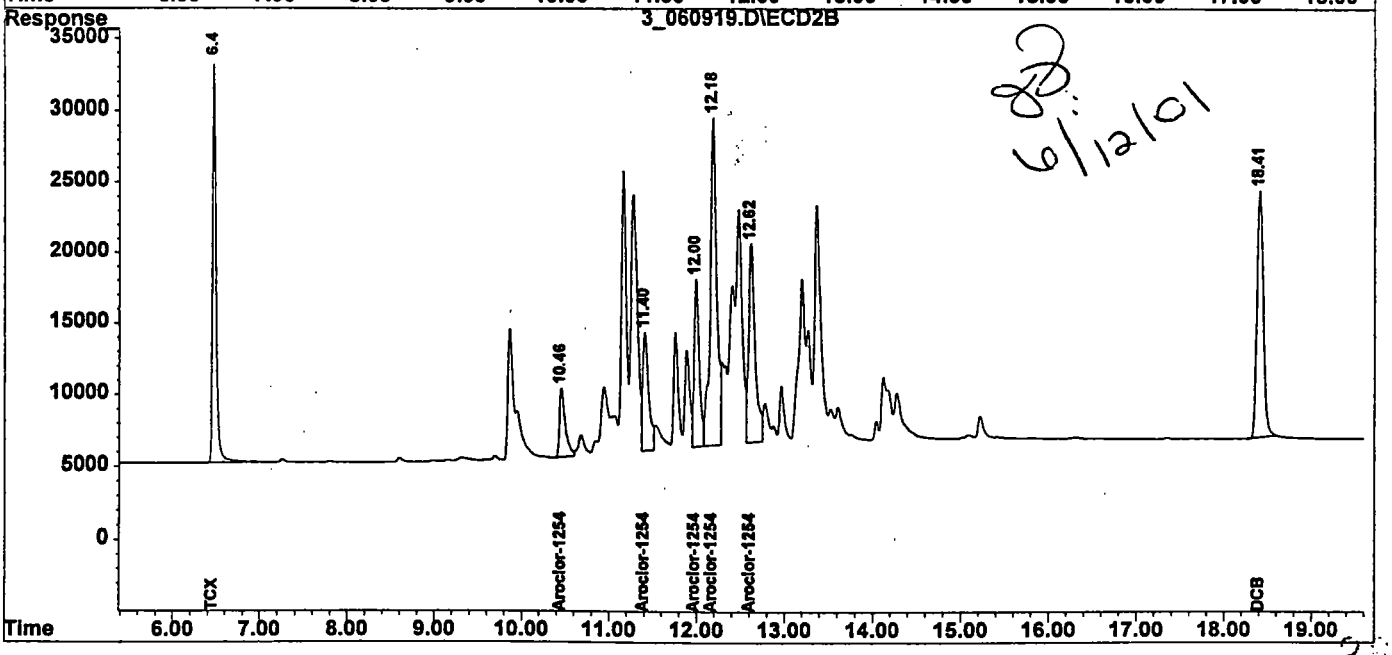
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060919.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060919.D\ECD2B.CH
Acq On : 09 Jun 2001 19:55 Operator: DDC
Sample : AR1254L53C Inst : HP_03
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:02 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

200

Response Factor Report HP_03

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Calibration Files
L1 =3_060920.D L2 =3_060921.D L3 =3_060922.D
L4 =3_060923.D L5 =3_060924.D

	Compound	L1	L2	L3	L4	L5	Avg		%RSD
1)	TCX	24.7	25.4	26.4	26.5	25.4	25.7	E3	2.93
2)	Aroclor-1016	367.2	398.1	418.5	411.7	390.0	397.1		5.06
3)	Aroclor-1016 {2}	1.0	1.2	1.2	1.1	1.0	1.1	E3	7.73
4)	Aroclor-1016 {3}	649.5	653.9	649.4	605.7	543.5	620.4		7.62
5)	Aroclor-1016 {4}	1.2	0.9	0.9	0.8	0.7	0.9	E3	19.82
6)	Aroclor-1016 {5}	1.1	1.1	1.0	1.0	0.9	1.0	E3	9.76
17)	Aroclor-1260	1.3	1.4	1.4	1.2	1.1	1.3	E3	8.40
18)	Aroclor-1260 {2}	1.2	1.3	1.4	1.3	1.2	1.3	E3	5.79
19)	Aroclor-1260 {3}	1.9	2.0	2.1	2.0	2.1	2.0	E3	4.98
20)	Aroclor-1260 {4}	657.4	688.1	728.4	677.5	674.8	685.2		3.87
21)	Aroclor-1260 {5}	1.5	1.6	1.7	1.6	1.6	1.6	E3	3.31
22)	DCB	23.0	23.7	25.2	22.6	22.0	23.3	E3	5.33

Signal #2 Calibration Files
L1 =3_060920.D L2 =3_060921.D L3 =3_060922.D
L4 =3_060923.D L5 =3_060924.D

	Compound	L1	L2	L3	L4	L5	Avg		%RSD
24)	TCX #2	9.2	9.6	10.0	10.3	10.0	9.8	E3	4.39
25)	Aroclor-1016 #2	156.3	173.0	181.5	180.3	159.8	170.2		6.82
26)	Aroclor-1016 {2} #2	506.7	526.6	529.1	501.7	455.0	503.8		5.92
27)	Aroclor-1016 {3} #2	197.7	217.9	230.1	225.0	209.1	216.0		5.98
28)	Aroclor-1016 {4} #2	323.1	365.4	400.8	391.8	376.3	371.5		8.16
29)	Aroclor-1016 {5} #2	247.3	264.0	284.9	266.0	244.9	261.4		6.20
40)	Aroclor-1260 #2	681.0	741.6	756.7	691.4	641.3	702.4		6.67
41)	Aroclor-1260 {2} #2	704.4	772.1	802.1	744.4	706.0	745.8		5.67
42)	Aroclor-1260 {3} #2	1.1	1.1	1.2	1.1	1.0	1.1	E3	4.35
43)	Aroclor-1260 {4} #2	442.7	468.1	501.1	472.7	476.6	472.2		4.42
44)	Aroclor-1260 {5} #2	1.1	1.1	1.2	1.1	1.1	1.1	E3	3.54
45)	DCB #2	11.6	11.9	12.8	11.5	11.4	11.9	E3	4.76

(#) = Out of Range

XPCBF09.M Sun Jun 10 09:09:55 2001

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3019
Signature [illegible]
Date 06/12/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060920.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060920.D\ECD2B.CH
Acq On : 09 Jun 2001 20:19 Operator: DDC
Sample : AR1660L13C Inst : HP_03
Misc : 5-31-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:08 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	123618	45874	4.697	4.585	
22)	S DCB	17.12	18.42	114836	57813	4.797	4.755	
	Target Compounds:							
2)	L1 Aroclor-1016	7.64	7.80	36720	15631	70.0	80.2	
3)	L1 Aroclor-1016 {2}	8.32	8.60	104140	50672	92.9	98.5	
4)	L1 Aroclor-1016 {3}	8.76	9.15	64947	19771	34.5	19.8	#
	L1 Aroclor-1016 {4}	9.57	9.88	116629	32306	172.4	101.0	#
	L1 Aroclor-1016 {5}	10.21	11.18	112875	24730	122.3	84.1	#
	Sum Aroclor-1016			435312	143110	492.1	383.6	
	Average Aroclor-1016					98.423	76.729	
17)	L7 Aroclor-1260	12.17	12.49	134988	68099	118.6	108.7	
18)	L7 Aroclor-1260 {2}	12.55	12.64	117798	70440	96.5	102.7	
19)	L7 Aroclor-1260 {3}	13.16	13.42	187247	107048	184.0	187.2	
20)	L7 Aroclor-1260 {4}	13.68	14.05	65739	44266	92.9	119.3	#
21)	L7 Aroclor-1260 {5}	14.15	14.29	154810	107574	93.4	102.4	
	Sum Aroclor-1260			660581	397426	585.4	620.3	
	Average Aroclor-1260					117.085	124.061	

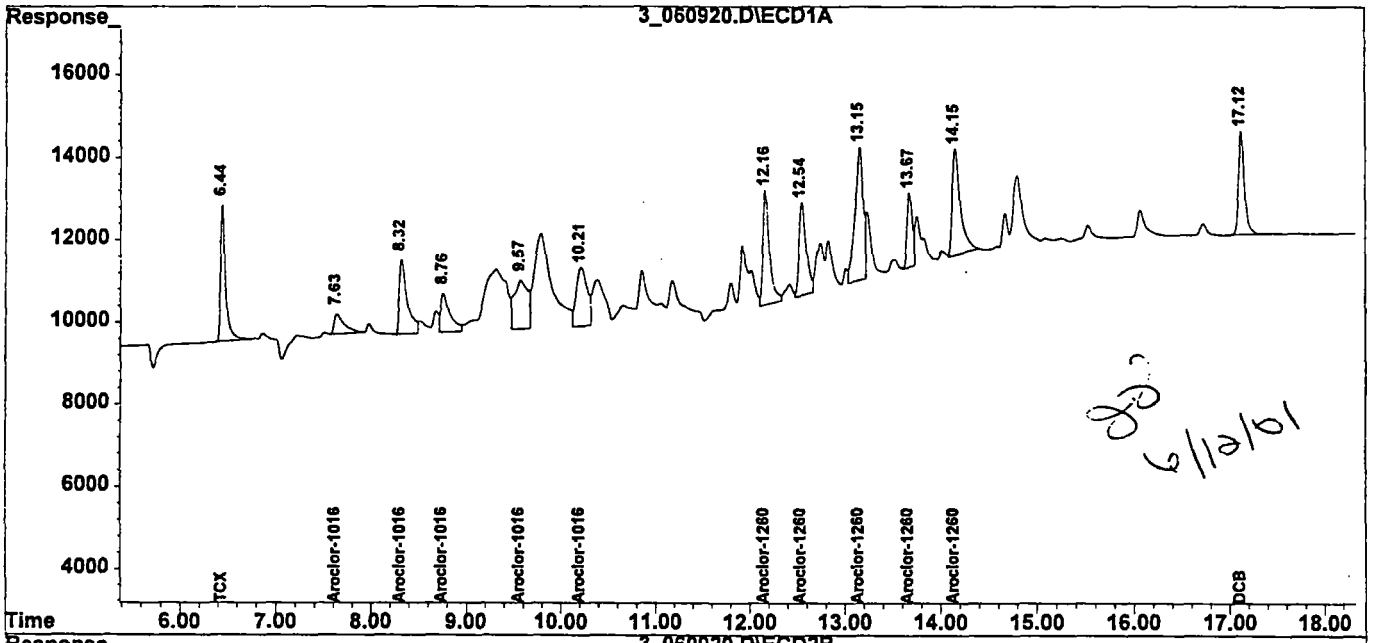
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

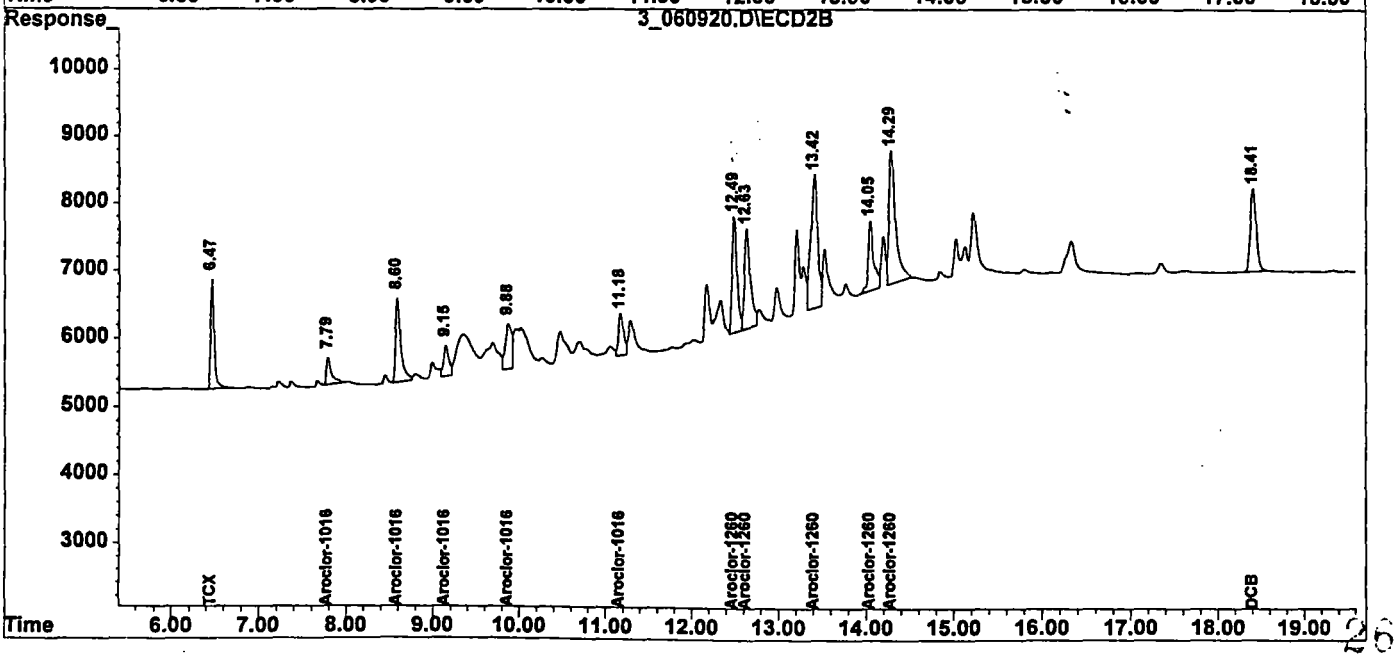
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060920.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060920.D\ECD2B.CH
Acq On : 09 Jun 2001 20:19 Operator: DDC
Sample : AR1660L13C Inst : HP_03
Misc : 5-31-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:08 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060921.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060921.D\ECD2B.CH
Acq On : 09 Jun 2001 20:44 Operator: DDC
Sample : AR1660L23C Inst : HP_03
Misc : 5-30-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:09 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	254246	96261	9.647	9.629	
22)	S DCB	17.13	18.42	237137	119398	10.0	9.954	
	Target Compounds:							
2)	L1 Aroclor-1016	7.64	7.80	79626	34600	162.1	182.8	
3)	L1 Aroclor-1016 {2}	8.32	8.60	240342	105326	219.6	208.1	
4)	L1 Aroclor-1016 {3}	8.76	9.15	130772	43579	79.6	52.5	#
	L1 Aroclor-1016 {4}	9.57	9.88	183078	73082	238.1	226.0	
	L1 Aroclor-1016 {5}	10.21	11.18	214693	52795	225.6	185.4	
	Sum Aroclor-1016			848510	309381	924.9	854.9	
	Average Aroclor-1016					184.988	170.972	
17)	L7 Aroclor-1260	12.16	12.49	270995	148313	235.3	235.1	
18)	L7 Aroclor-1260 {2}	12.55	12.63	258300	154418	216.5	225.4	
19)	L7 Aroclor-1260 {3}	13.16	13.42	401255	224762	346.3	339.4	
20)	L7 Aroclor-1260 {4}	13.68	14.05	137627	93625	199.3	243.5	
21)	L7 Aroclor-1260 {5}	14.15	14.29	320929	222352	197.2	211.0	
	Sum Aroclor-1260			1389106	843470	1194.6	1254.4	
	Average Aroclor-1260					238.924	250.889	

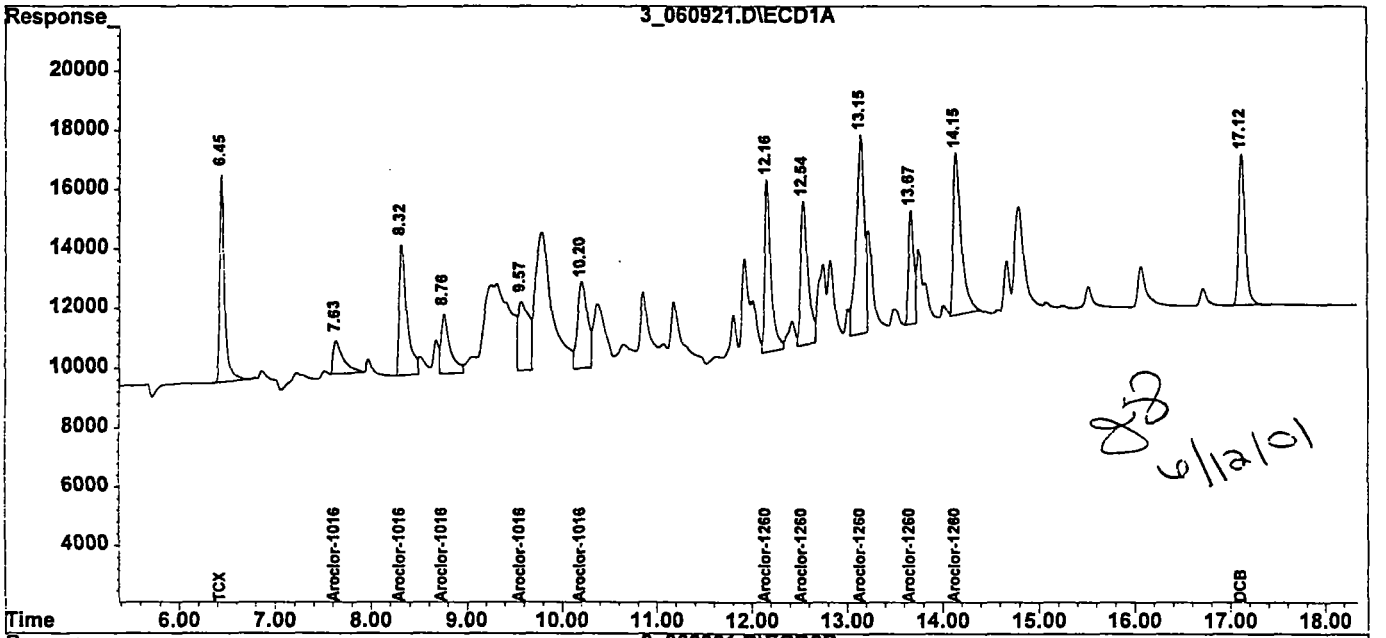
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

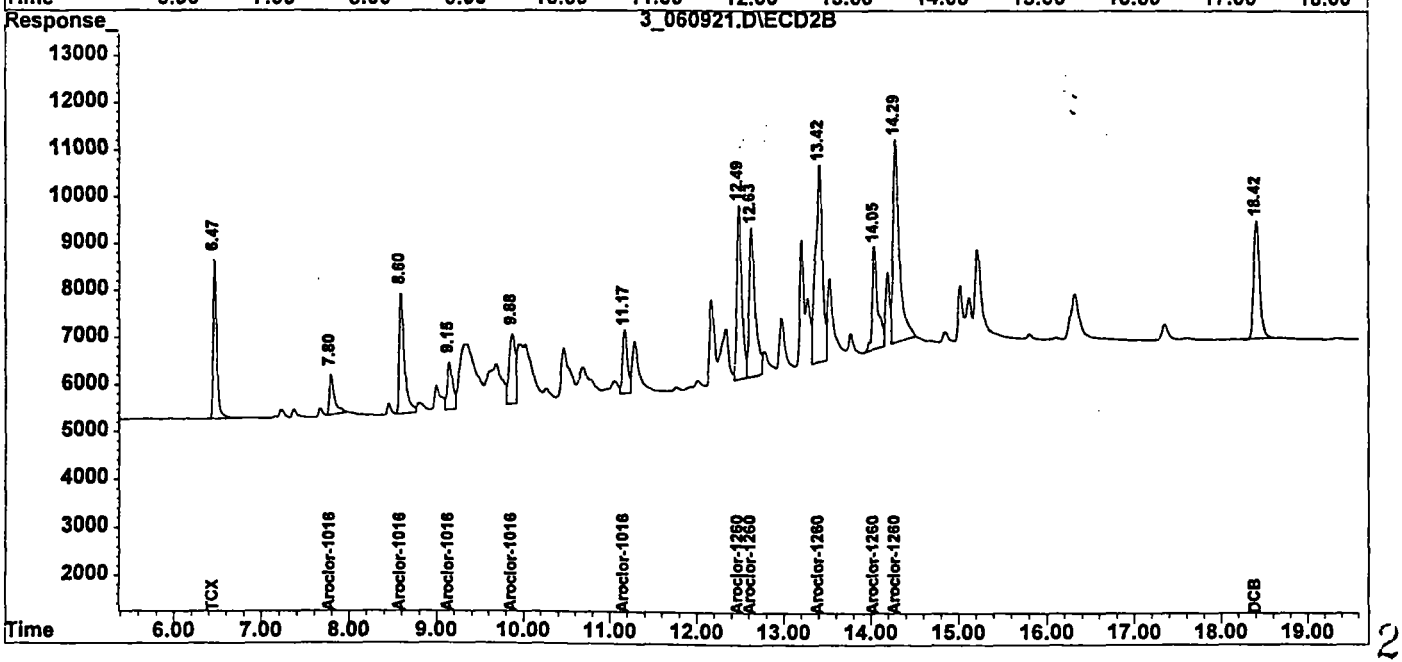
Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060921.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060921.D\ECD2B.CH
Acq On : 09 Jun 2001 20:44 Operator: DDC
Sample : AR1660L23C Inst : HP_03
Misc : 5-30-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:09 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B



8B 6/12/01



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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060922.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060922.D\ECD2B.CH
Acq On : 09 Jun 2001 21:09 Operator: DDC
Sample : AR1660L33V Inst : HP_03
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:09 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	527066	200177	20.5	20.6	
22)	S DCB	17.13	18.42	503825	255955	22.0	22.0	
	Target Compounds:							
2)	L1 Aroclor-1016	7.63	7.80	167398	72591	364.4	392.6	
3)	L1 Aroclor-1016 {2}	8.32	8.60	485629	211654	444.5	423.0	
4)	L1 Aroclor-1016 {3}	8.76	9.15	259762	92052	187.0	138.9	#
	L1 Aroclor-1016 {4}	9.58	9.88	347269	160327	427.8	484.2	
	L1 Aroclor-1016 {5}	10.20	11.17	419388	113953	431.1	410.9	
	Sum Aroclor-1016			1679446	650577	1854.8	1849.6	
	Average Aroclor-1016					370.954	369.927	
17)	L7 Aroclor-1260	12.16	12.49	546967	302661	462.7	468.8	
18)	L7 Aroclor-1260 {2}	12.54	12.63	544678	320834	452.2	461.5	
19)	L7 Aroclor-1260 {3}	13.15	13.42	850889	465034	632.6	604.9	
20)	L7 Aroclor-1260 {4}	13.67	14.05	291340	200438	426.3	498.7	
21)	L7 Aroclor-1260 {5}	14.15	14.29	678138	473762	419.8	443.5	
	Sum Aroclor-1260			2912012	1762728	2393.7	2477.5	
	Average Aroclor-1260					478.747	495.492	

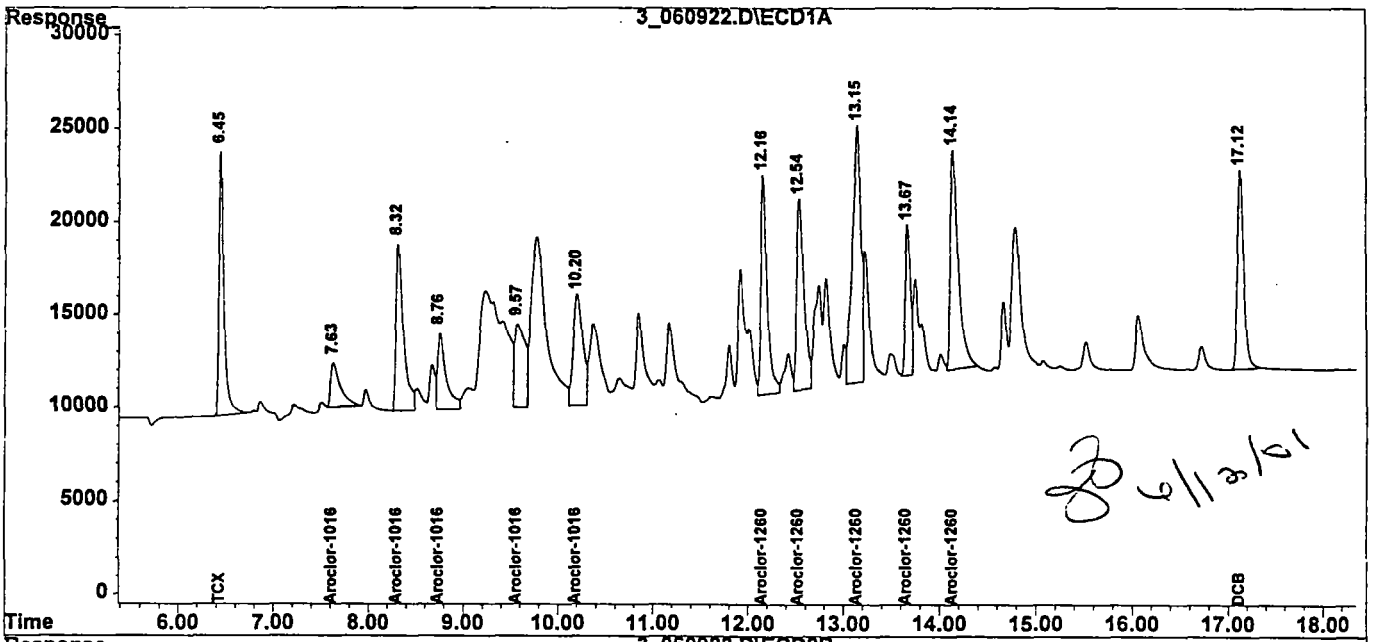
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060922.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060922.D\ECD2B.CH
Acq On : 09 Jun 2001 21:09 Operator: DDC
Sample : AR1660L33V Inst : HP_03
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:09 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B



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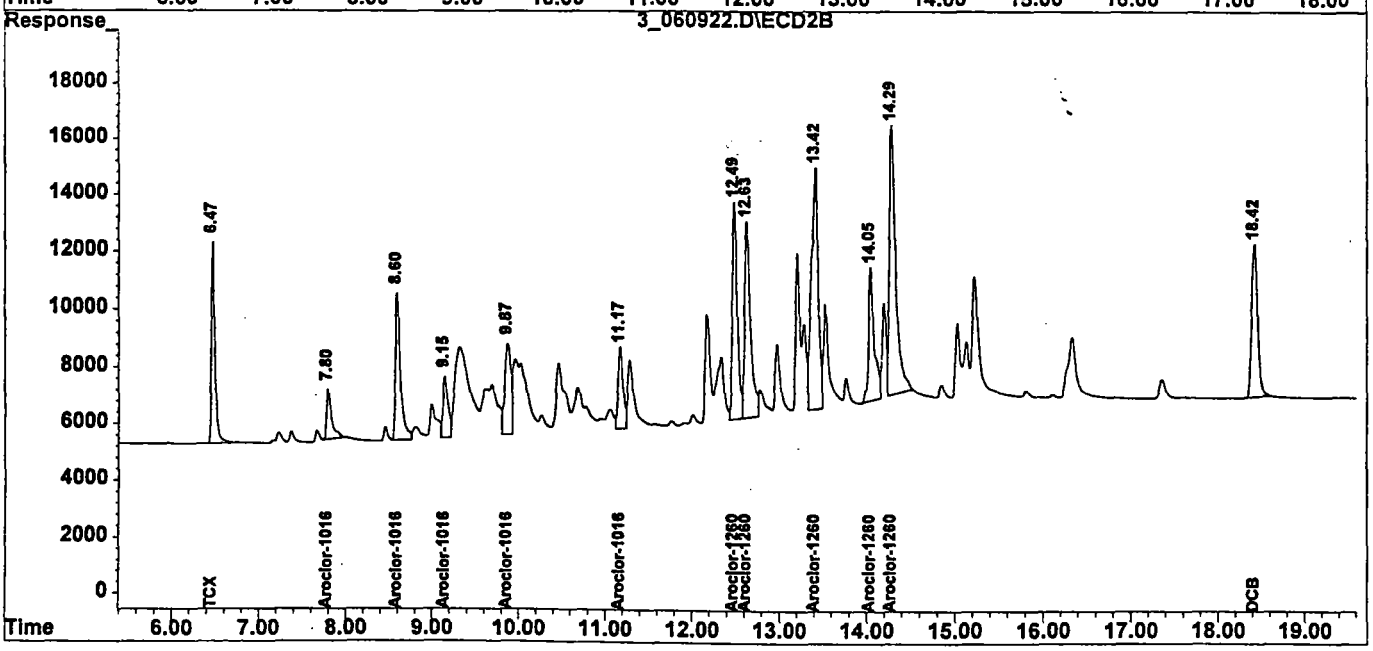

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060923.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060923.D\ECD2B.CH
Acq On : 09 Jun 2001 21:34 Operator: DDC
Sample : AR1660L43C Inst : HP_03
Misc : 5-28-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:09 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	1061700	411030	41.3	42.0
22)	S DCB	17.13	18.42	904370	461830	39.2	39.4
	Target Compounds:						
2)	L1 Aroclor-1016	7.63	7.80	329337	144258	758.8	805.7
3)	L1 Aroclor-1016 {2}	8.32	8.60	919569	401361	842.6	800.8
4)	L1 Aroclor-1016 {3}	8.76	9.15	484576	180033	428.0	356.1
	L1 Aroclor-1016 {4}	9.58	9.87	628025	313402	741.0	905.8
	L1 Aroclor-1016 {5}	10.20	11.17	766031	212800	767.8	772.2
	Sum Aroclor-1016			3127538	1251854	3538.2	3640.7
	Average Aroclor-1016					707.638	728.134
17)	L7 Aroclor-1260	12.16	12.49	971751	553158	788.6	824.9
18)	L7 Aroclor-1260 {2}	12.54	12.63	1003292	595518	816.8	829.6
19)	L7 Aroclor-1260 {3}	13.15	13.42	1591790	861250	1013.3 E	969.3 E
20)	L7 Aroclor-1260 {4}	13.67	14.05	542006	378174	786.2	882.6
21)	L7 Aroclor-1260 {5}	14.14	14.29	1276412	887220	785.6	807.0
	Sum Aroclor-1260			5385251	3275320	4190.5	4313.3
	Average Aroclor-1260					838.096	862.663

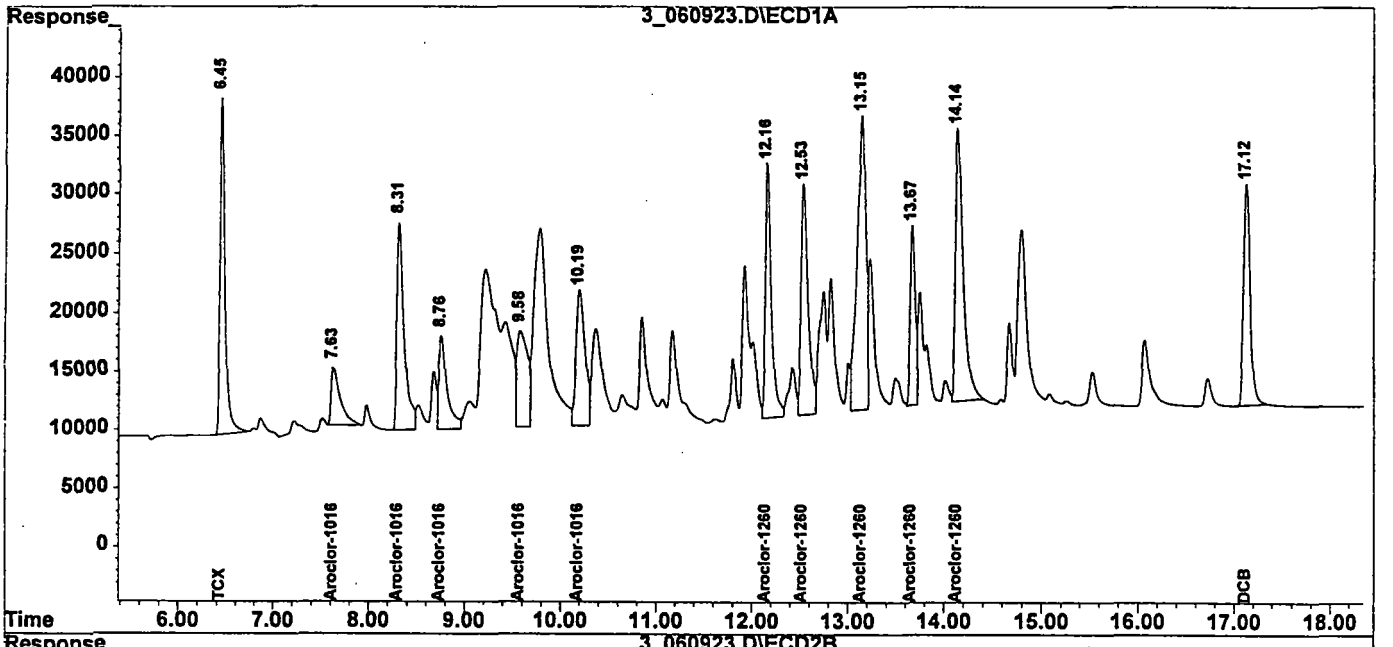
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

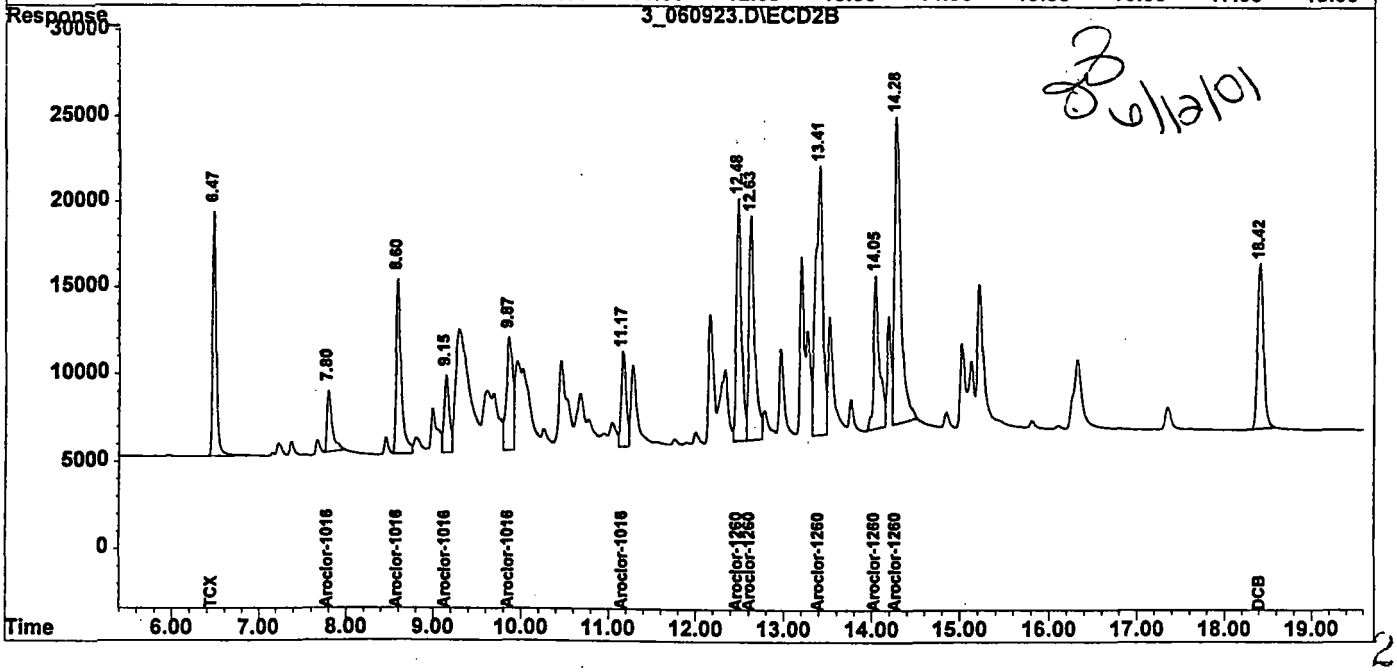
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060923.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060923.D\ECD2B.CH
Acq On : 09 Jun 2001 21:34 Operator: DDC
Sample : AR1660L43C Inst : HP_03
Misc : 5-28-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:09 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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\06_09_01\3_060924.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060924.D\ECD2B.CH
Acq On : 09 Jun 2001 21:58 Operator: DDC
Sample : AR1660L53C Inst : HP_03
Misc : 5-27-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:09 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	2029747	802878	78.5	81.3
22)	S DCB	17.13	18.42	1756128	912978	76.2 E	77.9 E
	Target Compounds:						
2)	L1 Aroclor-1016	7.62	7.80	623973	255651	1510.1	1459.8
3)	L1 Aroclor-1016 {2}	8.31	8.60	1648176	727931	1483.0 E	1448.1 E
4)	L1 Aroclor-1016 {3}	8.76	9.15	869603	334526	998.8	943.4
	L1 Aroclor-1016 {4}	9.58	9.87	1123418	602026	1288.5 E	1678.1 E#
	L1 Aroclor-1016 {5}	10.19	11.17	1405124	391843	1391.6 E	1454.9
	Sum Aroclor-1016			5670295	2311976	6672.0	6984.4
	Average Aroclor-1016					1334.390	1396.871
17)	L7 Aroclor-1260	12.16	12.48	1800046	1026154	1430.2 E	1493.6 E
18)	L7 Aroclor-1260 {2}	12.53	12.62	1926101	1129567	1548.9 E	1543.9 E
19)	L7 Aroclor-1260 {3}	13.15	13.42	3355859	1668322	1887.7 E	1679.2 E
20)	L7 Aroclor-1260 {4}	13.67	14.05	1079706	762494	1576.9 E	1696.2 E
21)	L7 Aroclor-1260 {5}	14.14	14.28	2578651	1793512	1599.9	1614.6 E
	Sum Aroclor-1260			10740363	6380049	8043.5	8027.5
	Average Aroclor-1260					1608.707	1605.498

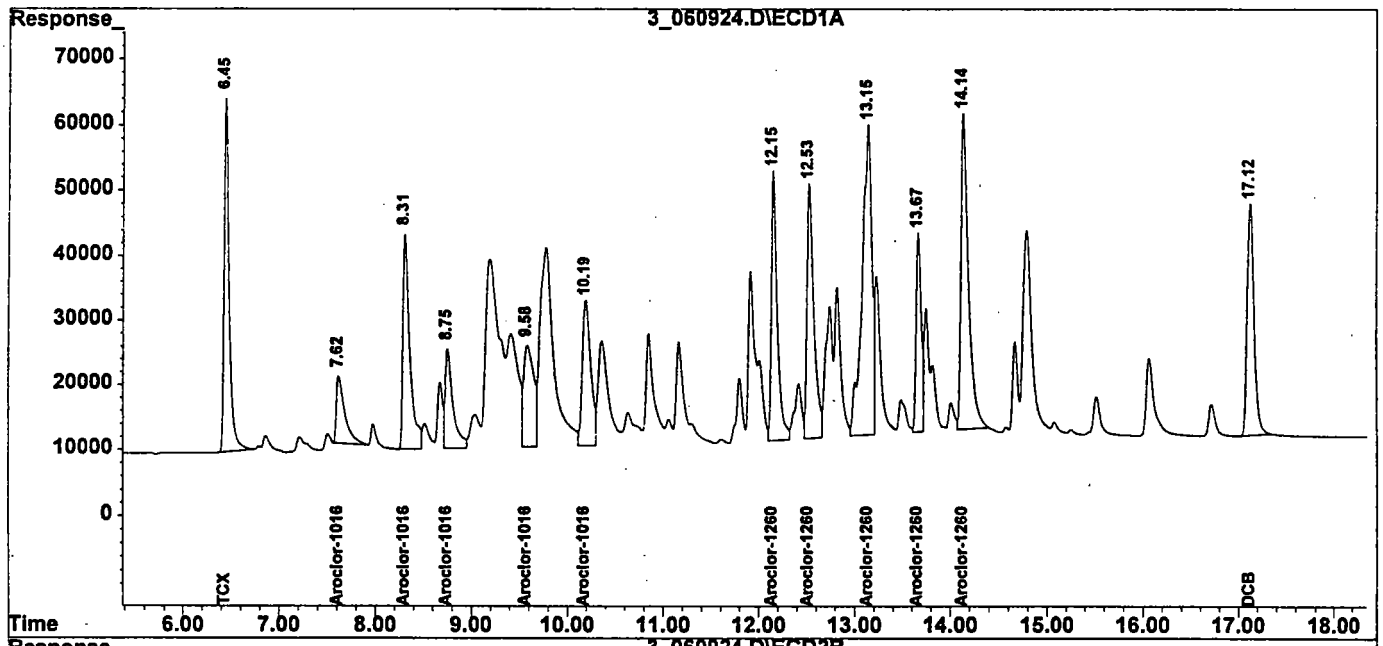
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

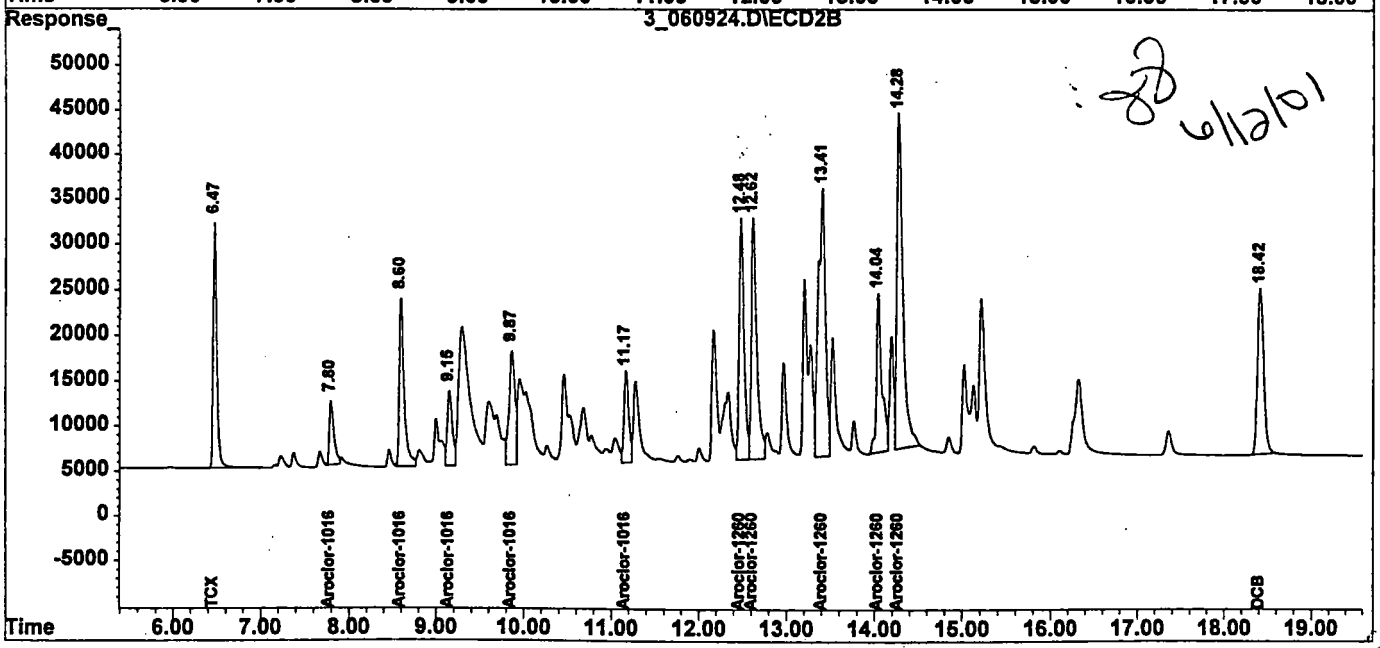
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060924.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060924.D\ECD2B.CH
Acq On : 09 Jun 2001 21:58 Operator: DDC
Sample : AR1660L53C Inst : HP_03
Misc : 5-27-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:09 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





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Continuing Calibration Report HP_03

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 09:14:33 2001
Response via : Initial Calibration

Continuing Calibration File: 3_060944.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	25.683	27.146	E3	-5.7	103
2	L1	Aroclor-1016	397.096	429.705		-8.2	103
3	L1	Aroclor-1016 {2}	1.127	1.249	E3	-10.8	103
4	L1	Aroclor-1016 {3}	620.391	599.276		3.4	92
5	L1	Aroclor-1016 {4}	0.887	0.716	E3	19.3#	82
6	L1	Aroclor-1016 {5}	1.017	0.893	E3	12.2	85
17	L7	Aroclor-1260	1.282	1.174	E3	8.5	86
18	L7	Aroclor-1260 {2}	1.258	1.177	E3	6.4	86
19	L7	Aroclor-1260 {3}	2.019	1.892	E3	6.3	89
20	L7	Aroclor-1260 {4}	685.240	631.212		7.9	87
21	L7	Aroclor-1260 {5}	1.611	1.583	E3	1.7	93
22	S	DCB	23.287	22.904	E3	1.6	91

Signal #2
Continuing Calibration File: 3_060944.D

		Compound	AvgRF	CCRF		%Dev	Area%
	S	TCX	9.824	10.537	E3	-7.3	105
2	L1	Aroclor-1016	170.178	188.472		-10.7	104
3	L1	Aroclor-1016 {2}	503.829	535.289		-6.2	101
4	L1	Aroclor-1016 {3}	215.971	232.321		-7.6	101
5	L1	Aroclor-1016 {4}	371.461	396.583		-6.8	99
6	L1	Aroclor-1016 {5}	261.411	246.624		5.7	87
17	L7	Aroclor-1260	702.400	689.539		1.8	91
18	L7	Aroclor-1260 {2}	745.791	731.055		2.0	91
19	L7	Aroclor-1260 {3}	1.095	1.037	E3	5.3	89
20	L7	Aroclor-1260 {4}	472.231	488.819		-3.5	98
21	L7	Aroclor-1260 {5}	1.120	1.109	E3	1.0	94
22	S	DCB	11.852	11.544	E3	2.6	90

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

3_060944.D XPCBF09.M Sun Jun 10 09:14:39 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060944.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060944.D\ECD2B.CH
Acq On : 10 Jun 2001 6:11 Operator: DDC
Sample : AR1660L33D Inst : HP_03
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:14 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.48	542922	210736	21.1	21.5	
22) S DCB	17.12	18.42	458085	230885	19.7	19.5	
Target Compounds:							
2) L1 Aroclor-1016	7.64	7.80	171882	75389	432.8	443.0	
3) L1 Aroclor-1016 {2}	8.32	8.60	499726	214116	443.3	425.0	
4) L1 Aroclor-1016 {3}	8.76	9.16	239710	92928	386.4	430.3	
L1 Aroclor-1016 {4}	9.58	9.88	286420	158633	322.8	427.1	#
L1 Aroclor-1016 {5}	10.20	11.17	357313	98649	351.2	377.4	
Sum Aroclor-1016			1555051	639715	1936.5	2102.7	
Average Aroclor-1016					387.302	420.536	
17) L7 Aroclor-1260	12.16	12.49	469402	275816	366.0	392.7	
18) L7 Aroclor-1260 {2}	12.53	12.63	470734	292422	374.2	392.1	
19) L7 Aroclor-1260 {3}	13.15	13.42	756768	414775	374.9	378.7	
20) L7 Aroclor-1260 {4}	13.67	14.05	252485	195527	368.5	414.1	
21) L7 Aroclor-1260 {5}	14.14	14.28	633370	443768	393.1	396.1	
Sum Aroclor-1260			2582758	1622308	1876.8	1973.6	
Average Aroclor-1260					375.355	394.725	

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3099
Signature [signature]
Date 6/12/01

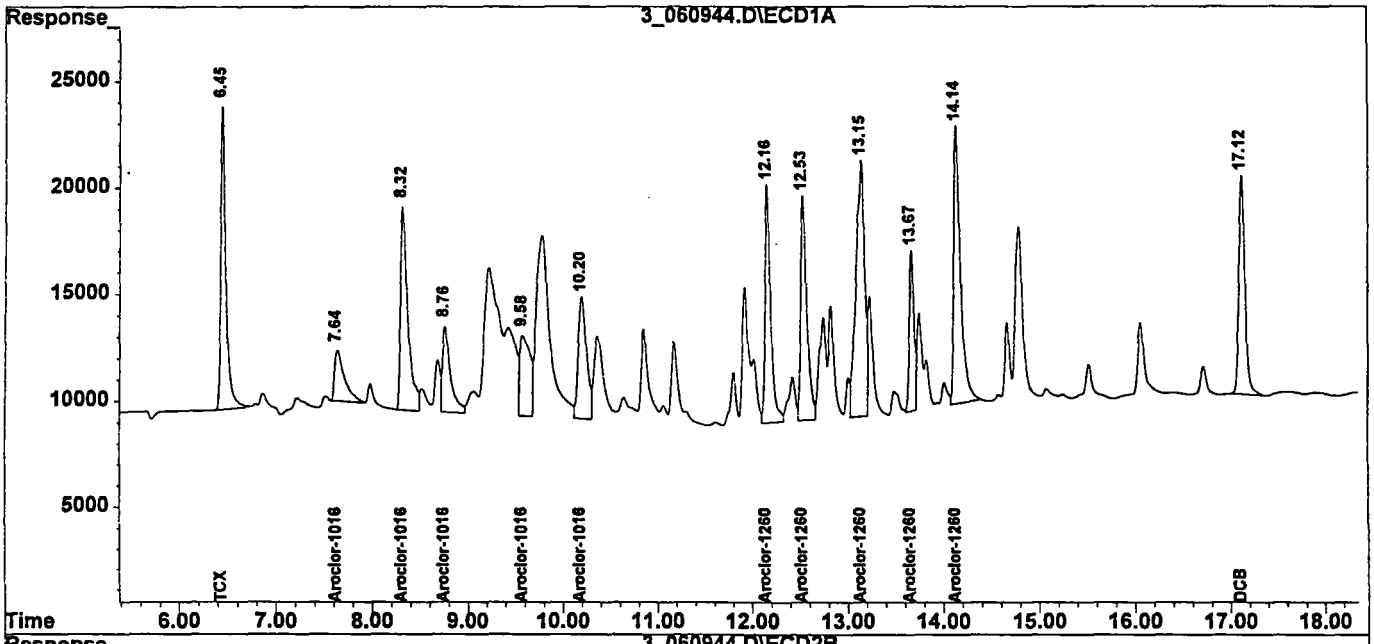
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

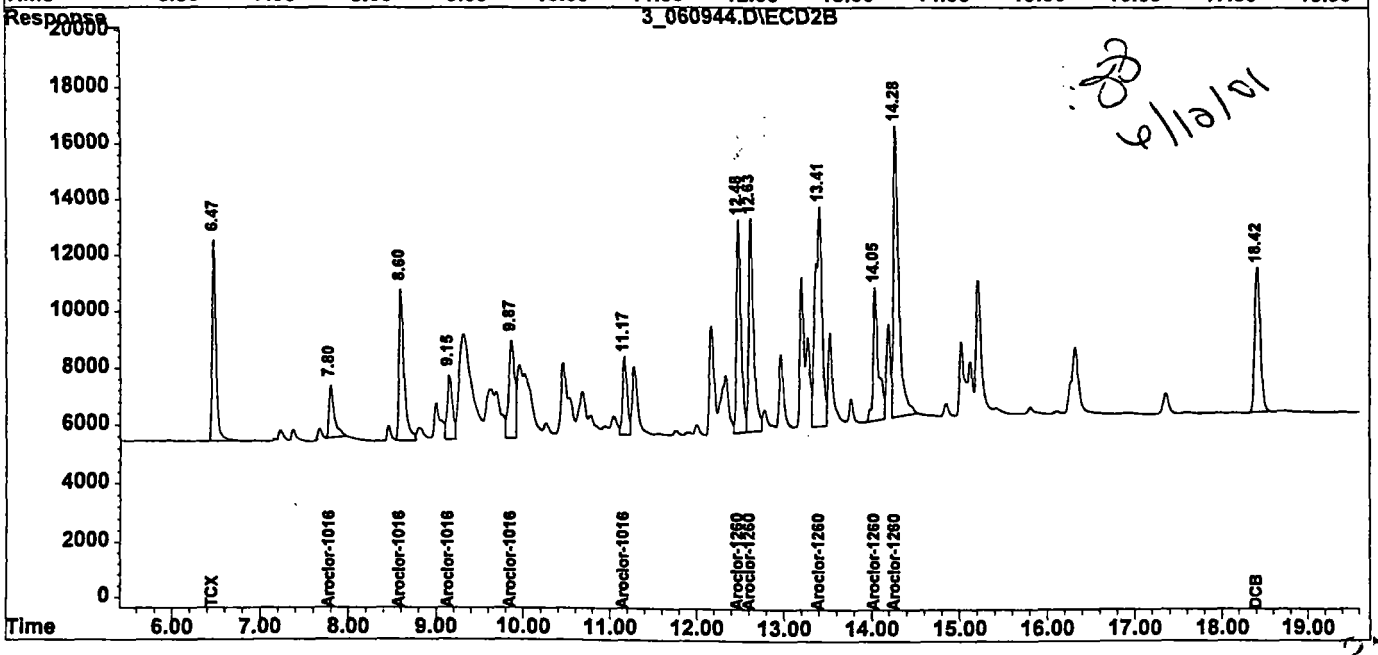
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060944.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060944.D\ECD2B.CH
Acq On : 10 Jun 2001 6:11 Operator: DDC
Sample : AR1660L33D Inst : HP_03
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:14 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

Continuing Calibration Report HP_03

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Mon Jun 11 10:31:12 2001
Response via : Initial Calibration

Continuing Calibration File: 3_060957.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	25.683	28.712	E3	-11.8	109
2	L1	Aroclor-1016	397.096	498.679		-25.6#	119
3	L1	Aroclor-1016 {2}	1.127	1.398	E3	-24.0#	115
4	L1	Aroclor-1016 {3}	620.391	750.391		-21.0#	116
5	L1	Aroclor-1016 {4}	0.887	0.877	E3	1.1	101
6	L1	Aroclor-1016 {5}	1.017	1.119	E3	-10.0	107
17	L7	Aroclor-1260	1.282	1.362	E3	-6.2	100
18	L7	Aroclor-1260 {2}	1.258	1.480	E3	-17.7#	109
19	L7	Aroclor-1260 {3}	2.019	2.373	E3	-17.6#	112
20	L7	Aroclor-1260 {4}	685.240	797.409		-16.4#	109
21	L7	Aroclor-1260 {5}	1.611	1.984	E3	-23.2#	117
22	S	DCB	23.287	28.157	E3	-20.9#	112

Signal #2
Continuing Calibration File: 3_060957.D

		Compound	AvgRF	CCRF		%Dev	Area%
	S	TCX	9.824	11.062	E3	-12.6	111
2	L1	Aroclor-1016	170.178	237.350		-39.5#	131
3	L1	Aroclor-1016 {2}	503.829	586.719		-16.5#	111
4	L1	Aroclor-1016 {3}	215.971	254.766		-18.0#	111
5	L1	Aroclor-1016 {4}	371.461	439.979		-18.4#	110
6	L1	Aroclor-1016 {5}	261.411	294.293		-12.6	103
17	L7	Aroclor-1260	702.400	827.900		-17.9#	109
18	L7	Aroclor-1260 {2}	745.791	882.190		-18.3#	110
19	L7	Aroclor-1260 {3}	1.095	0.869	E3	20.6#	75
20	L7	Aroclor-1260 {4}	472.231	591.994		-25.4#	118
21	L7	Aroclor-1260 {5}	1.120	1.372	E3	-22.4#	116
22	S	DCB	11.852	14.643	E3	-23.6#	114

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

3_060957.D XPCBF09.M Mon Jun 11 10:31:17 2001

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3077
Signature
Date 6/12/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060957.D\ECD1A.CH Vial: 57
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060957.D\ECD2B.CH
Acq On : 10 Jun 2001 11:32 Operator: DDC
Sample : AR1660L33F Inst : HP_03
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 11 10:31 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	574235	221231	22.4	22.5	
22)	S DCB	17.12	18.42	563137	292862	24.2	24.7	
	Target Compounds:							
2)	L1 Aroclor-1016	7.64	7.80	199472	94940	502.3	557.9	
3)	L1 Aroclor-1016 {2}	8.32	8.60	559035	234688	495.9	465.8	
4)	L1 Aroclor-1016 {3}	8.76	9.16	300156	101906	483.8	471.9	
	L1 Aroclor-1016 {4}	9.58	9.88	350982	175992	395.5	473.8	
	L1 Aroclor-1016 {5}	10.20	11.17	447550	117717	439.9	450.3	
	Sum Aroclor-1016			1857195	725243	2317.5	2419.6	
	Average Aroclor-1016					463.498	483.928	
17)	L7 Aroclor-1260	12.16	12.49	544900	331160	424.9	471.5	
18)	L7 Aroclor-1260 {2}	12.53	12.63	592050	352876	470.7	473.2	
19)	L7 Aroclor-1260 {3}	13.15	13.42	949335	347686	470.3	317.5	#
20)	L7 Aroclor-1260 {4}	13.67	14.05	318964	236798	465.5	501.4	
21)	L7 Aroclor-1260 {5}	14.14	14.28	793615	548618	492.6	489.7	
	Sum Aroclor-1260			3198864	1817138	2324.0	2253.2	
	Average Aroclor-1260					464.795	450.640	

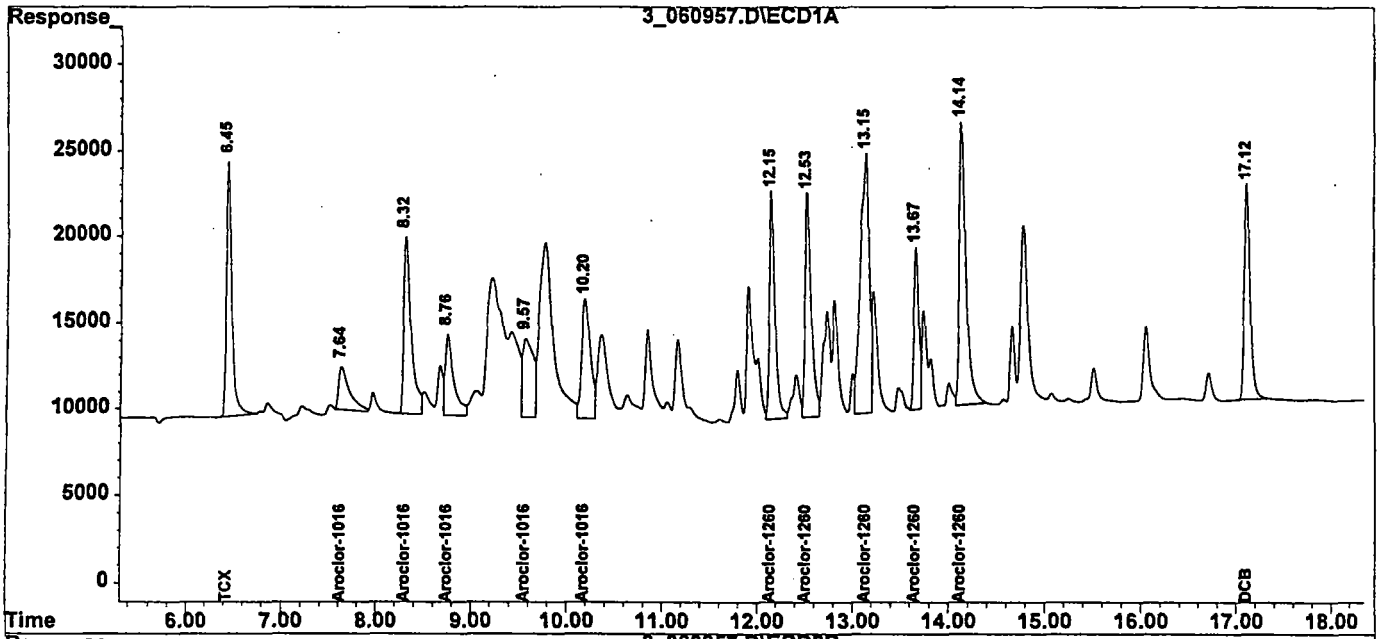
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

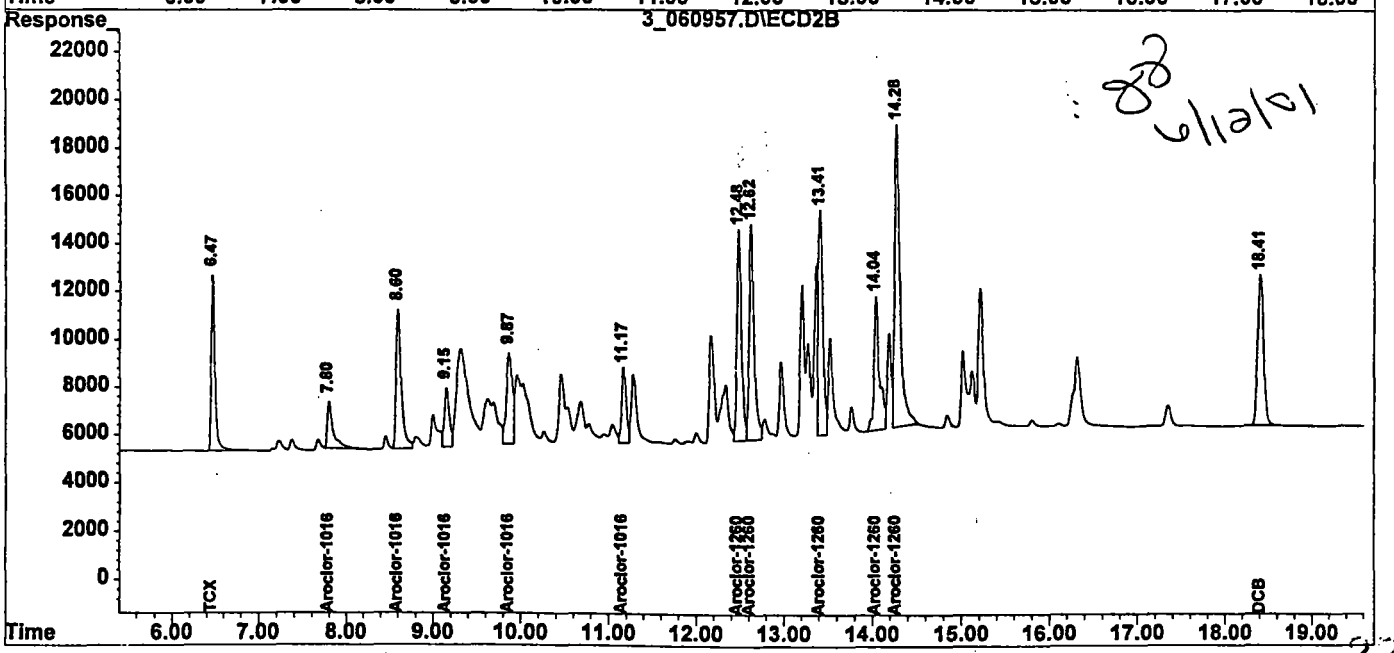
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060957.D\ECD1A.CH Vial: 57
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060957.D\ECD2B.CH
Acq On : 10 Jun 2001 11:32 Operator: DDC
Sample : AR1660L33F Inst : HP_03
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 11 10:31 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





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Continuing Calibration Report HP_03

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Mon Jun 11 10:30:23 2001
Response via : Initial Calibration

Continuing Calibration File: 3_060958.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	25.683	27.763	E3	-8.1	105
2	L1	Aroclor-1016	397.096	460.750		-16.0#	110
3	L1	Aroclor-1016 {2}	1.127	1.302	E3	-15.5#	107
4	L1	Aroclor-1016 {3}	620.391	693.705		-11.8	107
5	L1	Aroclor-1016 {4}	0.887	0.843	E3	5.0	97
6	L1	Aroclor-1016 {5}	1.017	1.067	E3	-4.9	102
17	L7	Aroclor-1260	1.282	1.274	E3	0.6	93
18	L7	Aroclor-1260 {2}	1.258	1.363	E3	-8.4	100
19	L7	Aroclor-1260 {3}	2.019	2.199	E3	-9.0	103
20	L7	Aroclor-1260 {4}	685.240	745.098		-8.7	102
21	L7	Aroclor-1260 {5}	1.611	1.827	E3	-13.4	108
22	S	DCB	23.287	25.943	E3	-11.4	103

Signal #2
Continuing Calibration File: 3_060958.D

		Compound	AvgRF	CCRF		%Dev	Area%
	S	TCX	9.824	10.329	E3	-5.1	103
2	L1	Aroclor-1016	170.178	221.433		-30.1#	122
3	L1	Aroclor-1016 {2}	503.829	553.995		-10.0	105
4	L1	Aroclor-1016 {3}	215.971	241.924		-12.0	105
5	L1	Aroclor-1016 {4}	371.461	411.433		-10.8	103
6	L1	Aroclor-1016 {5}	261.411	278.736		-6.6	98
17	L7	Aroclor-1260	702.400	784.597		-11.7	104
18	L7	Aroclor-1260 {2}	745.791	827.976		-11.0	103
19	L7	Aroclor-1260 {3}	1.095	0.824	E3	24.8#	71
20	L7	Aroclor-1260 {4}	472.231	443.858		6.0	89
21	L7	Aroclor-1260 {5}	1.120	1.272	E3	-13.5	107
22	S	DCB	11.852	13.505	E3	-14.0	106

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

3_060958.D XPCBF09.M Mon Jun 11 10:30:29 2001

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29394 SDG E3079
Signature [signature]
Date 6/12/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060958.D\ECD1A.CH Vial: 58
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060958.D\ECD2B.CH
Acq On : 10 Jun 2001 11:57 Operator: DDC
Sample : AR1660L33G Inst : HP_03
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 11 10:30 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	555266	206589	21.6	21.0	
22)	S DCB	17.12	18.41	518850	270101	22.3	22.8	
	Target Compounds:							
2)	L1 Aroclor-1016	7.64	7.80	184300	88573	464.1	520.5	
3)	L1 Aroclor-1016 {2}	8.32	8.60	520614	221598	461.8	439.8	
4)	L1 Aroclor-1016 {3}	8.76	9.16	277482	96770	447.3	448.1	
	L1 Aroclor-1016 {4}	9.58	9.88	337304	164573	380.1	443.0	
	L1 Aroclor-1016 {5}	10.20	11.17	426671	111494	419.4	426.5	
	Sum Aroclor-1016			1746372	683008	2172.7	2277.9	
	Average Aroclor-1016					434.543	455.584	
17)	L7 Aroclor-1260	12.16	12.49	509637	313839	397.4	446.8	
18)	L7 Aroclor-1260 {2}	12.53	12.63	545259	331190	433.5	444.1	
19)	L7 Aroclor-1260 {3}	13.15	13.41	879727	329412	435.8	300.8	#
20)	L7 Aroclor-1260 {4}	13.67	14.05	298039	177543	434.9	376.0	
21)	L7 Aroclor-1260 {5}	14.14	14.28	730772	508748	453.6	454.1	
	Sum Aroclor-1260			2963434	1660732	2155.3	2021.7	
	Average Aroclor-1260					431.050	404.343	

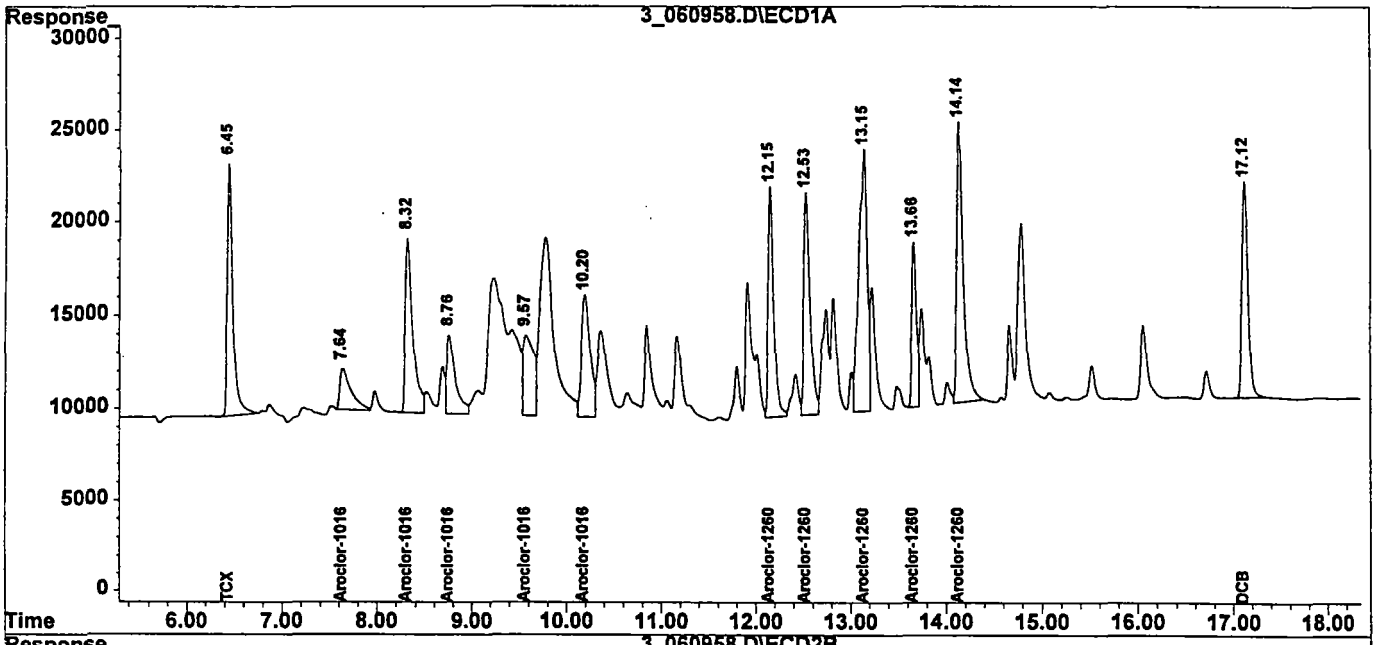
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

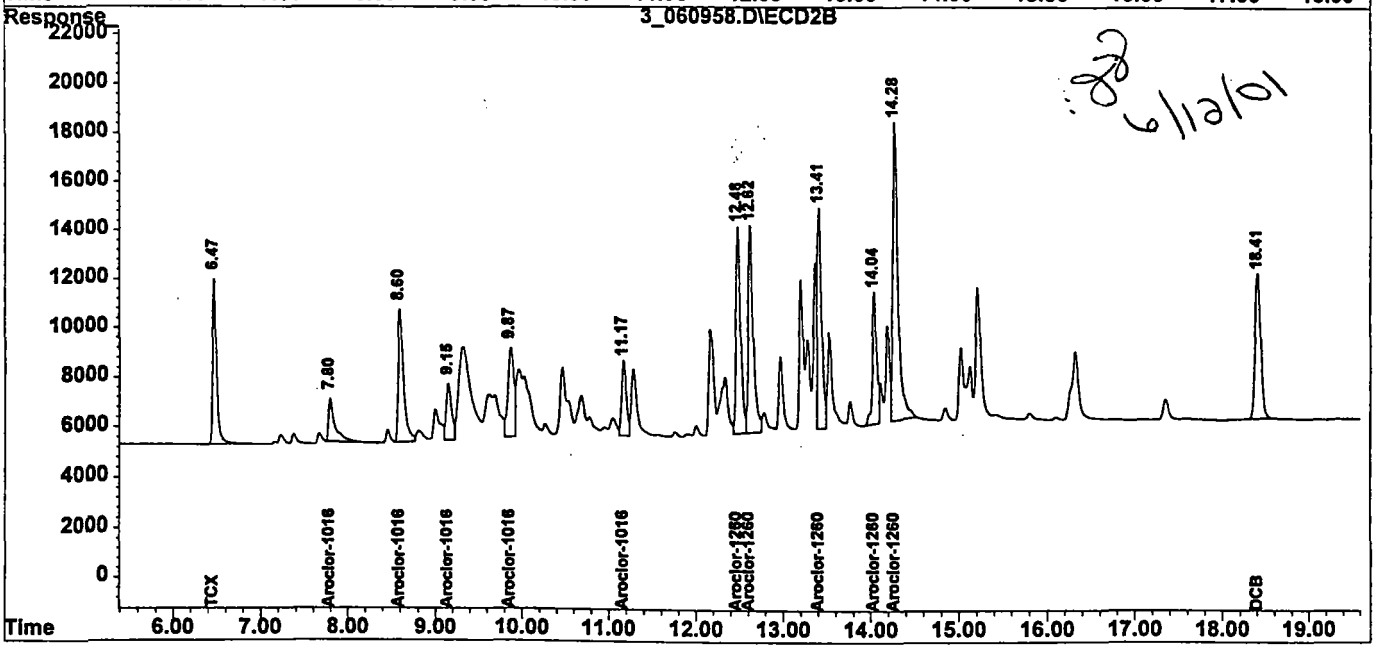
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060958.D\ECD1A.CH Vial: 58
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060958.D\ECD2B.CH
Acq On : 10 Jun 2001 11:57 Operator: DDC
Sample : AR1660L33G Inst : HP_03
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 11 10:30 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKSE

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: BL0601SE

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

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

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

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

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060657.D\ECD1A.CH Vial: 51
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060657.D\ECD2B.CH
Acq On : 07 Jun 2001 17:24 Operator: DDC
Sample : BL0601SE *PBLKSE * Inst : HP_03
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 13:27 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.44	6.47	340116	131185	4.807	4.703
	Spiked Amount 6.667			Recovery	=	72.11%	70.55%
22)	S DCB	17.11f	18.39f	490991	253371	6.231	6.311
	Spiked Amount 6.667			Recovery	=	93.47%	94.67%

Target Compounds:

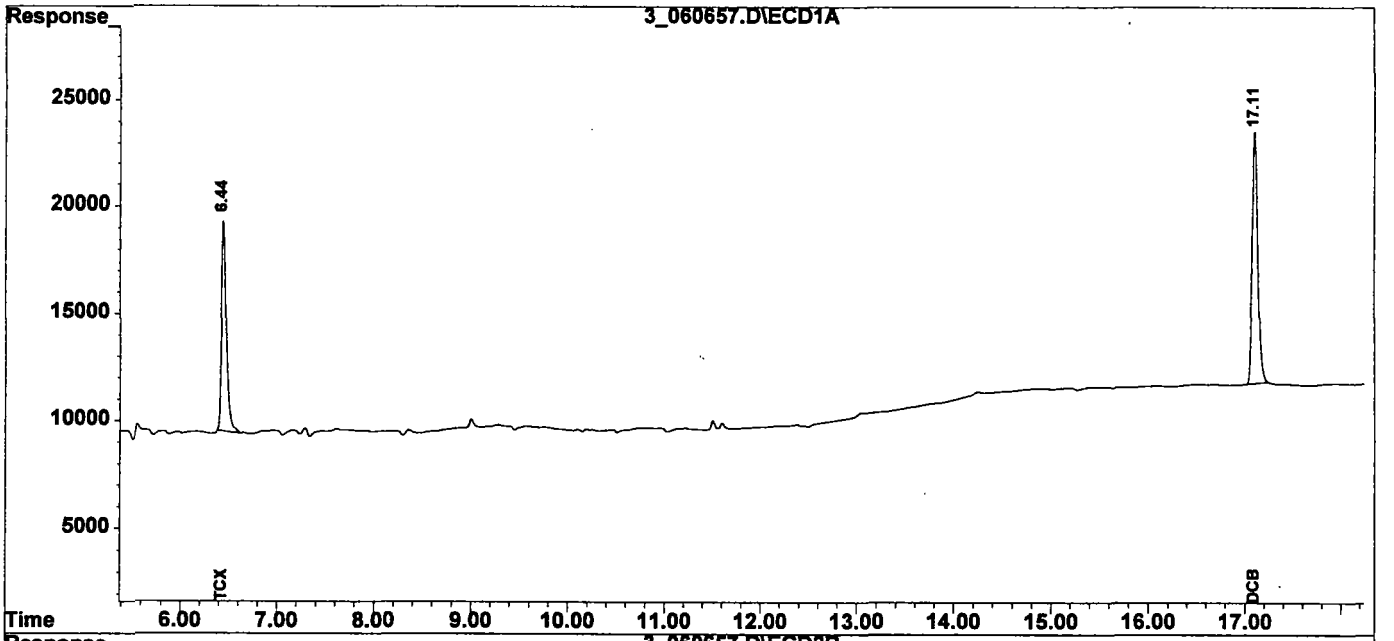
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

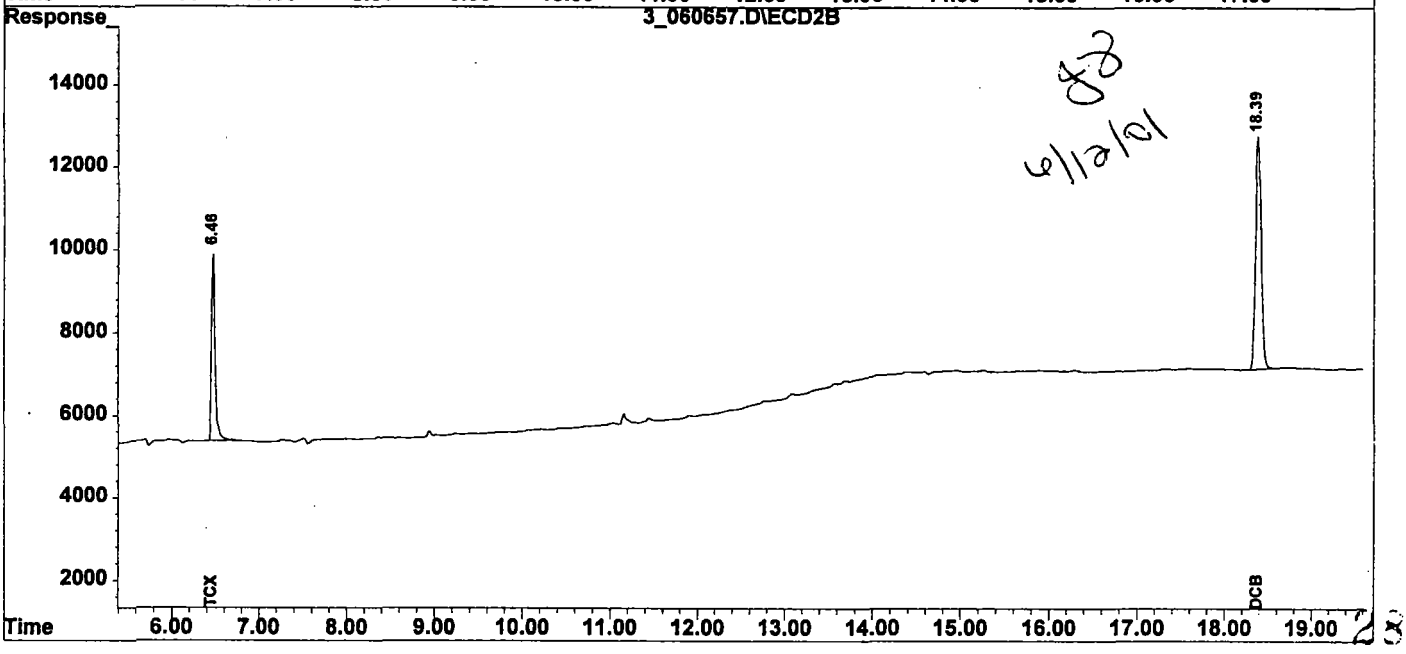
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060657.D\ECD1A.CH Vial: 51
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060657.D\ECD2B.CH
Acq On : 07 Jun 2001 17:24 Operator: DDC
Sample : BL0601SE *PBLKSE * Inst : HP_03
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 13:27 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

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1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKSS

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: BB0601SS

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

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

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

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/10/01

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	

Quantitation Report

Data File : F:\HPCHEM\HP\3\DATA\06_09_01\3_060932.D\ECD1A.CH Vial: 32
Acq On : 10 Jun 2001 1:15 Operator: DDC
Sample : BB0601SE *PBLKSE * Inst : HP_03
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile : events.e

S

Data File : F:\HPCHEM\HP\3\DATA\06_09_01\3_060932.D\ECD2B.CH Vial: 32
Acq On : 10 Jun 2001 1:15 Operator: DDC
Sample : BB0601SE Inst : HP_03
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 10 9:47 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	491600	194711	6.380	6.606
	Spiked Amount 6.667			Recovery	=	95.70%	99.09%
2	S DCB	17.12	18.41	579833	298680	8.300	8.401
	Spiked Amount 6.667			Recovery	=	124.50%	126.02%

Target Compounds:

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

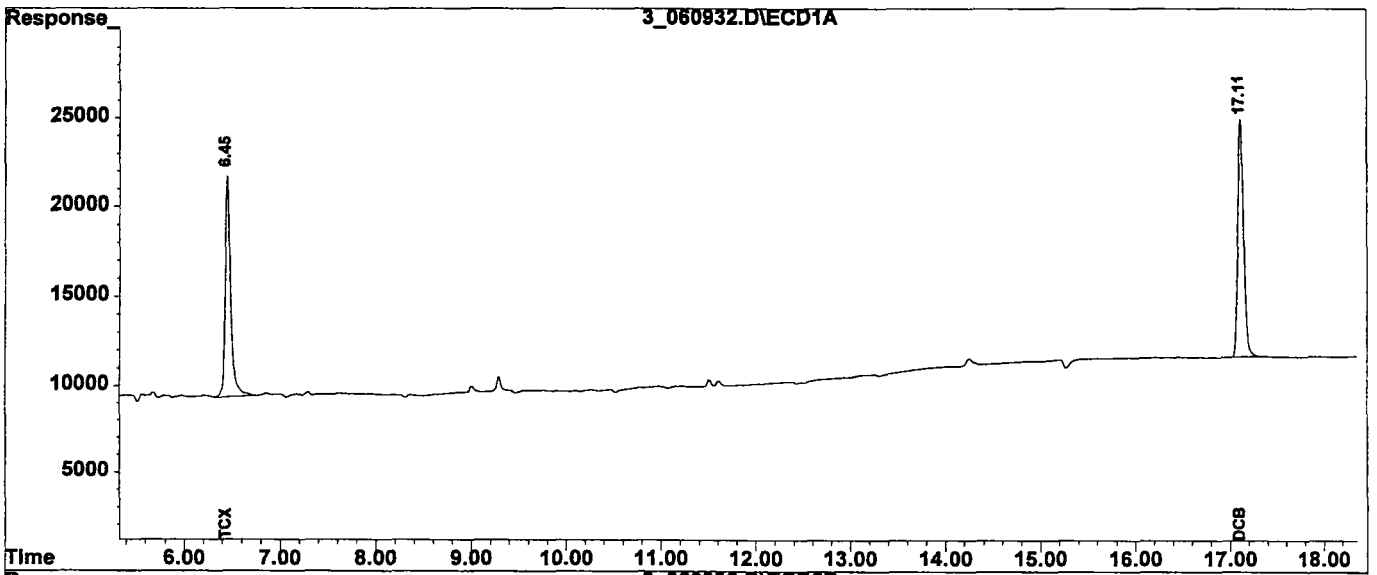
Chromatographic Report

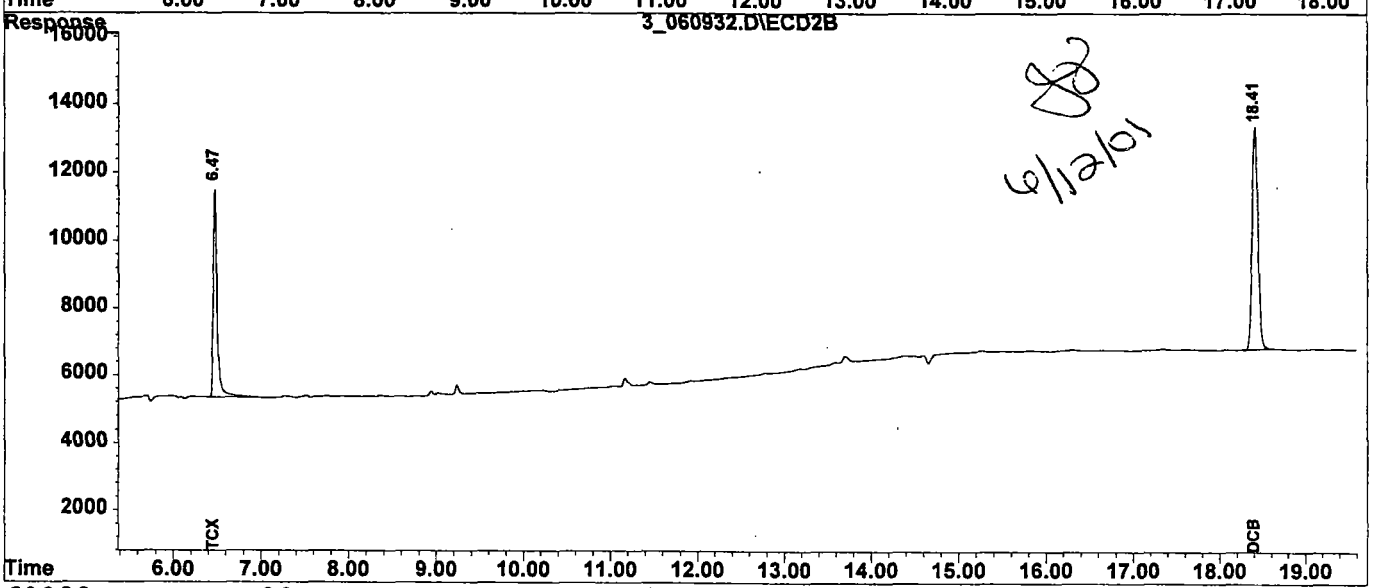
Data File : F:\HPCHEM\HP\3\DATA\06_09_01\3_060932.D\ECD1A.CH Vial: 32
Acq On : 10 Jun 2001 1:15 Operator: DDC
Sample : BB0601SE *PBLKSE * Inst : HP_03
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\3\DATA\06_09_01\3_060932.D\ECD2B.CH Vial: 32
Acq On : 10 Jun 2001 1:15 Operator: DDC
Sample : BB0601SE Inst : HP_03
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 10 9:47 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

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1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKK

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/02/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKK

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/02/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060225.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060225.D\ECD2B.CH
Acq On : 02 Jun 2001 21:45 Operator: DDC
Sample : PIBLKK Inst : HP_03
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 10:02 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	564806	221473	23.9	23.8
22)	S DCB	17.14	18.42	672159	345261	25.6	25.8

Target Compounds:

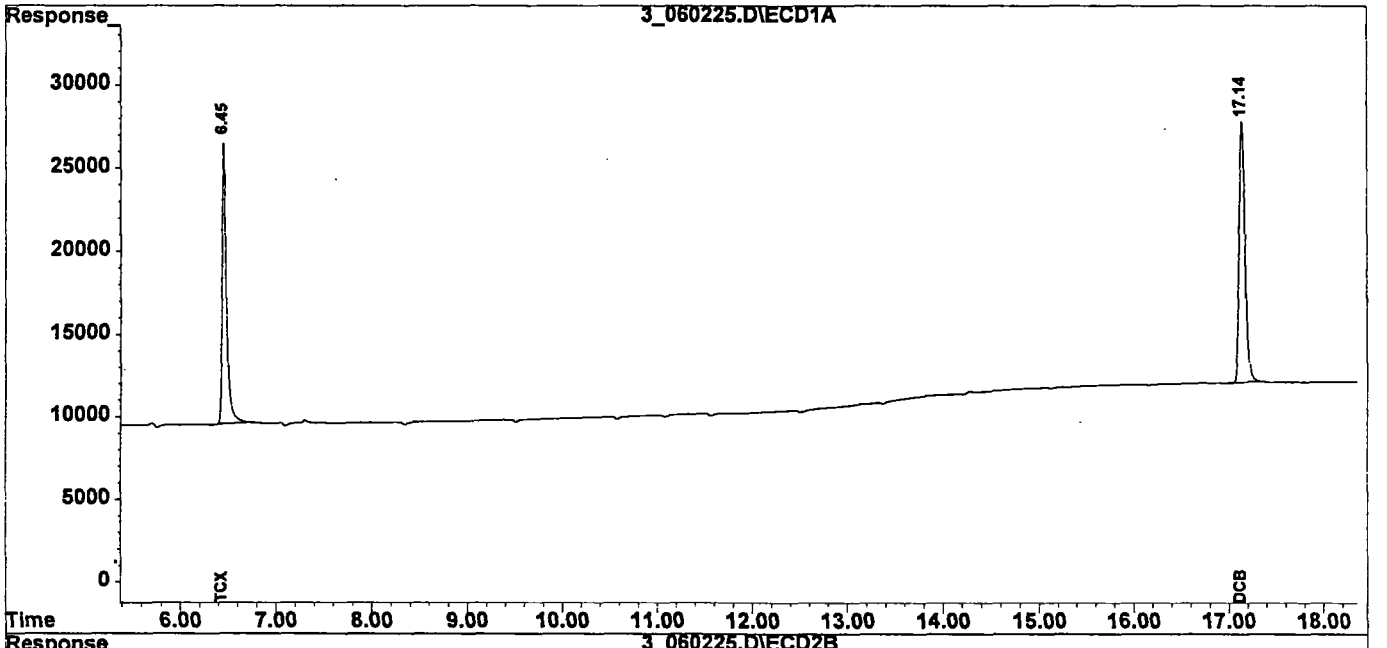
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

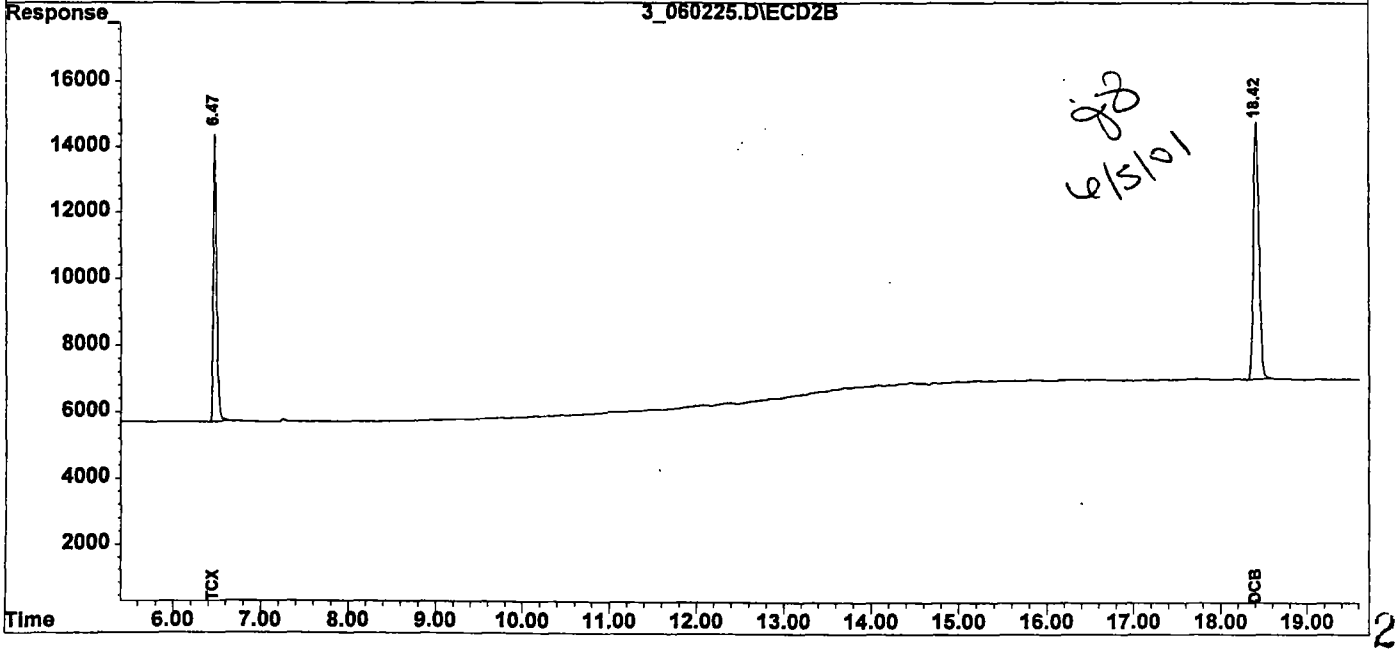
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060225.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\3\DATA\06_02_01\3_060225.D\ECD2B.CH
Acq On : 02 Jun 2001 21:45 Operator: DDC
Sample : PIBLKK Inst : HP_03
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 3 10:02 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_02_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Wed May 30 09:35:39 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/5/01

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1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

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

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

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

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060652.D\ECD1A.CH Vial: 46
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060652.D\ECD2B.CH
Acq On : 07 Jun 2001 15:20 Operator: DDC
Sample : PIBLKAL Inst : HP_03
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 7 16:10 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Sat Jun 09 10:32:16 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.44	6.47	655275	237887	27.8	25.6
22)	S DCB	17.12	18.40	704189	373674	26.8	27.9
	Target Compounds:						

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3099
Signature Arnelda M. Wilson
Date 06/12/01

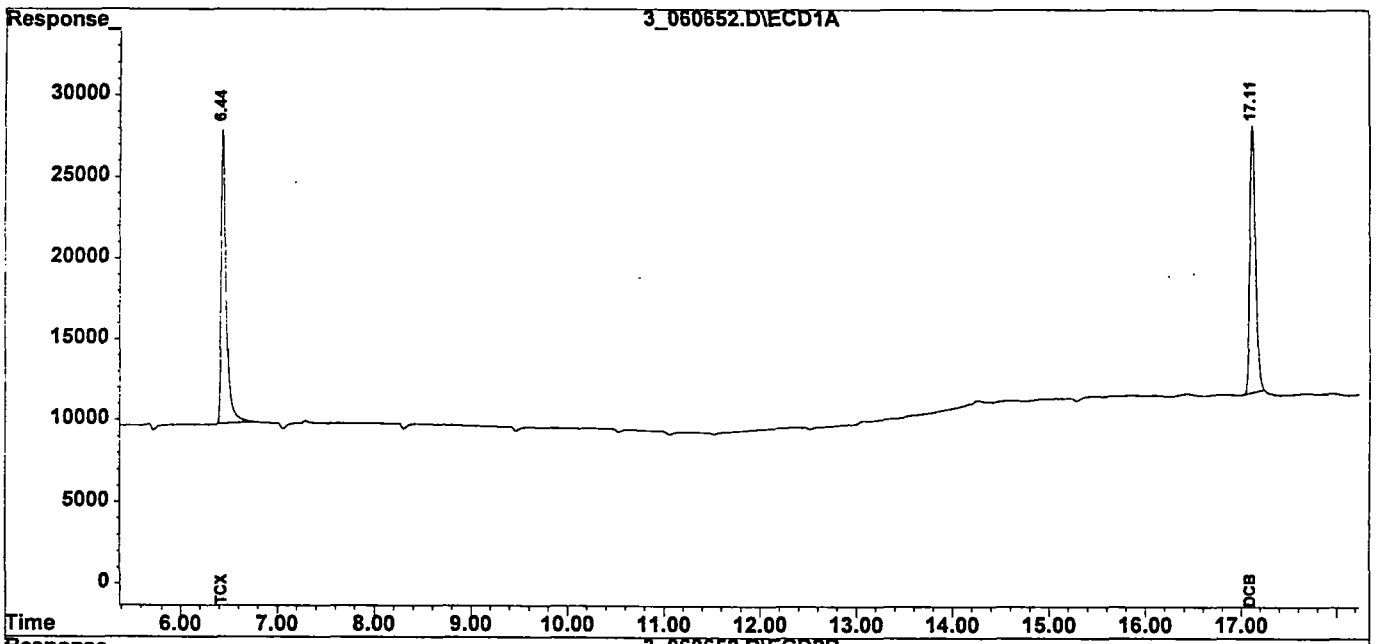
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

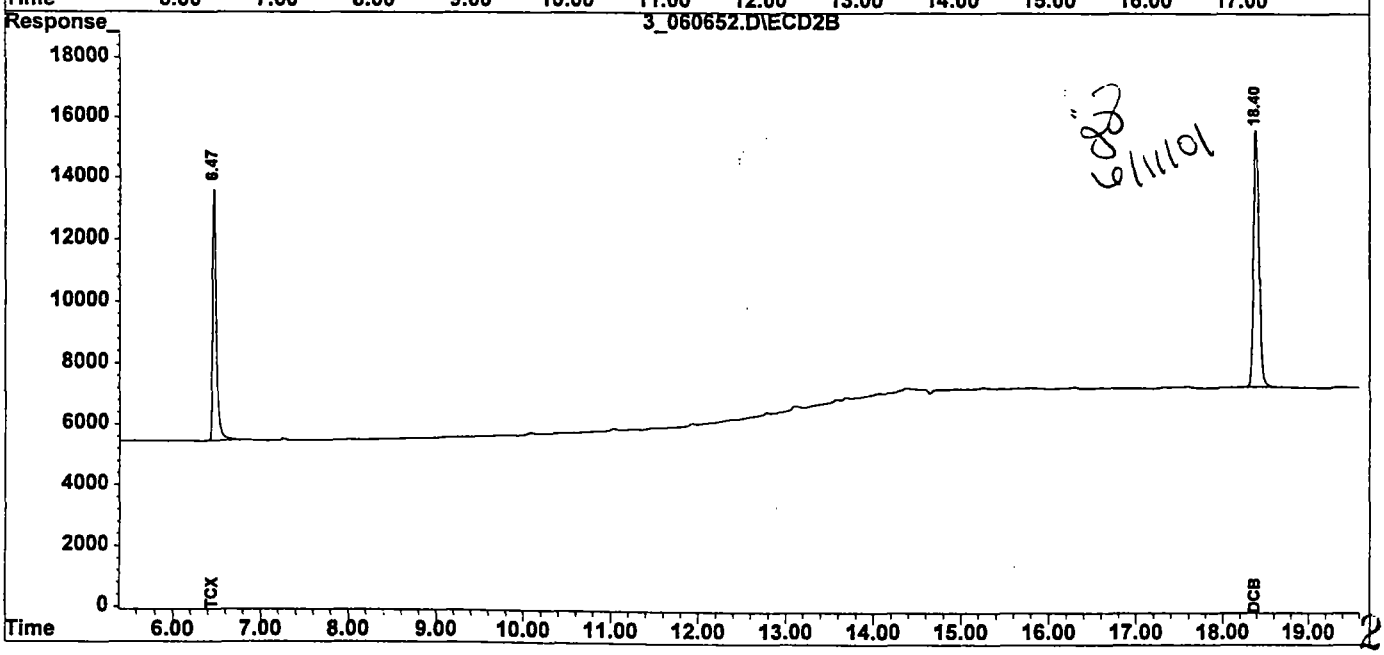
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060652.D\ECD1A.CH Vial: 46
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060652.D\ECD2B.CH
Acq On : 07 Jun 2001 15:20 Operator: DDC
Sample : PIBLKAL Inst : HP_03
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 7 16:10 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





294

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAN

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

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

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAN

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

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

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060675.D\ECD1A.CH Vial: 69
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060675.D\ECD2B.CH
Acq On : 08 Jun 2001 00:49 Operator: DDC
Sample : PIBLKAN Inst : HP_03
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 8:14 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Fri Jun 08 08:22:01 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	685138	254474	29.1	27.4
22)	S DCB	17.13	18.42	672480	370848	25.6	27.7

Target Compounds:

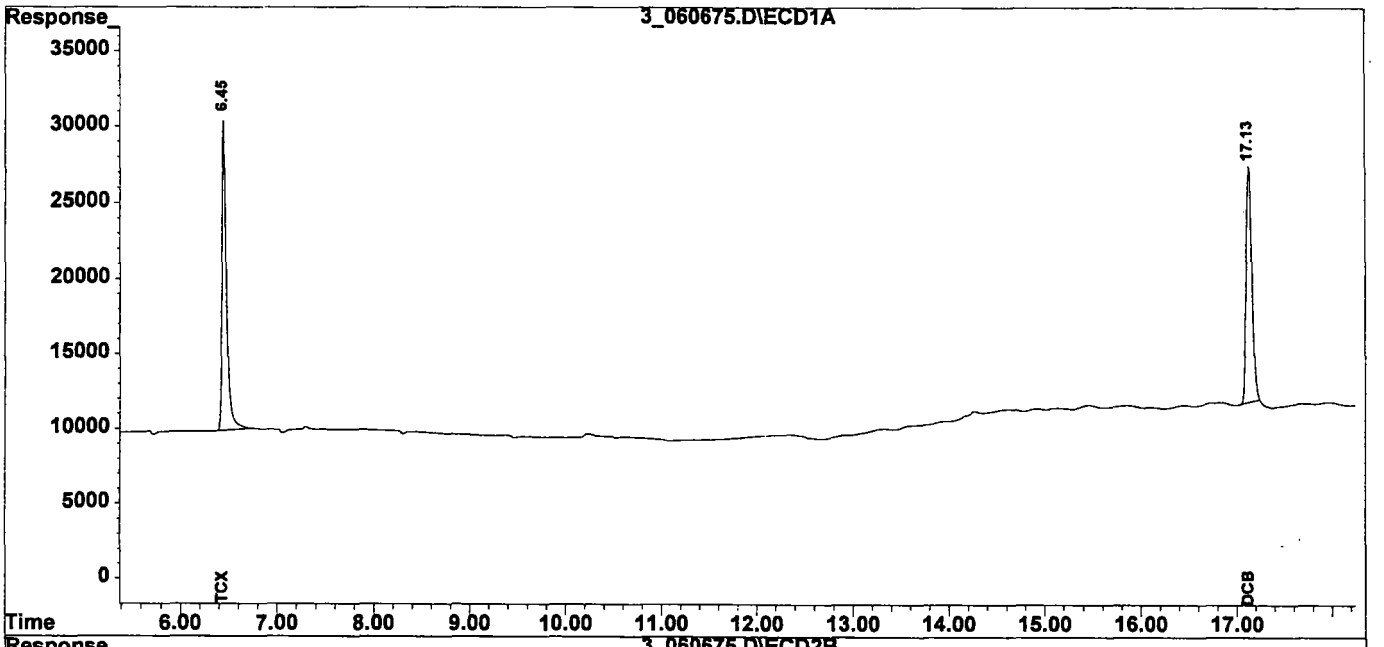
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

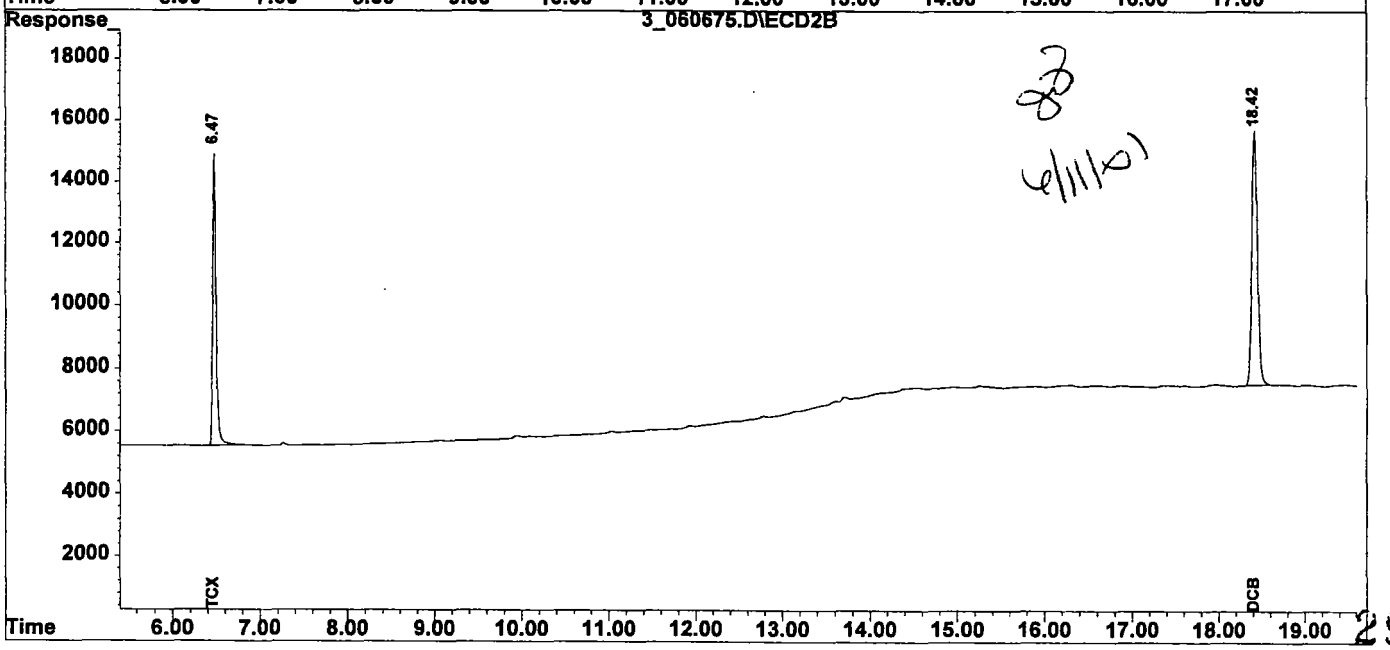
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060675.D\ECD1A.CH Vial: 69
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060675.D\ECD2B.CH
Acq On : 08 Jun 2001 00:49 Operator: DDC
Sample : PIBLKAN Inst : HP_03
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 8:14 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/11/01

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1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAO

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

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

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAO

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

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

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060689.D\ECD1A.CH Vial: 83
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060689.D\ECD2B.CH
Acq On : 08 Jun 2001 6:36 Operator: DDC
Sample : PIBLKAO Inst : HP_03
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 8:21 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	629700	231959	26.7	24.9
22)	S DCB	17.13	18.42	647906	350638	24.7	26.2

Target Compounds:

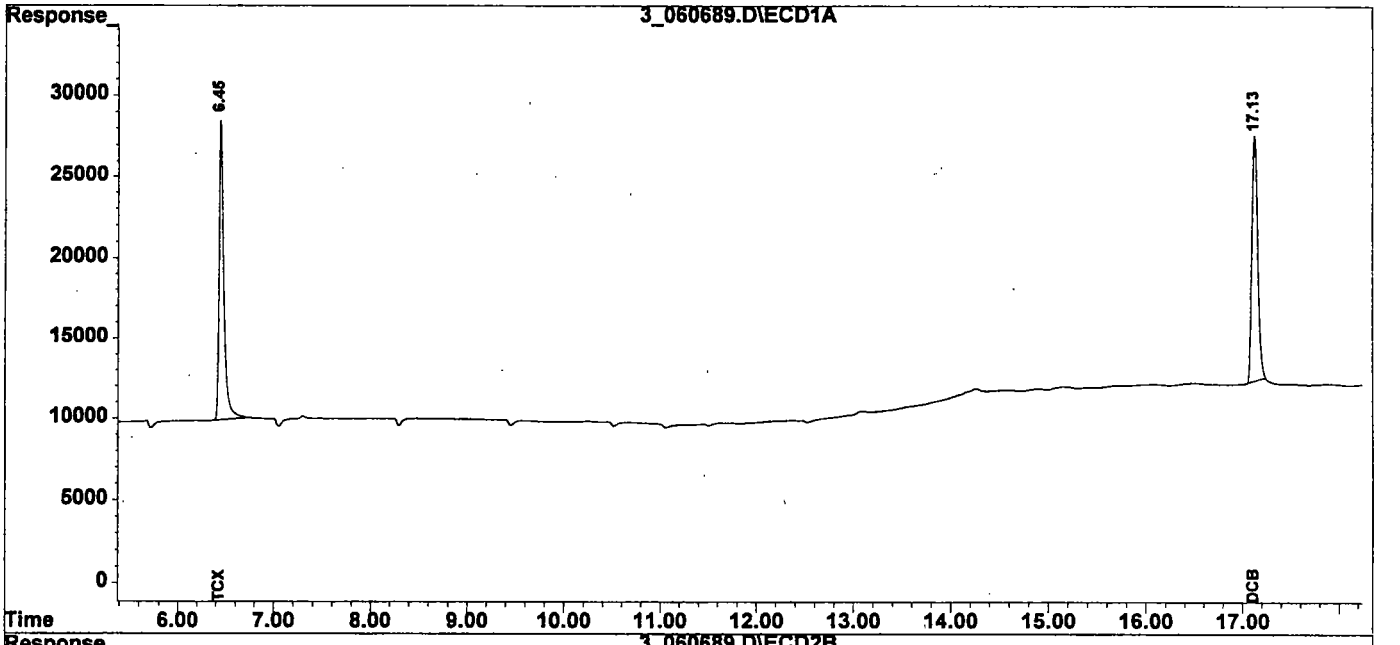
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

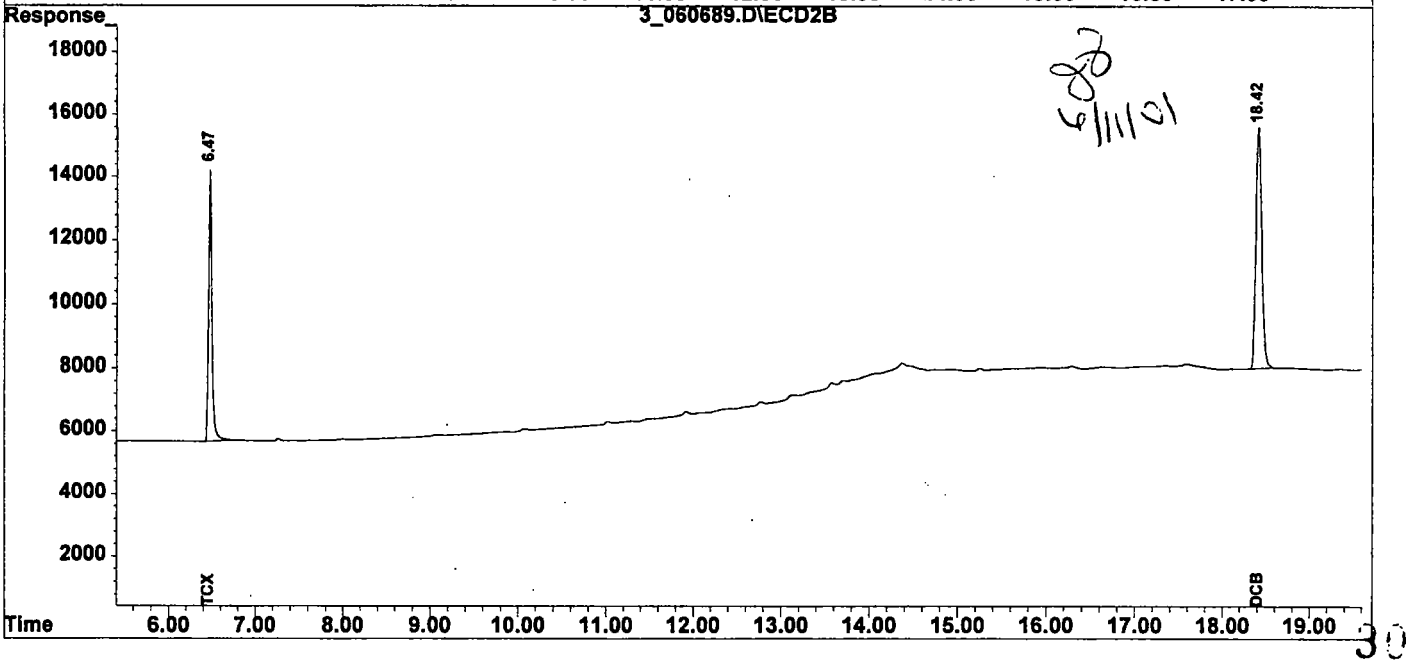
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060689.D\ECD1A.CH Vial: 83
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060689.D\ECD2B.CH
Acq On : 08 Jun 2001 6:36 Operator: DDC
Sample : PIBLKAO Inst : HP_03
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 8:21 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/11/01

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1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAP

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

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

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAP

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

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

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060710.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060710.D\ECD2B.CH
Acq On : 08 Jun 2001 17:47 Operator: DDC
Sample : PIBLKAP Inst : HP_03
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 18:35 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Fri Jun 08 18:40:25 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	643855	232071	27.3	25.0
22)	S DCB	17.12	18.41	686641	354295	26.1	26.5
	Target Compounds:						

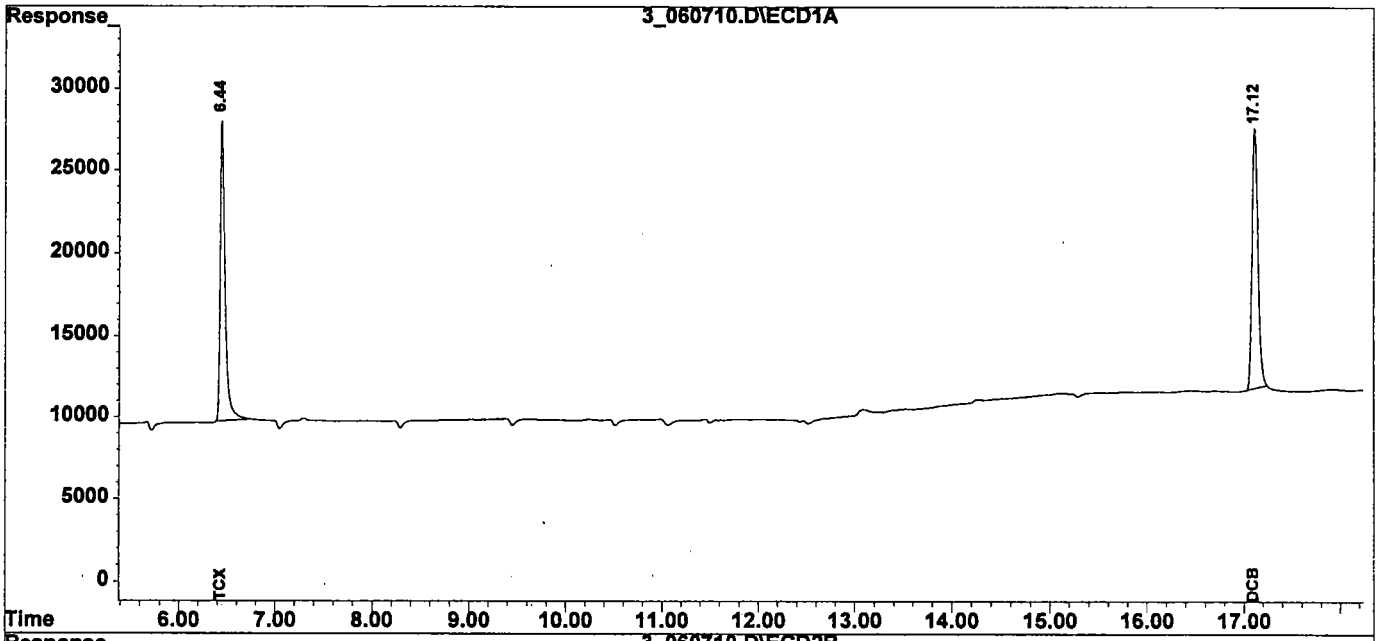
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

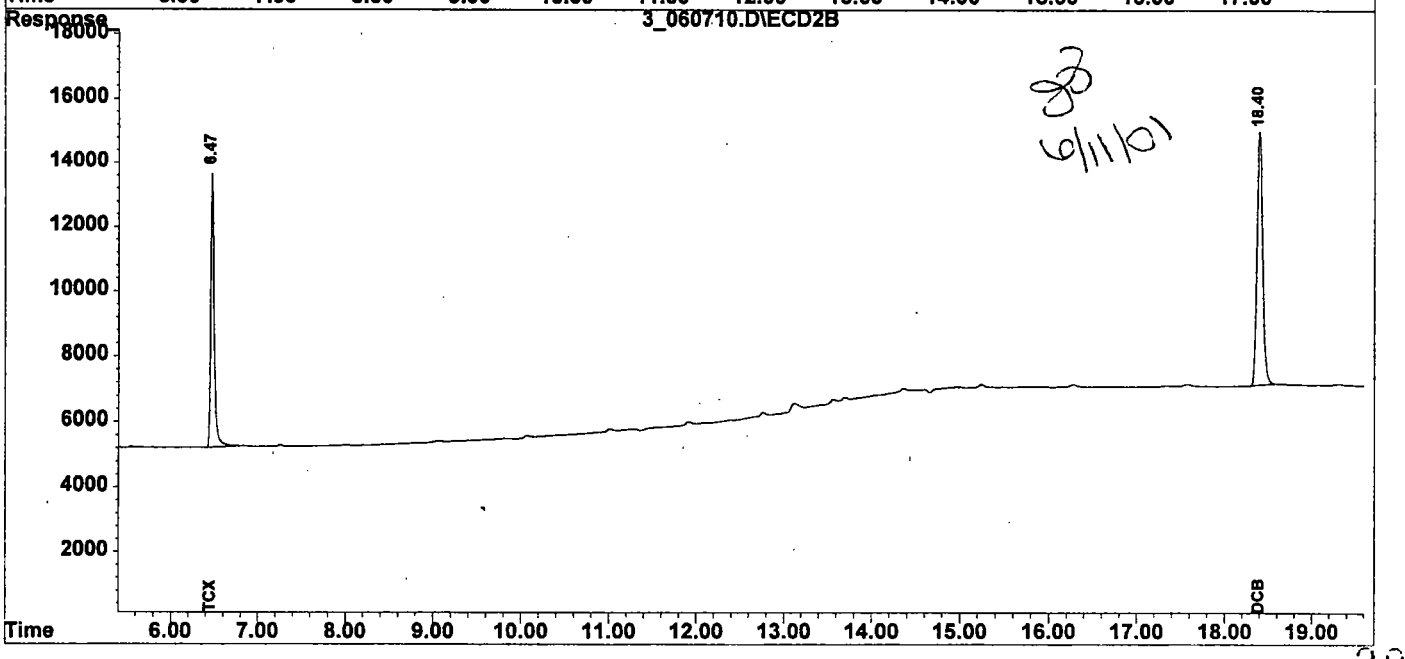
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060710.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060710.D\ECD2B.CH
Acq On : 08 Jun 2001 17:47 Operator: DDC
Sample : PIBLKAP Inst : HP_03
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 18:35 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/11/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK3C

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

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

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK3C

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted: _____

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

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060925.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060925.D\ECD2B.CH
Acq On : 09 Jun 2001 22:23 Operator: DDC
Sample : PIBLK3C Inst : HP_03
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:13 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	469093	182078	18.3	18.5
22)	S DCB	17.13	18.42	439518	222573	18.9	18.8

Target Compounds:

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3077
Signature Imelda M. William
Date 06/12/01

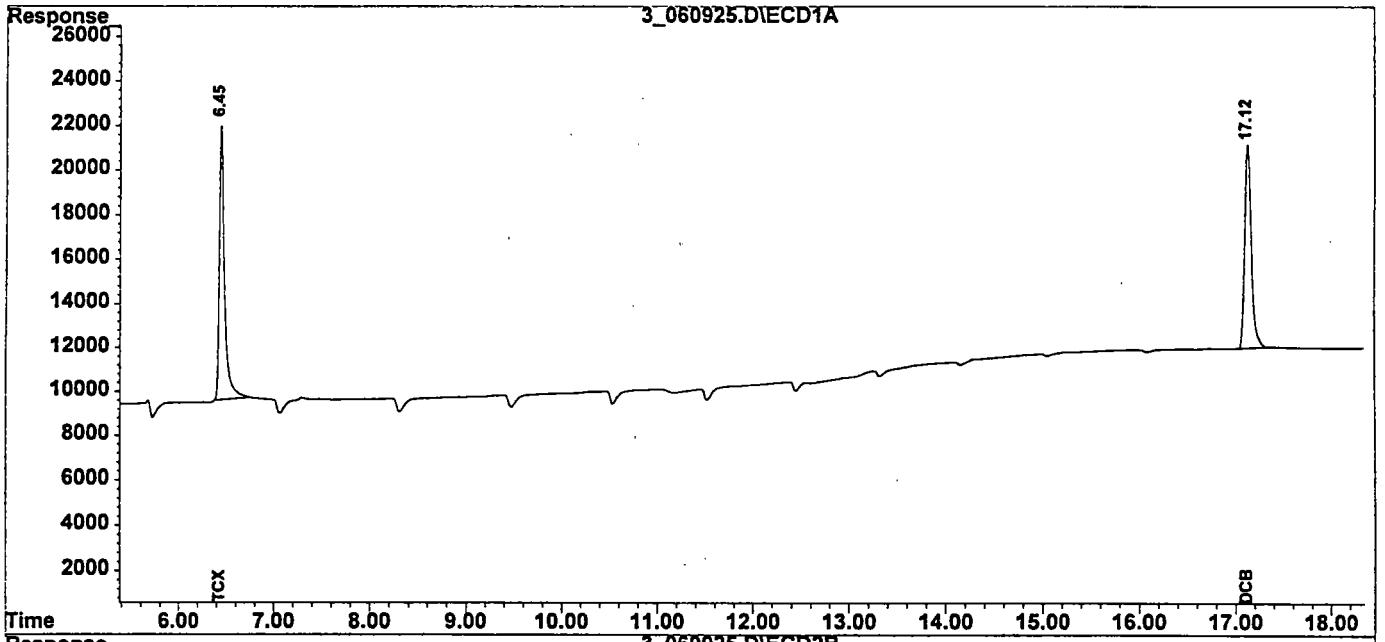
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

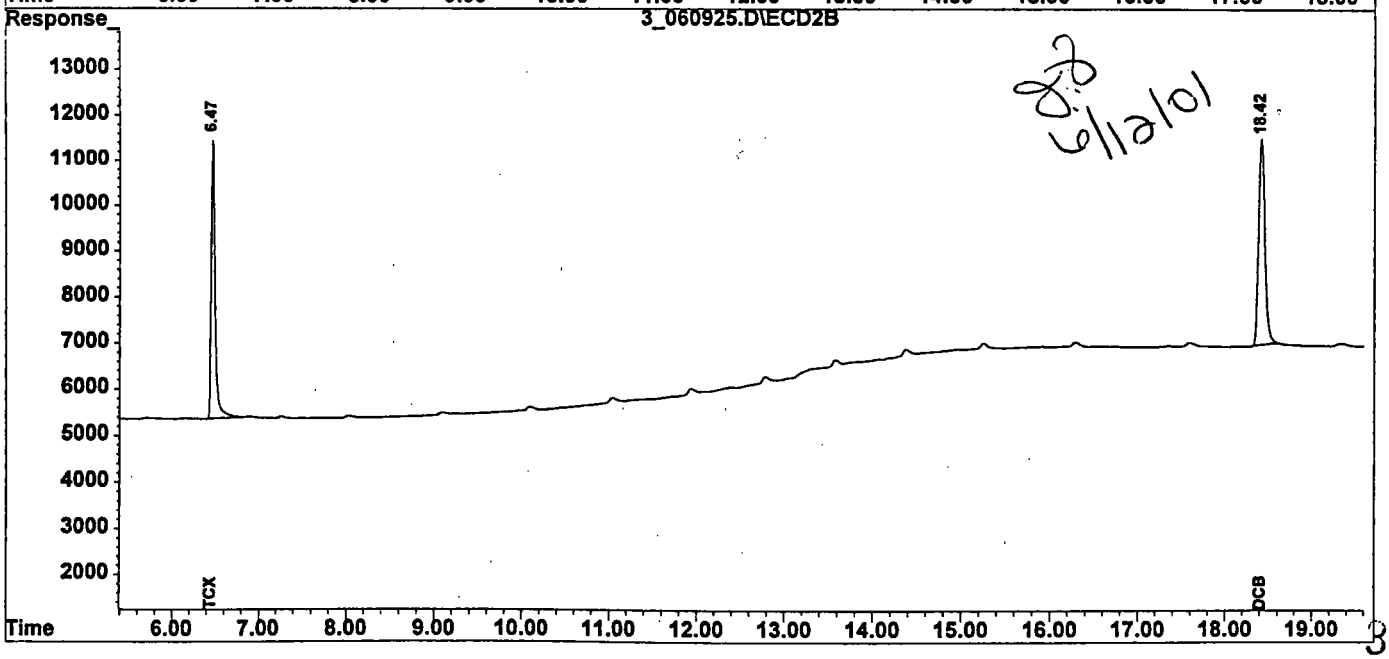
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060925.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060925.D\ECD2B.CH
Acq On : 09 Jun 2001 22:23 Operator: DDC
Sample : PIBLK3C Inst : HP_03
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:13 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

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1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK3D

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/10/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK3D

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/10/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060943.D\ECD1A.CH Vial: 43
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060943.D\ECD2B.CH
Acq On : 10 Jun 2001 5:47 Operator: DDC
Sample : PIBLK3D Inst : HP_03
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:14 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.48	582623	229247	22.7	23.3
22)	S DCB	17.12	18.42	485462	253829	20.8	21.4

Target Compounds:

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29394 SDG E3077
Signature Byron Southey
Date 6/12/01

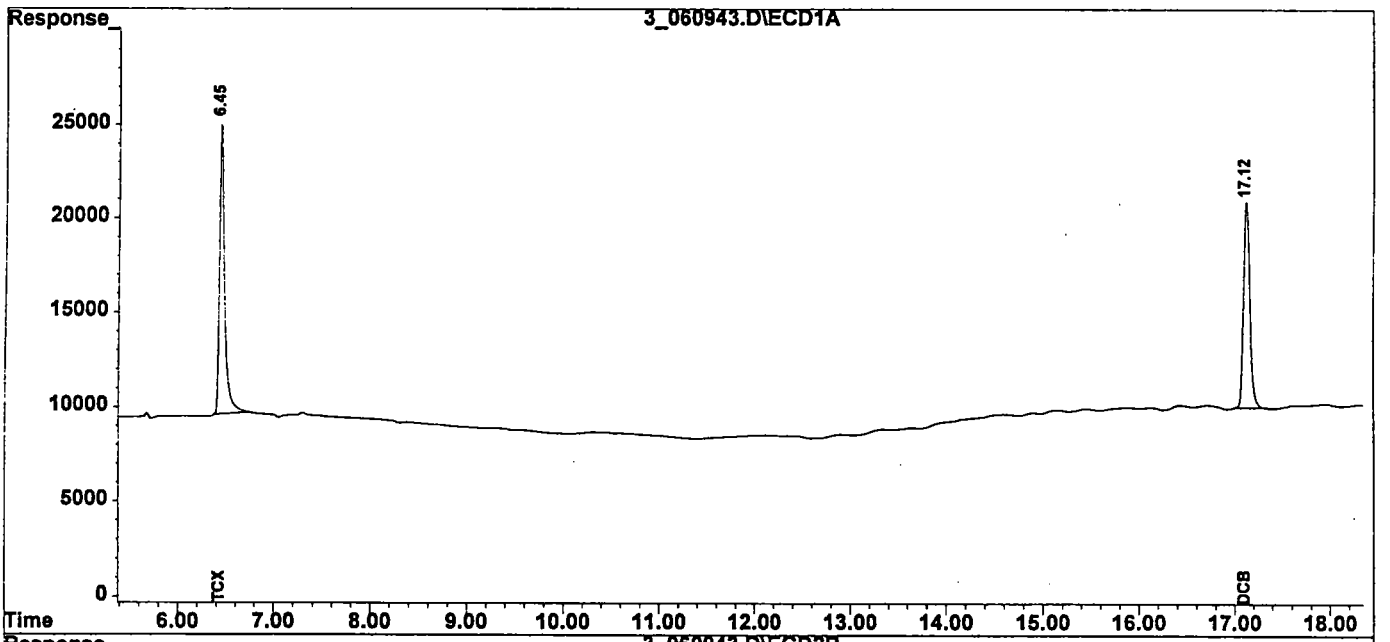
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

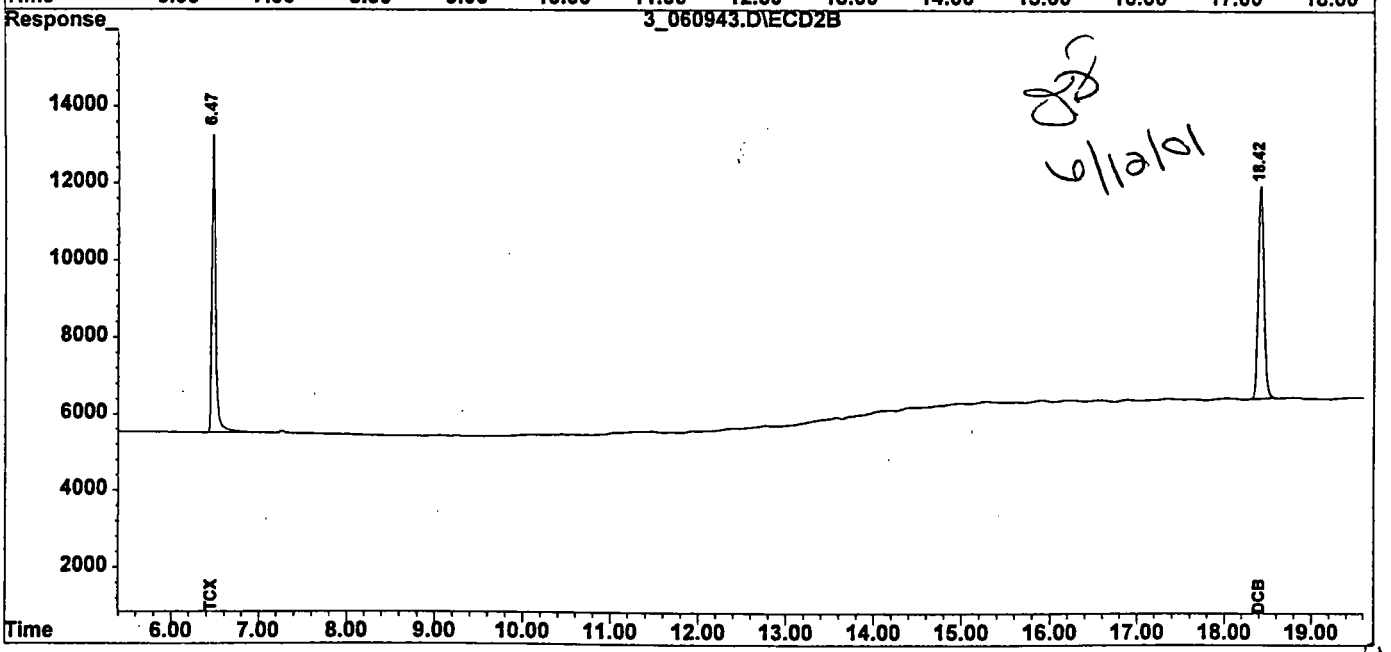
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060943.D\ECD1A.CH Vial: 43
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060943.D\ECD2B.CH
Acq On : 10 Jun 2001 5:47 Operator: DDC
Sample : PIBLK3D Inst : HP_03
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:14 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

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1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK3E

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/10/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK3E

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/10/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060956.D\ECD1A.CH Vial: 56
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060956.D\ECD2B.CH
Acq On : 10 Jun 2001 11:08 Operator: DDC
Sample : PIBLK3E Inst : HP_03
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 11 10:06 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Mon Jun 11 10:32:38 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	644924	239367	25.1	24.4
22)	S DCB	17.12	18.42	562207	290685	24.1	24.5

Target Compounds:

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 09294 SDG E3099
Signature [signature]
Date 6/12/01

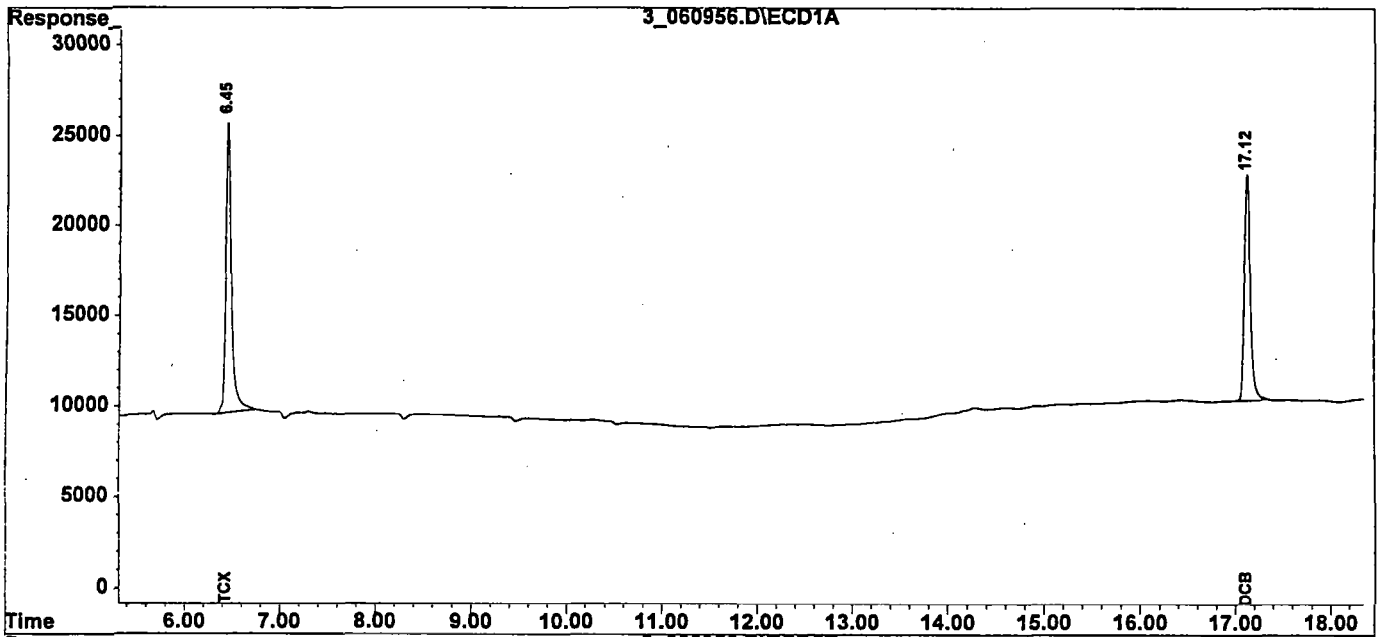
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

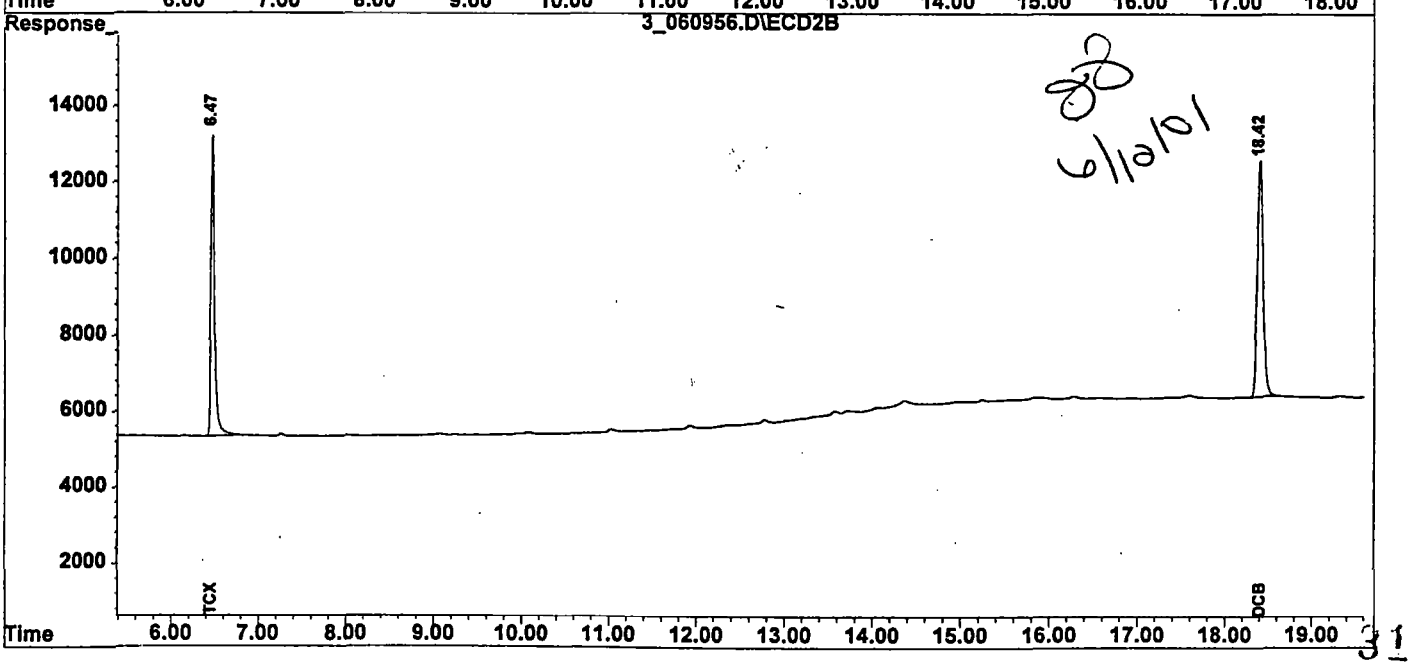
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060956.D\ECD1A.CH Vial: 56
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060956.D\ECD2B.CH
Acq On : 10 Jun 2001 11:08 Operator: DDC
Sample : PIBLK3E Inst : HP_03
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 11 10:06 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/10/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS1

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: LC0601SE

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

% Moisture: 0 decanted: (Y/N) __ Date Received: 06/01/01

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

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

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	140	
11096-82-5	Aroclor-1260	33	U
Surrogate amount spiked		6.67	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060659.D\ECD1A.CH Vial: 53
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060659.D\ECD2B.CH
Acq On : 07 Jun 2001 18:14 Operator: DDC
Sample : LC0601SE *ELCS* Inst : HP_03
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 13:28 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.44	6.47	506111	190074	7.153	6.814
	Spiked Amount 6.667			Recovery	=	107.30%	102.21%
22)	S DCB	17.11f	18.39f	700932	357299	8.896	8.900
	Spiked Amount 6.667			Recovery	=	133.44%	133.50%
	Target Compounds:						
12)	L6 Aroclor-1254	9.73	10.45	389269	61614	144.7	133.6
13)	L6 Aroclor-1254 {2}	11.59	11.40	220497	107617	145.4	149.0
14)	L6 Aroclor-1254 {3}	12.33	11.98	577318	146868	146.1	141.9
15)	L6 Aroclor-1254 {4}	12.74	12.38	155852	276179	123.1	149.2
16)	L6 Aroclor-1254 {5}	12.90	12.61	228673	181568	139.8	133.1
	Sum Aroclor-1254			1571610	773846	699.0	706.8
	Average Aroclor-1254					139.802	141.362

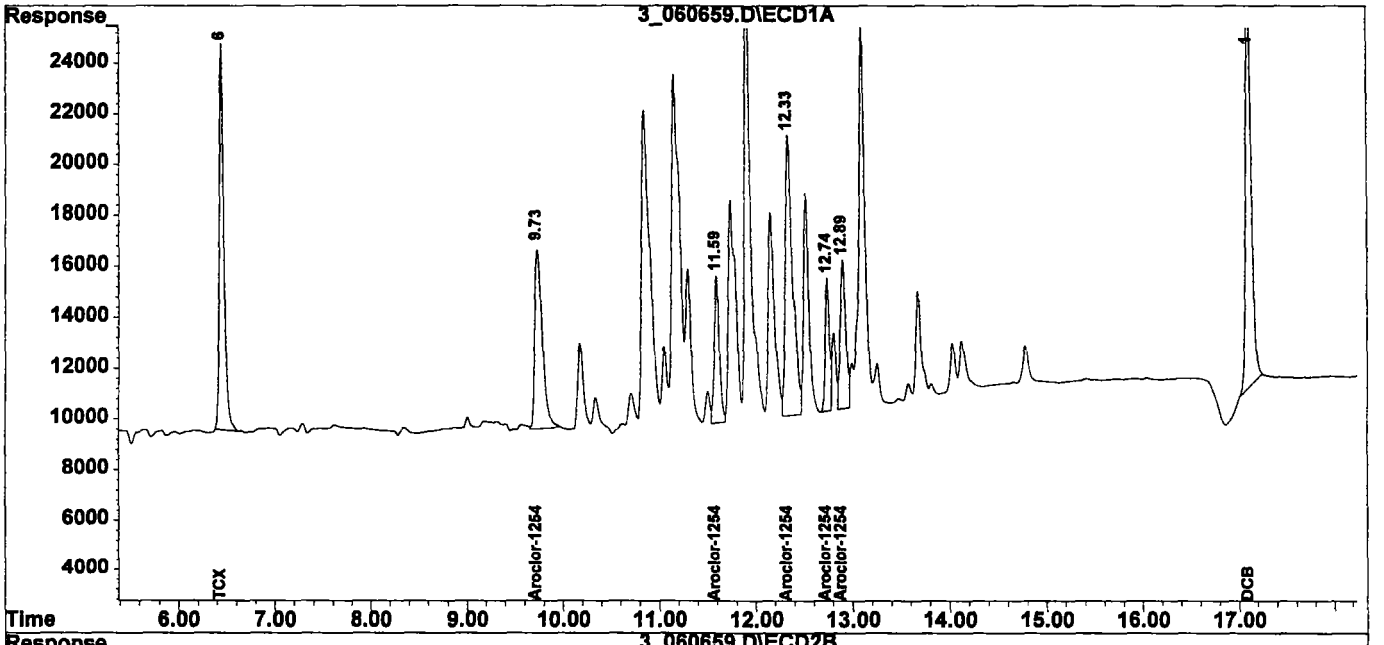
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

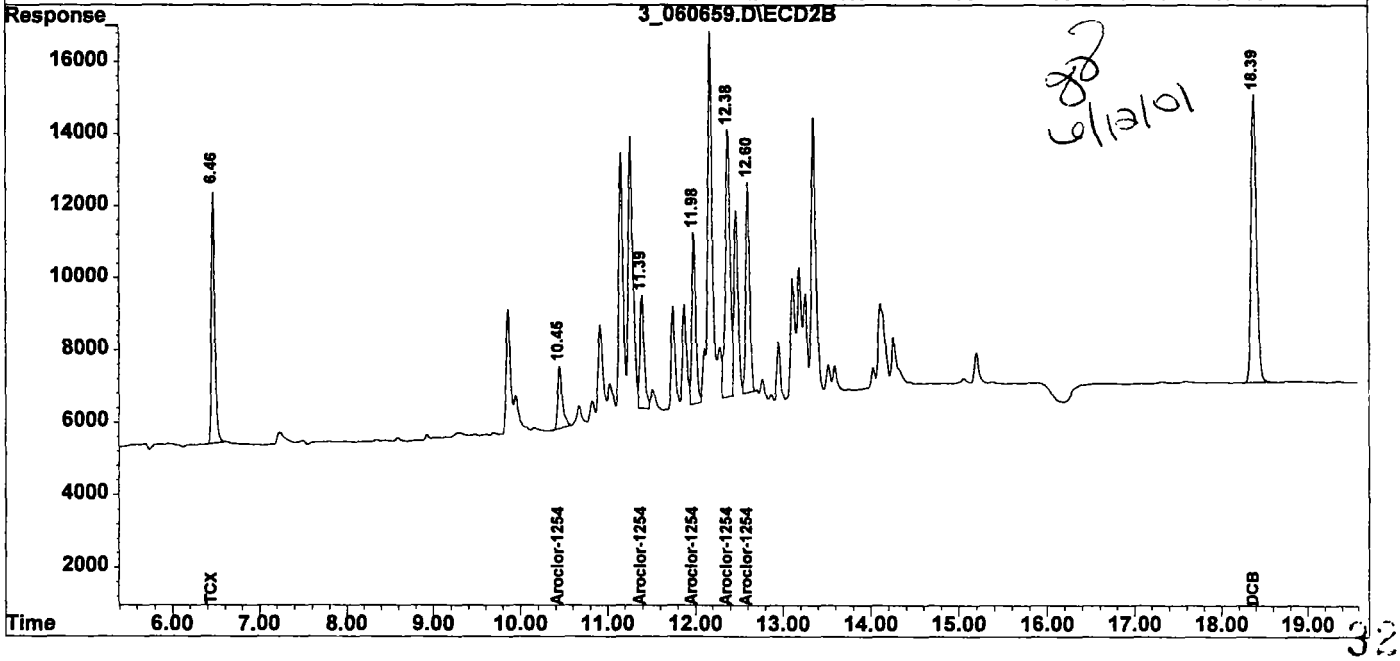
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060659.D\ECD1A.CH Vial: 53
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060659.D\ECD2B.CH
Acq On : 07 Jun 2001 18:14 Operator: DDC
Sample : LC0601SE *ELCS\ * Inst : HP_03
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 13:28 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS2

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: LD0601SE

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

% Moisture: 0 decanted: (Y/N) __ Date Received: 06/01/01

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

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

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	130	
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060660.D\ECD1A.CH Vial: 54
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060660.D\ECD2B.CH
Acq On : 07 Jun 2001 18:38 Operator: DDC
Sample : LD0601SE *ELCS2 * Inst : HP_03
Misc : **30G/5.0ML*0 Lab/2/01 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 13:28 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.44	6.47	457288	177983	6.463	6.380
	Spiked Amount 6.667			Recovery	=	96.95%	95.70%
22)	S DCB	17.11f	18.39f	629112	317637	7.984	7.912
	Spiked Amount 6.667			Recovery	=	119.76%	118.68%
	Target Compounds:						
12)	L6 Aroclor-1254	9.73	10.45	370174	61490	137.6	133.4
13)	L6 Aroclor-1254 {2}	11.59	11.40	210463	102867	138.7	142.4
14)	L6 Aroclor-1254 {3}	12.34	11.99	549215	139107	139.0	134.4
15)	L6 Aroclor-1254 {4}	12.74	12.38	150488	260415	118.9	140.6
16)	L6 Aroclor-1254 {5}	12.90	12.61	213641	171906	130.6	126.0
	Sum Aroclor-1254			1493980	735786	664.8	676.9
	Average Aroclor-1254					132.952	135.374

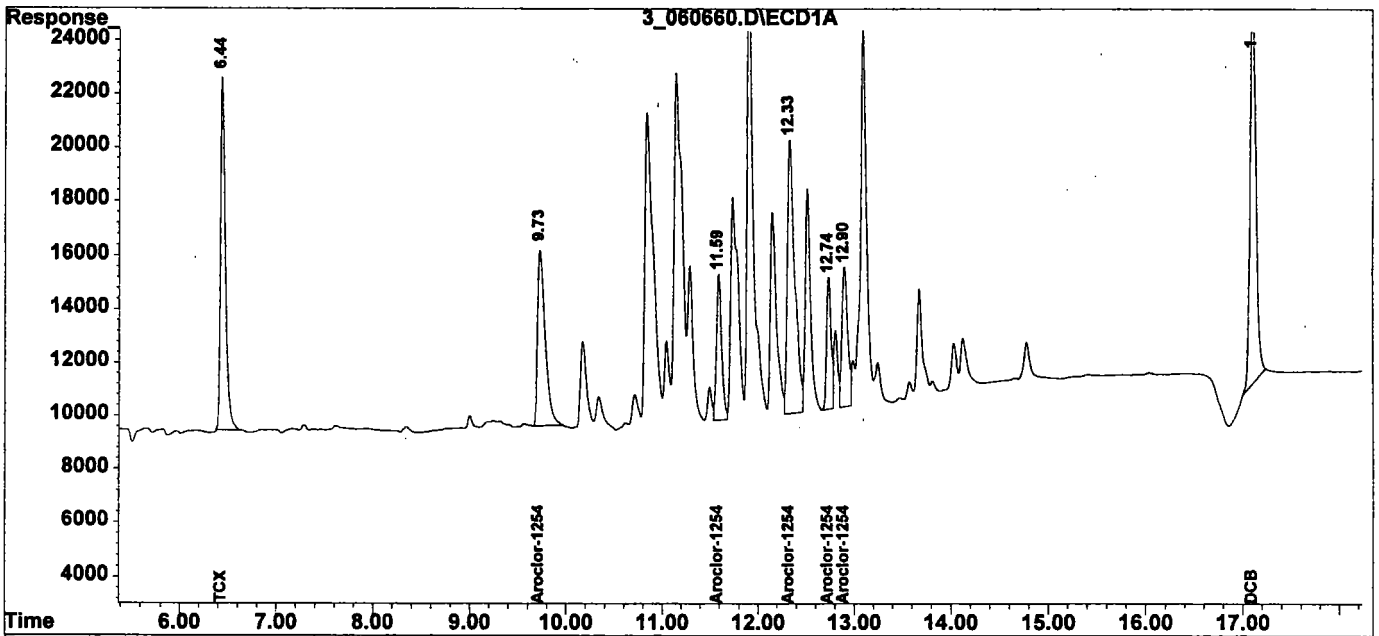
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

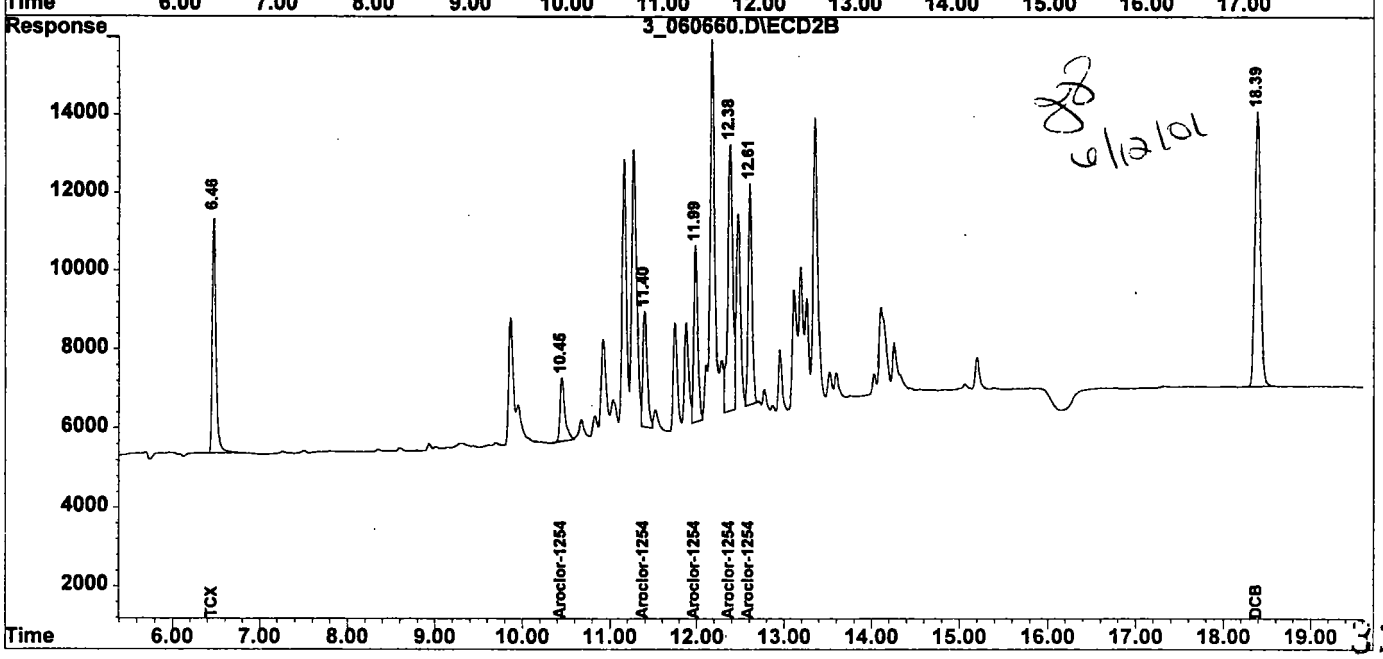
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060660.D\ECD1A.CH Vial: 54
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060660.D\ECD2B.CH
Acq On : 07 Jun 2001 18:38 Operator: DDC
Sample : LD0601SE *ELCS2 * Inst : HP_03
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 13:28 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

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1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30C0MS

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.04MS

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

% Moisture: 38 decanted: (Y/N) __ Date Received: 06/01/01

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

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/10/01

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	53	U
11104-28-2	Aroclor-1221	53	U
11141-16-5	Aroclor-1232	53	U
53469-21-9	Aroclor-1242	53	U
12672-29-6	Aroclor-1248	53	U
11097-69-1	Aroclor-1254	180	
11096-82-5	Aroclor-1260	53	U
	Surrogate amount spiked	10.69	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060934.D\ECD1A.CH Vial: 34
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060934.D\ECD2B.CH
Acq On : 10 Jun 2001 2:05 Operator: DDC
Sample : 46663.04MS *E30C0MS * Inst : HP_03
Misc : *EPA*30.2G/5.0ML*38 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:25 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	444118	191479	9.235	10.4	
	Spiked Amount 10.681			Recovery	=	86.46%	97.36%	
22)	S DCB	17.11	18.41	540605	280198	12.4	12.6	
	Spiked Amount 10.681			Recovery	=	116.09%	117.96%	
	Target Compounds:							
12)	L6 Aroclor-1254	9.72	10.45	313479	57474	175.1	219.7	#
1^	L6 Aroclor-1254 {2}	11.58	11.39	151436	98720	187.2	155.6	
14.	L6 Aroclor-1254 {3}	12.38	11.98	338747	119410	206.2	203.8	
15)	L6 Aroclor-1254 {4}	12.74	12.17	112046	267129	163.5	176.3	
16)	L6 Aroclor-1254 {5}	13.09	12.61	497459	153528	177.2	162.2	
	Sum Aroclor-1254			1413167	696260	909.1	917.6	
	Average Aroclor-1254					181.824	183.521	

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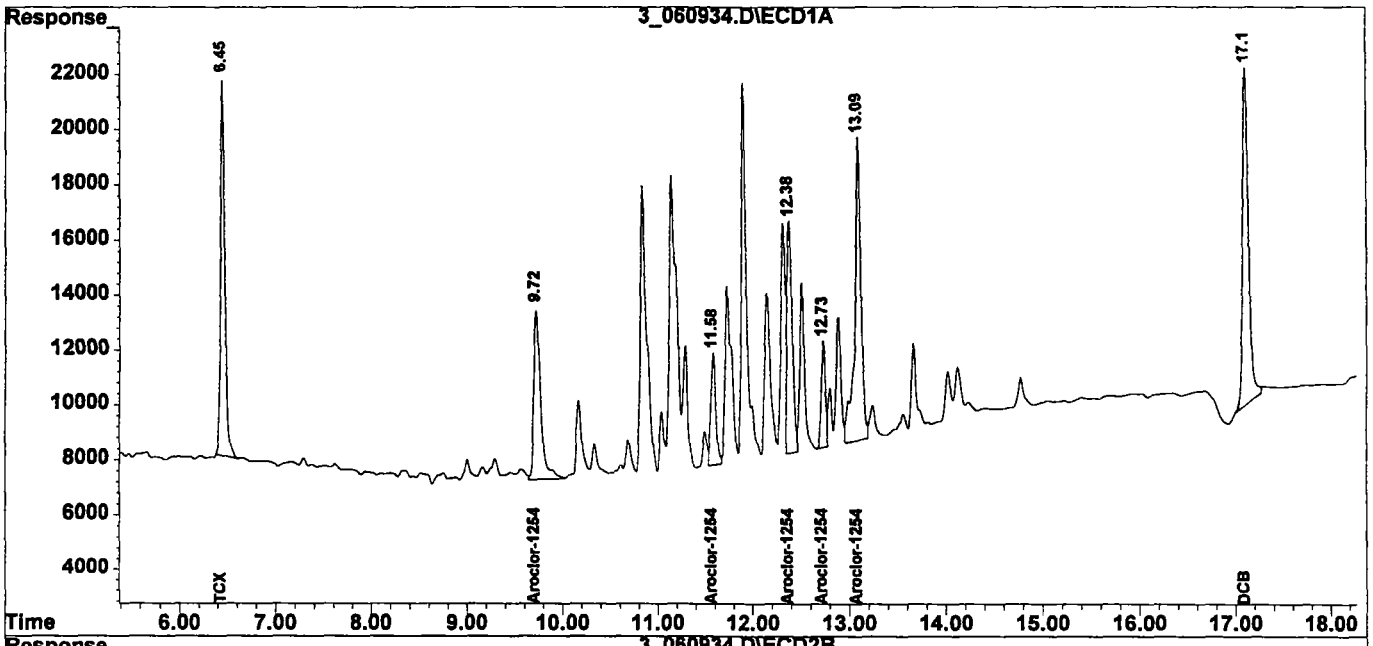
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

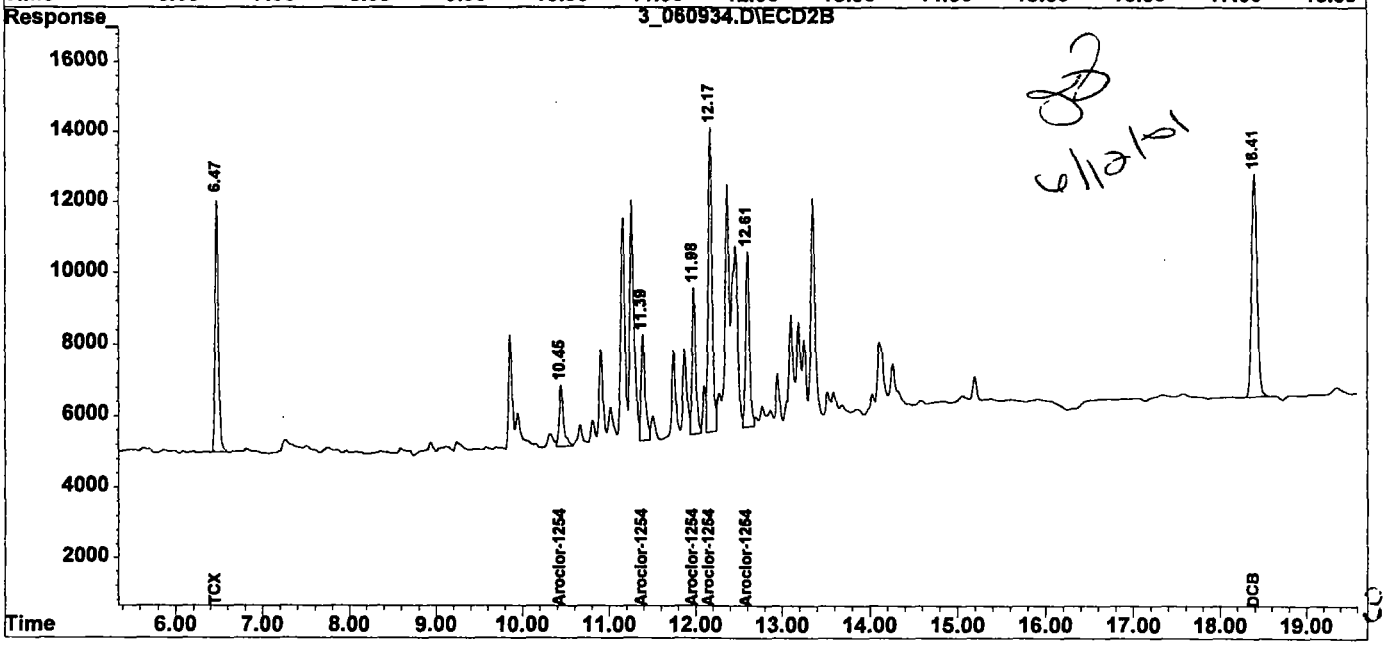
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060934.D\ECD1A.CH Vial: 34
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060934.D\ECD2B.CH
Acq On : 10 Jun 2001 2:05 Operator: DDC
Sample : 46663.04MS *E30C0MS * Inst : HP_03
Misc : *EPA*30.2G/5.0ML*38 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:25 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/12/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30C0MSD

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30C0

Matrix: (soil/water) SOIL Lab Sample ID: 46663.05MSD

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

% Moisture: 38 decanted: (Y/N) __ Date Received: 06/01/01

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

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/10/01

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	53	U
11104-28-2	Aroclor-1221	53	U
11141-16-5	Aroclor-1232	53	U
53469-21-9	Aroclor-1242	53	U
12672-29-6	Aroclor-1248	53	U
11097-69-1	Aroclor-1254	200	
11096-82-5	Aroclor-1260	53	U
	Surrogate amount spiked	10.64	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060935.D\ECD1A.CH Vial: 35
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060935.D\ECD2B.CH
Acq On : 10 Jun 2001 2:29 Operator: DDC
Sample : 46663.05MSD *E30C0MSD * Inst : HP_03
Misc : *EPA*30.3G/5.0ML*38 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:26 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.47	422222	182305	8.751	9.878	
	Spiked Amount 10.646			Recovery	=	82.20%	92.78%	
22)	S DCB	17.11	18.41	552405	287742	12.6	12.9	
	Spiked Amount 10.646			Recovery	=	118.35%	121.17%	
	Target Compounds:							
12)	L6 Aroclor-1254	9.72	10.45	340020	73766	189.3	281.0	#
1´	L6 Aroclor-1254 {2}	11.58	11.39	169163	110630	208.4	173.8	
14,	L6 Aroclor-1254 {3}	12.38	11.98	349421	137865	212.0	234.5	
15)	L6 Aroclor-1254 {4}	12.73	12.17	132590	310652	192.8	204.4	
16)	L6 Aroclor-1254 {5}	13.09	12.61	512207	179502	181.8	189.0	
	Sum Aroclor-1254			1503402	812416	984.3	1082.7	
	Average Aroclor-1254					196.865	216.547	

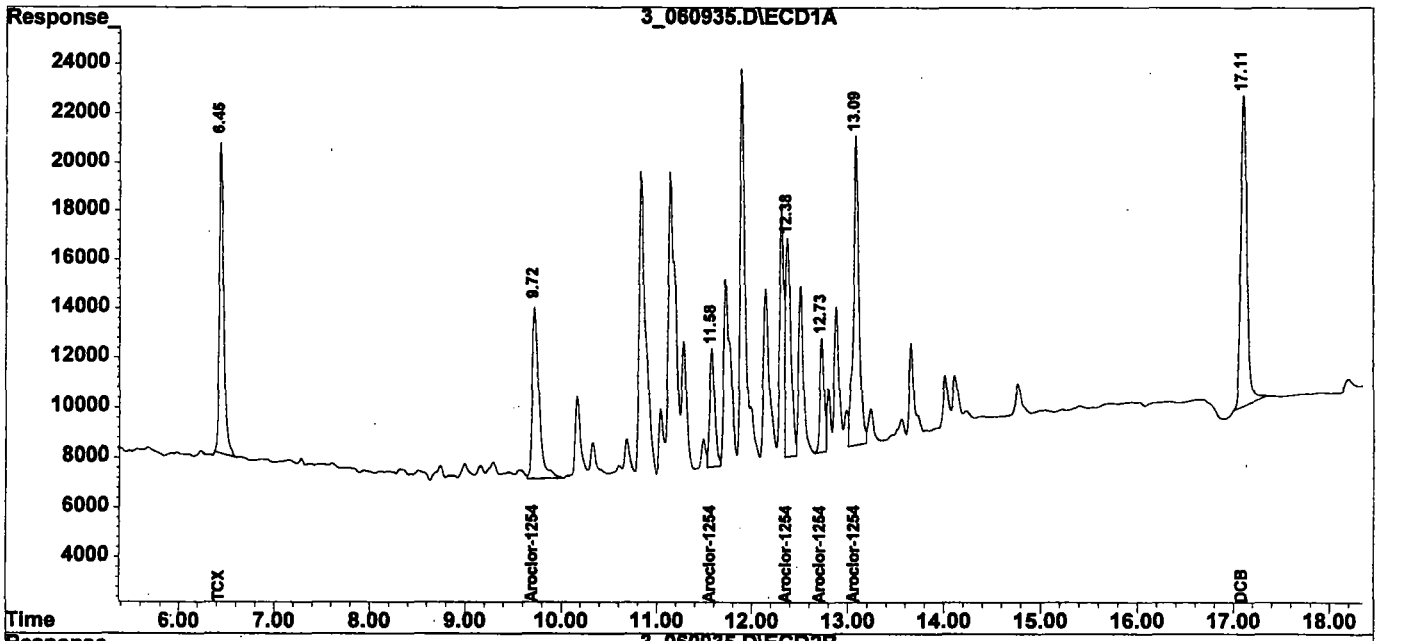
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

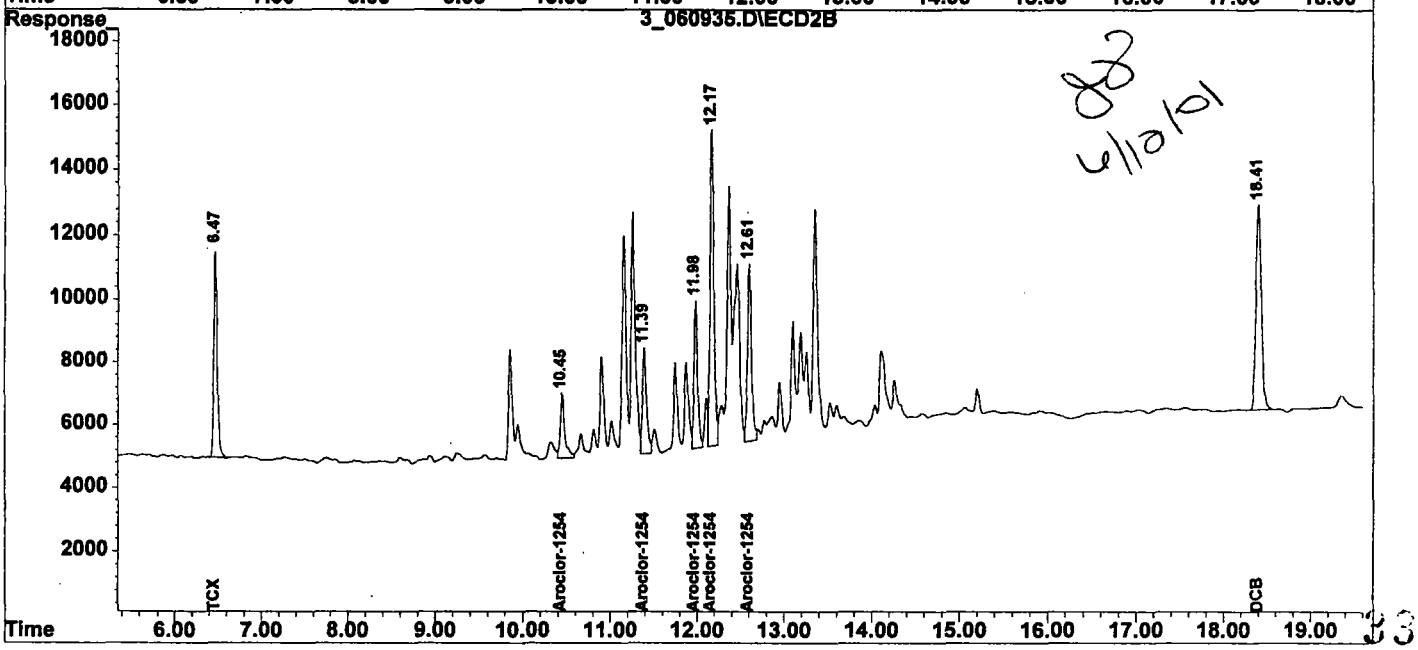
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060935.D\ECD1A.CH Vial: 35
Signal #2 : F:\HPCHEM\HP\3\DATA\06_09_01\3_060935.D\ECD2B.CH
Acq On : 10 Jun 2001 2:29 Operator: DDC
Sample : 46663.05MSD *E30C0MSD * Inst : HP_03
Misc : *EPA*30.3G/5.0ML*38 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 10 9:26 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





6/10/01

330

Gel Permeation Chromatography (GPC) Run Log - GPC2

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 364134 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case# 29294

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
06/02/01 15:55	1	CAL.STD (INITIAL)	2_060201	
06/02/01 16:26	2	SB	2_060202	
06/02/01 16:58	3	SB	2_060203	
06/02/01 17:29	4	SB	2_060204	
06/02/01 18:00	5	SB#060201A (PEST)	2_060205	
06/02/01 18:31	6	SB#060201B (PEST)	2_060206	
06/02/01 19:02	7	BL0601SE-EPA	2_060207	
06/02/01 19:33	8	BB0601SE-EPA	2_060208	
06/02/01 20:04	9	LC0601SE-EPA	2_060209	
06/02/01 20:35	10	LD0601SE-EPA	2_060210	
06/02/01 21:06	11	46663.19-E3OD9-EPA	2_060211	
06/02/01 21:37	12	46663.20-E3OE0-EPA	2_060212	
06/02/01 22:09	13	46663.08-E3OC3-EPA	2_060213	
06/02/01 22:40	14	46663.09-E3OC4-EPA	2_060214	
06/02/01 23:11	15	46663.15-E3OD5-EPA	2_060215	
06/02/01 23:42	16	46663.16-E3OD6-EPA	2_060216	
06/03/01 00:13	17	46663.17-E3OD7-EPA	2_060217	
06/03/01 00:44	18	46663.18-E3OD8-EPA	2_060218	
06/03/01 01:15	19	46663.03-E3OCO-EPA	2_060219	
06/03/01 01:46	20	46663.04-MS-E3OCO-EPA	2_060220	
06/03/01 02:17	21	46663.05-MSD-E3OCO-EPA	2_060221	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3099
Signature [signature]
Date 06/12/01
COPY

6/11/2001
Verification Signature/Date

6/9/01
Analyst Signature/Date

Book: OE-102-16-RUN-18 Page No.: 27

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Gel Permeation Chromatography (GPC) Run Log - GPC2

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 364134 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case# 29294

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
06/03/01 02:48	22	46663.12-E3OC7-EPA	2_060222	
06/03/01 03:20	23	46663.13-E3OD3-EPA	2_060223	
06/03/01 03:51	24	46663.01-E3OB8-EPA	2_060224	
06/03/01 04:22	25	46663.02-E3OB9-EPA	2_060225	
06/03/01 04:53	26	46663.06-E3OC1-EPA	2_060226	
06/03/01 05:24	27	46663.07-E3OC2-EPA	2_060227	
06/03/01 05:55	28	46663.10-E3OC5-EPA	2_060228	
06/03/01 06:26	29	46663.11-E3OC6-EPA	2_060229	
06/03/01 06:57	30	46663.14-E3OD4-EPA	2_060230	
06/03/01 07:28	31	SB	2_060231	
06/03/01 07:59	32	SB	2_060232	
06/03/01 08:31	33	SB	2_060233	
06/03/01 09:02	34	CAL.STD (FINAL)	2_060234	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3099
Signature
Date 06/12/01
COPY

Compound	Initial RT	Final RT	% Difference
Phthalate	14.16	14.11	0.35
Methoxychlor	15.78	15.73	0.32
Perylene	20.79	20.73	0.23

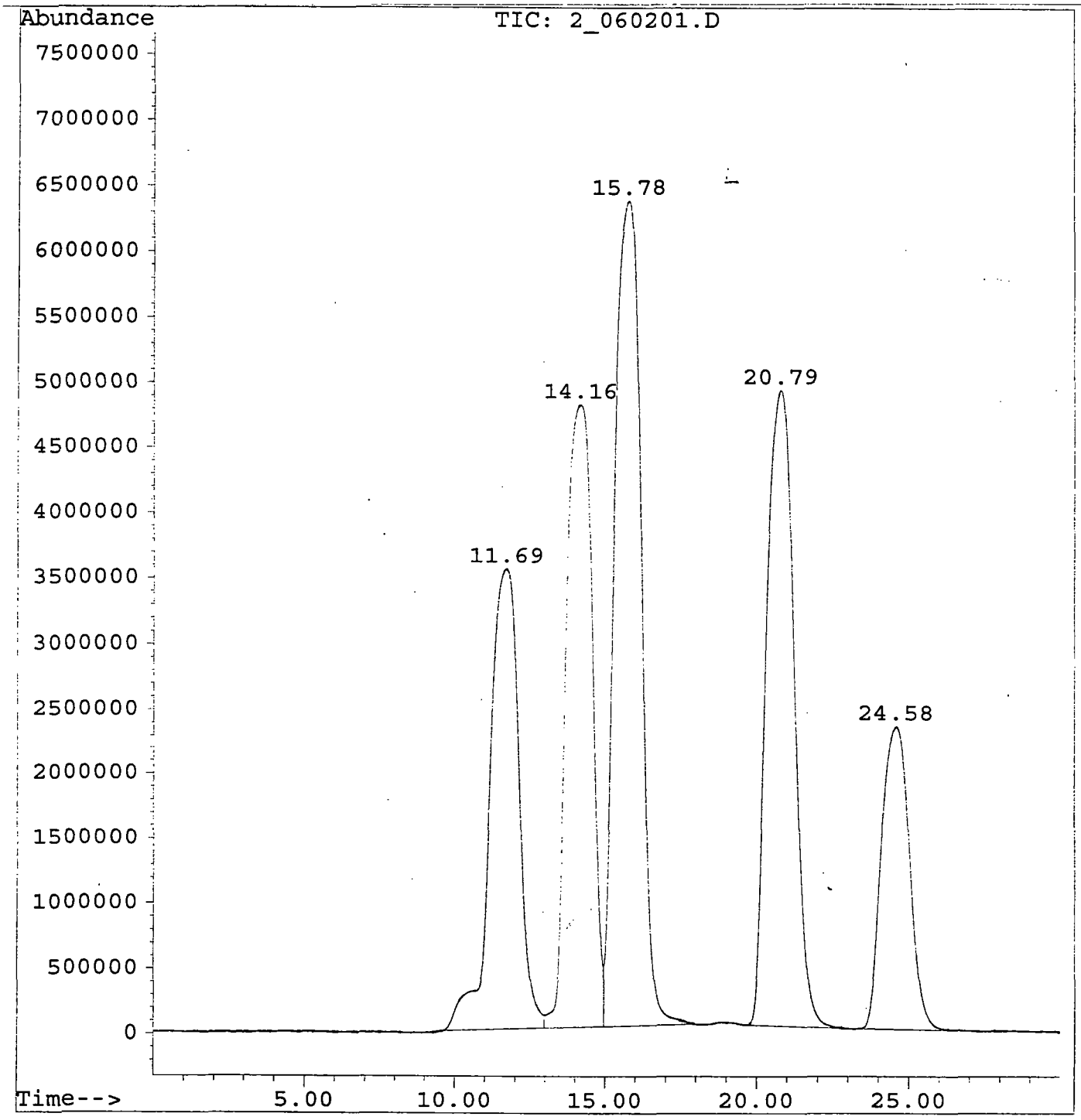
6/11/2001
Verification Signature/Date

6/1/01
Analyst Signature/Date

Book: OE-102-16-RUN-18 Page No.: 28

Data File : C:\HPCHEM\6\DATA\060201\2_060201.D
Acq On : 02 Jun 01 03:55 PM
Sample : CAL.STD (INITIAL)
Misc : COL# 364134

Vial: 1
Operator: CD COL#
Inst : GPC2
Multiplr: 1.00



5) 11.69 = Corn Oil

333

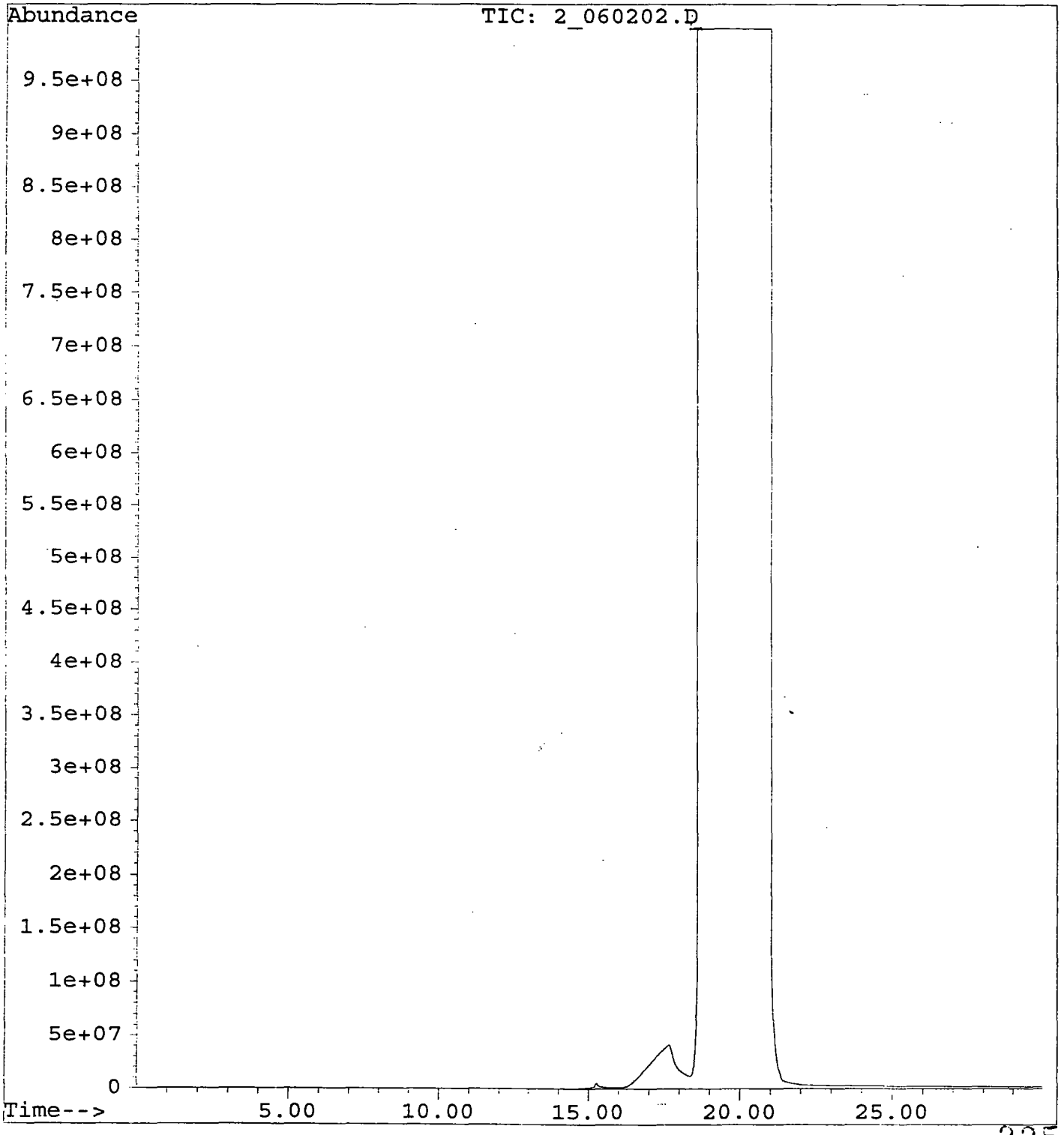
Chromatographic Resolution Report

Data File : C:\HPCHEM\6\DATA\060201\2_060201.D Vial: 1
Acq On : 02 Jun 01 15:55 Operator: CD COL# 36
Sample : CAL.STD (INITIAL) Inst : GPC2
Misc : COL# 364134 Multiplr: 1.00

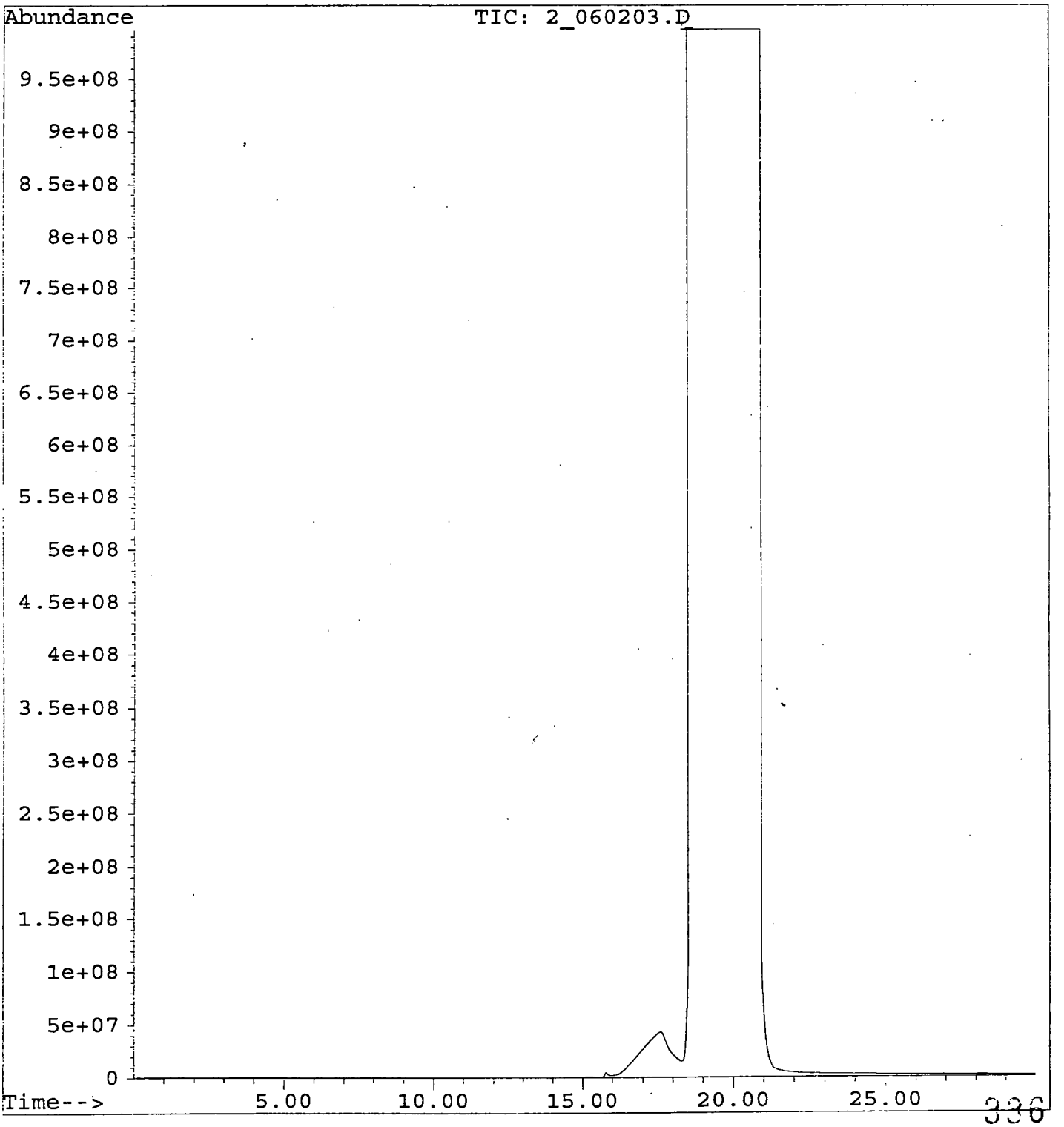
Method : C:\HPCHEM\6\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.686	14.162	97.11
14.162	15.779	90.21
15.779	20.786	100.00
20.786	24.576	100.00

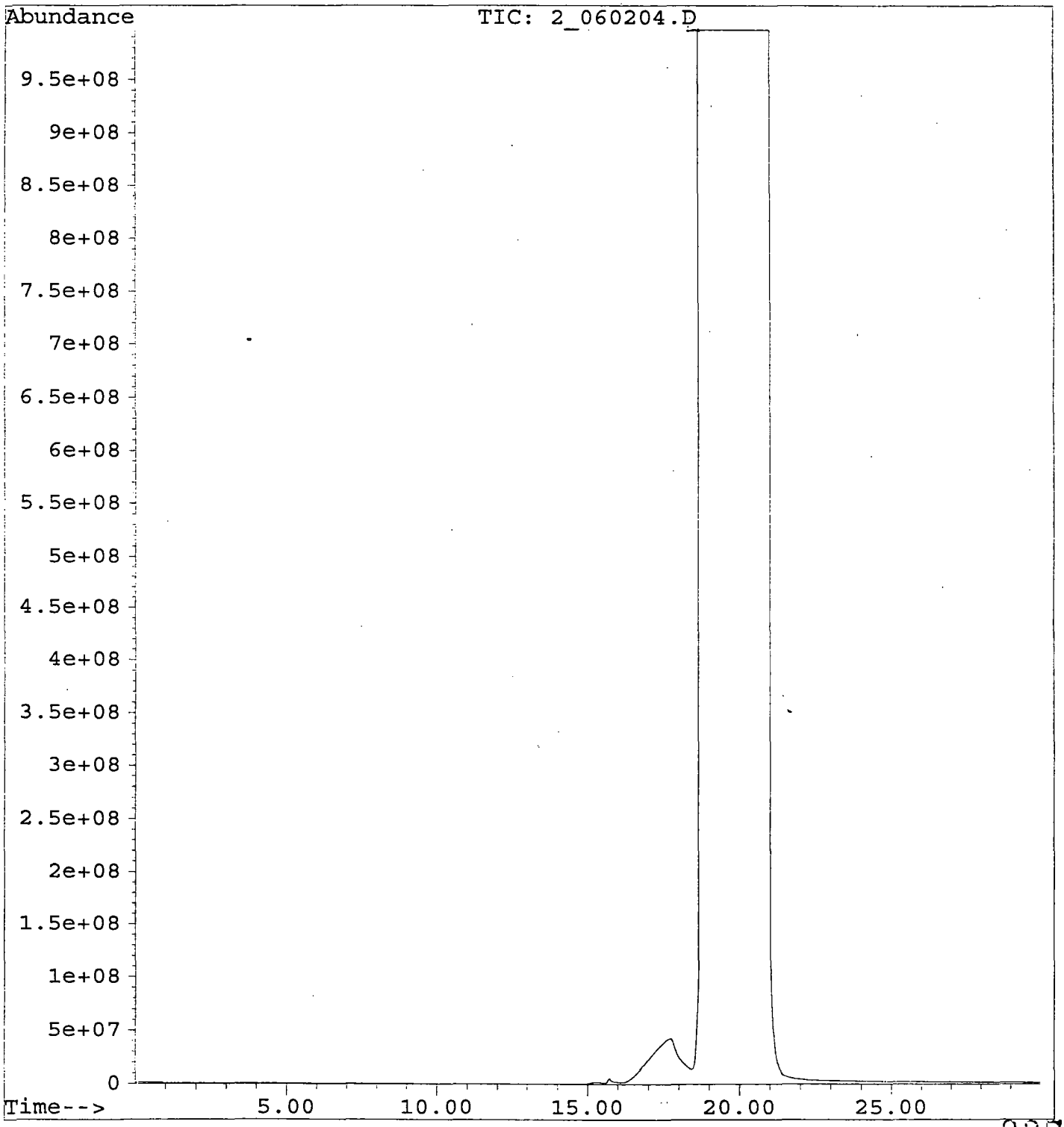
File : C:\HPCHEM\6\DATA\060201\2_060202.D
Operator : CD COL# 364134
Acquired : 02 Jun 01 16:26 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 2



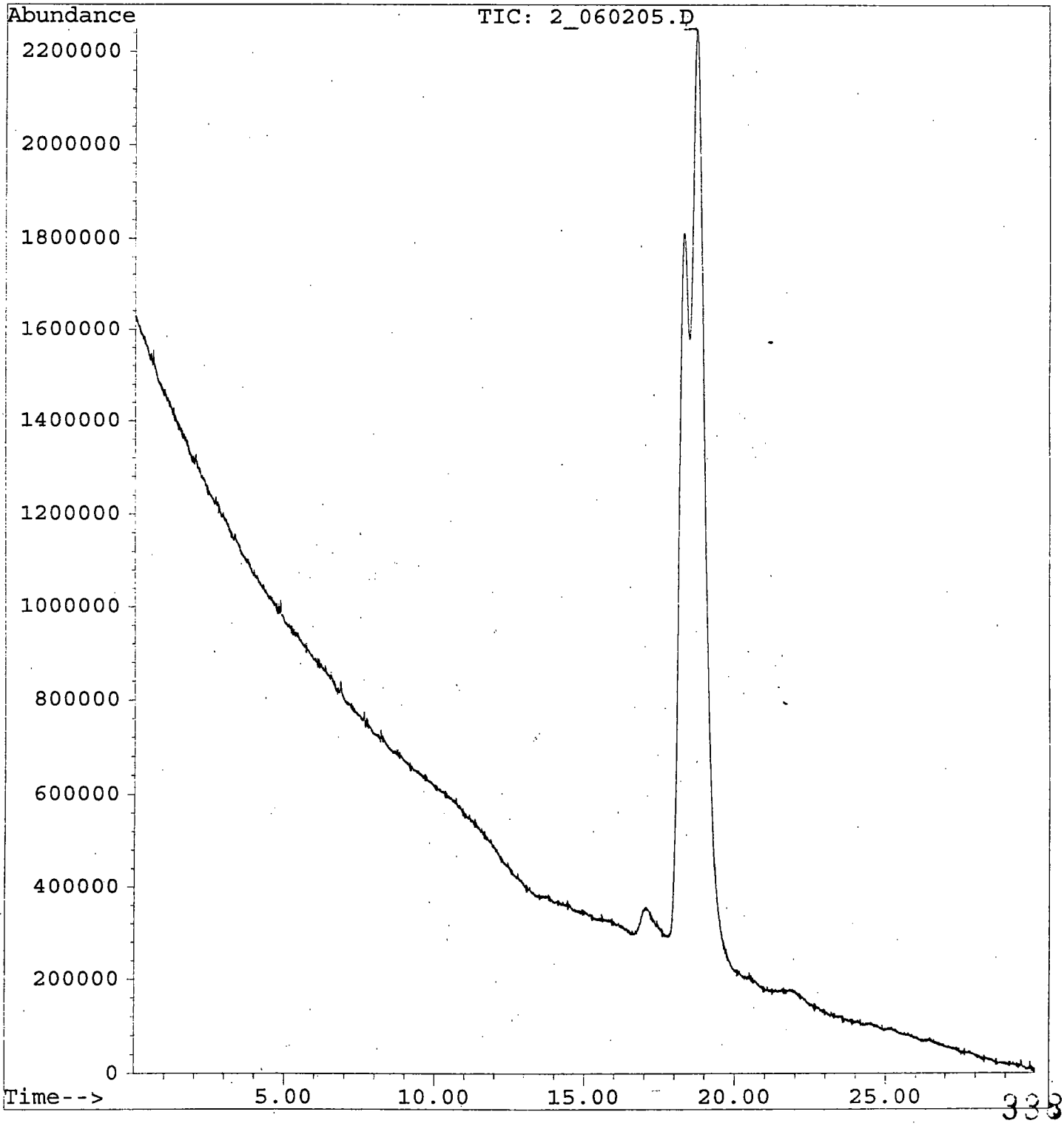
File : C:\HPCHEM\6\DATA\060201\2_060203.D
Operator : CD COL# 364134
Acquired : 02 Jun 01 16:58 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 3



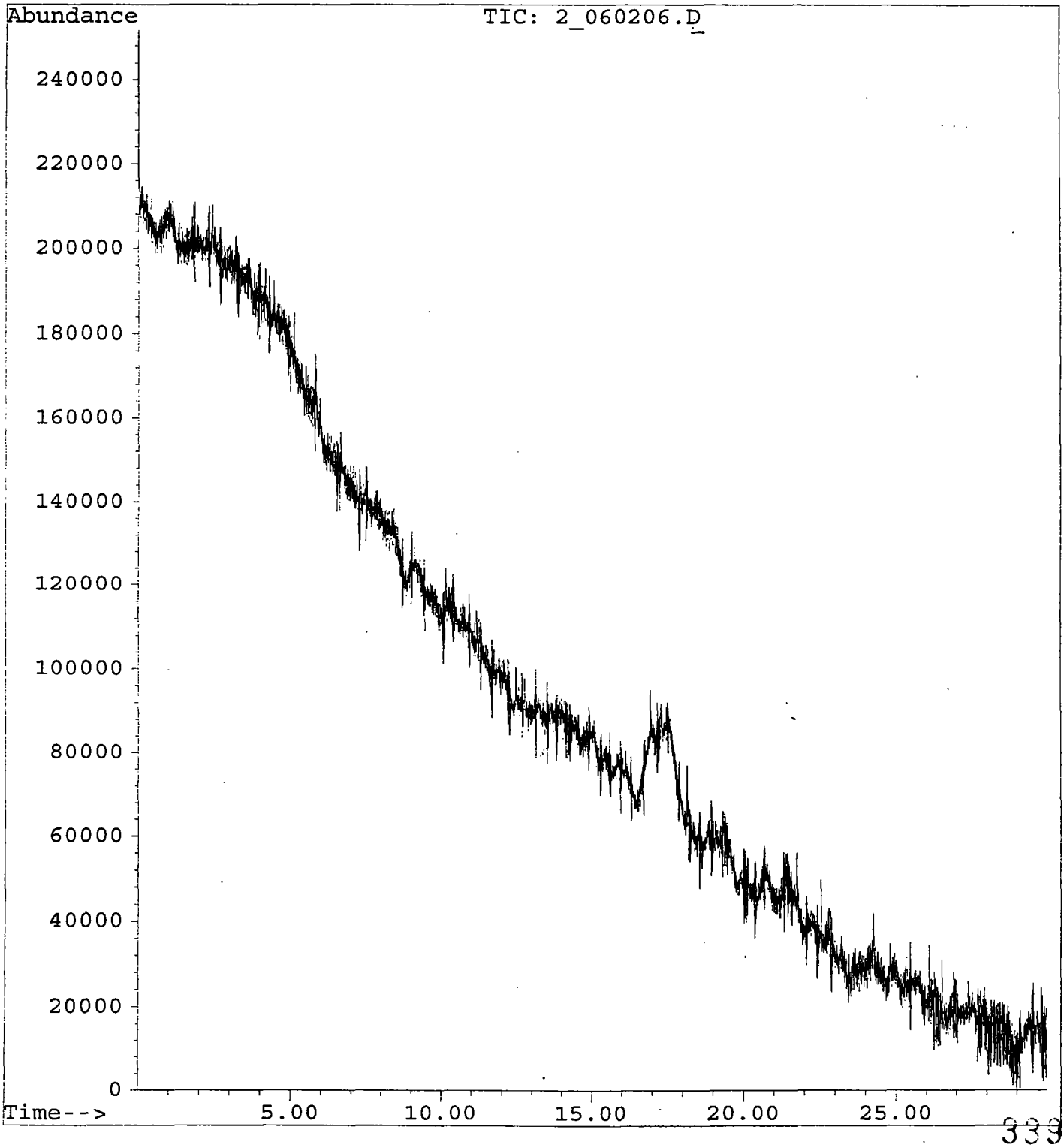
File : C:\HPCHEM\6\DATA\060201\2_060204.D
Operator : CD COL# 364134
Acquired : 02 Jun 01 17:29 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 4



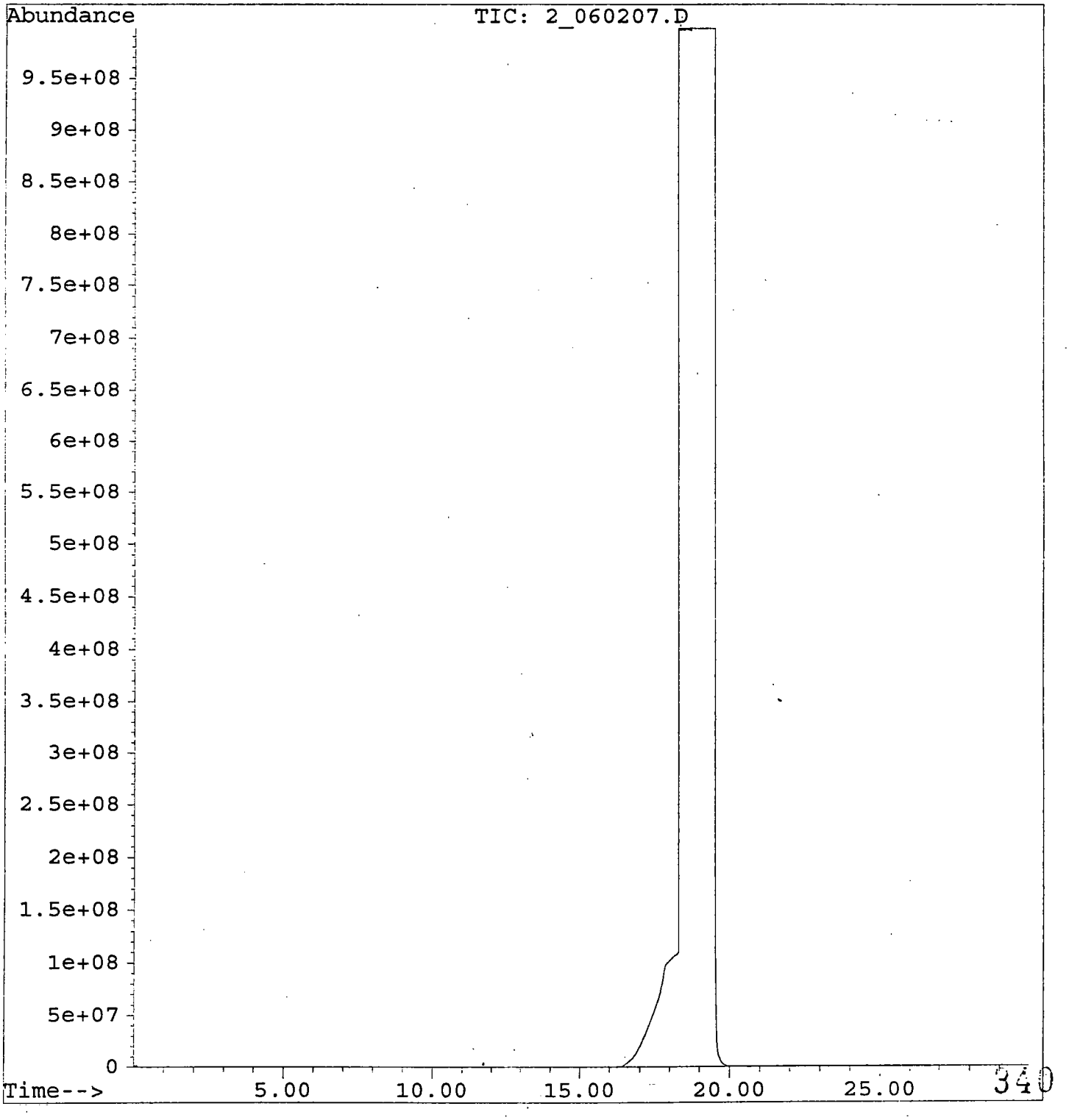
File : C:\HPCHEM\6\DATA\060201\2_060205.D
Operator : CD COL# 364134
Acquired : 02 Jun 01 18:00 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB#060201A (PEST)
Misc Info : COL# 364134
Vial Number: 5



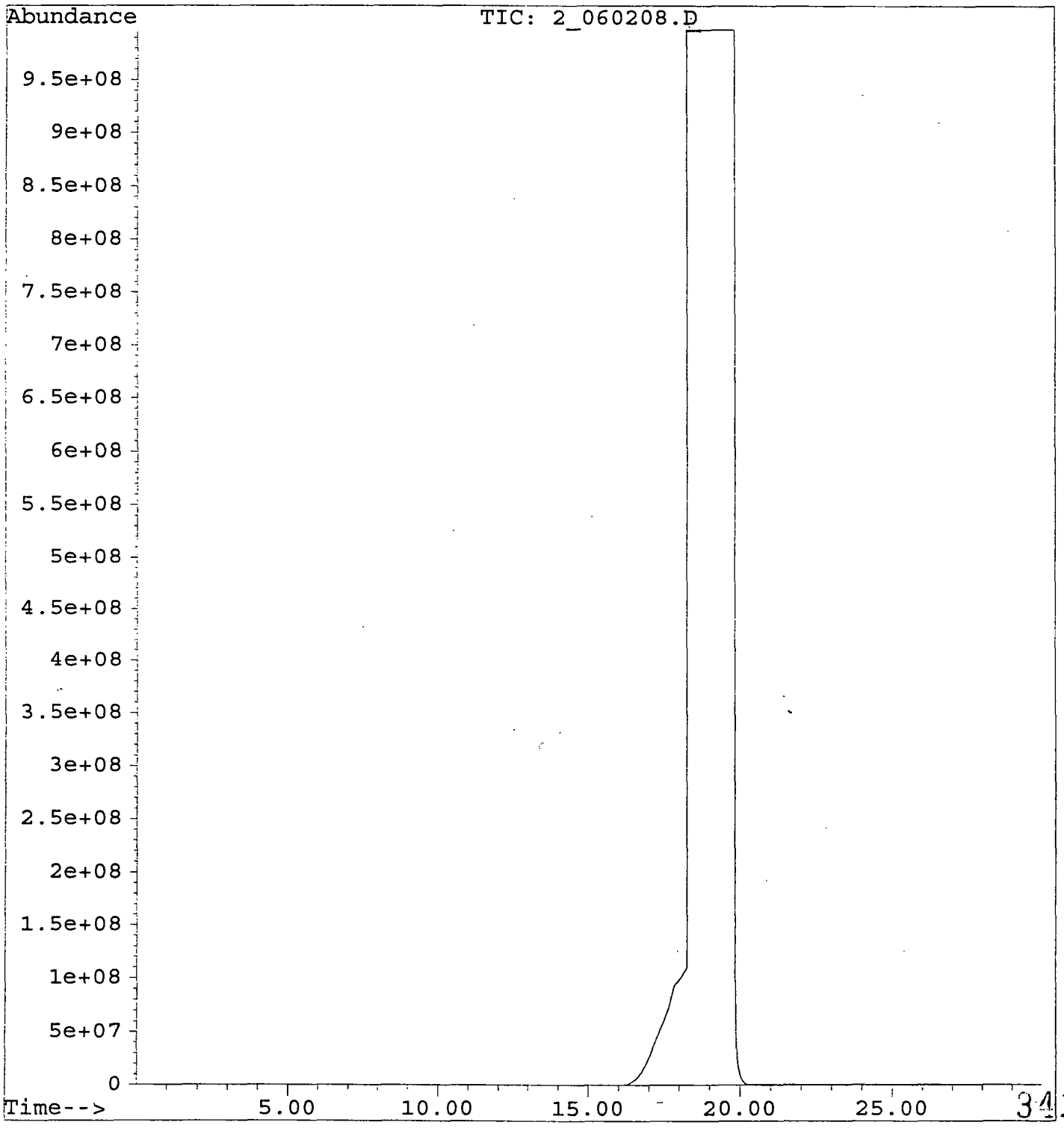
File : C:\HPCHEM\6\DATA\060201\2_060206.D
Operator : CD COL# 364134
Acquired : 02 Jun 01 18:31 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB#060201B (PEST)
Misc Info : COL# 364134
Vial Number: 6



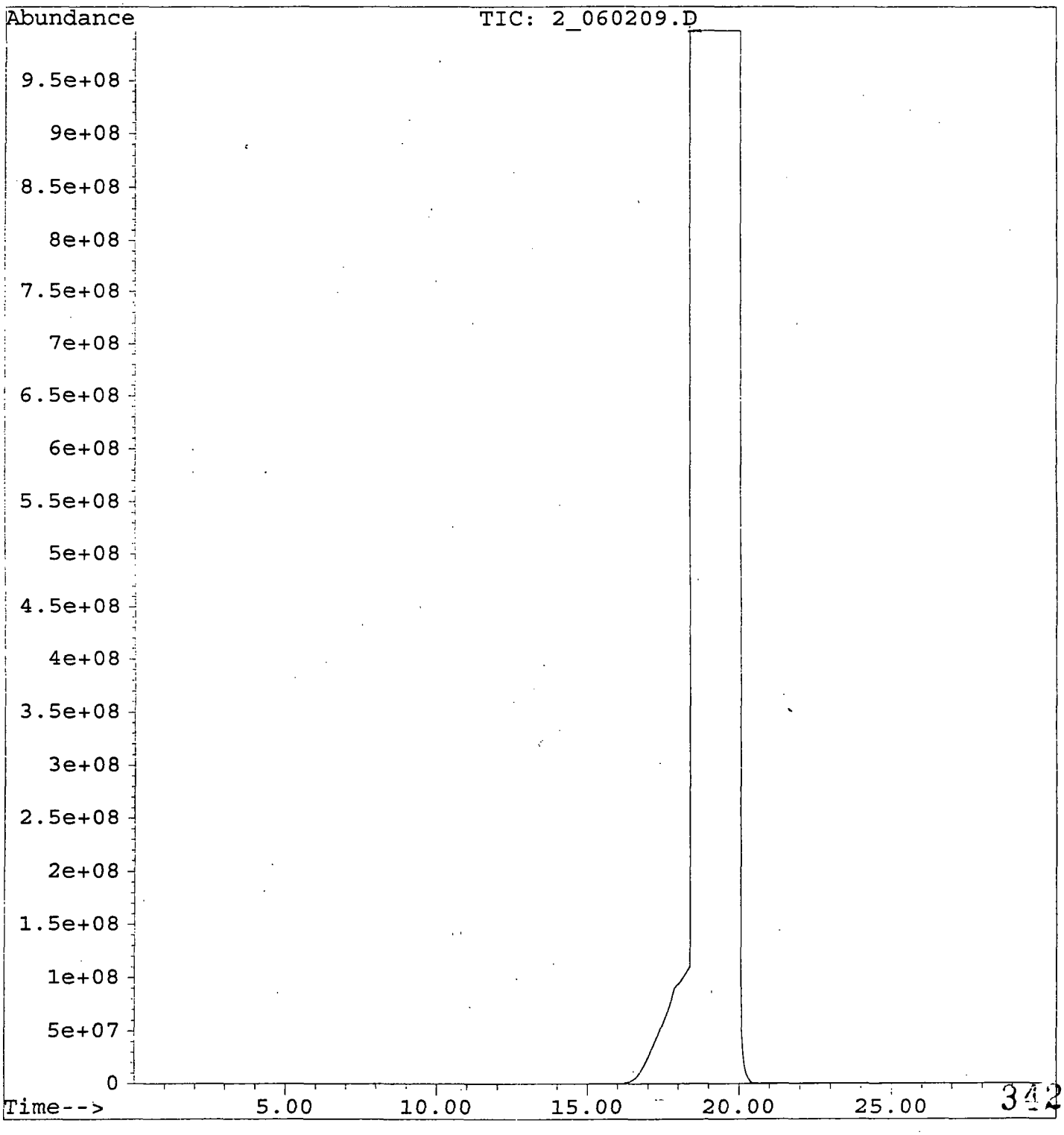
File : C:\HPCHEM\6\DATA\060201\2_060207.D
Operator : CD COL# 364134
Acquired : 02 Jun 01 19:02 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: BL0601SE-EPA
Misc Info : COL# 364134
Vial Number: 7



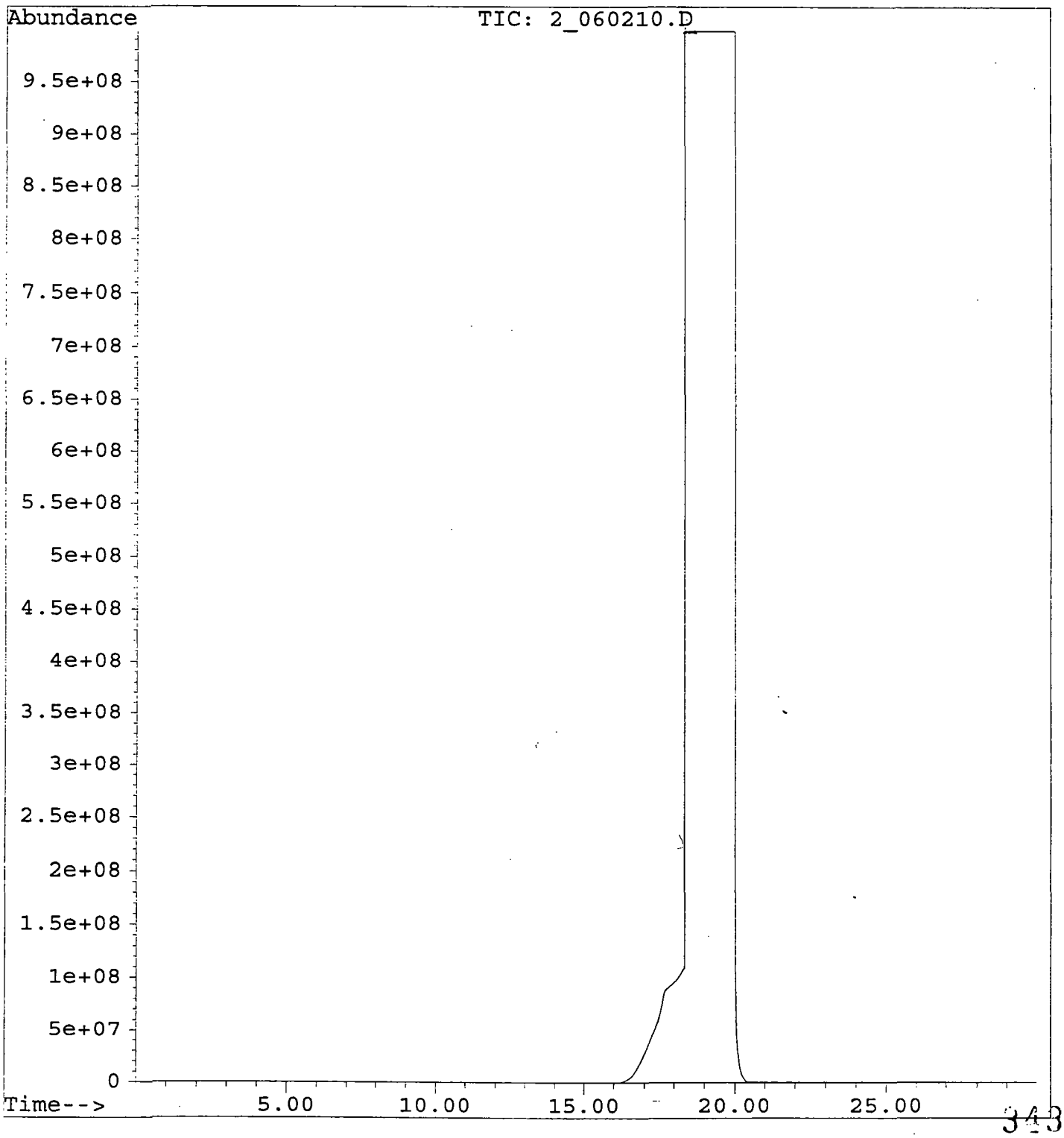
File : C:\HPCHEM\6\DATA\060201\2_060208.D
Operator : CD COL# 364134
Acquired : 02 Jun 01 19:33 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: BB0601SE-EPA
Misc Info : COL# 364134
Vial Number: 8



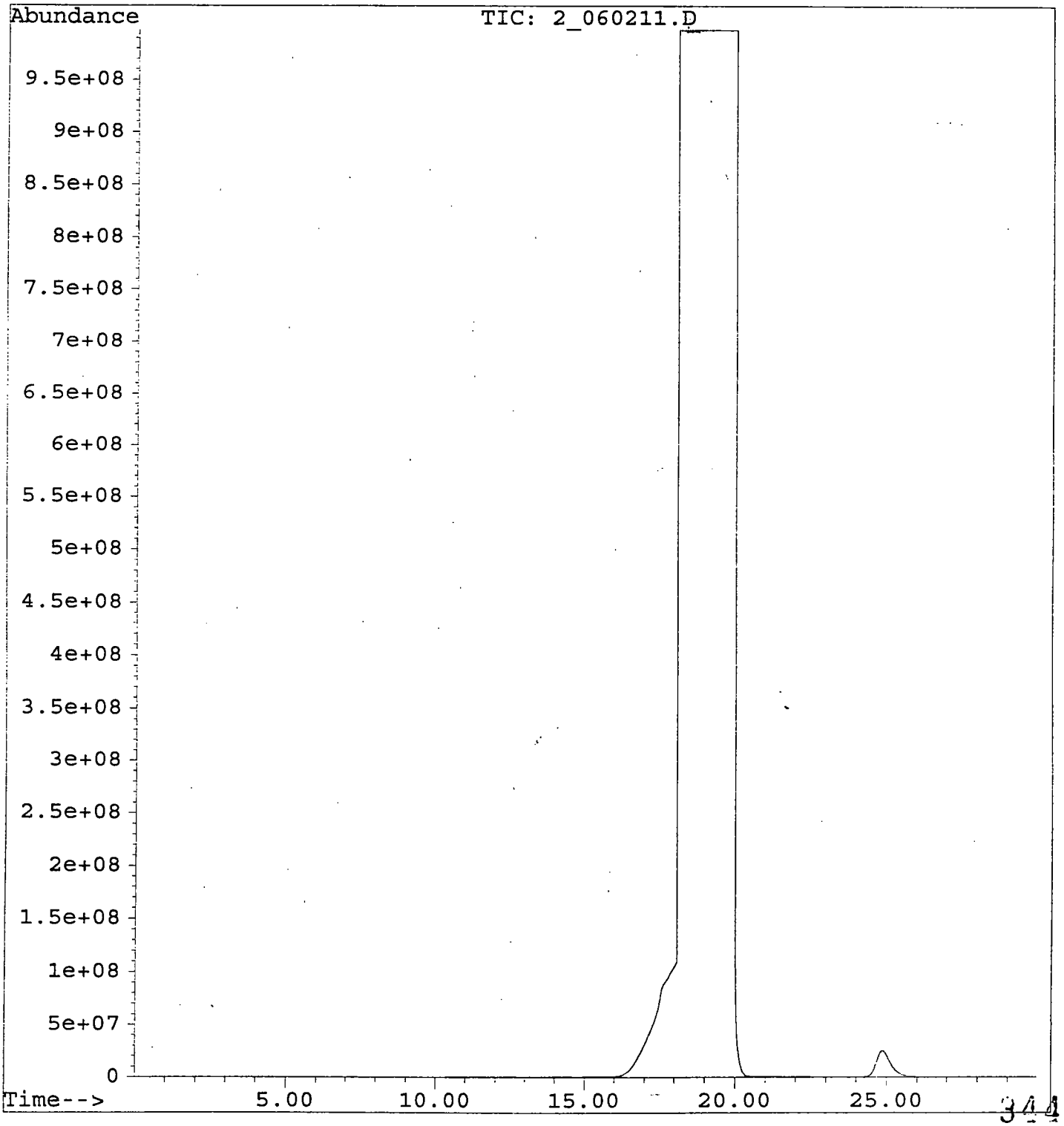
File : C:\HPCHEM\6\DATA\060201\2_060209.D
Operator : CD COL# 364134
Acquired : 02 Jun 01 20:04 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: LC0601SE-EPA
Misc Info : COL# 364134
Vial Number: 9



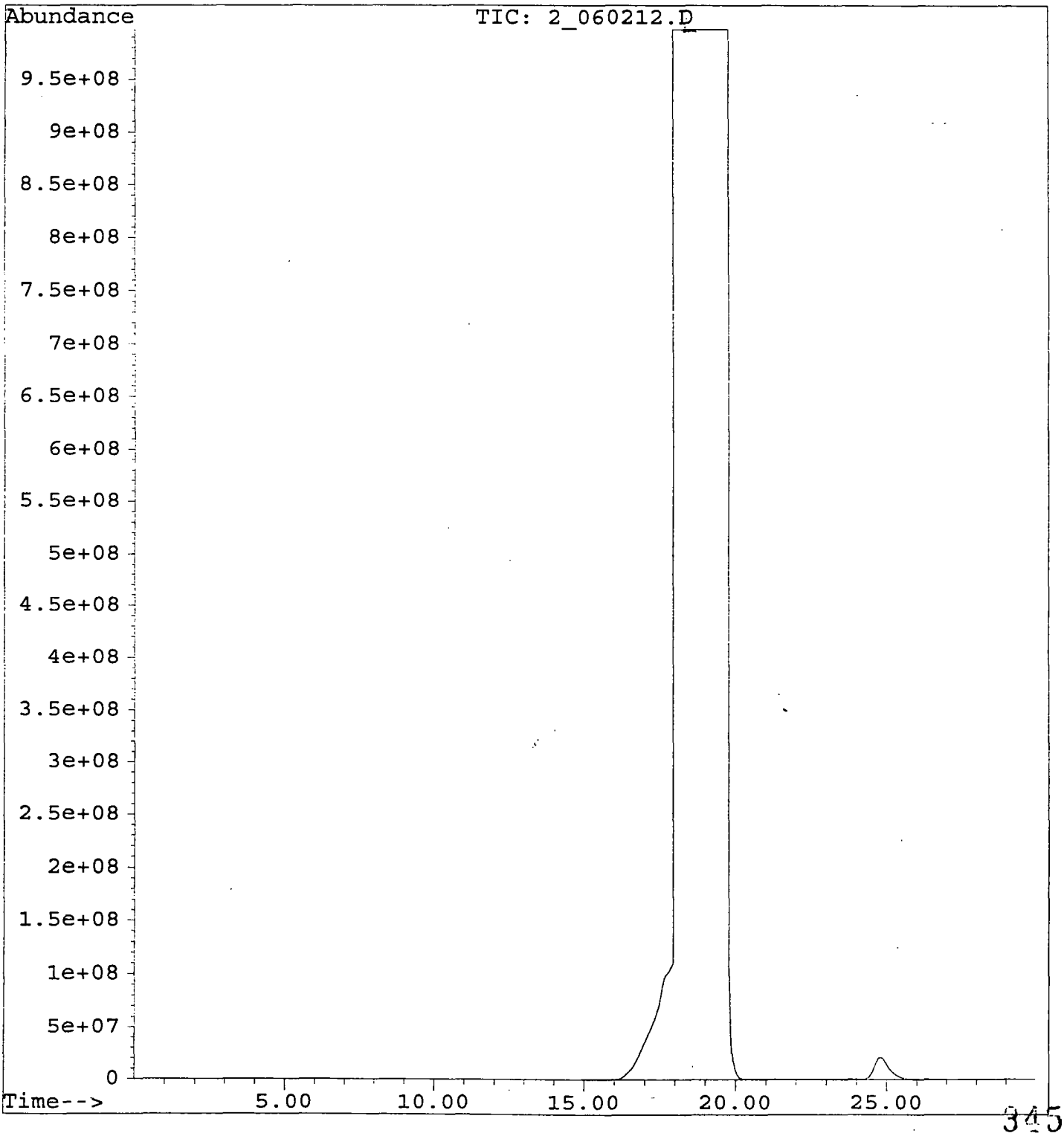
File : C:\HPCHEM\6\DATA\060201\2_060210.D
Operator : CD COL# 364134
Acquired : 02 Jun 01 20:35 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: LD0601SE-EPA
Misc Info : COL# 364134
Vial Number: 10



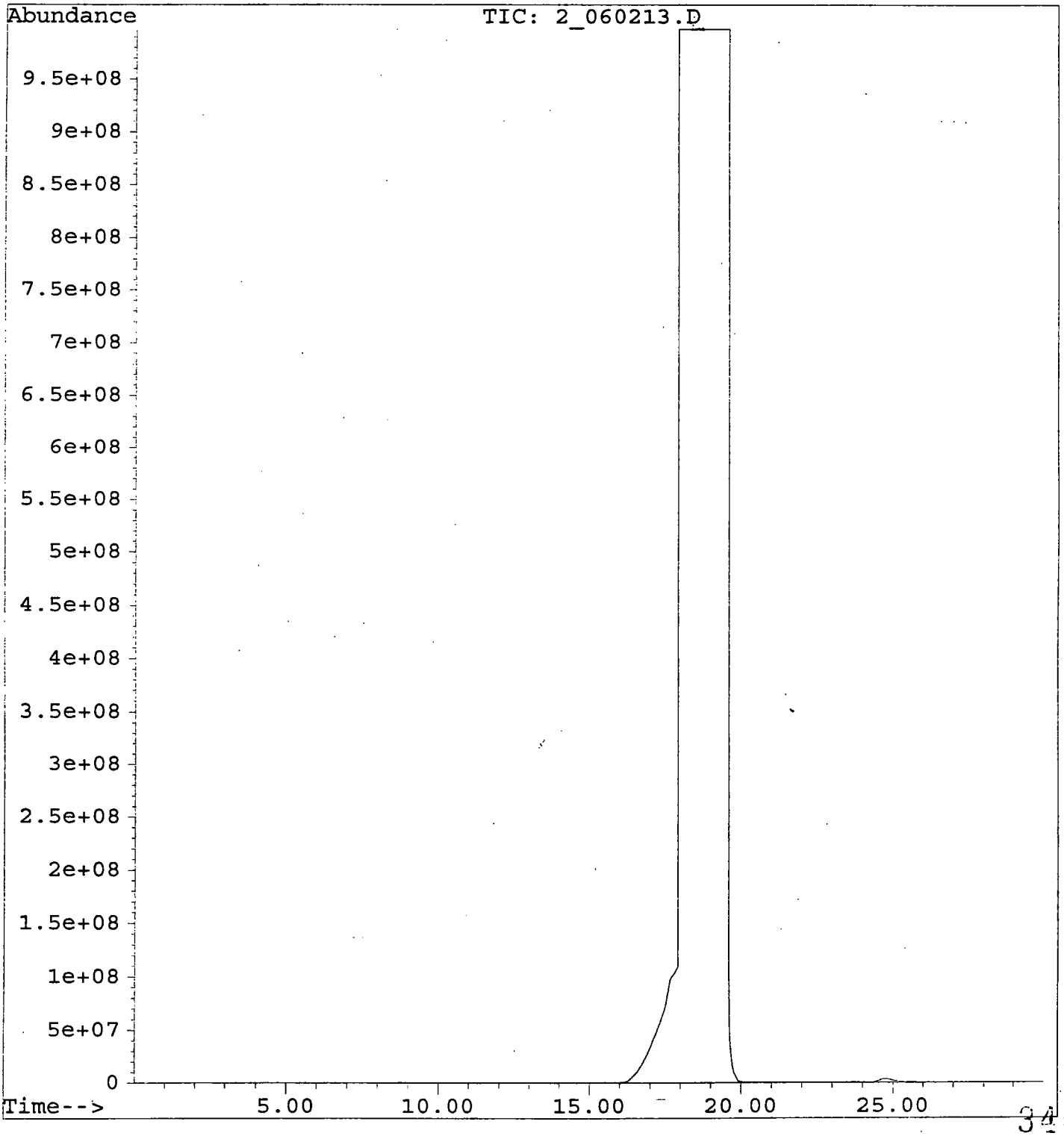
File : C:\HPCHEM\6\DATA\060201\2_060211.D
Operator : CD COL# 364134
Acquired : 02 Jun 01 21:06 using AcqMethod_GPC.MTH
Instrument : GPC2
Sample Name: 46663.19-E3OD9-EPA
Misc Info : COL# 364134
Vial Number: 11



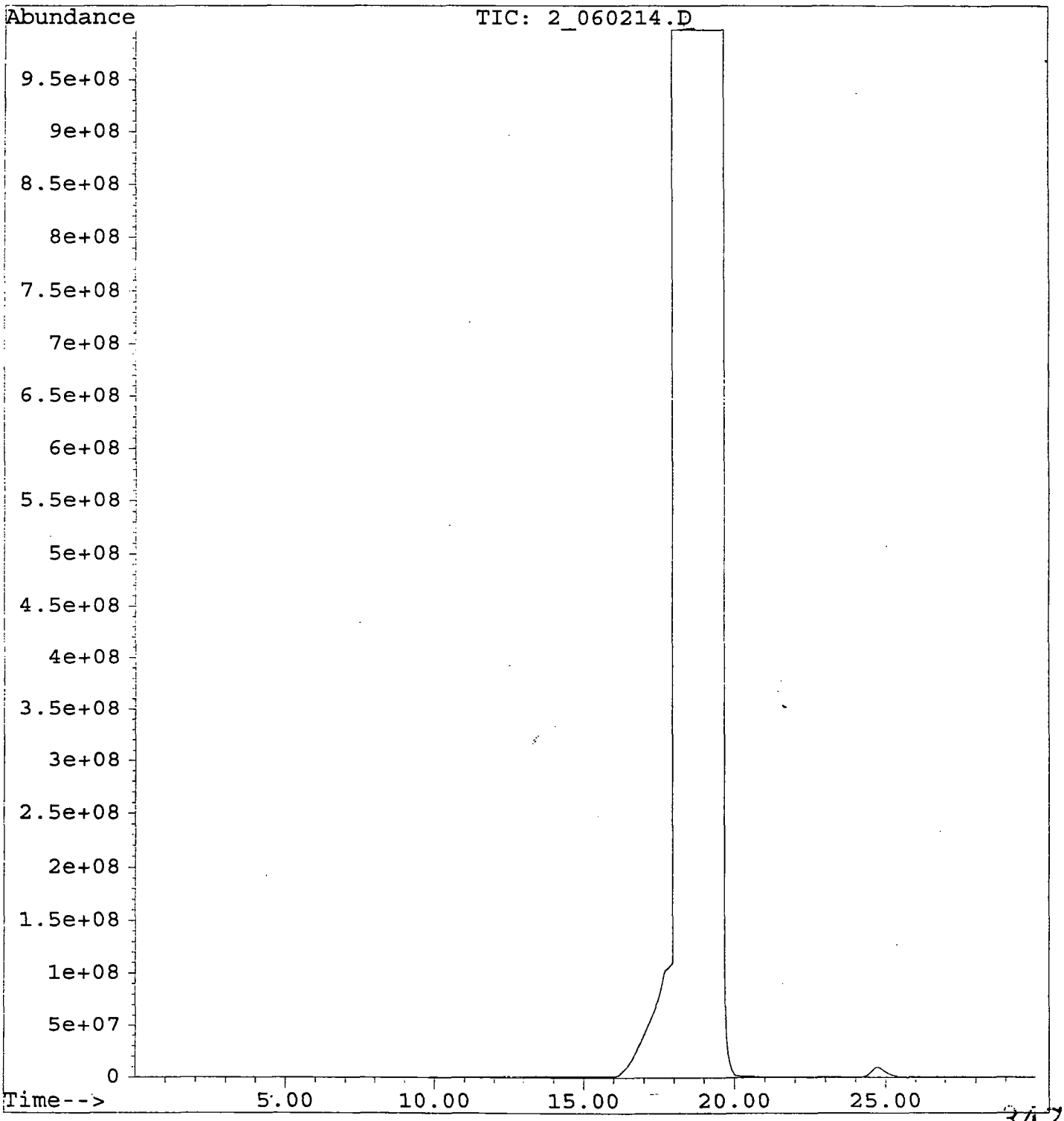
File : C:\HPCHEM\6\DATA\060201\2_060212.D
Operator : CD COL# 364134
Acquired : 02 Jun 01 21:37 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46663.20-E3OE0-EPA
Misc Info : COL# 364134
Vial Number: 12



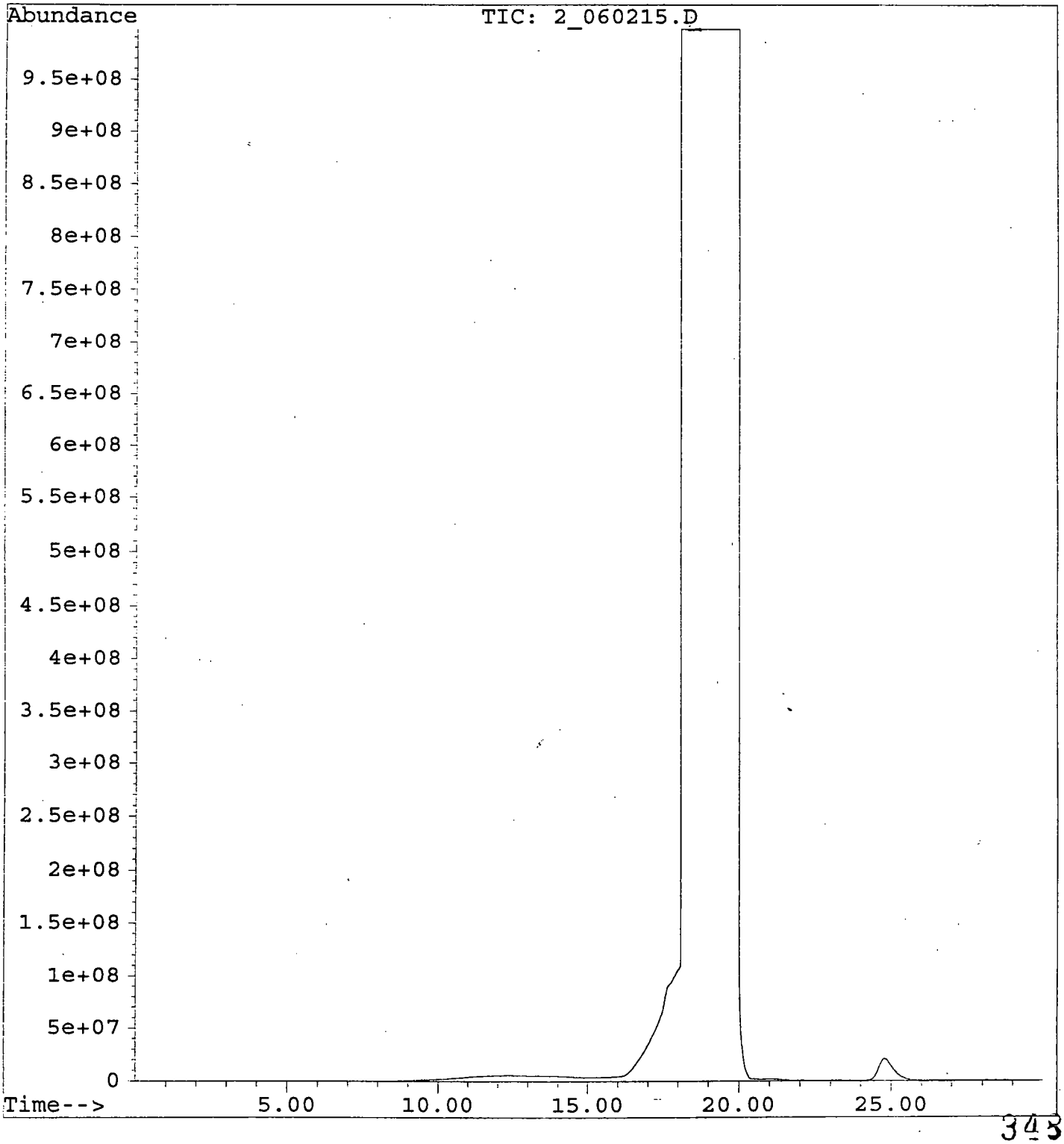
File : C:\HPCHEM\6\DATA\060201\2_060213.D
Operator : CD COL# 364134
Acquired : 02 Jun 01 22:09 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46663.08-E3OC3-EPA
Misc Info : COL# 364134
Vial Number: 13



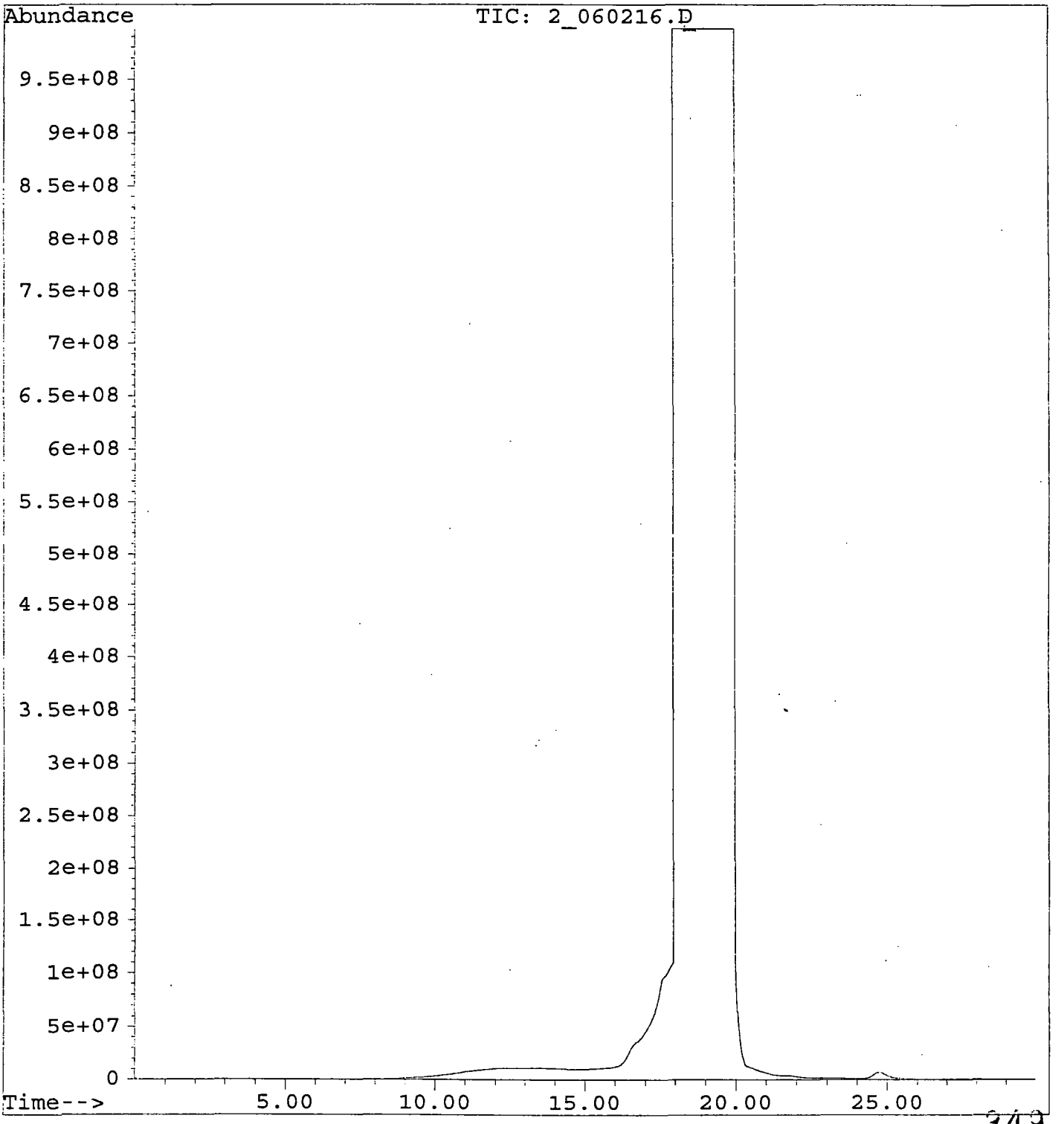
File : C:\HPCHEM\6\DATA\060201\2_060214.D
Operator : CD COL# 364134
Acquired : 02 Jun 01 22:40 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46663.09-E3OC4-EPA
Misc Info : COL# 364134
Vial Number: 14



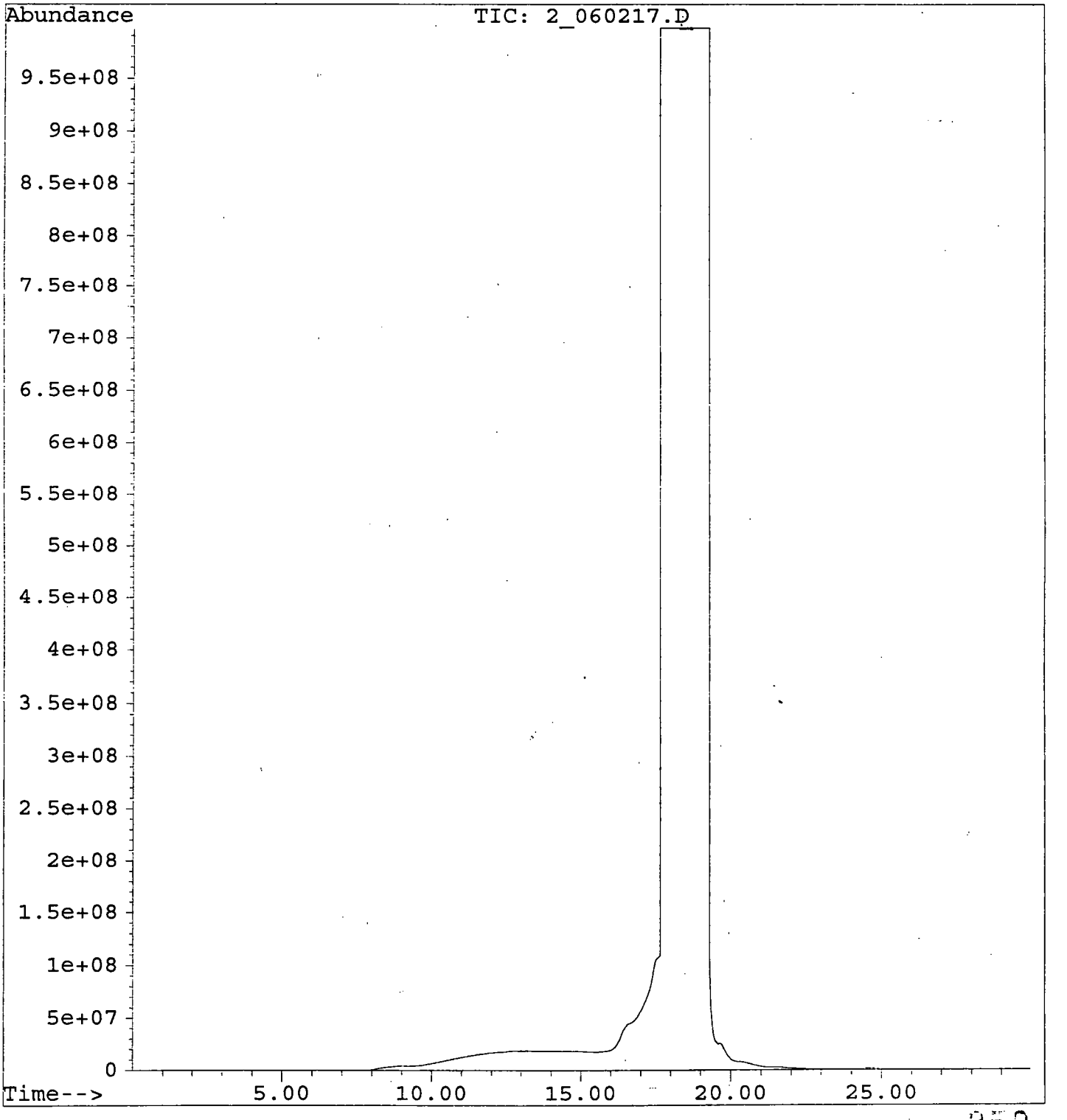
File : C:\HPCHEM\6\DATA\060201\2_060215.D
Operator : CD COL# 364134
Acquired : 02 Jun 01 23:11 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46663.15-E3OD5-EPA
Misc Info : COL# 364134
Vial Number: 15



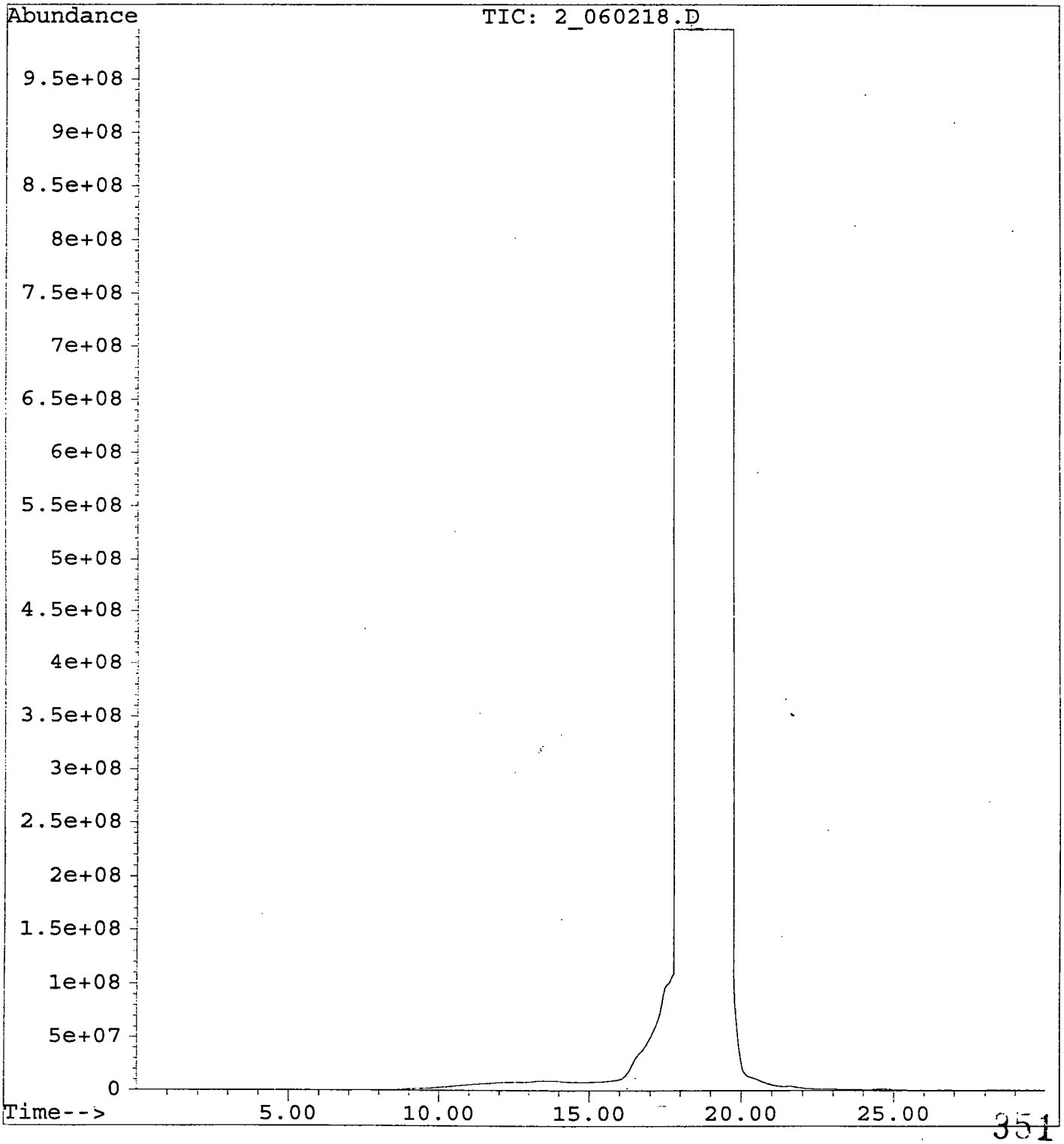
File : C:\HPCHEM\6\DATA\060201\2_060216.D
Operator : CD COL# 364134
Acquired : 02 Jun 01 23:42 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46663.16-E3OD6-EPA
Misc Info : COL# 364134
Vial Number: 16



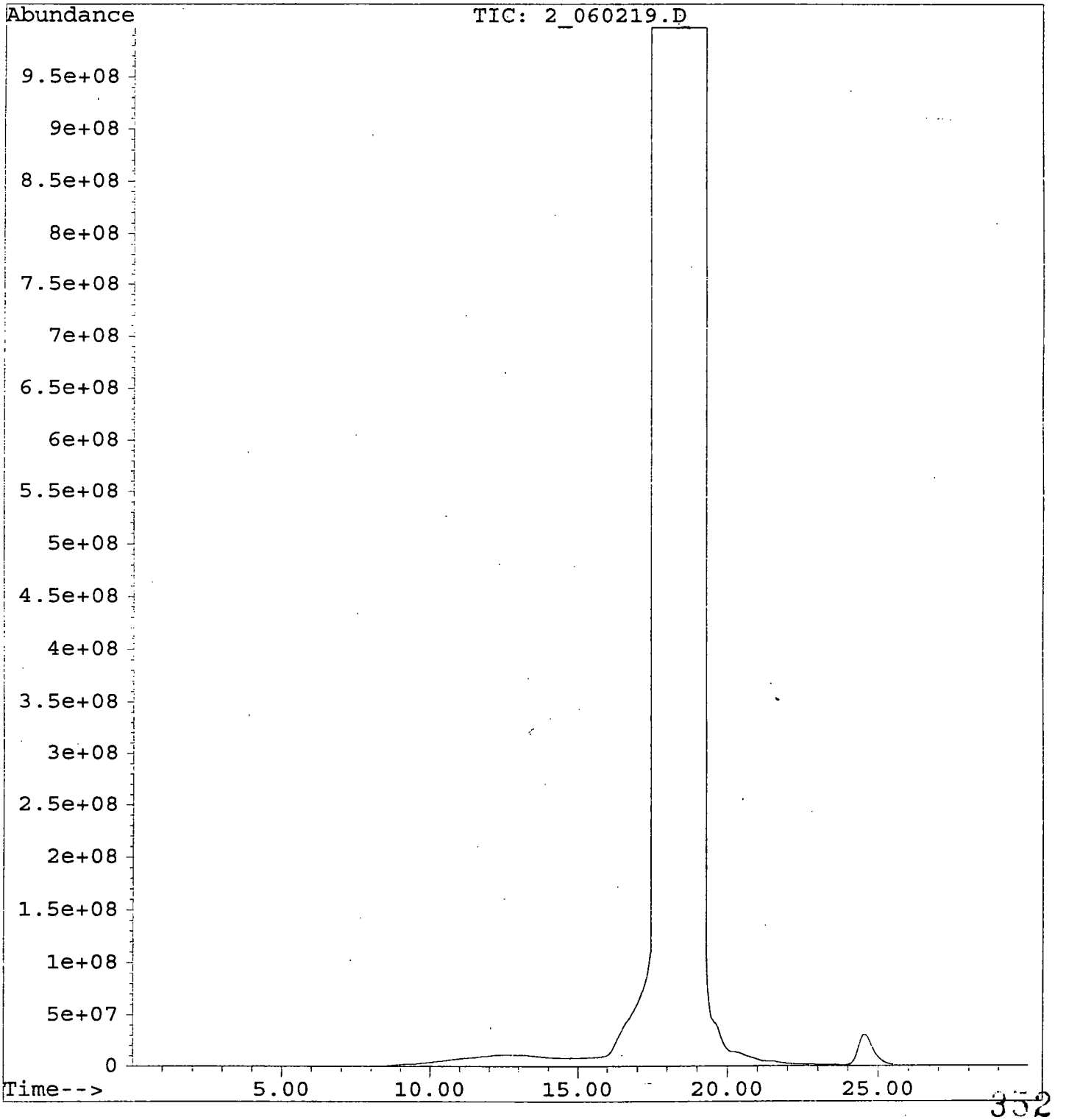
File : C:\HPCHEM\6\DATA\060201\2_060217.D
Operator : CD COL# 364134
Acquired : 03 Jun 01 00:13 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46663.17-E3OD7-EPA
Misc Info : COL# 364134
Vial Number: 17



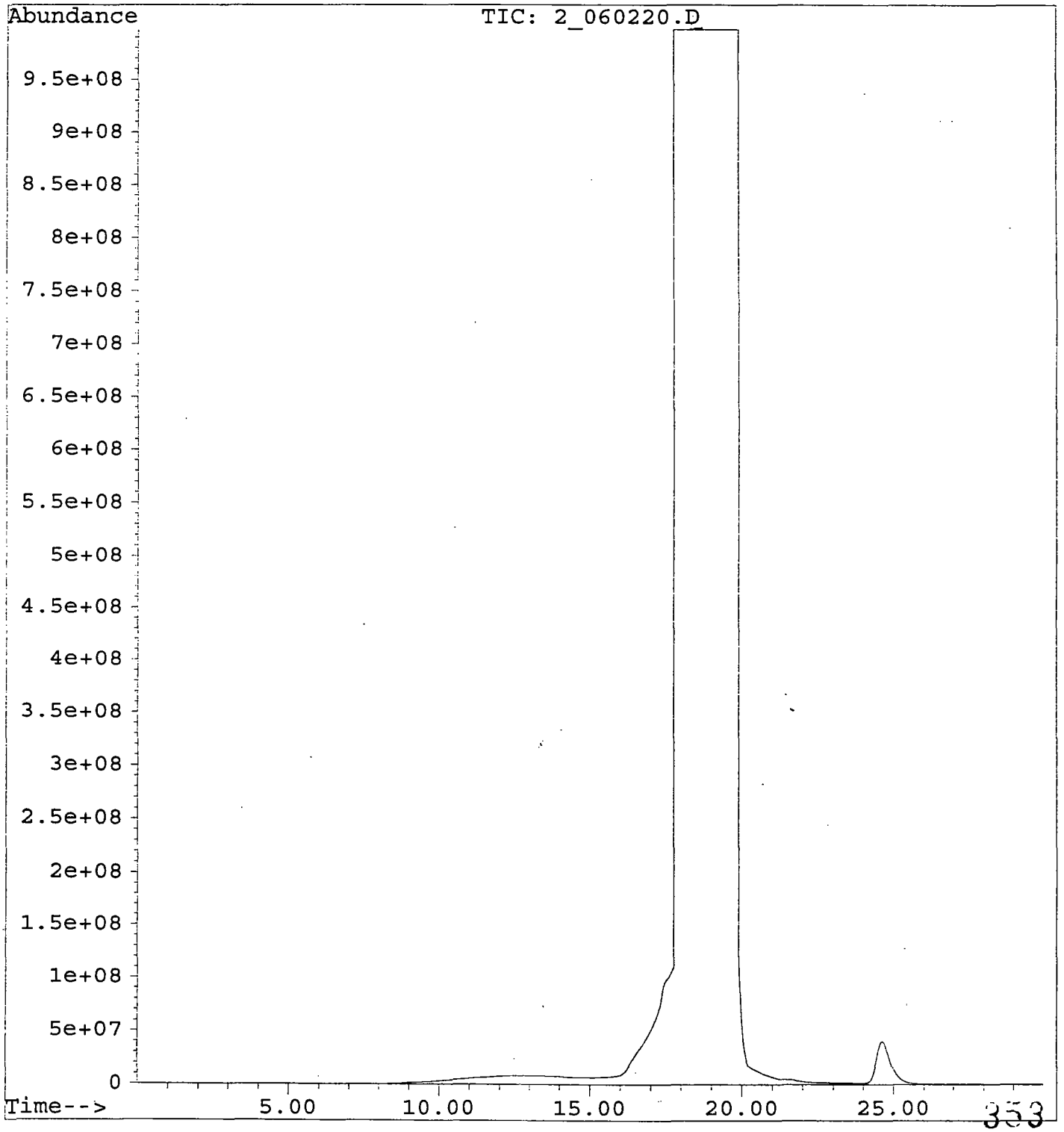
File : C:\HPCHEM\6\DATA\060201\2_060218.D
Operator : CD COL# 364134
Acquired : 03 Jun 01 00:44 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46663.18-E3OD8-EPA
Misc Info : COL# 364134
Vial Number: 18



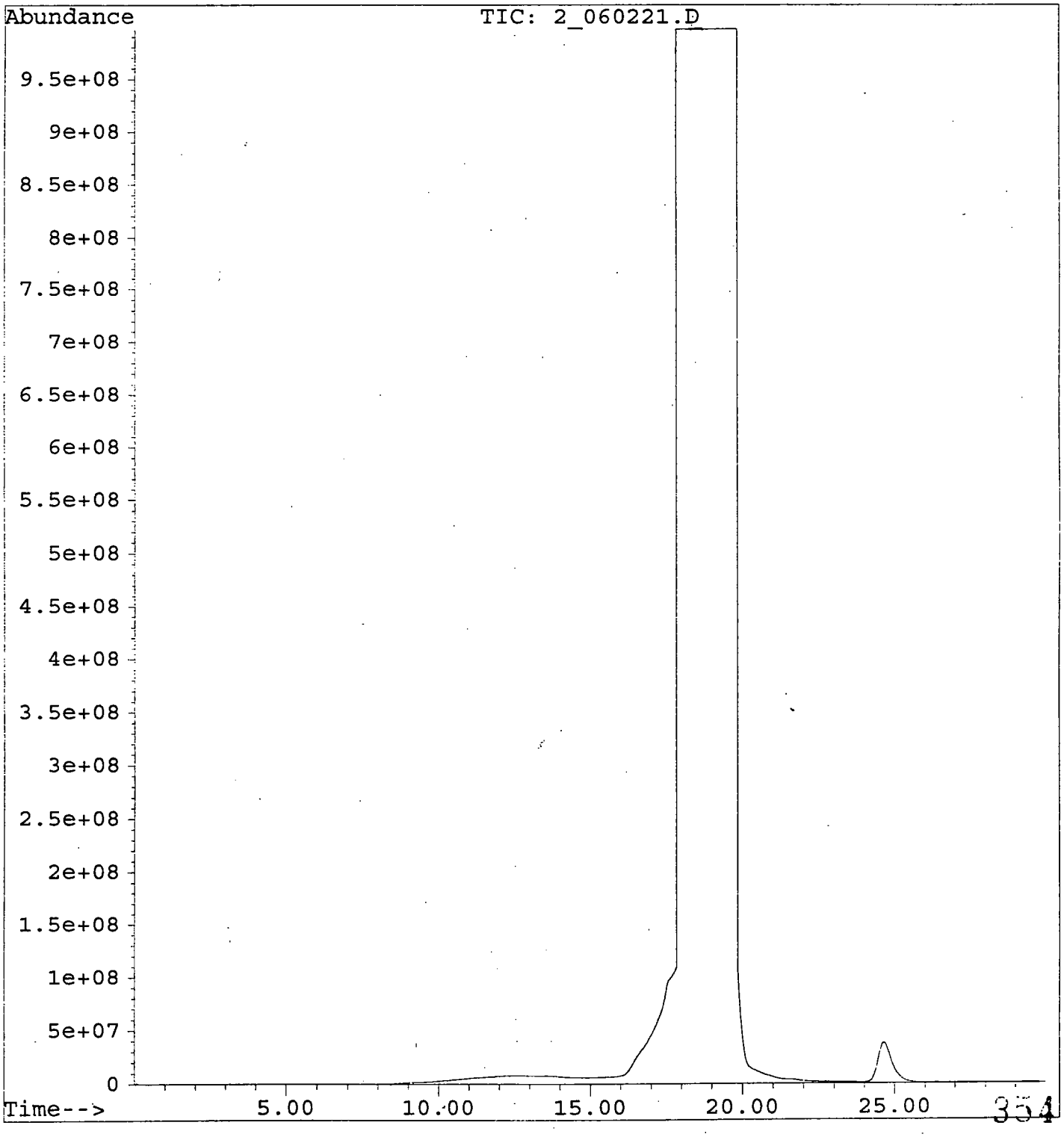
File : C:\HPCHEM\6\DATA\060201\2_060219.D
Operator : CD COL# 364134
Acquired : 03 Jun 01 01:15 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46663.03-E3OCO-EPA
Misc Info : COL# 364134
Vial Number: 19



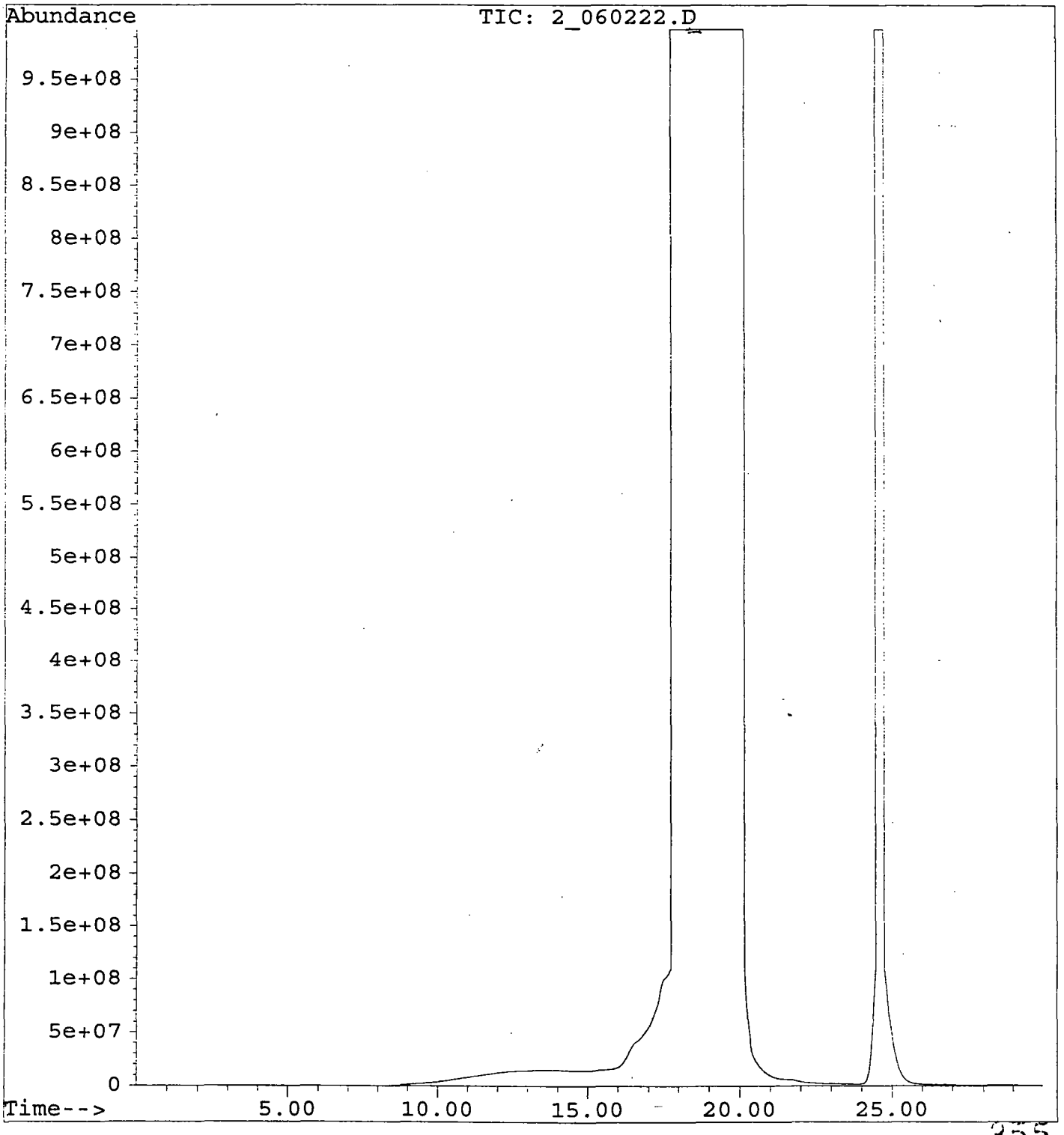
File : C:\HPCHEM\6\DATA\060201\2_060220.D
Operator : CD COL# 364134
Acquired : 03 Jun 01 01:46 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46663.04-MS-E3OCO-EPA
Misc Info : COL# 364134
Vial Number: 20



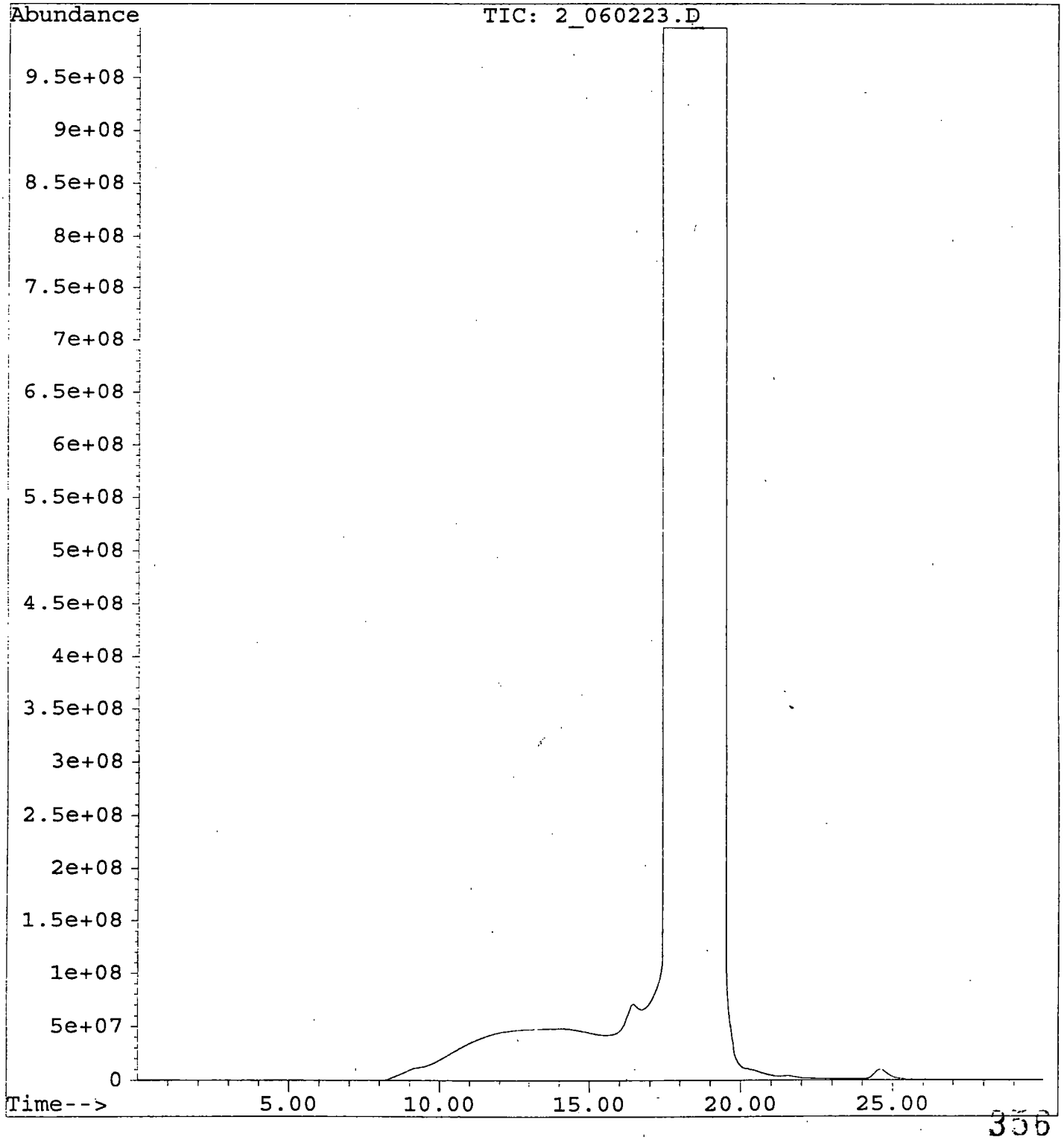
File : C:\HPCHEM\6\DATA\060201\2_060221.D
Operator : CD COL# 364134
Acquired : 03 Jun 01 02:17 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46663.05-MSD-E3OCO-EPA
Misc Info : COL# 364134
Vial Number: 21



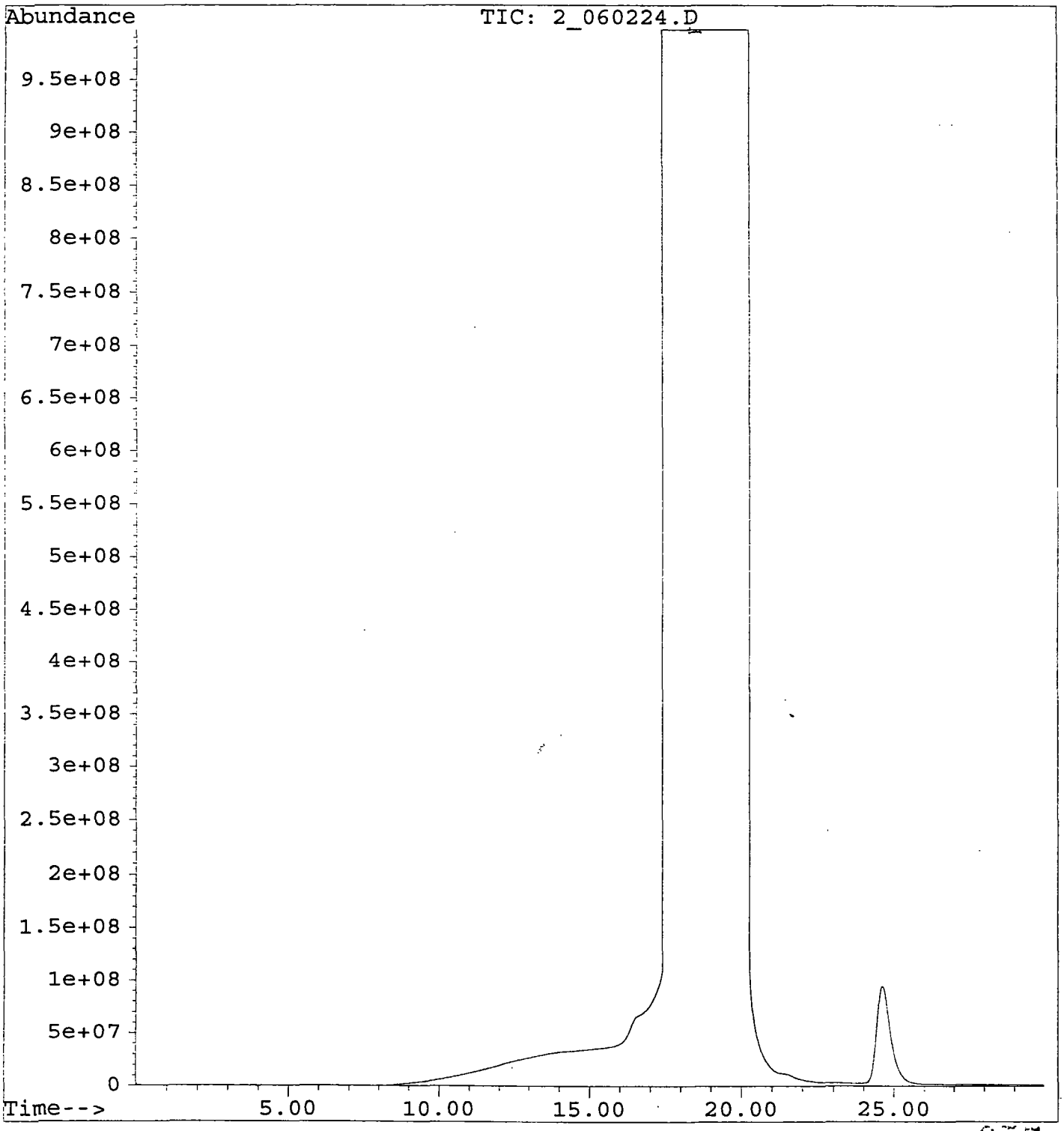
File : C:\HPCHEM\6\DATA\060201\2_060222.D
Operator : CD COL# 364134
Acquired : 03 Jun 01 02:48 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46663.12-E3OC7-EPA
Misc Info : COL# 364134
Vial Number: 22



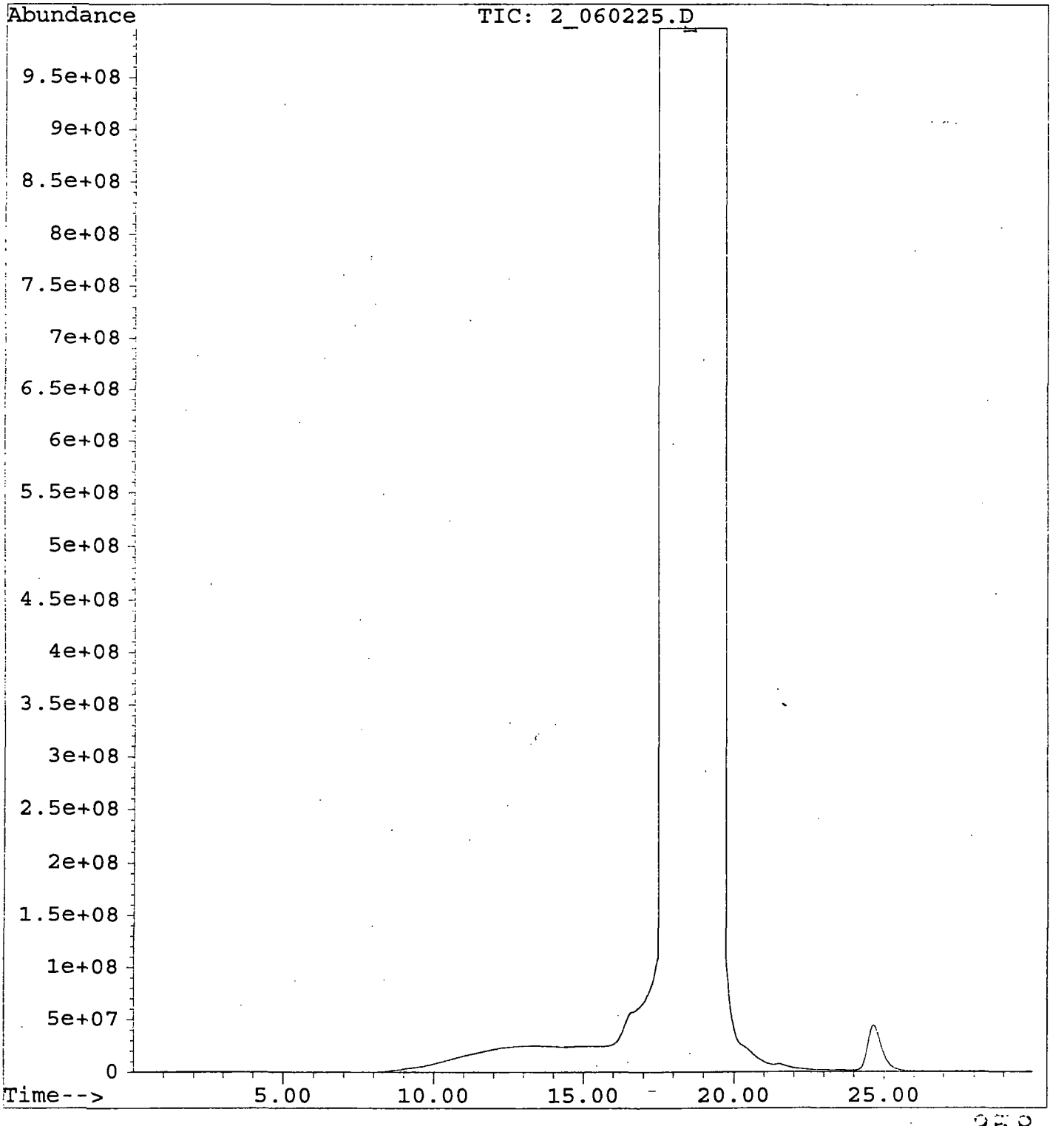
File : C:\HPCHEM\6\DATA\060201\2_060223.D
Operator : CD COL# 364134
Acquired : 03 Jun 01 03:20 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46663.13-E3OD3-EPA
Misc Info : COL# 364134
Vial Number: 23



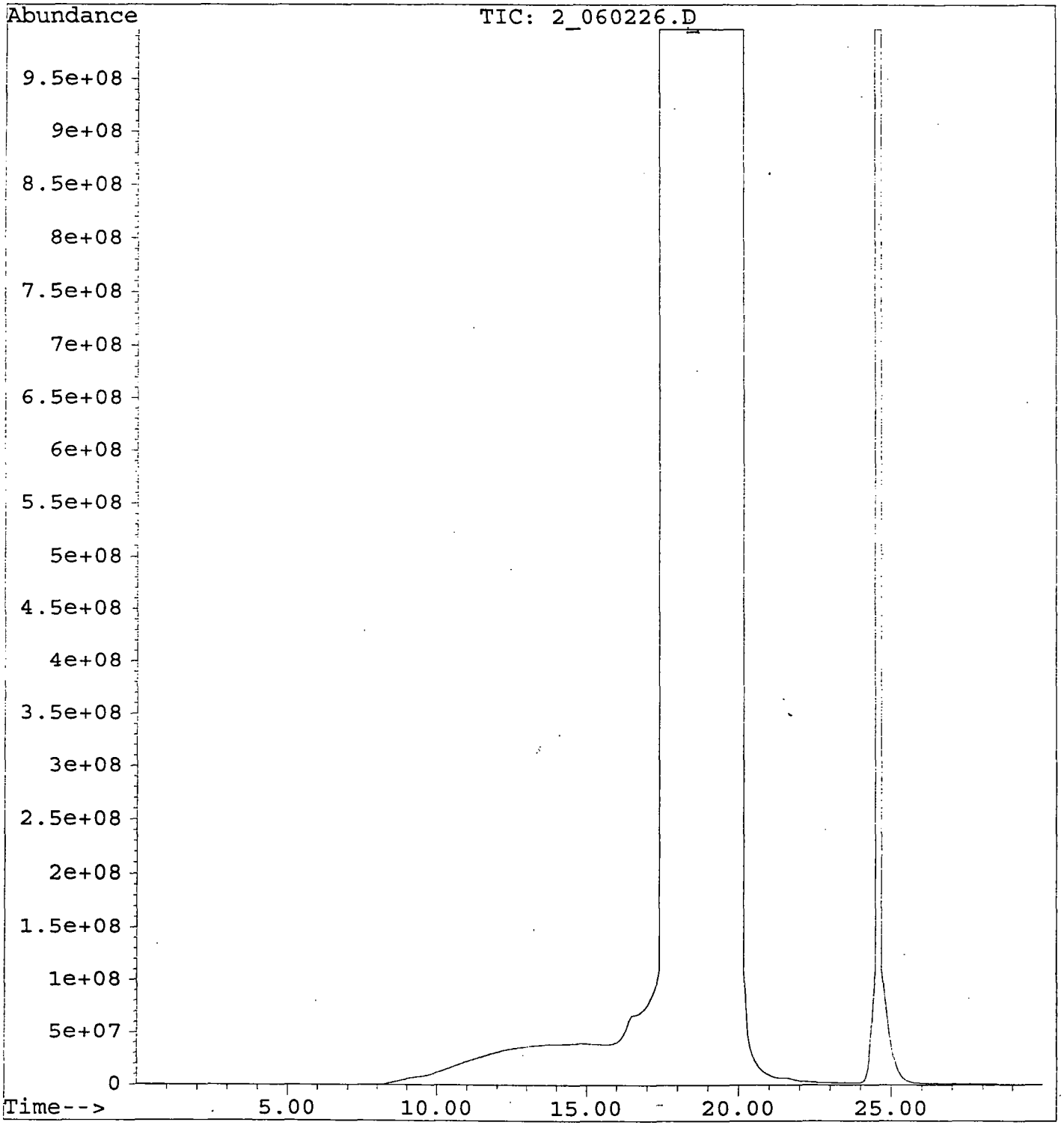
File : C:\HPCHEM\6\DATA\060201\2_060224.D
Operator : CD COL# 364134
Acquired : 03 Jun 01 03:51 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46663.01-E3OB8-EPA
Misc Info : COL# 364134
Vial Number: 24



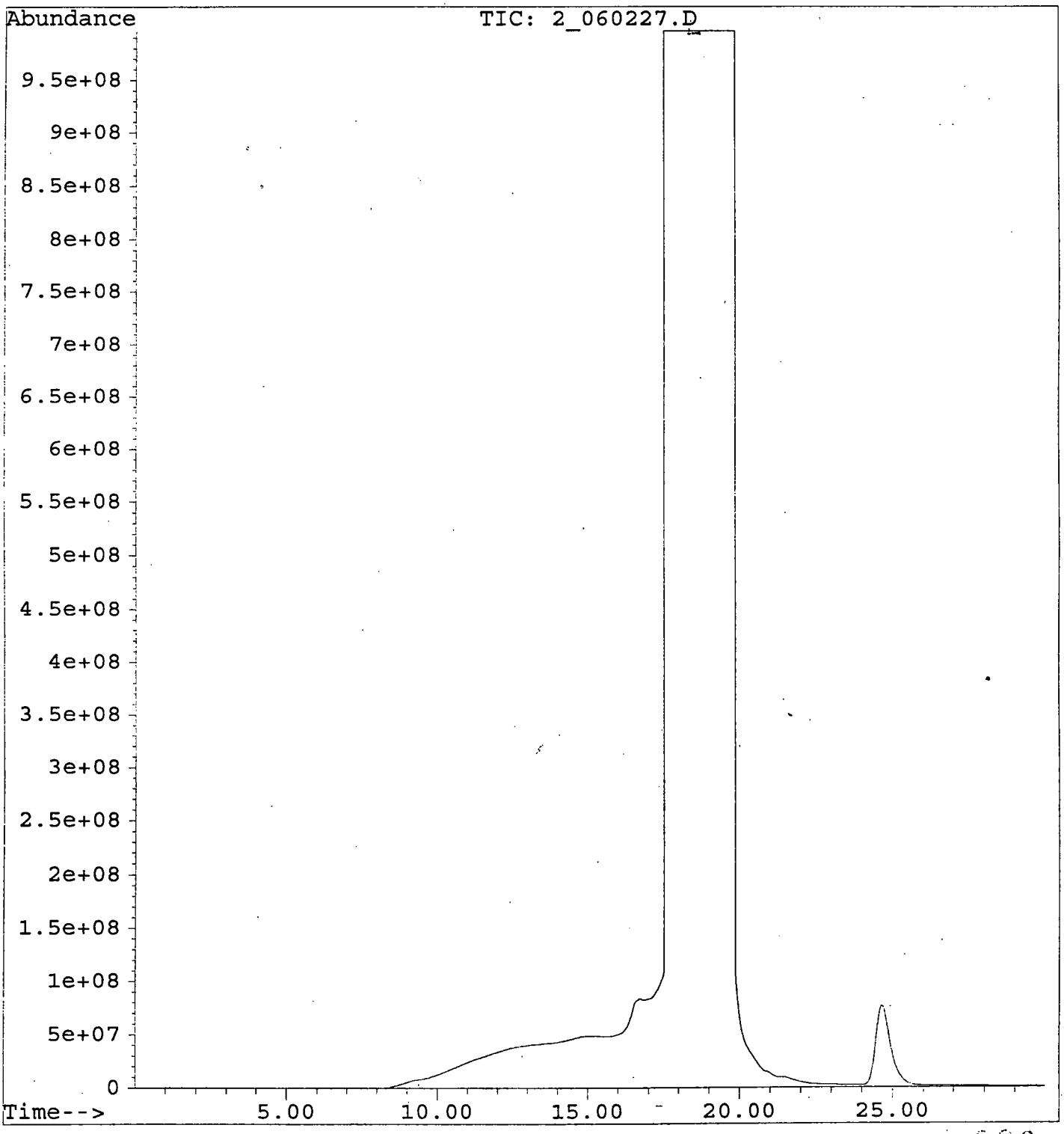
File : C:\HPCHEM\6\DATA\060201\2_060225.D
Operator : CD COL# 364134
Acquired : 03 Jun 01 04:22 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46663.02-E3OB9-EPA
Misc Info : COL# 364134
Vial Number: 25



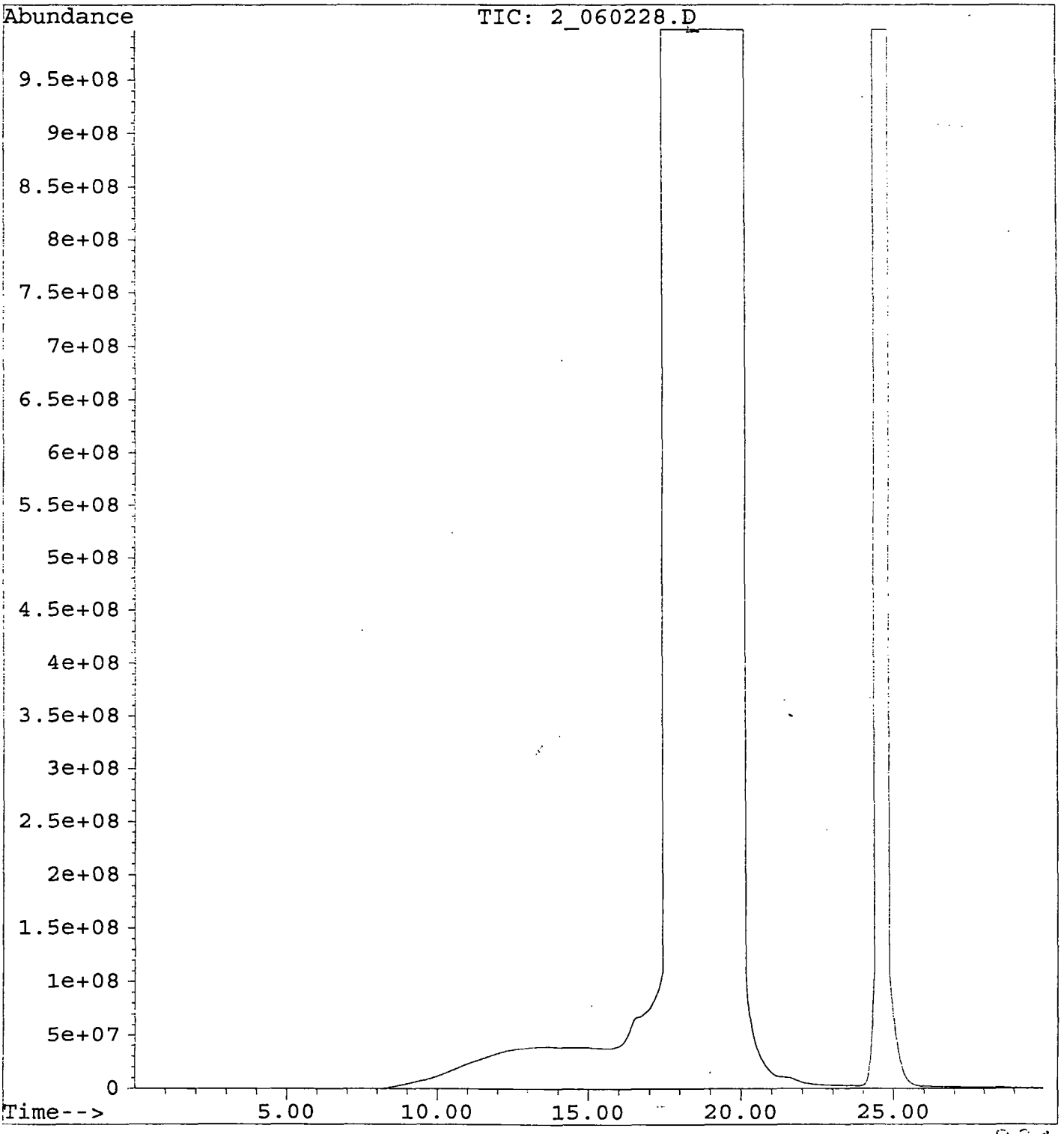
File : C:\HPCHEM\6\DATA\060201\2_060226.D
Operator : CD COL# 364134
Acquired : 03 Jun 01 04:53 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46663.06-E3OC1-EPA
Misc Info : COL# 364134
Vial Number: 26



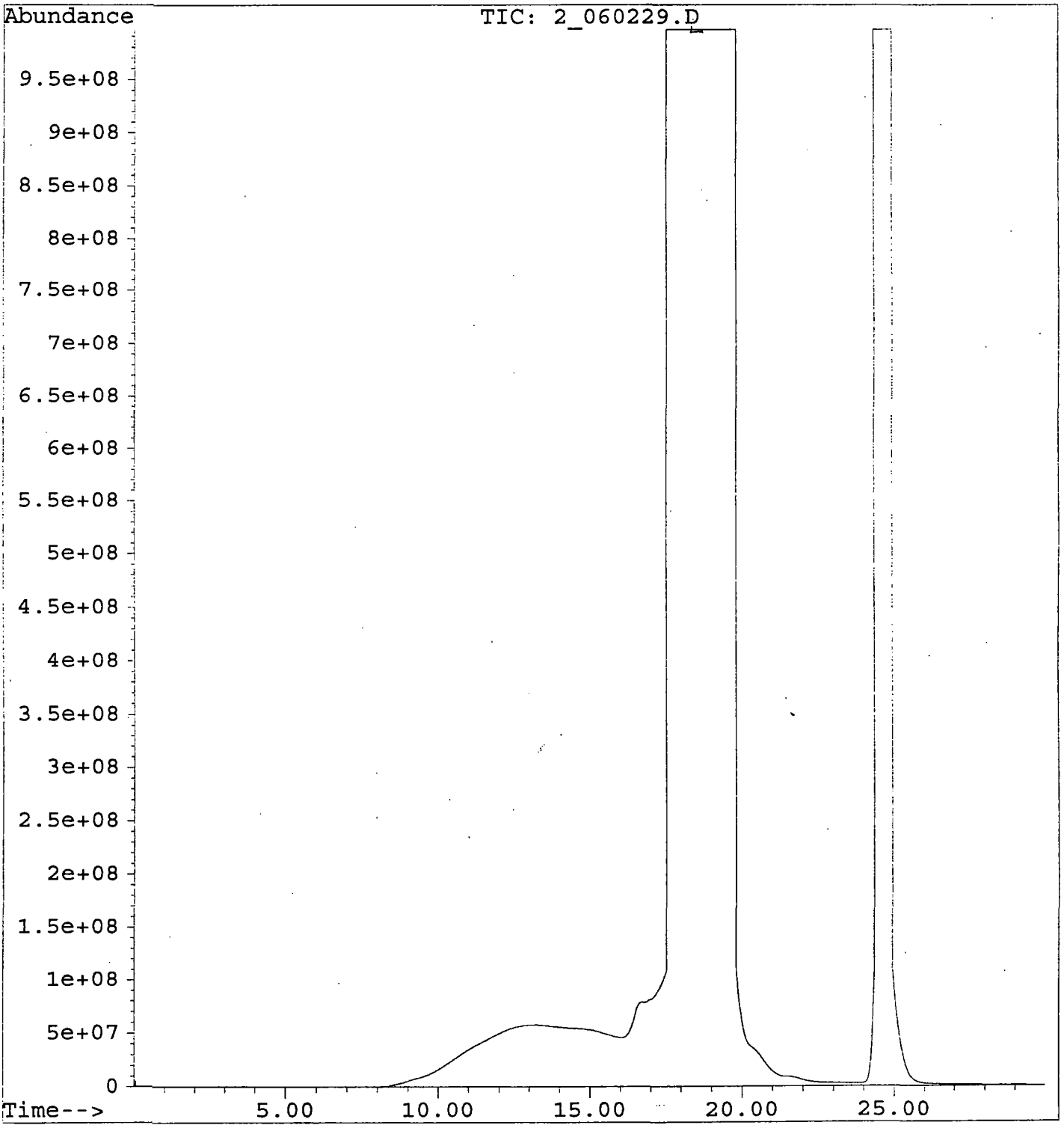
File : C:\HPCHEM\6\DATA\060201\2_060227.D
Operator : CD COL# 364134
Acquired : 03 Jun 01 05:24 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46663.07-E3OC2-EPA
Misc Info : COL# 364134
Vial Number: 27



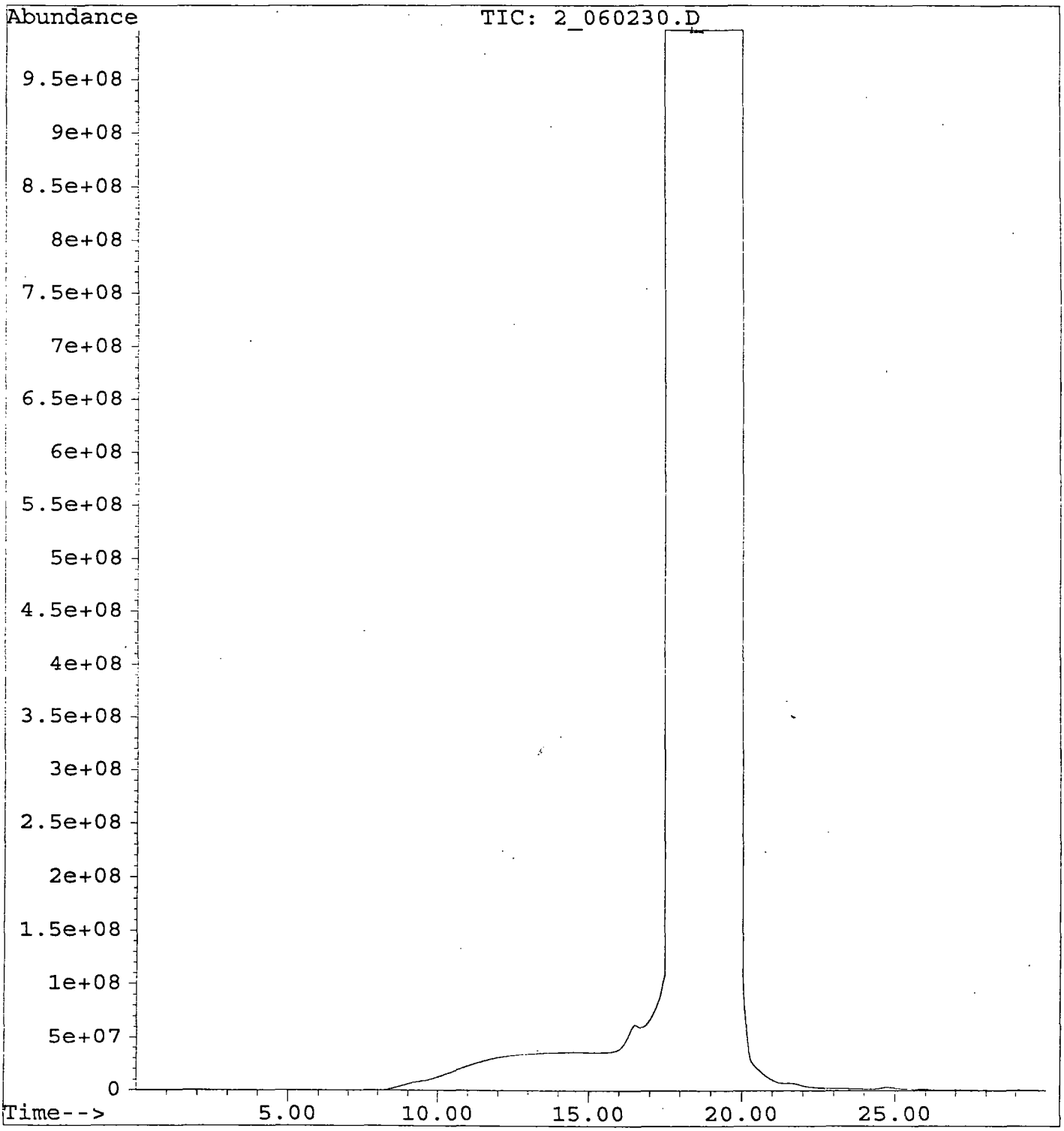
File : C:\HPCHEM\6\DATA\060201\2_060228.D
Operator : CD COL# 364134
Acquired : 03 Jun 01 05:55 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46663.10-E3OC5-EPA
Misc Info : COL# 364134
Vial Number: 28



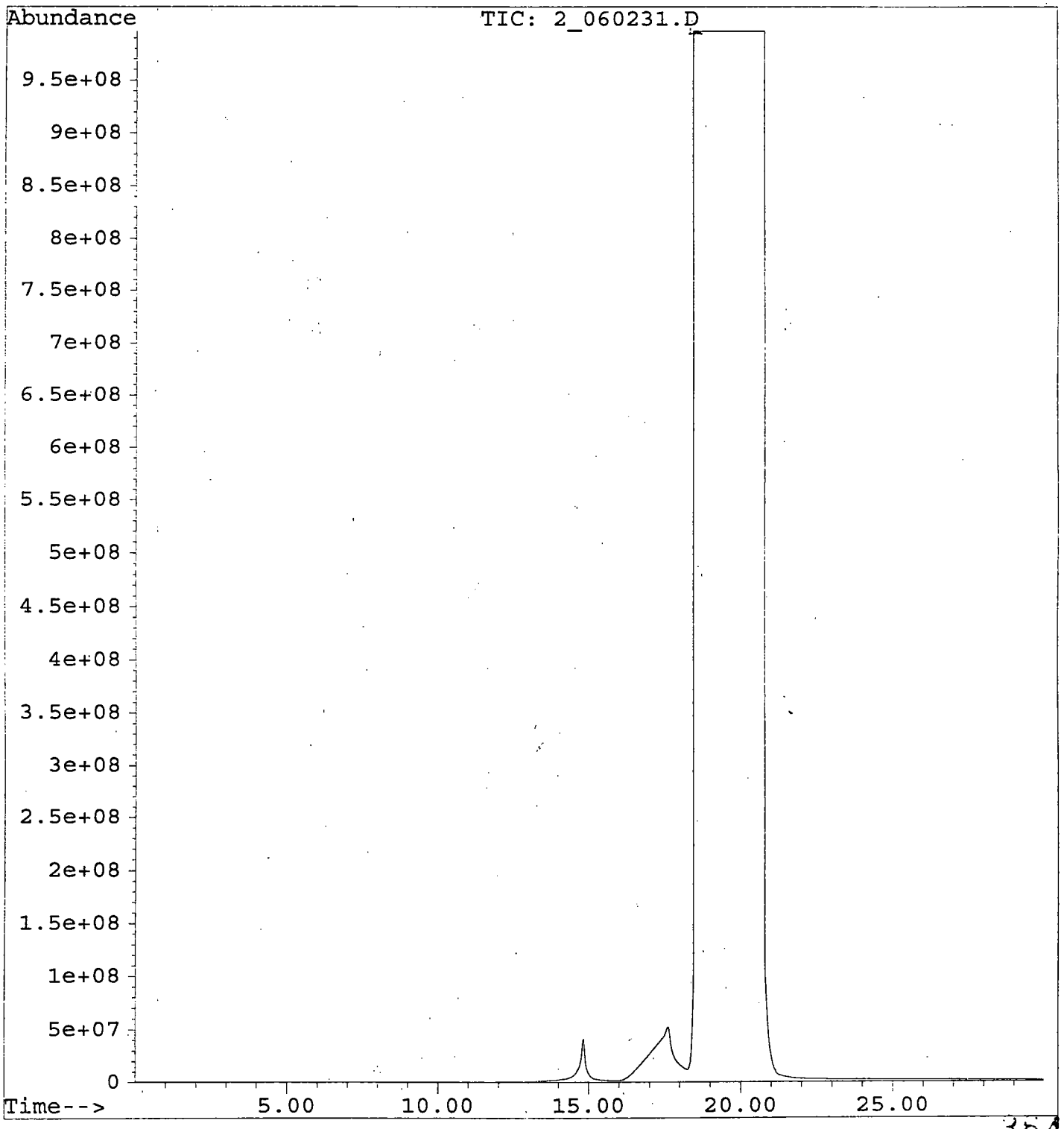
File : C:\HPCHEM\6\DATA\060201\2_060229.D
Operator : CD COL# 364134
Acquired : 03 Jun 01 06:26 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46663.11-E3OC6-EPA
Misc Info : COL# 364134
Vial Number: 29



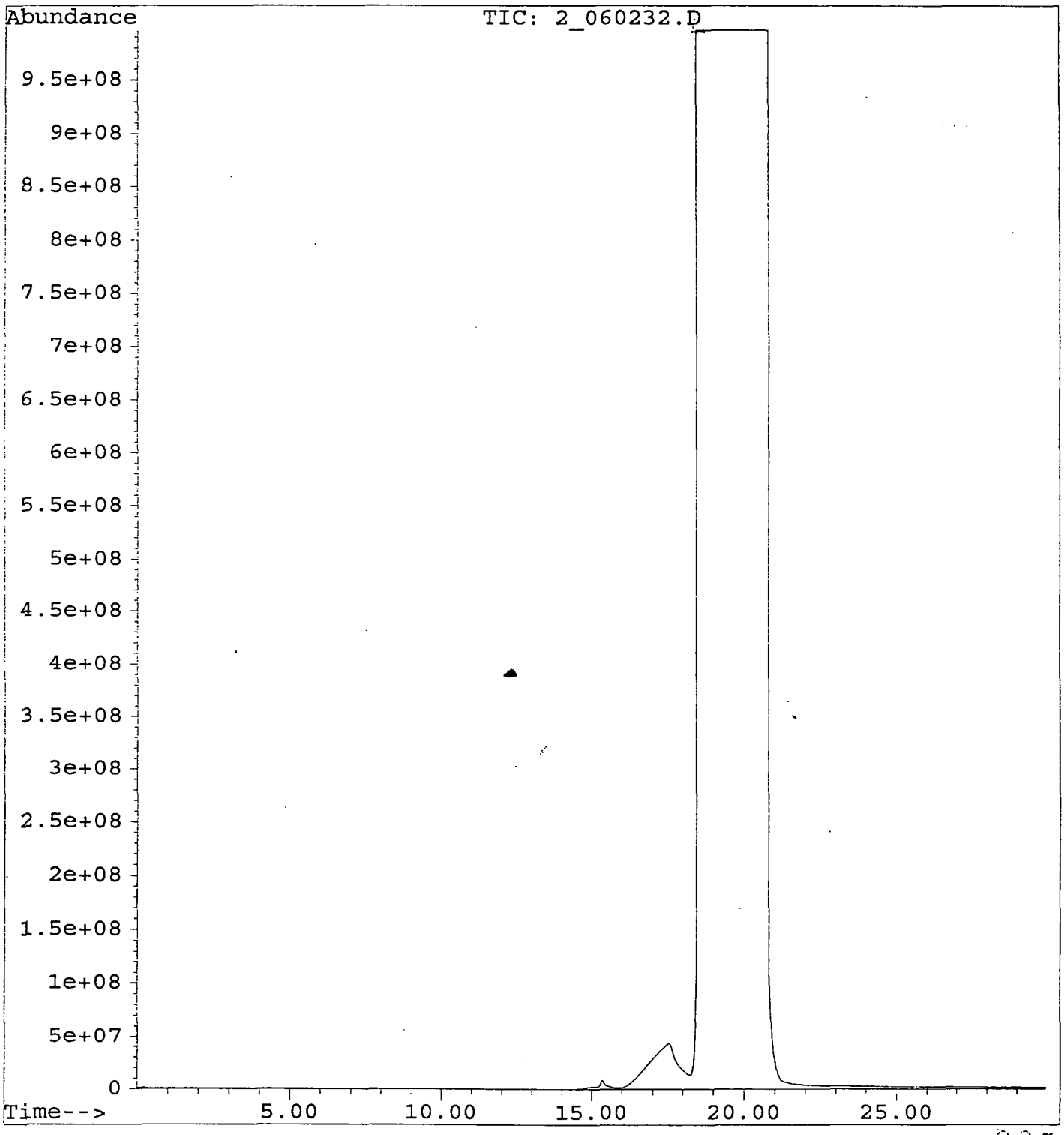
File : C:\HPCHEM\6\DATA\060201\2_060230.D
Operator : CD COL# 364134
Acquired : 03 Jun 01 06:57 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46663.14-E3OD4-EPA
Misc Info : COL# 364134
Vial Number: 30



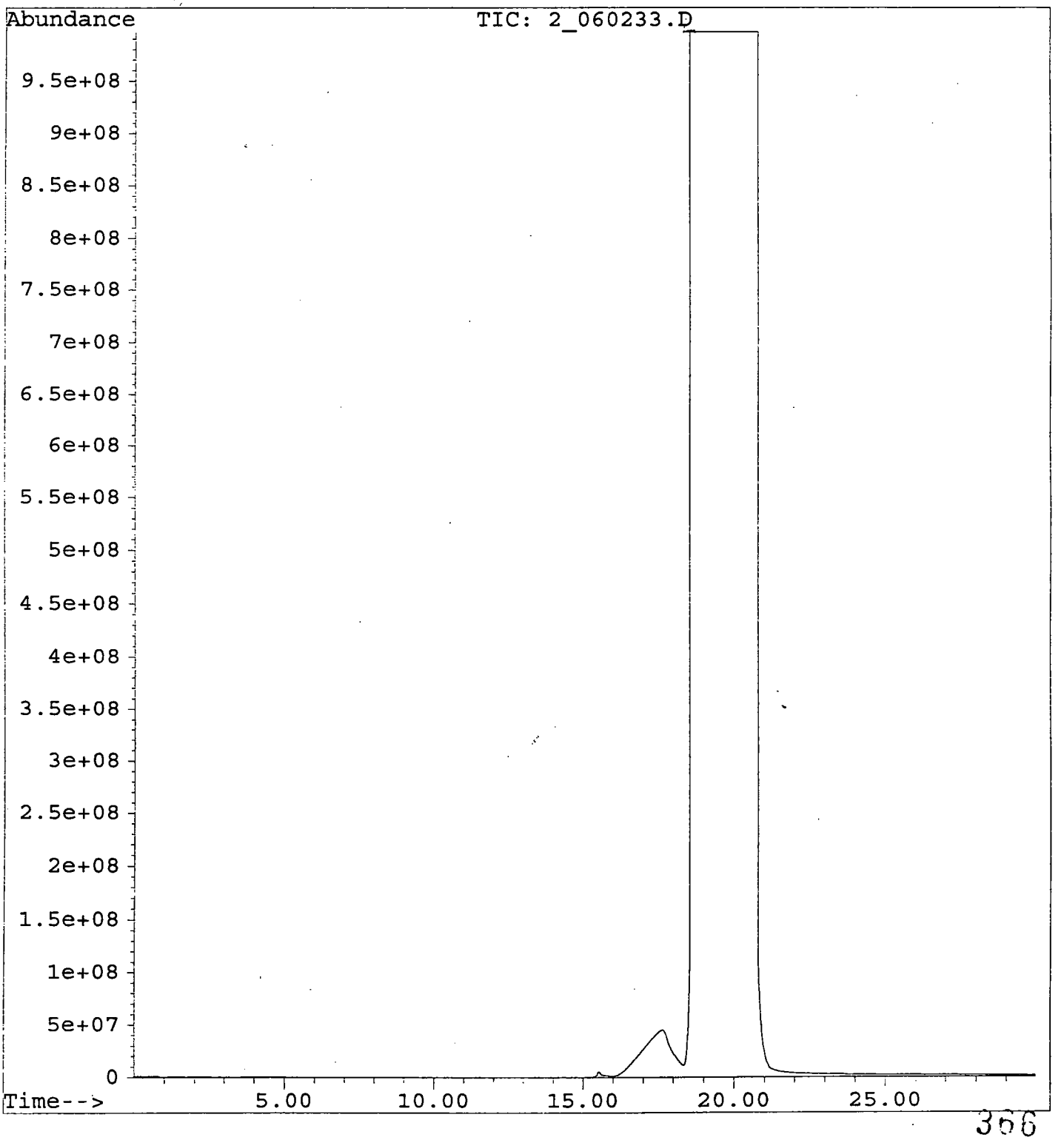
File : C:\HPCHEM\6\DATA\060201\2_060231.D
Operator : CD COL# 364134
Acquired : 03 Jun 01 07:28 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 31



File : C:\HPCHEM\6\DATA\060201\2_060232.D
Operator : CD COL# 364134
Acquired : 03 Jun 01 07:59 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 32

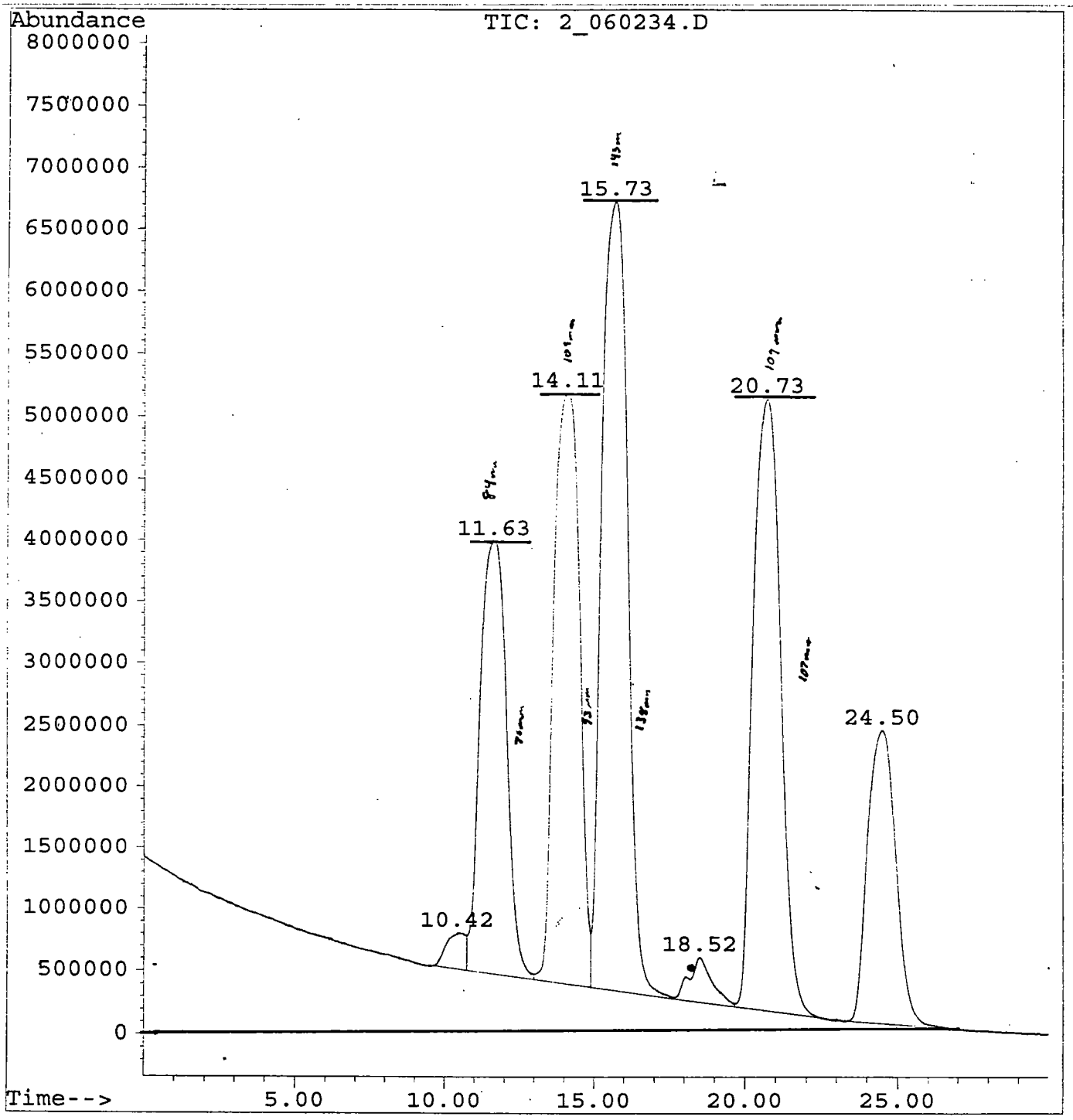


File : C:\HPCHEM\6\DATA\060201\2_060233.D
Operator : CD COL# 364134
Acquired : 03 Jun 01 08:31 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 33



Data File : C:\HPCHEM\6\DATA\060201\2_060234.D
Acq On : 03 Jun 01 09:02 AM
Sample : CAL.STD (FINAL)
Misc : COL# 364134

Vial: 34
Operator: CD COL#
Inst : GPC2
Multiplr: 1.00



(5) 11.63 = Corn Oil = 91%
2 = 85%
3 = 97%
4 = 98%

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Chromatographic Resolution Report

Data File : C:\HPCHEM\6\DATA\060201\2_060234.D Vial: 34
Acq On : 03 Jun 01 09:02 Operator: CD COL# 36
Sample : CAL.STD (FINAL) Inst : GPC2
Misc : COL# 364134 Multiplr: 1.00

Method : C:\HPCHEM\6\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
~~10.416~~	~~11.632~~	~~9.08~~
11.632	14.106	~~100.00~~ = 91%
14.106	15.726	~~91.56~~ = 85%
~~15.726~~	~~18.517~~	~~92.26~~
18.517	20.726	~~100.00~~ : 97%
20.726	24.504	~~99.40~~ = 98%

d 6/9

2_060234.D GPC.M Wed Jun 06 13:53:19 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060655.D\ECD1A.CH Vial: 49
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060655.D\ECD2B.CH
Acq On : 07 Jun 2001 16:35 Operator: DDC
Sample : SB060201A *SB060201A * Inst : HP_03
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 13:33 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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/L	ug/L

System Monitoring Compounds:

Target Compounds:

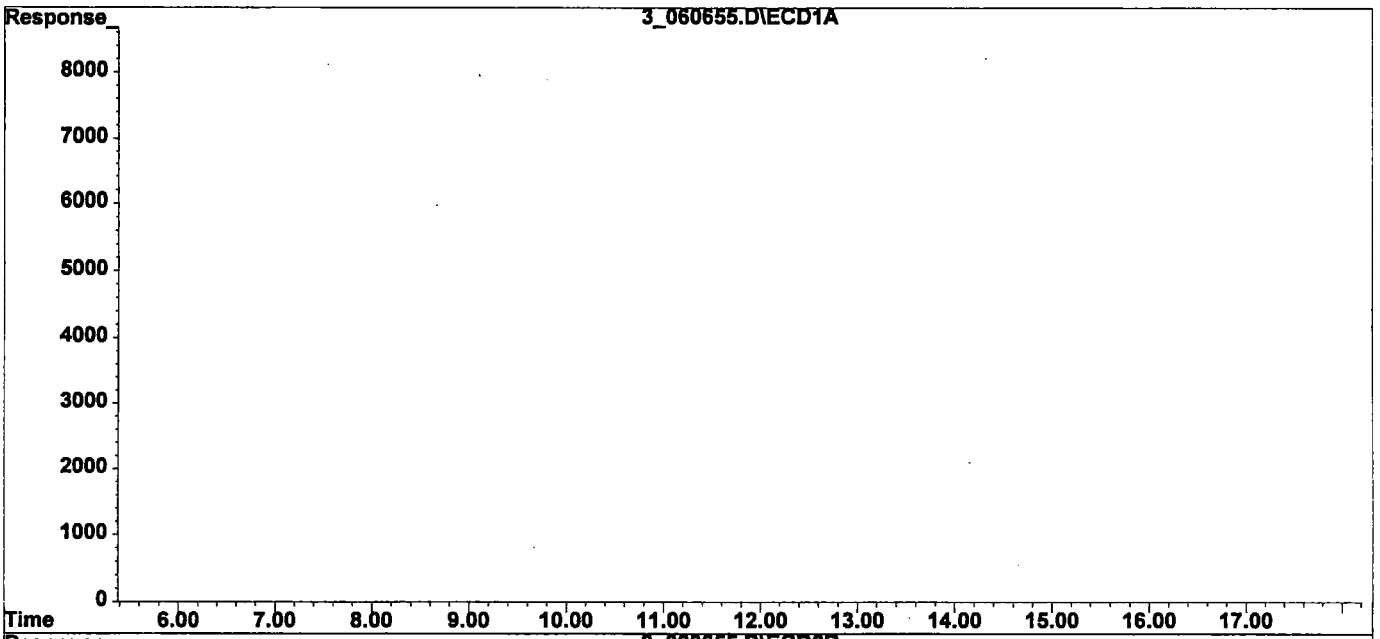
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

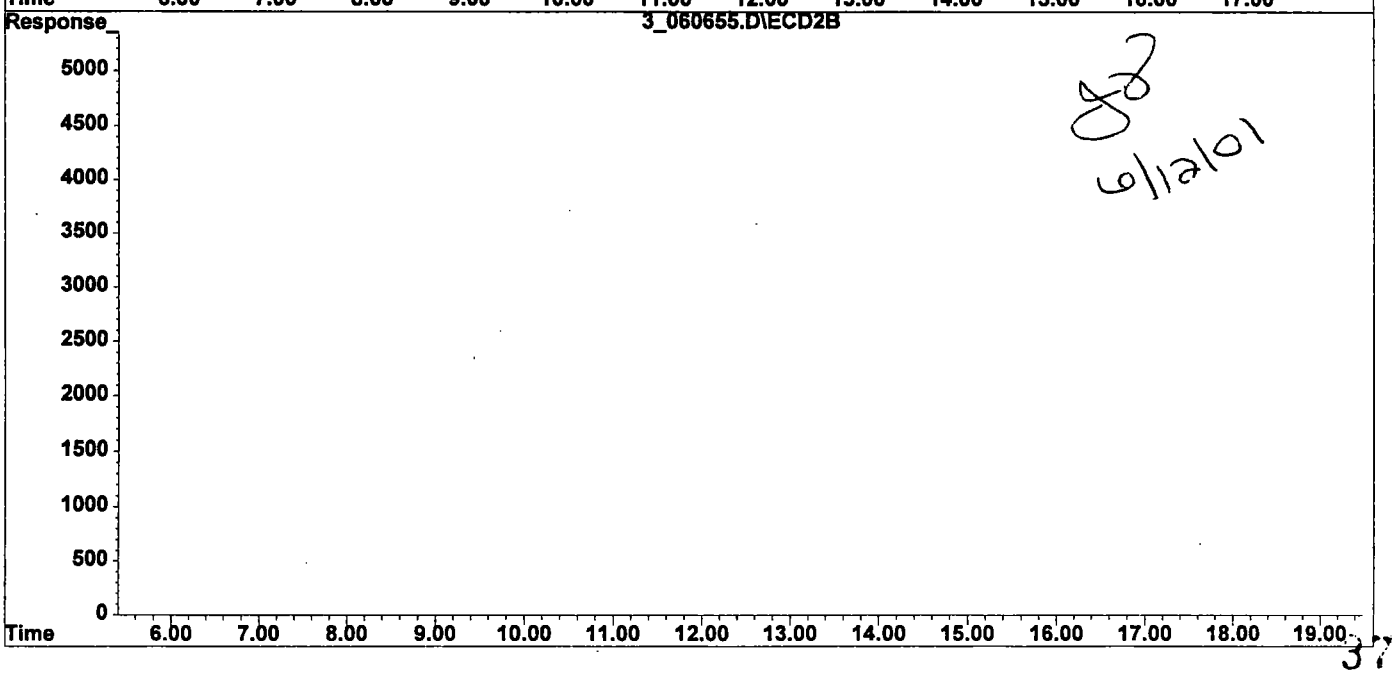
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060655.D\ECD1A.CH Vial: 49
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060655.D\ECD2B.CH
Acq On : 07 Jun 2001 16:35 Operator: DDC
Sample : SB060201A *SB060201A * Inst : HP_03
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 13:33 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





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6/12/01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060656.D\ECD1A.CH Vial: 50
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060656.D\ECD2B.CH
Acq On : 07 Jun 2001 16:59 Operator: DDC
Sample : SB060201B *SB060201B * Inst : HP_03
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 13:33 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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/L	ug/L

System Monitoring Compounds:

Target Compounds:

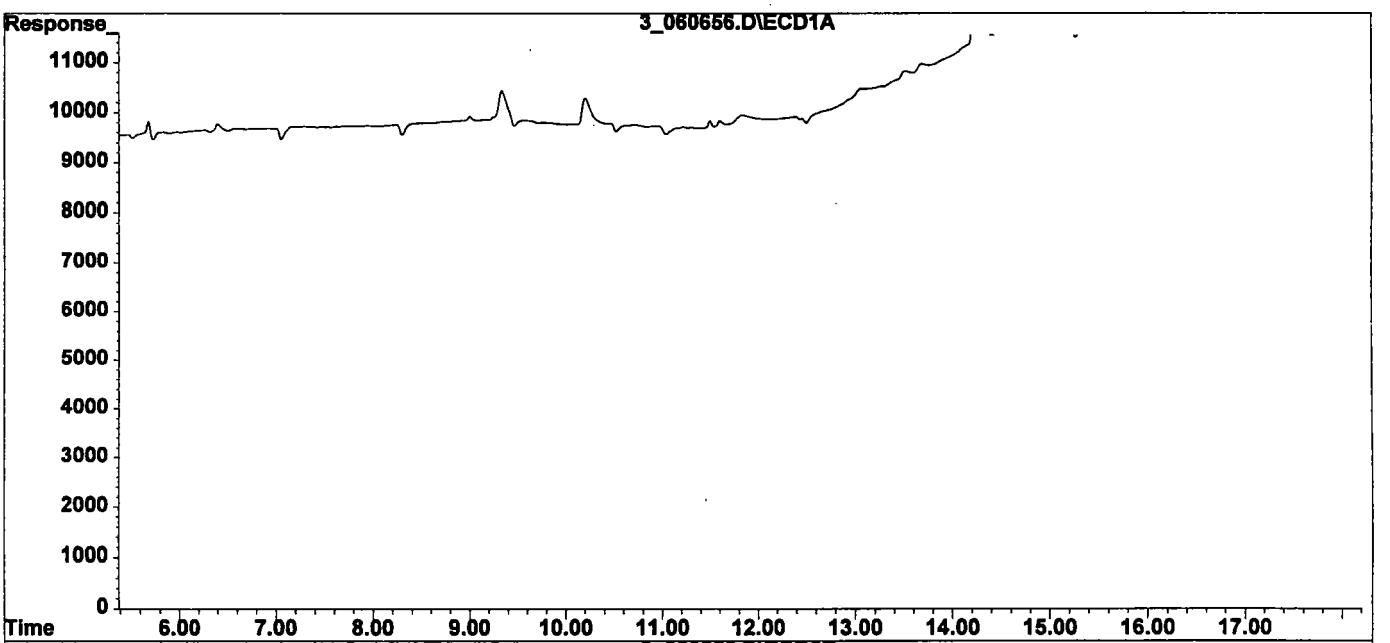
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

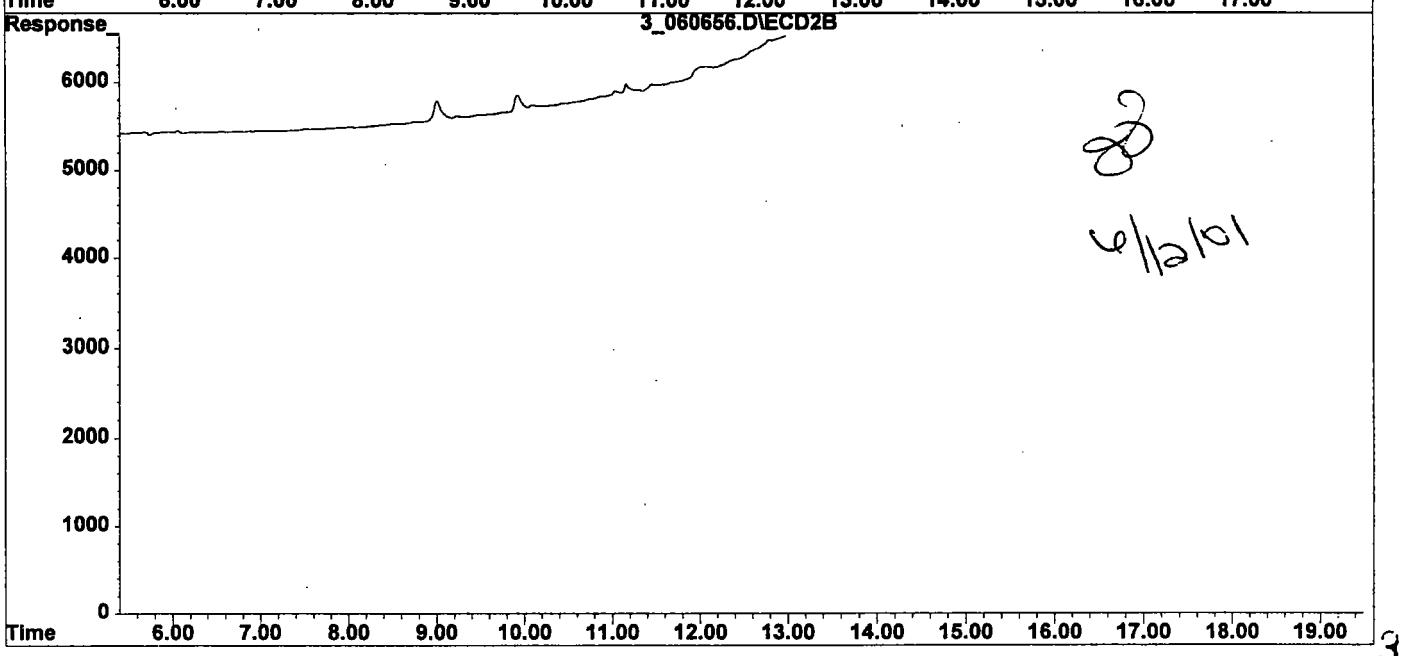
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060656.D\ECD1A.CH Vial: 50
Signal #2 : F:\HPCHEM\HP\3\DATA\06_06_01\3_060656.D\ECD2B.CH
Acq On : 07 Jun 2001 16:59 Operator: DDC
Sample : SB060201B *SB060201B * Inst : HP_03
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 13:33 2001 Quant Results File: XPCBF02.RES

Method : F:\HPCHEM\HP\3\DATA\06_06_01\XPCBF02.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 10:34:21 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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

Data File : F:\HPCHEM\HP\3\DATA\06_09_01\3_060951.D\ECD1A.CH Vial: 51
Acq On : 10 Jun 2001 9:04 Operator: DDC
Sample : 46663.21DL *E30E1DL * Inst : HP_03
Misc : *EPA*30.4G/5.0ML*59 Dilution: 50.00
IntFile : events.e

Data File : F:\HPCHEM\HP\3\DATA\06_09_01\3_060951.D\ECD2B.CH Vial: 51
Acq On : 10 Jun 2001 9:04 Operator: DDC
Sample : 46663.21DL Inst : HP_03
Misc : Dilution: 50.00
IntFile : events2.e
Quant Time: Jun 11 10:57 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
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	6.45	6.48	15430	3800	24.1	15.5	#
	Spiked Amount 16.046			Recovery	=	150.19%	96.60%	DDC
22	S DCB	17.12	18.41	28965	7643	49.9	25.9m	#6-10-01
	Spiked Amount 16.046			Recovery	=	310.98%	161.41%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.75	0.00	13007	0	1065.3	N.D.	#
8)	L4 Aroclor-1242 {2}	9.02f	9.15	16257	4533	3703.9	1068.8	#
9)	L4 Aroclor-1242 {3}	9.57	9.70	56269	18551	3652.1	4729.0	#
11)	L4 Aroclor-1242 {5}	10.72f	11.05	34727	130154	4878.7	18335.7	#
	Sum Aroclor-1242			120260	153238	13300.0	24133.6	
	Average Aroclor-1242					3325.011	8044.538	
13)	L6 Aroclor-1254 {2}	11.60	11.41	76973	84621	7147.0	10020.9	#
14)	L6 Aroclor-1254 {3}	12.35	12.00	131835	48346	6027.3	6196.5	
15)	L6 Aroclor-1254 {4}	12.74	12.19	53317	160781	5843.7	7971.6	#
16)	L6 Aroclor-1254 {5}	13.10	12.62	216906	99421	5802.6	7889.7	#
	Sum Aroclor-1254			479031	393169	24820.5	32078.6	
	Average Aroclor-1254					6205.126	8019.662	
17)	L7 Aroclor-1260	12.15	0.00	123132	0	3851.8	N.D.	d #
18)	L7 Aroclor-1260 {2}	12.53	12.62	126040	99421	4019.8	5347.8	#
19)	L7 Aroclor-1260 {3}	13.10f	13.37f	216906	122598	4310.5	4490.5	
20)	L7 Aroclor-1260 {4}	13.68	14.05	52567	15902	3077.4	1350.9	#
21)	L7 Aroclor-1260 {5}	14.14	14.28	109186	49013	2718.8	1754.9	#
	Sum Aroclor-1260			627831	286934	721205.6	519258.2	
	Average Aroclor-1260					3595.643	3236.017	

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

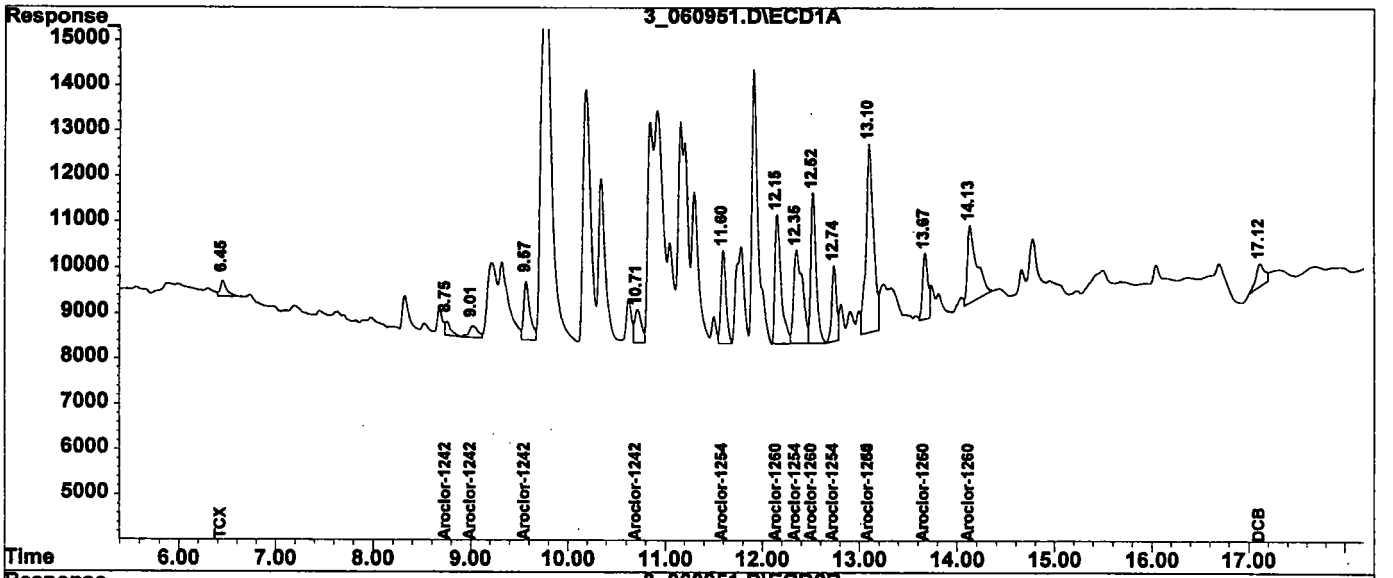
Chromatographic Report

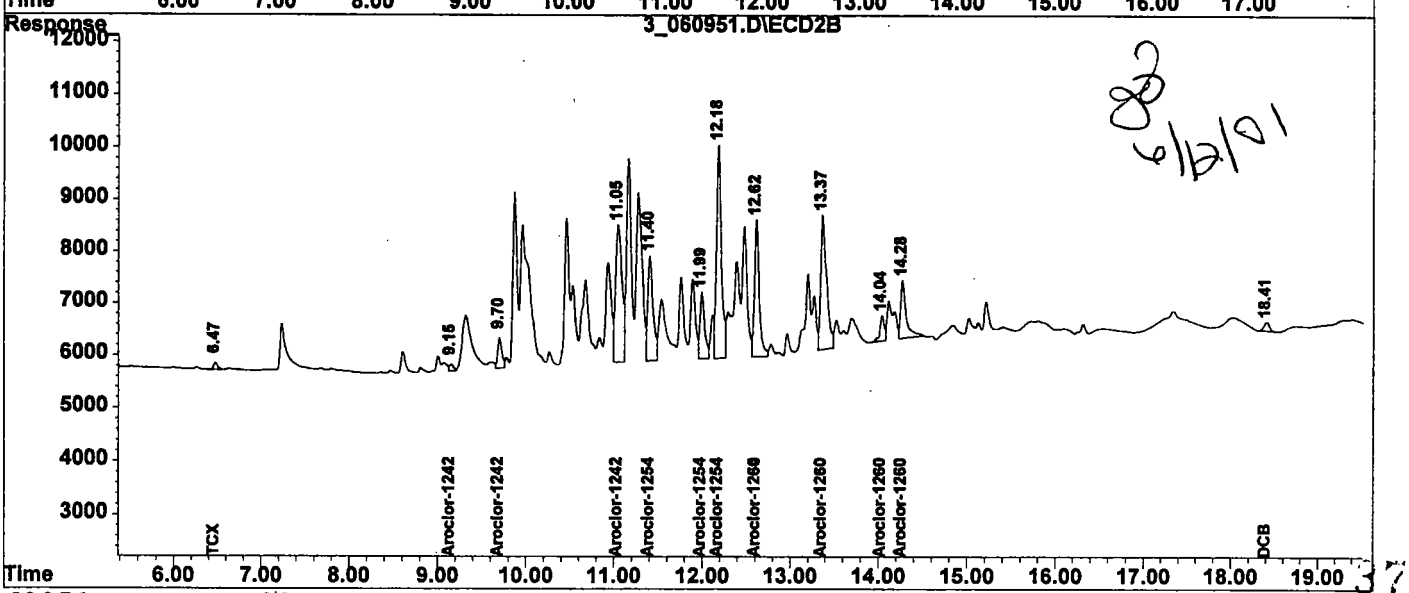
Data File : F:\HPCHEM\HP\3\DATA\06_09_01\3_060951.D\ECD1A.CH Vial: 51
Acq On : 10 Jun 2001 9:04 Operator: DDC
Sample : 46663.21DL *E30E1DL * Inst : HP_03
Misc : *EPA*30.4G/5.0ML*59 Dilution: 50.00
IntFile : events.e

Data File : F:\HPCHEM\HP\3\DATA\06_09_01\3_060951.D\ECD2B.CH Vial: 51
Acq On : 10 Jun 2001 9:04 Operator: DDC
Sample : 46663.21DL Inst : HP_03
Misc : Dilution: 50.00
IntFile : events2.e
Quant Time: Jun 11 10:57 2001 Quant Results File: XPCBF09.RES

Method : F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_09_01\
Last Update : Sun Jun 10 08:46:47 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_03A Signal #2 Inst : HP_03B





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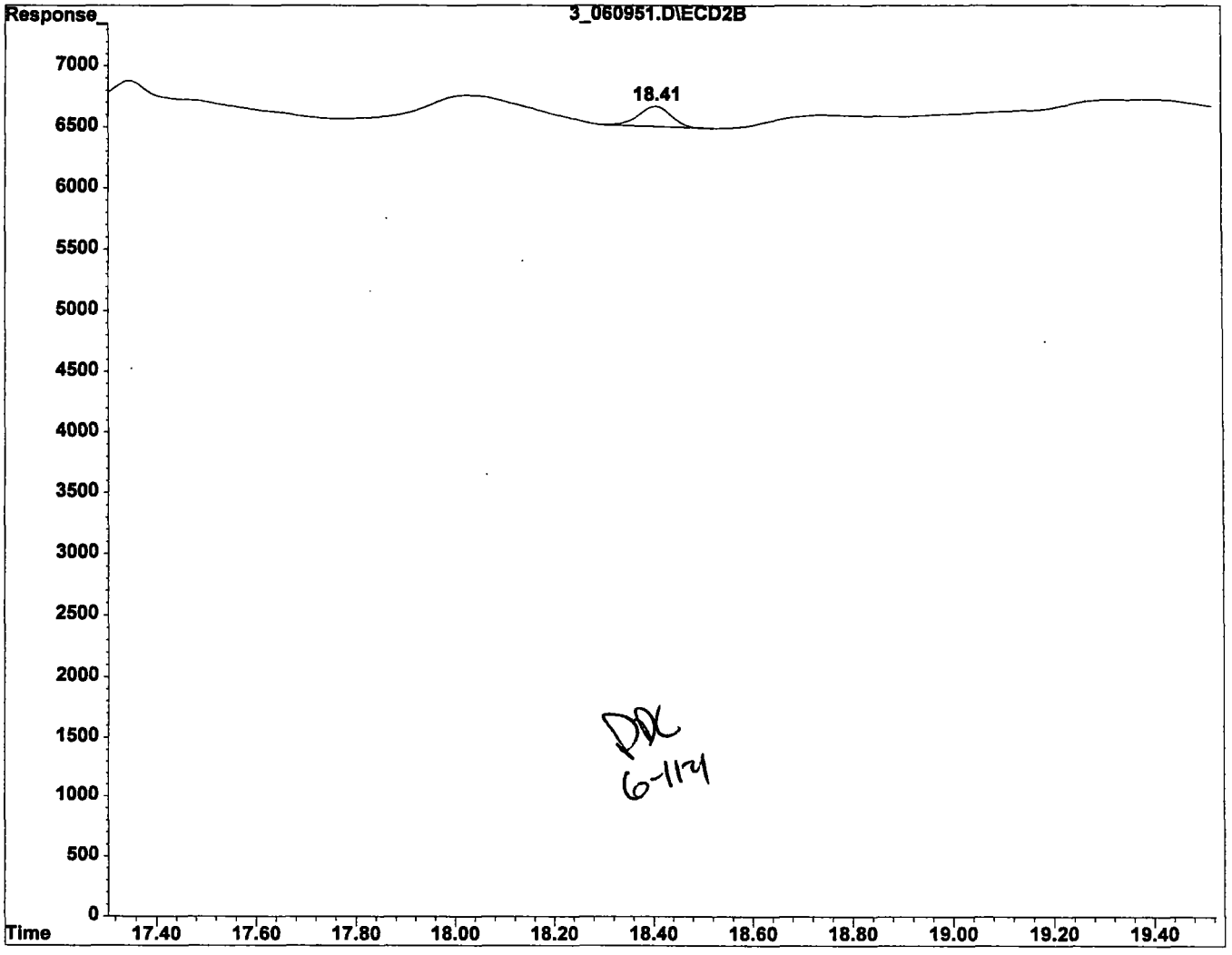
MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\3\DATA\06_09_01\3_060951.D
Date Acquired: 10 Jun 2001 9:04
Inst: HP_03 Operator ID: DDC
Name: 46663.21DL
Misc:
Method: F:\HPCHEM\HP\3\DATA\06_09_01\XPCBF09.M
Title: PCB/TOXAPHENE
Quant Time: Jun 11 10:57 2001 Quant Results File: XPCBF09.RES



DCB #2 18.41min area: 7643 m

Integration Time Range: 18.31 - 18.52

F:\HPCHEM\HP\3\DATA\06_09_01\3_060951.D
Report generated: Mon Jun 11 10:57:48 2001

GC Laboratory Run Log - PESTICIDE/PCB

SWOR/AATS SWLO-OP-301 OP-301-RUNLOG-12 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_03
SDG NO. : SWLO METHOD FILE(S): XPCBF02 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/02/01 11:53	HEX	HEX	3_060201	Sol
06/02/01 12:17	HEX	HEX	3_060202	
06/02/01 12:42	HEX	HEX	3_060203	
06/02/01 13:07	HEX	HEX	3_060204	
06/02/01 13:31	HEX	HEX	3_060205	Sol
06/02/01 13:56	RESC3B	5-441-6	3_060206	OK
06/02/01 14:21	AR1221L3B	5-420-6	3_060207	
06/02/01 14:46	AR1232L3B	5-422-6	3_060208	
06/02/01 15:10	AR1242L1B	5-11-7	3_060209	
06/02/01 15:35	AR1242L2B	5-10-7	3_060210	
06/02/01 16:00	AR1242L3B	5-9-7	3_060211	
06/02/01 16:24	AR1242L4B	5-8-7	3_060212	
06/02/01 16:49	AR1242L5B	5-7-7	3_060213	
06/02/01 17:14	AR1248L3B	5-424-6	3_060214	
06/02/01 17:38	AR1254L1B	5-6-7	3_060215	
06/02/01 18:03	AR1254L2B	5-5-7	3_060216	
06/02/01 18:28	AR1254L3B	5-4-7	3_060217	
06/02/01 18:53	AR1254L4B	5-3-7	3_060218	
06/02/01 19:17	AR1254L5B	5-2-7	3_060219	
06/02/01 19:42	AR1660L1B	5-447-6	3_060220	
06/02/01 20:07	AR1660L2B	5-446-6	3_060221	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

Verification Signature/Date 6/5/01

Analyst Signature/Date 6-5-01

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-12 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_03
SDG NO. : SWLO METHOD FILE(S): XPCBF02 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/02/01 20:31	AR1660L3R	5-445-6	3_060222	OK
06/02/01 20:56	AR1660L4B	5-444-6	3_060223	
06/02/01 21:21	AR1660L5B	5-443-6	3_060224	
06/02/01 21:45	PIBLKK	5-414-6	3_060225	OK
06/02/01 22:10	AR1660L3ICVB	5-442-6	3_060226	OK
06/02/01 22:35	AR1221L3ICVB	5-436-6	3_060227	
06/02/01 22:59	AR1232L3ICVB	5-437-6	3_060228	
06/02/01 23:24	AR1242L3ICVB	5-438-6	3_060229	
06/02/01 23:49	AR1248L3ICVB	5-439-6	3_060230	
06/03/01 00:13	AR1254L3ICVB	5-440-6	3_060231	OK
06/03/01 00:38	E0064	46612.07	3_060232	
06/03/01 1:03	E0064MS	46612.08MS	3_060233	
06/03/01 1:27	E0064MSD	46612.09MSD	3_060234	
06/03/01 1:52	E3020	46612.13	3_060235	
06/03/01 2:17	E3021	46612.14	3_060236	
06/03/01 2:41	E3022	46612.15	3_060237	OK
06/03/01 3:06	HEX	HEX	3_060238	Sd
06/03/01 3:31	HEX	HEX	3_060239	Sd
06/03/01 3:55	HEX	HEX	3_060240	Sd
06/03/01 4:20	PIBLKL	5-414-6	3_060241	OK
06/03/01 4:45	AR1660L3S	5-445-6	3_060242	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

Bryan Landfay 6/5/01
Verification Signature/Date

6-5-01
Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-12 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_03
SDG NO. : SWLO METHOD FILE(S): XPCBF02 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/07/01 12:02	E30B2	46649.38	3_060644	OK
06/07/01 12:27	E30B3	46649.39	3_060645	
06/07/01 12:52	E30B4	46649.40	3_060646	
06/07/01 13:17	E30B5	46649.41	3_060647	
06/07/01 13:42	E30B6	46649.42	3_060648	OK
06/07/01 14:06	HEX	HEX	3_060649	Sil
06/07/01 14:31	HEX	HEX	3_060650	Sil
06/07/01 14:56	HEX	HEX	3_060651	Sil
06/07/01 15:20	PIBLKAL	5-414-6	3_060652	OK
06/07/01 15:45	AR1660L3BB	5-445-6	3_060653	w Cathy
06/07/01 16:10	AR1660L3BC	5-445-6	3_060654	OK
06/07/01 16:35	SB060201A	SB060201A	3_060655	OK
06/07/01 16:59	SB060201B	SB060201B	3_060656	
06/07/01 17:24	PBLKSE	BL0601SE	3_060657	
06/07/01 17:49	PBLKSE	BB0601SE	3_060658	
06/07/01 18:14	ELCS	LC0601SE	3_060659	
06/07/01 18:38	ELCS	LD0601SE	3_060660	OK
06/07/01 19:03	HEX	HEX	3_060661	Sil
06/07/01 19:28	PIBLKAM	5-414-6	3_060662	w
06/07/01 19:53	AR1660L3BD	5-445-6	3_060663	w
06/07/01 20:17	AR1660L3BE	5-445-6	3_060664	w

Unless noted, Client Ids are the same for the quant. & confirmation columns

6-9-01 Verification Signature/Date

6-9-01 Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOR/AATS SWLO-OP-301 OP-301-RUNLOG-12 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_03
SDG NO. : SWLO METHOD FILE(S): XPCBF02 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/07/01 20:42	E30C0	46663.03	3_060665	
06/07/01 21:07	E30C0MS	46663.04MS	3_060666	
06/07/01 21:32	E30C0MSD	46663.05MSD	3_060667	
06/07/01 21:56	E30C1	46663.06	3_060668	
06/07/01 22:21	46663.07		3_060669	
06/07/01 22:46	~~46663.08~~ E30C3	46663.08	3_060670	OK
06/07/01 23:11	46663.09		3_060671	
06/07/01 23:35	HEX	HEX	3_060672	
06/08/01 00:00	HEX	HEX	3_060673	
06/08/01 00:25	HEX	HEX	3_060674	
06/08/01 00:49	PIBLKAN	5-414-6	3_060675	OK
06/08/01 1:14	AR1660L3BF	5-445-6	3_060676	OK
06/08/01 1:39	AR1660L3BG	5-445-6	3_060677	
06/08/01 2:04	46663.10		3_060678	
06/08/01 2:28	46663.11		3_060679	
06/08/01 2:53	46663.12		3_060680	
06/08/01 3:18	E30D3	46663.13	3_060681	OK
06/08/01 3:42	E30D4	46663.14	3_060682	
06/08/01 4:07	E30D5	46663.15	3_060683	
06/08/01 4:32	E30D6	46663.16	3_060684	
06/08/01 4:57	E30D7	46663.17	3_060685	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

6-9-01 Verification Signature/Date

6-9-01 Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-12 SWL Rev.#: 2.1

'ASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_03
SDG NO. : SWLO METHOD FILE(S): XPCBF02 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/08/01 5:21	HEX	HEX	3_060686	SJ
06/08/01 5:46	HEX	HEX	3_060687	SJ
06/08/01 6:11	HEX	HEX	3_060688	SJ
06/08/01 6:36	PBLKAO	5-414-6	3_060689	OK
06/08/01 7:00	AR1660L3BH	5-445-6	3_060690	OK
06/08/01 7:25	AR1660L3BI	5-445-6	3_060691	~
06/08/01 7:50	E30D8	46663.18	3_060692	OK
06/08/01 8:14	E30D9	46663.19	3_060693	
06/08/01 8:49	E30E0	46663.20	3_060694	
06/08/01 9:13	E30E1	46663.21	~~3_060695~~	OK 6-11a
06/08/01 12:01	E30E2	46663.22	3_060696	OK
06/08/01 12:26	46663.23		3_060697	~
06/08/01 12:50	46663.24		3_060698	~
06/08/01 13:15	HEX	HEX	3_060699	SJ
06/08/01 13:40	HEX	HEX	3_060700	SJ
06/08/01 14:05	HEX	HEX	3_060701	SJ
06/08/01 14:29	PIBLKAP	5-414-6	3_060702	~
06/08/01 14:54	AR1660L3BJ	5-445-6	3_060703	~
06/08/01 15:19	AR1660L3BK	5-445-6	3_060704	~
06/08/01 15:44	BB0531SD		3_060705	OK
06/08/01 16:08	46649.23		3_060706	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

6-9-01 6-9-01

Verification Signature/Date Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-12 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_03
SDG NO. : SWLO METHOD FILE(S): XPCBF02 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/08/01 16:33	HEX	HEX	3_060707	Sl
06/08/01 16:58	HEX	HEX	3_060708	Sl
06/08/01 17:23	HEX	HEX	3_060709	Sl
06/08/01 17:47	PIBLKAP	5-414-6	3_060710	OK
06/08/01 18:12	AR1660L3BL	5-445-6	3_060711	OK
06/08/01 18:37	AR1660L3BM	5-445-6	3_060712	N
06/08/01 19:02	46649.24		3_060713	
06/08/01 19:26	46649.25		3_060714	
06/08/01 19:51	46649.26		3_060715	
06/08/01 20:16	46649.27		3_060716	
06/08/01 20:40	46649.31		3_060717	
06/08/01 21:05	46649.32		3_060718	
06/08/01 21:30	46649.33		3_060719	
06/08/01 21:54	46649.34		3_060720	
06/08/01 22:19	46649.35		3_060721	
06/08/01 22:44	46649.36		3_060722	
06/08/01 23:08	HEX	HEX	3_060723	
06/08/01 23:33	HEX	HEX	3_060724	
06/08/01 23:58	HEX	HEX	3_060725	
06/09/01 00:22	PIBLKAQ	5-414-6	3_060726	N
06/09/01 00:47	AR1660L3BN	5-445-6	3_060727	N

Unless noted, Client Ids are the same for the quant. & confirmation columns

6-9-01
Verification Signature/Date

6-9-01
Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-12 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_03
SDG NO. : SWLO METHOD FILE(S): XPCBF09 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/09/01 12:30	HEX	HEX	3_060901	Sd
06/09/01 12:55	HEX	HEX	3_060902	
06/09/01 13:19	HEX	HEX	3_060903	
06/09/01 13:44	HEX	HEX	3_060904	
06/09/01 14:09	HEX	HEX	3_060905	Sd
06/09/01 14:33	RESC3C	5-441-6	3_060906	OK
06/09/01 14:58	AR1221L33C	5-420-6	3_060907	
06/09/01 15:23	AR1232L33C	5-422-6	3_060908	
06/09/01 15:48	AR1242L13C	5-11-7	3_060909	
06/09/01 16:12	AR1242L23C	5-10-7	3_060910	
06/09/01 16:37	AR1242L33C	5-9-7	3_060911	
06/09/01 17:02	AR1242L43C	5-8-7	3_060912	
06/09/01 17:26	AR1242L53C	5-7-7	3_060913	
06/09/01 17:51	AR1248L33C	5-424-6	3_060914	
06/09/01 18:16	AR1254L13C	5-6-7	3_060915	
06/09/01 18:41	AR1254L23C	5-5-7	3_060916	
06/09/01 19:05	AR1254L33C	5-4-7	3_060917	
06/09/01 19:30	AR1254L43C	5-3-7	3_060918	
06/09/01 19:55	AR1254L53C	5-2-7	3_060919	
06/09/01 20:19	AR1660L13C	5-31-7	3_060920	
06/09/01 20:44	AR1660L23C	5-30-7	3_060921	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

6/11/01 — Verification Signature/Date

6/11/01 — Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-12 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_03
SDG NO. : SWLO METHOD FILE(S): XPCBF09 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/09/01 21:09	AR1660L33V	5-29-7	3_060922	OK
06/09/01 21:34	AR1660L43C	5-28-7	3_060923	
06/09/01 21:58	AR1660L53C	5-27-7	3_060924	
06/09/01 22:23	PIBLK3C	5-414-6	3_060925	
06/09/01 22:48	AR1660L3ICV3C	5-442-6	3_060926	
06/09/01 23:12	AR1221L3ICV3C	5-436-6	3_060927	
06/09/01 23:37	AR1232L3ICV3C	5-437-6	3_060928	
06/10/01 00:01	AR1242L3ICV3C	5-438-6	3_060929	
06/10/01 00:26	AR1248L3ICV3C	5-439-6	3_060930	
06/10/01 00:51	AR1254L3ICV3C	5-440-6	3_060931	OK
06/10/01 1:15	PBLKSE	BB0601SE	3_060932	OK
06/10/01 1:40	E30C0	46663.03	3_060933	
06/10/01 2:05	E30C0MS	46663.04MS	3_060934	
06/10/01 2:29	E30C0MSD	46663.05MSD	3_060935	
06/10/01 2:54	E30C1	46663.06	3_060936	
06/10/01 3:19	E30C2	46663.07	3_060937	
06/10/01 3:43	E30C4	46663.09	3_060938	
06/10/01 4:08	E30C5	46663.10	3_060939	OK
06/10/01 4:33	HEX	HEX	3_060940	SL
06/10/01 4:57	HEX	HEX	3_060941	SL
06/10/01 5:22	HEX	HEX	3_060942	SL

Unless noted, Client Ids are the same for the quant. & confirmation columns

Verification Signature/Date 6/11/01

Analyst Signature/Date 6-11-01

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-301 OP-301-RUNLOG-12 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_03
SDG NO. : SWLO METHOD FILE(S): XPCBF09 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/10/01 5:47	PIBLK3D	5-414-6	3_060943	OK
06/10/01 6:11	AR1660L33D	5-29-7	3_060944	OK
06/10/01 6:36	AR1660L33E	5-29-7	3_060945	w
06/10/01 7:01	E30C6	46663.11	3_060946	OK
06/10/01 7:25	E30C7	46663.12	3_060947	
06/10/01 7:50	E30E3	46663.23	3_060948	
06/10/01 8:15	E30E4	46663.24	3_060949	
06/10/01 8:39	E30D7DL	46663.17DL	3_060950	
06/10/01 9:04	E30E1DL	46663.21DL	3_060951	misc
06/10/01 9:29	E30E1DL	46663.21DL	3_060952	OK
06/10/01 9:53	HEX	HEX	3_060953	Sol
06/10/01 10:18	HEX	HEX	3_060954	Sol
06/10/01 10:43	HEX	HEX	3_060955	Sol
06/10/01 11:08	PIBLK3E	5-414-6	3_060956	OK
06/10/01 11:32	AR1660L33F	5-29-7	3_060957	outlyer
06/10/01 11:57	AR1660L33G	5-29-7	3_060958	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

Verification Signature/Date 6/11/01 Analyst Signature/Date 6/12/01

Page No.: 36

	SV	ST • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

[X] RUSH [ ] REEXTRACT [ ] TCLP [ ] OXIN

SAMPLE EXTRACTION L

6/6

BATCH: 010601SE

EXTRACT DATE 2001-06-01 14:34

002748

Page: 1 of 2

SAMPLE ID (EPISODE #)	CLIENT / CASE	DATE RECEIVED / CLIENT SAMPLE ID	MATRIX/LEVEL	SAMPLE pH	% MOISTURE (%)	DRY WEIGHT (g)	AMOUNT EXTRACTED (g • ml)	EXTRACTED VOLUME (ml)	GPC VOLUME (ml)	GPC ELUTE VOL (ml)	FLORISIL VOL CONC (ml)	FLORISIL FIN VOL CONC (ml)	VOL SV (P) (ml)	FIN PROCESS VOLUME (ml)	SCREEN Y/N (Y/N)	MS SV (P) (µL)	SURR SV (P) (µL)	BASE pH CONFIRMATION	ACID pH CONFIRMATION	
BL0601SE			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000			
BB0601SE			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000			
LC0601SE			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000			
LD0601SE			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000			
46663.03 GC699	EPA 29294	06/01/2001 11:15 E30C0	S/L	7.60	37.61	18.8	30.15	350	10/5	45	2.0		5.0	5.0	N		1000			Lottle A
46663.04MS GC699	EPA 29294	06/01/2001 11:15 E30C0MS	S/L	7.60	37.61	18.9	30.22	350	10/5	45	2.0		5.0	5.0	N	1000	1000			A
46663.05MSD GC699	EPA 29294	06/01/2001 11:15 E30C0MSD	S/L	7.60	37.61	18.9	30.29	350	10/5	45	2.0		5.0	5.0	N	1000	1000			A
46663.06 GC699	EPA 29294	06/01/2001 11:15 E30C1	S/L	7.45	58.03	12.7	30.32	350	10/5	45	2.0		5.0	5.0	N		1000			A
46663.07 GC699	EPA 29294	06/01/2001 11:15 E30C2	S/L	7.71	61.97	11.6	30.44	350	10/5	45	2.0		5.0	5.0	N		1000			A
46663.08 GC699	EPA 29294	06/01/2001 11:15 E30C3	S/L	8.09	11.79	26.5	30.09	350	10/5	45	2.0		5.0	5.0	N		1000			A
46663.09 GC699	EPA 29294	06/01/2001 11:15 E30C4	S/L	7.64	20.58	24.4	30.67	350	10/5	45	2.0		5.0	5.0	N		1000			A
46663.10 GC699	EPA 29294	06/01/2001 11:15 E30C5	S/L	7.57	54.19	14.0	30.58	350	10/5	45	2.0		5.0	5.0	N		1000			A
46663.11 GC699	EPA 29294	06/01/2001 11:15 E30C6	S/L	7.48	53.70	14.2	30.69	350	10/5	45	2.0		5.0	5.0	N		1000			A
46663.12 GC699	EPA 29294	06/01/2001 11:15 E30C7	S/L	7.68	48.99	15.5	30.47	350	10/5	45	2.0		5.0	5.0	N		1000			A
46663.13 GC699	EPA 29294	06/01/2001 11:15 E30D3	S/L	7.23	56.32	13.5	30.83	350	10/5	45	2.0		5.0	5.0	N		1000			A

INITIALS

WEIGHING:	BTB	EXTRACTION:	BTB	FLORISIL:	
CLEANUP:	CD	KD:	MC	[signature]	
BLOWDOWN:	MC	TV:	GS	[signature]	
SURROG. SPIKER:	MC	VERIFIER:	BTB	[signature]	
MATRIX SPIKER:	MC	VERIFIER:	BTB		
SUBMITTED BY:	MC	REVIEWED BY:	[signature]	6/5/2001	

ID NUMBERS

FLORISIL CARTRIDGE #:

GPC COLUMN #: 06-02-01 364134 method # 3640 A

SURROGATES ID CONC #: 5-13-7

MATRIX SPIKE SOLID/CONC #(s): 5-1-7

SOP - METHOD # : SWL-OP- 420 Rev. 1.0

by 35 book 1 weight

COMMENTS

SB # 060201 A

SB # 060201 B

Extracts went through s/gel and acid clean up

[X] RUSH ☐ REEXTRACT ☐ TCLP ['OXIN

SAMPLE EXTRACTION L

	SV	ST • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

BATCH: 010601SE

EXTRACT DATE: 2001-06-01 14:34

002748

Page: 2 of 2

SAMPLE ID (EPISODE #)	CLIENT CASE	DATE RECEIVED CLIENT SAMPLE ID	MATRIX/LEVEL	SAMPLE pH	% MOISTURE %	DRY WEIGHT g	AMOUNT EXTRACTED g • ml	EXTRACTED VOLUME ml	GPC VOLUME ml	GPC ELUTE VOL ml	FLORISIL VOL CONC ml	FLORISIL FIN VOL CONC ml	VOL SV (P) ml	FIN PROCESS VOLUME ml	SCREEN Y/N Y/N	MS SV (P) µL	SURR SV (P) µL	BASE pH CONFIRMATION	ACID pH CONFIRMATION	
46663.14 GC699	EPA 29294	06/01/2001 11:15 E30D4	S/L	7.27	61.19	11.7	30.19	350	10/5	45	2.0		5.0	5.0	N		1000			bottle A
46663.15 GC699	EPA 29294	06/01/2001 11:15 E30D5	S/L	7.35	55.15	13.7	30.56	350	10/5	45	2.0		5.0	5.0	N		1000			A
46663.16 GC699	EPA 29294	06/01/2001 11:15 E30D6	S/L	7.31	61.72	11.6	30.28	350	10/5	45	2.0		5.0	5.0	N		1000			A
46663.17 GC699	EPA 29294	06/01/2001 11:15 E30D7	S/L	7.42	54.36	13.7	30.06	350	10/5	45	2.0		5.0	5.0	N		1000			A
46663.18 GC699	EPA 29294	06/01/2001 11:15 E30D8	S/L	7.36	49.15	15.7	30.86	350	10/5	45	2.0		5.0	5.0	N		1000			A
46663.19 GC699	EPA 29294	06/01/2001 11:15 E30D9	S/L	7.25	32.62	20.6	30.57	350	10/5	45	2.0		5.0	5.0	N		1000			A
46663.20 GC699	EPA 29294	06/01/2001 11:15 E30E0	S/L	7.60	28.10	21.6	30.00	350	10/5	45	2.0		5.0	5.0	N		1000			A
46663.21 GC699	EPA 29294	06/01/2001 11:15 E30E1	S/L	6.86	58.89	12.5	30.42	350	10/5	45	2.0		5.0	5.0	N		1000			A
46663.22 GC699	EPA 29294	06/01/2001 11:15 E30E2	S/L	30.37	17.03	25.2	30.37	350	10/5	45	2.0		5.0	5.0	N		1000			A
46663.23 GC699	EPA 29294	06/01/2001 11:15 E30E3	S/L	7.66	55.63	13.7	30.85	350	10/5	45	2.0		5.0	5.0	N		1000			A
46663.24 GC699	EPA 29294	06/01/2001 11:15 E30E4	S/L	6.98	59.32	12.3	30.24	350	10/5	45	2.0		5.0	5.0	N		1000			A

INITIALS

WEIGHING:	BTB	EXTRACTION:	BTB	FLORISIL:	
CLEANUP:	CD	KD:	MC		
BLOWDOWN:	MC	TV:	GS		
SURROG. SPIKER:	MC	VERIFIER:	BTB		
MATRIX SPIKER:	MC	VERIFIER:	BTB		
SUBMITTED BY:	MC	REVIEWED BY:		6/5/2001	

ID NUMBERS

FLORISIL CARTRIDGE #:

GPC COLUMN #: 06-22-01 364134 method #. 3640 A

SURROGATES ID CONC #: 5-13-7

MATRIX SPIKE SOLID/CONC #(s): 5-1-7

SOP - METHOD # : SWL-OP- 430 Rev. 1.0

by 35 bottle 1 reagent

COMMENTS

SB # 060201A

SB # 060201B

Extracts went through s/gel and acid clean up

EXTRACT RECEIPT LOG

SWL-OP-301 REV. NO.: _____
SWL OP-301-EXTRCPT-6
SWOK/AATS
OP301a3.doc

Date	Time	Sample Episode Number(s)	Client	Extr. Chemist Initials	Re-extract? (Y/N)	Comments	No. of Samp.
06/02	5:25p	46659.01	TOLTEST	SA	N	GC 801	1
06/02	5:25p	46655.01, 02MB, 03MSD	BECTACOB	SA	N	GC 601	3
06/02	5:25p	46659.01	TOLTEST	SA	N	GC 601	1
6/03	10.00a	46659.01 MS MSD	TOLTEST	GK	N	GC 200/201	1
↓	↓	46666.01-18 MS MSD	↓	GK	N	GC 200	18
06/03	7:45p	46597.05, 06MS, 07MSD, 08-10, 23-25	EPA	SA	Y	GC 699	X
06/03	7:45p	46649.01-22 MS, MSD	EPA	SA	N	GC699	22
06/03	7:45p	46649.23-42 MS, MSD	EPA	SA	N	GC699	20
06.05	8:00	461303-24 04 MS 05 MSD	EPA	MC	N	GC699	22

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Southwest Laboratory of Oklahoma
1700 W. Albany Suite C
Broken Arrow, OK 74012-1421

INTERNAL CHAIN OF CUSTODY

Date	06/01/2001
Episode	**46663**
Client	**EPA**
Project	OLM04.2
Received	06/01/01

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			
		22	23	24	25	26	27	28			
		29	30	31	32	33	34	35			
		36	37	38	39	40	41		6/1 4:45	[illegible]	6/1 5:30
IN660	A	1	2	3	4	5	6	7			
		8	9	10	11	12	13	14			
		15	16	17	18	19	20	21			
		22	23	24	25	26	27	28			
		29	30	31	32	33	34	35			
		36	37	38	39	40	41		6/2 8:30	[illegible]	6/2 10:30

EXTRACT RECEIPT LOG

SWL-OP-301 REV. NO.: _____
SWL OP-301-EXTRCPT-6
SWOK/AATS
OP301a3.doc

Date	Time	Sample Episode Number(s)	Client	Extr. Chemist Initials	Re-extract? (Y/N)	Comments	No. of Samp.
06/02	5:25p	46659.01	TOLTEST	SA	N	GC 801	1
06/02	5:25p	46655.01, 02MS, 03MSD	BECTACOB	SA	N	GC 601	3
06/02	5:25p	46659.01	TOLTEST	SA	N	GC 601	1
6/03	10:00a	46659.01 MS MSD	TOLTEST	GS	N	GC 200/201	1
↓	↓	46666.01-18 MS MSD	↓	GS	N	GC 200	18
06/03	7:45p	46597.05, 06MS, 07MSD, 08-10, 23, 25	EPA	SA	Y	GC 699	X
06/03	7:45p	46649.01-22 MS, MSD	EPA	SA	N	GC699	22
06/03	7:45p	46649.23-42 MS, MSD	EPA	SA	N	GC699	20
06.05	8:00	466303-24 04 MS 05 MSD	EPA	MC	N	GC699	22
06.05	9:30	46663.25-41 ; 07 MS 08 MSD	EPA	MC	N	GC699	17
06.05	10:30	46676.23-35 MS ; 37 MSD	EPA	MC	N	GC699	15
06.05	10:30	46663.01 ; 02	EPA	MC	N	GC699	2
06/05	3:55	46546.01-13, 15, 16, 16MS, 16MSD	Complinc	SA	N	GC 899	15
06/05	4:00p	46659.01, MS MSD	TOLTEST	GS	N	GC599	1
6/5	4:20p	46513.03, 6, MS/MSD	Incel	[illegible]	N	GC699 LAD	2
6/5	4/20 pm	46505.03	Incel	[illegible]	N	GC699 LAD	1
6/5	4:20p	46506.07, 09, 09, 12, 15, 18, 27	Incel	[illegible]	N	GC699 LAD	7
6/5	4.20pm	46485.07, 08, 09	"	"	"	"	3
6/5	4:20pm	46514.07, 08, 09	Incel	[illegible]	N	GC699	3
6/5	4:20pm	46505.06, MS/MSD, 09	Incel	[illegible]	N	GC699	2
6/5	4:20pm	46506.21, 24	Incel	[illegible]	N	GC699	2
06/05	6:35	46656.02	MONTE-UT	SA	N	GC218	1
06/05	6:35	46677.01, 01MS, 01MSD	MONTE-UT	SA	N	GC218	1
06/06	9:00	46676.01-22 08 MS 09 MSD	EPA	MC	N	GC699	22
6-06	12:00p	46686-01, 04, 05MS, 06MSD, 13, 16	INEEL	GS	N	GC 320	6
06/06	4:20p	46629.11, 12, 17, 22	EPA	SA	Y	GC699	4

389

479

1000

FedEx USA Airbill FedEx Tracking Number 821876982126

Form I.D. No. 02

Recipient's Copy

RECIPIENT PEEL HERE

1 From This portion can be removed for Recipient's records.

Date 5/31/01 FedEx Tracking Number 821876982126

Sender's Name Tonya Ballard Phone 847 918-4000

Company ROY F WESTON INC

Address 750 E BUNKER CT STE 500

Dept./Floor/Suite/Room

City VERNON HILLS State IL ZIP 60061

2 Your Internal Billing Reference

3 To Recipient's Name SAMPLE LOG-IN Phone 918 251-0545

Company SAMPLEWEST LABS OF OKLAHOMAM INC.

Address 1700 WEST ALBANY, STE. C

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

City BROKEN ARROW State [illegible] ZIP 74012

8218 7698 21[illegible]

0146095931

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Envelope/Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation:

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [x] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling Include FedEx address in Section 3

- [ ] SATURDAY Delivery* — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [ ] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous Goods cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Obtain Recip. Acct. No.
- [ ] Cash/Check

[redacted]

Total Packages 1 Weight 68 [redacted]

Total Charges

Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Call 1-800-Go-FedEx (800-463-3339)

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CSF 29294 SDG E3099

Signature S. Zachero

Date 6/4/01

390

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

Case No:	29294
DAS No:	2001ZG07
SDG No:	E30C0

L

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

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
Tony Ballo	5/31/01 1745	[illegible]	6-1-01 11:15
2			
3			
4			

Sampler Signature:

For Lab Use Only

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

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION		SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY E30C0 Sample Condition On Receipt
E30B8	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050178 (Ice Only) (1)	AP-SD009-01	S:	5/30/01	15:34		
E30B9	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050180 (Ice Only) (1)	AP-SD009-02	S:	5/30/01	15:34		
E30C0	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050181 (Ice Only) (1)	AP-SD009-03	S:	5/30/01	15:34		
E30C1	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050182 (Ice Only) (1)	AP-SL033-04	S:	5/23/01	17:25		
E30C2	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050184 (Ice Only) (1)	AP-SL033-05	S:	5/23/01	17:25		
E30C3	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050185 (Ice Only) (1)	AP-SD008-01	S:	5/30/01	16:58		
E30C4	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050186 (Ice Only) (1)	AP-SD008-02	S:	5/30/01	16:58		
E30C5	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050187 (Ice Only) (1)	AP-SD008-03	S:	5/30/01	16:58		
E30C6	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050189 (Ice Only) (1)	AP-SD008-03DP	S:	5/30/01	16:58		
E30C7	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050191 (Ice Only) (1)	AP-SD008-04	S:	5/30/01	16:58		

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ORIGINAL DOCUMENTS ARE INCLUDED IN

CSF 29294 SDG E3099

Signature [illegible]

Date 6/4/01

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E30C0, E30E6	Additional Sampler Signature(s): [illegible]	Cooler Temperature Upon Receipt: 6.1 TB	Chain of Custody Seal Number: 80799 80800
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

TR Number: 5-201142833-053101-0001

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

Case No:	29294
DAS No:	2001ZG07
SDG No:	E30C0

L

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

Chain of Custody Record

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

Sampler Signature:

For Lab Use Only

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

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt E30C0
E30D3	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050199 (Ice Only) (1)	AP-SL032-01	S: 5/31/01 9:23		
E30D4	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050200 (Ice Only) (1)	AP-SL032-02	S: 5/31/01 9:23		
E30D5	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050201 (Ice Only) (1)	AP-SL032-03	S: 5/31/01 9:23		
E30D6	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050202 (Ice Only) (1)	AP-SL032-04	S: 5/31/01 9:23		
E30D7	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050203 (Ice Only) (1)	AP-SL022-01	S: 5/31/01 11:25		
E30D8	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050205 (Ice Only) (1)	AP-SL022-02	S: 5/31/01 11:25		
E30D9	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050207 (Ice Only) (1)	AP-SL022-03	S: 5/31/01 11:25		
E30E0	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050209 (Ice Only) (1)	AP-SL022-04	S: 5/31/01 11:25		
E30E1	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050210 (Ice Only) (1)	AP-SL012-01	S: 5/31/01 12:13		
E30E2	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050212 (Ice Only) (1)	AP-SL012-02	S: 5/31/01 12:13		

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E30C0, E30E6	Additional Sampler Signature(s): [illegible]	Cooler Temperature Upon Receipt: 6.1 IB	Chain of Custody Seal Number: 80799, 80800
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__

TR Number: 5-201142833-053101-0001

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

Case No:	29294
DAS No:	2001ZG07
SDG No:	E30C0

L

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

Chain of Custody Record

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

Sampler Signature:

For Lab Use Only

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

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt E30C0
E30E3	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050213 (Ice Only) (1)	AP-SL012-03	S: 5/31/01 12:13		
* E30E4	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050215 (Ice Only) (1)	AP-SD001-01	S: 5/31/01 14:45		
E30E5	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050218 (Ice Only) (1)	AP-SD001-02	S: 5/31/01 14:45		
E30E6	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050221 (Ice Only) (1)	AP-SD001-03	S: 5/31/01 14:45		
E30E7	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050223 (Ice Only) (1)	AP-SD001-04	S: 5/31/01 14:45		
E30E8	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050225 (Ice Only) (1)	AP-SD001-04DP	S: 5/31/01 14:45		
E30E9	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050226 (Ice Only) (1)	AP-SD001-05	S: 5/31/01 14:45		
E30F0	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050228 (Ice Only) (1)	AP-SD001-06	S: 5/31/01 14:45		
E30F1	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050230 (Ice Only) (1)	AP-SD003-01	S: 5/31/01 15:25		
E30F2	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050232 (Ice Only) (1)	AP-SD003-02	S: 5/31/01 15:25		

E33

* SDG Final Sample.

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E30C0, E30E6	Additional Sampler Signature(s): [illegible]	Cooler Temperature Upon Receipt: 6.1 °C	Chain of Custody Seal Number: 80799, 80807
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y Shipment Iced? Y

TR Number: 5-201142833-053101-0001

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Southwest Laboratory of Oklahoma
1700 W. Albany Suite C
Broken Arrow, OK 74012-1421

SAMPLE LOG-IN RECORD

REVIEWED
BY
DATE 06/01/01

Date 06/01/2001 Page1
Episode **46663**
Client **EPA**
Project OLM04.2
Received 06/01/01
Logged In 06/01/01

TEST	PRI	DUE	CONTAINER	DESCRIPTION	EXTRACTED	ANALYST	ANALYZED
Sample: **46663.01**			Sampled:05/30/01 15:34	ID:E30B8	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.02**			Sampled:05/30/01 15:34	ID:E30B9	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.03N1**			Sampled:05/30/01 15:34	ID:E30C0	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.04MS1**			Sampled:05/30/01 15:34	ID:E30C0MS	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.05SD1**			Sampled:05/30/01 15:34	ID:E30C0MSD	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.06**			Sampled:05/30/01 17:25	ID:E30C1	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.07**			Sampled:05/30/01 17:25	ID:E30C2	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.08**			Sampled:05/30/01 16:58	ID:E30C3	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.09**			Sampled:05/30/01 16:58	ID:E30C4	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.10**			Sampled:05/30/01 16:58	ID:E30C5	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.11**			Sampled:05/30/01 16:58	ID:E30C6	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.12**			Sampled:05/30/01 16:58	ID:E30C7	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.13**			Sampled:05/31/01 09:23	ID:E30D3	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.14**			Sampled:05/31/01 09:23	ID:E30D4	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			

COPY
ORIGINAL DOCUMENTS ARE ~~INCLUDED IN~~
CSF 29254 SDG E3095
Signature S Jackett
Date 6/4/01

Southwest Laboratory of Oklahoma
1700 W. Albany Suite C
Broken Arrow, OK 74012-1421

SAMPLE LOG-IN RECORD

Date 06/01/2001 Page2
Episode **46663**
Client **EPA**
Project OLM04.2
Received 06/01/01
Logged-In 06/01/01

TEST	PRI	DUE	CONTAINER	DESCRIPTION	EXTRACTED	ANALYST	ANALYZED
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.15**		Sampled:05/31/01 09:23		ID:E30D5	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.16**		Sampled:05/31/01 09:23		ID:E30D6	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.17**		Sampled:05/31/01 11:25		ID:E30D7	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.18**		Sampled:05/31/01 11:25		ID:E30D8	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.19**		Sampled:05/31/01 11:25		ID:E30D9	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.20**		Sampled:05/31/01 11:25		ID:E30E0	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.21**		Sampled:05/31/01 12:13		ID:E30E1	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.22**		Sampled:05/31/01 12:13		ID:E30E2	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.23**		Sampled:05/31/01 12:13		ID:E30E3	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.24**		Sampled:05/31/01 14:45		ID:E30E4	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.25**		Sampled:05/31/01 14:45		ID:E30E5	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.26N2**		Sampled:05/31/01 14:45		ID:E30E6	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.27MS2**		Sampled:05/31/01 14:45		ID:E30E6MS	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.28SD2**		Sampled:05/31/01 14:45		ID:E30E6MSD	SDG:	Matrix: S	Containers: 1

SAMPLE LOG-IN SHEET

Lab Name SOUTHWEST LABORATORY OF OKLAHOMA	Page 1 of 3
Received by (Print Name) JASON SPRIGGS	Log-In Date 2001-06-01 13:22
Received by (Signature)	
Case Number 29294	Sample Delivery Group No. E30C0
	SAS Number

Remarks: Cooler: 06/01/01-1

1. Custody Seals(s)	Present/Absent* Intact/ Broken
2. Custody Seal Nos.	80799-800
3. Chain-of Custody Records	Present/Absent*
4. Traffic Reports or Packing Lists	Present/Absent*
5. Airbill	Airbill/ Sticker Present/Absent*
6. Airbill No.	821876982126
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	6.1c
10. Does Information on Custody records, traffic reports, and sample tags agree?	Yes/ No*
11. Date Received at Lab	06/01/01
12. Time Received	11:15

Sample Transfer	
Fraction PCB	Fraction
Area # 9	Area #
By JS	By
On 6-1-01	On

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment: etc,
E30B8	5-050178	46663.01	
E30B9	5-050180	46663.02	
E30C0	5-050181	46663.03	
E30C0MS	5-050181	46663.04	
E30C0MSD	5-050181	46663.05	
E30C1	5-050182	46663.06	
E30C2	5-050184	46663.07	
E30C3	5-050185	46663.08	
E30C4	5-050186	46663.09	
E30C5	5-050187	46663.10	
E30C6	5-050189	46663.11	
E30C7	5-050191	46663.12	
E30D3	5-050199	46663.13	
E30D4	5-050200	46663.14	
E30D5	5-050201	46663.15	
E30D6	5-050202	46663.16	
E30D7	5-050203	46663.17	
E30D8	5-050205	46663.18	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3099
Signature
Date 6/4/01

COPY

* Contact SMO and attach record of resolution.

Reviewed By Jackie Spriggs	Logbook No.
Date 06/01/01	Logbook Page No.

FORM-DC1 OLM04.2

416

SAMPLE LOG-IN SHEET

Lab Name SOUTHWEST LABORATORY OF OKLAHOMA	Page 2 of 3
Received by (Print Name) JASON SPRIGGS	Log-In Date 2001-06-01 13:22
Received by (Signature)	
Case Number 29294	Sample Delivery Group No. E30C0 / SAS Number

Remarks: Cooler: 06/01/01-1

1. Custody Seals(s)	Present/Absent* Intact/ Broken
2. Custody Seal Nos.	80799-800
3. Chain-of Custody Records	Present/Absent*
4. Traffic Reports or Packing Lists	Present/Absent*
5. Airbill	Airbill/ Sticker Present/Absent*
6. Airbill No.	821876982126
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	6.1c
10. Does Information on Custody records, traffic reports, and sample tags agree?	Yes/ No*
11. Date Received at Lab	06/01/01
12. Time Received	11:15

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment: etc,
E30D9	5-050207	46663.19	
E30E0	5-050209	46663.20	
E30E1	5-050210	46663.21	
E30E2	5-050212	46663.22	
E30E3	5-050213	46663.23	
E30E4	5-050215	46663.24	
E30E5	5-050218	46663.25	
E30E6	5-050221	46663.26	
E30E6MS	5-050221	46663.27	
E30E6MSD	5-050221	46663.28	
E30E7	5-050223	46663.29	
E30E8	5-050225	46663.30	
E30E9	5-050226	46663.31	
E30F0	5-050228	46663.32	
E30F1	5-050230	46663.33	
E30F2	5-050232	46663.34	
E30F3	5-050234	46663.35	

Sample Transfer

Fraction PCB	Fraction
Area # 9	Area #
By JS	By
On 6-1-01	On

* Contact SMO and attach record of resolution.

Reviewed By [signature]	Logbook No.
Date 06/01/01	Logbook Page No.

FORM-DC1

OLM04.2

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 must 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.

REQUEST FOR MODIFIED ANALYSIS

EPA's Contract Laboratory Program is seeking current CLP laboratories interested in performing organic analysis through a modified analysis protocol administered through the SOW "flexibility clause" as presented in Section 4.2.2.8 Exhibit A, page A-8 The modifications presented further in this document neither increase or decrease the value of the product (sample analysis and full data deliverables) provided to EPA by the Contractor (as compared to worth of original product previously negotiated in the contract). Therefore, no upward or downward contract adjustments in price are necessary, i.e., the modified analysis will be performed at the same price as that stated in the original contract.

In order to facilitate this modified analysis protocol, and to still ensure quality analytical data, the changes to the SOW listed in the link below will need to be made: Laboratories volunteering to analyze samples by this protocol are requested to review the changes and then acknowledge their desire to participate by signing, dating, and returning the acknowledgment document at the end of the request document.

It is not mandatory that laboratories agree to perform modified analyses, and laboratories will not be adversely affected by not performing modified analyses. All samples that are to be analyzed by the modified protocol will be distributed to the volunteer laboratories according to the sample scheduling Standard Operating Procedure (SOP). Volunteer laboratories are not guaranteed to receive samples under the modified protocol.

MODIFIED ANALYSIS FORM

Modification Reference Number: PCB-REG5

Estimated Number of Samples: 1400

Estimated Sampling Date: 3/21/2001 -

Sample Matrix: Soil and Sediments

Fractions Affected: Pesticides/ PCBs

Specific Modifications: See below:

SOUTHWEST LABORATORY OF OKLAHOMA

ANALYTICAL REQUEST FORM, SWL-GA-131

Ref# 5033

Client	ACCOUNTING OFFICER	Client Code:	EPA
Contact	Heather Bauer	Phone&Fax#:	703-264-9348 703-264-9222
Project	OLM04.2	PO Number:	
Location	29294	Receipt Date	06/01/2001 Due: 06/07/2001
SDG	Open	Sample TAT:	Fax Rpt 7
Reports			
Data Pkgs	CLP: 2		
EDD			

Special Provisions: Must use arochlor 1254 for LCS/LCSD & MS/MSD
Samples need to be GPCed, silica gel cleaned & Acid cleaned.
Case#29294, to date WK OF 5/28: 75 soils , 4 sets QC

Client ID	Type	Matrix	GC699
E30B8		S	X
E30B9		S	X
E30C0	N1	S	X
30C0MS	MS1	S	X
E30C0MSD	SD1	S	X
E30C1		S	X
E30C2		S	X
E30C3		S	X
E30C4		S	X
E30C5		S	X
E30C6		S	X
E30C7		S	X
E30D3		S	X
E30D4		S	X
E30D5		S	X
E30D6		S	X
E30D7		S	X
E30D8		S	X
E30D9		S	X
E30E0		S	X

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG 83095
Signature S. Jackson
Date 6/4/01

Reporting Address: ACCOUNTING OFFICER
Attn:;FINANCIAL MANAGEMENT DIVISION,ACCOUNTING OFFICE MD-32,RESEARCH TRIANGLE P

Billing Address: Same As Reporting Address

421

Project Officer: HARRY M. BORG

Prepared 06/01/2001

SOUTHWEST LABORATORY OF OKLAHOMA

ANALYTICAL REQUEST FORM, SWL-GA-131

Ref# 5033

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Client ID	Type	Matrix	GC699									
E30E1		S	X									
E30E2		S	X									
E30E3		S	X									
30E4		S	X									
E30E5		S	X									
E30E6	N2	S	X									
E30E6MS	MS2	S	X									
E30E6MSD	SD2	S	X									
E30E7		S	X									
E30E8		S	X									
E30E9		S	X									
E30F0		S	X									
E30F1		S	X									
E30F2		S	X									
E30F3		S	X									
E30F4		S	X									
E30F8		S	X									
E30F9		S	X									
E30G0		S	X									
E30G1		S	X									

Reporting Address: ACCOUNTING OFFICER
Attn:;FINANCIAL MANAGEMENT DIVISION,ACCOUNTING OFFICE MD-32,RESEARCH TRIANGLE P

Billing Address: Same As Reporting Address

422

Project Officer: HARRY M. BORG

Prepared 06/01/2001