Data Review Wednesday, October 10, 2001
Site Name: Allied Paper (MI)
Case Number: 29602 Laboratory: Southwest Laboratory
SDG: E02R5

US EPA RECORDS CENTER REGION 5
560093

PCBs

Samples:

Sample No	Station Location	Matrix	Date Collected	Date Extracted	Date Analyzed
E02R5	AP-SD036-02-03	Soil	08/15/01	08/16/01	09/19/01
E02R6	AP-SD036-02-04	Soil	08/15/01	08/16/01	09/19/01
E02R7	AP-SD036-02-05	Soil	08/15/01	08/16/01	09/19/01
E02R8	AP-SD036-02-05DP	Soil	08/15/01	08/16/01	09/19/01
E02R9	AP-SD036-28-01	Soil	08/15/01	08/16/01	09/19/01
E02S0	AP-SD036-28-02	Soil	08/15/01	08/16/01	09/19/01
E02S1	AP-SD036-28-03	Soil	08/15/01	08/16/01	09/19/01
E02S2	AP-SD036-28-04	Soil	08/15/01	08/16/01	09/19/01
E02S3	AP-SD036-28-05	Soil	08/15/01	08/16/01	09/19/01
E02S4	AP-SD036-10-01	Soil	08/15/01	08/16/01	09/19/01
E02S5	AP-SD036-10-02	Soil	08/15/01	08/16/01	09/19/01
E02S6	AP-SD036-10-03	Soil	08/15/01	08/16/01	09/19/01
E02S7	AP-SD036-10-04	Soil	08/15/01	08/16/01	09/19/01
E02S8	AP-SD036-10-05	Soil	08/15/01	08/16/01	09/19/01

Holding Time:

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

Method Blank:

The method blank PBLKSG was associated with this SDG. PBLKSG was analyzed on 09/14/01 with (E02R5 thru E02R9, E02S0 thru E02S8, E02R5DL, E02S5DL, and MS/MSD). The PBLKSG results were free of contamination. All samples underwent OLMO4.2 cleanup, Silica Gel Cleanup, and sulfuric acid cleanup prior analysis. All instrument blanks associated with this sample set were free of contamination.

Surrogate Recovery:

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

Matrix Spike/ Matrix Spike Duplicate Recovery:

The matrix spike/ matrix spike duplicate audit was performed on sample E02S8. The matrix spike/ matrix spike duplicate recoveries were within the quality control limits (29-135%). Also, the relative percent difference (RPD %) recovery was acceptable.

Laboratory Control Sample Recovery:
The laboratory control sample/laboratory control sample duplicate, and the (RPD%) relative percent difference recoveries were within the quality control limits (29 to 135%).

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

Initial And Continuing Verifications Calibration:
The initial calibrations were analyzed for the arochlor, and the recoveries were within the quality control limit of an average (RSD 20%).
The multi-component calibration verification recoveries were within the quality control limit of an average (RSD 15%).

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

Data Reviewed By: Tania Balikji-Shammo Date: 10/09/01

D67-4A - AAXR

DATE: October 3, 2001

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

RECEIVED OCT - 5 2001

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

Attn: Tonya Balla

SITE NAME: Allied Paper

CASE NO.	LAB	NO # OF SAMPLES	SDG	MATRIX
29602	SOUTHWEST	14	E02R5	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

TB

SEP 2 5 2001

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME SOUTHWEST LABORATORY OF OKLAHOMA
CITY/STATE BROKEN ARROW, OKLAHOMA

CASE NO. 29602 SDG NO. E0285 SDG NOS. TO FOLLOW
SAS NO.

CONTRACT NO. 68W99079
SOW NO. OLM04.2

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

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
1. Inventory Sheet (Form DC-2) (Do not Number)			EM	
2. SDG Case Narrative	1	2	✓	
3. SDG Cover Sheet/Traffic Report	3	5	✓	
4. Volatiles Data			✓	
a. QC Summary			✓	
System Monitoring Compound Summary (Form II	N/A	N/A	✓	
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)	✓	✓	✓	
Method Blank Summary (Form IV VOA)	✓	✓	✓	
GC/MS Instrument Performance Check (Form V VOA)	✓	✓	✓	
Internal Standard Area and RT Summary (Form VIII VOA)	✓	✓	✓	
b. Sample Data	✓	✓	✓	
TCL Results - (Form I VOA-1, VOA-2)	✓	✓	✓	
Tentatively Identified Compounds (Form I VOA-	✓	✓	✓	
Reconstructed total ion chromatograms (RIC) for each sample	✓	✓	✓	
For each sample:	✓	✓	✓	
Raw Spectra and background-subtracted mass spectra of target compounds identified	✓	✓	✓	
Quantitation reports	✓	✓	✓	
Mass Spectra of all reported TICs with three best library matches	✓	✓	✓	
c. Standards Data (All Instruments)	✓	✓	✓	
Initial Calibration Data (Form VI VOA-1, VOA-2)	✓	✓	✓	
RICs and Quan Reports for all Standards	✓	✓	✓	
Continuing Calibration Data (Form VII VOA-1, VOA-2)	✓	✓	✓	
RICs and Quantitation Reports for all Standards	✓	✓	✓	
d. Raw QC Data	✓	✓	✓	
BFB	✓	✓	✓	
Blank Data	✓	✓	✓	
Martix Spike/Matrix Spike Duplicate Data	✓	✓	✓	

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

CASE NO. 39600 SDG NO. E03R5 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

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

EM 9-24-01

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

CASE NO. 29602 SDG NO. E02R5 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. Pesticides Data (Cont.)				
b. Sample Data	10	108		
TCL Results - Organic Analysis Data Sheet (Form I PEST)			EM	
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	109	300		
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	301	331		
Matrix Spke/Matrix Spike Duplicate Data	332	351		

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

CASE NO. 29602 SDG NO. E02R5 SDG NOS. TO FOLLOW _____
_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. Pesticides Data (Cont.)				
e. Raw GPC Data	352	390	EM	
f. Raw Florisil Data	N/A	N/A		
7. Miscellaneous Data				
Original preparation and analysis forms or of preparation and analysis logbook pages	391	398		
Internal sample and sample extract transfer chain-of-custody records	399	402		
Screening records	N/A	N/A		
All instrument output, including strip charts from screening activities (describe or list)				
8. EPA Shipping/Receiving Documents				
Airbills (No. of shipments 1)	403	403		
Chain-of-Custody Records	404	405		
Sample Tags	406	419		
Sample Log-in Sheet (Lab & DC1)	420	422		
Miscellaneous Shipping/Receiving Records (describe or list)				
Analytical Request Form	423	431		
E-mails	N/A	N/A		
9. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
10. Other Records (describe or list)				
Telephone Communication Log				

11. Comments: _____

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

CASE NO. 29602 SDG NO. E02R5 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

Completed by: (CLP Lab)	Carlyn Tackett (Signature)	Carlyn Tackett/DATA CLERK (Printed Name/Title)	9-24-01 (Date)
Verified by: (CLP Lab)	Emma Morton (Signature)	Emma Morton Data Clerk (Printed Name/Title)	9-24-01 (Date)
Audited by: (EPA)	(Signature)	(Printed Name/Title)	(Date)

SEP 2 5 2001

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

SDG NARRATIVE

September 24, 2001

CONTRACT: 68W99079

CASE NO: 29602

SDG NO: E02R5

SAMPLES: E02R5, E02R5DL, E02R6, E02R7, E02R8, E02R9, E02S0, E02S1, E02S2, E02S3, E02S4, E02S5, E02S5DL, E02S6, E02S7, E02S8, E02S8MS and E02S8MSD.

FRACTION: Pesticide/PCB

Fourteen 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 Restek dual analytical columns RTX-PEST (also known as PEST I)(proprietary phase composition, length 30m, id 0.32 mm, film thickness 0.5 um) and RTX-PEST 2 (also known as PEST II) (proprietary phase composition, length 30m, id 0.32 mm, film thickness 0.25 um) columns which were specifically designed for pesticide/PCB separation as required by the EPA's SOW. All applicable manufacturer's instructions were followed for the analysis of pesticides/PCBs. Manufacturer provided information on the performance characteristics of the columns are kept on site. Hydrogen used as the carrier gas.

The following sample in this SDG labeled with a DL is considered billable since this sample was diluted to get target compounds within instruments linear range: E02R5DL and E02S5DL.

The sample cooler arrived at 2.1 degrees Celsius. This SDG was closed with less than 20 samples as per region (see e-mail log).

The modification for these soils included the following cleanups: OLM04.2 GPC cleanup followed by SW846 method 3630 Silica Gel Cleanup which was then followed by SW846- method 3665 sulfuric acid cleanup prior to analyses. No florisil clean up was necessary as part of the modification. As per e-mail correspondence of 8/24/01 the laboratory had made a modification for initial dilution and if PCBs are within instruments linear range no 10X more concentrated analyses will be performed by the laboratory.

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

Surrogates: All surrogates were within QC limits with the following exceptions:

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

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

Retention Times: All retention times were within QC limits.

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

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

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

Calibration Verifications: Calibration verifications were analyzed for Aroclors 1016 and 1260. All percent differences were within QC limits (average of all peaks at ≥ 15%).

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

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

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

Harry M. Borg
Organic Program Manager September 24, 2001

Contract Laboratory Program

Sample Delivery Group (SDG)
Cover Sheet

SDG Number E02R5

ST 8/7/01

Laboratory Name Southwest Laboratory of Ok. Laboratory Code SWOK

Contract No. 68W99079 Case No. ~~OLM04.2~~ 29602

Analyses Price 569.00 SDG Turnaround 21

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E02R5	7) E02S1	13) E02S7	19)
2) E02R6	8) E02S2	14) E02S8	20)
3) E02R7	9) E02S3	15)	21)
4) E02R8	10) E02S4	16)	22)
5) E02R9	11) E02S5	17)	23)
6) E02S0	12) E02S6	18)	24)

ST 8/7/01

ST 8/7/01

E02R5	E02S8
First Sample in SDG	Last Sample in SDG
08/16/2001	08/16/2001
First Sample Receipt Date	Last Sample Receipt Date

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

Signature Harry M Borg Date 8-17-01

8

S-17-01

Version 2.0

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

Case No: 29602
DAS No:
SDG No: E02R5 L

Date Shipped: 8/15/2001
Carrier Name: FedEx
Airbill: 821876982090
Shipped to: Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	8-15-01 1730		8-16-01 8:15
2			
3			
4			

Sampler Signature:

For Lab Use Only
Lab Contract No: 68W99079
Unit Price: $69.00
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION		SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E02R4	Sediment/ Joe Ruiz	L/G	PCBs (21)	038892 (Ice Only) (1)	AP-SD036-02-02	S:	8/15/2001	11:30	original in SDG# E02P5	ck
E02R5	Sediment/ Joe Ruiz	L/G	PCBs (21)	038893 (Ice Only) (1)	AP-SD036-02-03	S:	8/15/2001	11:30		8-16-01
E02R6	Sediment/ Joe Ruiz	L/G	PCBs (21)	038894 (Ice Only) (1)	AP-SD036-02-04	S:	8/15/2001	11:30		
E02R7	Sediment/ Joe Ruiz	L/G	PCBs (21)	038895 (Ice Only) (1)	AP-SD036-02-05	S:	8/15/2001	11:30		
E02R8	Sediment/ Joe Ruiz	L/G	PCBs (21)	038896 (Ice Only) (1)	AP-SD036-02-05DP	S:	8/15/2001	11:30		
E02R9	Sediment/ Joe Ruiz	L/G	PCBs (21)	038897 (Ice Only) (1)	AP-SD036-28-01	S:	8/15/2001	11:10		
E02S0	Sediment/ Joe Ruiz	L/G	PCBs (21)	038898 (Ice Only) (1)	AP-SD036-28-02	S:	8/15/2001	11:10		
E02S1	Sediment/ Joe Ruiz	L/G	PCBs (21)	038899 (Ice Only) (1)	AP-SD036-28-03	S:	8/15/2001	11:10		
E02S2	Sediment/ Joe Ruiz	L/G	PCBs (21)	038900 (Ice Only) (1)	AP-SD036-28-04	S:	8/15/2001	11:10		
E02S3	Sediment/ Joe Ruiz	L/G	PCBs (21)	038901 (Ice Only) (1)	AP-SD036-28-05	S:	8/15/2001	11:10		

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E02N8, E02Q8, E02S8		2.1°C TB	177830, 177831

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

R Number: 5-490998136-081501-0001

LABORATORY COPY

t provides p inary results. Requests for preliminary results will increase analytical cost
nd Copy to ract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Res A. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

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

Case No: 29602
DAS No:
SDG No: E02R5 **L**

Date Shipped: 8/15/2001
Carrier Name: FedEx
Airbill: 821876982090
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]	8-15-01 1730	[illegible]	8-16-01 8:18
2			
3			
4			

Sampler Signature: [illegible]

For Lab Use Only
Lab Contract No: 68W99079
Unit Price: $69.00
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION		SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY E02R5 Sample Condition On Receipt
E02S4	Sediment/ Joe Ruiz	L/G	PCBs (21)	038902 (Ice Only) (1)	AP-SD036-10-01	S:	8/15/2001	11:45		•IC
E02S5	Sediment/ Joe Ruiz	L/G	PCBs (21)	038903 (Ice Only) (1)	AP-SD036-10-02	S:	8/15/2001	11:45		8-16-01 OK
E02S6	Sediment/ Joe Ruiz	L/G	PCBs (21)	038904 (Ice Only) (1)	AP-SD036-10-03	S:	8/15/2001	11:45		
E02S7	Sediment/ Joe Ruiz	L/G	PCBs (21)	038905 (Ice Only) (1)	AP-SD036-10-04	S:	8/15/2001	11:45		
* E02S8	Sediment/ Joe Ruiz	L/G	PCBs (21)	038906 (Ice Only) (1)	AP-SD036-10-05	S:	8/15/2001	11:45		
E02Q2	Sediment/ Joe Ruiz	L/G	PCBs (21)	038880 (Ice Only) (1)	AP-SD030-11-01	S:	8/15/2001	9:23		original in SDG # E02P5
E02Q3	Sediment/ Joe Ruiz	L/G	PCBs (21)	038881 (Ice Only) (1)	AP-SD030-30-01	S:	8/14/2001	16:40		
E02Q4	Sediment/ Joe Ruiz	L/G	PCBs (21)	038882 (Ice Only) (1)	AP-SD030-30-02	S:	8/14/2001	16:40		
E02Q8	Sediment/ Joe Ruiz	L/G	PCBs (21)	038886 (Ice Only) (1)	AP-SD036-04-01	S:	8/15/2001	11:40		
E02Q9	Sediment/ Joe Ruiz	L/G	PCBs (21)	038887 (Ice Only) (1)	AP-SD036-04-02	S:	8/15/2001	11:40		

*SDG Final Sample

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E02N8, E02Q8, E02S8		2/°C TB	177839 177831

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

R Number: 5-490998136-081501-0001

LABORATORY COPY

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

2F
SOIL AROCLOR SURROGATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

GC Column(1): PEST I ID: 0.32(mm) GC Column(2): PEST II ID: 0.32(mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	TOT OUT
01	PBLKSG	70	75	113	116	0
02	ELCS1	77	84	113	119	0
03	ELCS2	87	93	138	145	0
04	E02R5	88	61	97	128	0
05	E02R6	60	52	55	73	0
06	E02R7	58	51	55	72	0
07	E02R8	62	56	64	98	0
08	E02R9	72	66	83	92	0
09	E02S0	65	57	69	79	0
10	E02S1	74	57	72	82	0
11	E02S2	59	55	66	73	0
12	E02S3	59	60	71	74	0
13	E02S4	77	70	93	100	0
14	E02S5	62	52	94	122	0
15	E02S6	63	55	68	97	0
16	E02S7	56	50	53	72	0
17	E02S8	60	53	64	89	0
18	E02S8MS	61	54	67	81	0
19	E02S8MSD	55	49	52	64	0
20	E02R5DL	107	66	115	105	0
21	E02S5DL	75	56	116	110	0
22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS

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

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

3H

SOIL AROCLOR LABORATORY CONTROL SPIKE/ DUPLICATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

LCS Sample NO.: ELCS1

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

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	133	146	110	21	50	29-135

Column to be used to flag recovery values

* Values outside of QC limits

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

Comments: _____

3F

SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix Spike - Client Sample NO.: E02S8

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aroclor-1254	293	0	149	51	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	292	141	48	6	50	29-135

Column to be used to flag recovery values

* Values outside of QC limits

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

Comments: _____

4C

AROCLOR METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLKSG

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Lab Sample ID: BL0816SG Lab File ID: 7_091403

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

Sulfur Cleanup: (Y/N) Y Date Extracted: 08/16/01

Date Analyzed (1): 09/14/01 Date Analyzed (2): 09/14/01

Time Analyzed (1): 0811 Time Analyzed (2): 0811

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II 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	LC0816SG	09/14/01	09/14/01
02	ELCS2	LD0816SG	09/14/01	09/14/01
03	E02R5	47294.01	09/19/01	09/19/01
04	E02R6	47294.02	09/19/01	09/19/01
05	E02R7	47294.03	09/19/01	09/19/01
06	E02R8	47294.04	09/19/01	09/19/01
07	E02R9	47294.05	09/19/01	09/19/01
08	E02S0	47294.06	09/19/01	09/19/01
09	E02S1	47294.07	09/19/01	09/19/01
10	E02S2	47294.08	09/19/01	09/19/01
11	E02S3	47294.09	09/19/01	09/19/01
12	E02S4	47294.10	09/19/01	09/19/01
13	E02S5	47294.11	09/19/01	09/19/01
14	E02S6	47294.12	09/19/01	09/19/01
15	E02S7	47294.13	09/19/01	09/19/01
16	E02S8	47294.14	09/19/01	09/19/01
17	E02S8MS	47294.15MS	09/19/01	09/19/01
18	E02S8MSD	47294.16MSD	09/19/01	09/19/01
19	E02R5DL	47294.01DL	09/20/01	09/20/01
20	E02S5DL	47294.11DL	09/20/01	09/20/01
21				
22				
23				
24				
25				
26				

Comments: _____

HYDROGEN USED AS CARRIER GAS FOR SAMPLE ANALYSES

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02R5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) SOIL Lab Sample ID: 47294.01

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

% Moisture: 59 decanted: (Y/N) __ Date Received: 08/16/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/16/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/19/01

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	78	U
11104-28-2	Aroclor-1221	78	U
11141-16-5	Aroclor-1232	78	U
53469-21-9	Aroclor-1242	~~3800~~	3900D ~~EP~~
12672-29-6	Aroclor-1248	78	U
11097-69-1	Aroclor-1254	~~1000~~	880D ~~EP~~
11096-82-5	Aroclor-1260	380	P
Surrogate amount spiked		15.79	

apply this results TB 10-9-01 TB 10/10

FORM I PCB

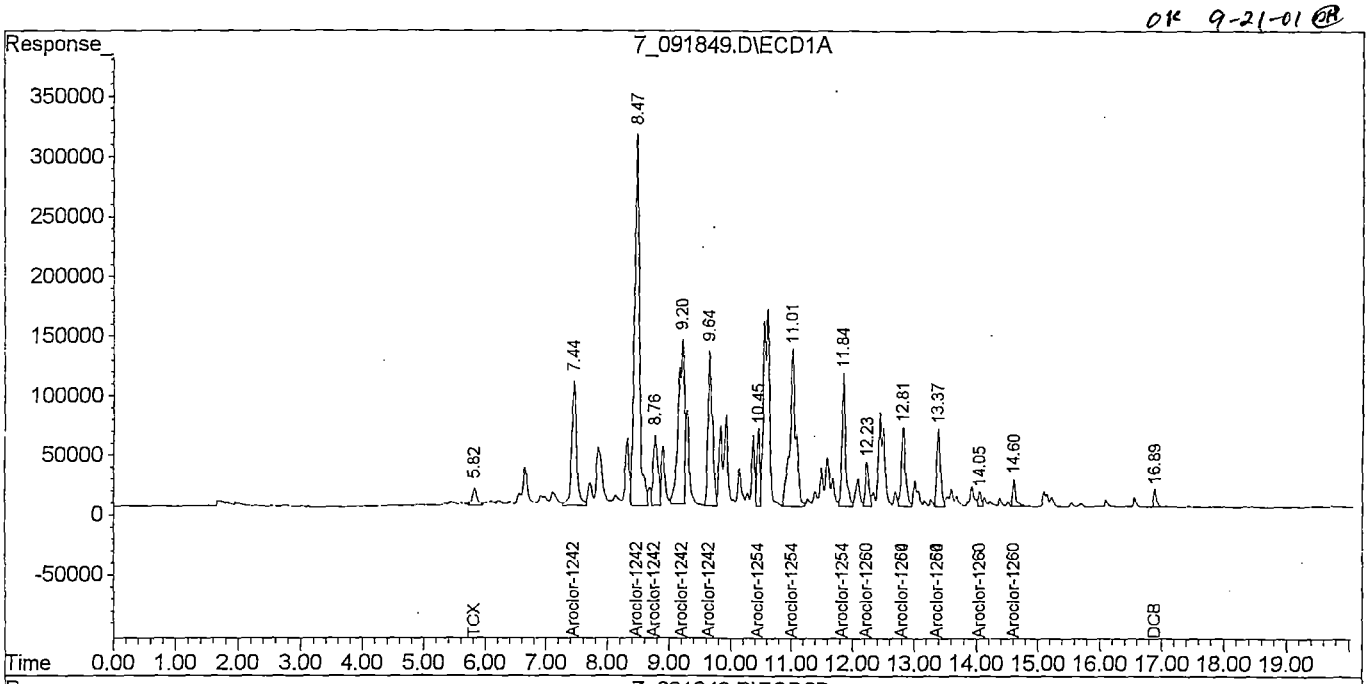
Chromatographic Report

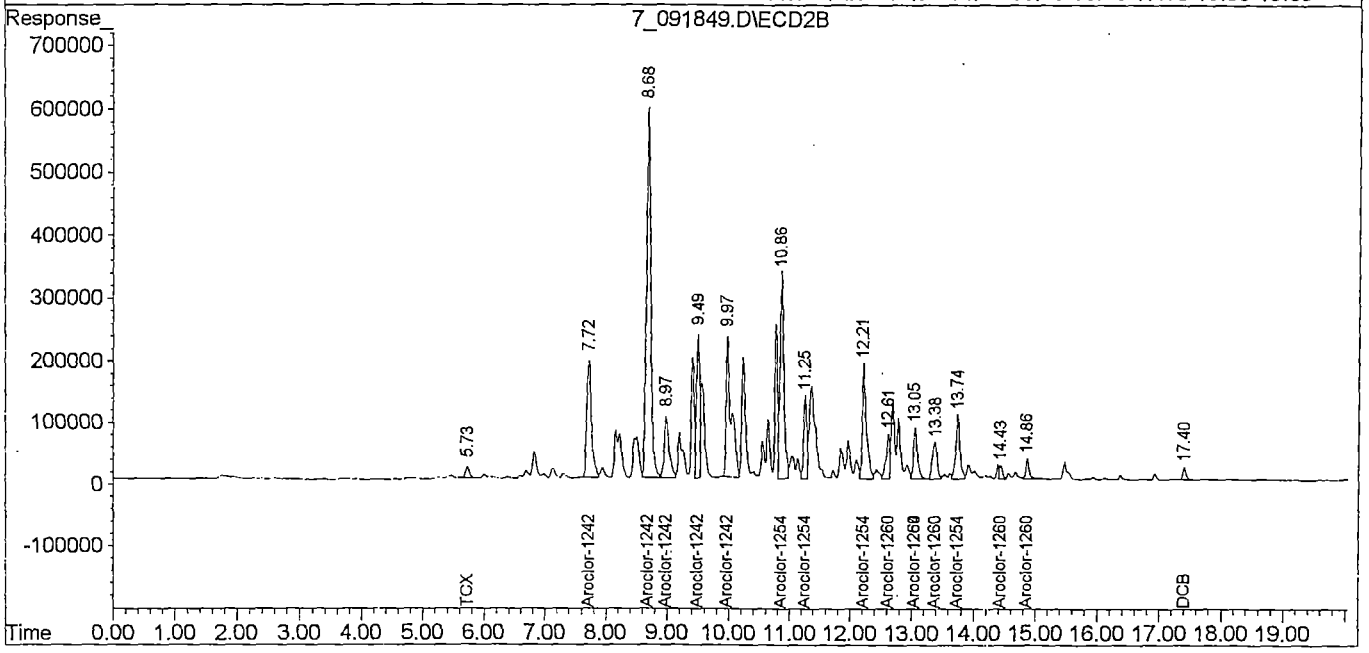
Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091849.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091849.D\ECD2B.CH
Acq On : 19 Sep 2001 2:55 Operator: SA
Sample : 47294.01 *E02R5 * Inst : HP_07
Misc : *EPA*30.9G/5.0ML*59 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:32 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

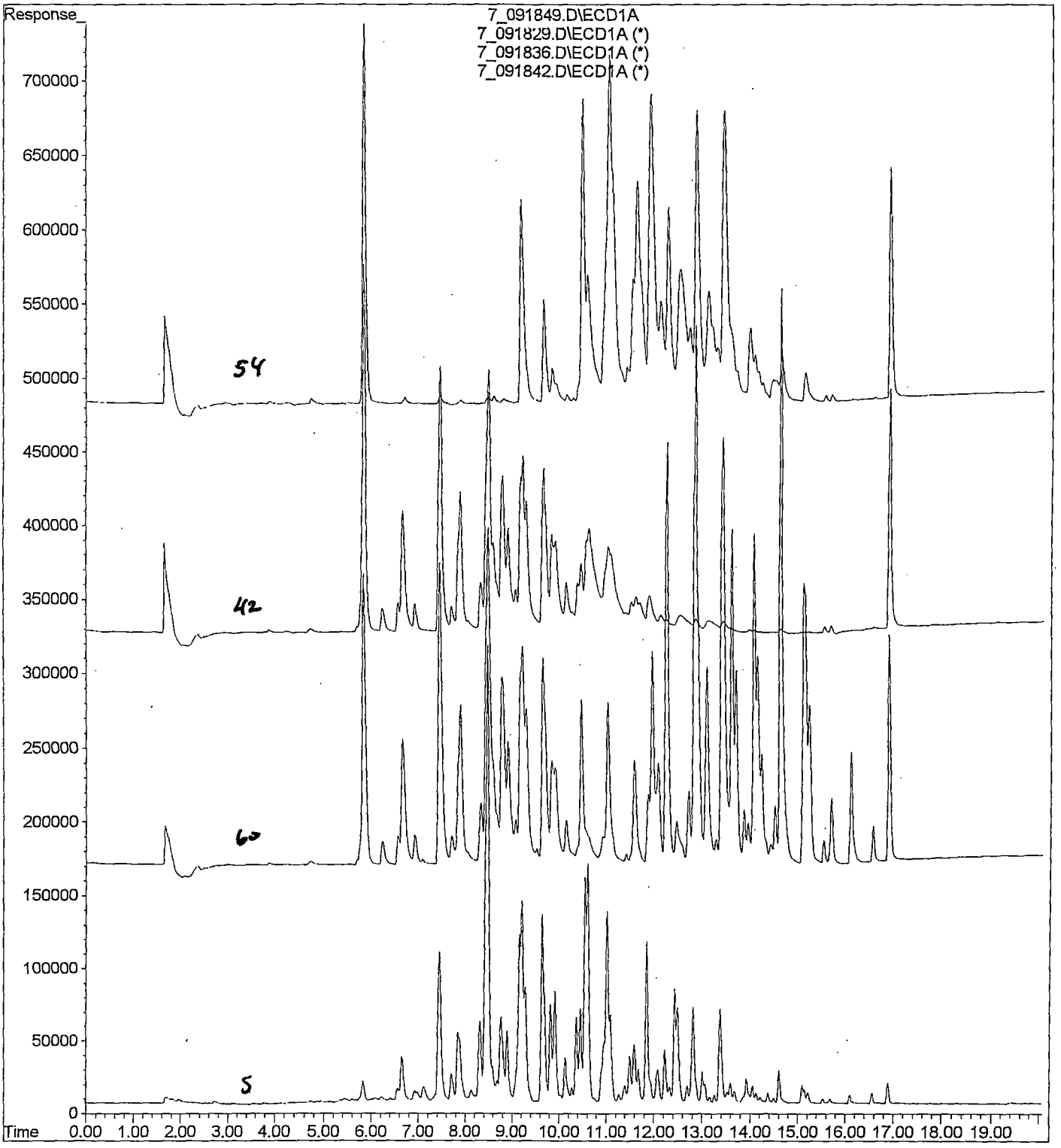
OK 9-21-01





File : F:\HPCHEM\HP\7\DATA\09_19_01\7_091849.D
Operator : SA
Acquired : 19 Sep 2001 2:55 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47294.01 *E02R5 *
Misc Info : *EPA*30.9G/5.0ML*59
Vial Number: 24

OK 9-21-01



Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091849.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091849.D\ECD2B.CH
Acq On : 19 Sep 2001 2:55 Operator: SA
Sample : 47294.01 *E02R5 * Inst : HP_07
Misc : *EPA*30.9G/5.0ML*59 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:32 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

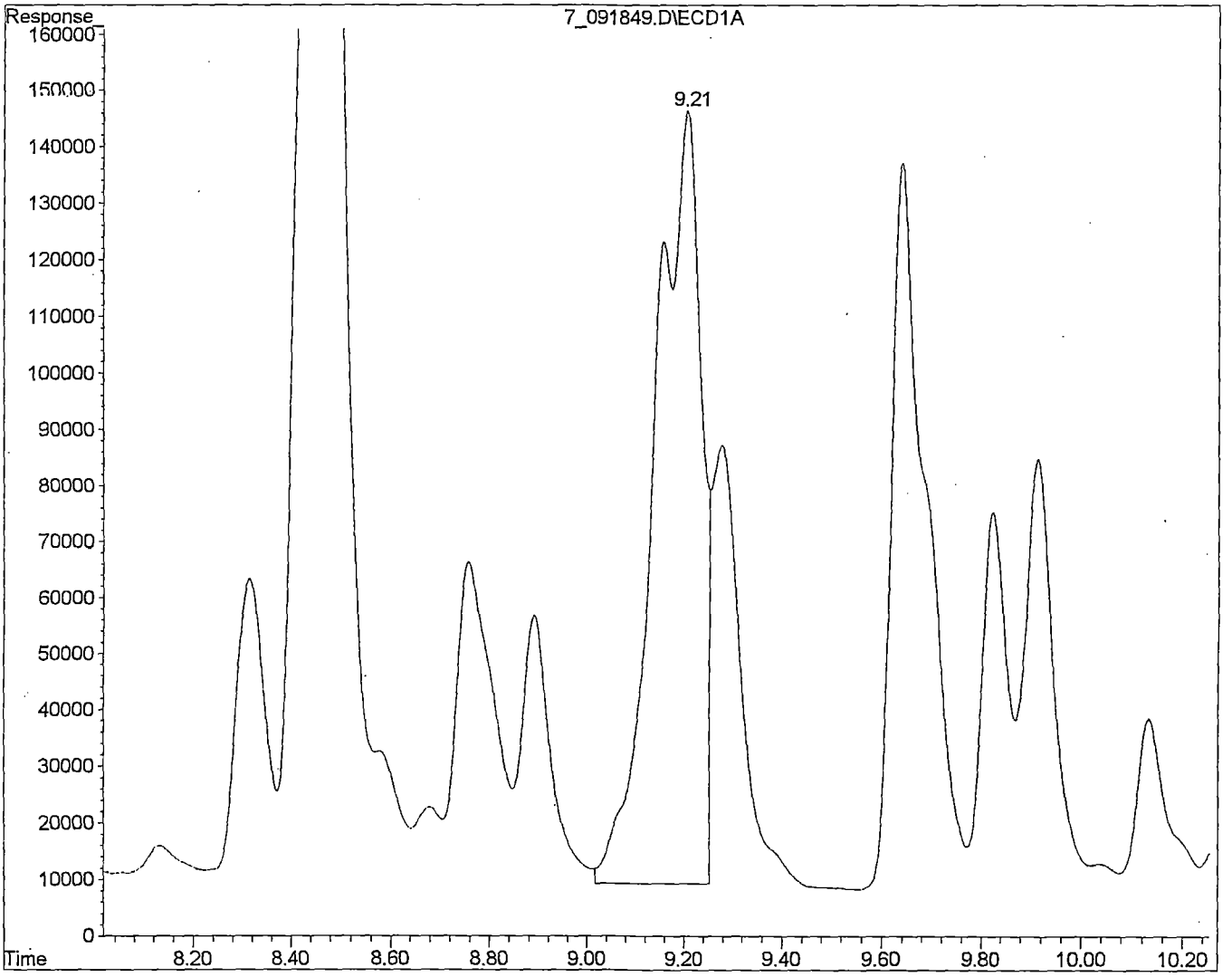
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.72	761591	804608	14.0	9.649	#
	Spiked Amount 15.787			Recovery	=	88.68%	61.12%	
22)	S DCB	16.89	17.40	448924	756471	15.3	20.2m	#
	Spiked Amount 15.787			Recovery	=	96.92%	127.96%	
	Target Compounds:							
7)	L4 Aroclor-1242	7.44	7.72	5631971	10177533	2410.2 E	3079.4 E#	
8)	L4 Aroclor-1242 {2}	8.46	8.68	17409546	29124262	5784.2 E	8840.6 E#	
9)	L4 Aroclor-1242 {3}	8.76	8.97	3073538	5481159	2042.1 E	2163.7 E	
10)	L4 Aroclor-1242 {4}	9.20	9.49	9106332	9123805	5008.3mE	5904.8 E	
11)	L4 Aroclor-1242 {5}	9.64	9.97	6372847	13295462	3774.4 E	5198.3mE#	
	Sum Aroclor-1242			41594234	67202221	19019.2	25186.8	
	Average Aroclor-1242					3803.839	5037.365	
12)	L6 Aroclor-1254	10.45	10.86	2235971	14444971	970.1	3506.4 E#	
13)	L6 Aroclor-1254 {2}	11.01	11.26f	9019663	4788028	1476.5 E	1364.4 E	
14)	L6 Aroclor-1254 {3}	11.84	12.21f	4329214	8468006	1096.9	1295.5	
15)	L6 Aroclor-1254 {4}	12.81	13.05f	3009451	3738752	969.5	1101.5	
16)	L6 Aroclor-1254 {5}	13.37	13.74f	2703746	4745895	634.1	773.0	
	Sum Aroclor-1254			21298045	36185652	5147.2	8040.8	
	Average Aroclor-1254					1029.440	1608.157	
17)	L7 Aroclor-1260	12.23	12.62	1348838	2926018	402.5	545.9	#
18)	L7 Aroclor-1260 {2}	12.81	13.05f	3009451	3738752	539.3	701.6	#
19)	L7 Aroclor-1260 {3}	13.37	13.38	2703746	3261426	606.5	683.8	
20)	L7 Aroclor-1260 {4}	14.05	14.43	392519	781840	190.6	243.6	#
21)	L7 Aroclor-1260 {5}	14.60	14.86	803855	1266337	173.0	225.5	#
	Sum Aroclor-1260			8258408	11974373	1509.1	1894.6	
	Average Aroclor-1260					382.374	480.066	

✓ 9.15.9

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091849.D
Date Acquired: 19 Sep 2001 2:55
Inst: HP_07 Operator ID: SA
Name: 47294.01 *E02R5 *
Misc: *EPA*30.9G/5.0ML*59
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:32 2001 Quant Results File: XPCBI18.RES



Aroclor-1242 {4} 9.21min area: 9106332 m

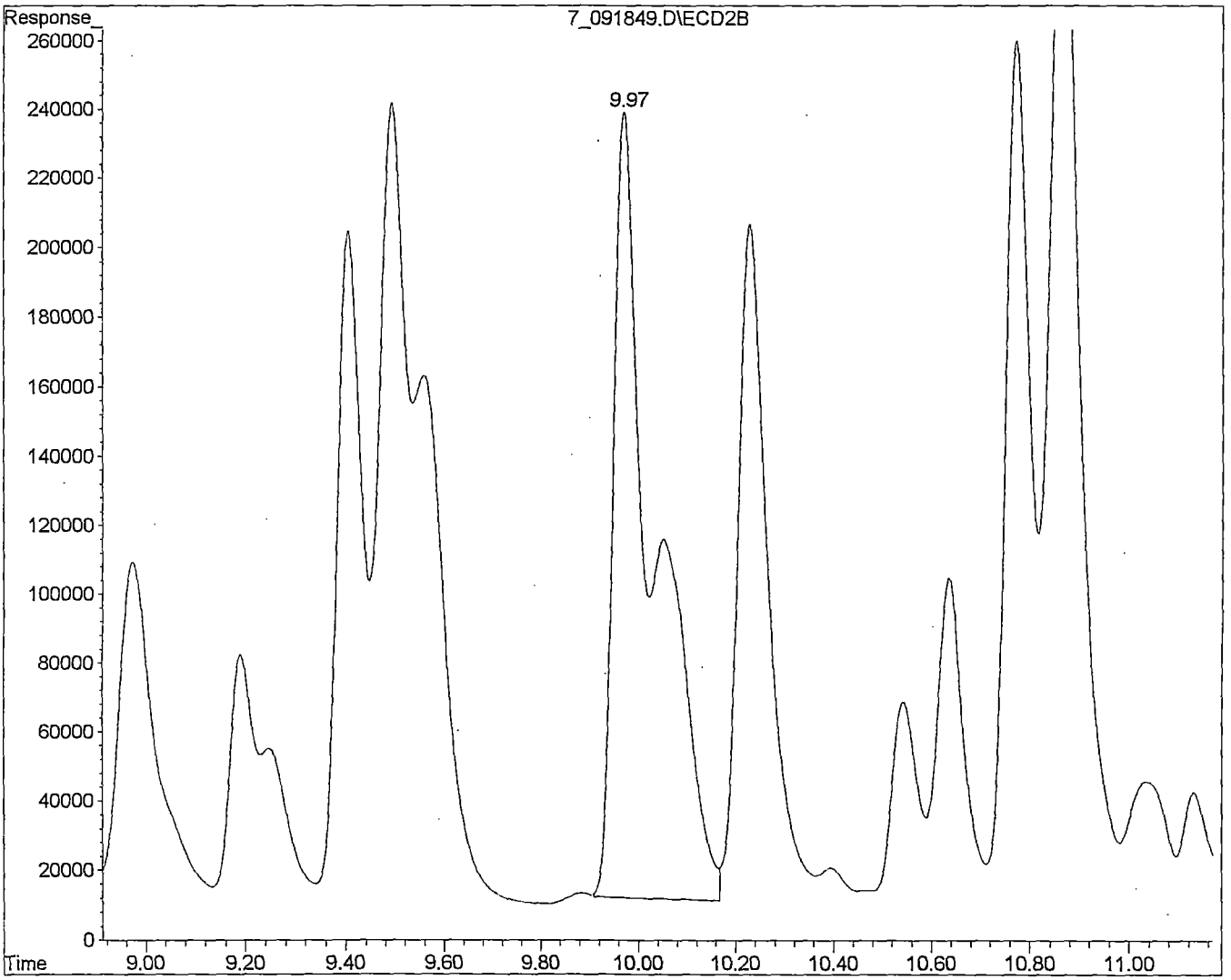
Integration Time Range: 9.02 - 9.25

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_19_01\7_091849.D
Report generated: Wed Sep 19 10:52:12 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091849.D
Date Acquired: 19 Sep 2001 2:55
Inst: HP_07 Operator ID: SA
Name: 47294.01 *E02R5 *
Misc: *EPA*30.9G/5.0ML*59
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:32 2001 Quant Results File: XPCBI18.RES



cd 9-19-01

Aroclor-1242 {5} #2 9.97min area: 13295462 m

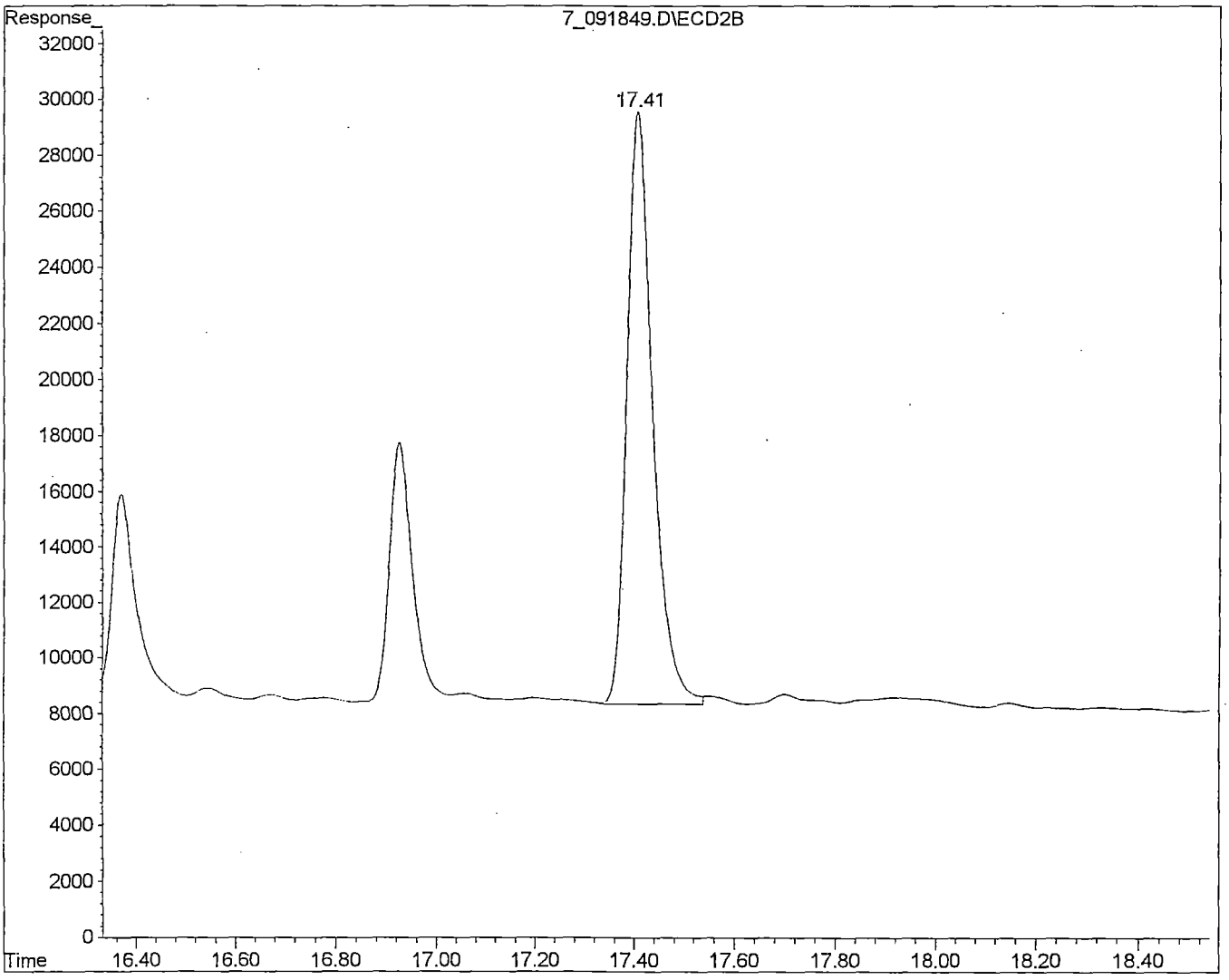
Integration Time Range: 9.91 - 10.17

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_19_01\7_091849.D
Report generated: Wed Sep 19 10:52:13 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091849.D
Date Acquired: 19 Sep 2001 2:55
Inst: HP_07 Operator ID: SA
Name: 47294.01 *E02R5 *
Misc: *EPA*30.9G/5.0ML*59
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:32 2001 Quant Results File: XPCBI18.RES



DCB #2 17.40min area: 756471 m

Integration Time Range: 17.33 - 17.54

F:\HPCHEM\HP\7\DATA\09_19_01\7_091849.D
Report generated: Wed Sep 19 10:52:14 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02R5DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) SOIL Lab Sample ID: 47294.01DL

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

% Moisture: 59 decanted: (Y/N) __ Date Received: 08/16/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/16/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/20/01

Injection Volume: 0.5(uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	780	U
11104-28-2	Aroclor-1221	780	U
11141-16-5	Aroclor-1232	780	U
53469-21-9	Aroclor-1242	3900	D
12672-29-6	Aroclor-1248	780	U
11097-69-1	Aroclor-1254	880	D
11096-82-5	Aroclor-1260	400	DJ
Surrogate amount spiked		15.79	

FORM I PCB

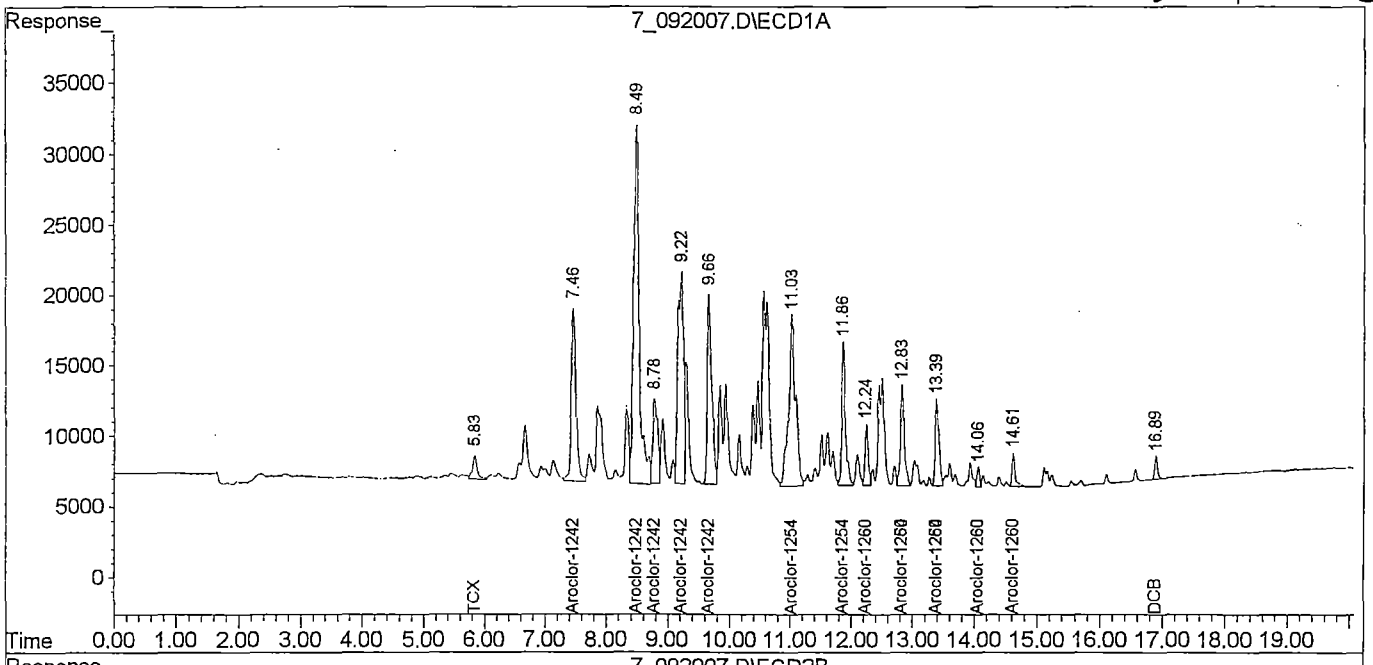
Chromatographic Report

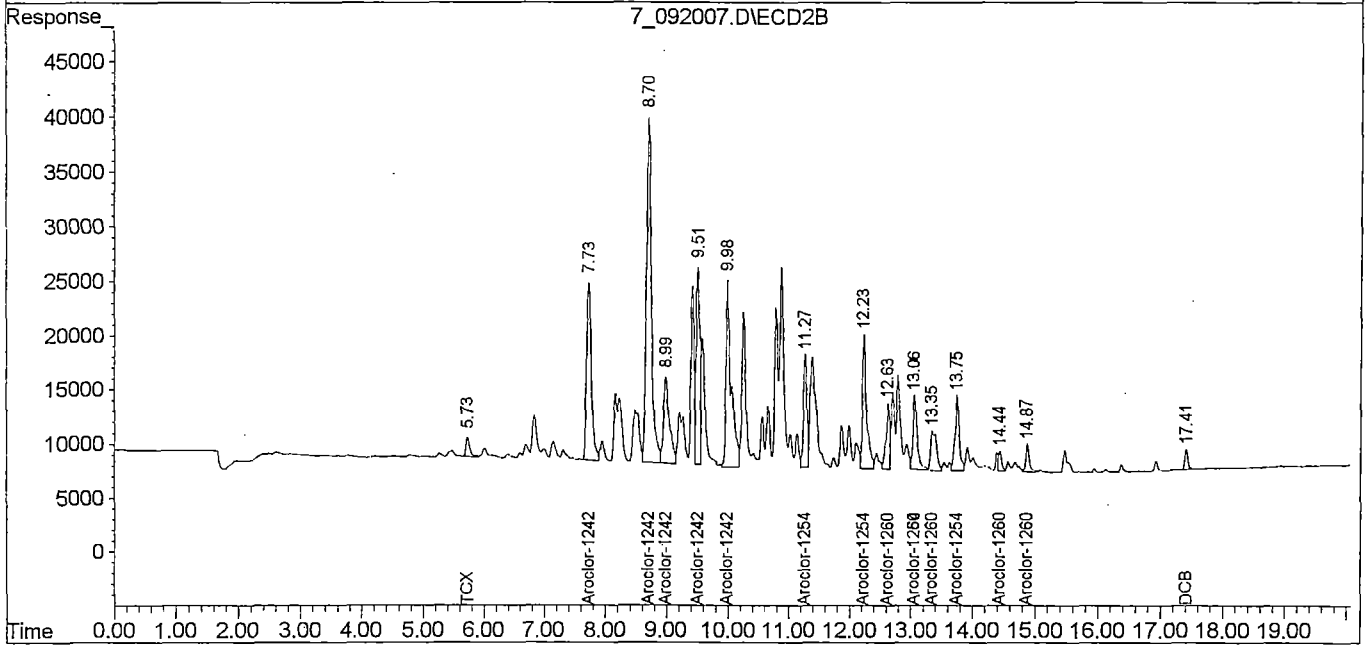
Signal #1 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092007.D\ECD1A.CH Vial: 99
Signal #2 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092007.D\ECD2B.CH
Acq On : 20 Sep 2001 9:52 Operator: SA
Sample : 47294.01DL *E02R5DL * Inst : HP_07
Misc : *EPA*30g/5.0ML*59 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 10:53 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

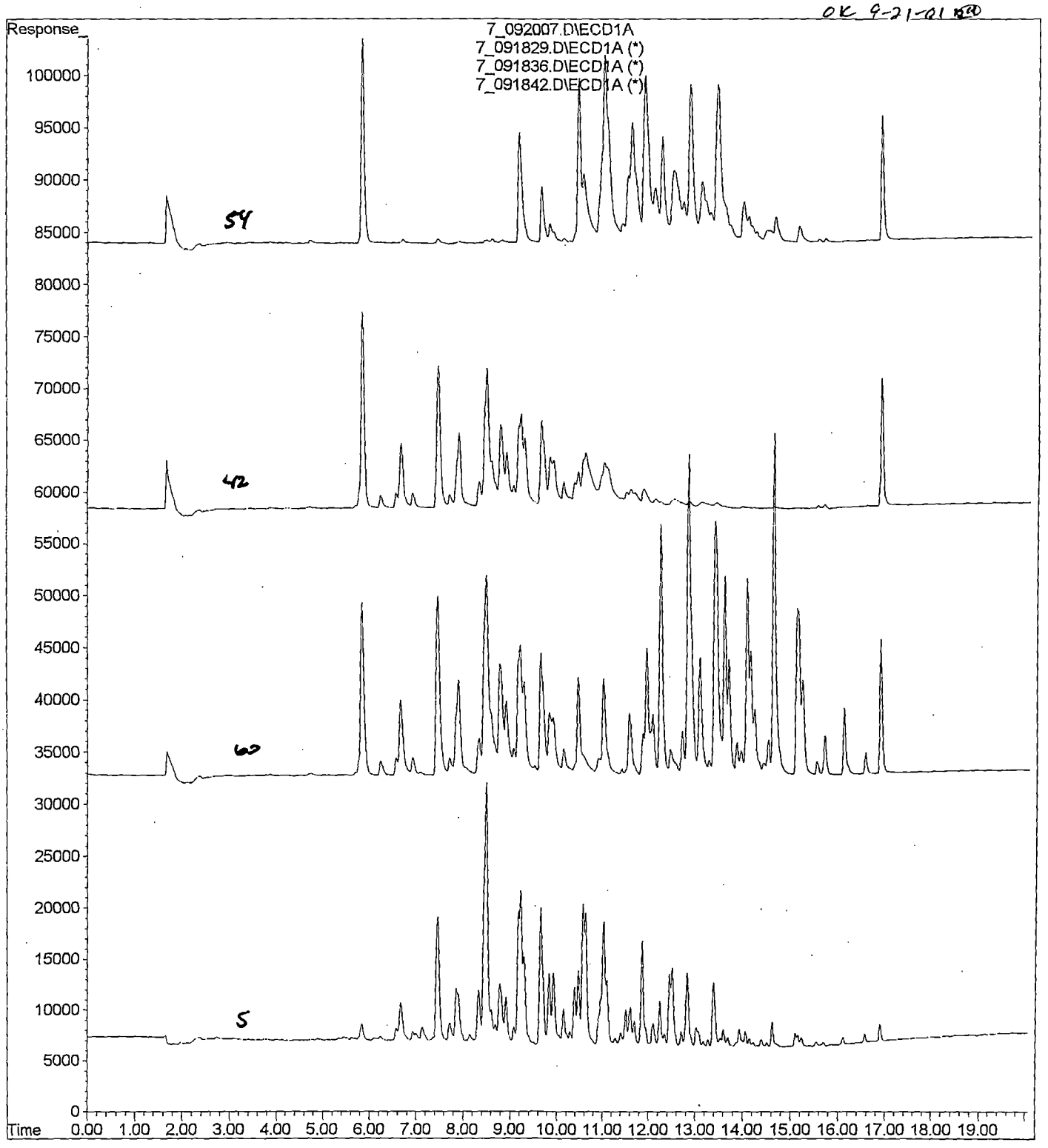
OK 9-21-01





File : F:\HPCHEM\HP\7\DATA\09_20_01\7_092007.D
Operator : SA
Acquired : 20 Sep 2001 9:52 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47294.01DL *E02R5DL *
Misc Info : *EPA*30.9G/5.0ML*59
Vial Number: 99

OK 9-21-01



Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092007.D\ECD1A.CH Vial: 99
Signal #2 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092007.D\ECD2B.CH
Acq On : 20 Sep 2001 9:52 Operator: SA
Sample : 47294.01DL *E02R5DL * Inst : HP_07
Misc : *EPA*30.9G/5.0ML*59 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 10:53 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

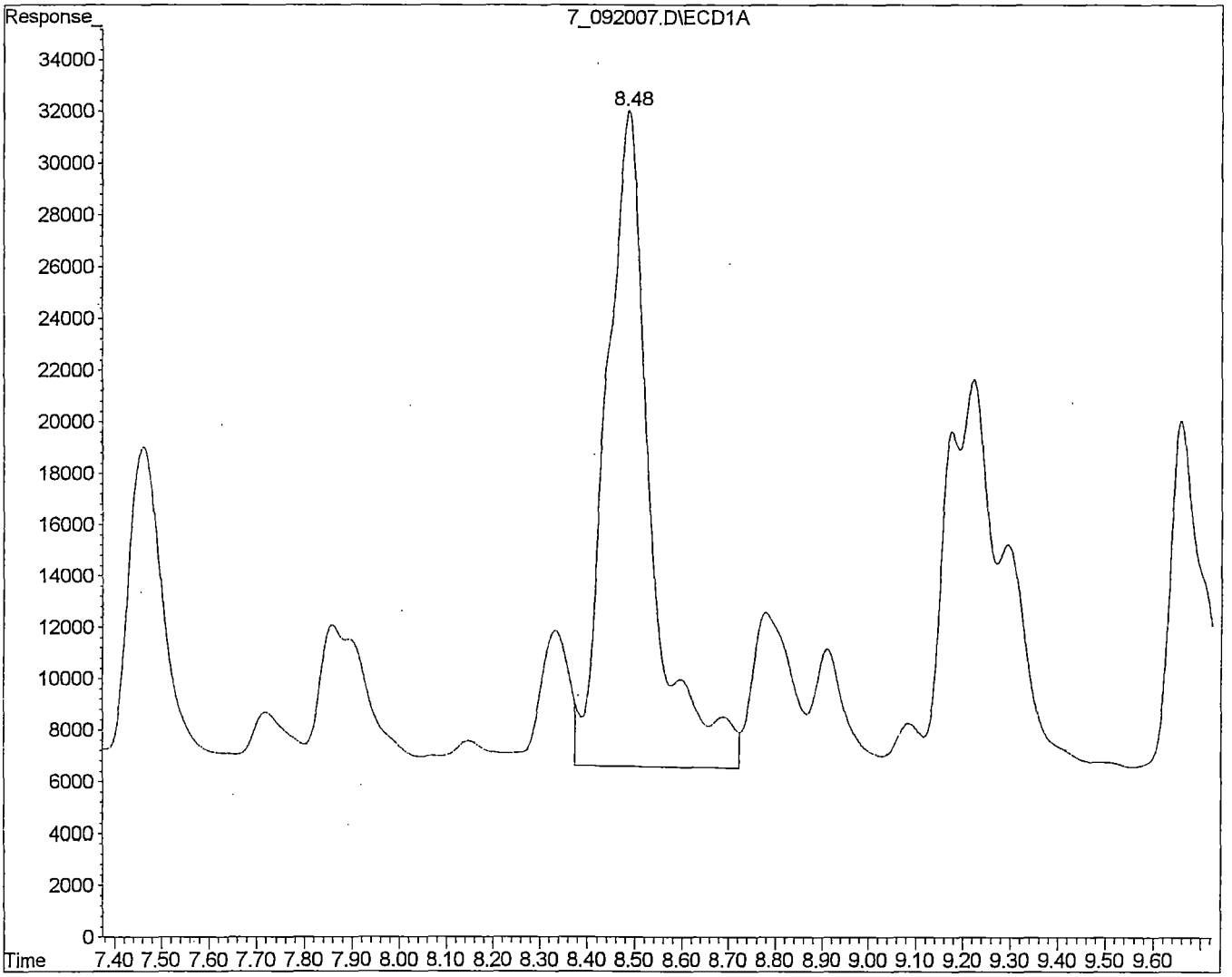
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.83	5.73	92716	78891	16.9	10.4	#
	Spiked Amount 15.787			Recovery	=	107.05%	65.88%	
22)	S DCB	16.89	17.41	50629	61483	18.1	16.6	
	Spiked Amount 15.787			Recovery	=	114.65%	105.15%	
	Target Compounds:							
7)	L4 Aroclor-1242	7.46	7.73	661502	921265	2830.9	2787.5	
8)	L4 Aroclor-1242 {2}	8.48	8.70	1646008	1824024	5468.8m	5536.8	
9)	L4 Aroclor-1242 {3}	8.78	8.99	332817	533777	2211.3	2107.1	
10)	L4 Aroclor-1242 {4}	9.22	9.51	928239	755517	5105.1	4889.6	
11)	L4 Aroclor-1242 {5}	9.66	9.98	673480	1003608	3988.8	3923.9m	
	Sum Aroclor-1242			4242047	5038191	19604.8	19244.9	
	Average Aroclor-1242					3920.964	3848.980	
13)	L6 Aroclor-1254 {2}	11.03	11.27	949698	401676	1554.7m	1144.6	#
14)	L6 Aroclor-1254 {3}	11.86	12.23f	420645	580999	1065.8	888.9	
15)	L6 Aroclor-1254 {4}	12.83	13.06	325046	330986	1047.1	975.1	
16)	L6 Aroclor-1254 {5}	13.39	13.75f	254089	322871	595.9	525.9	
	Sum Aroclor-1254			1949478	1636532	4263.5	3534.5	
	Average Aroclor-1254					1065.882	883.623	
17)	L7 Aroclor-1260	12.24	12.63	158454	259197	472.8	483.6	
18)	L7 Aroclor-1260 {2}	12.83	13.06	325046	330986	582.4	621.1	
19)	L7 Aroclor-1260 {3}	13.39	13.35f	254089	247086	570.0	518.0m	
20)	L7 Aroclor-1260 {4}	14.06	14.44	43840	60071	212.9	187.1	
21)	L7 Aroclor-1260 {5}	14.62	14.87	83305	97459	179.3	173.5	
	Sum Aroclor-1260			864734	994799	15924.0	15655.5	
	Average Aroclor-1260					403.483	396.679	

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_20_01\7_092007.D
Date Acquired: 20 Sep 2001 9:52
Inst: HP_07 Operator ID: SA
Name: 47294.01DL *E02R5DL *
Misc: *EPA*30.9G/5.0ML*59
Method: F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 10:53 2001 Quant Results File: XPCBI18.RES



09-20-4

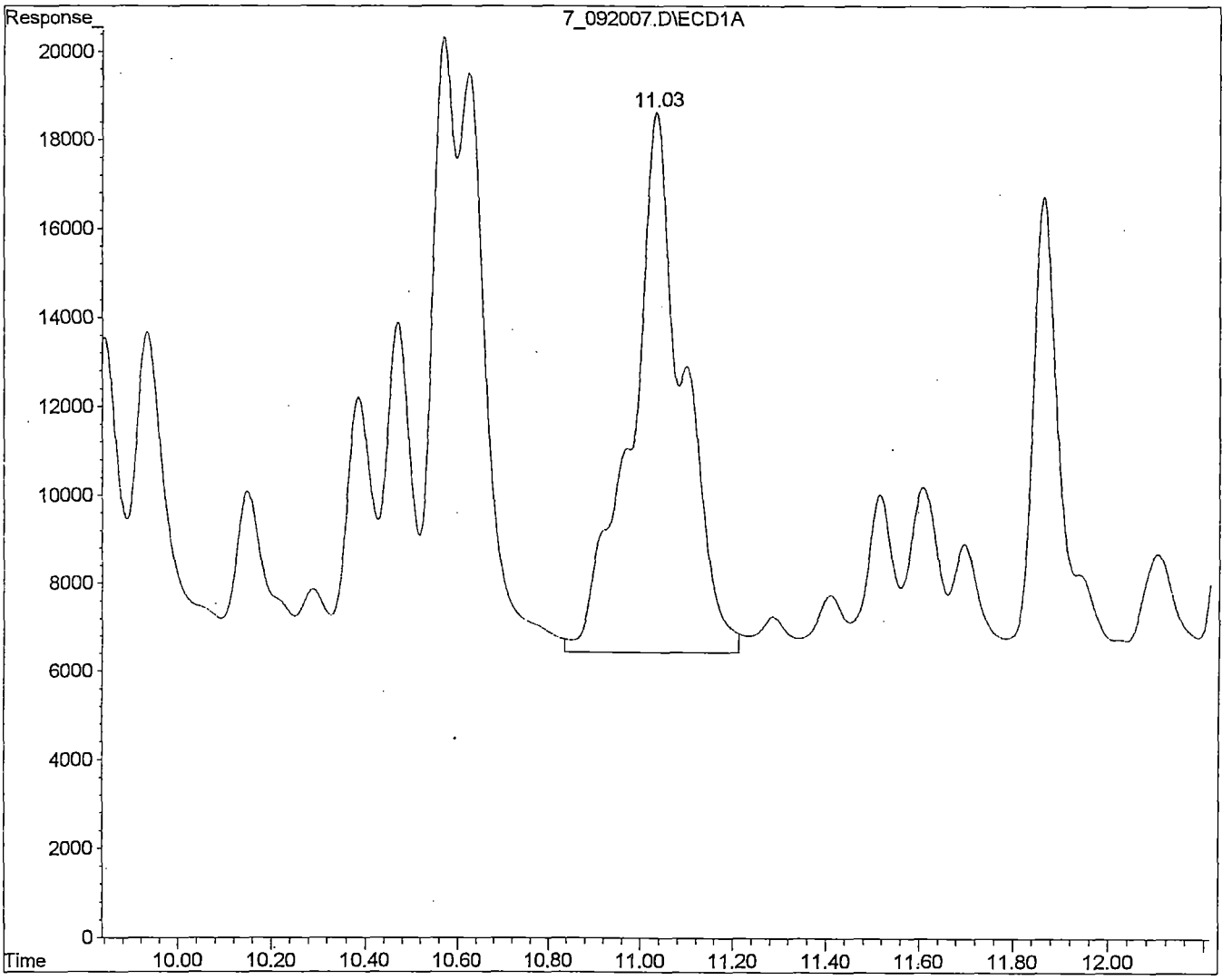
Aroclor-1242 {2} 8.48min area: 1646008 m

Integration Time Range: 8.37 - 8.72 OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_20_01\7_092007.D
Report generated: Thu Sep 20 10:56:17 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_20_01\7_092007.D
Date Acquired: 20 Sep 2001 9:52
Inst: HP_07 Operator ID: SA
Name: 47294.01DL *E02R5DL *
Misc: *EPA*30.9G/5.0ML*59
Method: F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 10:53 2001 Quant Results File: XPCBI18.RES



AS 9.20.01

Aroclor-1254 {2} 11.03min area: 949698 m

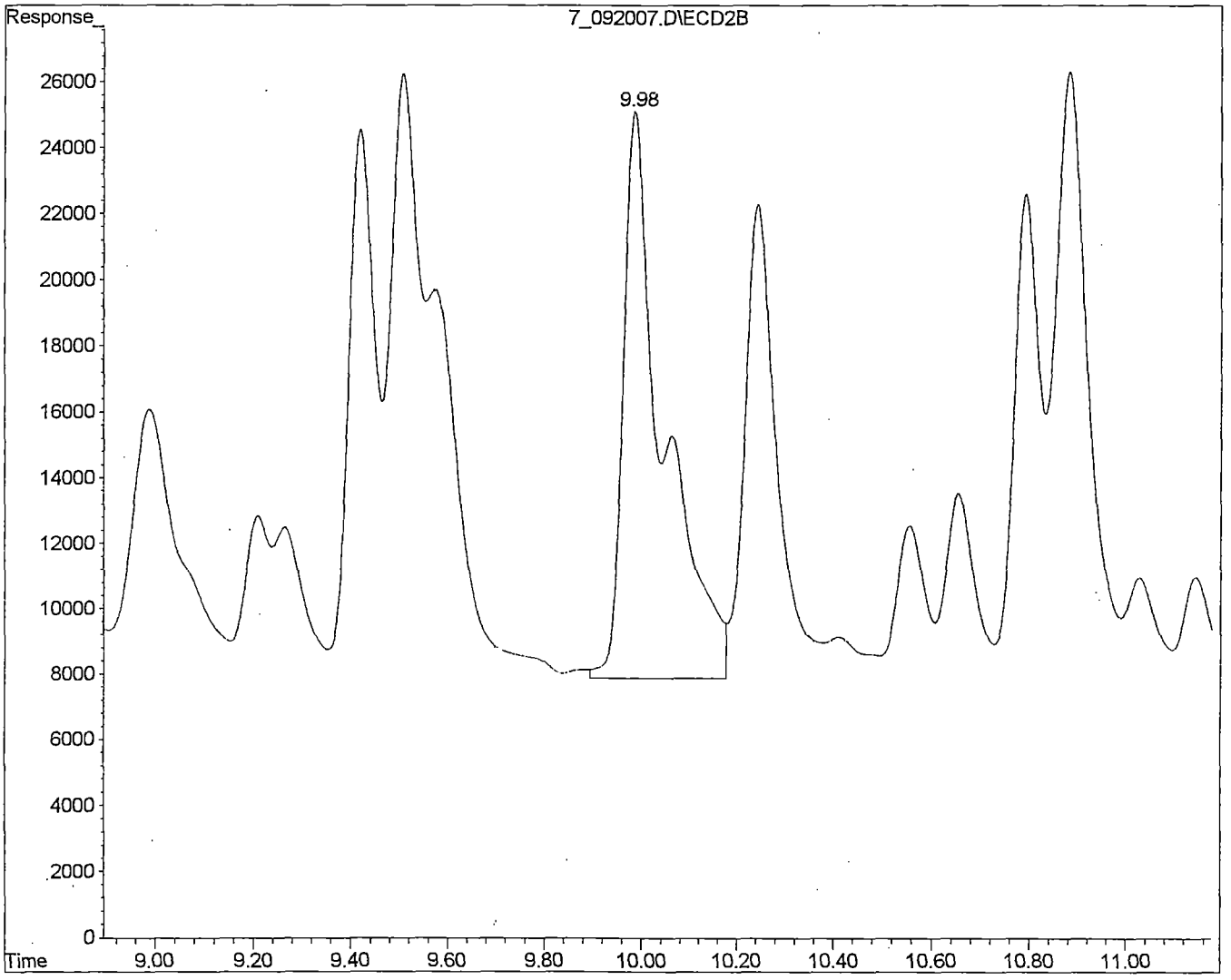
CK 9.21.01

Integration Time Range: 10.83 - 11.21

F:\HPCHEM\HP\7\DATA\09_20_01\7_092007.D
Report generated: Thu Sep 20 10:56:18 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_20_01\7_092007.D
Date Acquired: 20 Sep 2001 9:52
Inst: HP_07 Operator ID: SA
Name: 47294.01DL *E02R5DL *
Misc: *EPA*30.9G/5.0ML*59
Method: F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 10:53 2001 Quant Results File: XPCBI18.RES



09.20.01

Aroclor-1242 {5} #2 9.98min area: 1003608 m

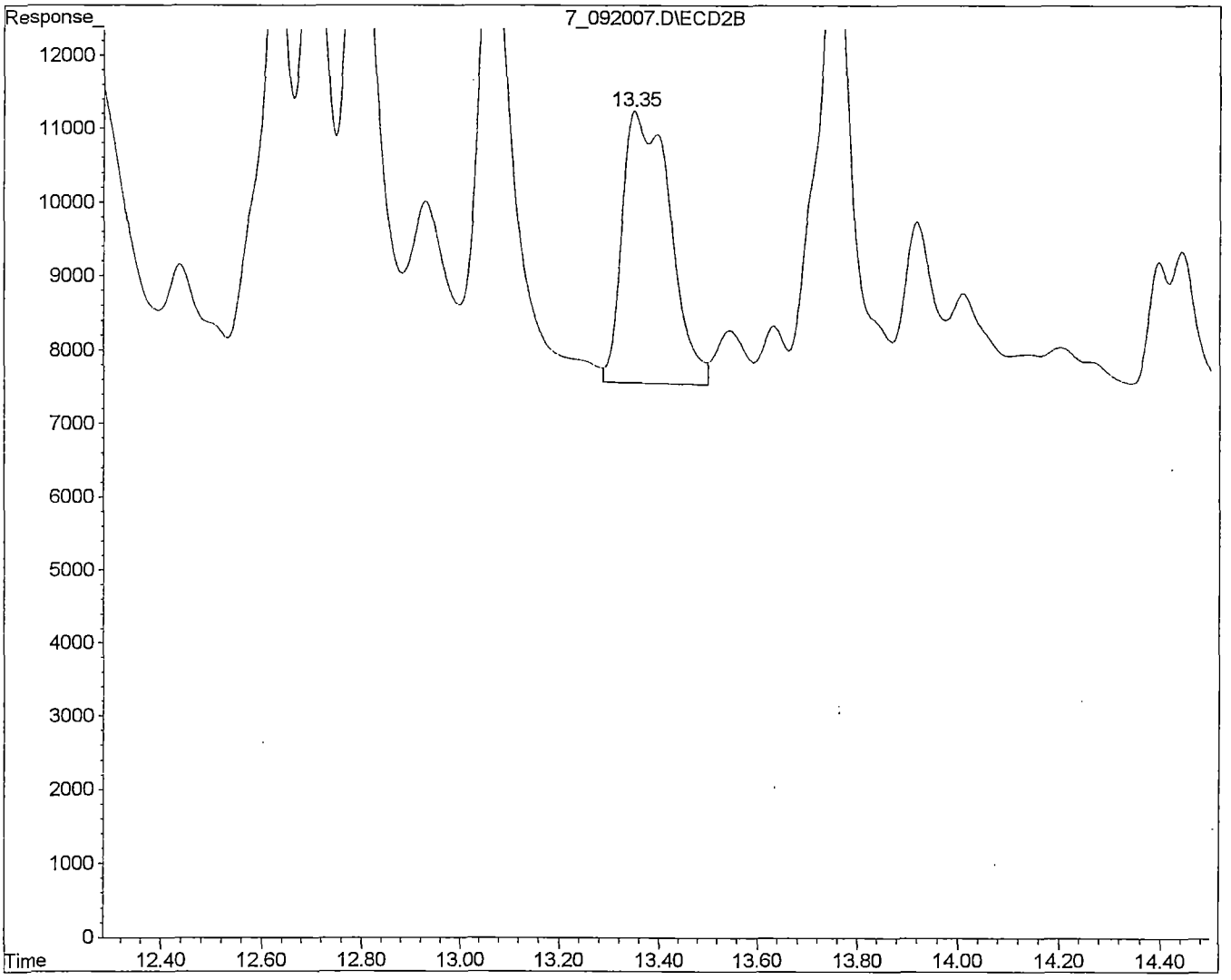
Integration Time Range: 9.89 - 10.18

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_20_01\7_092007.D
Report generated: Thu Sep 20 10:56:19 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_20_01\7_092007.D
Date Acquired: 20 Sep 2001 9:52
Inst: HP_07 Operator ID: SA
Name: 47294.01DL *E02R5DL *
Misc: *EPA*30.9G/5.0ML*59
Method: F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 10:53 2001 Quant Results File: XPCBI18.RES



09-20-01

Aroclor-1260 {3} #2 13.35min area: 247086 m

Integration Time Range: 13.28 - 13.50

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_20_01\7_092007.D
Report generated: Thu Sep 20 10:56:20 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02R6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) SOIL Lab Sample ID: 47294.02

Sample wt/vol: 31.7 (g/mL) G Lab File ID:_____

% Moisture: 58 decanted: (Y/N) __ Date Received: 08/16/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/16/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/19/01

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	74	U
11104-28-2	Aroclor-1221	74	U
11141-16-5	Aroclor-1232	74	U
53469-21-9	Aroclor-1242	74	U
12672-29-6	Aroclor-1248	74	U
11097-69-1	Aroclor-1254	74	U
11096-82-5	Aroclor-1260	18	J
Surrogate amount spiked		15.02	

FORM I PCB

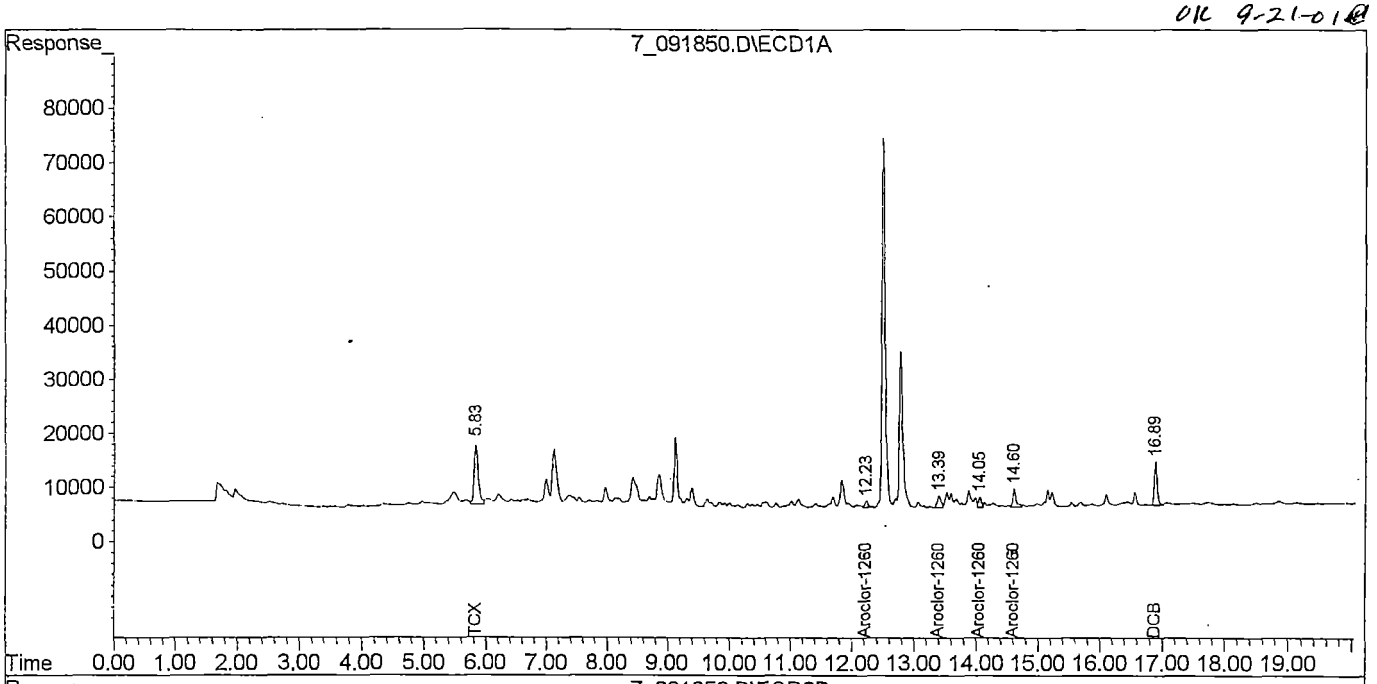
Chromatographic Report

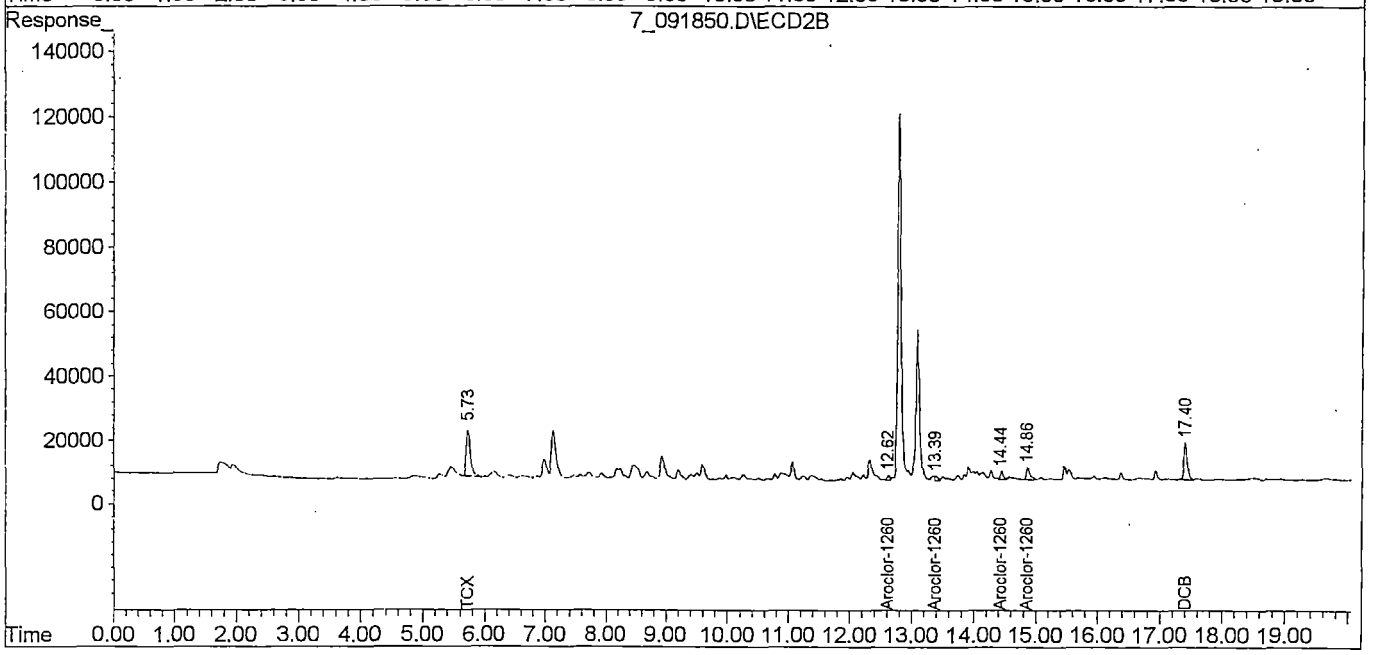
Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091850.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091850.D\ECD2B.CH
Acq On : 19 Sep 2001 3:19 Operator: SA
Sample : 47294.02 *E02R6 * Inst : HP_07
Misc : *EPA*31.7G/5.0ML*58 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:34 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

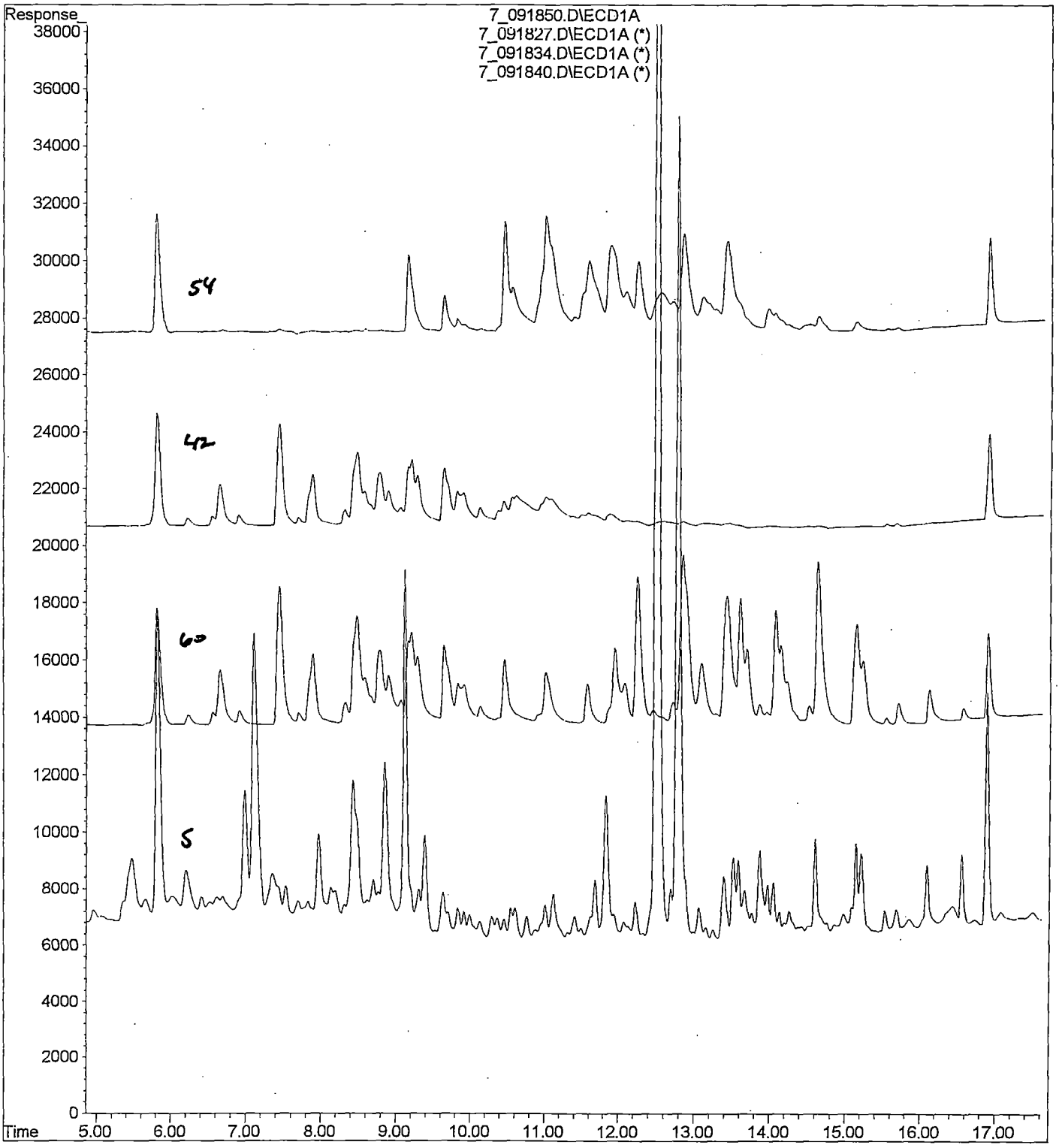
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-21-01





File : F:\HPCHEM\HP\7\DATA\09_19_01\7_091850.D
Operator : SA
Acquired : 19 Sep 2001 3:19 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47294.02 *E02R6 *
Misc Info : *EPA*31.7G/5.0ML*58
Vial Number: 25



Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091850.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091850.D\ECD2B.CH
Acq On : 19 Sep 2001 3:19 Operator: SA
Sample : 47294.02 *E02R6 * Inst : HP_07
Misc : *EPA*31.7G/5.0ML*58 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:34 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

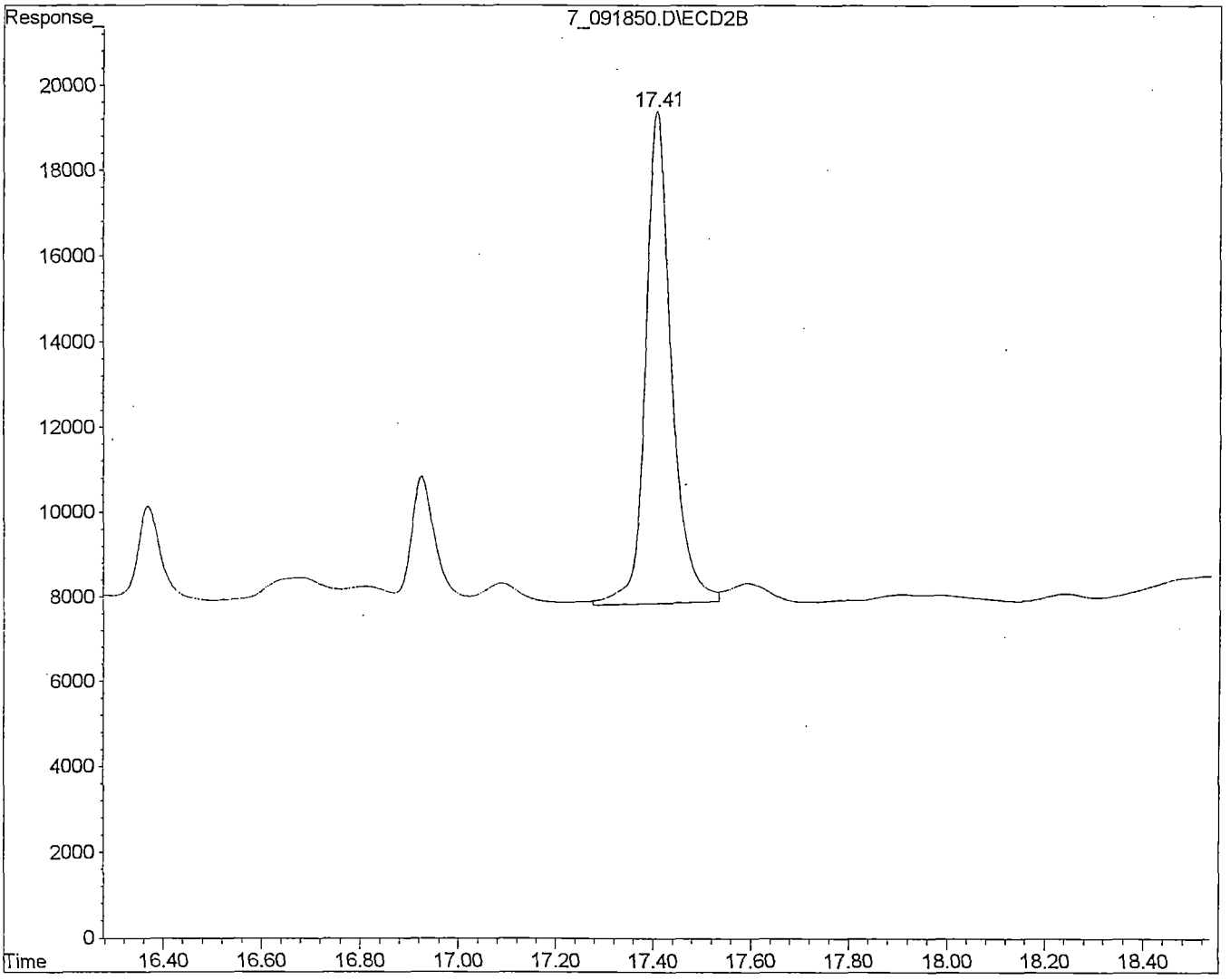
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.83	5.73	519118	679908	9.054	7.758	
	Spiked Amount 15.022			Recovery	=	60.27%	51.65%	
22)	S DCB	16.89	17.40	255689	429044	8.274	10.9m	#
	Spiked Amount 15.022			Recovery	=	✓55.08%	✓72.56%	
	Target Compounds:							
17)	L7 Aroclor-1260	12.22	12.62	47411	53922	13.5	9.572	#
19)	L7 Aroclor-1260 {3}	13.39	13.38	93912	47655	20.0	9.507	#
20)	L7 Aroclor-1260 {4}	14.05	14.44	64058	92134	29.6	27.3	
21)	L7 Aroclor-1260 {5}	14.60	14.86	129567	157062	26.5	26.6	
	Sum Aroclor-1260			334948	350773	67.3	54.8	
	Average Aroclor-1260					22.410	18.251	

CDS-1909

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091850.D
Date Acquired: 19 Sep 2001 3:19
Inst: HP_07 Operator ID: SA
Name: 47294.02 *E02R6 *
Misc: *EPA*31.7G/5.0ML*58
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:34 2001 Quant Results File: XPCBI18.RES



09.19.01

DCB #2 17.40min area: 429044 m

Integration Time Range: 17.28 - 17.53

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_19_01\7_091850.D
Report generated: Wed Sep 19 10:52:16 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02R7

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) SOIL Lab Sample ID: 47294.03

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

% Moisture: 61 decanted: (Y/N) __ Date Received: 08/16/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/16/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/19/01

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	82	U
11104-28-2	Aroclor-1221	82	U
11141-16-5	Aroclor-1232	82	U
53469-21-9	Aroclor-1242	82	U
12672-29-6	Aroclor-1248	82	U
11097-69-1	Aroclor-1254	82	U
11096-82-5	Aroclor-1260	82	U
	Surrogate amount spiked	16.60	

FORM I PCB

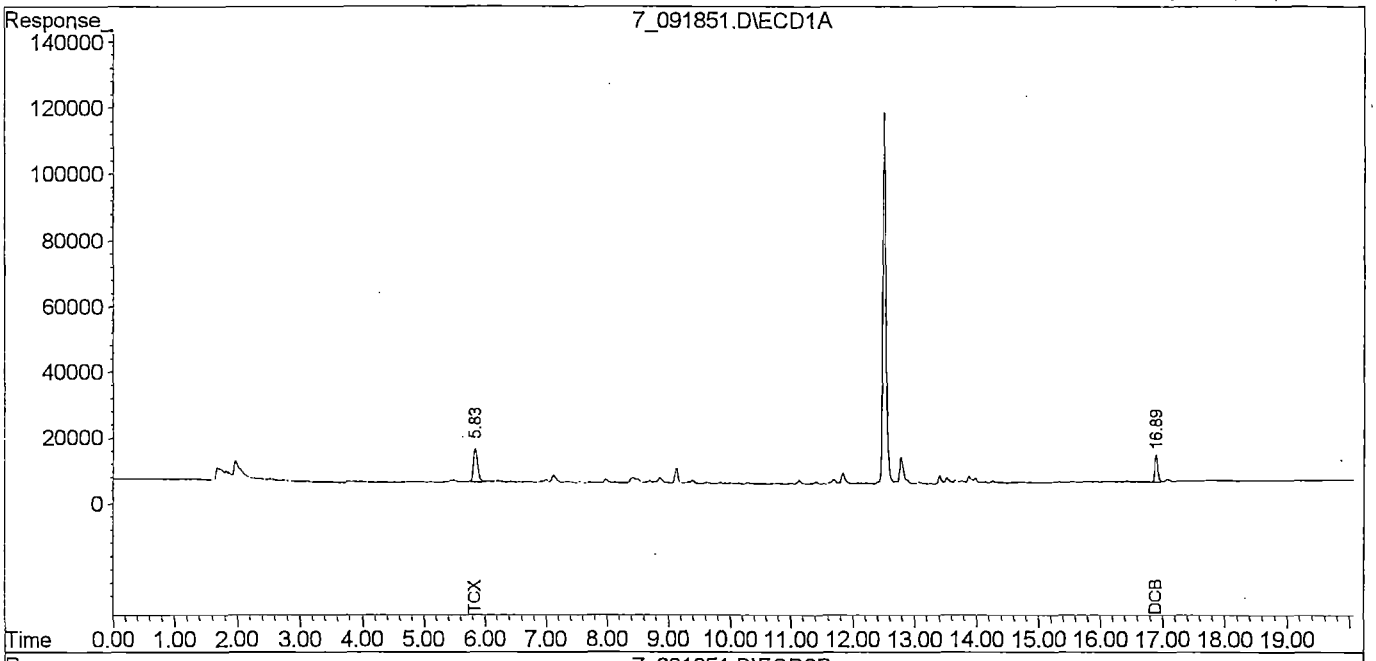
Chromatographic Report

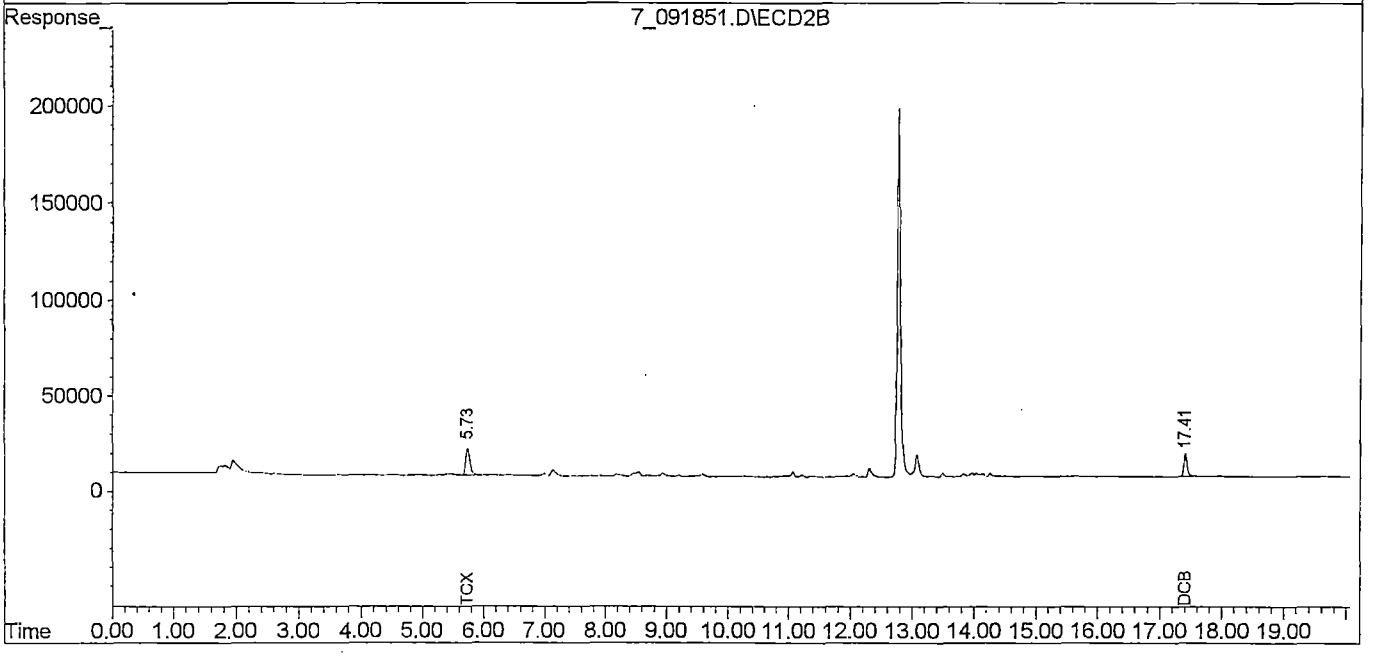
Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091851.D\ECD1A.CH Vial: 26
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091851.D\ECD2B.CH
Acq On : 19 Sep 2001 3:43 Operator: SA
Sample : 47294.03 *E02R7 * Inst : HP_07
Misc : *EPA*30.9G/5.0ML*61 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:37 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

UK 9-21-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091851.D\ECD1A.CH Vial: 26
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091851.D\ECD2B.CH
Acq On : 19 Sep 2001 3:43 Operator: SA
Sample : 47294.03 *E02R7 * Inst : HP_07
Misc : *EPA*30.9G/5.0ML*61 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:37 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	495337	669774	9.545	8.444
	Spiked Amount 16.596			Recovery	=	57.51%	50.88%
22)	S DCB	16.89	17.40	256427	428814	9.167	12.0m #
	Spiked Amount 16.596			Recovery	=	55.24%	72.31%

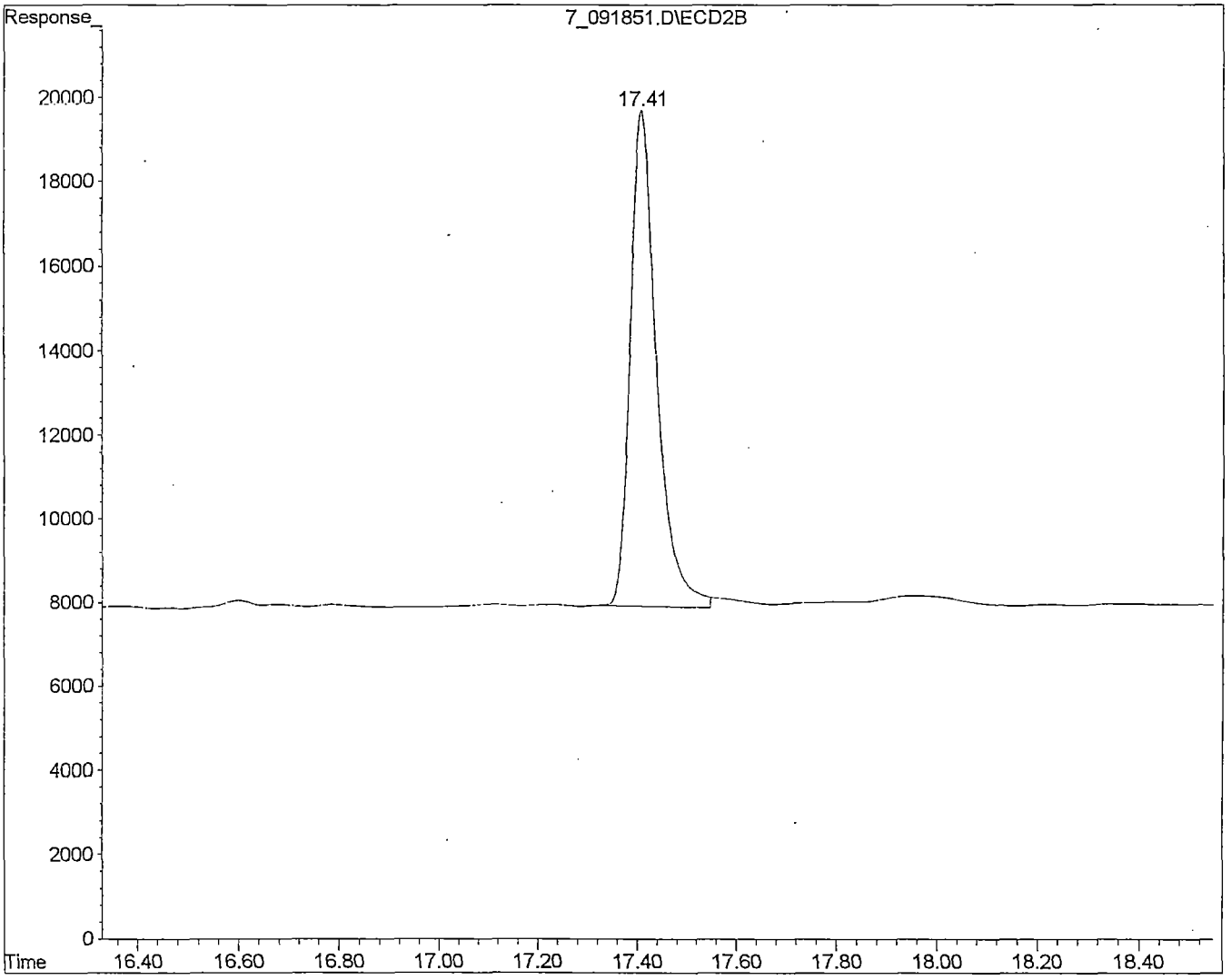
09.15.01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091851.D
Date Acquired: 19 Sep 2001 3:43
Inst: HP_07 Operator ID: SA
Name: 47294.03 *E02R7 *
Misc: *EPA*30.9G/5.0ML*61
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:37 2001 Quant Results File: XPCBI18.RES



CD 9-19-01

DCB #2 17.41min area: 428814 m

Integration Time Range: 17.33 - 17.55

OK 9-21-01 CR

F:\HPCHEM\HP\7\DATA\09_19_01\7_091851.D
Report generated: Wed Sep 19 10:52:18 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02R8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) SOIL Lab Sample ID: 47294.04

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

% Moisture: 57 decanted: (Y/N) __ Date Received: 08/16/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/16/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/19/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	76	U
11104-28-2	Aroclor-1221	76	U
11141-16-5	Aroclor-1232	76	U
53469-21-9	Aroclor-1242	76	U
12672-29-6	Aroclor-1248	76	U
11097-69-1	Aroclor-1254	76	U
11096-82-5	Aroclor-1260	76	U
	Surrogate amount spiked	15.46	

FORM I PCB

34A

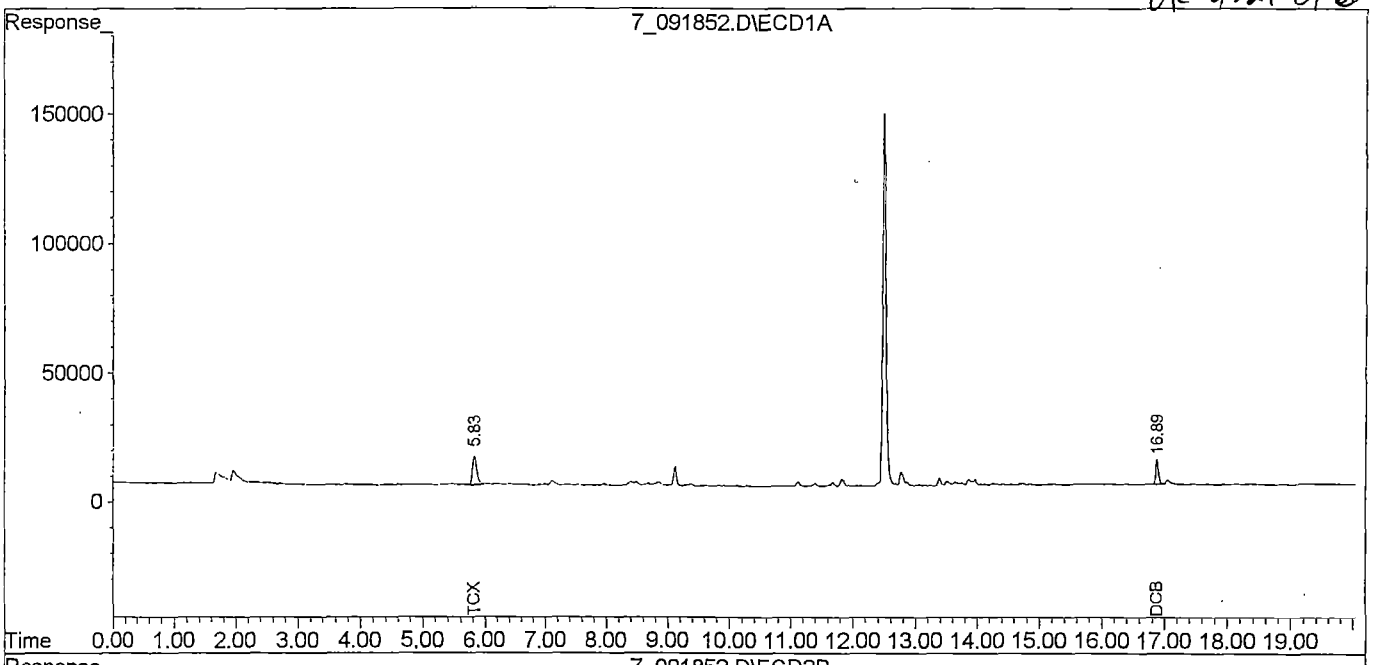
Chromatographic Report

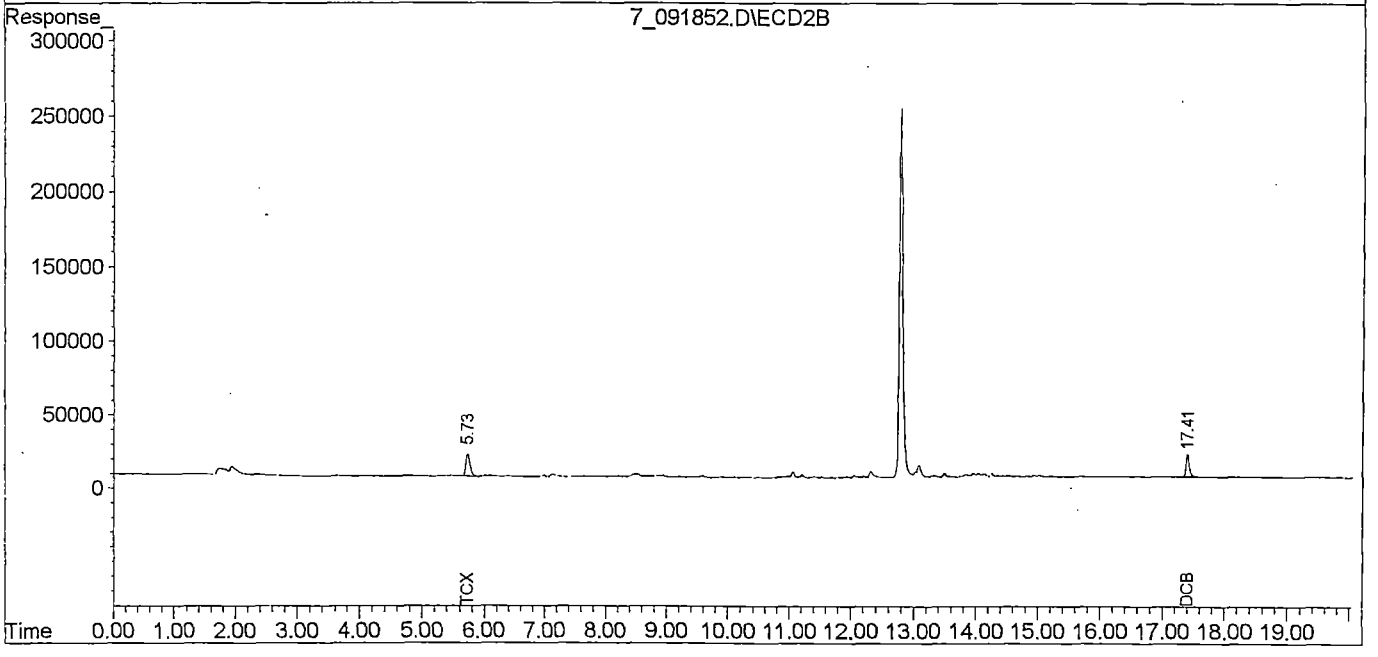
Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091852.D\ECD1A.CH Vial: 27
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091852.D\ECD2B.CH
Acq On : 19 Sep 2001 4:07 Operator: SA
Sample : 47294.04 *E02R8 * Inst : HP_07
Misc : *EPA*30.1G/5.0ML*5 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:37 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-21-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091852.D\ECD1A.CH Vial: 27
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091852.D\ECD2B.CH
Acq On : 19 Sep 2001 4:07 Operator: SA
Sample : 47294.04 *E02R8 * Inst : HP_07
Misc : *EPA*30.1G/5.0ML*57 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:37 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	533657	731293	9.574	8.584
	Spiked Amount 15.452			Recovery	=	61.96%	55.55%
22)	S DCB	16.89	17.40	295183	577370	9.825	15.1m #
	Spiked Amount 15.452			Recovery	=	63.58%	97.72%

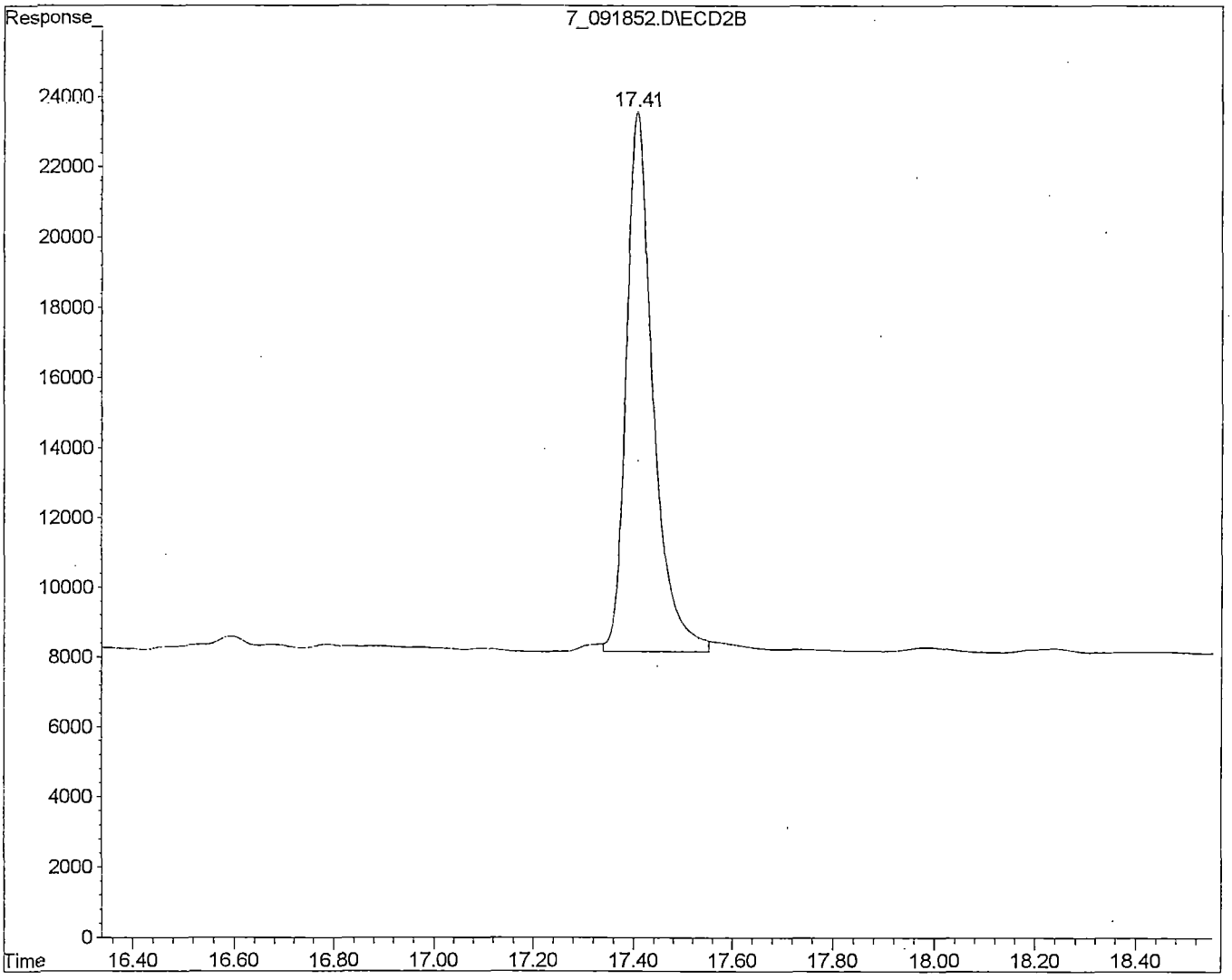
cd 9.19.01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091852.D
Date Acquired: 19 Sep 2001 4:07
Inst: HP_07 Operator ID: SA
Name: 47294.04 *E02R8 *
Misc: *EPA*30.1G/5.0ML*57
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:37 2001 Quant Results File: XPCBI18.RES



CO 9.19.01

DCB #2 17.41min area: 577370 m

Integration Time Range: 17.34 - 17.55

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_19_01\7_091852.D
Report generated: Wed Sep 19 10:52:20 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02R9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) SOIL Lab Sample ID: 47294.05

Sample wt/vol: 31.0 (g/mL) G Lab File ID:_____

% Moisture: 15 decanted: (Y/N) __ Date Received: 08/16/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/16/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/19/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	160	
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	36	J
11096-82-5	Aroclor-1260	8.9	JP
Surrogate amount spiked		7.59	

FORM I PCB

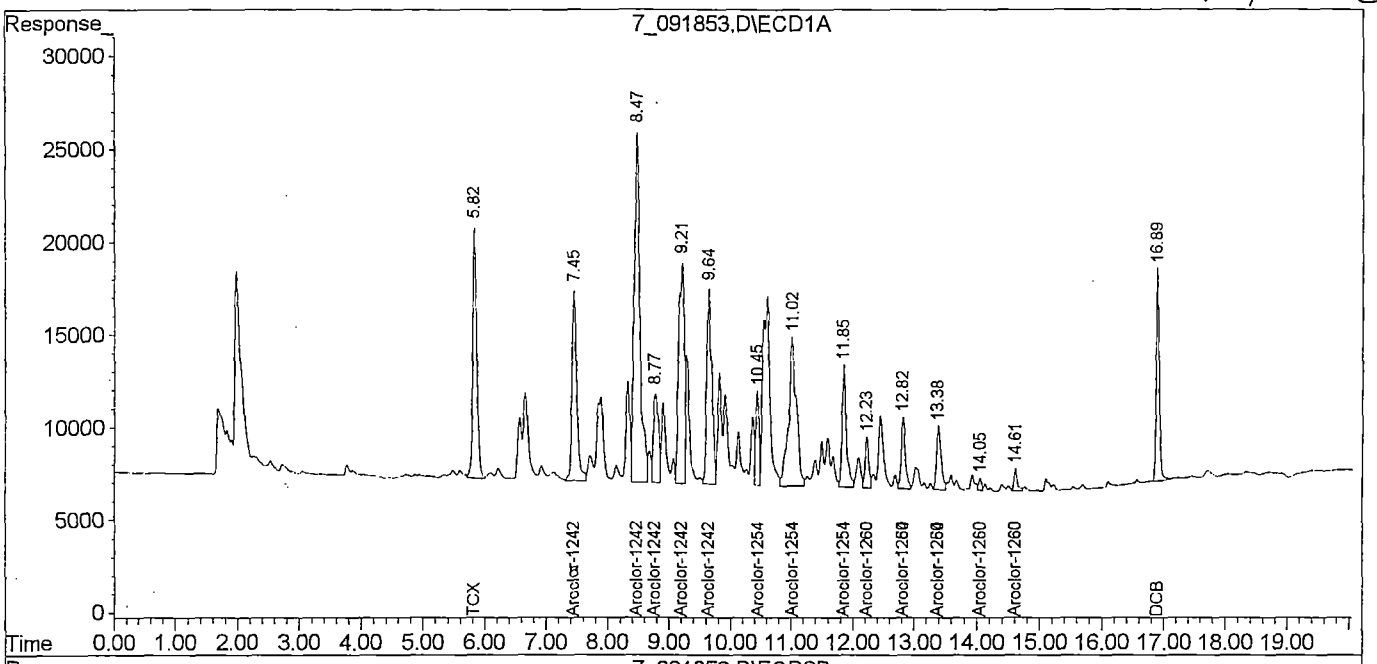
Chromatographic Report

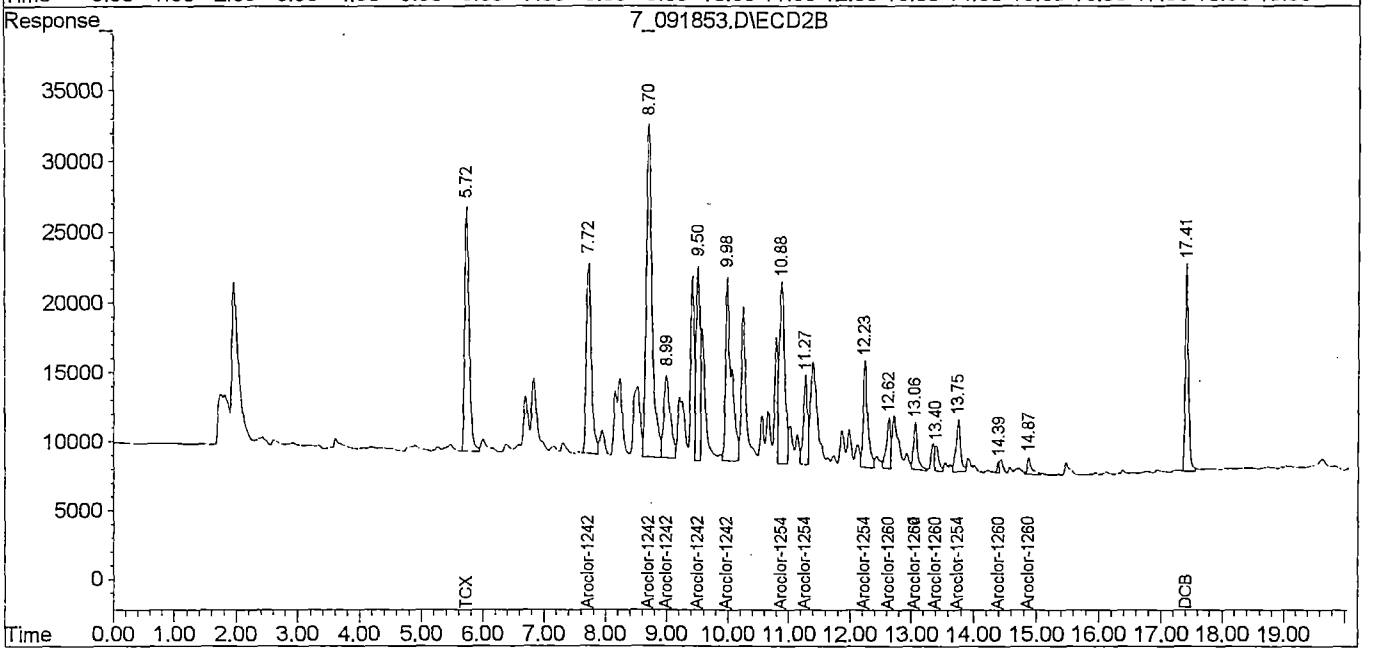
Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091853.D\ECD1A.CH Vial: 28
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091853.D\ECD2B.CH
Acq On : 19 Sep 2001 4:31 Operator: SA
Sample : 47294.05 *E02R9 * Inst : HP_07
Misc : *EPA*31G/5.0ML*15 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:40 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

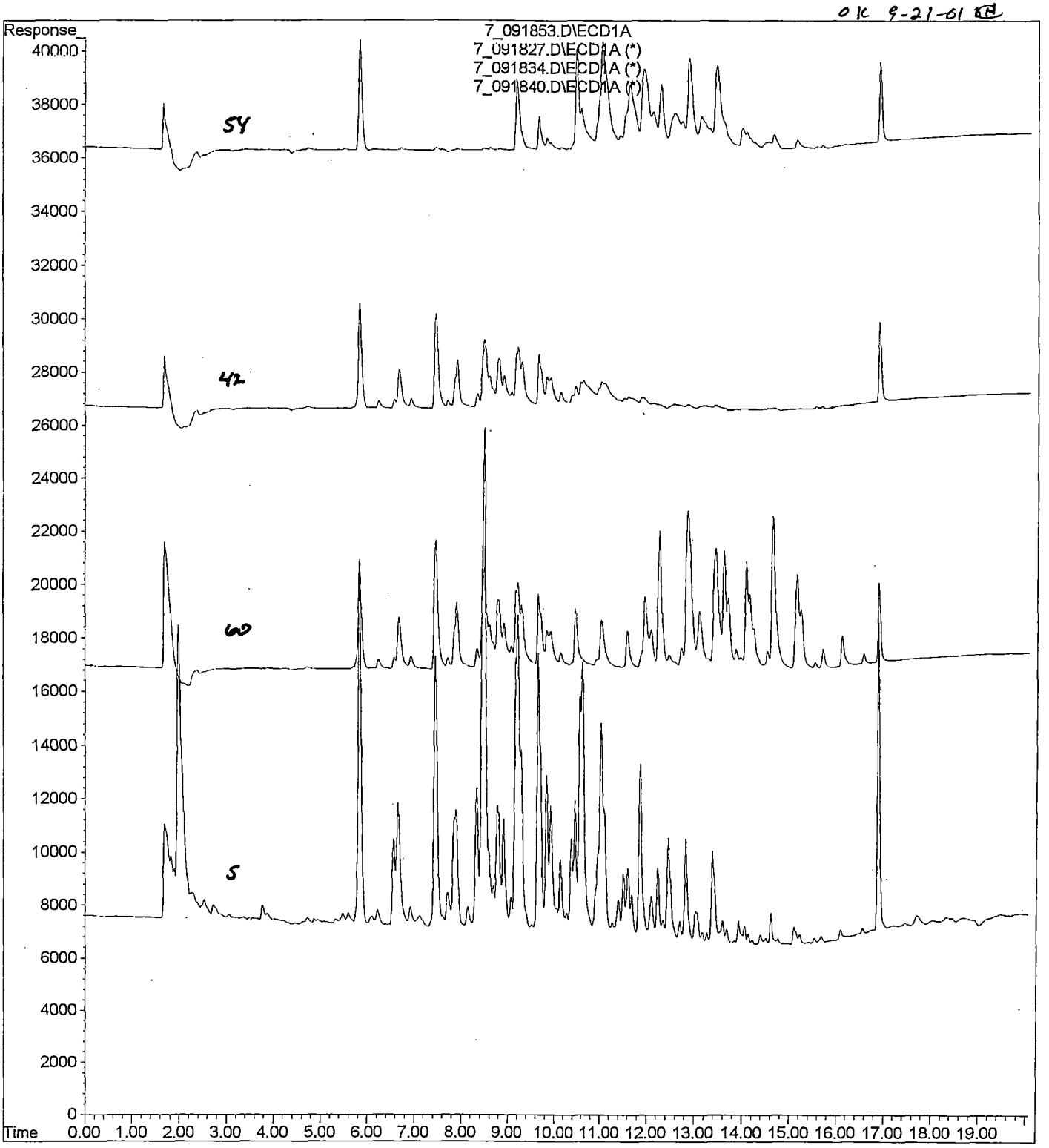
•K 9-21-01





File : F:\HPCHEM\HP\7\DATA\09_19_01\7_091853.D
Operator : SA
Acquired : 19 Sep 2001 4:31 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47294.05 *E02R9 *
Misc Info : *EPA*31G/5.0ML*15
Vial Number: 28

OK 9-21-01



Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091853.D\ECD1A.CH Vial: 28
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091853.D\ECD2B.CH
Acq On : 19 Sep 2001 4:31 Operator: SA
Sample : 47294.05 *E02R9 * Inst : HP_07
Misc : *EPA*31G/5.0ML*15 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:40 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

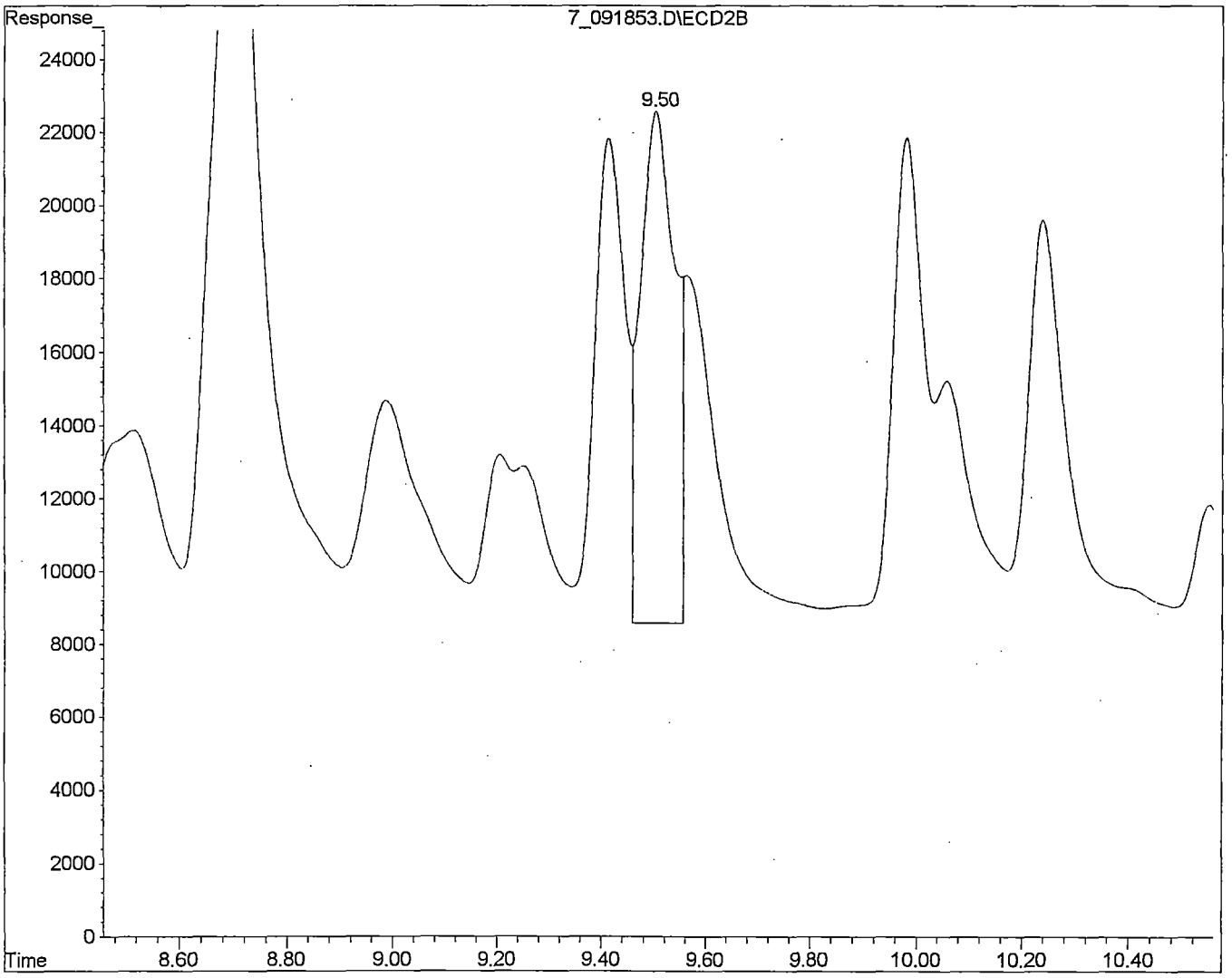
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.72	624226	866612	5.501	4.997	
	Spiked Amount 7.590			Recovery	=	72.48%	65.84%	
22)	S DCB	16.89	17.41	384237	545266	6.282	6.994m	
	Spiked Amount 7.590			Recovery	=	82.77%	92.15%	
	Target Compounds:							
7)	L4 Aroclor-1242	7.44	7.72	567102	804402	116.7	117.0	
8)	L4 Aroclor-1242 {2}	8.47	8.70	1251637	1557983	199.9	227.4	
9)	L4 Aroclor-1242 {3}	8.77	8.99	278107	447220	88.8	84.9	
10)	L4 Aroclor-1242 {4}	9.21	9.50	762614	653844	201.7	203.5m	
11)	L4 Aroclor-1242 {5}	9.64	9.98	589594	853487	167.9	160.4m	
	Sum Aroclor-1242			3449055	4316936	775.0	793.2	
	Average Aroclor-1242					155.003	158.635	
12)	L6 Aroclor-1254	10.46	10.88	199882	786299	41.7	91.8	#
13)	L6 Aroclor-1254 {2}	11.02	11.27	710701	289114	55.9	39.6	#
14)	L6 Aroclor-1254 {3}	11.85	12.23f	304873	393902	37.1	29.0	
15)	L6 Aroclor-1254 {4}	12.82	13.06	179487	157829	27.8	22.4	
16)	L6 Aroclor-1254 {5}	13.38	13.75f	175793	189885	19.8	14.9	
	Sum Aroclor-1254			1570736	1817029	182.4	197.6	
	Average Aroclor-1254					36.480	39.516	
17)	L7 Aroclor-1260	12.23	12.62	112158	168353	16.1	15.1	
18)	L7 Aroclor-1260 {2}	12.82	13.06	179487	157829	15.5	14.2	
19)	L7 Aroclor-1260 {3}	13.38	13.40	175793	75693	19.0	7.630	#
20)	L7 Aroclor-1260 {4}	14.05	14.40f	22677	19959	5.295	2.990m	#
21)	L7 Aroclor-1260 {5}	14.61	14.87	42007	56211	4.346	4.812	
	Sum Aroclor-1260			532122	478045	22.8	17.0	
	Average Aroclor-1260					12.031	8.955	

CD 9-18-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091853.D
Date Acquired: 19 Sep 2001 4:31
Inst: HP_07 Operator ID: SA
Name: 47294.05 *E02R9 *
Misc: *EPA*31G/5.0ML*15
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:40 2001 Quant Results File: XPCBI18.RES



CA 9-19-01

Aroclor-1242 {4} #2 9.50min area: 653844 m

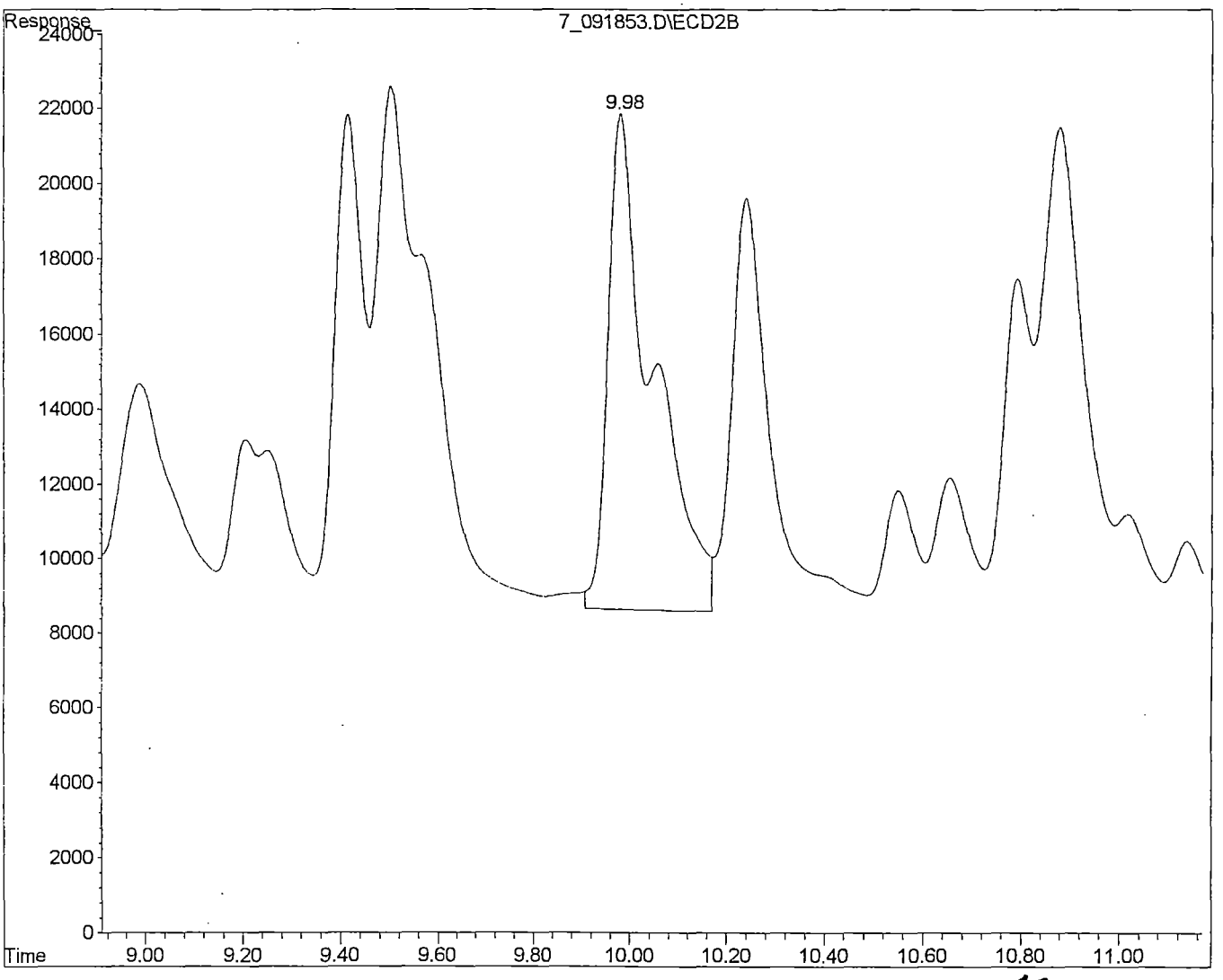
Integration Time Range: 9.46 - 9.56

OK 9-21-01 BH

F:\HPCHEM\HP\7\DATA\09_19_01\7_091853.D
Report generated: Wed Sep 19 10:52:21 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091853.D
Date Acquired: 19 Sep 2001 4:31
Inst: HP_07 Operator ID: SA
Name: 47294.05 *E02R9 *
Misc: *EPA*31G/5.0ML*15
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:40 2001 Quant Results File: XPCBI18.RES



Aroclor-1242 {5} #2 9.98min area: 853487 m

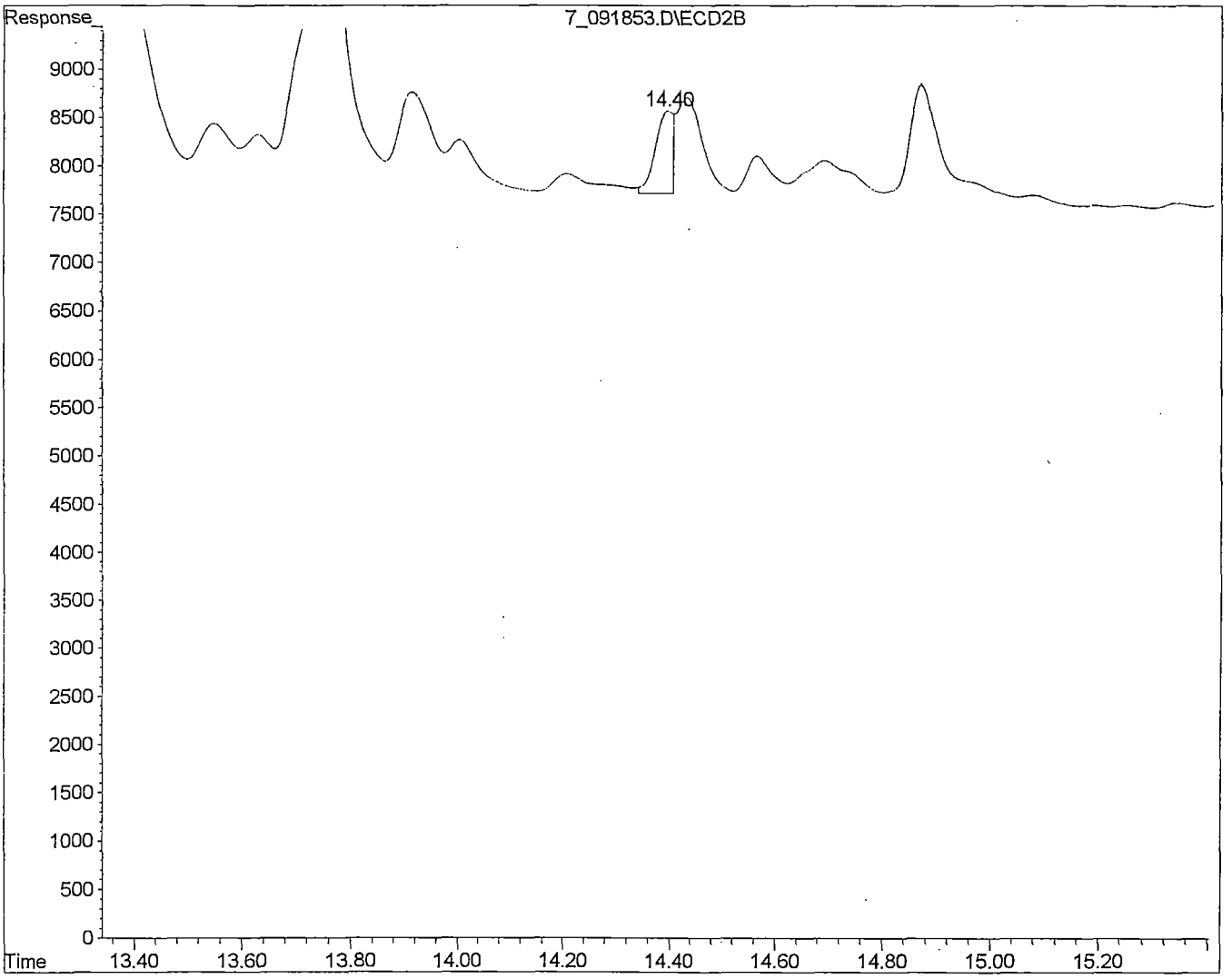
Integration Time Range: 9.91 - 10.17

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_19_01\7_091853.D
Report generated: Wed Sep 19 10:52:22 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091853.D
Date Acquired: 19 Sep 2001 4:31
Inst: HP_07 Operator ID: SA
Name: 47294.05 *E02R9 *
Misc: *EPA*31G/5.0ML*15
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:40 2001 Quant Results File: XPCBI18.RES



CA 9-19-01

Aroclor-1260 {4} #2 14.40min area: 19959 m

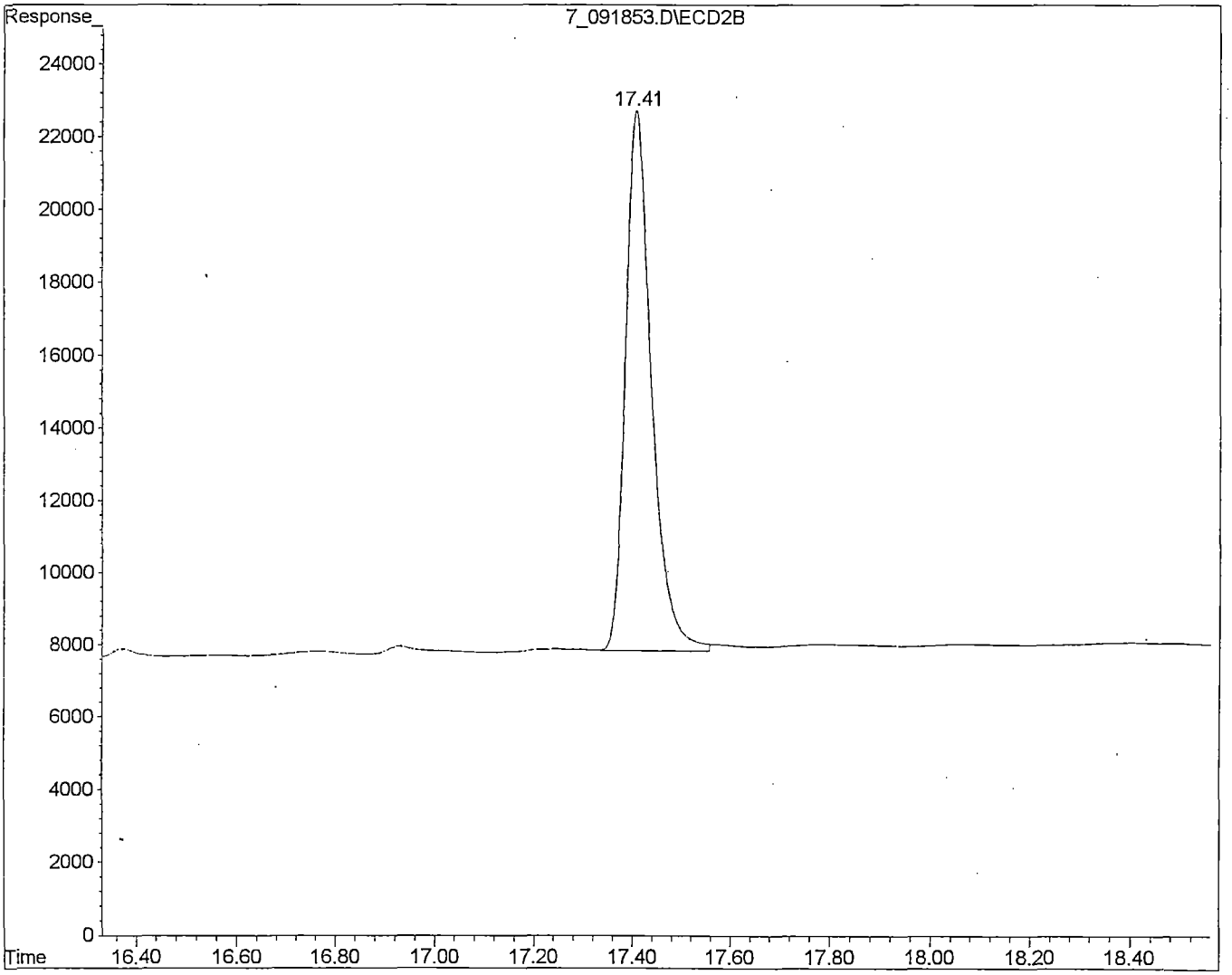
Integration Time Range: 14.34 - 14.41

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_19_01\7_091853.D
Report generated: Wed Sep 19 10:52:23 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091853.D
Date Acquired: 19 Sep 2001 4:31
Inst: HP_07 Operator ID: SA
Name: 47294.05 *E02R9 *
Misc: *EPA*31G/5.0ML*15
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:40 2001 Quant Results File: XPCBI18.RES



CA 9-19-01

DCB #2 17.41min area: 545266 m

Integration Time Range: 17.33 - 17.56

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_19_01\7_091853.D
Report generated: Wed Sep 19 10:52:24 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02S0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) SOIL Lab Sample ID: 47294.06

Sample wt/vol: 31.6 (g/mL) G Lab File ID:_____

% Moisture: 62 decanted: (Y/N) __ Date Received: 08/16/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/16/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/19/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	82	U
11104-28-2	Aroclor-1221	82	U
11141-16-5	Aroclor-1232	82	U
53469-21-9	Aroclor-1242	82	U
12672-29-6	Aroclor-1248	82	U
11097-69-1	Aroclor-1254	82	U
11096-82-5	Aroclor-1260	82	U
	Surrogate amount spiked	16.66	

FORM I PCB

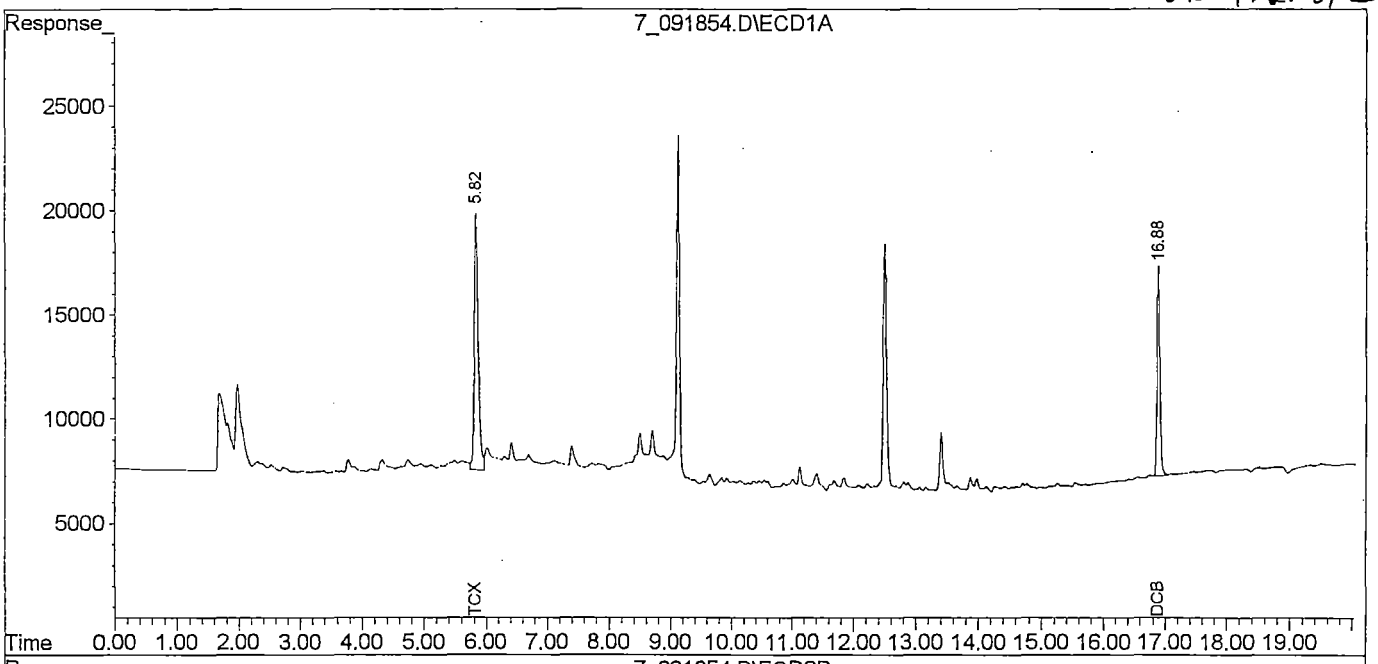
Chromatographic Report

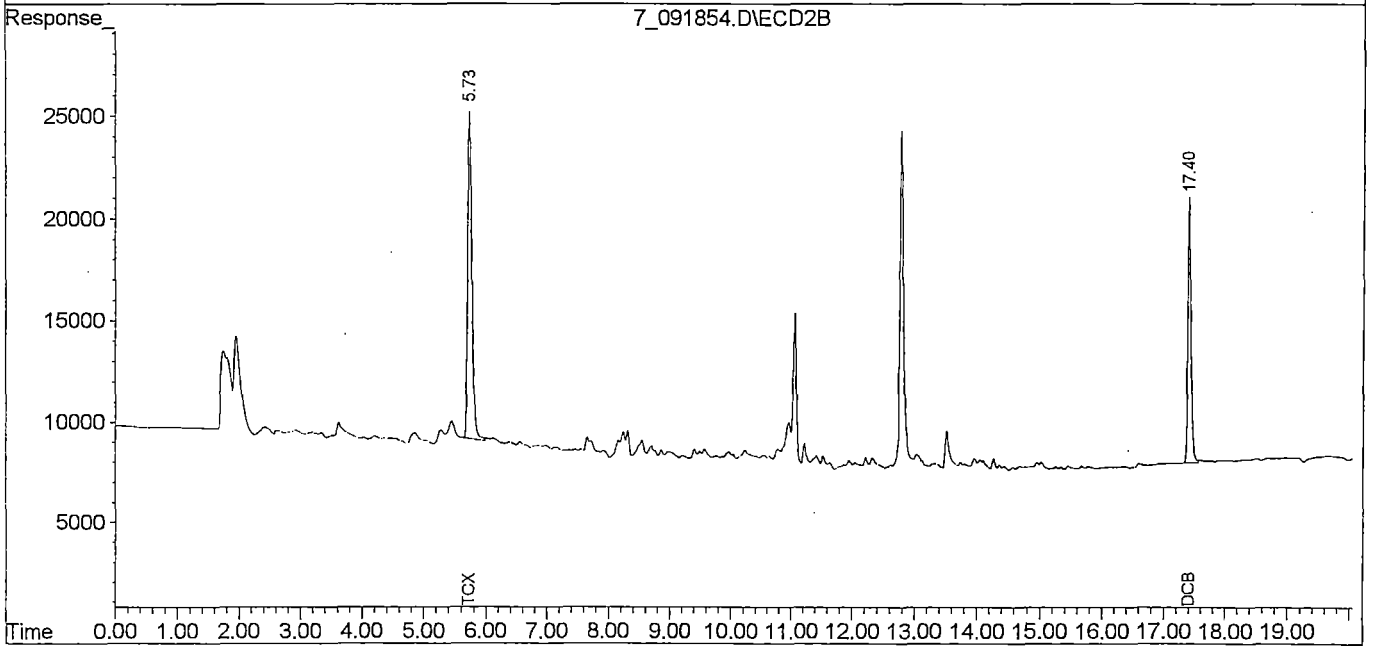
Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091854.D\ECD1A.CH Vial: 29
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091854.D\ECD2B.CH
Acq On : 19 Sep 2001 4:55 Operator: SA
Sample : 47294.06 *E02S0 * Inst : HP_07
Misc : *EPA*31.6G/5.0ML*62 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:41 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-21-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091854.D\ECD1A.CH Vial: 29
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091854.D\ECD2B.CH
Acq On : 19 Sep 2001 4:55 Operator: SA
Sample : 47294.06 *E02S0 * Inst : HP_07
Misc : *EPA*31.6G/5.0ML*62 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:41 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	563940	752092	10.9	9.515
	Spiked Amount 16.656			Recovery	=	65.44%	57.13%
22)	S DCB	16.88	17.40	321133	467677	11.5	13.2m
	Spiked Amount 16.656			Recovery	=	✓69.05%	✓79.25%

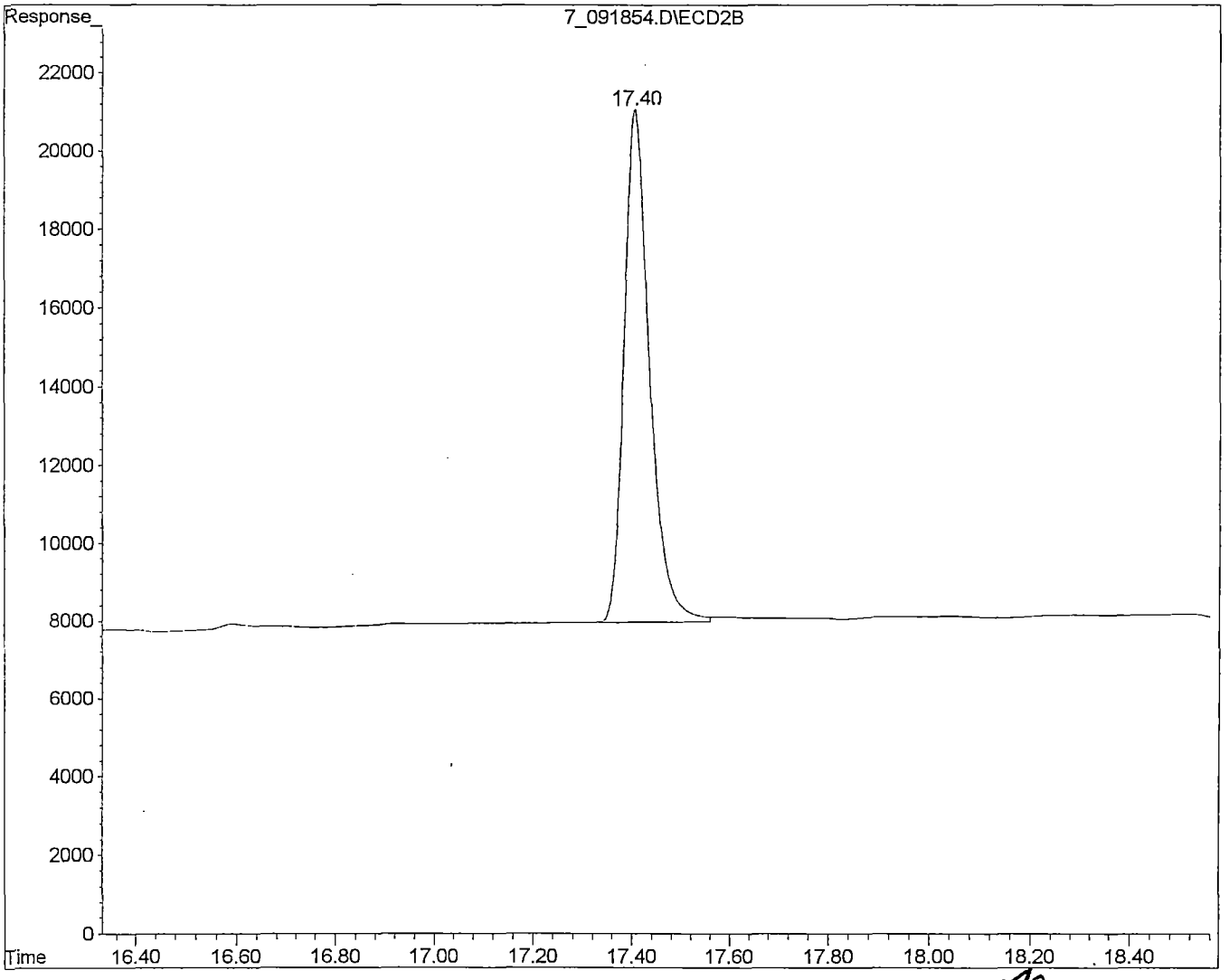
9-19-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091854.D
Date Acquired: 19 Sep 2001 4:55
Inst: HP_07 Operator ID: SA
Name: 47294.06 *E02S0 *
Misc: *EPA*31.6G/5.0ML*62
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:41 2001 Quant Results File: XPCBI18.RES



DCB #2 17.40min area: 467677 m

Integration Time Range: 17.33 - 17.56

OK 9-31-01

F:\HPCHEM\HP\7\DATA\09_19_01\7_091854.D
Report generated: Wed Sep 19 10:52:26 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02S1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) SOIL Lab Sample ID: 47294.07

Sample wt/vol: 31.8 (g/mL) G Lab File ID:_____

% Moisture: 62 decanted: (Y/N) __ Date Received: 08/16/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/16/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/19/01

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	82	U
11104-28-2	Aroclor-1221	82	U
11141-16-5	Aroclor-1232	82	U
53469-21-9	Aroclor-1242	82	U
12672-29-6	Aroclor-1248	82	U
11097-69-1	Aroclor-1254	82	U
11096-82-5	Aroclor-1260	82	U
	Surrogate amount spiked	16.56	

FORM I PCB

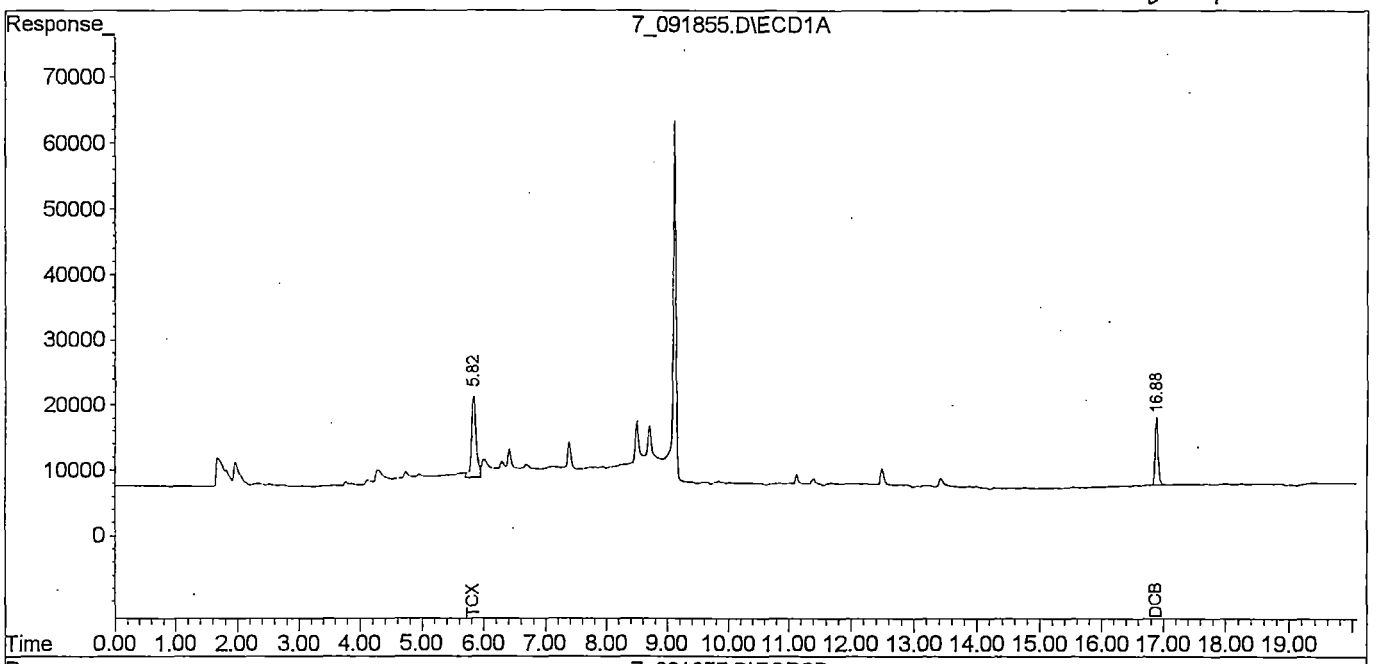
Chromatographic Report

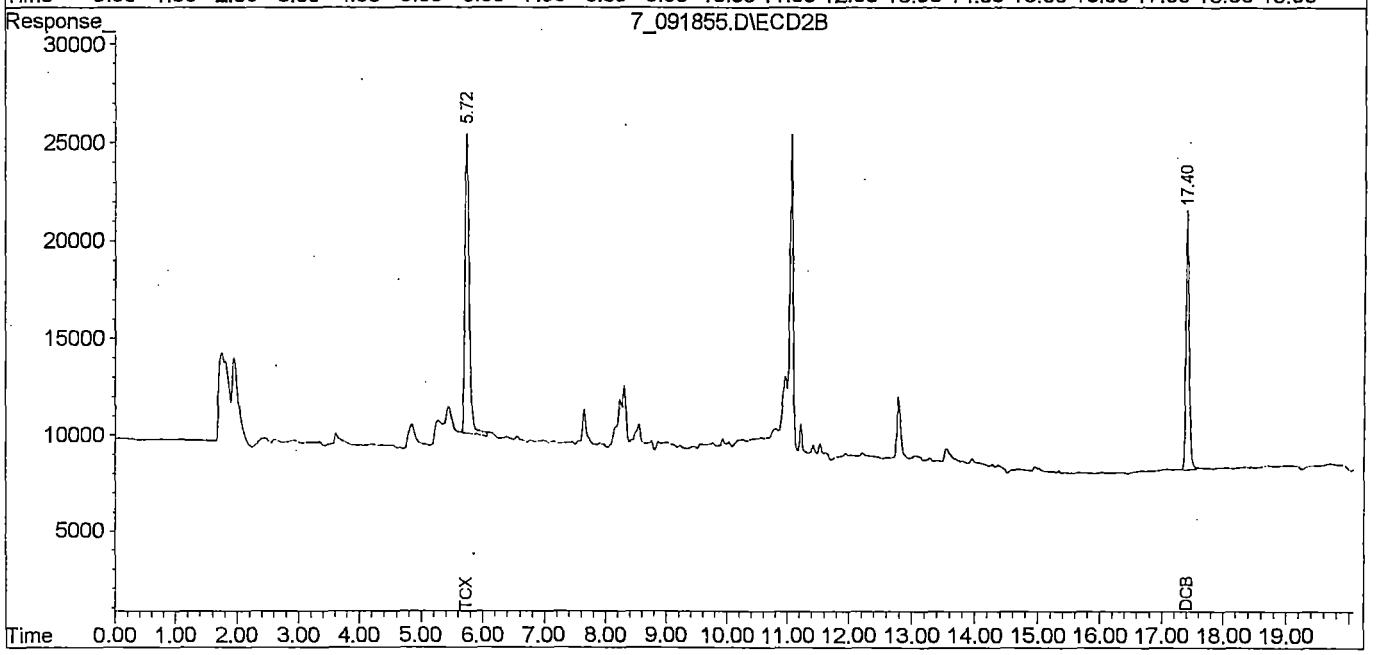
Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091855.D\ECD1A.CH Vial: 30
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091855.D\ECD2B.CH
Acq On : 19 Sep 2001 5:19 Operator: SA
Sample : 47294.07 *E02S1 * Inst : HP_07
Misc : *EPA*31.8G/5.0ML*62 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:42 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-21-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091855.D\ECD1A.CH Vial: 30
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091855.D\ECD2B.CH
Acq On : 19 Sep 2001 5:19 Operator: SA
Sample : 47294.07 *E02S1 * Inst : HP_07
Misc : *EPA*31.8G/5.0ML*62 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:42 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.82	5.72	639715	755647	12.3	9.500
	Spiked Amount 16.551			Recovery	=	74.32%	57.40%
22)	S DCB	16.88	17.40	334860	486887	11.9	13.6m
	Spiked Amount 16.551			Recovery	=	71.90%	82.17%

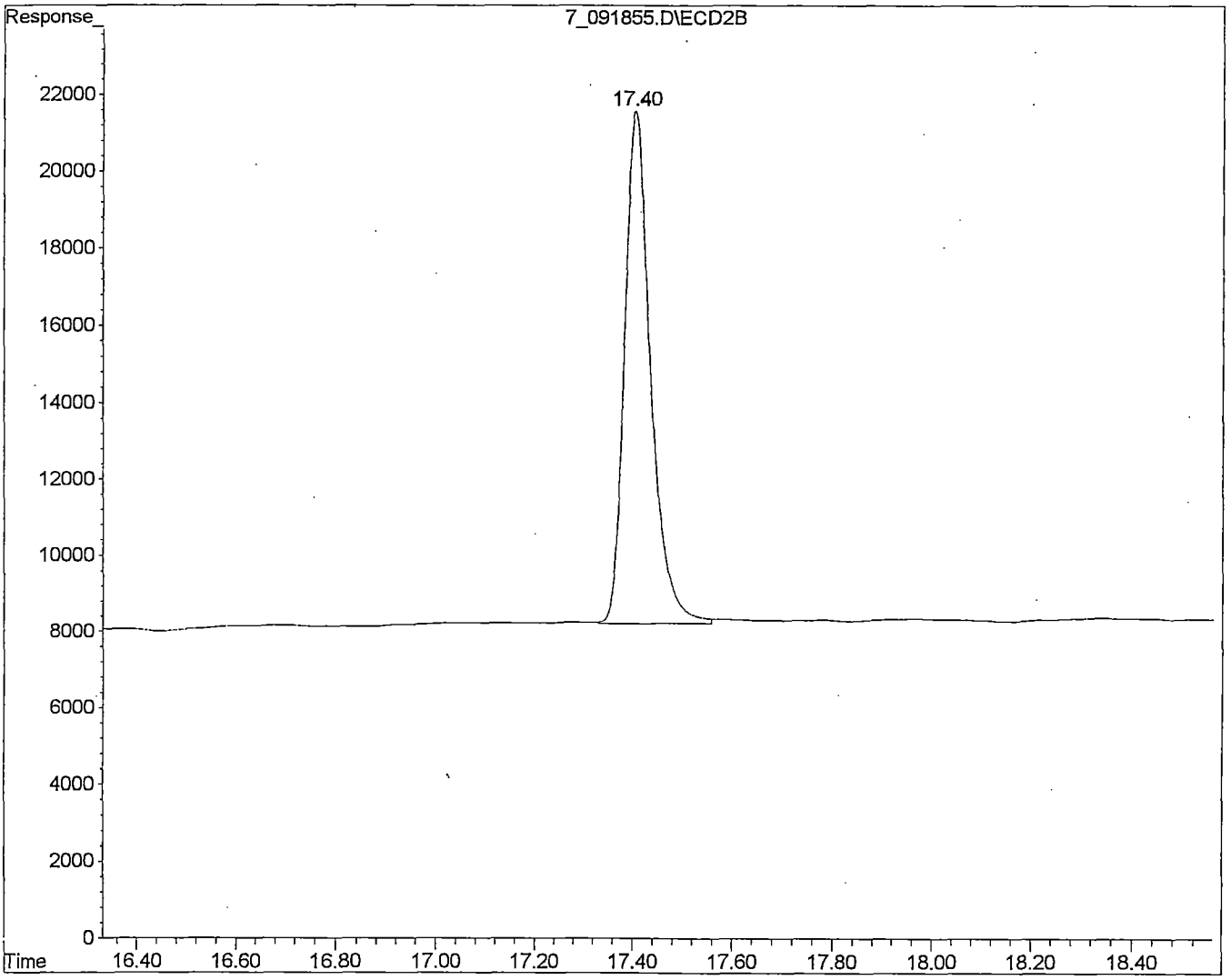
CO 9-19-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091855.D
Date Acquired: 19 Sep 2001 5:19
Inst: HP_07 Operator ID: SA
Name: 47294.07 *E02S1 *
Misc: *EPA*31.8G/5.0ML*62
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:42 2001 Quant Results File: XPCBI18.RES



DCB #2 17.40min area: 486887 m

Integration Time Range: 17.33 - 17.56

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_19_01\7_091855.D
Report generated: Wed Sep 19 10:52:28 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02S2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) SOIL Lab Sample ID: 47294.08

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

% Moisture: 19 decanted: (Y/N) __ Date Received: 08/16/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/16/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/19/01

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	41	U
11104-28-2	Aroclor-1221	41	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U
	Surrogate amount spiked	8.20	

FORM I PCB

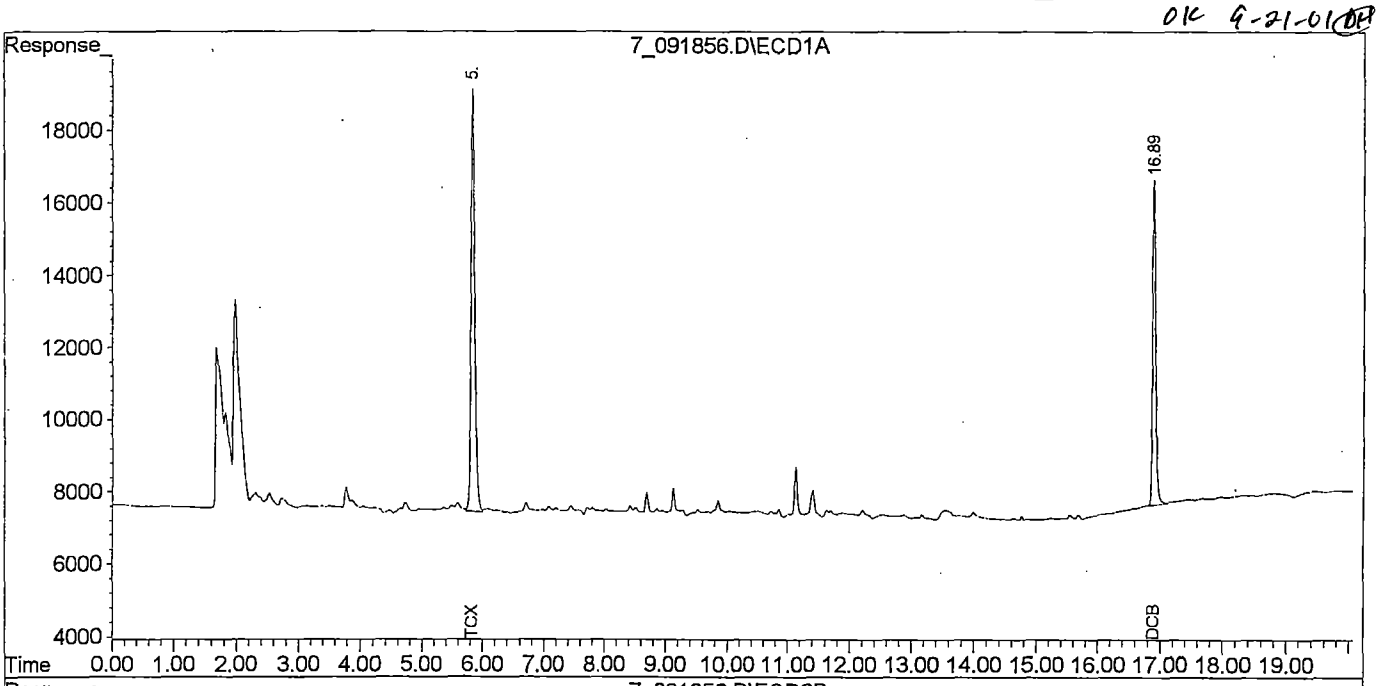
Chromatographic Report

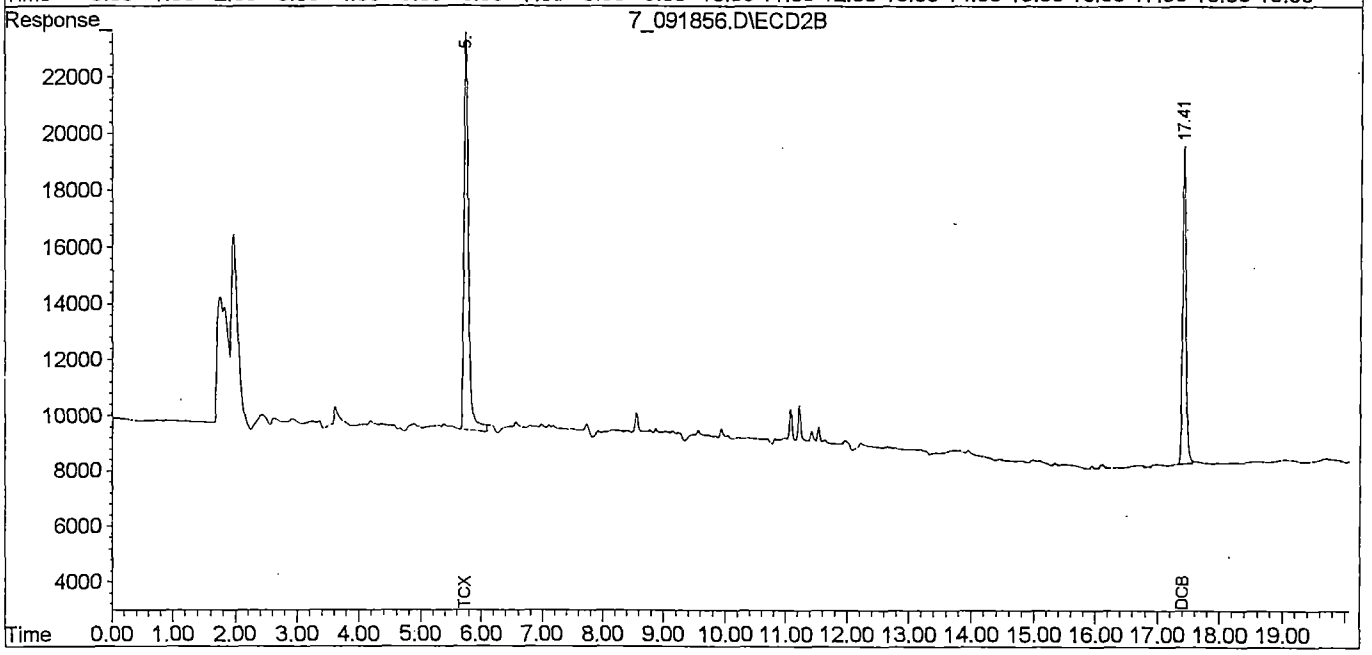
Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091856.D\ECD1A.CH Vial: 31
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091856.D\ECD2B.CH
Acq On : 19 Sep 2001 5:43 Operator: SA
Sample : 47294.08 *E02S2 * Inst : HP_07
Misc : *EPA*30.1G/5.0ML*19 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:42 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-21-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091856.D\ECD1A.CH Vial: 31
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091856.D\ECD2B.CH
Acq On : 19 Sep 2001 5:43 Operator: SA
Sample : 47294.08 *E02S2 * Inst : HP_07
Misc : *EPA*30.1G/5.0ML*19 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 10:42 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

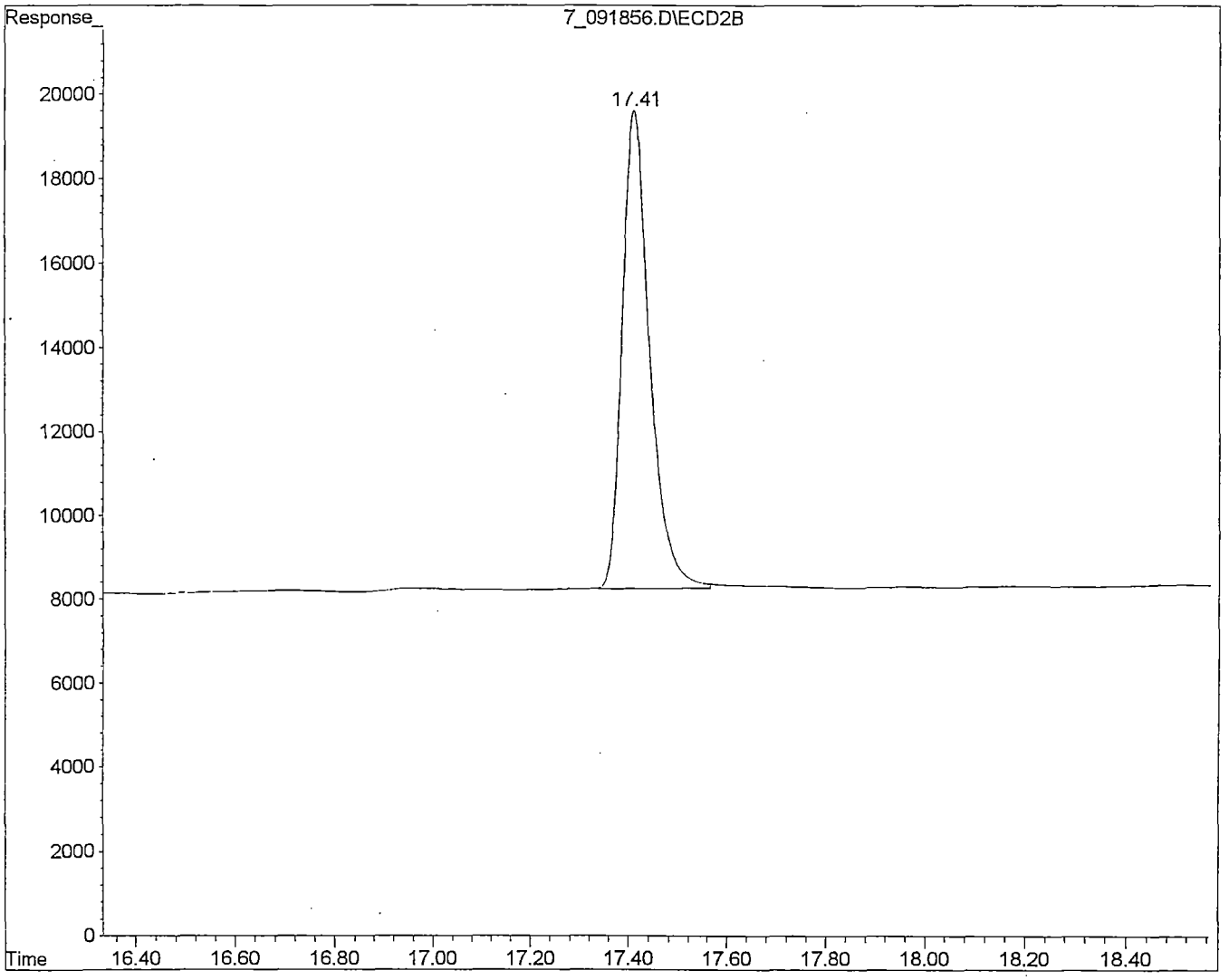
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	504724	723020	4.807	4.505
	Spiked Amount 8.203			Recovery	=	58.60%	54.92%
22)	S DCB	16.89	17.41	307440	429541	5.433	5.954m
	Spiked Amount 8.203			Recovery	=	66.23%	72.58%

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091856.D
Date Acquired: 19 Sep 2001 5:43
Inst: HP_07 Operator ID: SA
Name: 47294.08 *E02S2 *
Misc: *EPA*30.1G/5.0ML*19
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 10:42 2001 Quant Results File: XPCBI18.RES



DCB #2 17.41min area: 429541 m

Integration Time Range: 17.33 - 17.56

F:\HPCHEM\HP\7\DATA\09_19_01\7_091856.D
Report generated: Wed Sep 19 10:52:30 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02S3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) SOIL Lab Sample ID: 47294.09

Sample wt/vol: 31.7 (g/mL) G Lab File ID:_____

% Moisture: 17 decanted: (Y/N) __ Date Received: 08/16/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/16/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/19/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	4.9	J
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U
	Surrogate amount spiked	7.60	

FORM I PCB

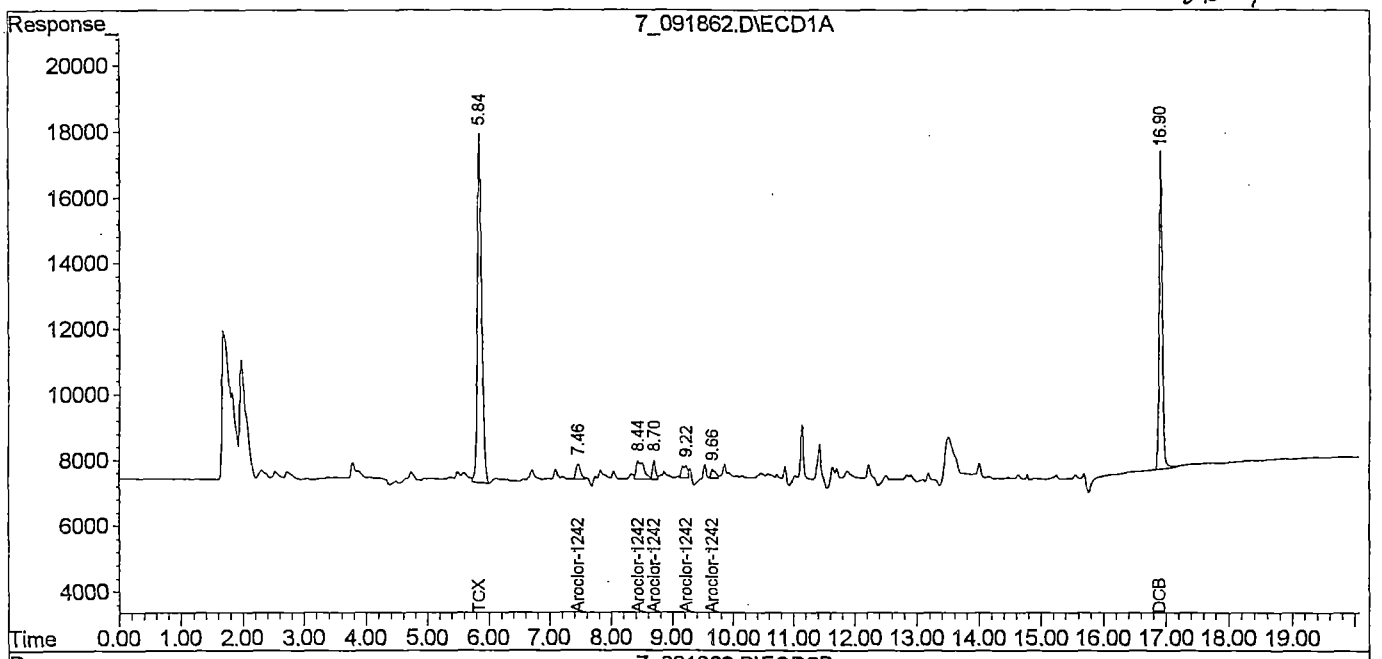
Chromatographic Report

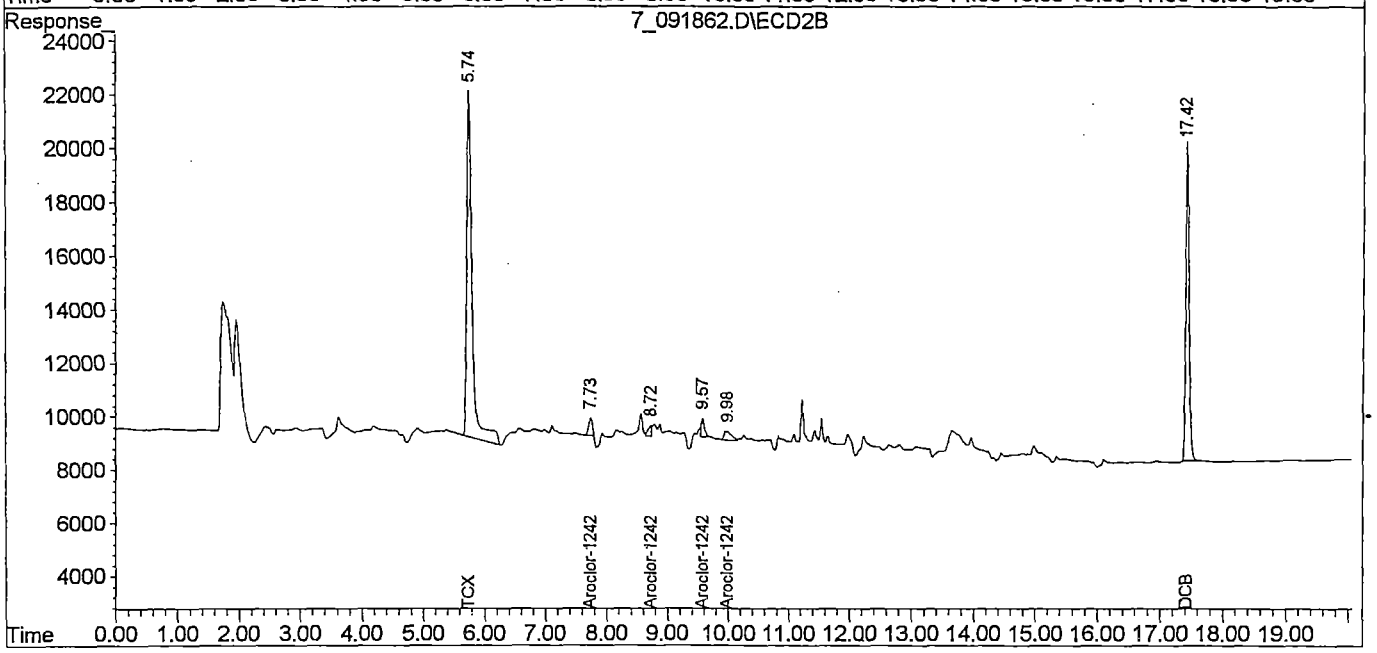
Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D\ECD1A.CH Vial: 37
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D\ECD2B.CH
Acq On : 19 Sep 2001 8:17 Operator: SA
Sample : 47294.09 *E02S3 * Inst : HP_07
Misc : *EPA*31.7G/5.0ML*17 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 7:32 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

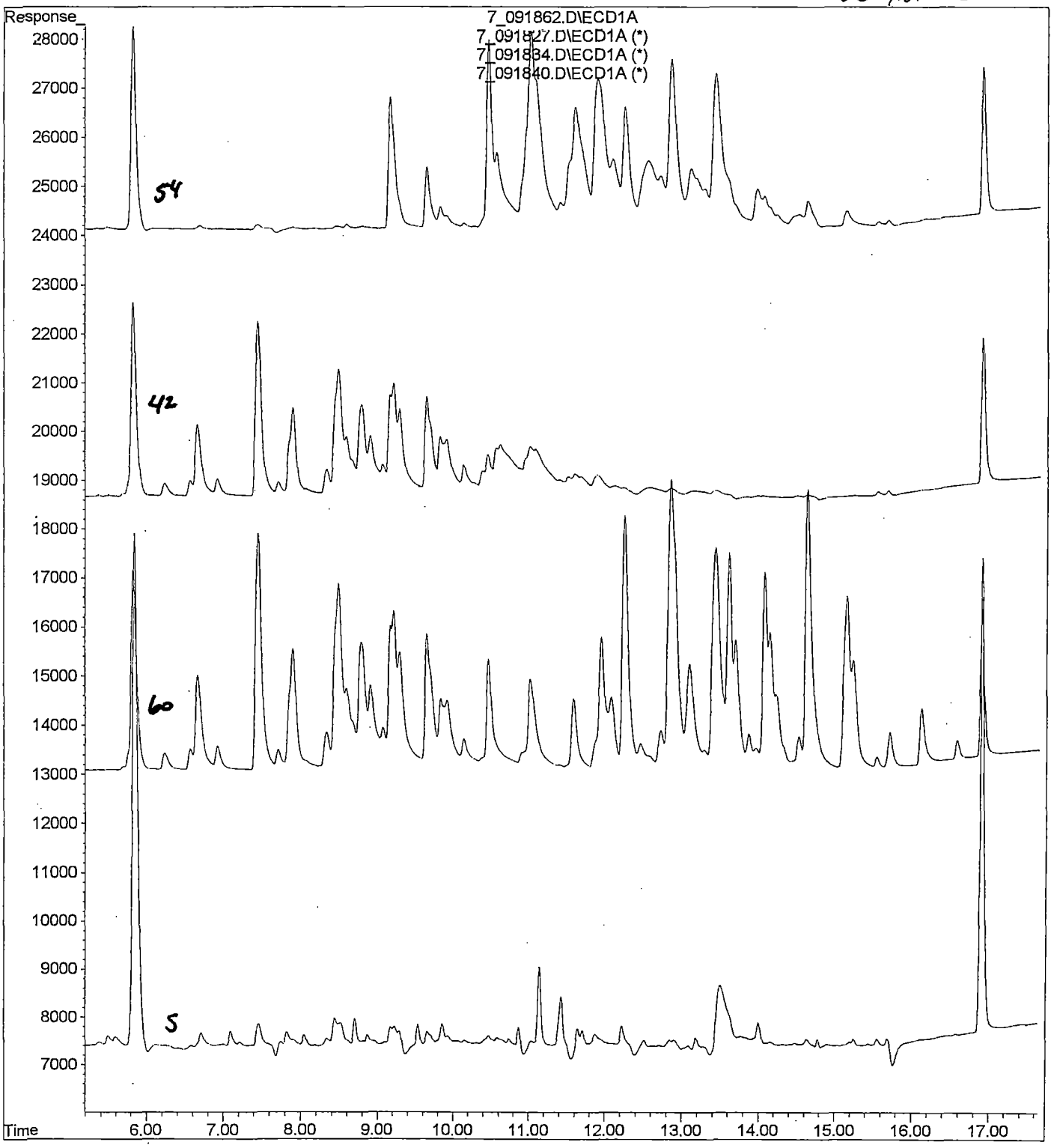
OK 9-21-01





File : F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D
Operator : SA
Acquired : 19 Sep 2001 8:17 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47294.09 *E02S3 *
Misc Info : *EPA*31.7G/5.0ML*17
Vial Number: 37

OK 9-21-01



Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D\ECD1A.CH Vial: 37
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D\ECD2B.CH
Acq On : 19 Sep 2001 8:17 Operator: SA
Sample : 47294.09 *E02S3 * Inst : HP_07
Misc : *EPA*31.7G/5.0ML*17 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 7:32 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

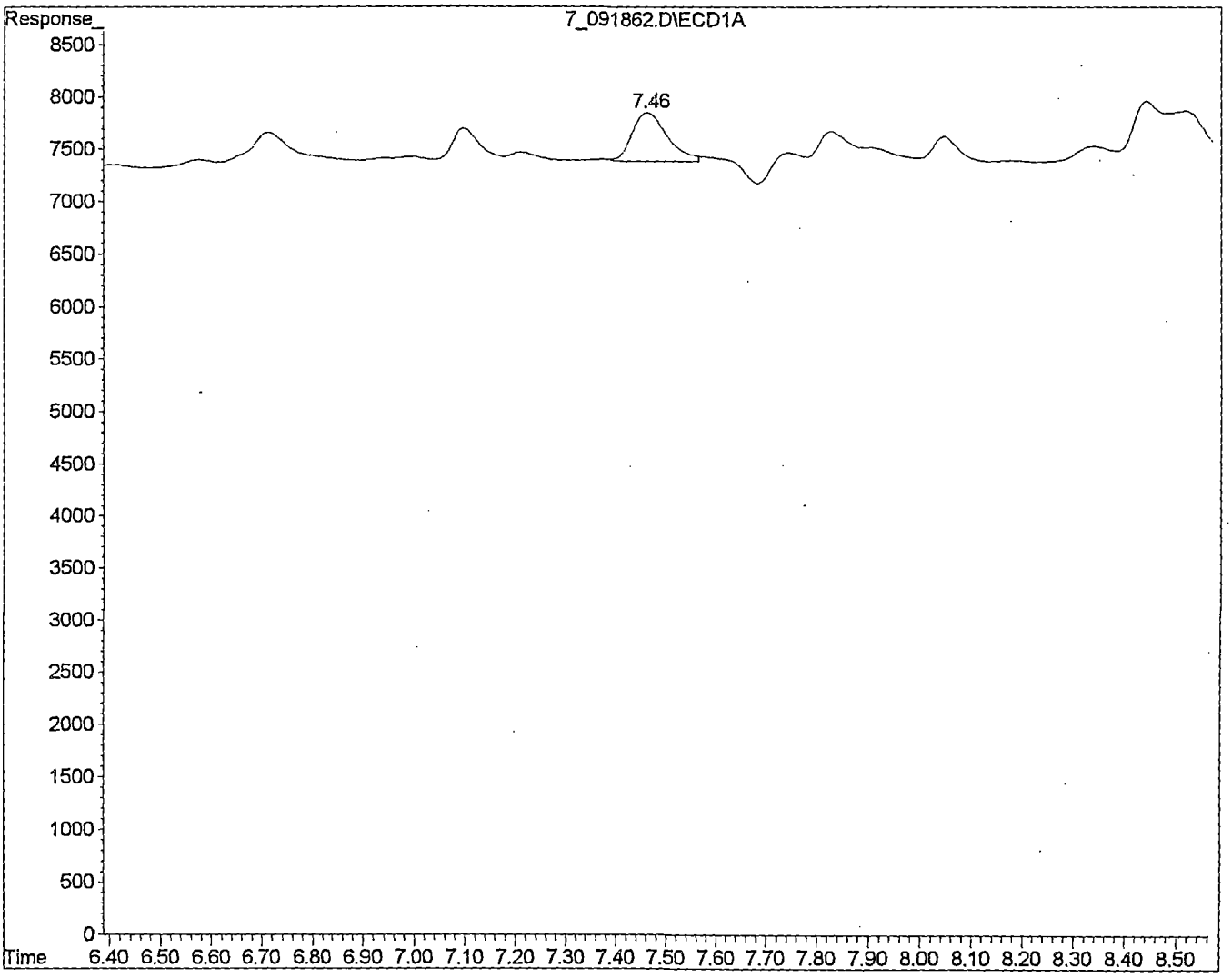
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.84f	5.74	511692	787554	4.516	4.547
	Spiked Amount 7.601			Recovery	=	59.41%	59.82%
22)	S DCB	16.90	17.42	331469	440002	5.428	5.652
	Spiked Amount 7.601			Recovery	=	71.41%	74.35%
	Target Compounds:						
7)	L4 Aroclor-1242	7.46	7.73	22894	25959	4.718m	3.782m
8)	L4 Aroclor-1242 {2}	8.44f	8.72	50833	14697	8.132m	2.148m #
9)	L4 Aroclor-1242 {3}	8.70f	0.00	19416	0	6.212m	N.D. d #
10)	L4 Aroclor-1242 {4}	9.22	9.57f	23886	25914	6.325m	8.075m #
11)	L4 Aroclor-1242 {5}	9.66	9.98	14430	30024	4.115m	5.652m #
	Sum Aroclor-1242			131459	96594	29.5	19.7
	Average Aroclor-1242					5.900	4.914

AG 9-20-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D
Date Acquired: 19 Sep 2001 8:17
Inst: HP_07 Operator ID: SA
Name: 47294.09 *E02S3 *
Misc: *EPA*31.7G/5.0ML*17
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 7:32 2001 Quant Results File: XPCBI18.RES



09.20.01

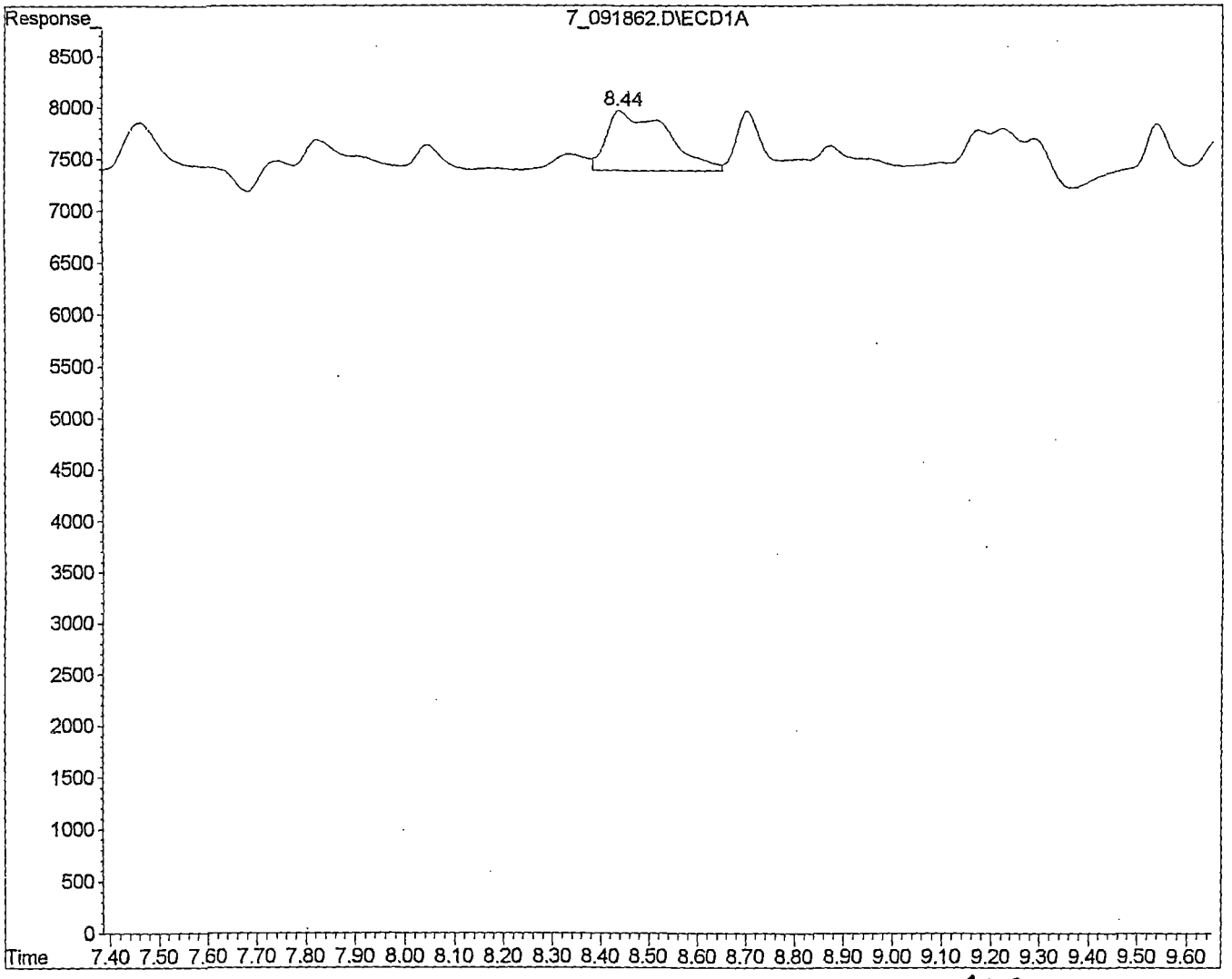
Aroclor-1242 7.46min area: 22894 m

Integration Time Range: 7.39 - 7.57

F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D
Report generated: Thu Sep 20 07:55:14 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D
Date Acquired: 19 Sep 2001 8:17
Inst: HP_07 Operator ID: SA
Name: 47294.09 *E02S3 *
Misc: *EPA*31.7G/5.0ML*17
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 7:32 2001 Quant Results File: XPCBI18.RES



19.20.7

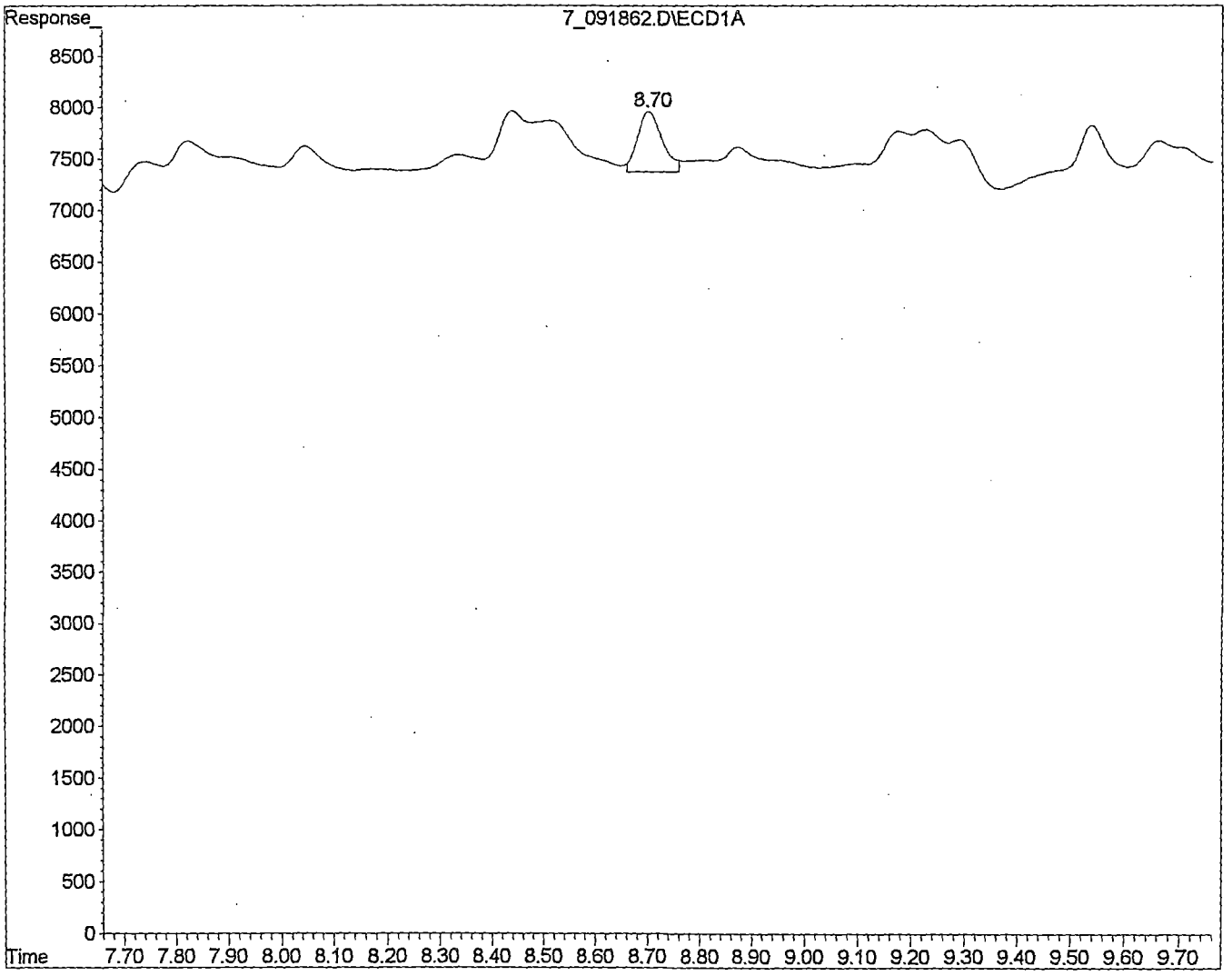
Aroclor-1242 {2} 8.44min area: 50833 m

Integration Time Range: 8.39 - 8.65

F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D
Report generated: Thu Sep 20 07:55:15 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D
Date Acquired: 19 Sep 2001 8:17
Inst: HP_07 Operator ID: SA
Name: 47294.09 *E02S3 *
Misc: *EPA*31.7G/5.0ML*17
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 7:32 2001 Quant Results File: XPCBI18.RES



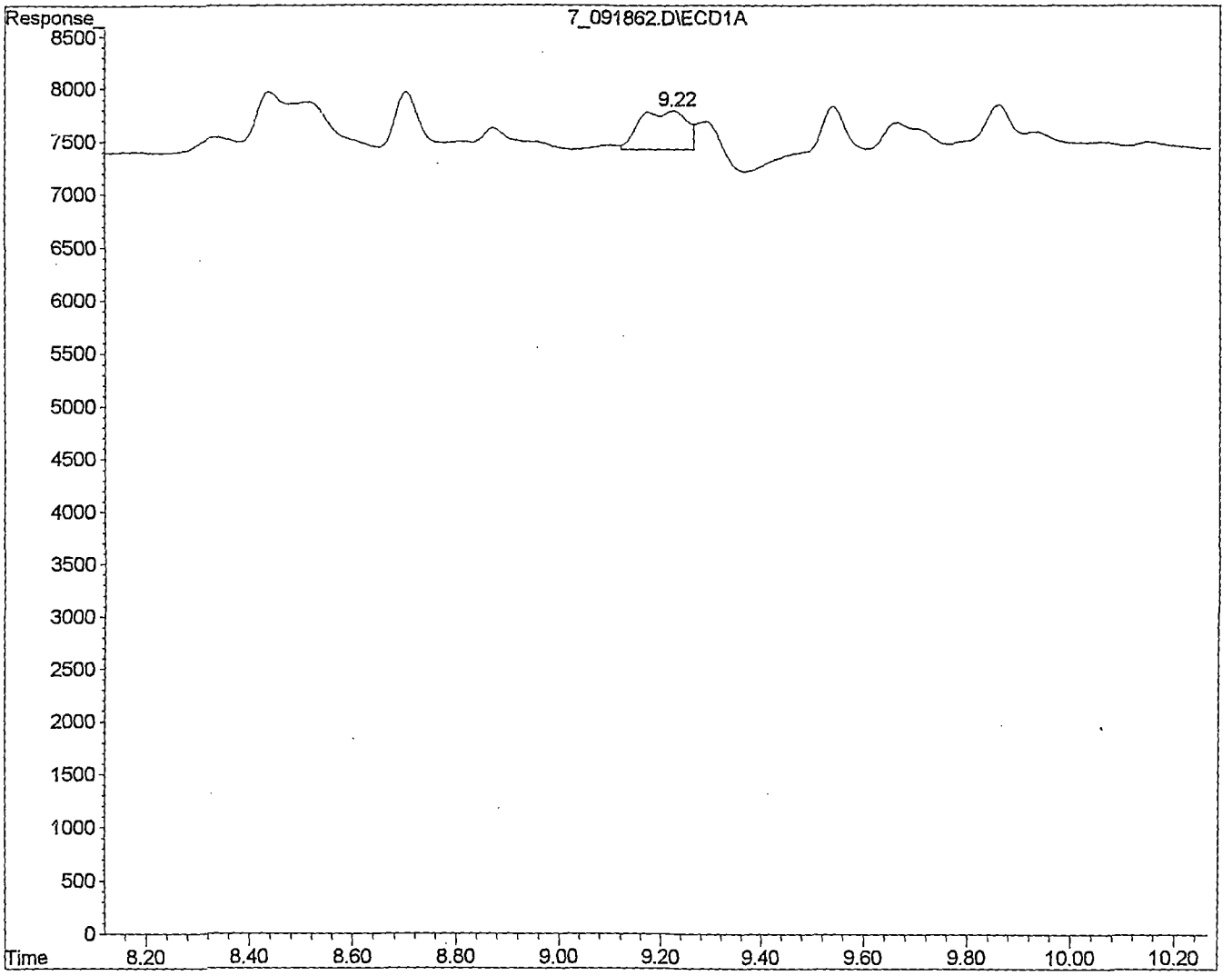
Aroclor-1242 {3} 8.70min area: 19416 m

Integration Time Range: 8.66 - 8.76

F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D
Report generated: Thu Sep 20 07:55:15 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D
Date Acquired: 19 Sep 2001 8:17
Inst: HP_07 Operator ID: SA
Name: 47294.09 *E02S3 *
Misc: *EPA*31.7G/5.0ML*17
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 7:32 2001 Quant Results File: XPCBI18.RES



CA 9.2-.4

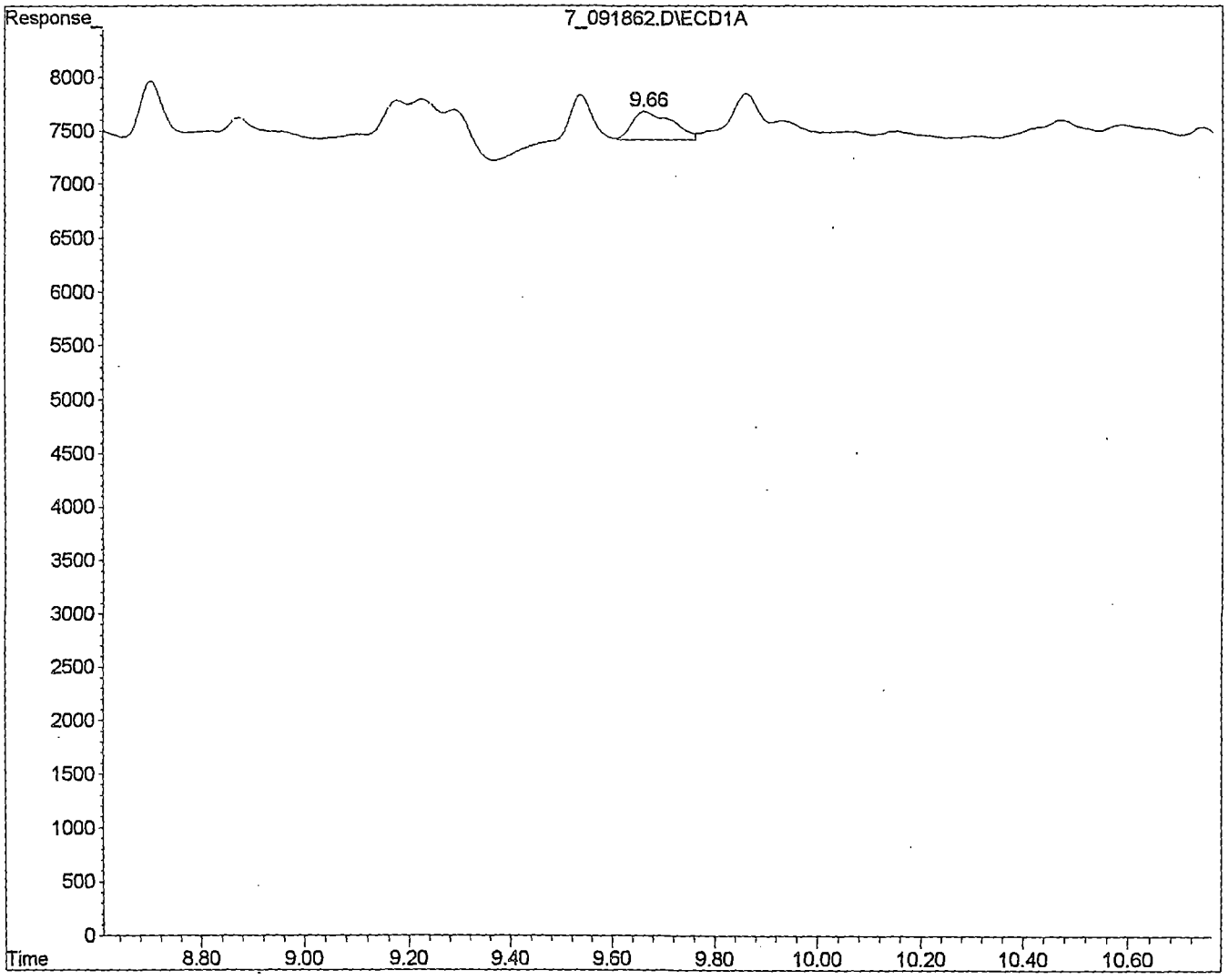
Aroclor-1242 {4} 9.22min area: 23886 m

Integration Time Range: 9.12 - 9.27

F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D
Report generated: Thu Sep 20 07:55:16 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D
Date Acquired: 19 Sep 2001 8:17
Inst: HP_07 Operator ID: SA
Name: 47294.09 *E02S3 *
Misc: *EPA*31.7G/5.0ML*17
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 7:32 2001 Quant Results File: XPCBI18.RES



AS 9-20-01

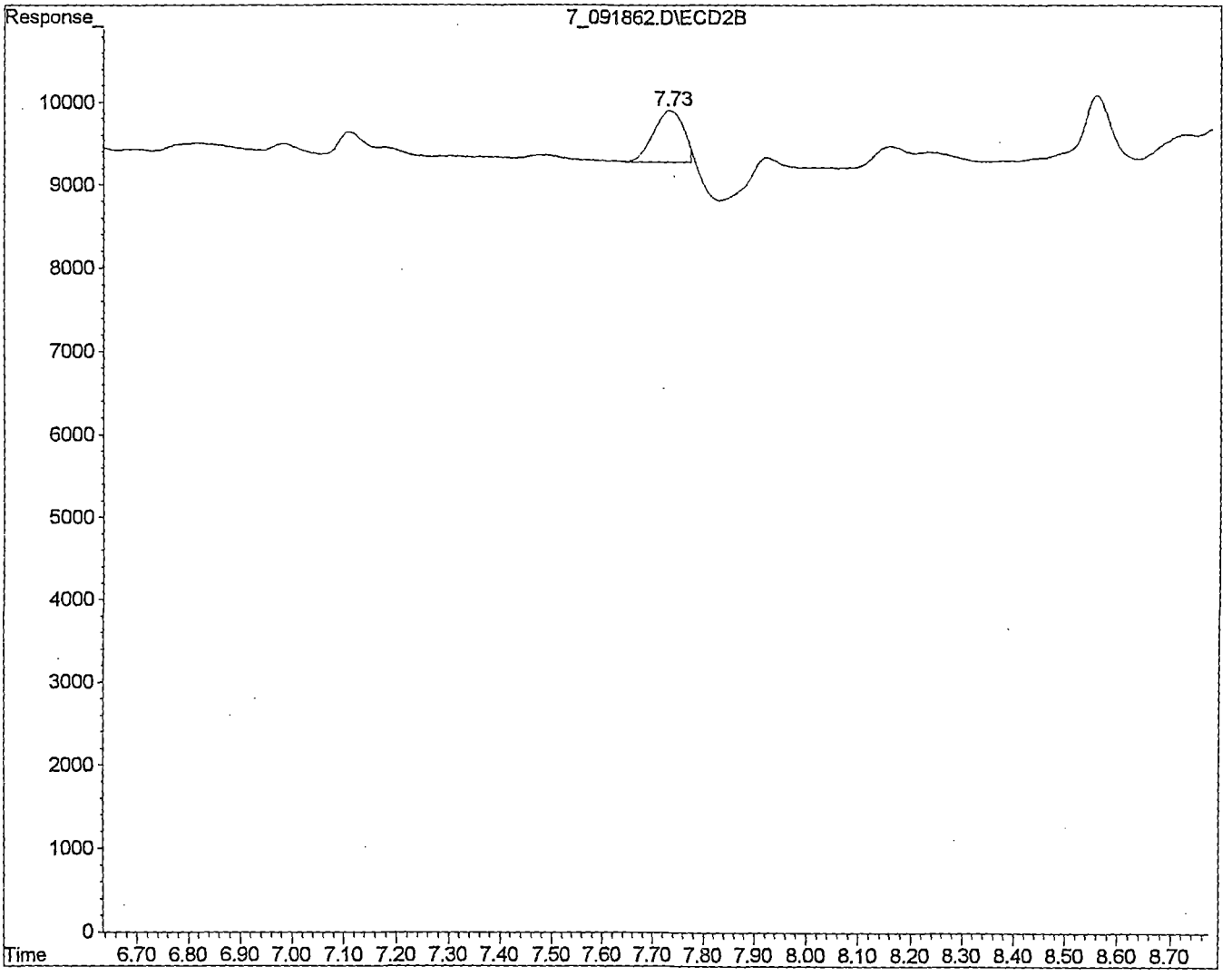
Aroclor-1242 {5} 9.66min area: 14430 m

Integration Time Range: 9.61 - 9.76

F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D
Report generated: Thu Sep 20 07:55:17 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D
Date Acquired: 19 Sep 2001 8:17
Inst: HP_07 Operator ID: SA
Name: 47294.09 *E02S3 *
Misc: *EPA*31.7G/5.0ML*17
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 7:32 2001 Quant Results File: XPCBI18.RES



09-20-01

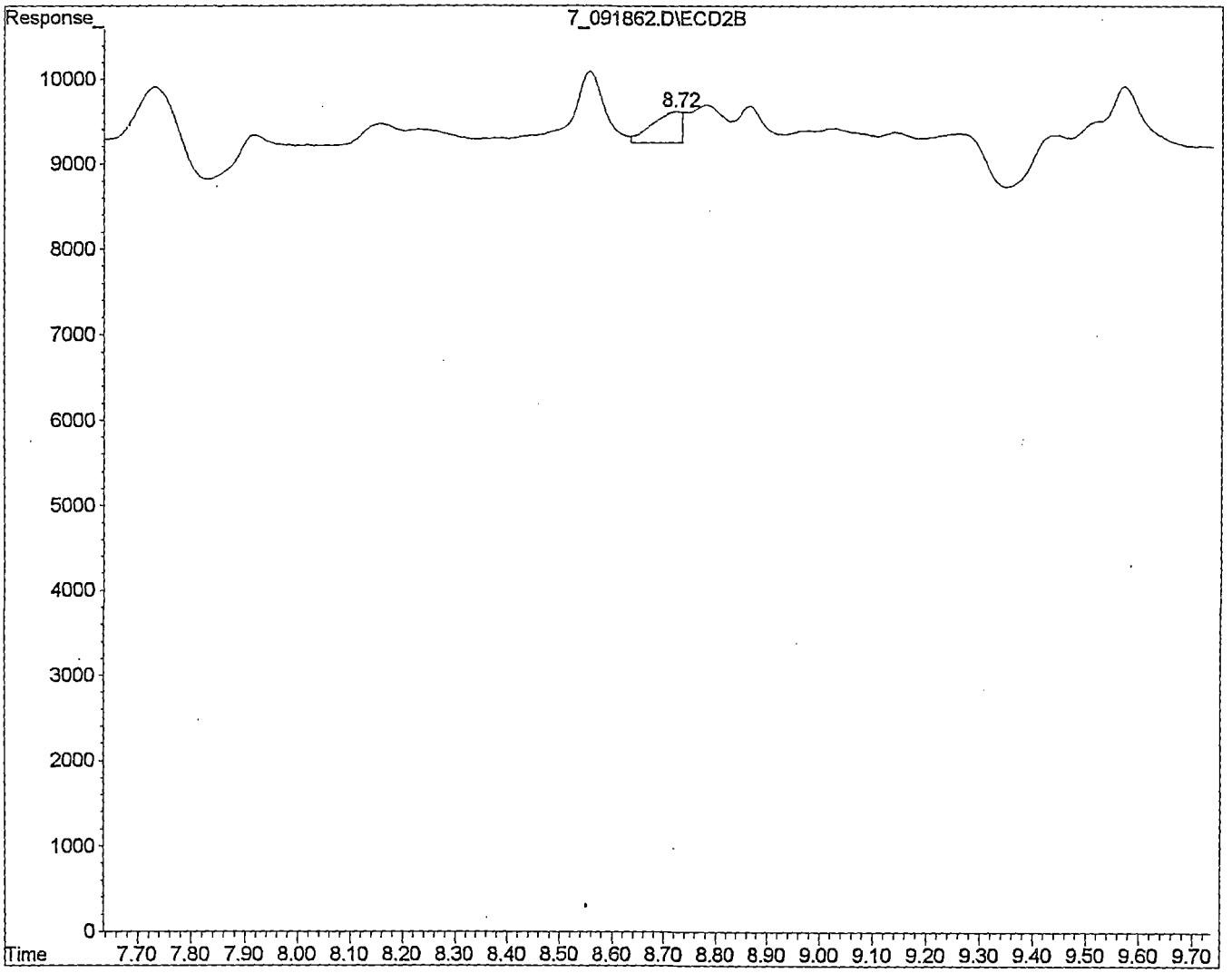
Aroclor-1242 #2 7.73min area: 25959 m

Integration Time Range: 7.64 - 7.77

F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D
Report generated: Thu Sep 20 07:55:18 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D
Date Acquired: 19 Sep 2001 8:17
Inst: HP_07 Operator ID: SA
Name: 47294.09 *E02S3 *
Misc: *EPA*31.7G/5.0ML*17
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 7:32 2001 Quant Results File: XPCBI18.RES



09-20-01

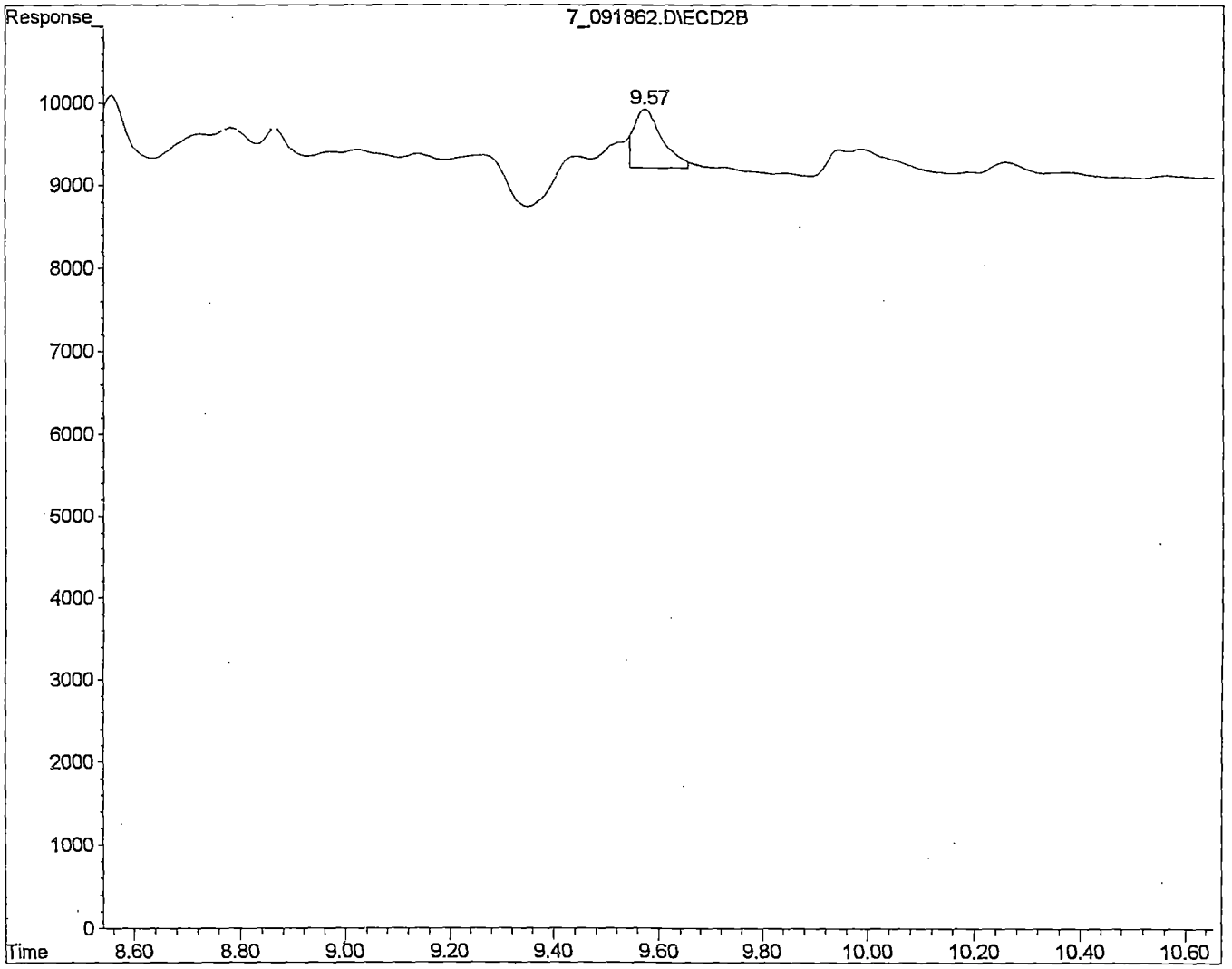
Aroclor-1242 {2} #2 8.72min area: 14697 m

Integration Time Range: 8.64 - 8.73

F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D
Report generated: Thu Sep 20 07:55:18 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D
Date Acquired: 19 Sep 2001 8:17
Inst: HP_07 Operator ID: SA
Name: 47294.09 *E02S3 *
Misc: *EPA*31.7G/5.0ML*17
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 7:32 2001 Quant Results File: XPCBI18.RES



09-20-01

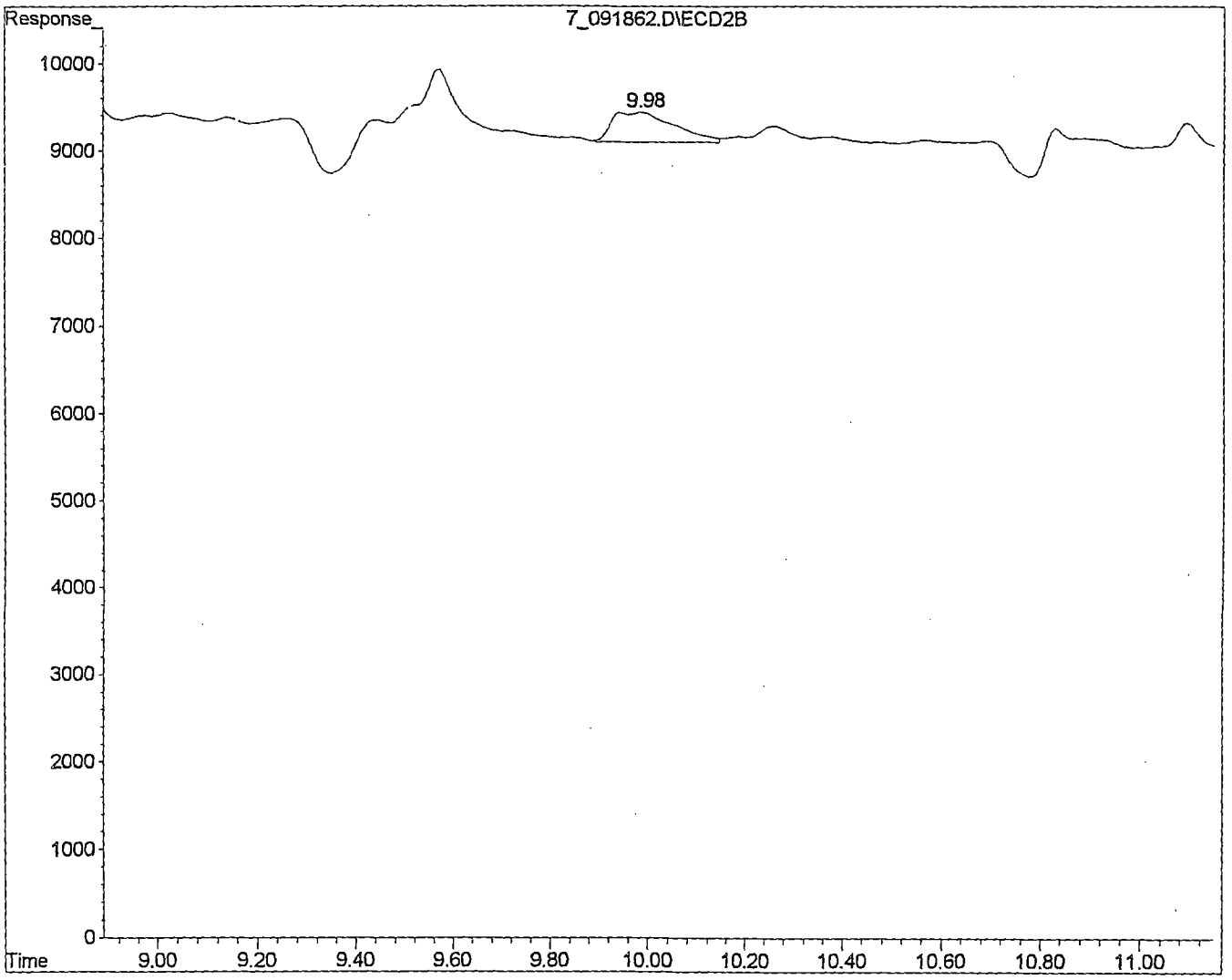
Aroclor-1242 {4} #2 9.57min area: 25914 m

Integration Time Range: 9.54 - 9.65

F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D
Report generated: Thu Sep 20 07:55:19 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D
Date Acquired: 19 Sep 2001 8:17
Inst: HP_07 Operator ID: SA
Name: 47294.09 *E02S3 *
Misc: *EPA*31.7G/5.0ML*17
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 7:32 2001 Quant Results File: XPCBI18.RES



Aroclor-1242 {5} #2 9.98min area: 30024 m

Integration Time Range: 9.89 - 10.15

F:\HPCHEM\HP\7\DATA\09_19_01\7_091862.D
Report generated: Thu Sep 20 07:55:20 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02S4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) SOIL Lab Sample ID: 47294.10

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

% Moisture: 18 decanted: (Y/N) __ Date Received: 08/16/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/16/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/19/01

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	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	47	
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	14	JP
11096-82-5	Aroclor-1260	7.0	JP
	Surrogate amount spiked	7.89	

FORM I PCB

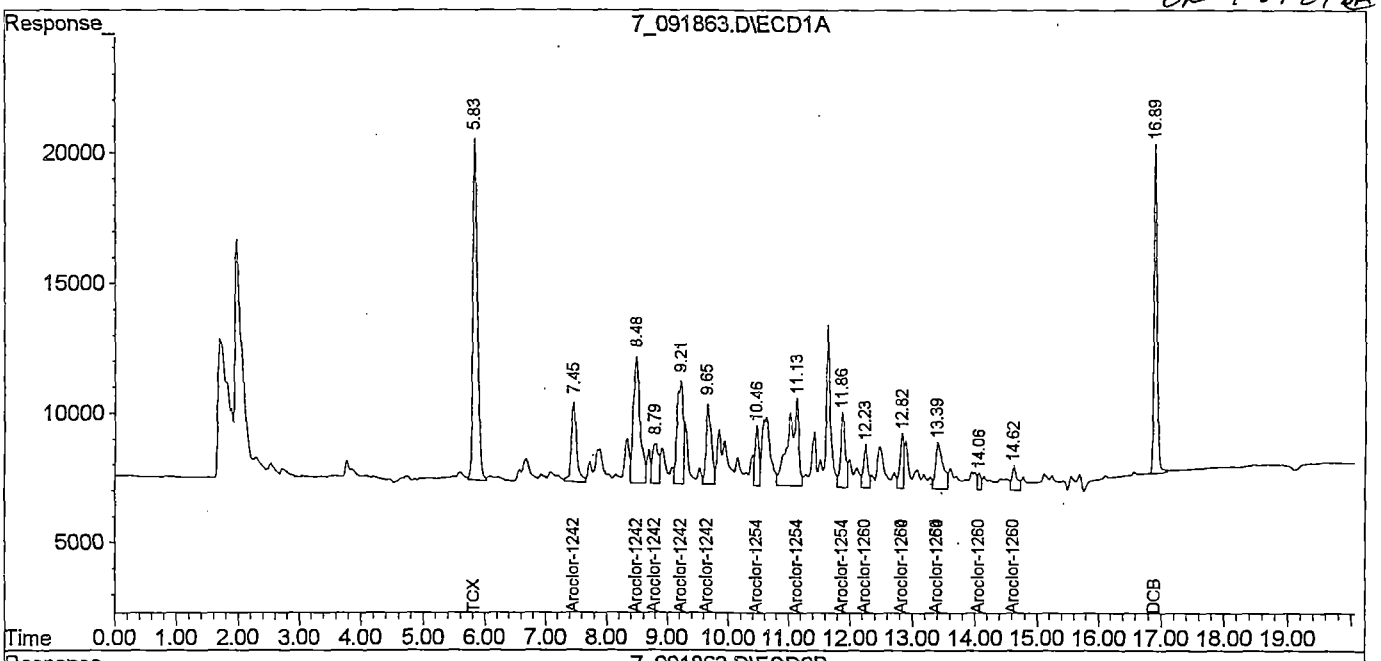
Chromatographic Report

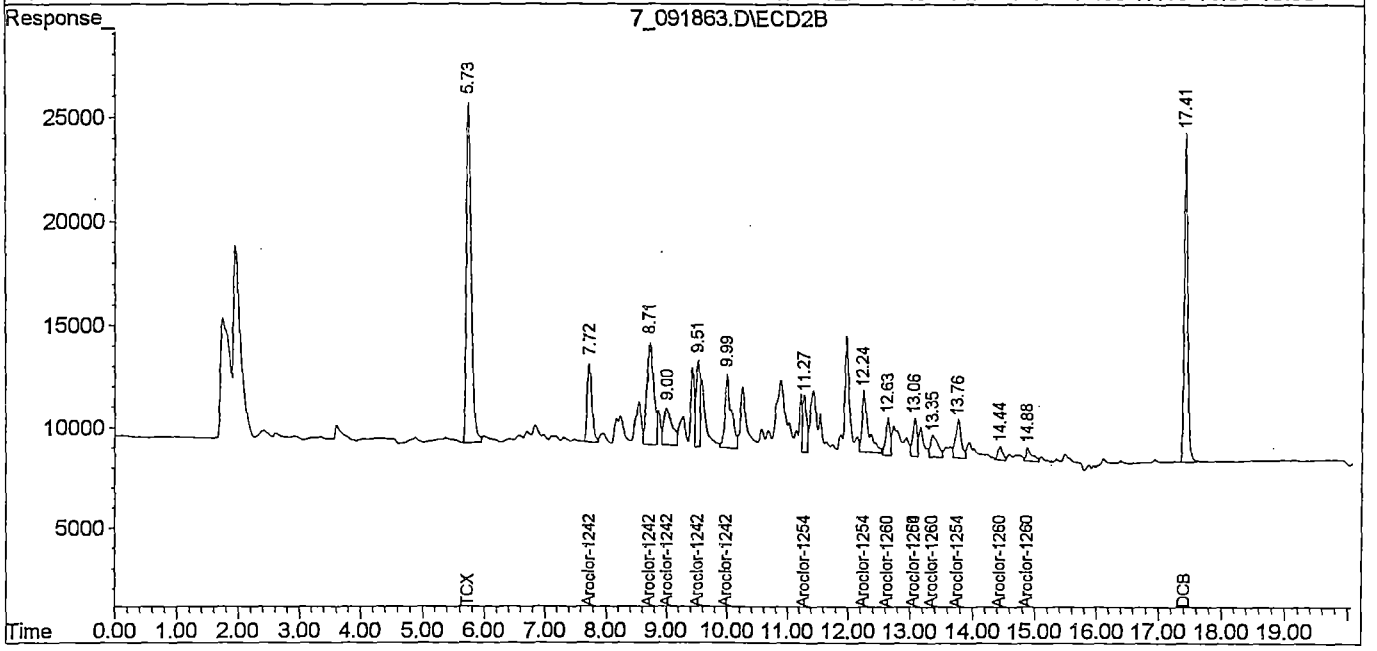
Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091863.D\ECD1A.CH Vial: 38
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091863.D\ECD2B.CH
Acq On : 19 Sep 2001 8:41 Operator: SA
Sample : 47294.10 *E02S4 * Inst : HP_07
Misc : *EPA*30.9G/5.0ML*18 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 15:51 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

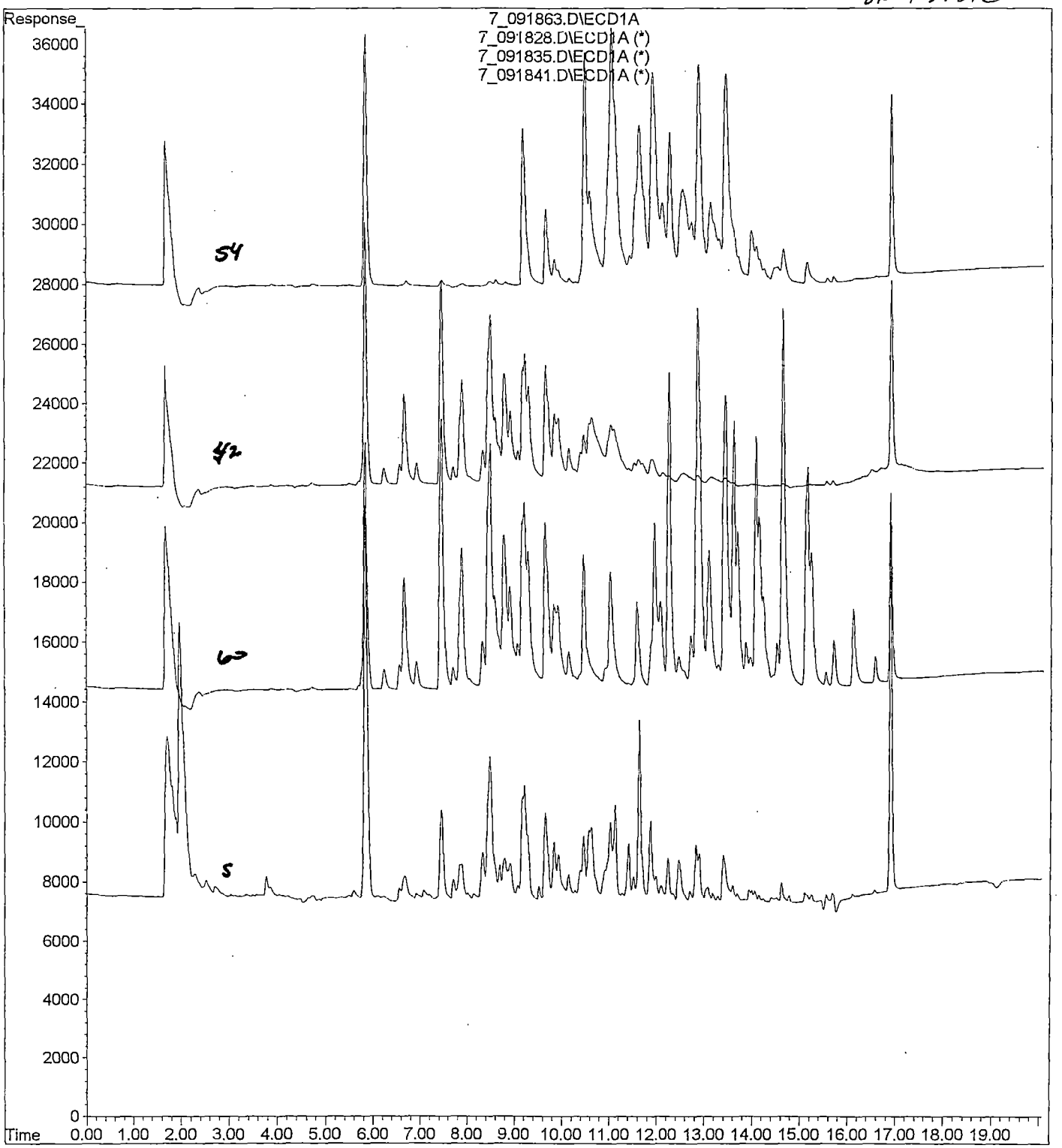
OK 9-21-01 GR





File : F:\HPCHEM\HP\7\DATA\09_19_01\7_091863.D
Operator : SA
Acquired : 19 Sep 2001 8:41 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47294.10 *E02S4 *
Misc Info : *EPA*30.9G/5.0ML*18
Vial Number: 38

OK 9-21-01



Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091863.D\ECD1A.CH Vial: 38
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091863.D\ECD2B.CH
Acq On : 19 Sep 2001 8:41 Operator: SA
Sample : 47294.10 *E02S4 * Inst : HP_07
Misc : *EPA*30.9G/5.0ML*18 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 15:51 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

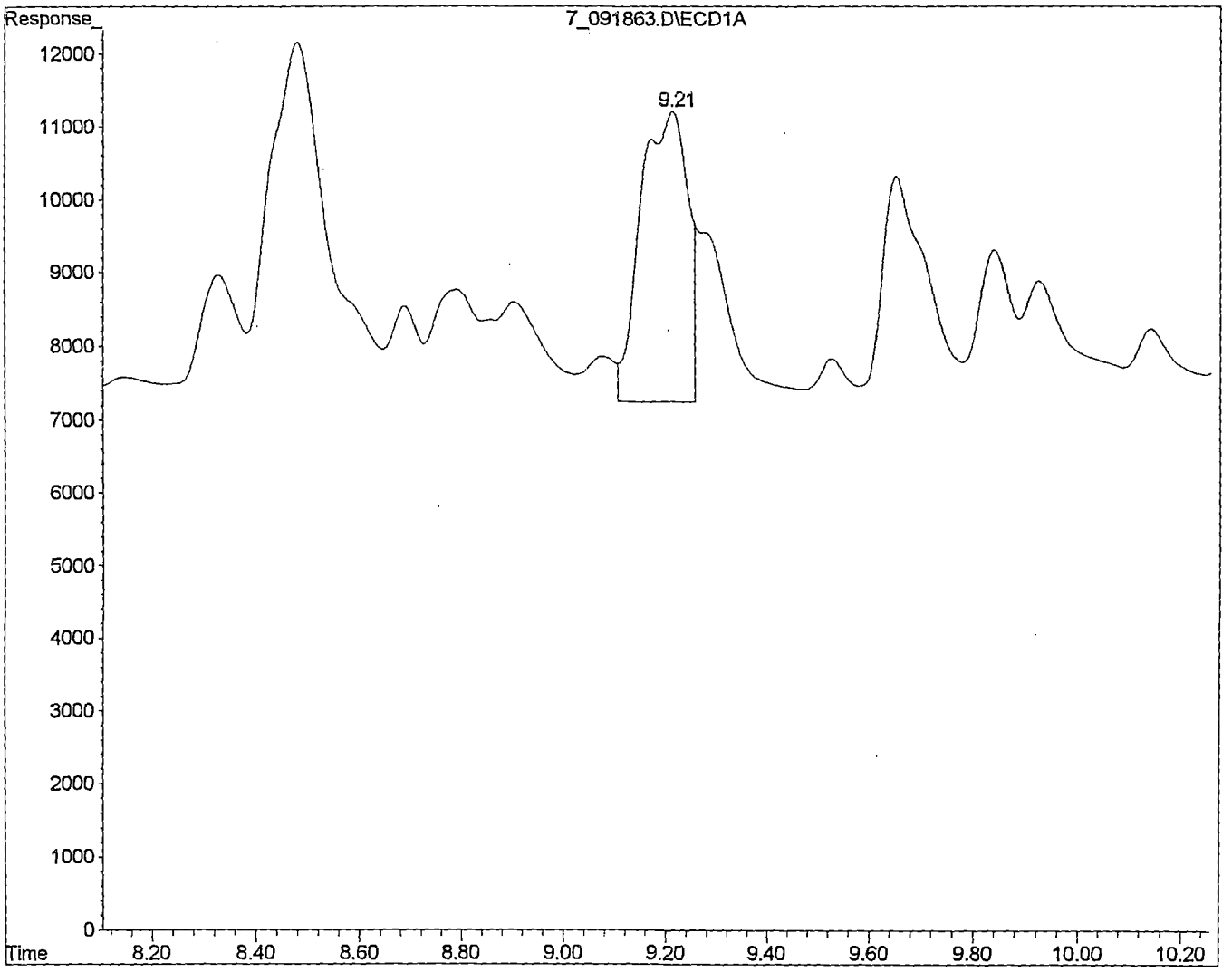
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	664356	921788	6.089	5.527
	Spiked Amount 7.893			Recovery	=	77.14%	70.02%
22)	S DCB	16.89	17.41	429754	592409	7.307	7.902m
	Spiked Amount 7.893			Recovery	=	92.57%	100.11%
	Target Compounds:						
7)	L4 Aroclor-1242	7.45	7.72	188226	217883	40.3	33.0
8)	L4 Aroclor-1242 {2}	8.48	8.71	390233	378423	64.8	57.4
9)	L4 Aroclor-1242 {3}	8.79	9.00	102031	175895	33.9	34.7
10)	L4 Aroclor-1242 {4}	9.21	9.51	257772	176893	70.9m	57.2m
11)	L4 Aroclor-1242 {5}	9.65	9.99	189491	258523	56.1	50.5
	Sum Aroclor-1242			1127754	1207617	266.0	232.9
	Average Aroclor-1242					53.199	46.579
12)	L6 Aroclor-1254	10.46	0.00	103677	0	22.5	N.D. d #
13)	L6 Aroclor-1254 {2}	11.13f	11.28	390063	119038	31.9m	17.0 #
14)	L6 Aroclor-1254 {3}	11.86	12.24f	150266	223294	19.0	17.1m
15)	L6 Aroclor-1254 {4}	12.82	13.06	87252	88158	14.1	13.0
16)	L6 Aroclor-1254 {5}	13.39	13.76	142668	118977	16.7	9.689 #
	Sum Aroclor-1254			873926	549467	104.2	56.7
	Average Aroclor-1254					20.848	14.179
17)	L7 Aroclor-1260	12.23	12.63	83566	88717	12.5	8.275 #
18)	L7 Aroclor-1260 {2}	12.82	13.06	87252	88158	7.817	8.272
19)	L7 Aroclor-1260 {3}	13.39	13.35f	142668	88794	16.0	9.308 #
20)	L7 Aroclor-1260 {4}	14.06	14.44	24766	35977	6.014	5.604
21)	L7 Aroclor-1260 {5}	14.62	14.88	54829	42126	5.899	3.751 #
	Sum Aroclor-1260			393081	343772	19.0	13.9
	Average Aroclor-1260					9.640	7.042

AD 9-20-1

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091863.D
Date Acquired: 19 Sep 2001 8:41
Inst: HP_07 Operator ID: SA
Name: 47294.10 *E02S4 *
Misc: *EPA*30.9G/5.0ML*18
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 15:51 2001 Quant Results File: XPCBI18.RES



Aroclor-1242 {4} 9.21min area: 257772 m

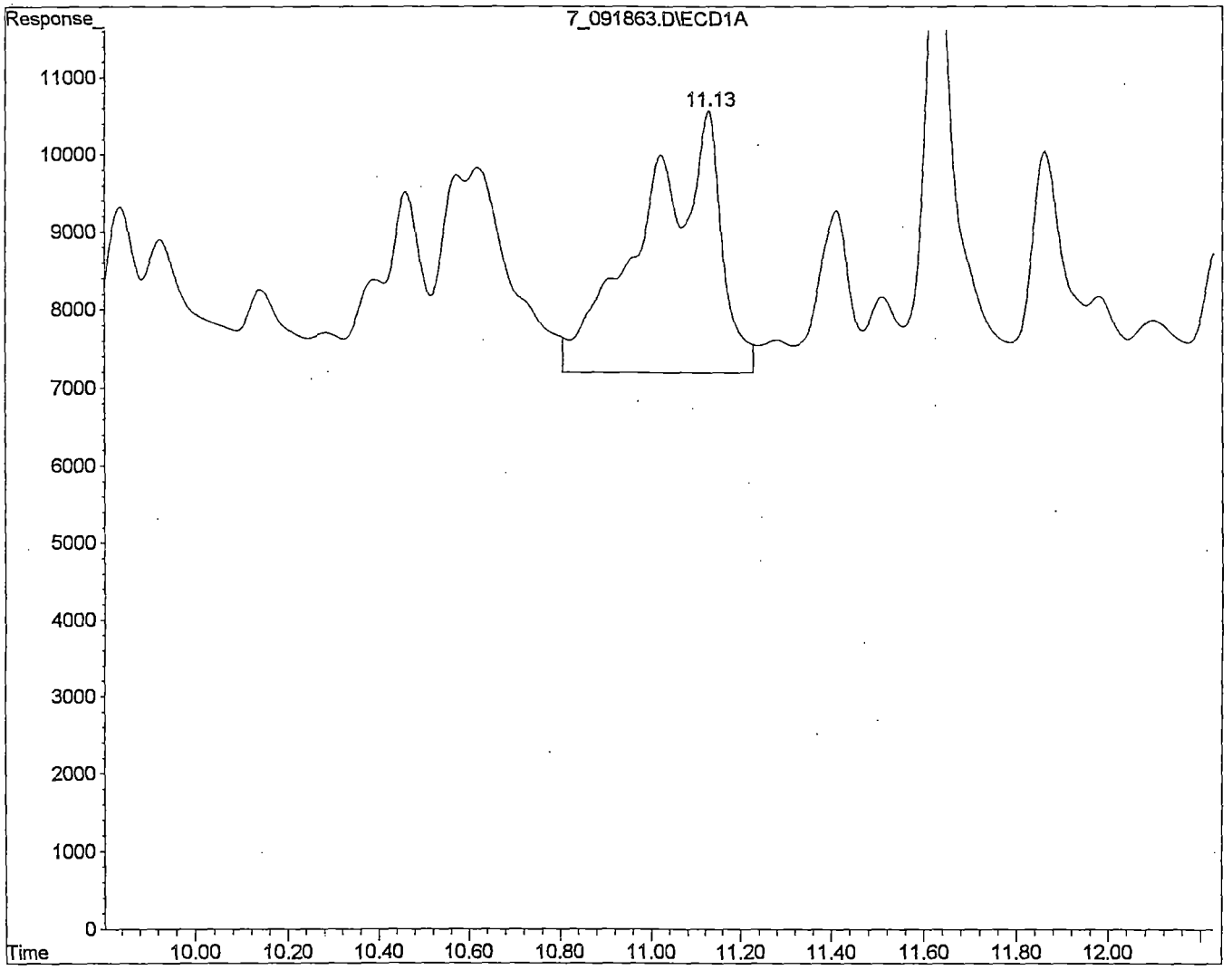
Integration Time Range: 9.10 - 9.26

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_19_01\7_091863.D
Report generated: Thu Sep 20 07:55:22 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091863.D
Date Acquired: 19 Sep 2001 8:41
Inst: HP_07 Operator ID: SA
Name: 47294.10 *E02S4 *
Misc: *EPA*30.9G/5.0ML*18
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 15:51 2001 Quant Results File: XPCBI18.RES



CO 9-20-01

Aroclor-1254 {2} 11.13min area: 390063 m

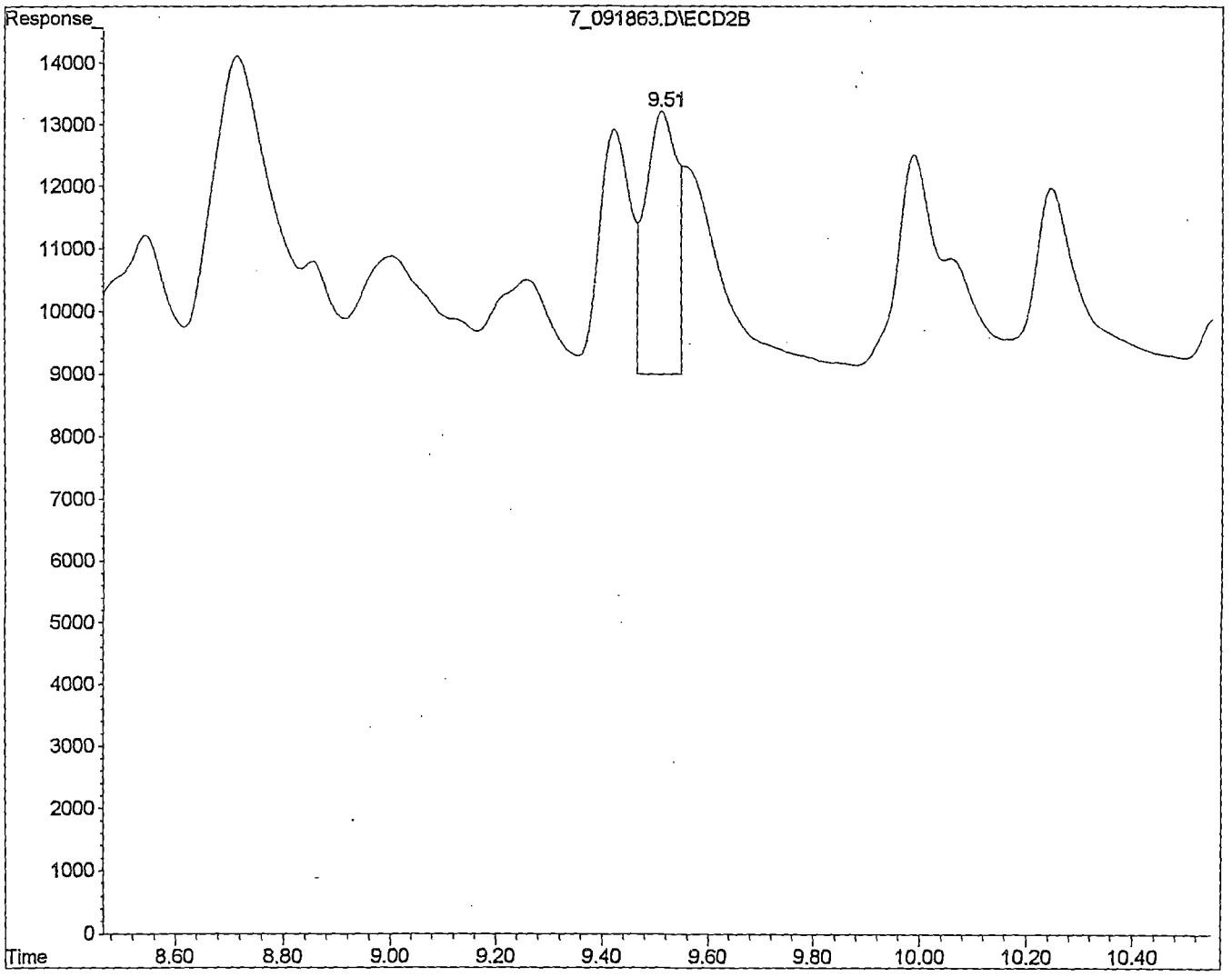
Integration Time Range: 10.80 - 11.23

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_19_01\7_091863.D
Report generated: Thu Sep 20 07:55:22 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091863.D
Date Acquired: 19 Sep 2001 8:41
Inst: HP_07 Operator ID: SA
Name: 47294.10 *E02S4 *
Misc: *EPA*30.9G/5.0ML*18
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 15:51 2001 Quant Results File: XPCBI18.RES



9-20-01

Aroclor-1242 {4} #2 9.51min area: 176893 m

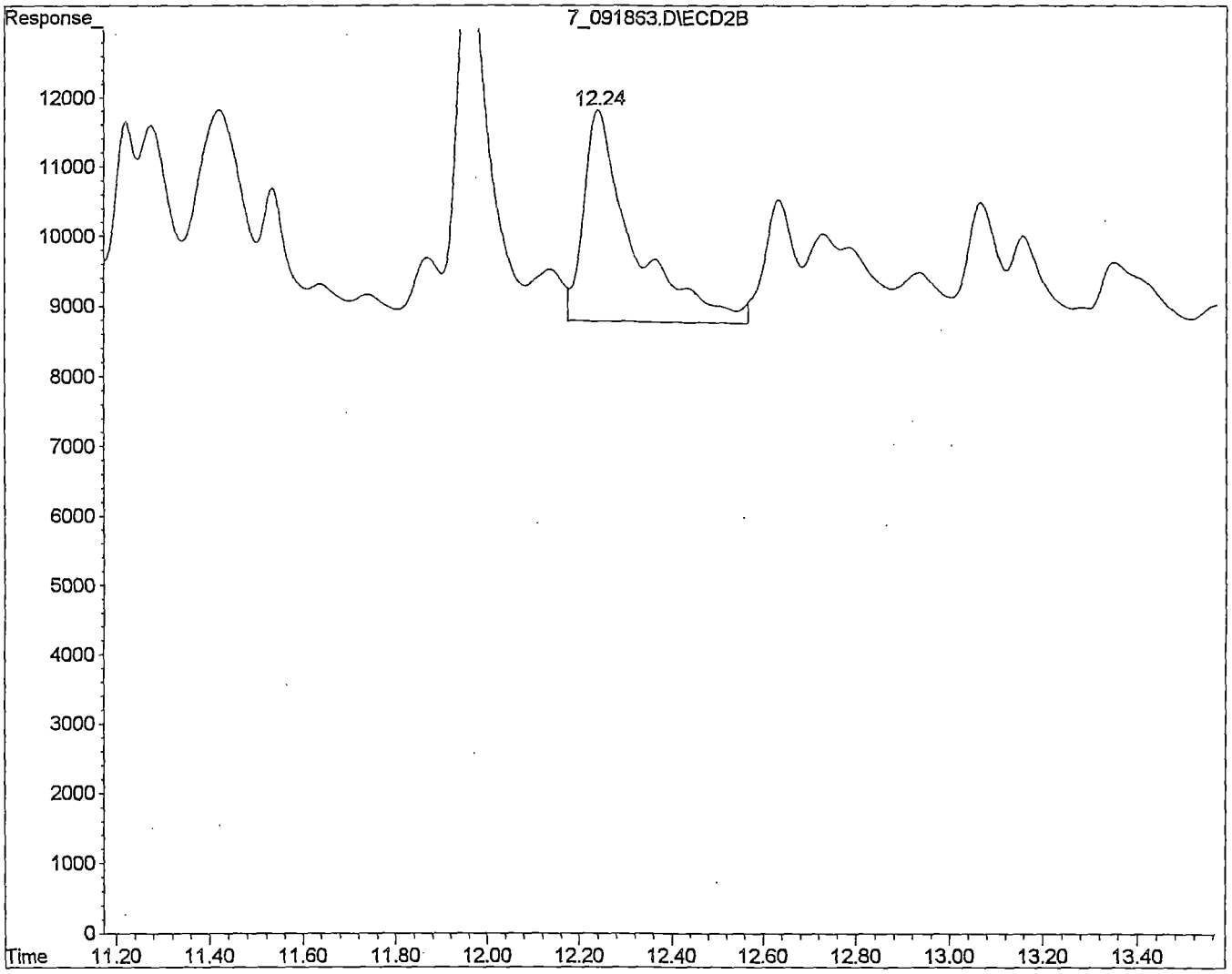
Integration Time Range: 9.47 - 9.55

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_19_01\7_091863.D
Report generated: Thu Sep 20 07:55:23 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091863.D
Date Acquired: 19 Sep 2001 8:41
Inst: HP_07 Operator ID: SA
Name: 47294.10 *E02S4 *
Misc: *EPA*30.9G/5.0ML*18
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 15:51 2001 Quant Results File: XPCBI18.RES



Aroclor-1254 {3} #2 12.24min area: 223294 m

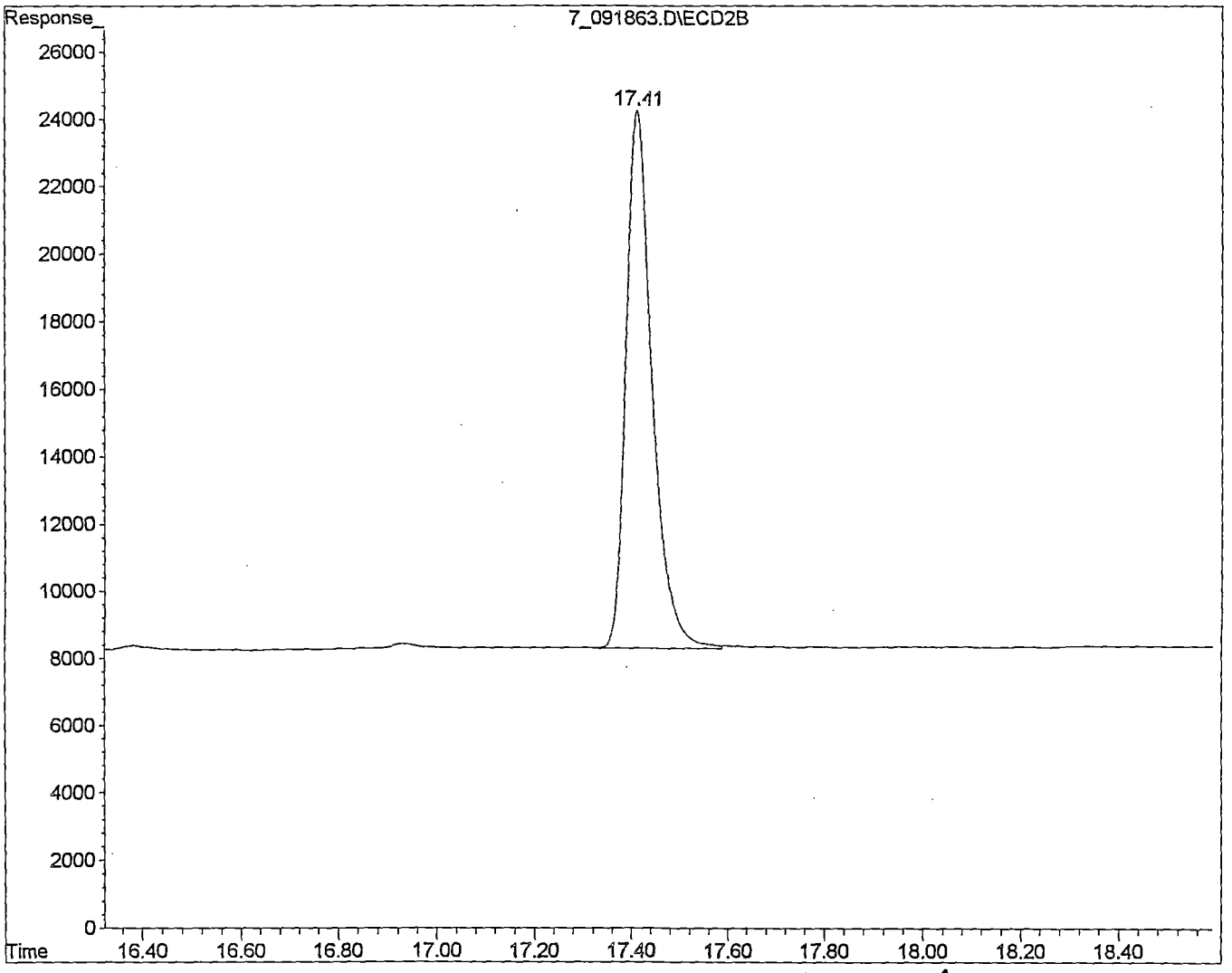
Integration Time Range: 12.17 - 12.57

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_19_01\7_091863.D
Report generated: Thu Sep 20 07:55:24 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091863.D
Date Acquired: 19 Sep 2001 8:41
Inst: HP_07 Operator ID: SA
Name: 47294.10 *E02S4 *
Misc: *EPA*30.9G/5.0ML*18
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 15:51 2001 Quant Results File: XPCBI18.RES



AG 9-20-01

DCB #2 17.41min area: 592409 m

Integration Time Range: 17.32 - 17.59

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_19_01\7_091863.D
Report generated: Thu Sep 20 07:55:25 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02S5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) SOIL Lab Sample ID: 47294.11

Sample wt/vol: 31.3 (g/mL) G Lab File ID:_____

% Moisture: 62 decanted: (Y/N) __ Date Received: 08/16/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/16/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/19/01

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	83	U
11104-28-2	Aroclor-1221	83	U
11141-16-5	Aroclor-1232	83	U
53469-21-9	Aroclor-1242	~~1200~~ 1200	D ~~P~~
12672-29-6	Aroclor-1248	83	U
11097-69-1	Aroclor-1254	560	
11096-82-5	Aroclor-1260	220	
Surrogate amount spiked		16.81	

TBS 10-9-01
apply this
results

FORM I PCB

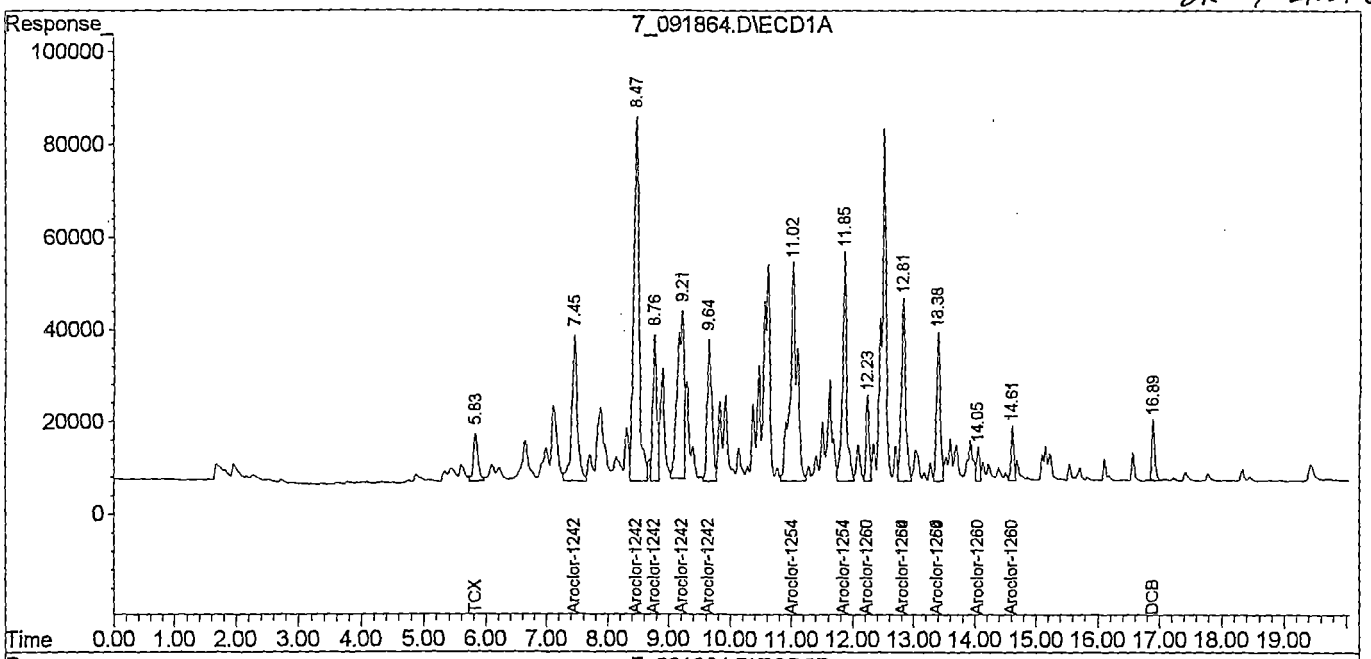
Chromatographic Report

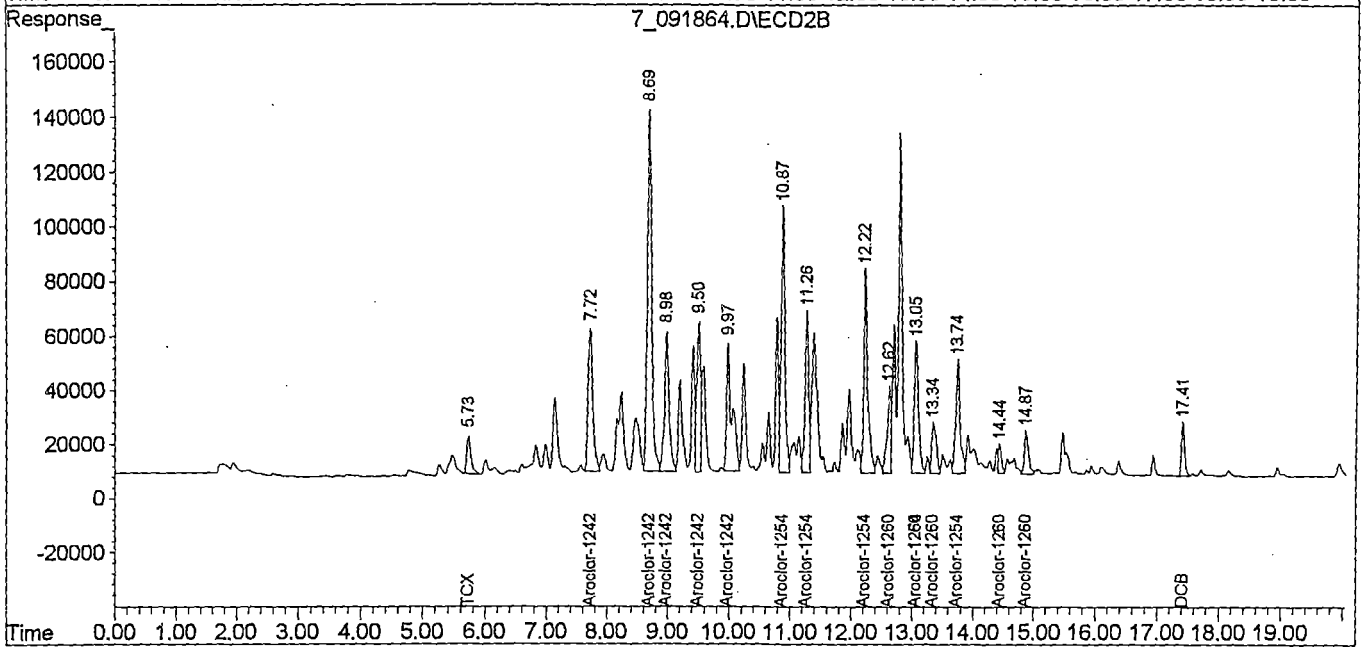
Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091864.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091864.D\ECD2B.CH
Acq On : 19 Sep 2001 9:05 Operator: SA
Sample : 47294.11 *E02S5 * Inst : HP_07
Misc : *EPA*31.3G/5.0ML*62 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 15:57 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

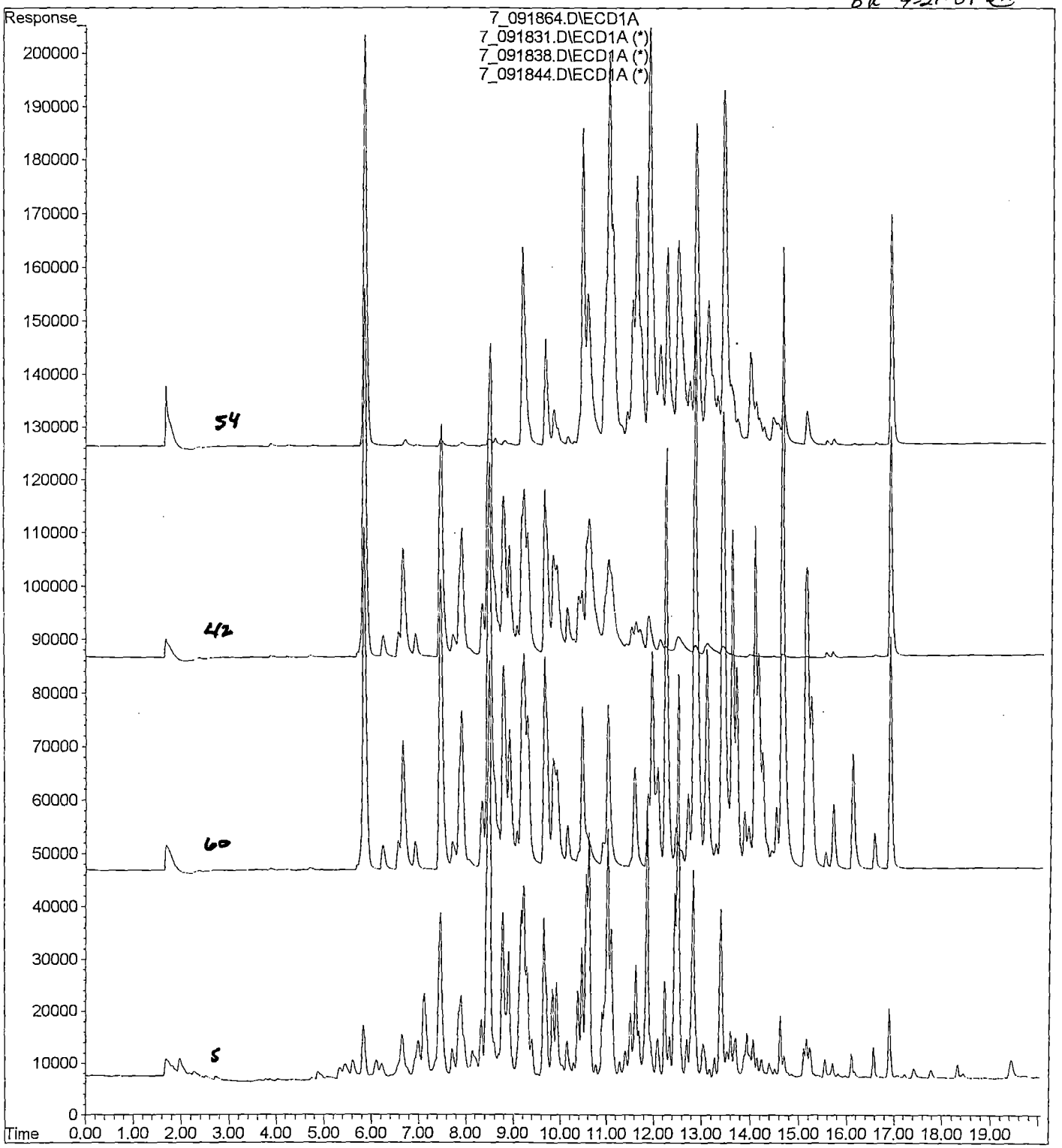
OK 9-21-01





File : F:\HPCHEM\HP\7\DATA\09_19_01\7_091864.D
Operator : SA
Acquired : 19 Sep 2001 9:05 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47294.11 *E02S5 *
Misc Info : *EPA*31.3G/5.0ML*62
Vial Number: 39

OK 9-21-01 RA



Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091864.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091864.D\ECD2B.CH
Acq On : 19 Sep 2001 9:05 Operator: SA
Sample : 47294.11 *E02S5 * Inst : HP_07
Misc : *EPA*31.3G/5.0ML*62 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 15:57 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

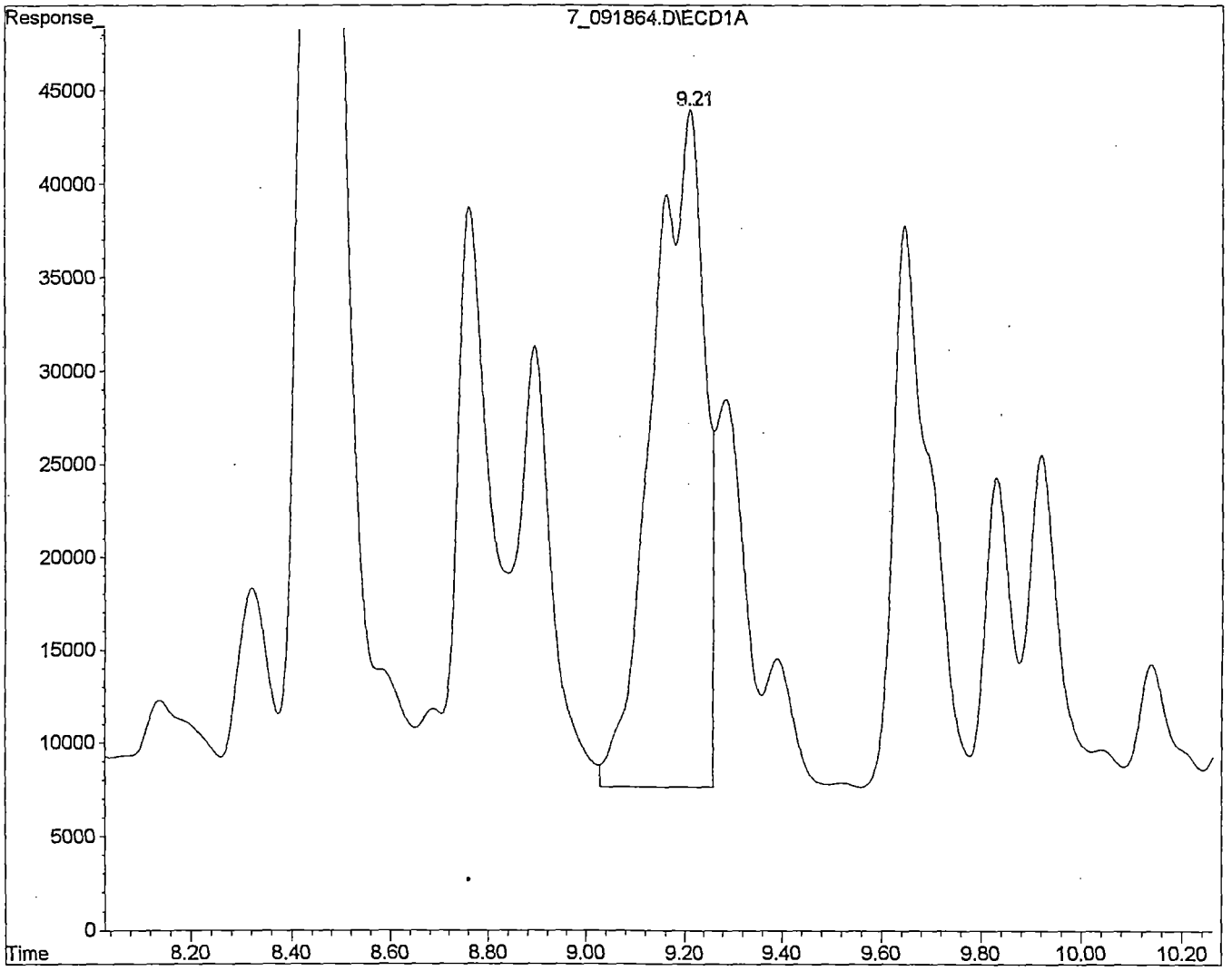
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	530657	690125	10.4	8.815
	Spiked Amount 16.815			Recovery	=	61.85%	52.42%
22)	S DCB	16.89	17.41	435234	719636	15.8	20.4m #
	Spiked Amount 16.815			Recovery	=	93.96%	121.32%
	Target Compounds:						
7)	L4 Aroclor-1242	7.45	7.72	1971345	2889831	898.6	931.4
8)	L4 Aroclor-1242 {2}	8.47	8.69	4729958	6684031	1673.9 E	2161.1 E#
9)	L4 Aroclor-1242 {3}	8.76	8.98	1453583	2749884	1028.7	1156.3
10)	L4 Aroclor-1242 {4}	9.21	9.50	2703347	2190745	1583.7mE	1510.2 E
11)	L4 Aroclor-1242 {5}	9.64	9.97	1623220	2921155	1024.0	1216.5m
	Sum Aroclor-1242			12481453	17435646	6208.9	6975.5
	Average Aroclor-1242					1241.777	1395.097
12)	L6 Aroclor-1254	0.00	10.87	0	4238997	N.D. d	1096.0 #
13)	L6 Aroclor-1254 {2}	11.02	11.26	3759644	2405569	655.6m	730.2
14)	L6 Aroclor-1254 {3}	11.85	12.22f	2220521	3315065	599.3	540.2
15)	L6 Aroclor-1254 {4}	12.82	13.05f	1884679	2431171	646.7	762.9
16)	L6 Aroclor-1254 {5}	13.38	13.74f	1374890	2034688	343.5	353.0
	Sum Aroclor-1254			9239734	14425489	2245.0	3482.3
	Average Aroclor-1254					561.255	696.464
17)	L7 Aroclor-1260	12.23	12.62	658180	1263861	209.2	251.1
18)	L7 Aroclor-1260 {2}	12.82	13.05	1884679	2431171	359.7	486.0 #
19)	L7 Aroclor-1260 {3}	13.38	13.34f	1374890	1011156	328.5	225.8m #
20)	L7 Aroclor-1260 {4}	14.05	14.44	256701	404048	132.8	134.1
21)	L7 Aroclor-1260 {5}	14.61	14.87	361381	718908	82.8	136.4 #
	Sum Aroclor-1260			4535833	5829144	935.8	1036.9
	Average Aroclor-1260					222.610	246.669

cds 9-20-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091864.D
Date Acquired: 19 Sep 2001 9:05
Inst: HP_07 Operator ID: SA
Name: 47294.11 *E02S5 *
Misc: *EPA*31.3G/5.0ML*62
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 15:57 2001 Quant Results File: XPCBI18.RES



09-20-01

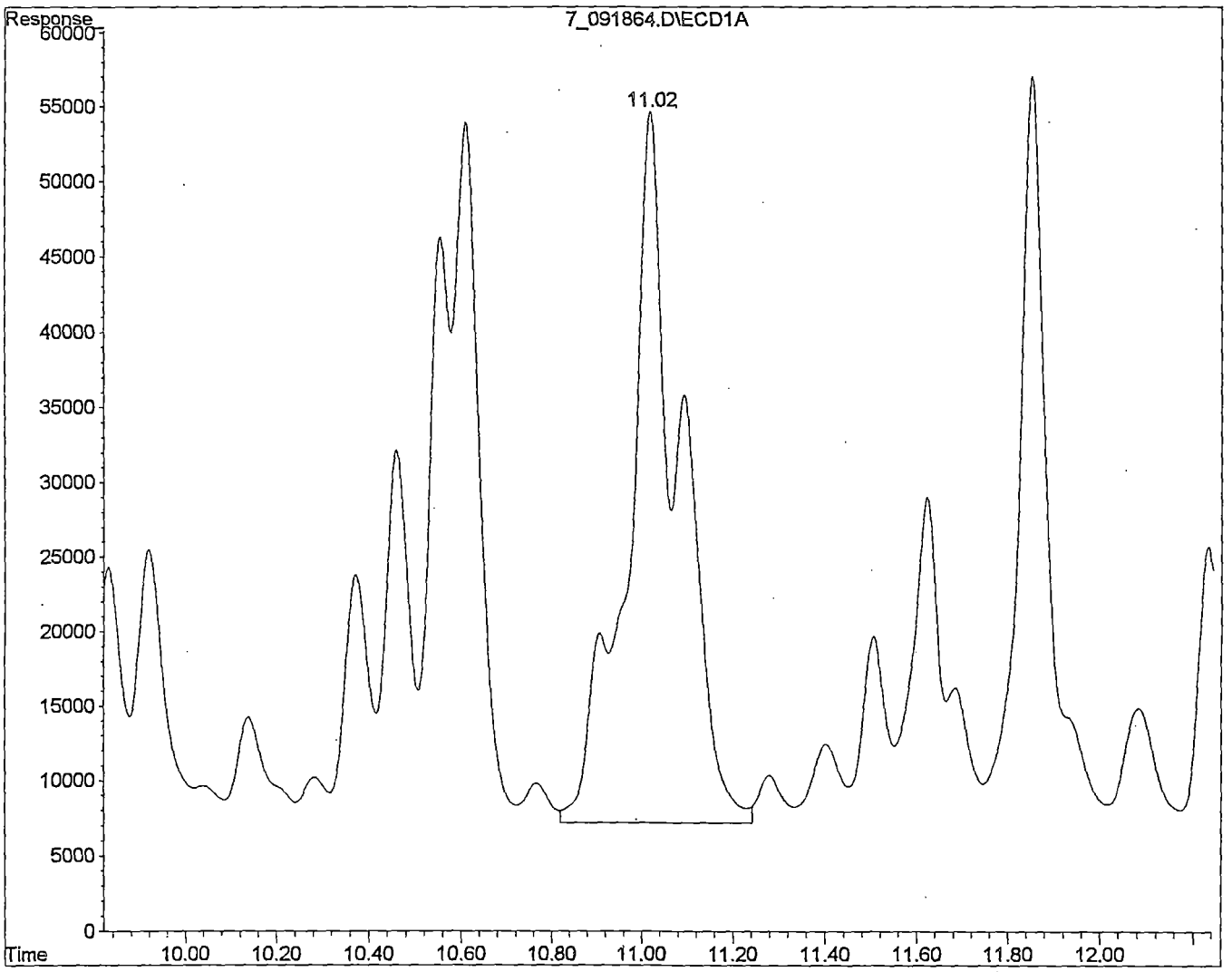
Aroclor-1242 {4} 9.21min area: 2703347 m

Integration Time Range: 9.03 - 9.26 OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_19_01\7_091864.D
Report generated: Thu Sep 20 07:55:26 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091864.D
Date Acquired: 19 Sep 2001 9:05
Inst: HP_07 Operator ID: SA
Name: 47294.11 *E02S5 *
Misc: *EPA*31.3G/5.0ML*62
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 15:57 2001 Quant Results File: XPCBI18.RES



AS 9-20-01

Aroclor-1254 {2} 11.02min area: 3759644 m

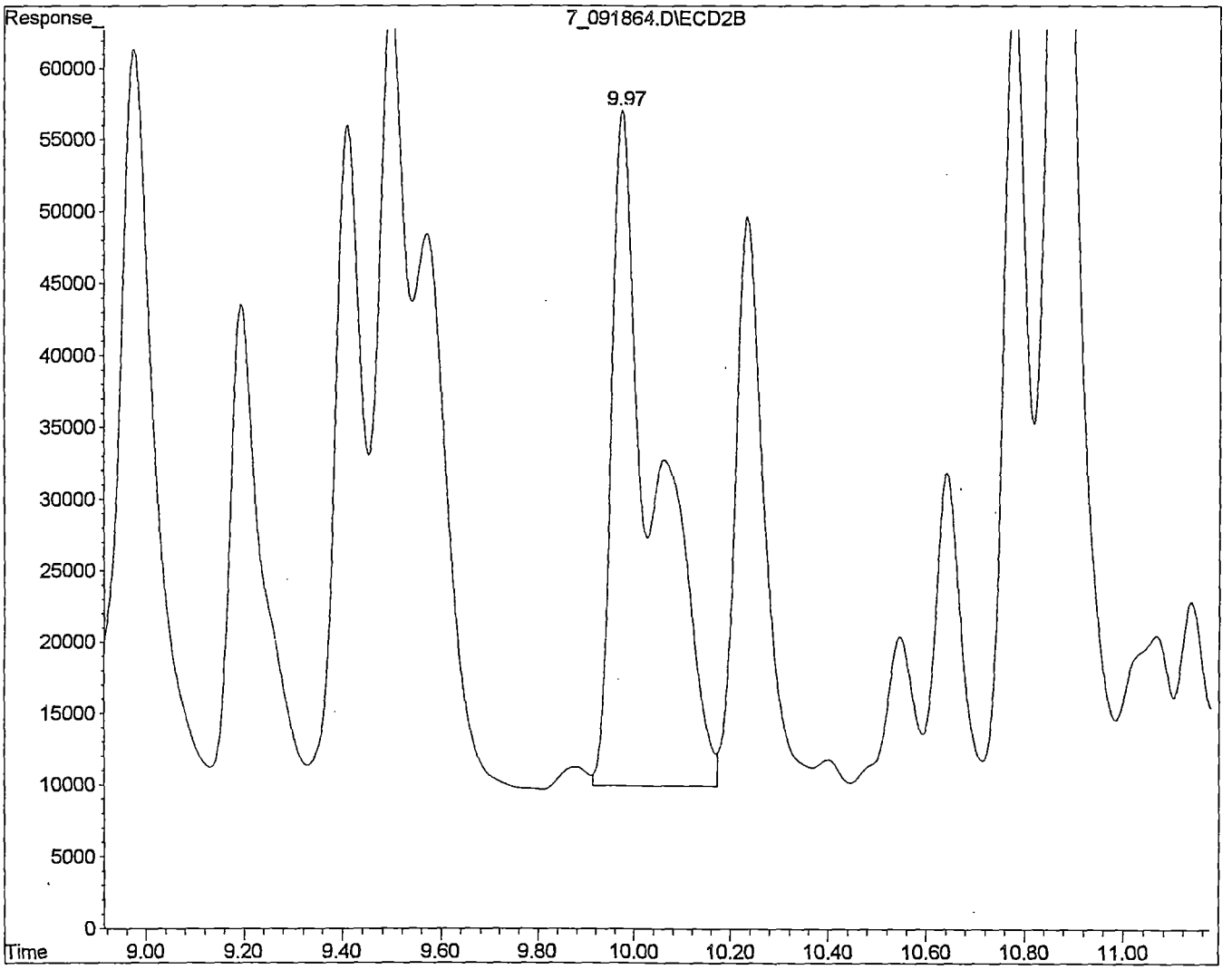
Integration Time Range: 10.82 - 11.24

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_19_01\7_091864.D
Report generated: Thu Sep 20 07:55:27 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091864.D
Date Acquired: 19 Sep 2001 9:05
Inst: HP_07 Operator ID: SA
Name: 47294.11 *E02S5 *
Misc: *EPA*31.3G/5.0ML*62
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 15:57 2001 Quant Results File: XPCBI18.RES



9-26-01

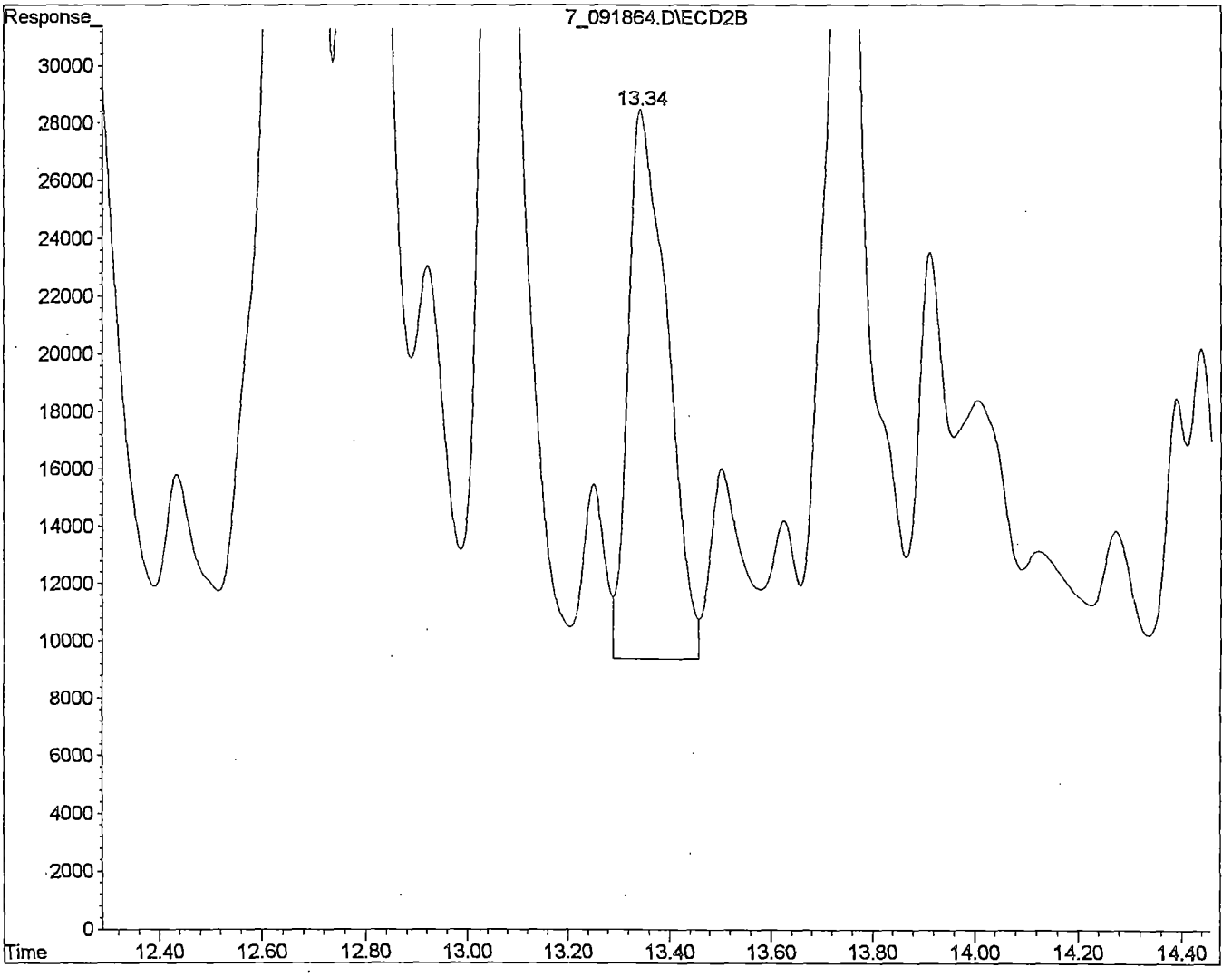
Aroclor-1242 {5} #2 9.97min area: 2921155 m

Integration Time Range: 9.91 - 10.17 ok 9-21-01

F:\HPCHEM\HP\7\DATA\09_19_01\7_091864.D
Report generated: Thu Sep 20 07:55:28 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091864.D
Date Acquired: 19 Sep 2001 9:05
Inst: HP_07 Operator ID: SA
Name: 47294.11 *E02S5 *
Misc: *EPA*31.3G/5.0ML*62
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 15:57 2001 Quant Results File: XPCBI18.RES



AS 9-20-01

Aroclor-1260 {3} #2 13.34min area: 1011156 m

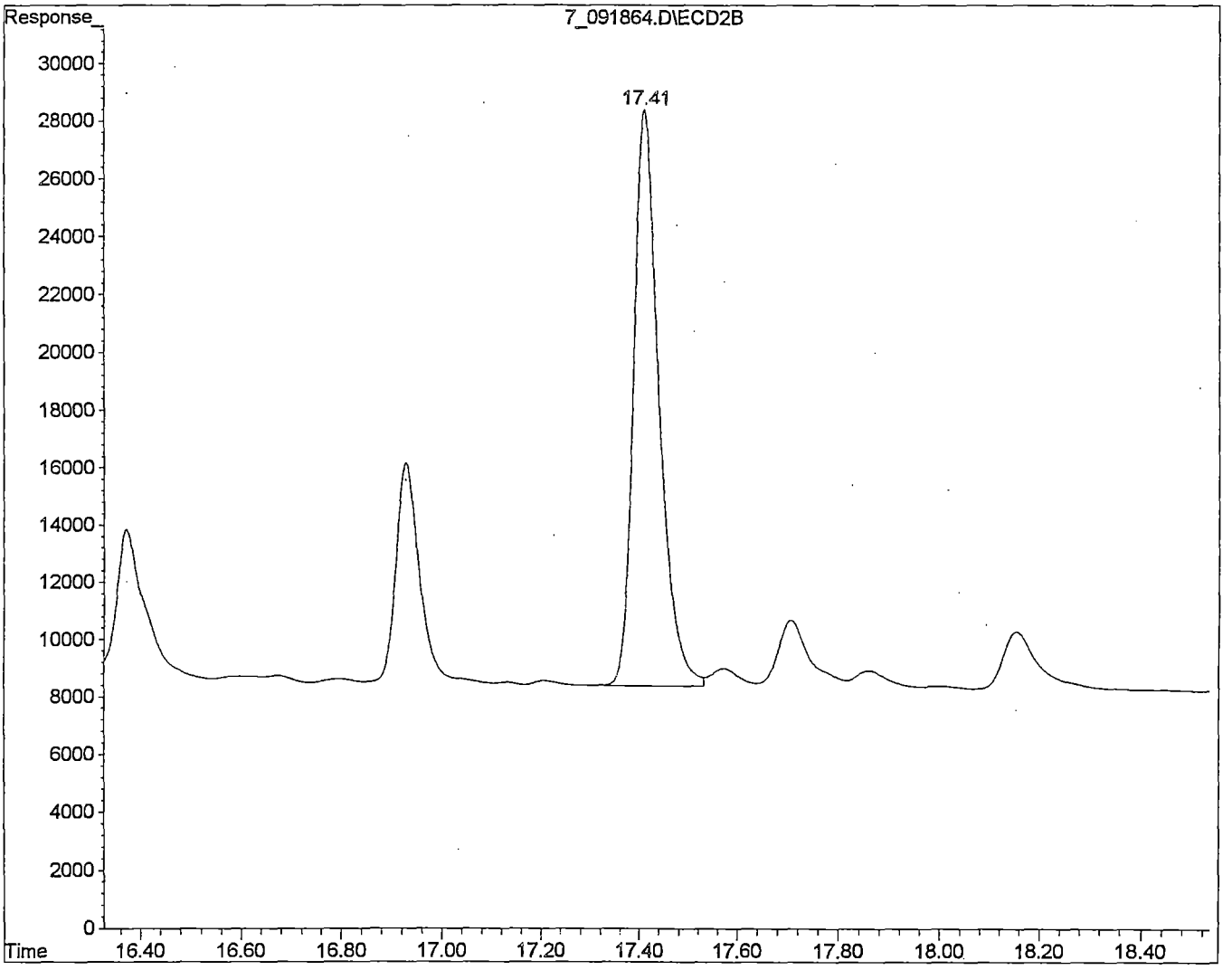
Integration Time Range: 13.29 - 13.46

OK 9-21-01 EM

F:\HPCHEM\HP\7\DATA\09_19_01\7_091864.D
Report generated: Thu Sep 20 07:55:29 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091864.D
Date Acquired: 19 Sep 2001 9:05
Inst: HP_07 Operator ID: SA
Name: 47294.11 *E02S5 *
Misc: *EPA*31.3G/5.0ML*62
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 15:57 2001 Quant Results File: XPCBI18.RES



CAG-20-01

DCB #2 17.41min area: 719636 m

Integration Time Range: 17.33 - 17.53

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_19_01\7_091864.D
Report generated: Thu Sep 20 07:55:30 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02S5DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) SOIL Lab Sample ID: 47294.11DL

Sample wt/vol: 31.3 (g/mL) G Lab File ID:_____

% Moisture: 62 decanted: (Y/N) __ Date Received: 08/16/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/16/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/20/01

Injection Volume: 0.5(uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	830	U
11104-28-2	Aroclor-1221	830	U
11141-16-5	Aroclor-1232	830	U
53469-21-9	Aroclor-1242	1200	D
12672-29-6	Aroclor-1248	830	U
11097-69-1	Aroclor-1254	540	DJ
11096-82-5	Aroclor-1260	230	DJ
Surrogate amount spiked		16.81	

FORM I PCB

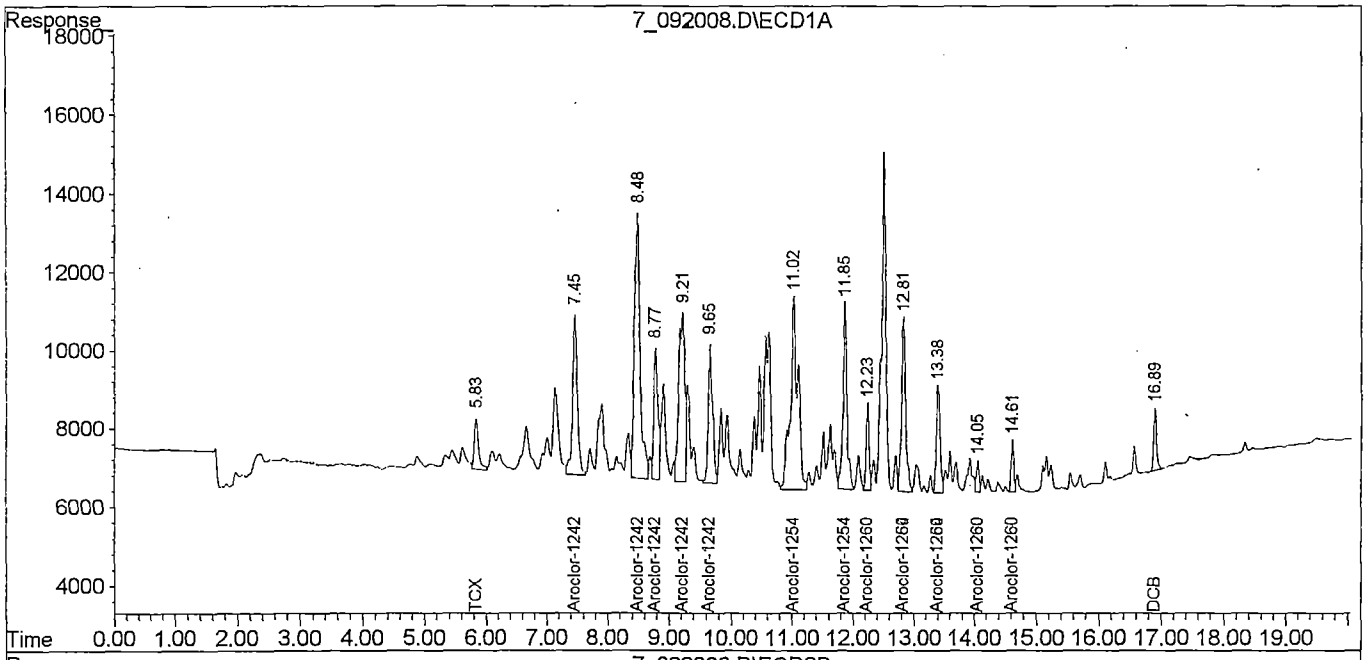
Chromatographic Report

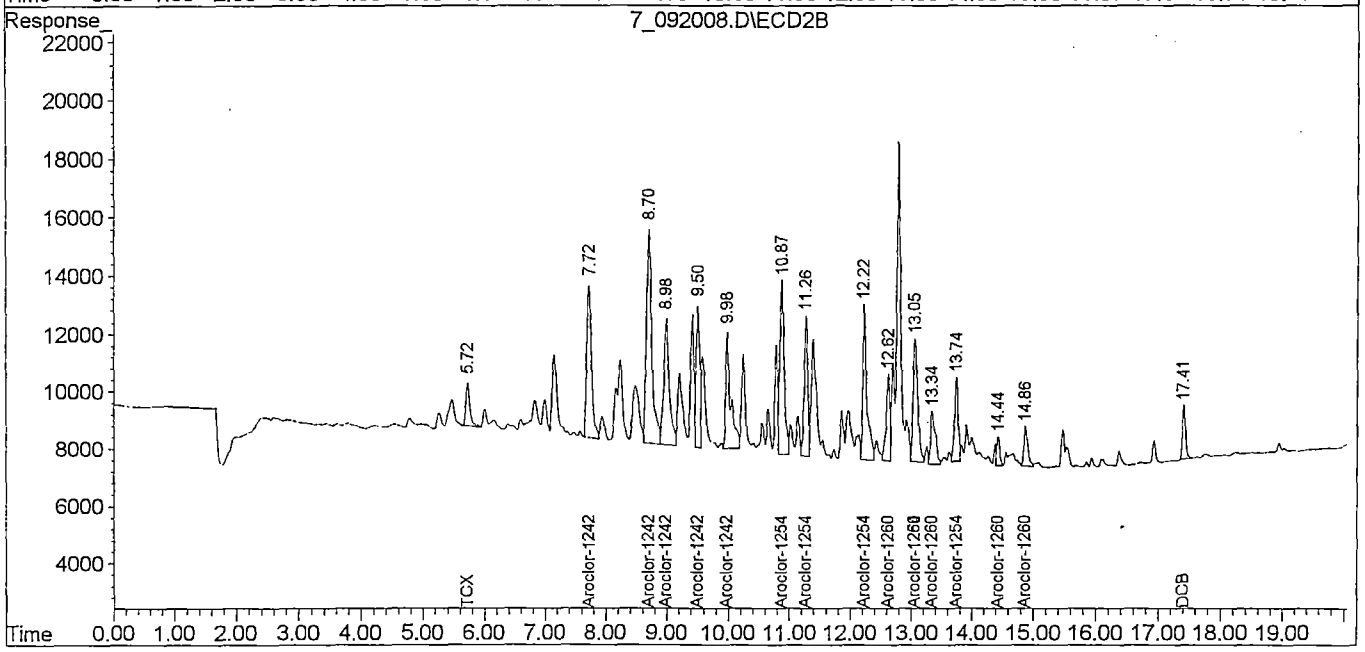
Signal #1 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092008.D\ECD1A.CH Vial: 100
Signal #2 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092008.D\ECD2B.CH
Acq On : 20 Sep 2001 10:16 Operator: SA
Sample : 47294.11DL *E02S5DL * Inst : HP_07
Misc : *EPA*31.3G/5.0ML*62 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 11:03 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

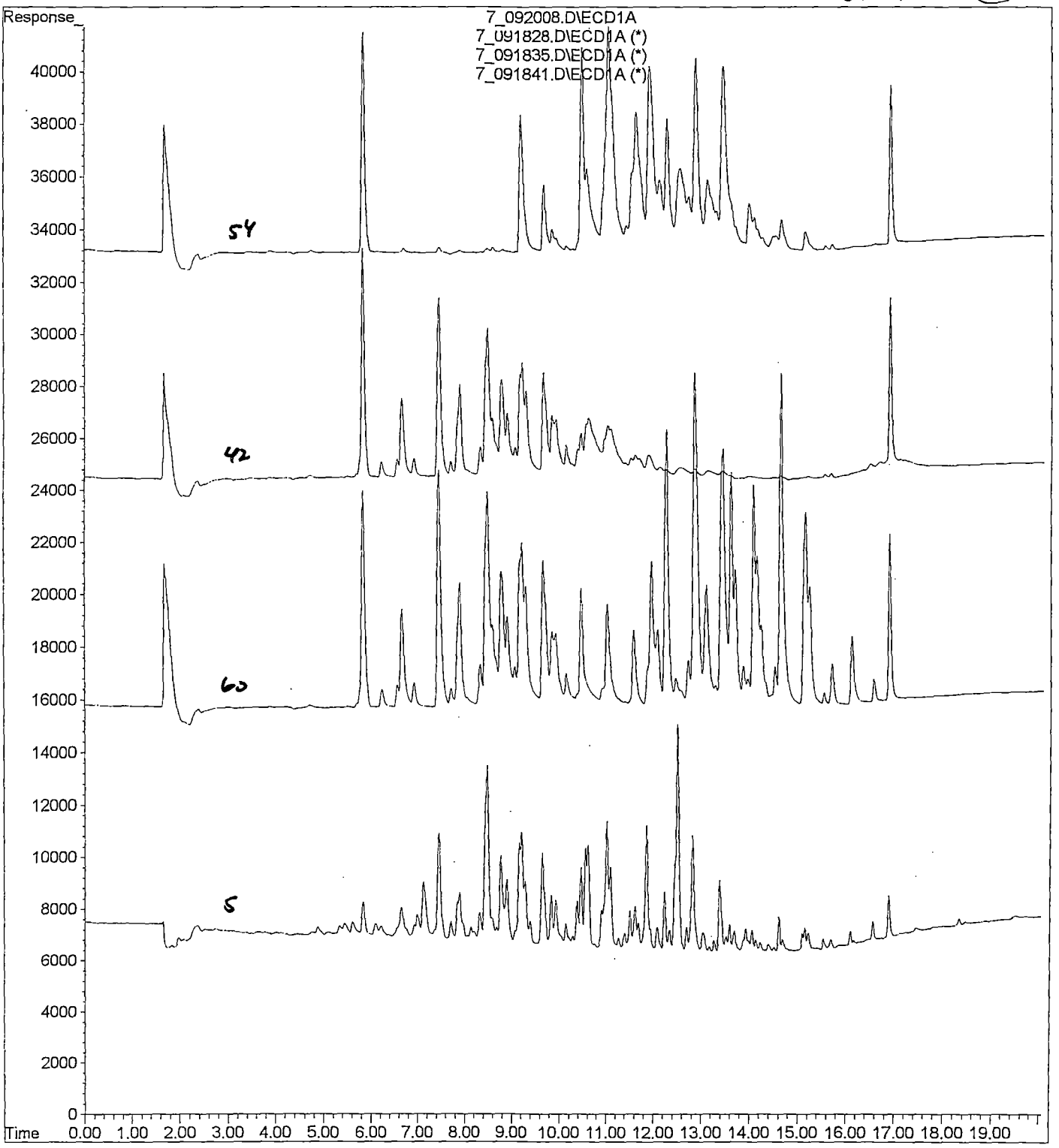
OK 9-21-01





File : F:\HPCHEM\HP\7\DATA\09_20_01\7_092008.D
Operator : SA
Acquired : 20 Sep 2001 10:16 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47294.11DL
Misc Info :
Vial Number: 100

OK 9-21-01



Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092008.D\ECD1A.CH Vial: 100
Signal #2 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092008.D\ECD2B.CH
Acq On : 20 Sep 2001 10:16 Operator: SA
Sample : 47294.11DL *E02S5DL * Inst : HP_07
Misc : *EPA*31.3G/5.0ML*62 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 11:03 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

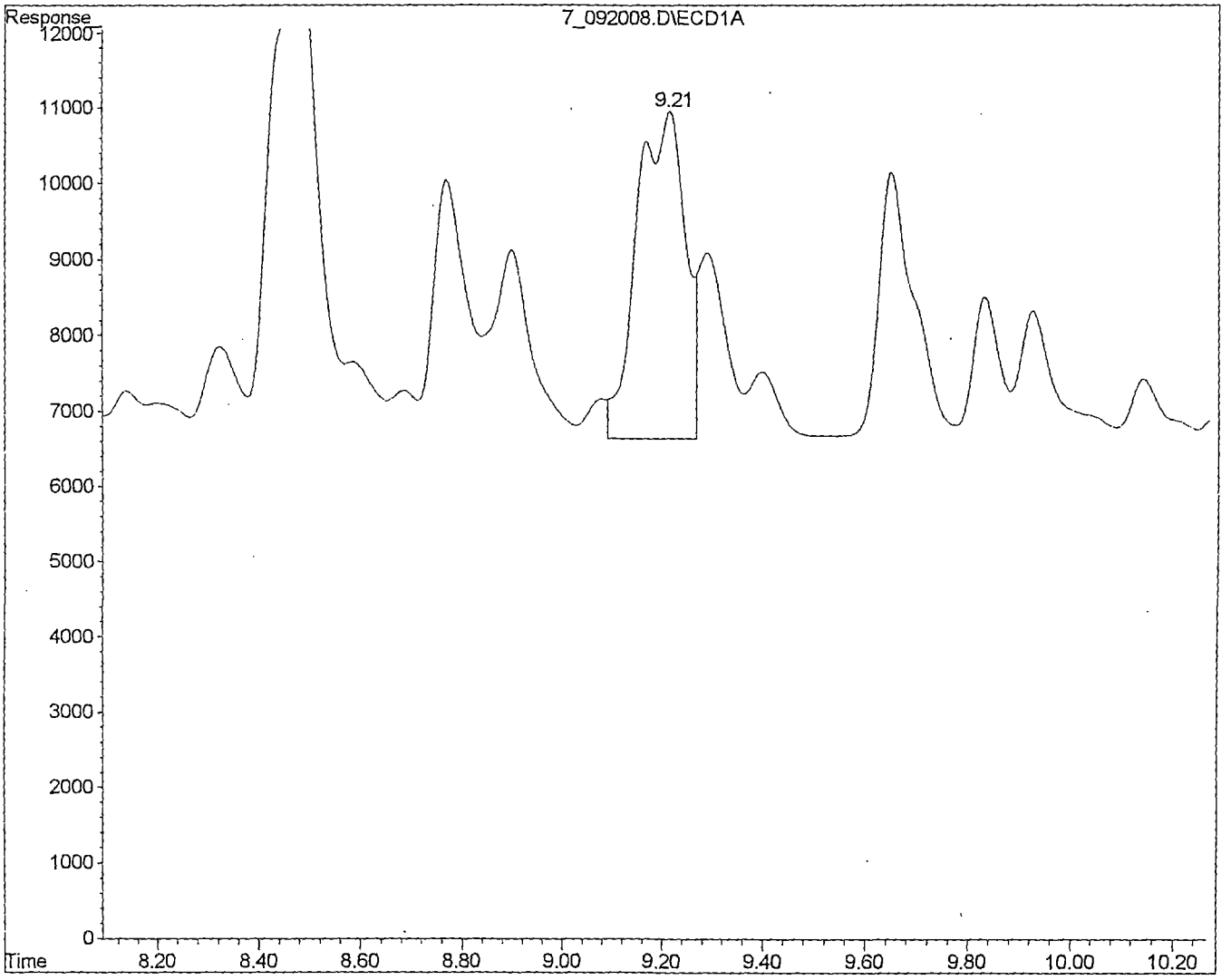
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.83	5.72	65522	67159	12.7	9.396	#
	Spiked Amount 16.815			Recovery	=	75.53%	55.88%	
22)	S DCB	16.89	17.41	51061	64028	19.4	18.4	
	Spiked Amount 16.815			Recovery	=	115.37%	109.42%	
	Target Compounds:							
7)	L4 Aroclor-1242	7.45	7.72	227661	292307	1037.7	942.1	
8)	L4 Aroclor-1242 {2}	8.48	8.70	444185	462840	1571.9	1496.5	
9)	L4 Aroclor-1242 {3}	8.77	8.98	153377	281562	1085.5	1183.9	
10)	L4 Aroclor-1242 {4}	9.21	9.50	289901	198978	1698.3m	1371.7	
11)	L4 Aroclor-1242 {5}	9.65	9.98	174181	228555	1098.8	951.8m	
	Sum Aroclor-1242			1289305	1464241	6492.3	5946.0	
	Average Aroclor-1242					1298.453	1189.192	
12)	L6 Aroclor-1254	0.00	10.87	0	302962	N.D. d	783.3	#
13)	L6 Aroclor-1254 {2}	11.02	11.26	415370	195267	724.3m	592.7	
14)	L6 Aroclor-1254 {3}	11.85	12.22f	215572	255707	581.8	416.7	#
15)	L6 Aroclor-1254 {4}	12.82	13.05f	211707	224465	726.4	704.4	
16)	L6 Aroclor-1254 {5}	13.38	13.74f	114790	125335	286.8	217.4m	
	Sum Aroclor-1254			957440	1103735	2319.3	2714.5	
	Average Aroclor-1254					579.820	542.910	
17)	L7 Aroclor-1260	12.23	12.62	76679	123950	243.7	246.3	
18)	L7 Aroclor-1260 {2}	12.82	13.05	211707	224465	404.1	448.7	
19)	L7 Aroclor-1260 {3}	13.38	13.34f	114790	95583	274.3	213.5m	
20)	L7 Aroclor-1260 {4}	14.05	14.44	26642	32693	137.8	108.5	
21)	L7 Aroclor-1260 {5}	14.61	14.86	38906	59881	89.2	113.6	#
	Sum Aroclor-1260			468725	536573	9660.8	9504.8	
	Average Aroclor-1260					229.812	226.100	

cds-20-1

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_20_01\7_092008.D
Date Acquired: 20 Sep 2001 10:16
Inst: HP_07 Operator ID: SA
Name: 47294.11DL *E02S5DL *
Misc: *EPA*31.3G/5.0ML*62
Method: F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 11:03 2001 Quant Results File: XPCBI18.RES



9-20-01

Aroclor-1242 {4} 9.21min area: 289901 m

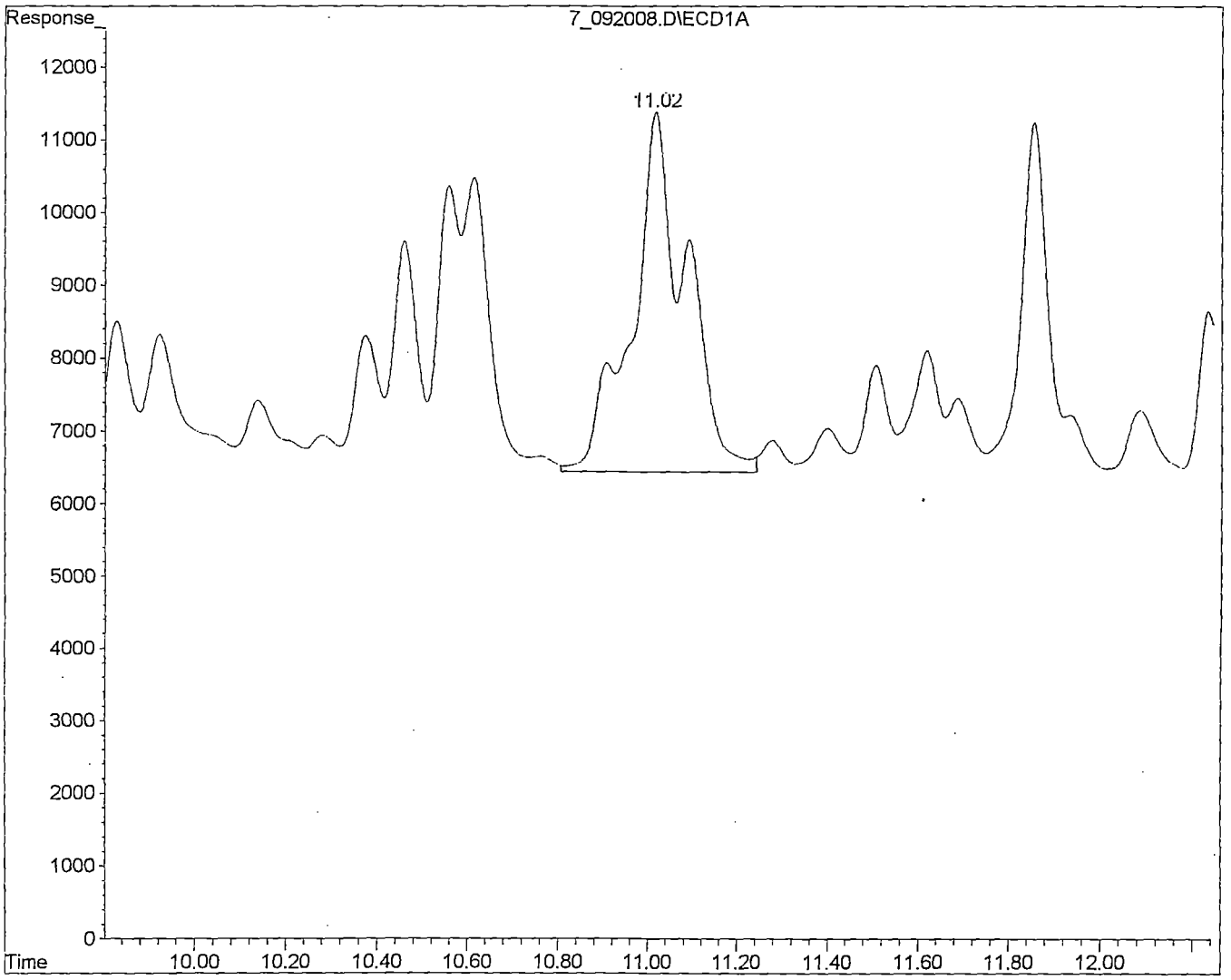
Integration Time Range: 9.09 - 9.27

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_20_01\7_092008.D
Report generated: Thu Sep 20 11:04:28 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_20_01\7_092008.D
Date Acquired: 20 Sep 2001 10:16
Inst: HP_07 Operator ID: SA
Name: 47294.11DL *E02S5DL *
Misc: *EPA*31.3G/5.0ML*62
Method: F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 11:03 2001 Quant Results File: XPCBI18.RES



Aroclor-1254 {2} 11.02min area: 415370 m

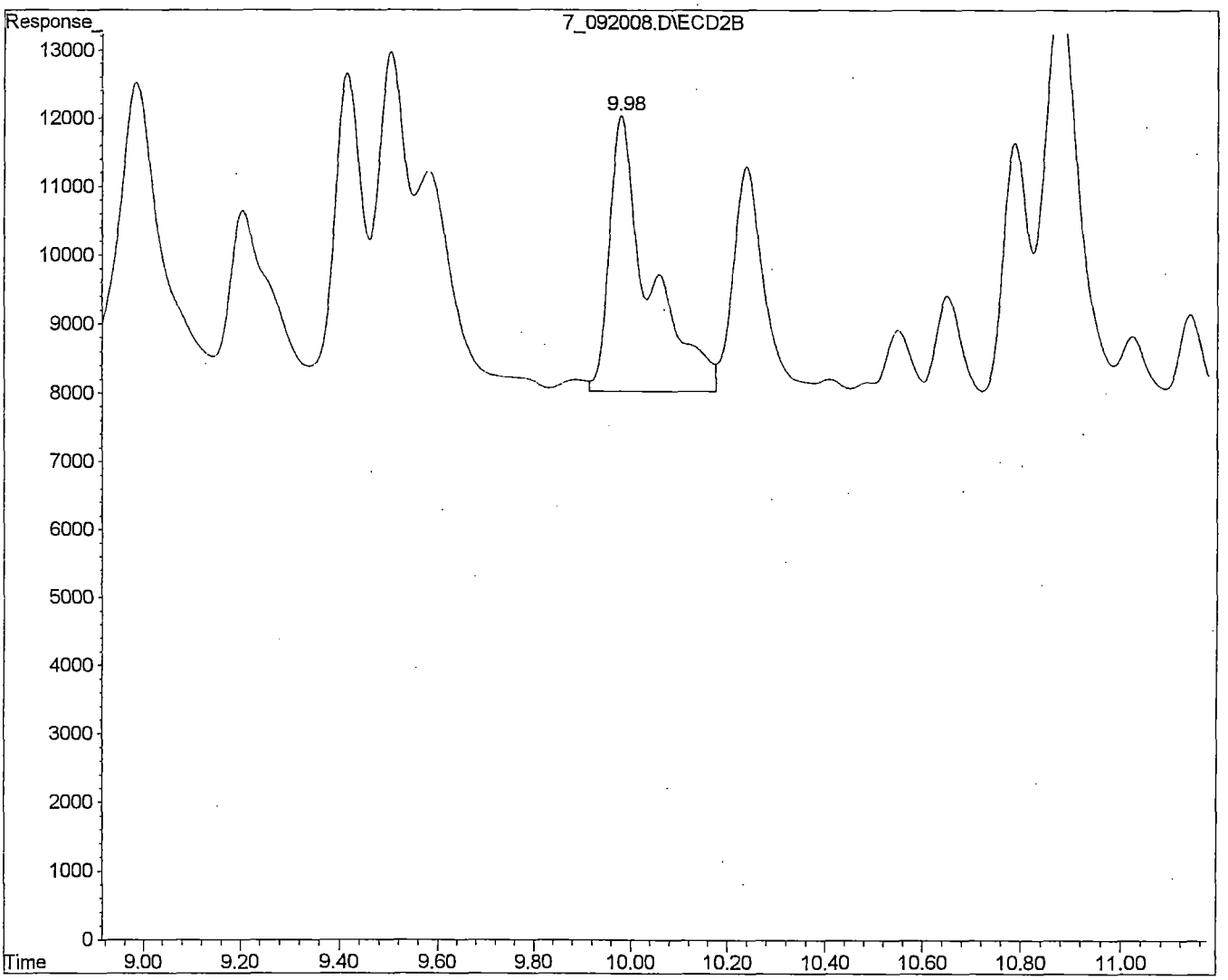
Integration Time Range: 10.80 - 11.24

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_20_01\7_092008.D
Report generated: Thu Sep 20 11:04:29 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_20_01\7_092008.D
Date Acquired: 20 Sep 2001 10:16
Inst: HP_07 Operator ID: SA
Name: 47294.11DL *E02S5DL *
Misc: *EPA*31.3G/5.0ML*62
Method: F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 11:03 2001 Quant Results File: XPCBI18.RES



A 9-20-01

Aroclor-1242 {5} #2 9.98min area: 228555 m

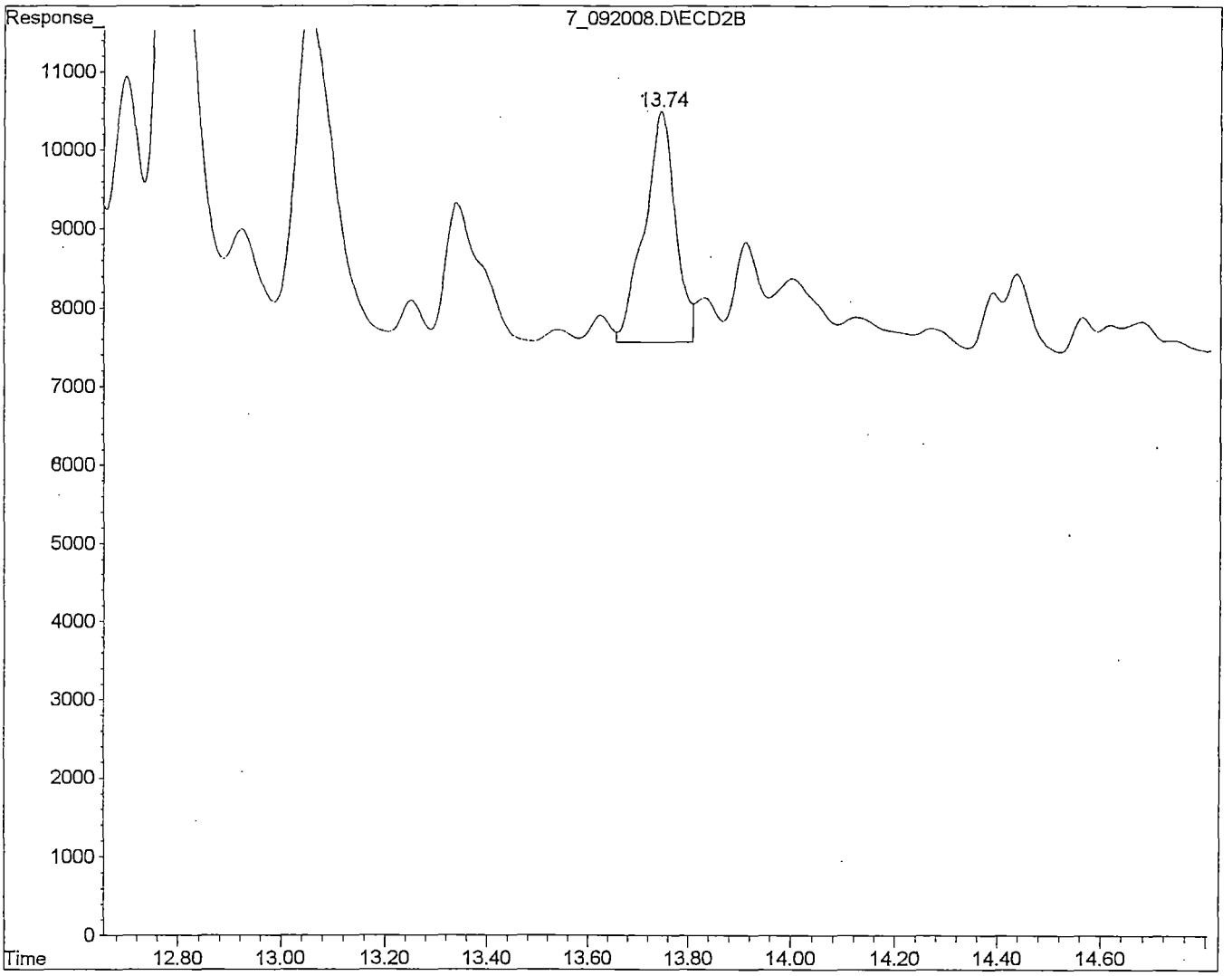
Integration Time Range: 9.91 - 10.17

OK 9-21-01 EP

F:\HPCHEM\HP\7\DATA\09_20_01\7_092008.D
Report generated: Thu Sep 20 11:04:30 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_20_01\7_092008.D
Date Acquired: 20 Sep 2001 10:16
Inst: HP_07 Operator ID: SA
Name: 47294.11DL *E02S5DL *
Misc: *EPA*31.3G/5.0ML*62
Method: F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 11:03 2001 Quant Results File: XPCBI18.RES



CA 9-20-01

Aroclor-1254 {5} #2 13.74min area: 125335 m

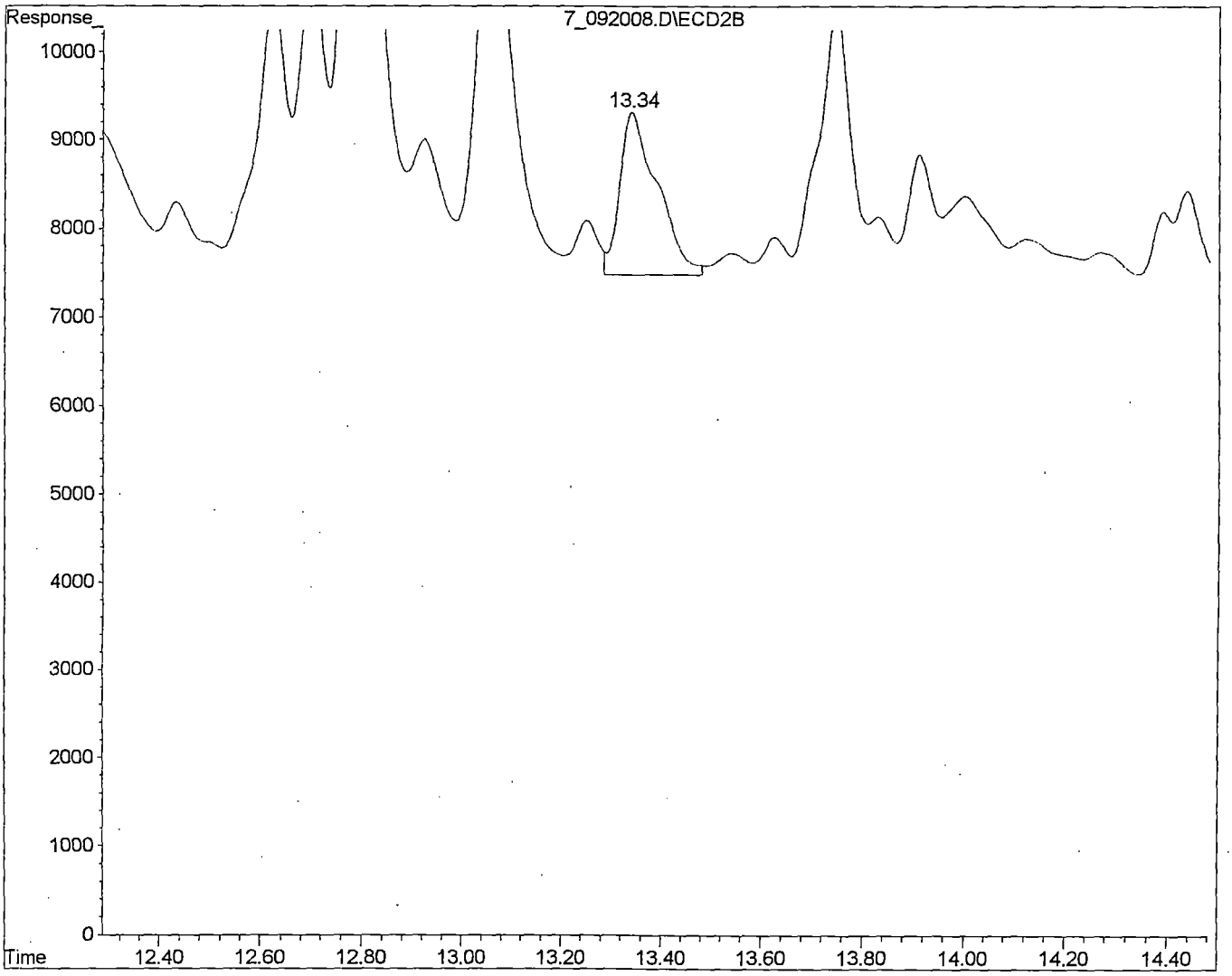
Integration Time Range: 13.65 - 13.81

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_20_01\7_092008.D
Report generated: Thu Sep 20 11:04:30 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_20_01\7_092008.D
Date Acquired: 20 Sep 2001 10:16
Inst: HP_07 Operator ID: SA
Name: 47294.11DL *E02S5DL *
Misc: *EPA*31.3G/5.0ML*62
Method: F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 11:03 2001 Quant Results File: XPCBI18.RES



09-20-01

Aroclor-1260 {3} #2 13.34min area: 95583 m

Integration Time Range: 13.29 - 13.48

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_20_01\7_092008.D
Report generated: Thu Sep 20 11:04:31 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02S6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) SOIL Lab Sample ID: 47294.12

Sample wt/vol: 31.2 (g/mL) G Lab File ID:_____

% Moisture: 58 decanted: (Y/N) __ Date Received: 08/16/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/16/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/19/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	76	U
11104-28-2	Aroclor-1221	76	U
11141-16-5	Aroclor-1232	76	U
53469-21-9	Aroclor-1242	76	U
12672-29-6	Aroclor-1248	76	U
11097-69-1	Aroclor-1254	76	U
11096-82-5	Aroclor-1260	17	J
Surrogate amount spiked		15.27	

FORM I PCB

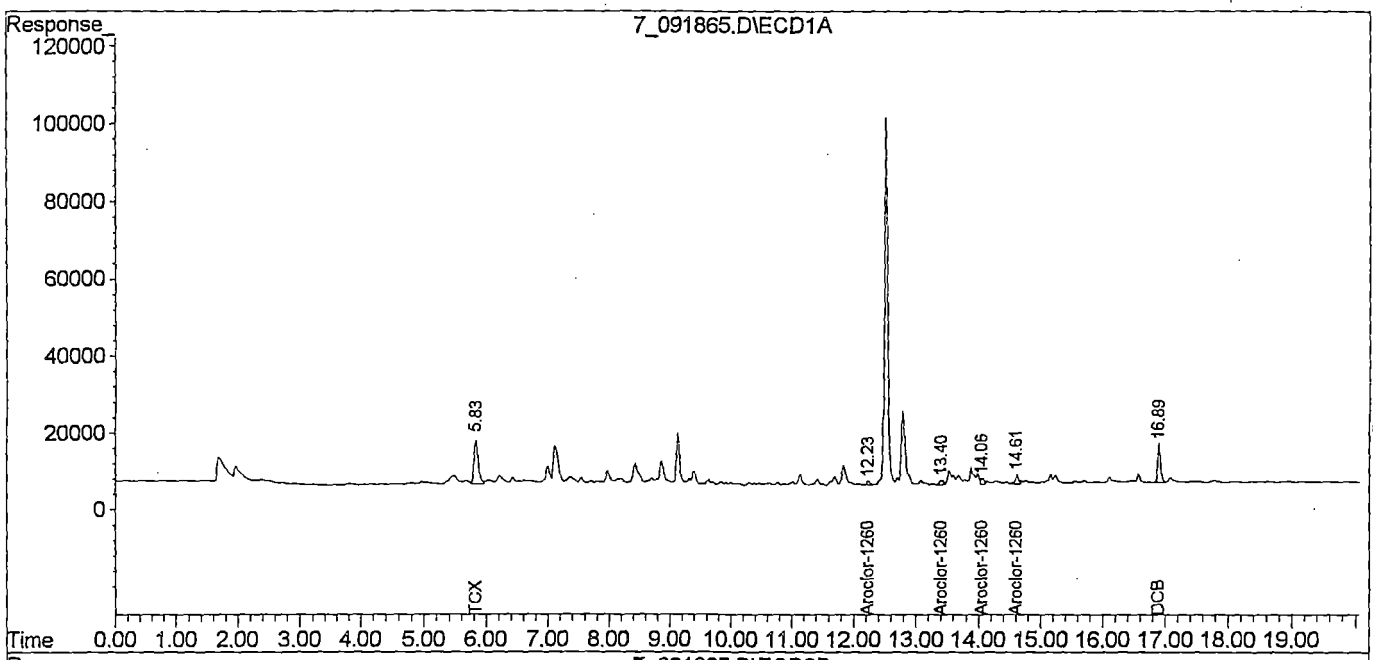
Chromatographic Report

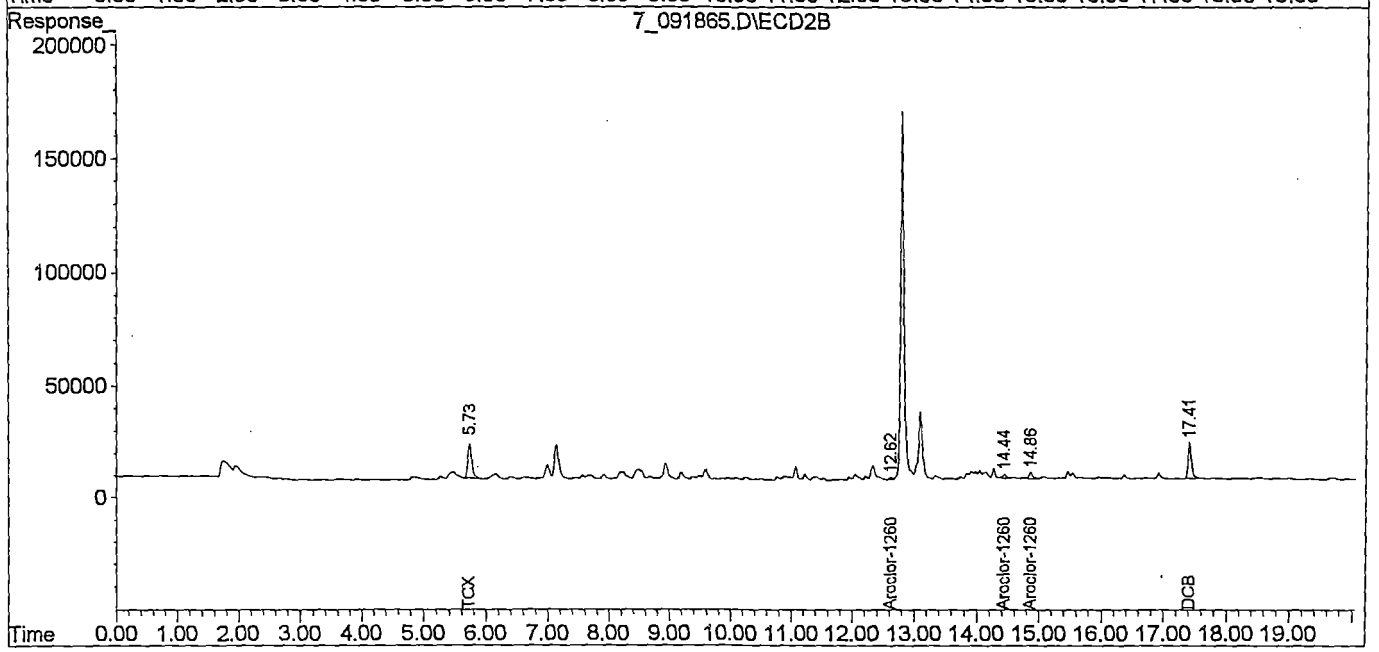
Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091865.D\ECD1A.CH Vial: 40
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091865.D\ECD2B.CH
Acq On : 19 Sep 2001 9:30 Operator: SA
Sample : 47294.12 *E02S6 * Inst : HP_07
Misc : *EPA*31.2G/5.0ML*58 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 7:37 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

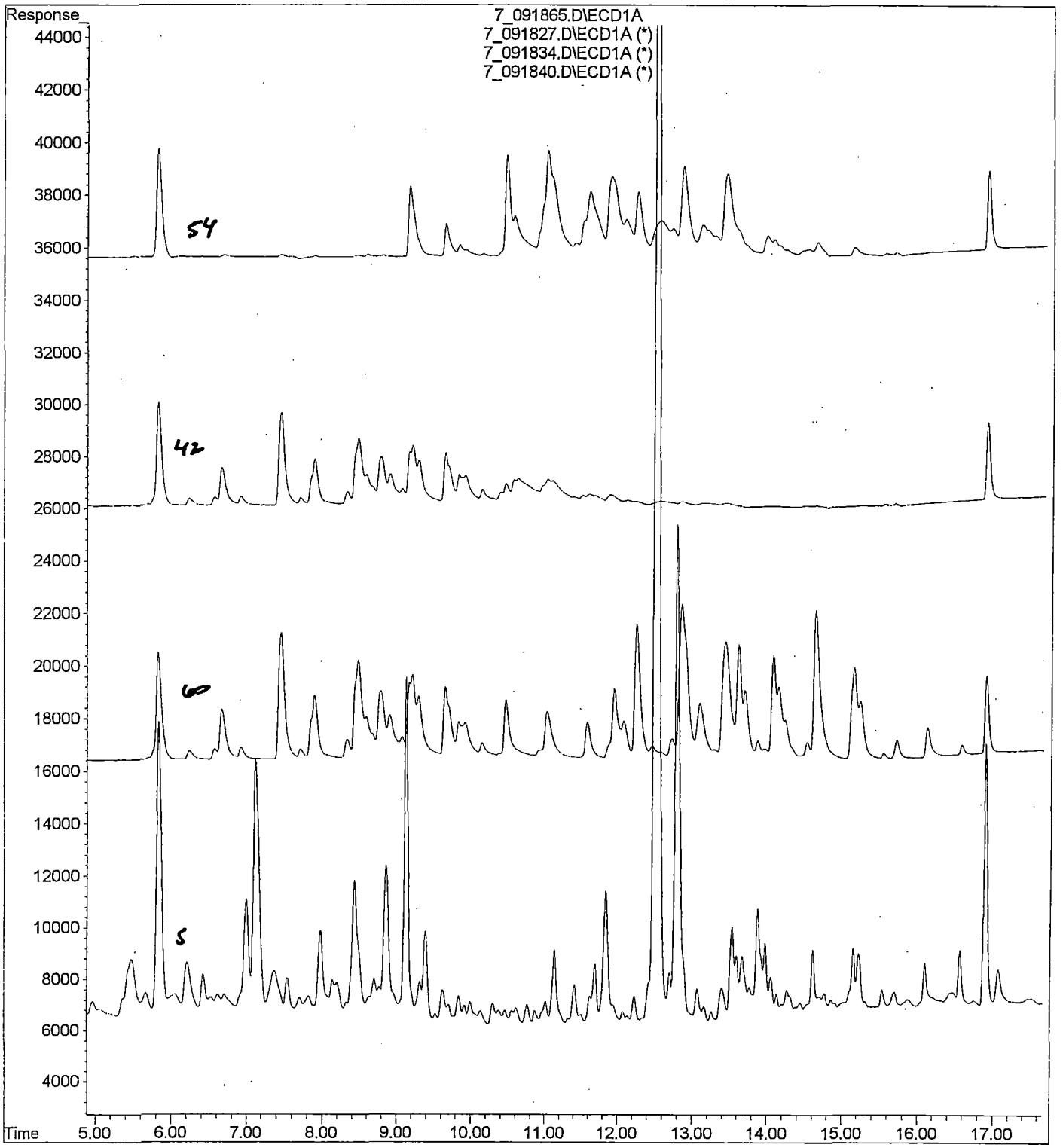
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-21-01





File : F:\HPCHEM\HP\7\DATA\09_19_01\7_091865.D
Operator : SA
Acquired : 19 Sep 2001 9:30 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47294.12 *E02S6 *
Misc Info : *EPA*31.2G/5.0ML*58
Vial Number: 40



Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091865.D\ECD1A.CH Vial: 40
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091865.D\ECD2B.CH
Acq On : 19 Sep 2001 9:30 Operator: SA
Sample : 47294.12 *E02S6 * Inst : HP_07
Misc : *EPA*31.2G/5.0ML*58 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 7:37 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.83	5.73	543150	728792	9.625	8.449	
	Spiked Amount 15.263			Recovery	=	63.06%	55.36%	
22)	S DCB	16.89	17.41	314744	574546	10.3	14.8	#
	Spiked Amount 15.263			Recovery	=	67.49%	96.97%	
	Target Compounds:							
17)	L7 Aroclor-1260	12.23	12.62	35509	31259	10.2	5.638	#
19)	L7 Aroclor-1260 {3}	13.40	0.00	61404	0	13.3	N.D.	#
20)	L7 Aroclor-1260 {4}	14.06	14.44	53847	79229	25.3	23.9	
21)	L7 Aroclor-1260 {5}	14.61	14.86	99628	119065	20.7	20.5	
	Sum Aroclor-1260			250388	229553	53.1	38.2	
	Average Aroclor-1260					17.393	16.666	

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02S7

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) SOIL Lab Sample ID: 47294.13

Sample wt/vol: 31.3 (g/mL) G Lab File ID:_____

% Moisture: 60 decanted: (Y/N) __ Date Received: 08/16/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/16/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/19/01

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	79	U
11104-28-2	Aroclor-1221	79	U
11141-16-5	Aroclor-1232	79	U
53469-21-9	Aroclor-1242	79	U
12672-29-6	Aroclor-1248	79	U
11097-69-1	Aroclor-1254	79	U
11096-82-5	Aroclor-1260	79	U
	Surrogate amount spiked	15.98	

FORM I PCB

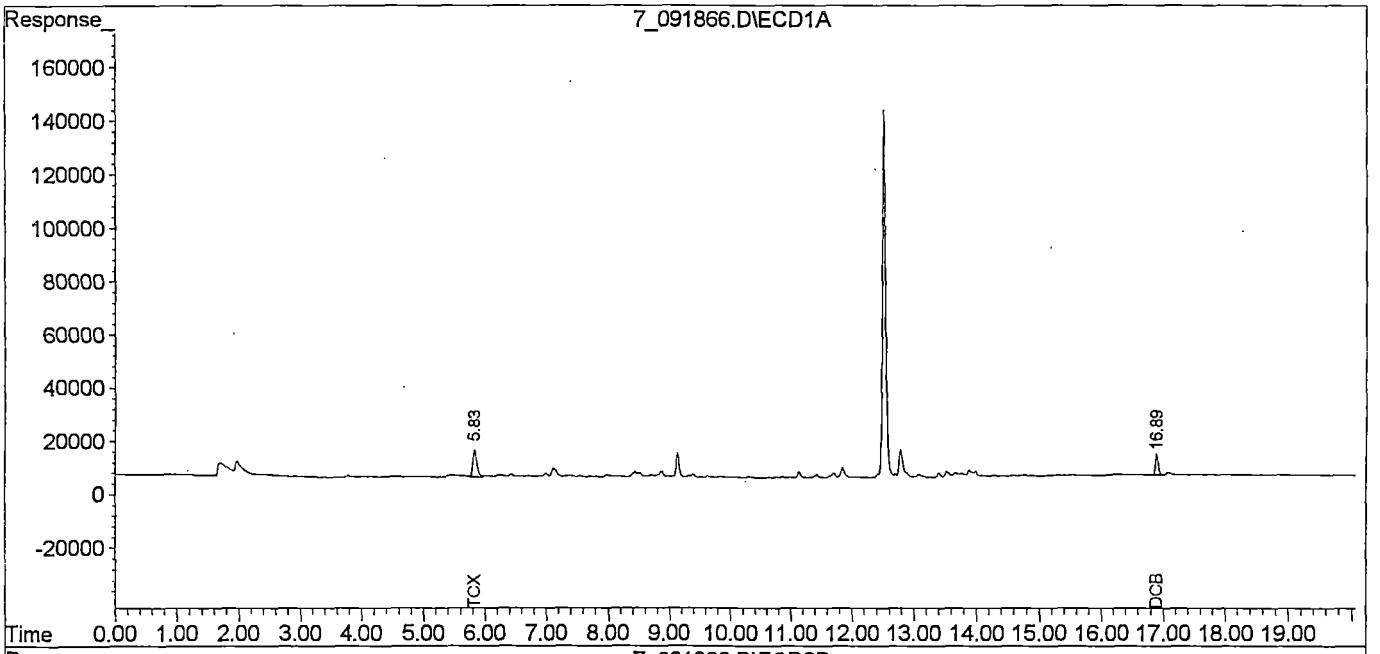
Chromatographic Report

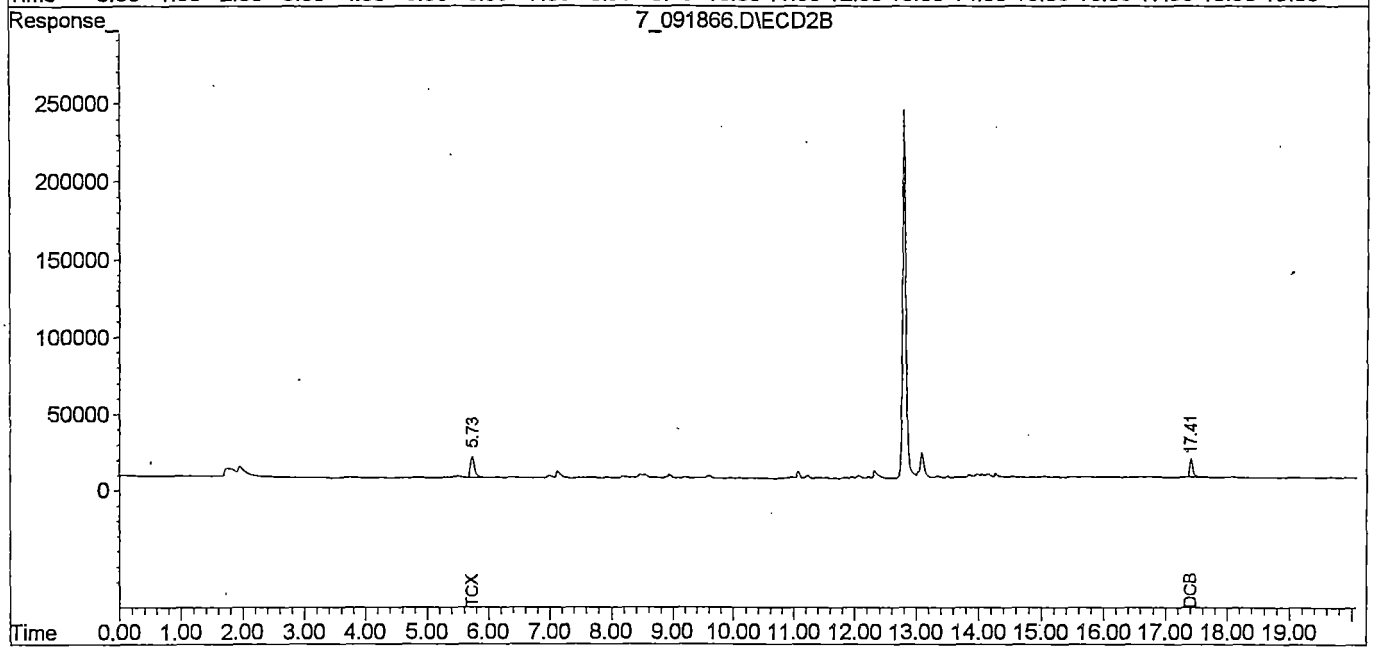
Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091866.D\ECD1A.CH Vial: 41
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091866.D\ECD2B.CH
Acq On : 19 Sep 2001 9:54 Operator: SA
Sample : 47294.13 *E02S7 * Inst : HP_07
Misc : *EPA*31.3G/5.0ML*60 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 7:42 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-21-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091866.D\ECD1A.CH Vial: 41
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091866.D\ECD2B.CH
Acq On : 19 Sep 2001 9:54 Operator: SA
Sample : 47294.13 *E02S7 * Inst : HP_07
Misc : *EPA*31.3G/5.0ML*60 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 7:42 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.83	5.73	480585	652476	8.914	7.918	
	Spiked Amount 15.974			Recovery	=	55.80%	49.57%	
22)	S DCB	16.89	17.41	244174	424859	8.402	11.5	#
	Spiked Amount 15.974			Recovery	=	✓52.60%	✓71.99%	

Target Compounds:

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02S8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) SOIL Lab Sample ID: 47294.14

Sample wt/vol: 31.9 (g/mL) G Lab File ID:_____

% Moisture: 56 decanted: (Y/N) __ Date Received: 08/16/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/16/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/19/01

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	71	U
11104-28-2	Aroclor-1221	71	U
11141-16-5	Aroclor-1232	71	U
53469-21-9	Aroclor-1242	71	U
12672-29-6	Aroclor-1248	71	U
11097-69-1	Aroclor-1254	71	U
11096-82-5	Aroclor-1260	71	U
	Surrogate amount spiked	14.24	

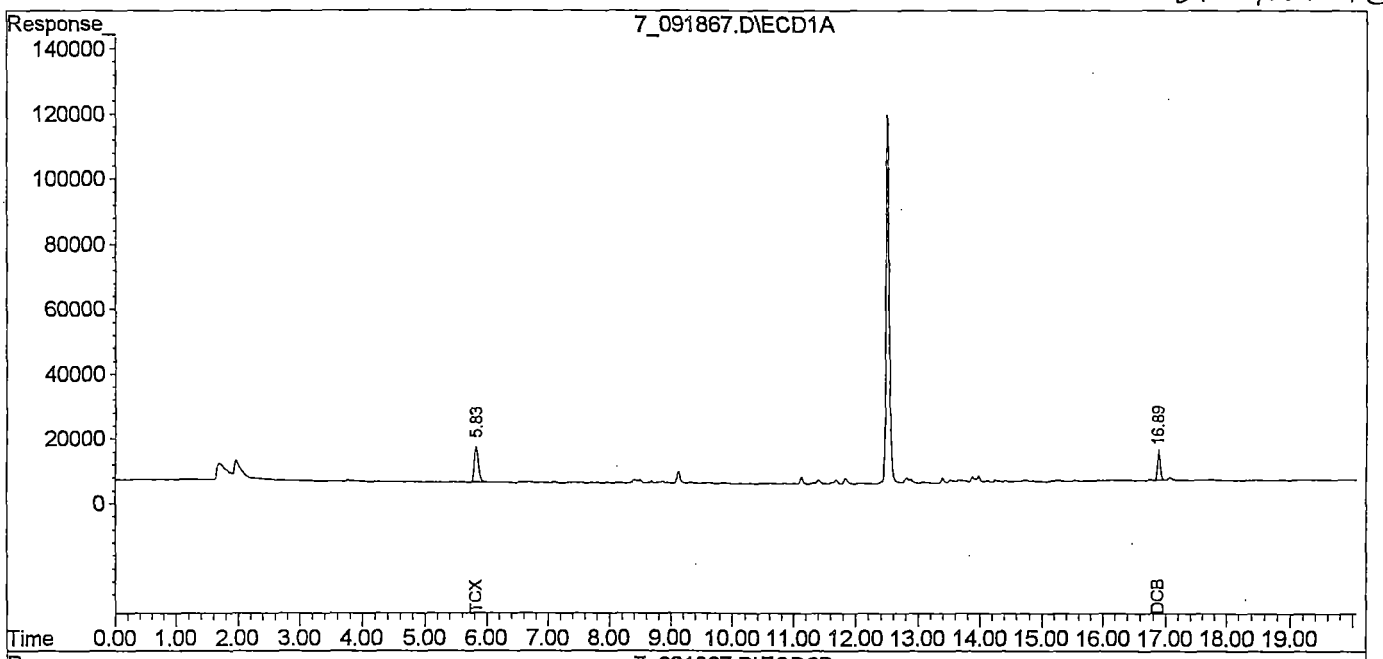
Chromatographic Report

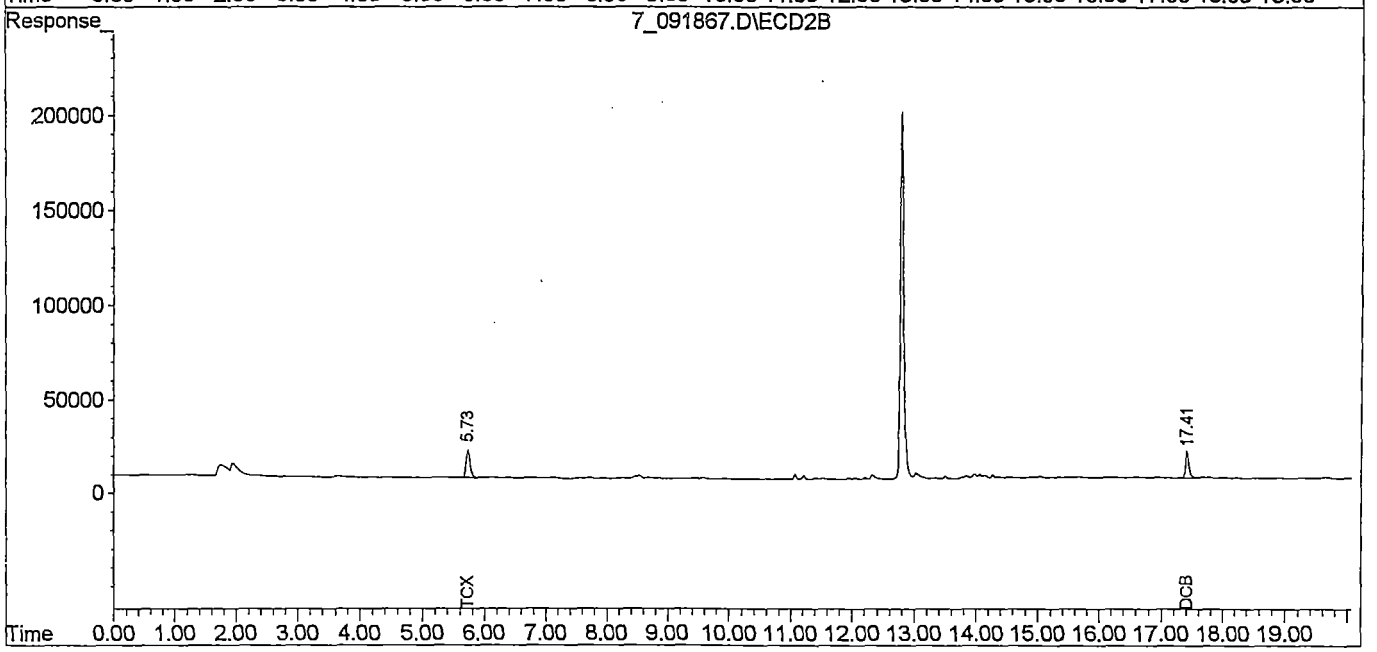
Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091867.D\ECD1A.CH Vial: 42
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091867.D\ECD2B.CH
Acq On : 19 Sep 2001 10:18 Operator: SA
Sample : 47294.14 *E02S8 * Inst : HP_07
Misc : *EPA*31.9G/5.0ML*56 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 7:47 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-21-01 OH





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091867.D\ECD1A.CH Vial: 42
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091867.D\ECD2B.CH
Acq On : 19 Sep 2001 10:18 Operator: SA
Sample : 47294.14 *E02S8 * Inst : HP_07
Misc : *EPA*31.9G/5.0ML*56 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 7:47 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	512480	701880	8.479	7.597
	Spiked Amount 14.249			Recovery	=	59.51%	53.32%
22)	S DCB	16.89	17.41	299318	527272	9.187	12.7m #
	Spiked Amount 14.249			Recovery	=	64.47%	89.13%

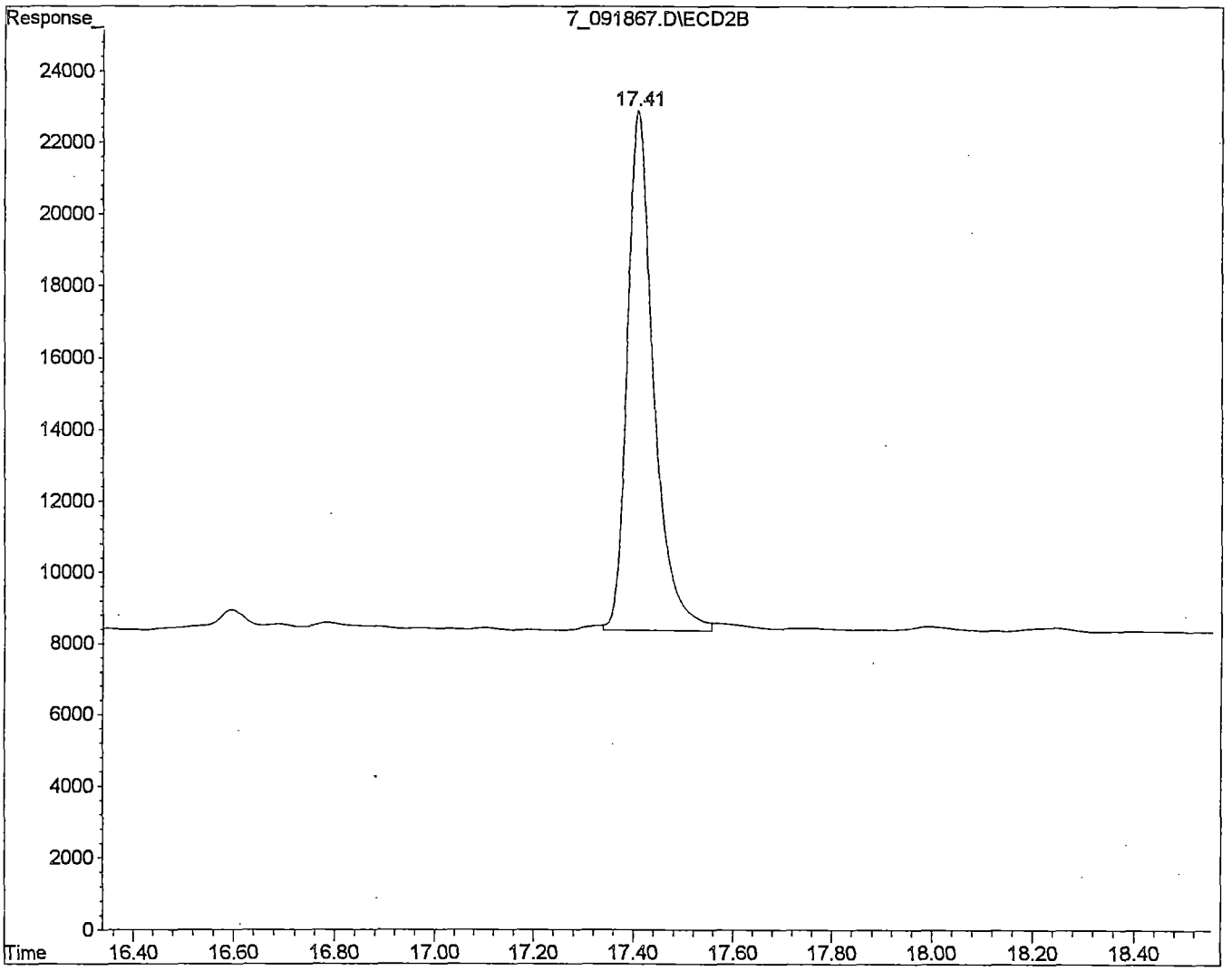
09-21-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091867.D
Date Acquired: 19 Sep 2001 10:18
Inst: HP_07 Operator ID: SA
Name: 47294.14 *E02S8 *
Misc: *EPA*31.9G/5.0ML*56
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 7:47 2001 Quant Results File: XPCBI18.RES



CS 9-20-9

DCB #2 17.41min area: 527272 m

Integration Time Range: 17.34 - 17.55

ok 9-21-01

F:\HPCHEM\HP\7\DATA\09_19_01\7_091867.D
Report generated: Thu Sep 20 07:55:35 2001

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Instrument ID: HP_07A Date(s) Analyzed: 09/12/01 09/12/01

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

GC Column: PEST I ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	7.44	2030120	MEAN
		2	8.48	2004930	
		3	8.77	1226280	
		4	9.21	882210	
		5	9.64	1320770	
Aroclor 1242 L2	0.20	1	7.44	1742030	MEAN
		2	8.48	1808965	
		3	8.77	1054200	
		4	9.21	761735	
		5	9.64	1135485	
Aroclor 1242 L3	0.40	1	7.45	1828330	MEAN
		2	8.48	2174923	
		3	8.77	1157795	
		4	9.21	849248	
		5	9.64	1267800	
Aroclor 1242 L4	0.80	1	7.44	1574028	MEAN
		2	8.47	2125343	
		3	8.76	1048423	
		4	9.21	763654	
		5	9.64	1160804	
Aroclor 1242 L5	1.60	1	7.46	1494069	MEAN
		2	8.48	2257788	
		3	8.77	1042520	
		4	9.22	764173	
		5	9.65	1156735	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	7.45	7.40	7.50	1733715	12.2
	2	8.48	8.43	8.53	2074390	8.4
	3	8.77	8.72	8.82	1105844	7.5
	4	9.21	9.16	9.26	804204	7.1
	5	9.64	9.59	9.69	1208319	6.7

FORM VI PCB-3

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Instrument ID: HP_07B Date(s) Analyzed: 09/12/01 09/12/01

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

GC Column: PEST II ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	7.72	2533510	MEAN
		2	8.74	2124390	
		3	9.02	1922950	
		4	9.52	1095170	
		5	10.00	1001470	
Aroclor 1242 L2	0.20	1	7.72	2252700	MEAN
		2	8.73	1881265	
		3	9.01	1613585	
		4	9.52	945030	
		5	10.00	851100	
Aroclor 1242 L3	0.40	1	7.72	2420308	MEAN
		2	8.72	2280495	
		3	9.00	1708520	
		4	9.52	1049110	
		5	10.00	967130	
Aroclor 1242 L4	0.80	1	7.72	2172788	MEAN
		2	8.71	2309116	
		3	8.99	1529956	
		4	9.51	971103	
		5	9.99	905355	
Aroclor 1242 L5	1.60	1	7.72	2203440	MEAN
		2	8.71	2701248	
		3	9.00	1544863	
		4	9.51	1013869	
		5	9.99	981730	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	7.72	7.67	7.77	2316549	6.7
	2	8.72	8.67	8.77	2259303	13.3
	3	9.00	8.95	9.05	1663975	9.7
	4	9.52	9.47	9.57	1014856	5.9
	5	10.00	9.95	10.05	941357	6.6

FORM VI PCB-3

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Instrument ID: HP_07A Date(s) Analyzed: 09/12/01 09/12/01

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

GC Column: PEST I ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	10.46	1678140	MEAN
		2	11.01	2596850	
		3	11.87	2609110	
		4	12.84	2211380	
		5	13.42	2834350	
Aroclor 1254 L2	0.20	1	10.46	1708740	MEAN
		2	11.01	2697250	
		3	11.86	2746790	
		4	12.84	2151750	
		5	13.41	2846555	
Aroclor 1254 L3	0.40	1	10.46	1660943	MEAN
		2	11.01	2711008	
		3	11.86	2742218	
		4	12.83	2091215	
		5	13.41	2844315	
Aroclor 1254 L4	0.80	1	10.46	1591879	MEAN
		2	11.01	2628289	
		3	11.86	2708084	
		4	12.83	1945968	
		5	13.40	2735369	
Aroclor 1254 L5	1.60	1	10.45	1475517	MEAN
		2	11.01	2486803	
		3	11.85	2542248	
		4	12.82	1779403	
		5	13.39	2602210	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	10.46	10.41	10.51	1623044	5.7
	2	11.01	10.96	11.06	2624040	3.4
	3	11.86	11.81	11.91	2669690	3.4
	4	12.83	12.78	12.88	2035943	8.5
	5	13.41	13.36	13.46	2772560	3.8

FORM VI PCB-3

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Instrument ID: HP_07B Date(s) Analyzed: 09/12/01 09/12/01

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

GC Column: PEST II ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	10.88	2527820	MEAN
		2	11.31	2045090	
		3	12.31	4242810	
		4	13.11	2331320	
		5	13.82	4100140	
Aroclor 1254 L2	0.20	1	10.88	2590255	MEAN
		2	11.30	2061280	
		3	12.29	4089840	
		4	13.10	2140720	
		5	13.81	3836300	
Aroclor 1254 L3	0.40	1	10.88	2660738	MEAN
		2	11.29	2136375	
		3	12.28	4154250	
		4	13.09	2074853	
		5	13.80	3803975	
Aroclor 1254 L4	0.80	1	10.87	2775761	MEAN
		2	11.28	2249015	
		3	12.26	4319523	
		4	13.08	1972551	
		5	13.78	3579964	
Aroclor 1254 L5	1.60	1	10.86	2837481	MEAN
		2	11.27	2289251	
		3	12.24	4271748	
		4	13.07	1926186	
		5	13.77	3722253	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	10.87	10.82	10.92	2678411	4.8
	2	11.29	11.24	11.34	2156202	5.1
	3	12.28	12.23	12.33	4215634	2.2
	4	13.09	13.04	13.14	2089126	7.6
	5	13.80	13.75	13.85	3808526	5.0

FORM VI PCB-3

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Instrument ID: HP_07A Date(s) Analyzed: 09/12/01 09/12/01

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

GC Column: PEST I ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	6.66	1061310	MEAN
		2	7.89	1408460	
		3	8.48	2444290	
		4	8.90	916980	
		5	9.29	1296510	
Aroclor 1016 L2	0.20	1	6.66	961885	MEAN
		2	7.89	1305085	
		3	8.48	2394910	
		4	8.90	844920	
		5	9.29	1171660	
Aroclor 1016 L3	0.40	1	6.66	1133533	MEAN
		2	7.89	1549408	
		3	8.47	3281918	
		4	8.90	1032395	
		5	9.29	1306485	
Aroclor 1016 L4	0.80	1	6.65	856099	MEAN
		2	7.89	1178394	
		3	8.47	2663131	
		4	8.90	798981	
		5	9.28	975629	
Aroclor 1016 L5	1.60	1	6.65	809961	MEAN
		2	7.89	1126584	
		3	8.47	2829241	
		4	8.90	796693	
		5	9.28	897453	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	6.65	6.60	6.70	964558	14.1
	2	7.89	7.84	7.94	1313586	13.1
	3	8.47	8.42	8.52	2722698	13.1
	4	8.90	8.85	8.95	877994	11.3
	5	9.29	9.24	9.34	1129547	16.5

FORM VI PCB-3

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Instrument ID: HP_07A Date(s) Analyzed: 09/12/01 09/12/01

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

GC Column: PEST I ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	12.24	2571480	MEAN
		2	12.84	4105530	
		3	13.42	2897490	
		4	14.07	1402610	
		5	14.63	3066400	
Aroclor 1260 L2	0.20	1	12.24	2342030	MEAN
		2	12.84	3769915	
		3	13.42	2755565	
		4	14.07	1304140	
		5	14.63	2929125	
Aroclor 1260 L3	0.40	1	12.24	2589105	MEAN
		2	12.83	4334238	
		3	13.41	3407135	
		4	14.06	1373185	
		5	14.62	3429033	
Aroclor 1260 L4	0.80	1	12.23	2063240	MEAN
		2	12.82	3470319	
		3	13.40	2801421	
		4	14.06	1246893	
		5	14.62	2950733	
Aroclor 1260 L5	1.60	1	12.23	1935665	MEAN
		2	12.82	3314012	
		3	13.39	2810935	
		4	14.06	1222711	
		5	14.62	2956560	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	12.23	12.18	12.28	2300304	12.8
	2	12.83	12.78	12.88	3798803	11.2
	3	13.41	13.36	13.46	2934509	9.2
	4	14.06	14.01	14.11	1309908	5.9
	5	14.62	14.57	14.67	3066370	6.8

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Instrument ID: HP_07B Date(s) Analyzed: 09/12/01 09/12/01

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

GC Column: PEST II ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	6.83	1246120	MEAN
		2	8.23	1539430	
		3	9.43	1232870	
		4	9.60	2588850	
		5	10.00	2254900	
Aroclor 1016 L2	0.20	1	6.83	1134810	MEAN
		2	8.23	1354225	
		3	9.43	1112800	
		4	9.59	2148250	
		5	10.00	1972320	
Aroclor 1016 L3	0.40	1	6.83	1363425	MEAN
		2	8.23	1631323	
		3	9.42	1374710	
		4	9.59	2324603	
		5	9.99	2410348	
Aroclor 1016 L4	0.80	1	6.83	1054653	MEAN
		2	8.23	1258350	
		3	9.42	1058151	
		4	9.58	1736348	
		5	9.99	1906176	
Aroclor 1016 L5	1.60	1	6.83	1033364	MEAN
		2	8.23	1248394	
		3	9.42	1058786	
		4	9.58	1613044	
		5	9.99	1976069	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	6.83	6.78	6.88	1166474	11.8
	2	8.23	8.18	8.28	1406344	12.2
	3	9.42	9.37	9.47	1167464	11.6
	4	9.59	9.54	9.64	2082219	19.5
	5	9.99	9.94	10.04	2103963	10.3

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Instrument ID: HP_07B Date(s) Analyzed: 09/12/01 09/12/01

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

GC Column: PEST II ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	12.66	3725160	MEAN
		2	13.12	3342100	
		3	13.42	3019350	
		4	14.47	1797630	
		5	14.92	3009640	
Aroclor 1260 L2	0.20	1	12.66	3282230	MEAN
		2	13.11	2998190	
		3	13.42	2760655	
		4	14.47	1695090	
		5	14.92	2763575	
Aroclor 1260 L3	0.40	1	12.65	3818883	MEAN
		2	13.09	3648103	
		3	13.41	3249523	
		4	14.46	2059583	
		5	14.90	3599070	
Aroclor 1260 L4	0.80	1	12.65	3050069	MEAN
		2	13.09	2985485	
		3	13.40	2683413	
		4	14.46	1733871	
		5	14.90	3114291	
Aroclor 1260 L5	1.60	1	12.64	3011138	MEAN
		2	13.08	3034064	
		3	13.40	2757982	
		4	14.46	1798402	
		5	14.89	3345289	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	12.65	12.60	12.70	3377496	11.1
	2	13.10	13.05	13.15	3201588	9.0
	3	13.41	13.36	13.46	2894184	8.2
	4	14.46	14.41	14.51	1816915	7.8
	5	14.91	14.86	14.96	3166373	10.1

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Instrument ID: HP_07A Date(s) Analyzed: 09/12/01 09/12/01

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

GC Column: PEST I ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	6.23	504033	SINGLE
		2	6.56	281340	POINT
		3	6.66	1302053	
		4			
		5			
Aroclor 1232	0.40	1	7.45	1045045	SINGLE
		2	7.89	589765	POINT
		3	8.32	148208	
		4	8.48	1149105	
		5			
Aroclor 1248	0.40	1	7.89	451313	SINGLE
		2	9.21	1279758	POINT
		3	9.83	919843	
		4	10.38	383925	
		5	11.08	1308113	

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Instrument ID: HP_07B Date(s) Analyzed: 09/12/01 09/12/01

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

GC Column: PEST II ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	6.39	555460	SINGLE
		2	6.70	370498	POINT
		3	6.83	1596993	
		4			
		5			
Aroclor 1232	0.40	1	7.72	1420268	SINGLE
		2	7.95	296875	POINT
		3	8.17	202563	
		4	8.23	694163	
		5			
Aroclor 1248	0.40	1	8.72	1212398	SINGLE
		2	8.99	1054783	POINT
		3	9.42	1376868	
		4	10.56	429495	
		5	11.29	714053	

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Instrument ID: HP_07A Date(s) Analyzed: 09/18/01 09/18/01

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

GC Column: PEST I ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	6.66	1162760	MEAN
		2	7.89	1695510	
		3	8.48	3718440	
		4	8.90	1095190	
		5	9.29	1600560	
Aroclor 1016 L2	0.20	1	6.66	1121215	MEAN
		2	7.89	1643560	
		3	8.48	3743155	
		4	8.90	1070100	
		5	9.29	1435230	
Aroclor 1016 L3	0.40	1	6.66	1093268	MEAN
		2	7.89	1641433	
		3	8.47	4049343	
		4	8.90	1050020	
		5	9.28	1214950	
Aroclor 1016 L4	0.80	1	6.66	1029423	MEAN
		2	7.89	1517516	
		3	8.47	3956883	
		4	8.90	1022974	
		5	9.28	1196140	
Aroclor 1016 L5	1.60	1	6.65	873364	MEAN
		2	7.89	1221665	
		3	8.47	3631575	
		4	8.90	908575	
		5	9.28	1004237	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	6.66	6.61	6.71	1056006	10.7
	2	7.89	7.84	7.94	1543937	12.4
	3	8.47	8.42	8.52	3819879	4.6
	4	8.90	8.85	8.95	1029372	7.0
	5	9.28	9.23	9.33	1290223	17.9

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Instrument ID: HP_07A Date(s) Analyzed: 09/18/01 09/18/01

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

GC Column: PEST I ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	12.25	2896840	MEAN
		2	12.84	4628350	
		3	13.43	3363670	
		4	14.07	1651000	
		5	14.63	3529140	
Aroclor 1260 L2	0.20	1	12.24	2832105	MEAN
		2	12.84	4632195	
		3	13.42	3516785	
		4	14.07	1690380	
		5	14.63	3701255	
Aroclor 1260 L3	0.40	1	12.23	2744958	MEAN
		2	12.82	4621583	
		3	13.39	3790213	
		4	14.06	1722308	
		5	14.62	3823090	
Aroclor 1260 L4	0.80	1	12.24	2533410	MEAN
		2	12.82	4306223	
		3	13.40	3592520	
		4	14.06	1606528	
		5	14.62	3771710	
Aroclor 1260 L5	1.60	1	12.23	2219491	MEAN
		2	12.82	3836872	
		3	13.39	3329508	
		4	14.06	1456568	
		5	14.62	3515116	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	12.23	12.18	12.28	2645361	10.4
	2	12.83	12.78	12.88	4405044	7.9
	3	13.41	13.36	13.46	3518539	5.3
	4	14.06	14.01	14.11	1625357	6.4
	5	14.62	14.57	14.67	3668062	3.8

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Instrument ID: HP_07B Date(s) Analyzed: 09/18/01 09/18/01

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

GC Column: PEST II ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	6.84	1494880	MEAN
		2	8.23	2262050	
		3	9.43	1520330	
		4	9.59	3022480	
		5	10.00	2697060	
Aroclor 1016 L2	0.20	1	6.84	1552675	MEAN
		2	8.23	2197990	
		3	9.42	1450630	
		4	9.59	2707965	
		5	9.99	2617415	
Aroclor 1016 L3	0.40	1	6.84	1378428	MEAN
		2	8.23	2215405	
		3	9.42	1533113	
		4	9.58	2326408	
		5	9.99	2707753	
Aroclor 1016 L4	0.80	1	6.84	1425893	MEAN
		2	8.23	2138863	
		3	9.42	1413300	
		4	9.58	2243730	
		5	9.99	2632651	
Aroclor 1016 L5	1.60	1	6.83	1260479	MEAN
		2	8.23	1915747	
		3	9.42	1282154	
		4	9.58	1913552	
		5	9.99	2459108	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	6.84	6.79	6.89	1422471	7.9
	2	8.23	8.18	8.28	2146011	6.3
	3	9.42	9.37	9.47	1439905	7.0
	4	9.58	9.53	9.63	2442827	17.6
	5	9.99	9.94	10.04	2622797	3.8

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Instrument ID: HP_07B Date(s) Analyzed: 09/18/01 09/18/01

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

GC Column: PEST II ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	12.66	4438590	MEAN
		2	13.10	4153690	
		3	13.41	3765750	
		4	14.46	2416880	
		5	14.91	3864770	
Aroclor 1260 L2	0.20	1	12.65	4355030	MEAN
		2	13.09	4187065	
		3	13.41	3721210	
		4	14.46	2490845	
		5	14.90	4150175	
Aroclor 1260 L3	0.40	1	12.64	4399363	MEAN
		2	13.07	4433243	
		3	13.39	3918553	
		4	14.45	2693815	
		5	14.88	4708455	
Aroclor 1260 L4	0.80	1	12.64	4145979	MEAN
		2	13.08	4254283	
		3	13.40	3790321	
		4	14.45	2581305	
		5	14.89	4715010	
Aroclor 1260 L5	1.60	1	12.63	3815909	MEAN
		2	13.07	4002863	
		3	13.39	3628258	
		4	14.45	2485228	
		5	14.88	4726153	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	12.64	12.59	12.69	4230974	6.1
	2	13.08	13.03	13.13	4206229	3.7
	3	13.40	13.35	13.45	3764818	2.8
	4	14.45	14.40	14.50	2533615	4.2
	5	14.89	14.84	14.94	4432913	9.1

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Instrument ID: HP_07A Date(s) Analyzed: 09/18/01 09/18/01

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

GC Column: PEST I ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	7.44	1989600	MEAN
		2	8.48	1810710	
		3	8.78	1212830	
		4	9.20	1539770	
		5	9.64	1373430	
Aroclor 1242 L2	0.20	1	7.44	1955445	MEAN
		2	8.47	1969095	
		3	8.77	1204130	
		4	9.20	1493820	
		5	9.64	1346980	
Aroclor 1242 L3	0.40	1	7.44	1944233	MEAN
		2	8.47	2259485	
		3	8.77	1234763	
		4	9.20	1484313	
		5	9.64	1370288	
Aroclor 1242 L4	0.80	1	7.44	1756863	MEAN
		2	8.47	2951286	
		3	8.77	1179765	
		4	9.20	1388404	
		5	9.64	1326568	
Aroclor 1242 L5	1.60	1	7.44	1576163	MEAN
		2	8.47	2888174	
		3	8.76	1108488	
		4	9.20	1269721	
		5	9.64	1246361	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	7.44	7.39	7.49	1844461	9.5
	2	8.47	8.42	8.52	2375750	22.0
	3	8.77	8.72	8.82	1187995	4.1
	4	9.20	9.15	9.25	1435205	7.5
	5	9.64	9.59	9.69	1332725	3.9

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Instrument ID: HP_07B Date(s) Analyzed: 09/18/01 09/18/01

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

GC Column: PEST II ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	7.72	2631910	MEAN
		2	8.74	2031110	
		3	9.02	2144280	
		4	9.52	1252740	
		5	10.00	2121760	
Aroclor 1242 L2	0.20	1	7.72	2563455	MEAN
		2	8.73	2161095	
		3	9.01	1986430	
		4	9.51	1158055	
		5	9.99	1955505	
Aroclor 1242 L3	0.40	1	7.72	2749690	MEAN
		2	8.72	2587435	
		3	9.00	2028593	
		4	9.51	1241313	
		5	9.99	2019335	
Aroclor 1242 L4	0.80	1	7.72	2600676	MEAN
		2	8.71	2935260	
		3	9.00	1958446	
		4	9.51	1233039	
		5	9.99	2006106	
Aroclor 1242 L5	1.60	1	7.72	2497964	MEAN
		2	8.70	3286800	
		3	8.99	1879888	
		4	9.50	1213004	
		5	9.99	1991531	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	7.72	7.67	7.77	2608739	3.6
	2	8.72	8.67	8.77	2600340	20.2
	3	9.00	8.95	9.05	1999527	4.9
	4	9.51	9.46	9.56	1219630	3.1
	5	9.99	9.94	10.04	2018848	3.1

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Instrument ID: HP_07A Date(s) Analyzed: 09/18/01 09/18/01

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

GC Column: PEST I ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	10.46	1862190	MEAN
		2	11.01	5066430	
		3	11.89	3056050	
		4	12.84	2658500	
		5	13.42	3487030	
Aroclor 1254 L2	0.20	1	10.46	1907865	MEAN
		2	11.01	5129680	
		3	11.88	3172525	
		4	12.84	2638605	
		5	13.41	3553635	
Aroclor 1254 L3	0.40	1	10.46	1888505	MEAN
		2	11.01	4962423	
		3	11.87	3215963	
		4	12.84	2531475	
		5	13.41	3553683	
Aroclor 1254 L4	0.80	1	10.46	1772169	MEAN
		2	11.01	4616601	
		3	11.87	3118348	
		4	12.83	2296086	
		5	13.40	3110115	
Aroclor 1254 L5	1.60	1	10.46	1665402	MEAN
		2	11.01	4333870	
		3	11.86	3013330	
		4	12.83	2126429	
		5	13.39	3122836	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	10.46	10.41	10.51	1819226	5.5
	2	11.01	10.96	11.06	4821801	7.0
	3	11.87	11.82	11.92	3115243	2.7
	4	12.84	12.79	12.89	2450219	9.4
	5	13.41	13.36	13.46	3365460	6.8

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Instrument ID: HP_07B Date(s) Analyzed: 09/18/01 09/18/01

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

GC Column: PEST II ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	10.88	3038870	MEAN
		2	11.31	2604500	
		3	12.31	5334440	
		4	13.11	2985350	
		5	13.81	5407260	
Aroclor 1254 L2	0.20	1	10.88	3123045	MEAN
		2	11.30	2686350	
		3	12.30	5252390	
		4	13.10	2789230	
		5	13.80	4813920	
Aroclor 1254 L3	0.40	1	10.87	3259818	MEAN
		2	11.29	2786713	
		3	12.28	5355765	
		4	13.09	2692190	
		5	13.79	4801783	
Aroclor 1254 L4	0.80	1	10.87	3360201	MEAN
		2	11.29	2849289	
		3	12.26	4441610	
		4	13.08	2506914	
		5	13.78	4676939	
Aroclor 1254 L5	1.60	1	10.87	3476679	MEAN
		2	11.28	2922948	
		3	12.25	5412570	
		4	13.07	2422468	
		5	13.77	4530734	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	10.87	10.82	10.92	3251723	5.4
	2	11.29	11.24	11.34	2769960	4.6
	3	12.28	12.23	12.33	5159355	7.9
	4	13.09	13.04	13.14	2679230	8.4
	5	13.79	13.74	13.84	4846127	6.9

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Instrument ID: HP_07A Date(s) Analyzed: 09/18/01 09/18/01

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

GC Column: PEST I ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	6.23	518600	SINGLE
		2	6.56	260863	POINT
		3	6.65	1337793	
		4			
		5			
Aroclor 1232	0.40	1	7.45	1088693	SINGLE
		2	7.89	805035	POINT
		3	8.32	169513	
		4	8.48	1146880	
		5			
Aroclor 1248	0.40	1	7.89	473770	SINGLE
		2	9.20	2335013	POINT
		3	9.83	935945	
		4	10.39	279328	
		5	11.08	1649883	

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Instrument ID: HP_07B Date(s) Analyzed: 09/18/01 09/18/01

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

GC Column: PEST II ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	6.39	707628	SINGLE
		2	6.70	426610	POINT
		3	6.83	2076818	
		4			
		5			
Aroclor 1232	0.40	1	7.72	1520578	SINGLE
		2	7.95	301710	POINT
		3	8.16	207945	
		4	8.23	731865	
		5			
Aroclor 1248	0.40	1	8.73	1313345	SINGLE
		2	8.98	1251210	POINT
		3	9.42	1480083	
		4	10.56	509045	
		5	11.29	905548	

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

GC Column: PEST I ID: 0.32(mm) Init. Calib Date(s): 09/12/01 09/12/01

Client Sample No.(PIBLK): PIBLK79 Date Analyzed : 09/14/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0408

Client Sample No.: AR1660L375 Date Analyzed : 09/14/01

Lab Sample ID : 5-128-7 Time Analyzed : 0432

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.66	6.60	6.70	1032305	964558	7.0
Aroclor 1016 #2	7.90	7.84	7.94	1386793	1313586	5.6
Aroclor 1016 #3	8.48	8.42	8.52	2858510	2722698	5.0
Aroclor 1016 #4	8.91	8.85	8.95	933023	877994	6.3
Aroclor 1016 #5	9.30	9.24	9.34	1156340	1129547	2.4
Aroclor 1260 #1	12.25	12.18	12.28	2333585	2300304	1.5
Aroclor 1260 #2	12.84	12.78	12.88	3952628	3798803	4.1
Aroclor 1260 #3	13.42	13.36	13.46	3174208	2934509	8.2
Aroclor 1260 #4	14.08	14.01	14.11	1430030	1309908	9.2
Aroclor 1260 #5	14.64	14.57	14.67	3512838	3066370	14.6

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

FORM VII PCB

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

GC Column: PEST II ID: 0.32(mm) Init. Calib Date(s): 09/12/01 09/12/01

Client Sample No.(PIBLK): PIBLK79 Date Analyzed : 09/14/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0408

Client Sample No.: AR1660L375 Date Analyzed : 09/14/01

Lab Sample ID : 5-128-7 Time Analyzed : 0432

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.84	6.78	6.88	1321473	1166474	13.3
Aroclor 1016 #2	8.24	8.18	8.28	1488770	1406344	5.9
Aroclor 1016 #3	9.43	9.37	9.47	1234060	1167464	5.7
Aroclor 1016 #4	9.60	9.54	9.64	2022473	2082219	2.9
Aroclor 1016 #5	10.00	9.94	10.04	2152513	2103963	2.3
Aroclor 1260 #1	12.66	12.60	12.70	3458350	3377496	2.4
Aroclor 1260 #2	13.10	13.05	13.15	3543890	3201588	10.7
Aroclor 1260 #3	13.42	13.36	13.46	3066198	2894184	5.9
Aroclor 1260 #4	14.47	14.41	14.51	2160360	1816915	18.9*
Aroclor 1260 #5	14.91	14.86	14.96	4136563	3166373	30.6*

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

GC Column: PEST I ID: 0.32(mm) Init. Calib Date(s): 09/12/01 09/12/01

Client Sample No.(PIBLK): PIBLK7A Date Analyzed : 09/14/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1038

Client Sample No.: AR1660L379 Date Analyzed : 09/14/01

Lab Sample ID : 5-128-7 Time Analyzed : 1102

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.66	6.60	6.70	1046055	964558	8.4
Aroclor 1016 #2	7.89	7.84	7.94	1404003	1313586	6.9
Aroclor 1016 #3	8.48	8.42	8.52	2861795	2722698	5.1
Aroclor 1016 #4	8.90	8.85	8.95	925023	877994	5.4
Aroclor 1016 #5	9.29	9.24	9.34	1167535	1129547	3.4
Aroclor 1260 #1	12.24	12.18	12.28	2248045	2300304	2.3
Aroclor 1260 #2	12.84	12.78	12.88	3743305	3798803	1.5
Aroclor 1260 #3	13.42	13.36	13.46	2943913	2934509	0.3
Aroclor 1260 #4	14.07	14.01	14.11	1334683	1309908	1.9
Aroclor 1260 #5	14.63	14.57	14.67	3264968	3066370	6.5

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

GC Column: PEST II ID: 0.32(mm) Init. Calib Date(s): 09/12/01 09/12/01

Client Sample No.(PIBLK): PIBLK7A Date Analyzed : 09/14/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1038

Client Sample No.: AR1660L379 Date Analyzed : 09/14/01

Lab Sample ID : 5-128-7 Time Analyzed : 1102

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.83	6.78	6.88	1350785	1166474	15.8*
Aroclor 1016 #2	8.23	8.18	8.28	1517878	1406344	7.9
Aroclor 1016 #3	9.43	9.37	9.47	1236538	1167464	5.9
Aroclor 1016 #4	9.59	9.54	9.64	2138658	2082219	2.7
Aroclor 1016 #5	10.00	9.94	10.04	2145028	2103963	2.0
Aroclor 1260 #1	12.66	12.60	12.70	3313475	3377496	1.9
Aroclor 1260 #2	13.10	13.05	13.15	3303818	3201588	3.2
Aroclor 1260 #3	13.41	13.36	13.46	2925853	2894184	1.1
Aroclor 1260 #4	14.47	14.41	14.51	1986635	1816915	9.3
Aroclor 1260 #5	14.91	14.86	14.96	3776115	3166373	19.3*

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

GC Column: PEST I ID: 0.32(mm) Init. Calib Date(s): 09/18/01 09/18/01

Client Sample No.(PIBLK): PIBLK7H Date Analyzed : 09/19/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0655

Client Sample No.: AR1660L37N Date Analyzed : 09/19/01

Lab Sample ID : 5-128-7 Time Analyzed : 0719

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.66	6.61	6.71	1145285	1056006	8.4
Aroclor 1016 #2	7.89	7.84	7.94	1708813	1543937	10.7
Aroclor 1016 #3	8.48	8.42	8.52	4306900	3819879	12.7
Aroclor 1016 #4	8.90	8.85	8.95	1077458	1029372	4.7
Aroclor 1016 #5	9.29	9.23	9.33	1199233	1290223	7.1
Aroclor 1260 #1	12.24	12.18	12.28	2857445	2645361	8.0
Aroclor 1260 #2	12.82	12.78	12.88	4843810	4405044	10.0
Aroclor 1260 #3	13.39	13.36	13.46	3999820	3518539	13.7
Aroclor 1260 #4	14.06	14.01	14.11	1799683	1625357	10.7
Aroclor 1260 #5	14.62	14.57	14.67	3932328	3668062	7.2

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

GC Column: PEST II ID: 0.32(mm) Init. Calib Date(s): 09/18/01 09/18/01

Client Sample No.(PIBLK): PIBLK7H Date Analyzed : 09/19/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0655

Client Sample No.: AR1660L37N Date Analyzed : 09/19/01

Lab Sample ID : 5-128-7 Time Analyzed : 0719

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.84	6.79	6.89	1525040	1422471	7.2
Aroclor 1016 #2	8.23	8.18	8.28	2336313	2146011	8.9
Aroclor 1016 #3	9.42	9.37	9.47	1586928	1439905	10.2
Aroclor 1016 #4	9.58	9.53	9.63	2292773	2442827	6.1
Aroclor 1016 #5	9.99	9.94	10.04	2845838	2622797	8.5
Aroclor 1260 #1	12.64	12.59	12.69	4642283	4230974	9.7
Aroclor 1260 #2	13.07	13.03	13.13	4779570	4206229	13.6
Aroclor 1260 #3	13.40	13.35	13.45	4114718	3764818	9.3
Aroclor 1260 #4	14.45	14.40	14.50	2864483	2533615	13.1
Aroclor 1260 #5	14.88	14.84	14.94	5121058	4432913	15.5*

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

GC Column: PEST I ID: 0.32(mm) Init. Calib Date(s): 09/18/01 09/18/01

Client Sample No.(PIBLK): PIBLK7I Date Analyzed : 09/19/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1404

Client Sample No.: AR1660L37P Date Analyzed : 09/19/01

Lab Sample ID : 5-128-7 Time Analyzed : 1429

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.66	6.61	6.71	1062858	1056006	0.6
Aroclor 1016 #2	7.89	7.84	7.94	1462998	1543937	5.2
Aroclor 1016 #3	8.47	8.42	8.52	3938590	3819879	3.1
Aroclor 1016 #4	8.90	8.85	8.95	1023575	1029372	0.6
Aroclor 1016 #5	9.29	9.23	9.33	1207280	1290223	6.4
Aroclor 1260 #1	12.24	12.18	12.28	2702378	2645361	2.2
Aroclor 1260 #2	12.83	12.78	12.88	4554415	4405044	3.4
Aroclor 1260 #3	13.40	13.36	13.46	3693073	3518539	5.0
Aroclor 1260 #4	14.06	14.01	14.11	1662983	1625357	2.3
Aroclor 1260 #5	14.62	14.57	14.67	3597568	3668062	1.9

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

GC Column: PEST II ID: 0.32(mm) Init. Calib Date(s): 09/18/01 09/18/01

Client Sample No.(PIBLK): PIBLK7I Date Analyzed : 09/19/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1404

Client Sample No.: AR1660L37P Date Analyzed : 09/19/01

Lab Sample ID : 5-128-7 Time Analyzed : 1429

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.83	6.79	6.89	1536213	1422471	8.0
Aroclor 1016 #2	8.23	8.18	8.28	2138700	2146011	0.3
Aroclor 1016 #3	9.42	9.37	9.47	1417140	1439905	1.6
Aroclor 1016 #4	9.58	9.53	9.63	2201195	2442827	9.9
Aroclor 1016 #5	9.99	9.94	10.04	2633338	2622797	0.4
Aroclor 1260 #1	12.64	12.59	12.69	4343275	4230974	2.7
Aroclor 1260 #2	13.08	13.03	13.13	4441470	4206229	5.6
Aroclor 1260 #3	13.40	13.35	13.45	3764315	3764818	0.0
Aroclor 1260 #4	14.45	14.40	14.50	2576870	2533615	1.7
Aroclor 1260 #5	14.89	14.84	14.94	4515875	4432913	1.9

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

GC Column: PEST I ID: 0.32(mm) Init. Calib Date(s): 09/18/01 09/18/01

Client Sample No.(PIBLK): PIBLK7J Date Analyzed : 09/20/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0830

Client Sample No.: AR1660L37R Date Analyzed : 09/20/01

Lab Sample ID : 5-128-7 Time Analyzed : 0855

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.66	6.61	6.71	1090103	1056006	3.2
Aroclor 1016 #2	7.89	7.84	7.94	1470438	1543937	4.8
Aroclor 1016 #3	8.48	8.42	8.52	3866375	3819879	1.2
Aroclor 1016 #4	8.90	8.85	8.95	999410	1029372	2.9
Aroclor 1016 #5	9.29	9.23	9.33	1222103	1290223	5.3
Aroclor 1260 #1	12.24	12.18	12.28	2563773	2645361	3.1
Aroclor 1260 #2	12.83	12.78	12.88	4274960	4405044	3.0
Aroclor 1260 #3	13.41	13.36	13.46	3423733	3518539	2.7
Aroclor 1260 #4	14.07	14.01	14.11	1560568	1625357	4.0
Aroclor 1260 #5	14.63	14.57	14.67	3462740	3668062	5.6

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

GC Column: PEST II ID: 0.32(mm) Init. Calib Date(s): 09/18/01 09/18/01

Client Sample No.(PIBLK): PIBLK7J Date Analyzed : 09/20/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 0830

Client Sample No.: AR1660L37R Date Analyzed : 09/20/01

Lab Sample ID : 5-128-7 Time Analyzed : 0855

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.83	6.79	6.89	1439290	1422471	1.2
Aroclor 1016 #2	8.23	8.18	8.28	2083133	2146011	2.9
Aroclor 1016 #3	9.42	9.37	9.47	1406275	1439905	2.3
Aroclor 1016 #4	9.59	9.53	9.63	2142220	2442827	12.3
Aroclor 1016 #5	9.99	9.94	10.04	2473768	2622797	5.7
Aroclor 1260 #1	12.64	12.59	12.69	3913830	4230974	7.5
Aroclor 1260 #2	13.08	13.03	13.13	3832715	4206229	8.9
Aroclor 1260 #3	13.40	13.35	13.45	3391338	3764818	9.9
Aroclor 1260 #4	14.46	14.40	14.50	2260310	2533615	10.8
Aroclor 1260 #5	14.89	14.84	14.94	3785120	4432913	14.6

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

GC Column: PEST I ID: 0.32(mm) Init. Calib Date(s): 09/18/01 09/18/01

Client Sample No.(PIBLK): PIBLK7K Date Analyzed : 09/20/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1043

Client Sample No.: AR1660L37T Date Analyzed : 09/20/01

Lab Sample ID : 5-128-7 Time Analyzed : 1107

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.65	6.61	6.71	1118785	1056006	5.9
Aroclor 1016 #2	7.89	7.84	7.94	1518115	1543937	1.7
Aroclor 1016 #3	8.47	8.42	8.52	4007695	3819879	4.9
Aroclor 1016 #4	8.90	8.85	8.95	1047588	1029372	1.8
Aroclor 1016 #5	9.29	9.23	9.33	1281325	1290223	0.7
Aroclor 1260 #1	12.24	12.18	12.28	2717455	2645361	2.7
Aroclor 1260 #2	12.83	12.78	12.88	4558335	4405044	3.5
Aroclor 1260 #3	13.40	13.36	13.46	3656703	3518539	3.9
Aroclor 1260 #4	14.06	14.01	14.11	1664300	1625357	2.4
Aroclor 1260 #5	14.62	14.57	14.67	3752395	3668062	2.3

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

GC Column: PEST II ID: 0.32(mm) Init. Calib Date(s): 09/18/01 09/18/01

Client Sample No.(PIBLK): PIBLK7K Date Analyzed : 09/20/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1043

Client Sample No.: AR1660L37T Date Analyzed : 09/20/01

Lab Sample ID : 5-128-7 Time Analyzed : 1107

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.83	6.79	6.89	1541035	1422471	8.3
Aroclor 1016 #2	8.23	8.18	8.28	2236030	2146011	4.2
Aroclor 1016 #3	9.42	9.37	9.47	1465653	1439905	1.8
Aroclor 1016 #4	9.58	9.53	9.63	2320273	2442827	5.0
Aroclor 1016 #5	9.99	9.94	10.04	2640153	2622797	0.7
Aroclor 1260 #1	12.64	12.59	12.69	4284068	4230974	1.3
Aroclor 1260 #2	13.08	13.03	13.13	4297988	4206229	2.2
Aroclor 1260 #3	13.40	13.35	13.45	3709225	3764818	1.5
Aroclor 1260 #4	14.45	14.40	14.50	2508120	2533615	1.0
Aroclor 1260 #5	14.89	14.84	14.94	4412743	4432913	0.5

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.: 29602 SAS No.: SDG No.: E02R5

GC Column: PEST I ID: 0.32(mm) Init. Calib. Date(s): 09/12/01

Instrument ID: HP_07A

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	RESC7H	5-171-7	09/12/01	1205	5.84	16.91
02	AR1221L37G	5-420-6	09/12/01	1229	5.83	16.90
03	AR1232L37G	5-422-6	09/12/01	1253	5.83	16.90
04	AR1242L17G	5-11-7	09/12/01	1317	5.82	16.90
05	AR1242L27G	5-10-7	09/12/01	1341	5.82	16.90
06	AR1242L37G	5-9-7	09/12/01	1405	5.83	16.90
07	AR1242L47G	5-8-7	09/12/01	1429	5.82	16.90
08	AR1242L57G	5-7-7	09/12/01	1500	5.84	16.90
09	AR1248L37G	5-424-6	09/12/01	1524	5.83	16.90
10	AR1254L17G	5-6-7	09/12/01	1548	5.82	16.90
11	AR1254L27G	5-5-7	09/12/01	1613	5.82	16.90
12	AR1254L37G	5-4-7	09/12/01	1637	5.83	16.90
13	AR1254L47G	5-3-7	09/12/01	1702	5.83	16.90
14	AR1254L57G	5-2-7	09/12/01	1726	5.82	16.89
15	AR1660L17G	5-212-7	09/12/01	1750	5.82	16.90
16	AR1660L27G	5-211-7	09/12/01	1814	5.82	16.90
17	AR1660L37O	5-210-7	09/12/01	1838	5.82	16.89
18	AR1660L47G	5-209-7	09/12/01	1902	5.82	16.89
19	AR1660L57G	5-208-7	09/12/01	1926	5.82	16.89
20	PIBLK79	5-131-7	09/14/01	0408	5.83	16.91
21	AR1660L375	5-128-7	09/14/01	0432	5.83	16.91
22	PBLKSG	BL0816SG	09/14/01	0811	5.83	16.90
23	ELCS1	LC0816SG	09/14/01	0900	5.83	16.90
24	ELCS2	LD0816SG	09/14/01	0925	5.83	16.90
25	PIBLK7A	5-131-7	09/14/01	1038	5.82	16.90
26	AR1660L379	5-128-7	09/14/01	1102	5.82	16.90
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.: 29602 SAS No.: SDG No.: E02R5

GC Column: PEST II ID: 0.32(mm) Init. Calib. Date(s): 09/12/01

Instrument ID: HP_07B

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	RESC7H	5-171-7	09/12/01	1205	5.74	17.43
02	AR1221L37G	5-420-6	09/12/01	1229	5.73	17.43
03	AR1232L37G	5-422-6	09/12/01	1253	5.73	17.42
04	AR1242L17G	5-11-7	09/12/01	1317	5.72	17.42
05	AR1242L27G	5-10-7	09/12/01	1341	5.72	17.42
06	AR1242L37G	5-9-7	09/12/01	1405	5.73	17.42
07	AR1242L47G	5-8-7	09/12/01	1429	5.73	17.42
08	AR1242L57G	5-7-7	09/12/01	1500	5.73	17.42
09	AR1248L37G	5-424-6	09/12/01	1524	5.73	17.42
10	AR1254L17G	5-6-7	09/12/01	1548	5.72	17.42
11	AR1254L27G	5-5-7	09/12/01	1613	5.73	17.42
12	AR1254L37G	5-4-7	09/12/01	1637	5.73	17.42
13	AR1254L47G	5-3-7	09/12/01	1702	5.73	17.42
14	AR1254L57G	5-2-7	09/12/01	1726	5.73	17.42
15	AR1660L17G	5-212-7	09/12/01	1750	5.72	17.42
16	AR1660L27G	5-211-7	09/12/01	1814	5.72	17.42
17	AR1660L37O	5-210-7	09/12/01	1838	5.73	17.42
18	AR1660L47G	5-209-7	09/12/01	1902	5.73	17.42
19	AR1660L57G	5-208-7	09/12/01	1926	5.73	17.42
20	PIBLK79	5-131-7	09/14/01	0408	5.73	17.43
21	AR1660L375	5-128-7	09/14/01	0432	5.74	17.43
22	PBLKSG	BL0816SG	09/14/01	0811	5.73	17.42
23	ELCS1	LC0816SG	09/14/01	0900	5.73	17.42
24	ELCS2	LD0816SG	09/14/01	0925	5.73	17.42
25	PIBLK7A	5-131-7	09/14/01	1038	5.73	17.43
26	AR1660L379	5-128-7	09/14/01	1102	5.73	17.42
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.: 29602 SAS No.: SDG No.: E02R5

GC Column: PEST I ID: 0.32(mm) Init. Calib. Date(s): 09/18/01

Instrument ID: HP_07A

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	RESC7I	5-171-7	09/18/01	1742	5.83	16.90
02	AR1660L17H	5-212-7	09/18/01	1807	5.82	16.90
03	AR1660L27H	5-211-7	09/18/01	1831	5.82	16.89
04	AR1660L37L	5-210-7	09/18/01	1855	5.82	16.89
05	AR1660L47H	5-209-7	09/18/01	1919	5.82	16.89
06	AR1660L57H	5-208-7	09/18/01	1943	5.82	16.89
07	AR1221L37H	5-420-6	09/18/01	2007	5.82	16.90
08	AR1232L37H	5-422-6	09/18/01	2032	5.83	16.90
09	AR1242L17H	5-11-7	09/18/01	2056	5.82	16.90
10	AR1242L27H	5-10-7	09/18/01	2120	5.82	16.89
11	AR1242L37H	5-9-7	09/18/01	2144	5.82	16.89
12	AR1242L47H	5-8-7	09/18/01	2208	5.82	16.89
13	AR1242L57H	5-7-7	09/18/01	2232	5.82	16.89
14	AR1248L37H	5-424-6	09/18/01	2256	5.82	16.90
15	AR1254L17H	5-6-7	09/18/01	2320	5.82	16.90
16	AR1254L27H	5-5-7	09/18/01	2344	5.82	16.90
17	AR1254L37H	5-4-7	09/19/01	0008	5.82	16.90
18	AR1254L47H	5-3-7	09/19/01	0032	5.82	16.89
19	AR1254L57H	5-2-7	09/19/01	0055	5.82	16.89
20	PIBLK7G	5-131-7	09/19/01	0119	5.82	16.90
21	E02R5	47294.01	09/19/01	0255	5.82	16.89
22	E02R6	47294.02	09/19/01	0319	5.83	16.89
23	E02R7	47294.03	09/19/01	0343	5.83	16.89
24	E02R8	47294.04	09/19/01	0407	5.83	16.89
25	E02R9	47294.05	09/19/01	0431	5.82	16.89
26	E02S0	47294.06	09/19/01	0455	5.82	16.88
27	E02S1	47294.07	09/19/01	0519	5.82	16.88
28	E02S2	47294.08	09/19/01	0543	5.82	16.89
29	PIBLK7H	5-131-7	09/19/01	0655	5.83	16.90
30	AR1660L37N	5-128-7	09/19/01	0719	5.83	16.89
31	E02S3	47294.09	09/19/01	0817	5.84	16.90
32	E02S4	47294.10	09/19/01	0841	5.83	16.89
33	E02S5	47294.11	09/19/01	0905	5.83	16.89
34	E02S6	47294.12	09/19/01	0930	5.83	16.89
35	E02S7	47294.13	09/19/01	0954	5.83	16.89

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.: 29602 SAS No.: SDG No.: E02R5

GC Column: PEST I ID: 0.32(mm) Init. Calib. Date(s): 09/18/01

Instrument ID: HP_07A

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	E02S8	47294.14	09/19/01	1018	5.83	16.89
02	E02S8MS	47294.15MS	09/19/01	1043	5.83	16.89
03	E02S8MSD	47294.16MSD	09/19/01	1107	5.83	16.88
04	PIBLK7I	5-131-7	09/19/01	1404	5.83	16.90
05	AR1660L37P	5-128-7	09/19/01	1429	5.82	16.89
06	PIBLK7J	5-131-7	09/20/01	0830	5.83	16.90
07	AR1660L37R	5-128-7	09/20/01	0855	5.83	16.90
08	E02R5DL	47294.01DL	09/20/01	0952	5.83	16.89
09	E02S5DL	47294.11DL	09/20/01	1016	5.83	16.89
10	PIBLK7K	5-131-7	09/20/01	1043	5.83	16.90
11	AR1660L37T	5-128-7	09/20/01	1107	5.82	16.89
12						
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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.: 29602 SAS No.: SDG No.: E02R5

GC Column: PEST II ID: 0.32(mm) Init. Calib. Date(s): 09/18/01

Instrument ID: HP_07B

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	RESC7I	5-171-7	09/18/01	1742	5.73	17.42
02	AR1660L17H	5-212-7	09/18/01	1807	5.72	17.41
03	AR1660L27H	5-211-7	09/18/01	1831	5.73	17.41
04	AR1660L37L	5-210-7	09/18/01	1855	5.73	17.41
05	AR1660L47H	5-209-7	09/18/01	1919	5.73	17.41
06	AR1660L57H	5-208-7	09/18/01	1943	5.73	17.41
07	AR1221L37H	5-420-6	09/18/01	2007	5.73	17.42
08	AR1232L37H	5-422-6	09/18/01	2032	5.73	17.42
09	AR1242L17H	5-11-7	09/18/01	2056	5.72	17.42
10	AR1242L27H	5-10-7	09/18/01	2120	5.72	17.41
11	AR1242L37H	5-9-7	09/18/01	2144	5.73	17.41
12	AR1242L47H	5-8-7	09/18/01	2208	5.73	17.41
13	AR1242L57H	5-7-7	09/18/01	2232	5.73	17.41
14	AR1248L37H	5-424-6	09/18/01	2256	5.73	17.42
15	AR1254L17H	5-6-7	09/18/01	2320	5.72	17.42
16	AR1254L27H	5-5-7	09/18/01	2344	5.73	17.42
17	AR1254L37H	5-4-7	09/19/01	0008	5.72	17.42
18	AR1254L47H	5-3-7	09/19/01	0032	5.73	17.41
19	AR1254L57H	5-2-7	09/19/01	0055	5.73	17.41
20	PIBLK7G	5-131-7	09/19/01	0119	5.73	17.42
21	E02R5	47294.01	09/19/01	0255	5.72	17.40
22	E02R6	47294.02	09/19/01	0319	5.73	17.40
23	E02R7	47294.03	09/19/01	0343	5.73	17.40
24	E02R8	47294.04	09/19/01	0407	5.73	17.40
25	E02R9	47294.05	09/19/01	0431	5.72	17.41
26	E02S0	47294.06	09/19/01	0455	5.73	17.40
27	E02S1	47294.07	09/19/01	0519	5.72	17.40
28	E02S2	47294.08	09/19/01	0543	5.73	17.41
29	PIBLK7H	5-131-7	09/19/01	0655	5.73	17.42
30	AR1660L37N	5-128-7	09/19/01	0719	5.73	17.41
31	E02S3	47294.09	09/19/01	0817	5.74	17.42
32	E02S4	47294.10	09/19/01	0841	5.73	17.41
33	E02S5	47294.11	09/19/01	0905	5.73	17.41
34	E02S6	47294.12	09/19/01	0930	5.73	17.41
35	E02S7	47294.13	09/19/01	0954	5.73	17.41

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.: 29602 SAS No.: SDG No.: E02R5

GC Column: PEST II ID: 0.32(mm) Init. Calib. Date(s): 09/18/01

Instrument ID: HP_07B

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	E02S8	47294.14	09/19/01	1018	5.73	17.41
02	E02S8MS	47294.15MS	09/19/01	1043	5.73	17.40
03	E02S8MSD	47294.16MSD	09/19/01	1107	5.73	17.40
04	PIBLK7I	5-131-7	09/19/01	1404	5.73	17.41
05	AR1660L37P	5-128-7	09/19/01	1429	5.73	17.41
06	PIBLK7J	5-131-7	09/20/01	0830	5.73	17.42
07	AR1660L37R	5-128-7	09/20/01	0855	5.73	17.41
08	E02R5DL	47294.01DL	09/20/01	0952	5.73	17.41
09	E02S5DL	47294.11DL	09/20/01	1016	5.72	17.41
10	PIBLK7K	5-131-7	09/20/01	1043	5.73	17.42
11	AR1660L37T	5-128-7	09/20/01	1107	5.72	17.41
12						
13						
14						
15						
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18						
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21						
22						
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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 Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Lab Sample ID: LC0816SG Date(s) Analyzed: 09/14/01 09/14/01

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.47	10.41	10.51	116		
Aroclor-1254	2	11.02	10.96	11.06	121		
	3	11.87	11.81	11.91	115		
COLUMN 1	4	12.84	12.78	12.88	116		
	5	13.41	13.36	13.46	122	120	
	1	10.88	10.82	10.92	127		
	2	11.30	11.24	11.34	135		
	3	12.27	12.23	12.33	95.1		
COLUMN 2	4	13.09	13.04	13.14	114		
	5	13.78	13.75	13.85	116	120	0.0
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Lab Sample ID: LD0816SG Date(s) Analyzed: 09/14/01 09/14/01

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.46	10.41	10.51	145		
Aroclor-1254	2	11.02	10.96	11.06	153		
	3	11.87	11.81	11.91	143		
COLUMN 1	4	12.84	12.78	12.88	140		
	5	13.40	13.36	13.46	148	150	
	1	10.88	10.82	10.92	165		
	2	11.29	11.24	11.34	175		
	3	12.26	12.23	12.33	124		
COLUMN 2	4	13.08	13.04	13.14	135		
	5	13.78	13.75	13.85	140	150	0.0
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02R5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Lab Sample ID: 47294.01 Date(s) Analyzed: 09/19/01 09/19/01

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	7.44	7.39	7.49	2410		
Aroclor-1242	2	8.46	8.42	8.52	5780		
	3	8.76	8.72	8.82	2040		
COLUMN 1	4	9.20	9.15	9.25	5010		
	5	9.64	9.59	9.69	3770	3800	
	1	7.72	7.67	7.77	3080		
	2	8.68	8.67	8.77	8840		
	3	8.97	8.95	9.05	2160		
COLUMN 2	4	9.49	9.46	9.56	5900		
	5	9.97	9.94	10.04	5200	5000	31.6
	1	10.45	10.41	10.51	970		
Aroclor-1254	2	11.01	10.96	11.06	1480		
	3	11.84	11.82	11.92	1100		
COLUMN 1	4	12.81	12.79	12.89	969		
	5	13.37	13.36	13.46	634	1000	
	1	10.86	10.82	10.92	3510		
	2	11.26	11.24	11.34	1360		
	3	12.21	12.23	12.33	1300		
COLUMN 2	4	13.05	13.04	13.14	1100		
	5	13.74	13.74	13.84	773	1600	60.0
	1	12.23	12.18	12.28	402		
Aroclor-1260	2	12.81	12.78	12.88	539		
	3	13.37	13.36	13.46	607		
COLUMN 1	4	14.05	14.01	14.11	191		
	5	14.60	14.57	14.67	173	380	
	1	12.62	12.59	12.69	546		
	2	13.05	13.03	13.13	702		
	3	13.38	13.35	13.45	684		
COLUMN 2	4	14.43	14.40	14.50	244		
	5	14.86	14.84	14.94	225	480	26.3

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02R5DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Lab Sample ID: 47294.01DL Date(s) Analyzed: 09/20/01 09/20/01

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	7.46	7.39	7.49	2830		
Aroclor-1242	2	8.48	8.42	8.52	5470		
	3	8.78	8.72	8.82	2210		
COLUMN 1	4	9.22	9.15	9.25	5110		
	5	9.66	9.59	9.69	3990	3900	
	1	7.73	7.67	7.77	2790		
	2	8.70	8.67	8.77	5540		
	3	8.99	8.95	9.05	2110		
COLUMN 2	4	9.51	9.46	9.56	4890		
	5	9.98	9.94	10.04	3920	3900	0.0
	1						
Aroclor-1254	2	11.03	10.96	11.06	1550		
	3	11.86	11.82	11.92	1070		
COLUMN 1	4	12.83	12.79	12.89	1050		
	5	13.39	13.36	13.46	596	1100	
	1						
	2	11.27	11.24	11.34	1140		
	3	12.23	12.23	12.33	889		
COLUMN 2	4	13.06	13.04	13.14	975		
	5	13.75	13.74	13.84	526	880	25.0
	1	12.24	12.18	12.28	473		
Aroclor-1260	2	12.83	12.78	12.88	582		
	3	13.39	13.36	13.46	570		
COLUMN 1	4	14.06	14.01	14.11	213		
	5	14.62	14.57	14.67	179	400	
	1	12.63	12.59	12.69	484		
	2	13.06	13.03	13.13	621		
	3	13.35	13.35	13.45	518		
COLUMN 2	4	14.44	14.40	14.50	187		
	5	14.87	14.84	14.94	174	400	0.0

At least 3 peaks are required for identification of multicomponent analytes

FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02R6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Lab Sample ID: 47294.02 Date(s) Analyzed: 09/19/01 09/19/01

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	12.22	12.18	12.28	13.5		
Aroclor-1260	2						
	3	13.39	13.36	13.46	20.0		
COLUMN 1	4	14.05	14.01	14.11	29.6		
	5	14.60	14.57	14.67	26.5	22	
	1	12.62	12.59	12.69	9.6		
	2						
	3	13.38	13.35	13.45	9.5		
COLUMN 2	4	14.44	14.40	14.50	27.3		
	5	14.86	14.84	14.94	26.6	18	22.2
	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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FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02R9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Lab Sample ID: 47294.05 Date(s) Analyzed: 09/19/01 09/19/01

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1242 COLUMN 1	1	7.44	7.39	7.49	117		
	2	8.47	8.42	8.52	200		
	3	8.77	8.72	8.82	88.8		
	4	9.21	9.15	9.25	202		
	5	9.64	9.59	9.69	168	160	
Aroclor-1242 COLUMN 2	1	7.72	7.67	7.77	117		
	2	8.70	8.67	8.77	227		
	3	8.99	8.95	9.05	84.9		
	4	9.50	9.46	9.56	203		
	5	9.98	9.94	10.04	160	160	0.0
Aroclor-1254 COLUMN 1	1	10.46	10.41	10.51	41.7		
	2	11.02	10.96	11.06	55.9		
	3	11.85	11.82	11.92	37.1		
	4	12.82	12.79	12.89	27.8		
	5	13.38	13.36	13.46	19.8	36	
Aroclor-1254 COLUMN 2	1	10.88	10.82	10.92	91.8		
	2	11.27	11.24	11.34	39.6		
	3	12.23	12.23	12.33	29.0		
	4	13.06	13.04	13.14	22.4		
	5	13.75	13.74	13.84	14.9	40	11.1
Aroclor-1260 COLUMN 1	1	12.23	12.18	12.28	16.1		
	2	12.82	12.78	12.88	15.5		
	3	13.38	13.36	13.46	19.0		
	4	14.05	14.01	14.11	5.3		
	5	14.61	14.57	14.67	4.4	12	
Aroclor-1260 COLUMN 2	1	12.62	12.59	12.69	15.1		
	2	13.06	13.03	13.13	14.2		
	3	13.40	13.35	13.45	7.6		
	4	14.40	14.40	14.50	3.0		
	5	14.87	14.84	14.94	4.8	8.9	34.8

At least 3 peaks are required for identification of multicomponent analytes

FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02S3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Lab Sample ID: 47294.09 Date(s) Analyzed: 09/19/01 09/19/01

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	7.46	7.39	7.49	4.7		
Aroclor-1242	2	8.44	8.42	8.52	8.1		
	3	8.70	8.72	8.82	6.2		
COLUMN 1	4	9.22	9.15	9.25	6.3		
	5	9.66	9.59	9.69	4.1	5.9	
	1	7.73	7.67	7.77	3.8		
	2	8.72	8.67	8.77	2.2		
	3						
COLUMN 2	4	9.57	9.46	9.56	8.1		
	5	9.98	9.94	10.04	5.7	4.9	20.4
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02S4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Lab Sample ID: 47294.10 Date(s) Analyzed: 09/19/01 09/19/01

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	7.45	7.39	7.49	40.3		
Aroclor-1242	2	8.48	8.42	8.52	64.8		
	3	8.79	8.72	8.82	33.9		
COLUMN 1	4	9.21	9.15	9.25	70.9		
	5	9.65	9.59	9.69	56.1	53	
	1	7.72	7.67	7.77	33.0		
	2	8.71	8.67	8.77	57.4		
	3	9.00	8.95	9.05	34.7		
COLUMN 2	4	9.51	9.46	9.56	57.2		
	5	9.99	9.94	10.04	50.5	47	12.8
	1	10.46	10.41	10.51	22.5		
Aroclor-1254	2	11.13	10.96	11.06	31.9		
	3	11.86	11.82	11.92	19.0		
COLUMN 1	4	12.82	12.79	12.89	14.1		
	5	13.39	13.36	13.46	16.7	21	
	1						
	2	11.28	11.24	11.34	17.0		
	3	12.24	12.23	12.33	17.1		
COLUMN 2	4	13.06	13.04	13.14	13.0		
	5	13.76	13.74	13.84	9.7	14	50.0
	1	12.23	12.18	12.28	12.5		
Aroclor-1260	2	12.82	12.78	12.88	7.8		
	3	13.39	13.36	13.46	16.0		
COLUMN 1	4	14.06	14.01	14.11	6.0		
	5	14.62	14.57	14.67	5.9	9.6	
	1	12.63	12.59	12.69	8.3		
	2	13.06	13.03	13.13	8.3		
	3	13.35	13.35	13.45	9.3		
COLUMN 2	4	14.44	14.40	14.50	5.6		
	5	14.88	14.84	14.94	3.8	7.0	37.1

At least 3 peaks are required for identification of multicomponent analytes

FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02S5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Lab Sample ID: 47294.11 Date(s) Analyzed: 09/19/01 09/19/01

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1242 COLUMN 1	1	7.45	7.39	7.49	899		
	2	8.47	8.42	8.52	1670		
	3	8.76	8.72	8.82	1030		
	4	9.21	9.15	9.25	1580		
	5	9.64	9.59	9.69	1020	1200	
Aroclor-1242 COLUMN 2	1	7.72	7.67	7.77	931		
	2	8.69	8.67	8.77	2160		
	3	8.98	8.95	9.05	1160		
	4	9.50	9.46	9.56	1510		
	5	9.97	9.94	10.04	1220	1400	16.7
Aroclor-1254 COLUMN 1	1						
	2	11.02	10.96	11.06	656		
	3	11.85	11.82	11.92	599		
	4	12.82	12.79	12.89	647		
	5	13.38	13.36	13.46	343	560	
Aroclor-1254 COLUMN 2	1	10.87	10.82	10.92	1100		
	2	11.26	11.24	11.34	730		
	3	12.22	12.23	12.33	540		
	4	13.05	13.04	13.14	763		
	5	13.74	13.74	13.84	353	700	25.0
Aroclor-1260 COLUMN 1	1	12.23	12.18	12.28	209		
	2	12.82	12.78	12.88	360		
	3	13.38	13.36	13.46	329		
	4	14.05	14.01	14.11	133		
	5	14.61	14.57	14.67	82.8	220	
Aroclor-1260 COLUMN 2	1	12.62	12.59	12.69	251		
	2	13.05	13.03	13.13	486		
	3	13.34	13.35	13.45	226		
	4	14.44	14.40	14.50	134		
	5	14.87	14.84	14.94	136	250	13.6

At least 3 peaks are required for identification of multicomponent analytes

FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02S5DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Lab Sample ID: 47294.11DL Date(s) Analyzed: 09/20/01 09/20/01

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	7.45	7.39	7.49	1040		
Aroclor-1242	2	8.48	8.42	8.52	1570		
	3	8.77	8.72	8.82	1090		
COLUMN 1	4	9.21	9.15	9.25	1700		
	5	9.65	9.59	9.69	1100	1300	
	1	7.72	7.67	7.77	942		
	2	8.70	8.67	8.77	1500		
	3	8.98	8.95	9.05	1180		
COLUMN 2	4	9.50	9.46	9.56	1370		
	5	9.98	9.94	10.04	952	1200	8.3
	1						
Aroclor-1254	2	11.02	10.96	11.06	724		
	3	11.85	11.82	11.92	582		
COLUMN 1	4	12.82	12.79	12.89	726		
	5	13.38	13.36	13.46	287	580	
	1	10.87	10.82	10.92	783		
	2	11.26	11.24	11.34	593		
	3	12.22	12.23	12.33	417		
COLUMN 2	4	13.05	13.04	13.14	704		
	5	13.74	13.74	13.84	217	540	7.4
	1	12.23	12.18	12.28	244		
Aroclor-1260	2	12.82	12.78	12.88	404		
	3	13.38	13.36	13.46	274		
COLUMN 1	4	14.05	14.01	14.11	138		
	5	14.61	14.57	14.67	89.2	230	
	1	12.62	12.59	12.69	246		
	2	13.05	13.03	13.13	449		
	3	13.34	13.35	13.45	213		
COLUMN 2	4	14.44	14.40	14.50	108		
	5	14.86	14.84	14.94	114	230	0.0

At least 3 peaks are required for identification of multicomponent analytes

FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02S6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Lab Sample ID: 47294.12 Date(s) Analyzed: 09/19/01 09/19/01

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1260	1	12.23	12.18	12.28	10.2		
	2						
	3	13.40	13.36	13.46	13.3		
COLUMN 1	4	14.06	14.01	14.11	25.3		
	5	14.61	14.57	14.67	20.7	17	
	1	12.62	12.59	12.69	5.6		
	2						
	3						
COLUMN 2	4	14.44	14.40	14.50	23.9		
	5	14.86	14.84	14.94	20.5	17	0.0
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02S8MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Lab Sample ID: 47294.15MS Date(s) Analyzed: 09/19/01 09/19/01

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.46	10.41	10.51	148		
Aroclor-1254	2	11.01	10.96	11.06	157		
	3	11.85	11.82	11.92	155		
COLUMN 1	4	12.82	12.79	12.89	156		
	5	13.38	13.36	13.46	127	150	
	1	10.86	10.82	10.92	152		
	2	11.26	11.24	11.34	210		
	3	12.22	12.23	12.33	147		
COLUMN 2	4	13.05	13.04	13.14	153		
	5	13.74	13.74	13.84	124	160	6.7
	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

FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02S8MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Lab Sample ID: 47294.16MSD Date(s) Analyzed: 09/19/01 09/19/01

Instrument ID (1): HP_07A Instrument ID (2): HP_07B

GC Column (1): PEST I ID: 0.32(mm) GC Column (2): PEST II ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.46	10.41	10.51	138		
Aroclor-1254	2	11.01	10.96	11.06	150		
	3	11.85	11.82	11.92	145		
COLUMN 1	4	12.81	12.79	12.89	145		
	5	13.38	13.36	13.46	128	140	
	1	10.86	10.82	10.92	139		
	2	11.26	11.24	11.34	192		
	3	12.22	12.23	12.33	137		
COLUMN 2	4	13.05	13.04	13.14	144		
	5	13.74	13.74	13.84	113	150	7.1
	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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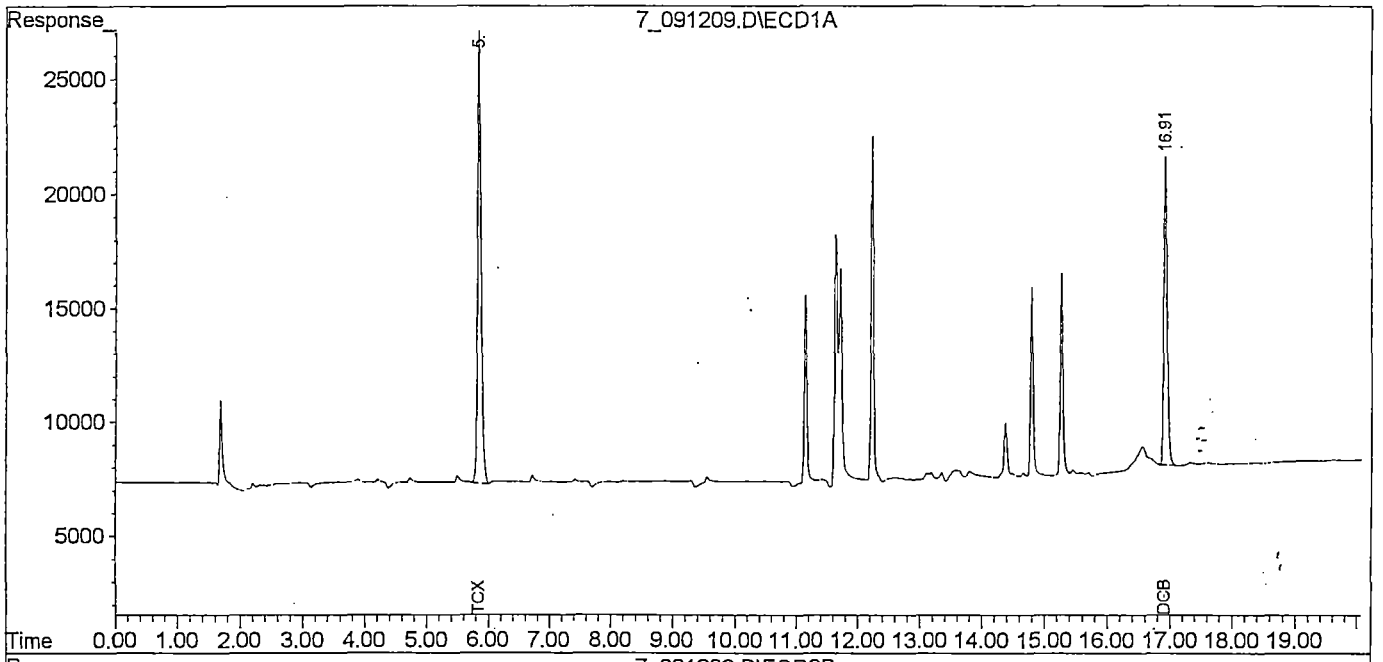
FORM X PCB

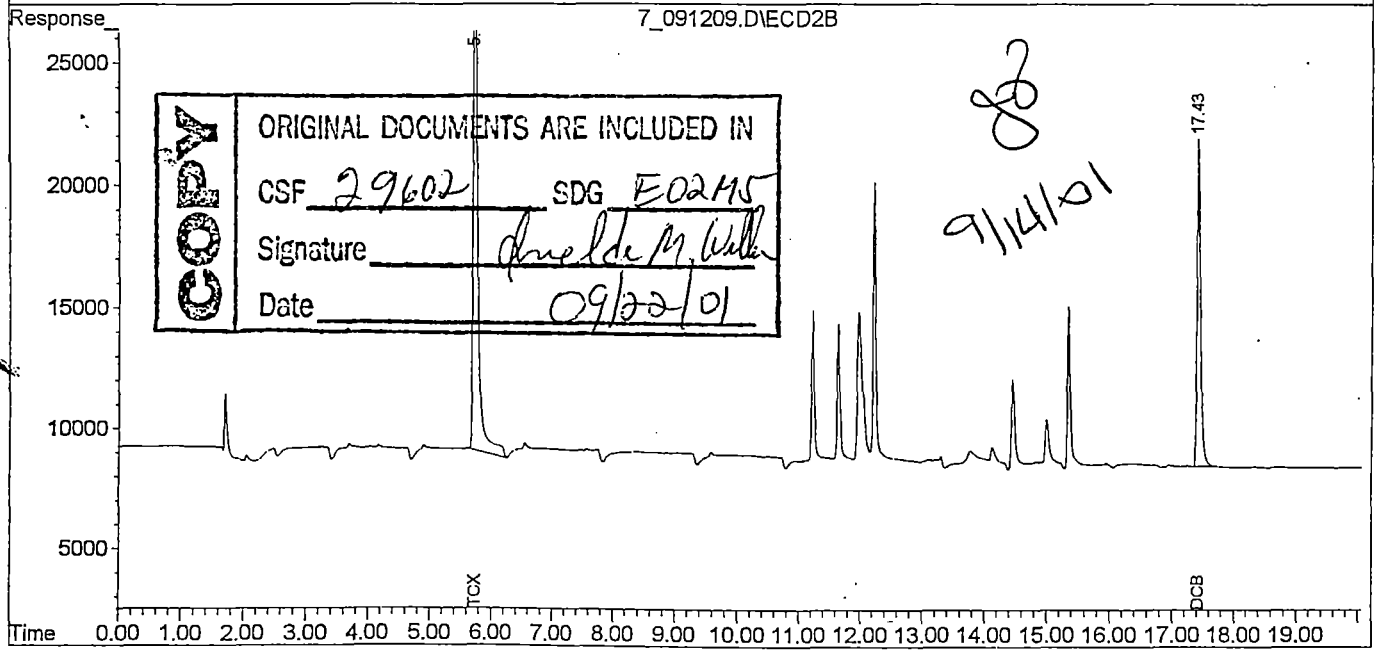
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091209.D\ECD1A.CH Vial: 1
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091209.D\ECD2B.CH
Acq On : 12 Sep 2001 12:05 Operator: SA
Sample : RESC7H Inst : HP_07
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 12 15:23 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_06_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29602 SDG E0245
Signature Arnelda M. Wilk
Date 09/22/01

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9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091209.D\ECD1A.CH Vial: 1
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091209.D\ECD2B.CH
Acq On : 12 Sep 2001 12:05 Operator: SA
Sample : RESC7H Inst : HP_07
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 12 15:23 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_06_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.84	5.74f	772515	1156877	17.6	20.4
22)	S DCB	16.91	17.43	489885	548851	20.1	19.8

Target Compounds:

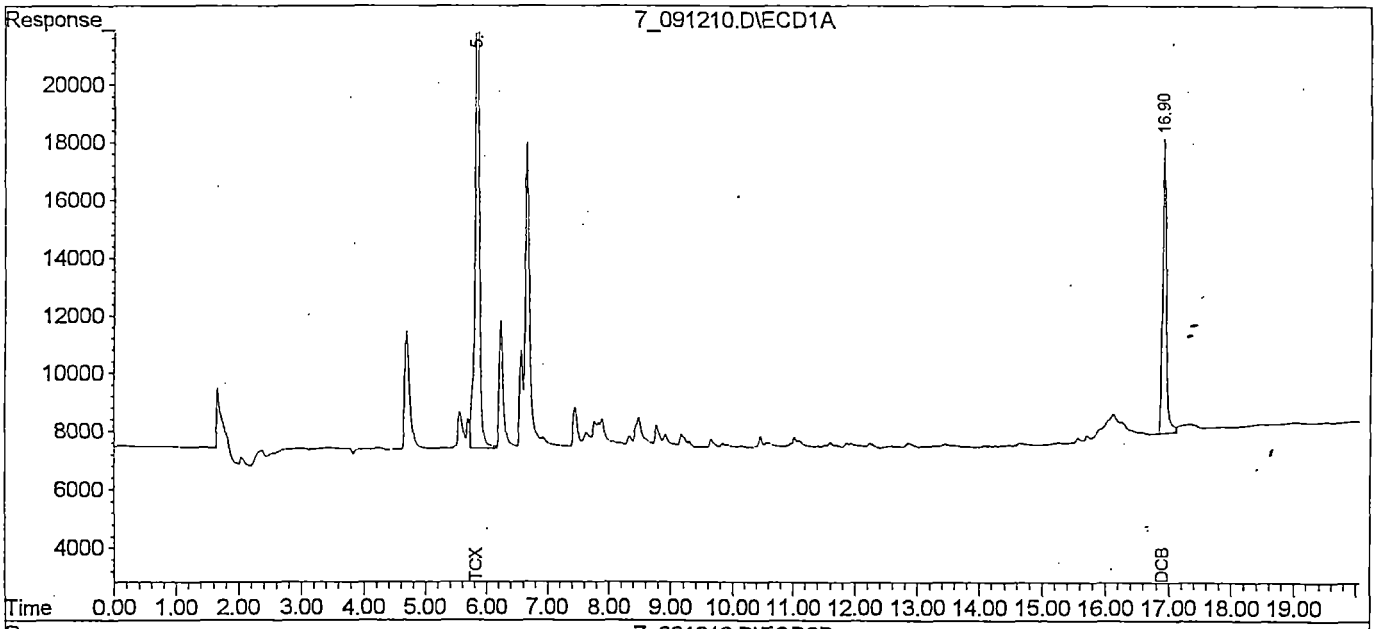
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

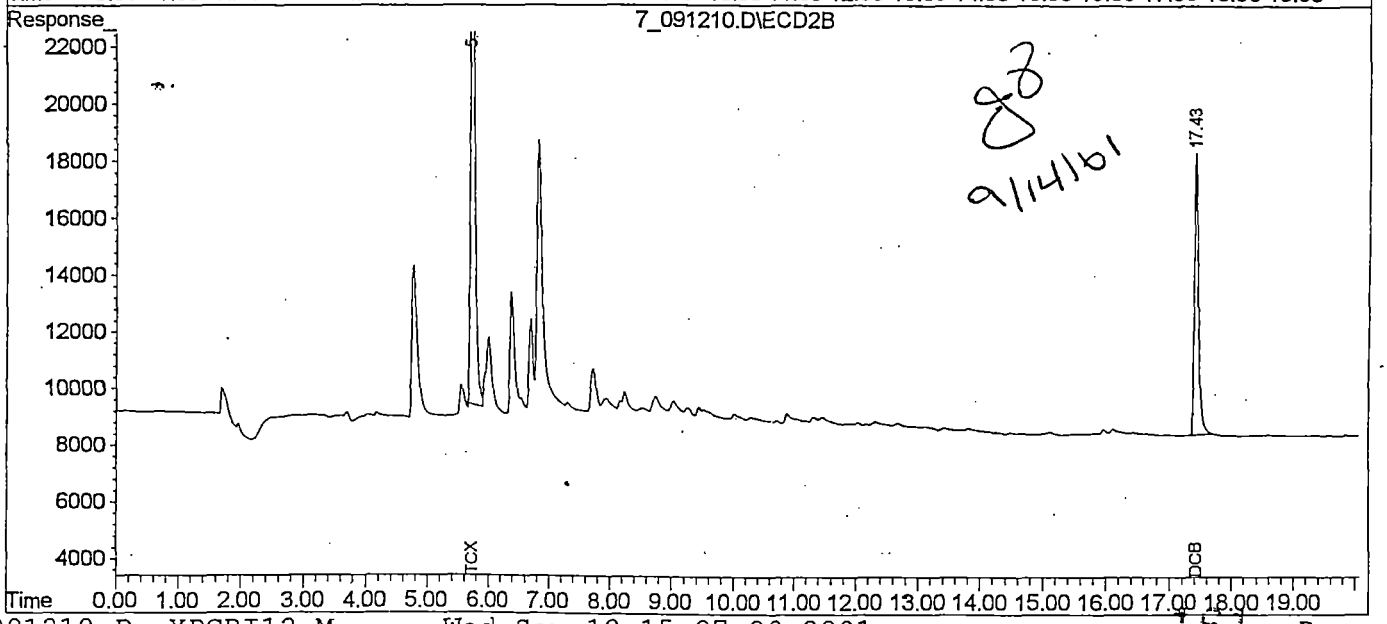
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091210.D\ECD1A.CH Vial: 2
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091210.D\ECD2B.CH
Acq On : 12 Sep 2001 12:29 Operator: SA
Sample : AR1221L37G Inst : HP_07
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 12 15:24 2001 Quant Results File: XPCBI12.RES
Quant Time: Sep 12 15:26 2001 Quant Results File: xspcbi12.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_06_01\
Last Update : Tue Aug 21 10:09:28 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_12_01\xspcbi12.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





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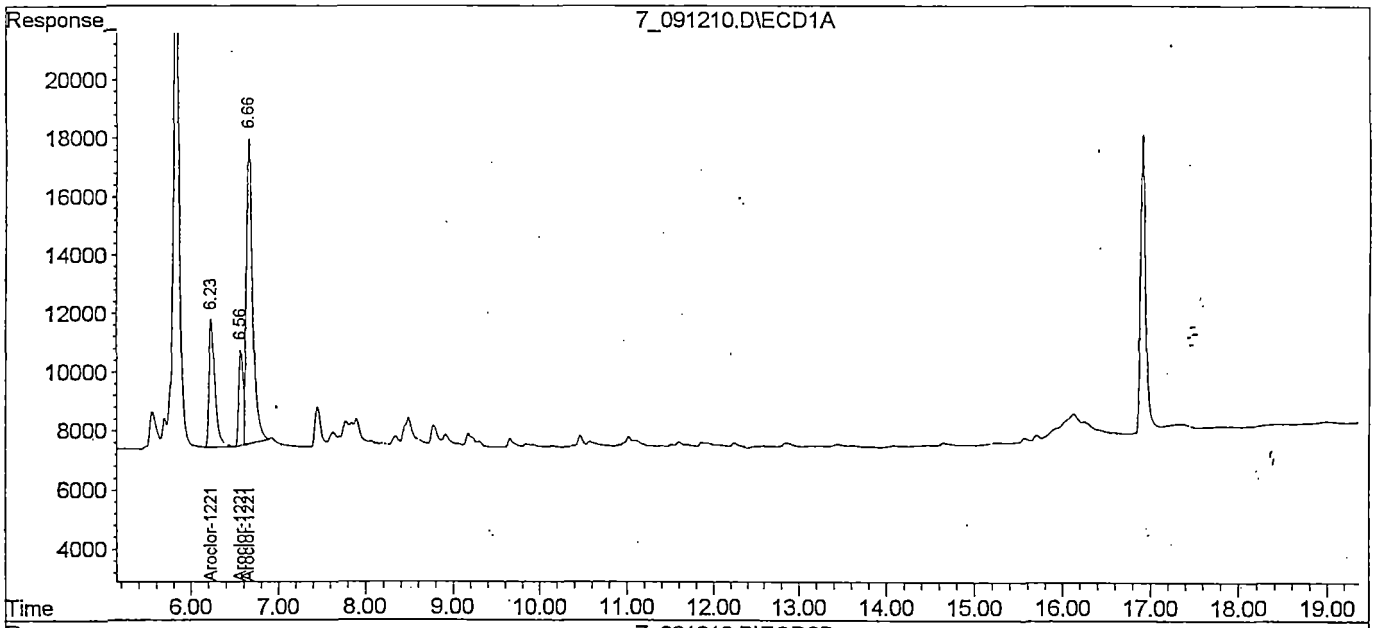
9/14/01

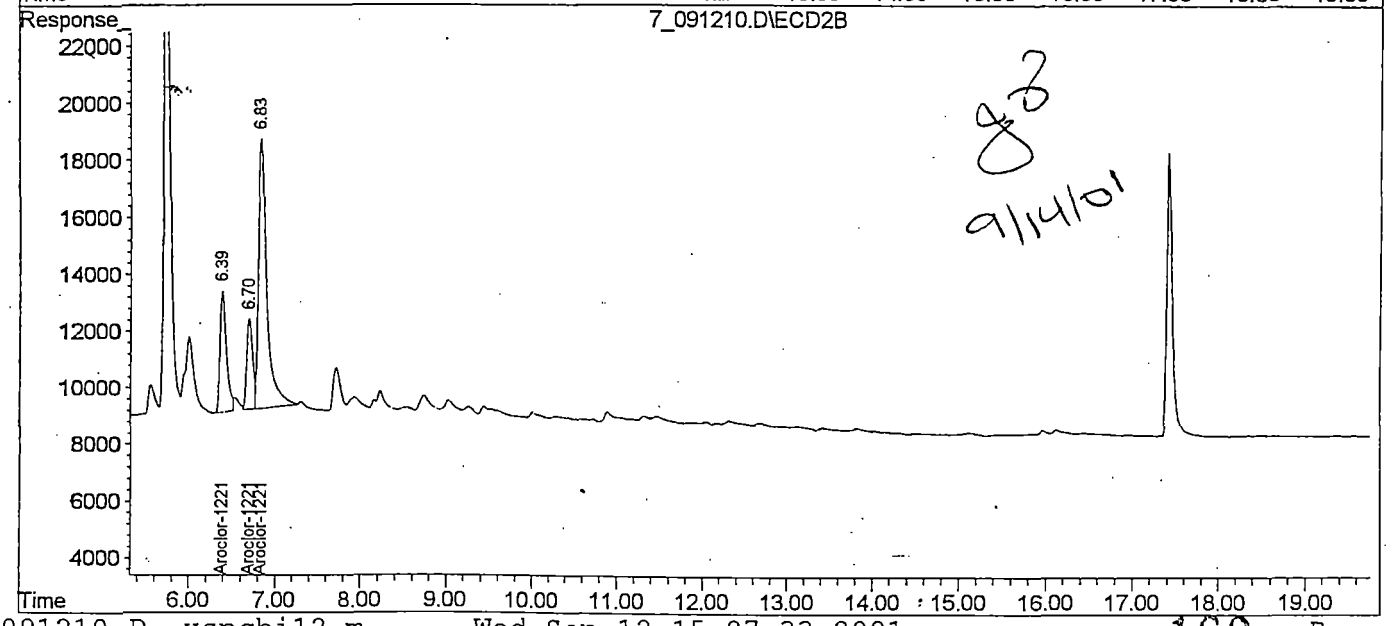
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091210.D\ECD1A.CH Vial: 2
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091210.D\ECD2B.CH
Acq On : 12 Sep 2001 12:29 Operator: SA
Sample : AR1221L37G Inst : HP_07
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 12 15:26 2001 Quant Results File: xspcbi12.RES
Quant Time: Sep 12 15:26 2001 Quant Results File: xspcbi12.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_06_01\
Last Update : Tue Aug 21 10:09:28 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_12_01\xspcbi12.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





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9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091210.D\ECD1A.CH Vial: 2
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091210.D\ECD2B.CH
Acq On : 12 Sep 2001 12:29 Operator: SA
Sample : AR1221L37G Inst : HP_07
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 12 15:24 2001 Quant Results File: XPCBI12.RES
Multi Time: Sep 12 15:26 2001 Quant Results File: xspcbi12.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_06_01\
Last Update : Tue Aug 21 10:09:28 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_12_01\xspcbi12.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.83f	5.73f	852892	965177	19.5	17.0
22)	S DCB	16.90f	17.43f	415339	448376	17.0	16.2
	Target Compounds:						
	Multi-Component Compounds:						
2)	L2 Aroclor-1221	6.23	6.39	201613	222184	373.2	339.8
3)	L2 Aroclor-1221 {2}	6.56	6.70	112536	148199	405.9	369.9
4)	L2 Aroclor-1221 {3}	6.66	6.83	520821	638797	383.9	326.8
	Sum Aroclor-1221			834970	1009180	1163.1	1036.5
	Average Aroclor-1221					387.688	345.494

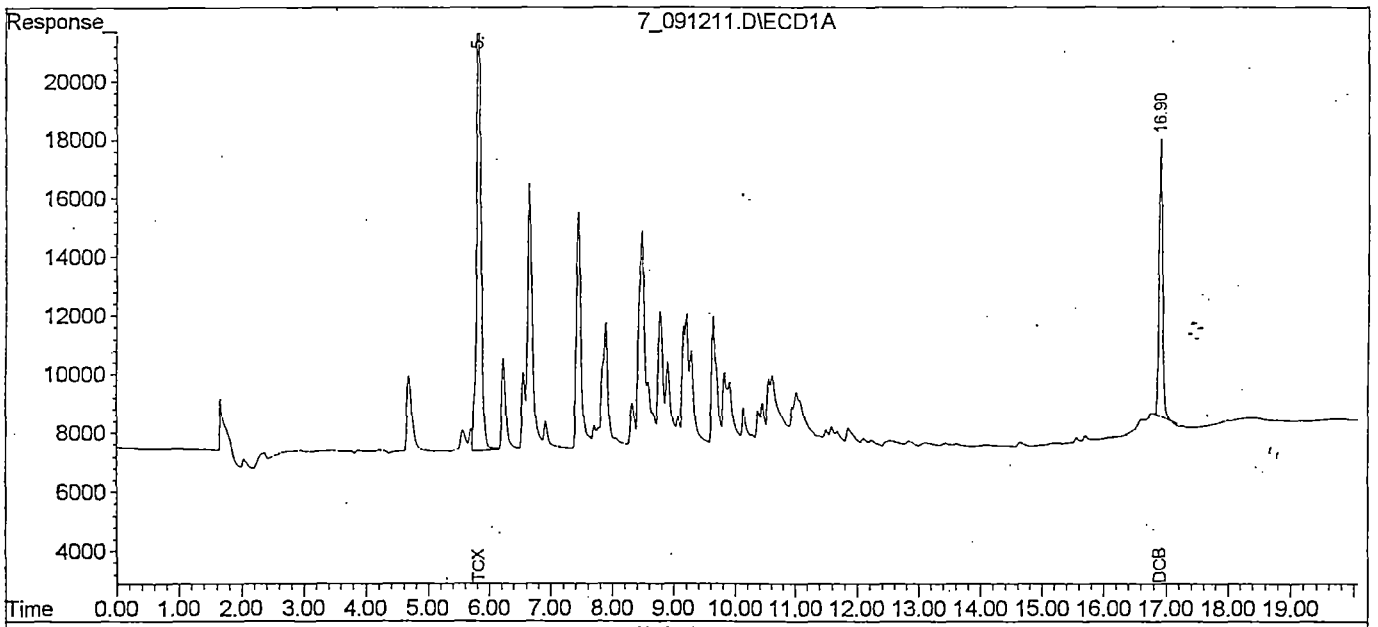
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

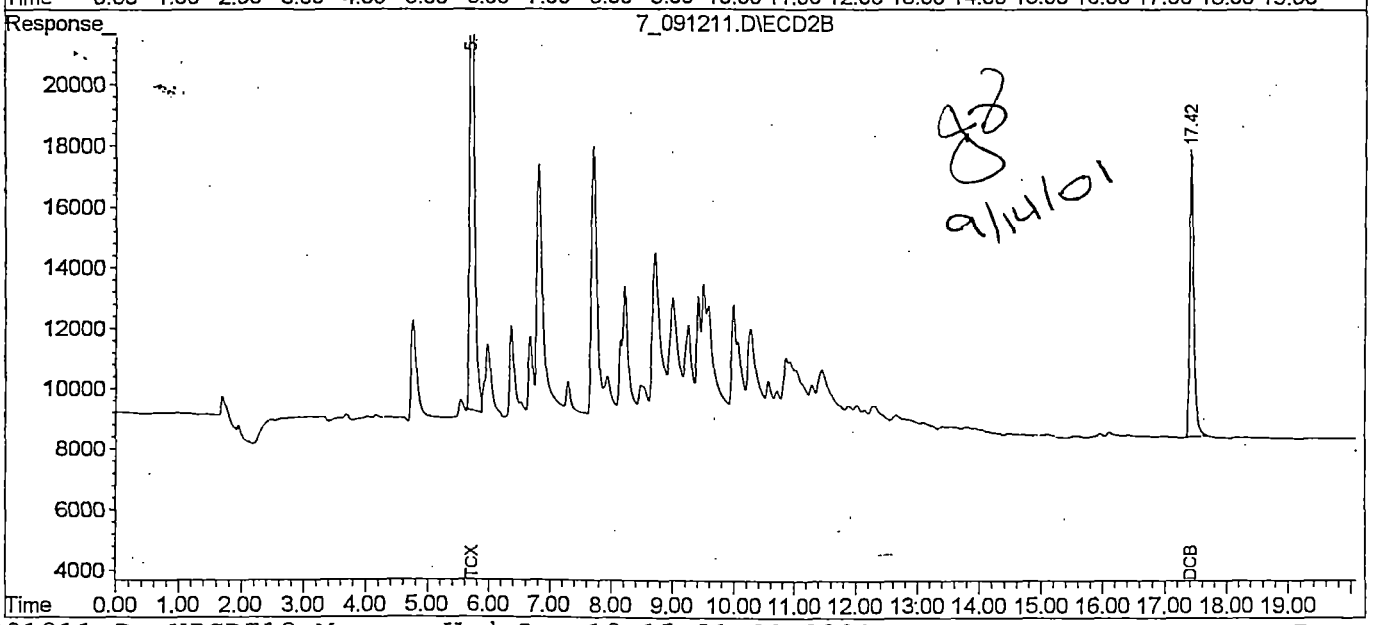
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091211.D\ECD1A.CH Vial: 3
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091211.D\ECD2B.CH
Acq On : 12 Sep 2001 12:53 Operator: SA
Sample : AR1232L37G Inst : HP_07
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 12 15:27 2001 Quant Results File: XPCBI12.RES
Quant Time: Sep 12 15:30 2001 Quant Results File: xspcbi12.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_06_01\
Last Update : Tue Aug 21 10:09:28 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_12_01\xspcbi12.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





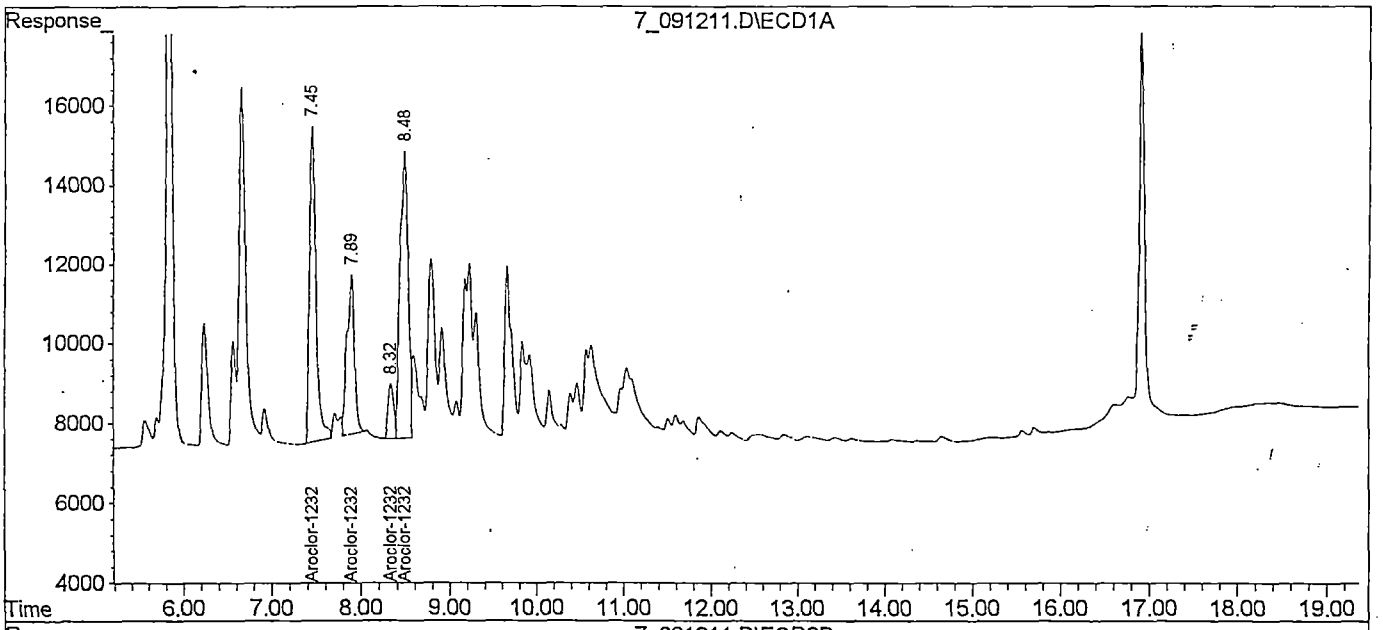
9/14/01

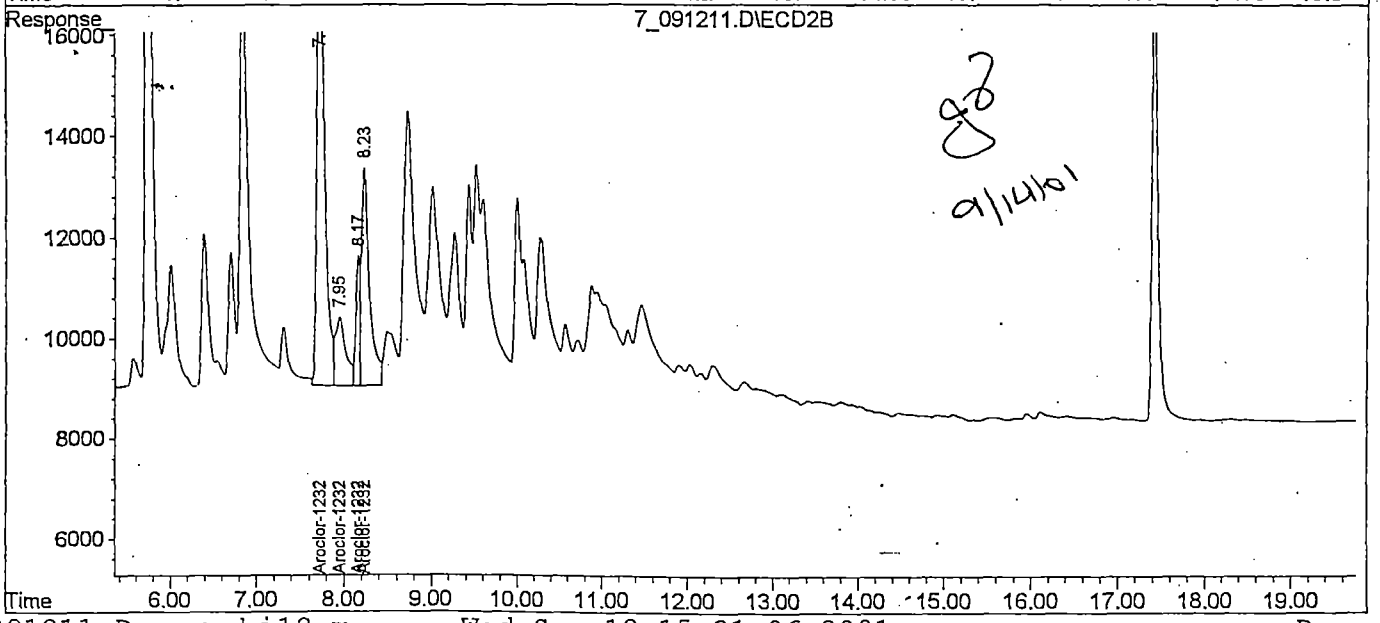
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091211.D\ECD1A.CH Vial: 3
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091211.D\ECD2B.CH
Acq On : 12 Sep 2001 12:53 Operator: SA
Sample : AR1232L37G Inst : HP_07
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 12 15:30 2001 Quant Results File: xspcbi12.RES
Quant Time: Sep 12 15:30 2001 Quant Results File: xspcbi12.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_06_01\
Last Update : Tue Aug 21 10:09:28 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_12_01\xspcbi12.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091211.D\ECD1A.CH Vial: 3
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091211.D\ECD2B.CH
Acq On : 12 Sep 2001 12:53 Operator: SA
Sample : AR1232L37G Inst : HP_07
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 12 15:27 2001 Quant Results File: XPCBI12.RES
Multi Time: Sep 12 15:30 2001 Quant Results File: xspcbi12.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_06_01\
Last Update : Tue Aug 21 10:09:28 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_12_01\xspcbi12.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.83f	5.73f	816129	955975	18.6	16.8
22)	S DCB	16.90f	17.42f	353988	428376	14.5	15.4
	Target Compounds:						
	Multi-Component Compounds:						
5)	L3 Aroclor-1232	7.45	7.72	418018	568107	336.9	330.6
6)	L3 Aroclor-1232 {2}	7.89	7.95	235906	118750	310.0	356.6
7)	L3 Aroclor-1232 {3}	8.32	8.17	59283	81025	337.2	385.3
8)	L3 Aroclor-1232 {4}	8.48	8.23	459642	277665	417.2	314.2
	Sum Aroclor-1232			1172848	1045548	1401.3	1386.7
	Average Aroclor-1232					350.325	346.663

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

Response Factor Report HP_07

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_06_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Calibration Files
L1 =7_091212.D L2 =7_091213.D L3 =7_091214.D
L4 =7_091215.D L5 =7_091216.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
7) Aroclor-1242	2.0	1.7	1.8	1.6	1.5	1.7 E3	12.23
8) Aroclor-1242 {2}	2.0	1.8	2.2	2.1	2.3	2.1 E3	8.41
9) Aroclor-1242 {3}	1.2	1.1	1.2	1.0	1.0	1.1 E3	7.45
10) Aroclor-1242 {4}	882.2	761.7	849.2	763.7	764.2	804.2	7.13
11) Aroclor-1242 {5}	1.3	1.1	1.3	1.2	1.2	1.2 E3	6.72

Signal #2 Calibration Files
L1 =7_091212.D L2 =7_091213.D L3 =7_091214.D
L4 =7_091215.D L5 =7_091216.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
30) Aroclor-1242 #2	2.5	2.3	2.4	2.2	2.2	2.3 E3	6.67
31) Aroclor-1242 {2} #2	2.1	1.9	2.3	2.3	2.7	2.3 E3	13.27
32) Aroclor-1242 {3} #2	1.9	1.6	1.7	1.5	1.5	1.7 E3	9.68
33) Aroclor-1242 {4} #2	1.1	0.9	1.0	1.0	1.0	1.0 E3	5.92
34) Aroclor-1242 {5} #2	1.0	0.9	1.0	0.9	1.0	0.9 E3	6.58

(#) = Out of Range

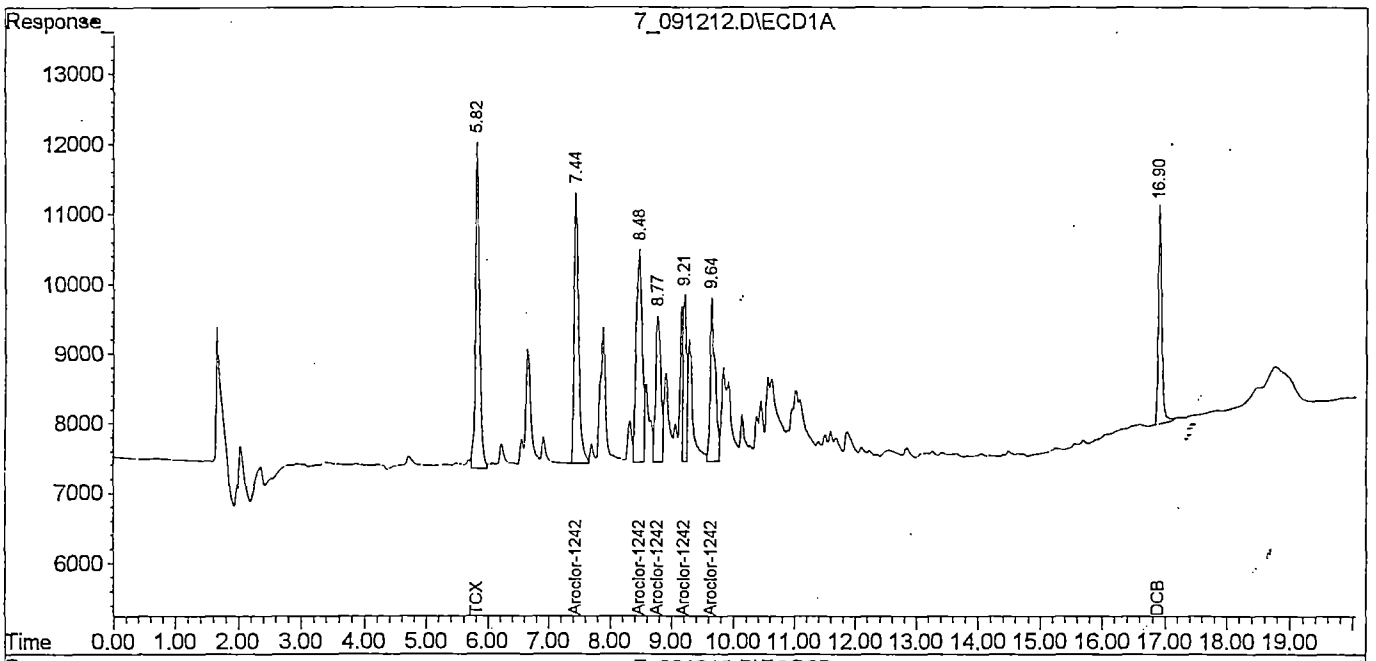
XPCBI12.M Wed Sep 12 15:38:40 2001

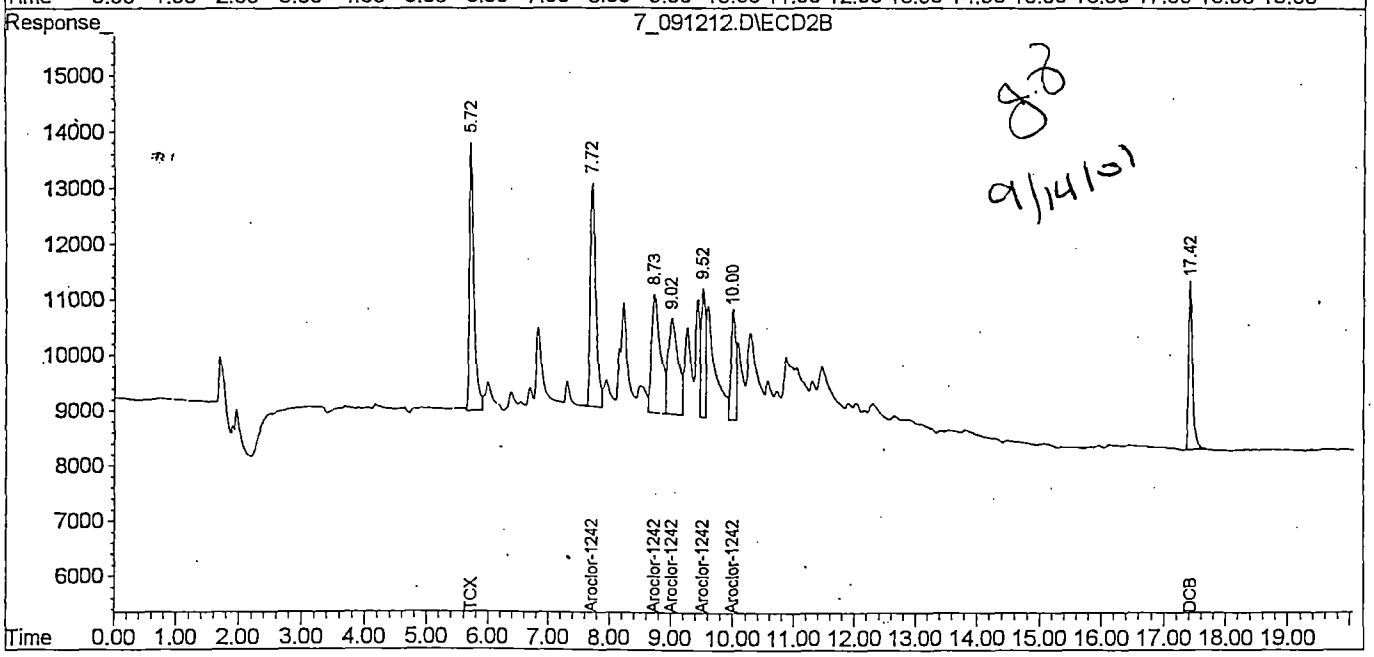
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091212.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091212.D\ECD2B.CH
Acq On : 12 Sep 2001 13:17 Operator: SA
Sample : AR1242L17G Inst : HP_07
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 12 15:32 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_06_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





8
9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091212.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091212.D\ECD2B.CH
Acq On : 12 Sep 2001 13:17 Operator: SA
Sample : AR1242L17G Inst : HP_07
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 12 15:32 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_06_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

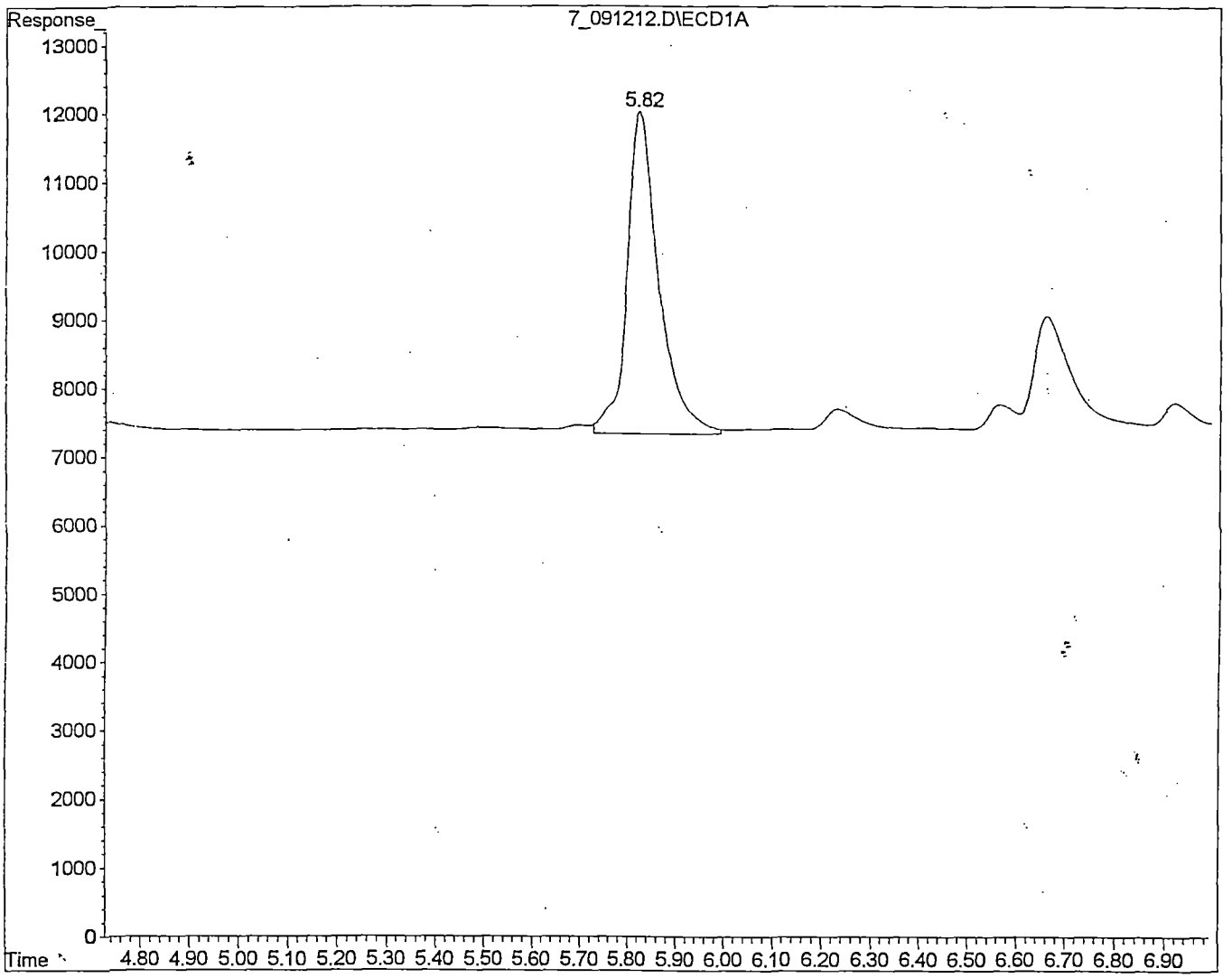
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82f	5.72f	213929	246537	4.885m	4.340m
22)	S DCB	16.90f	17.42f	122089	135575	4.999	4.888
	Target Compounds:						
7)	L4 Aroclor-1242	7.44	7.72	203012	253351	103.7	96.6
8)	L4 Aroclor-1242 {2}	8.48	8.74	200493	212439	95.6	99.4
9)	L4 Aroclor-1242 {3}	8.77	9.02	122628	192295	101.2	98.6
10)	L4 Aroclor-1242 {4}	9.21	9.52	88221	109517	95.3	93.6
11)	L4 Aroclor-1242 {5}	9.64	10.00	132077	100147	94.8	97.4
	Sum Aroclor-1242			746433	867748	490.6	485.6
	Average Aroclor-1242					98.113	97.115

ok 9.12.01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_12_01\7_091212.D
Date Acquired: 12 Sep 2001 13:17
Inst: HP_07 Operator ID: SA
Name: AR1242L17G
Misc: 5-11-7
Method: F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 12 15:32 2001 Quant Results File: XPCBI12.RES



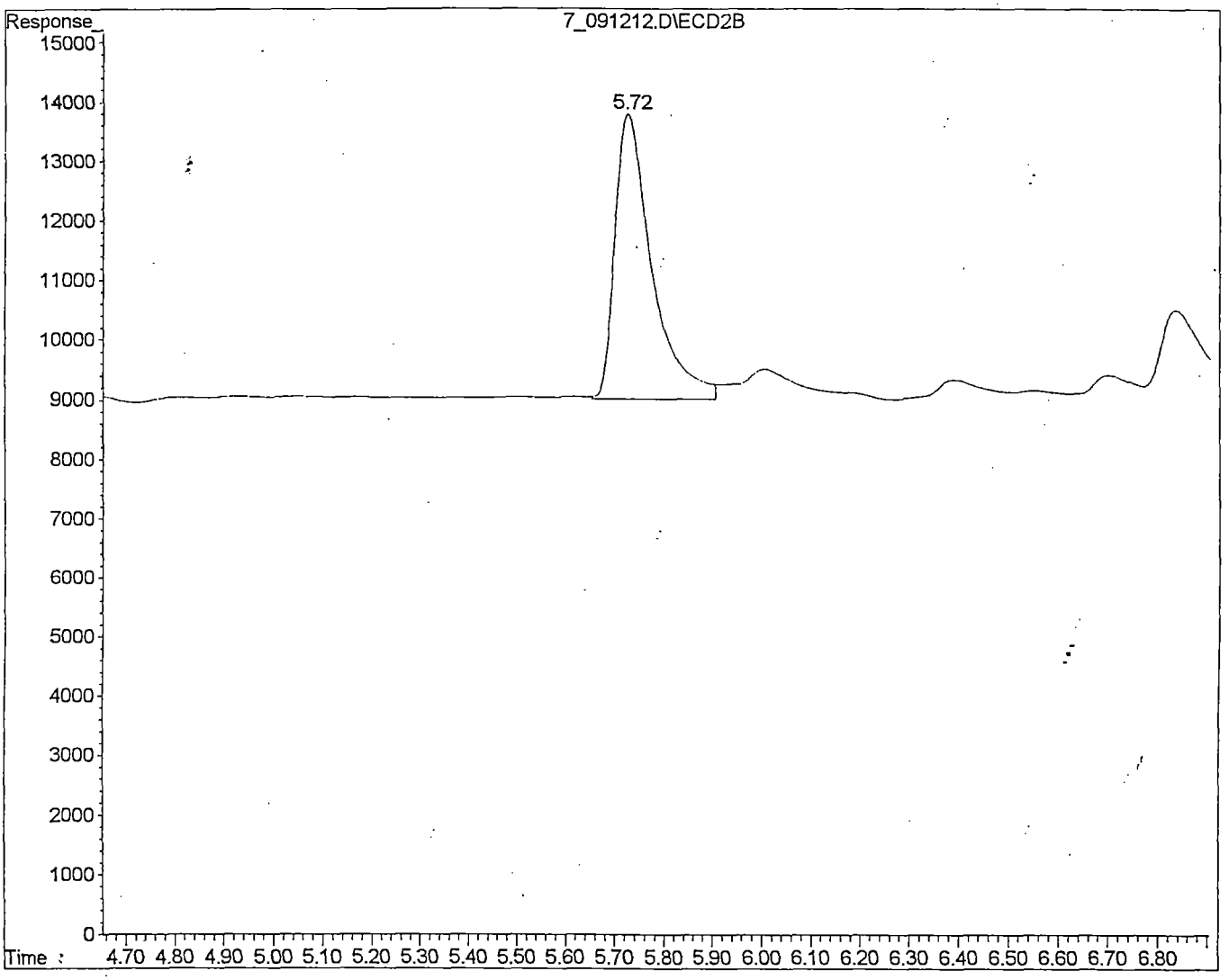
TCX 5.82min area: 213929 m

Integration Time Range: 5.73 - 5.99

F:\HPCHEM\HP\7\DATA\09_12_01\7_091212.D
Report generated: Wed Sep 12 15:40:27 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_12_01\7_091212.D
Date Acquired: 12 Sep 2001 13:17
Inst: HP_07 Operator ID: SA
Name: AR1242L17G
Misc: 5-11-7
Method: F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 12 15:32 2001 Quant Results File: XPCBI12.RES



AS 9.12.01

TCX #2 5.72min area: 246537 m

Integration Time Range: 5.65 - 5.90

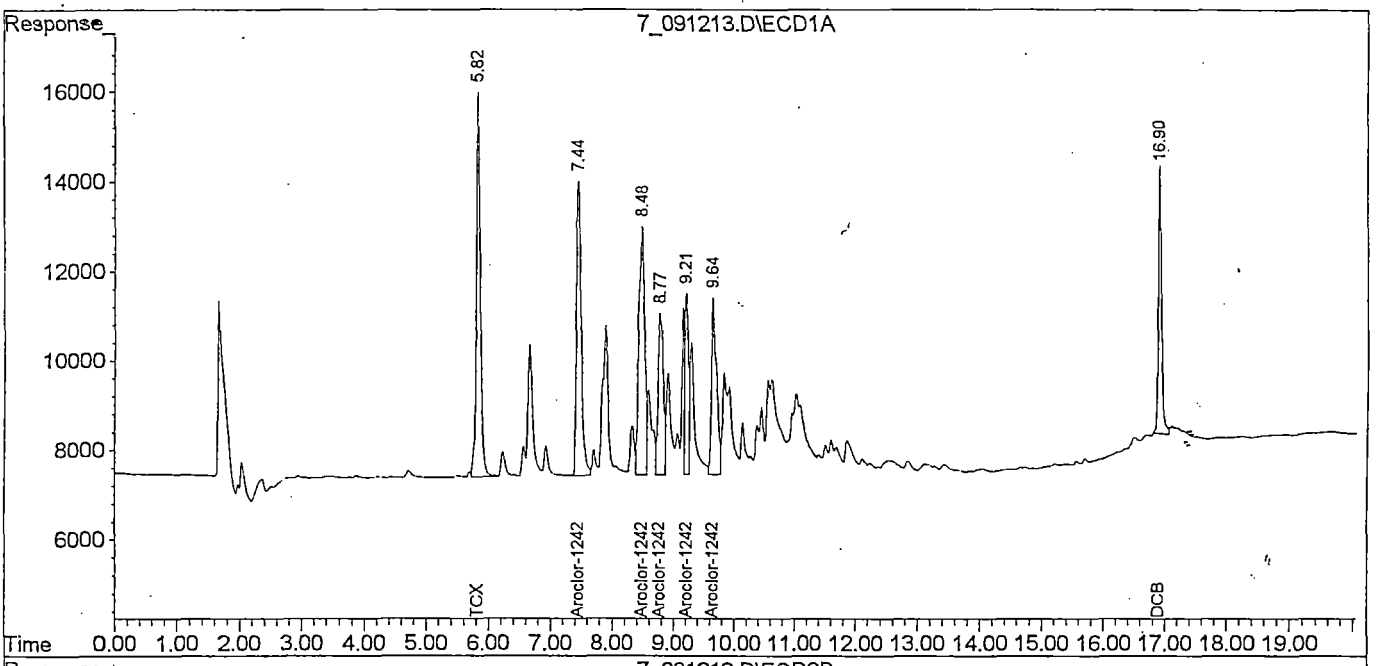
F:\HPCHEM\HP\7\DATA\09_12_01\7_091212.D
Report generated: Wed Sep 12 15:40:28 2001

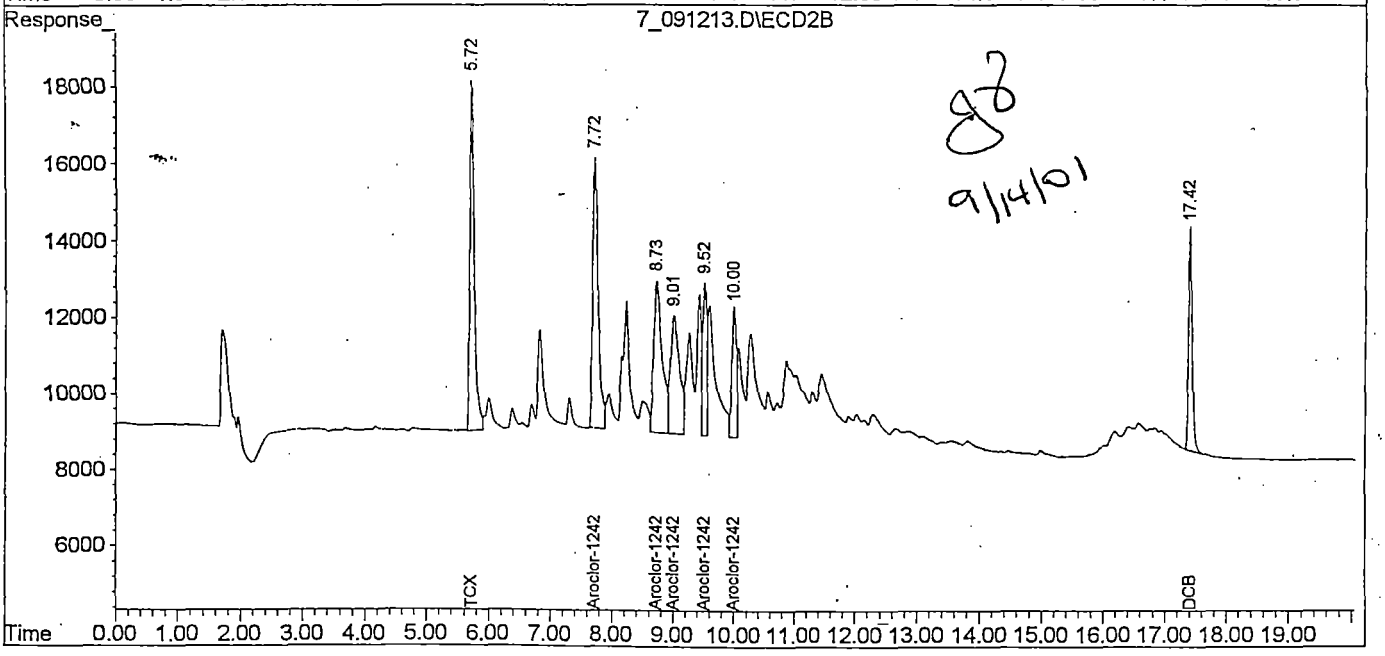
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091213.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091213.D\ECD2B.CH
Acq On : 12 Sep 2001 13:41 Operator: SA
Sample : AR1242L27G Inst : HP_07
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 12 15:33 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_06_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





gg
9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091213.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091213.D\ECD2B.CH
Acq On : 12 Sep 2001 13:41 Operator: SA
Sample : AR1242L27G Inst : HP_07
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 12 15:33 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_06_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82f	5.72f	384123	459283	8.771	8.086
22)	S DCB	16.90f	17.42f	222002	234608	9.090	8.459
	Target Compounds:						
7)	L4 Aroclor-1242	7.44	7.72	348406	450540	177.9	171.8
8)	L4 Aroclor-1242 {2}	8.48	8.73	361793	376253	172.5	176.0
9)	L4 Aroclor-1242 {3}	8.77	9.01	210840	322717	174.0	165.5
10)	L4 Aroclor-1242 {4}	9.21	9.52	152347	189006	164.6	161.5
11)	L4 Aroclor-1242 {5}	9.64	10.00	227097	170220	163.0	165.5
	Sum Aroclor-1242			1300482	1508736	852.0	840.4
	Average Aroclor-1242					170.397	168.070

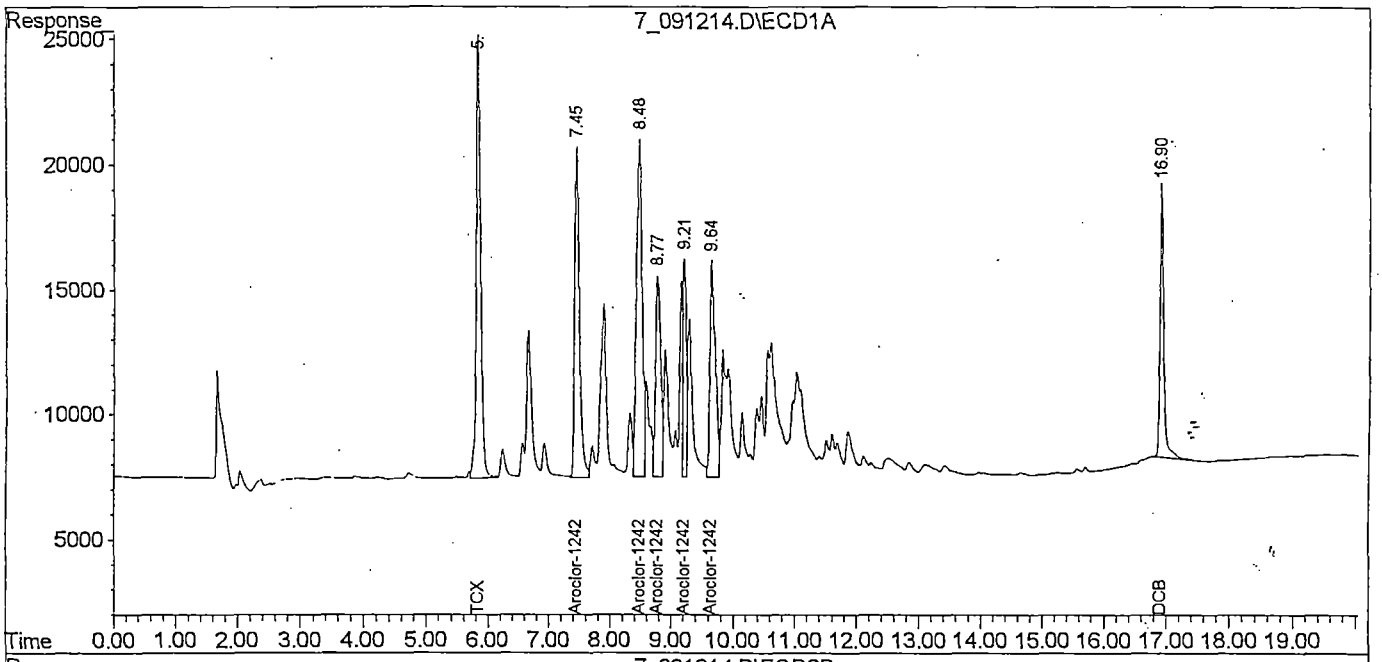
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

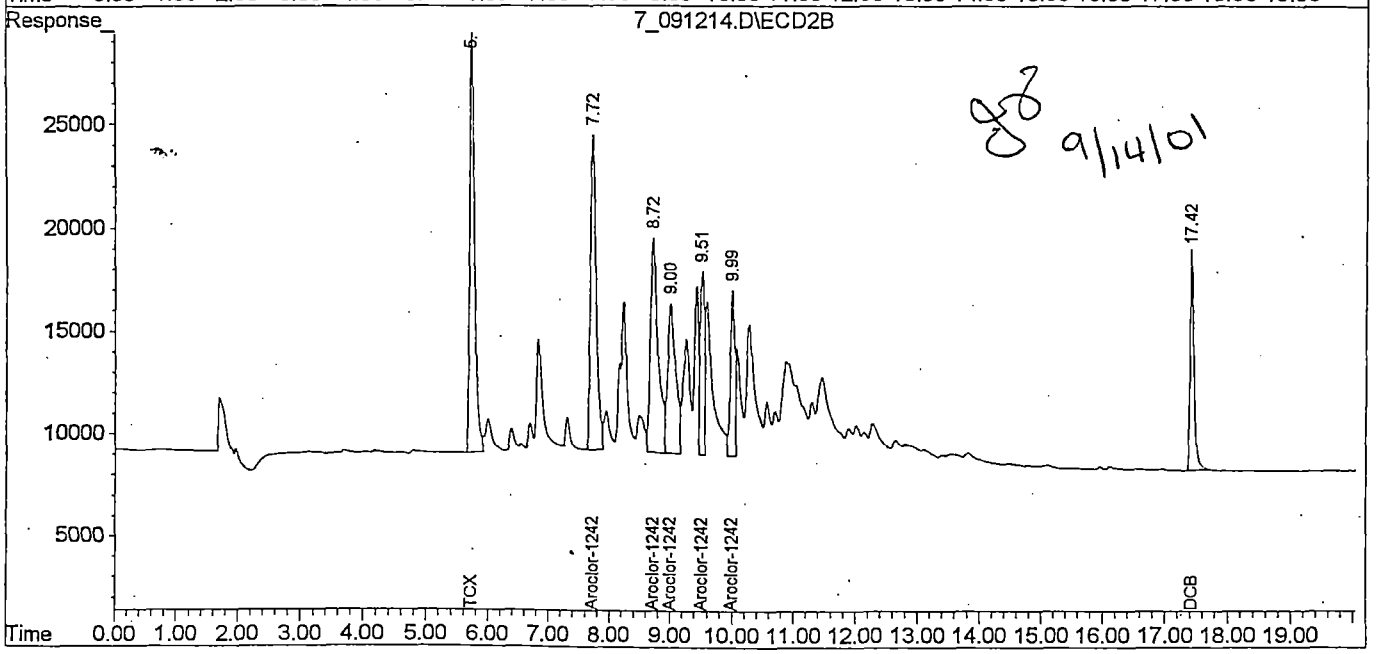
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091214.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091214.D\ECD2B.CH
Acq On : 12 Sep 2001 14:05 Operator: SA
Sample : AR1242L37G Inst : HP_07
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 12 15:34 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_06_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091214.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091214.D\ECD2B.CH
Acq On : 12 Sep 2001 14:05 Operator: SA
Sample : AR1242L37G Inst : HP_07
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 12 15:34 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_06_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.83f	5.73f	875459	1100355	20.0	19.4
22)	S DCB	16.90f	17.42f	449834	478575	18.4	17.3
	Target Compounds:						
7)	L4 Aroclor-1242	7.45	7.72	731332	968123	373.4	369.3
8)	L4 Aroclor-1242 {2}	8.48	8.72	869969	912198	414.8	426.7
9)	L4 Aroclor-1242 {3}	8.77	9.00	463118	683408	382.1	350.5
10)	L4 Aroclor-1242 {4}	9.21	9.52	339699	419644	367.0	358.6
11)	L4 Aroclor-1242 {5}	9.64	10.00	507120	386852	364.0	376.1
	Sum Aroclor-1242			2911239	3370225	1901.4	1881.1
	Average Aroclor-1242					380.278	376.229

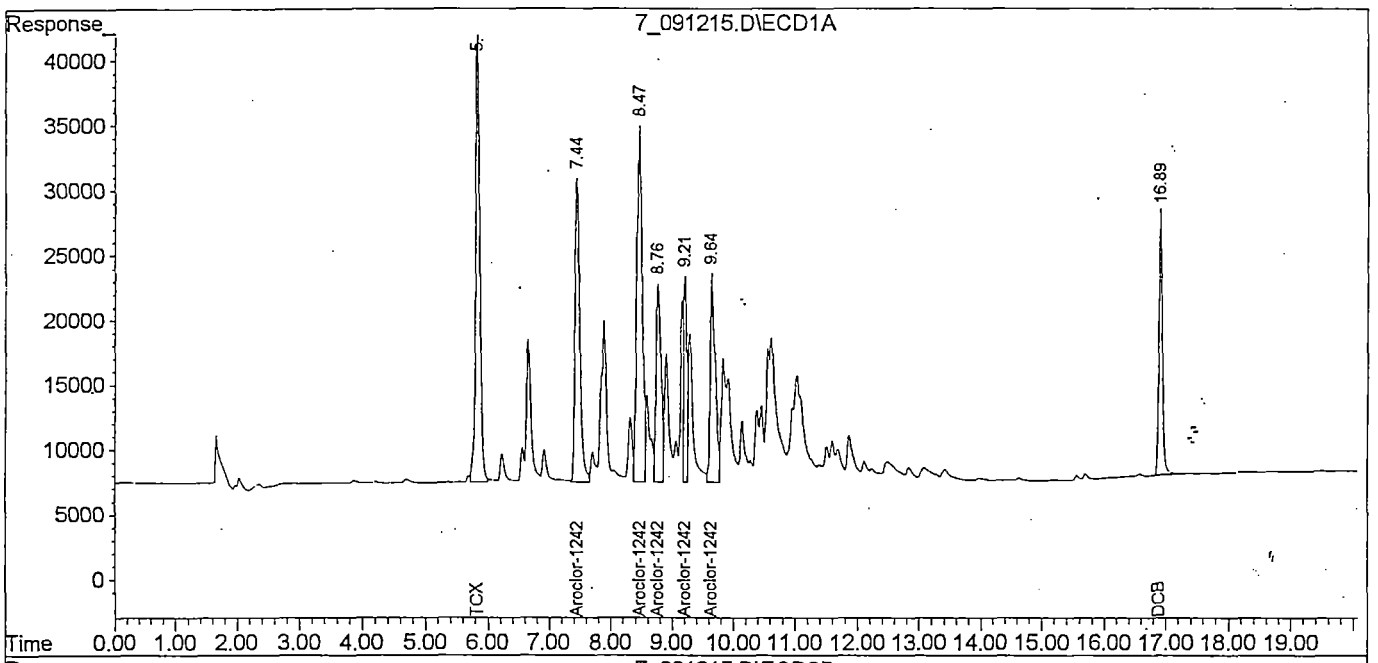
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

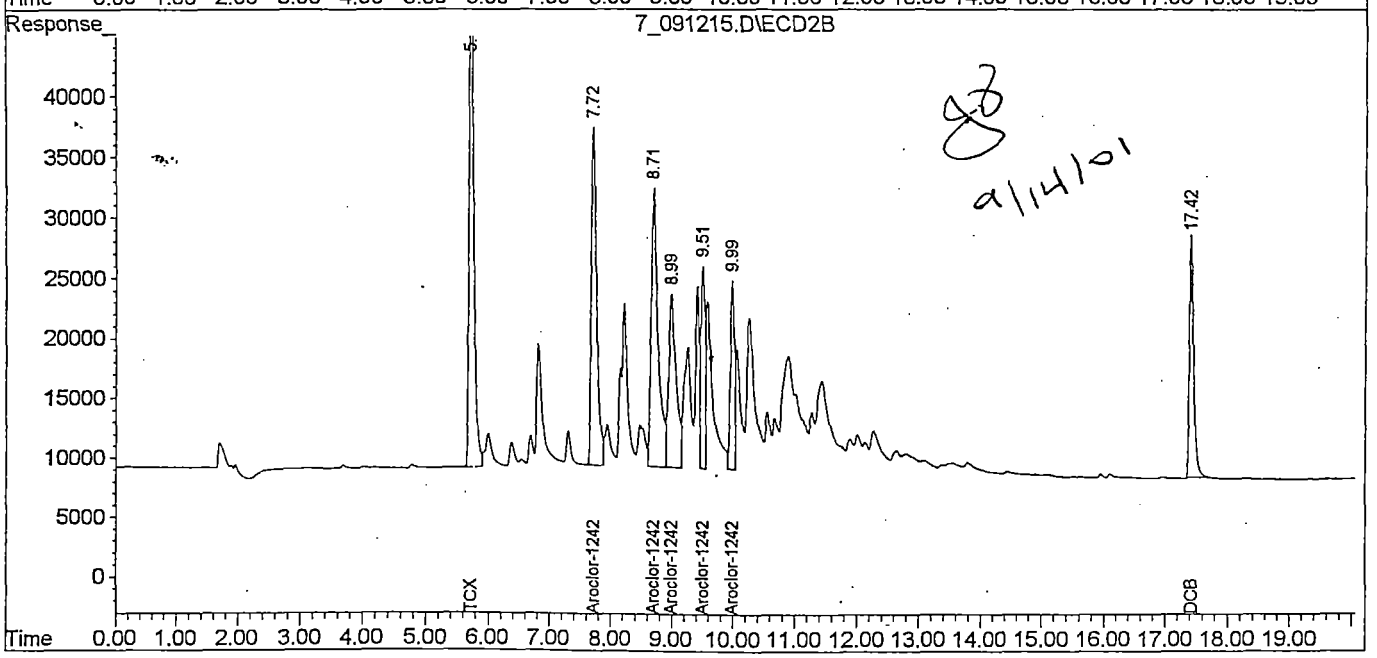
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091215.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091215.D\ECD2B.CH
Acq On : 12 Sep 2001 14:29 Operator: SA
Sample : AR1242L47G Inst : HP_07
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 12 15:35 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_06_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091215.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091215.D\ECD2B.CH
Acq On : 12 Sep 2001 14:29 Operator: SA
Sample : AR1242L47G Inst : HP_07
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 12 15:35 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_06_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

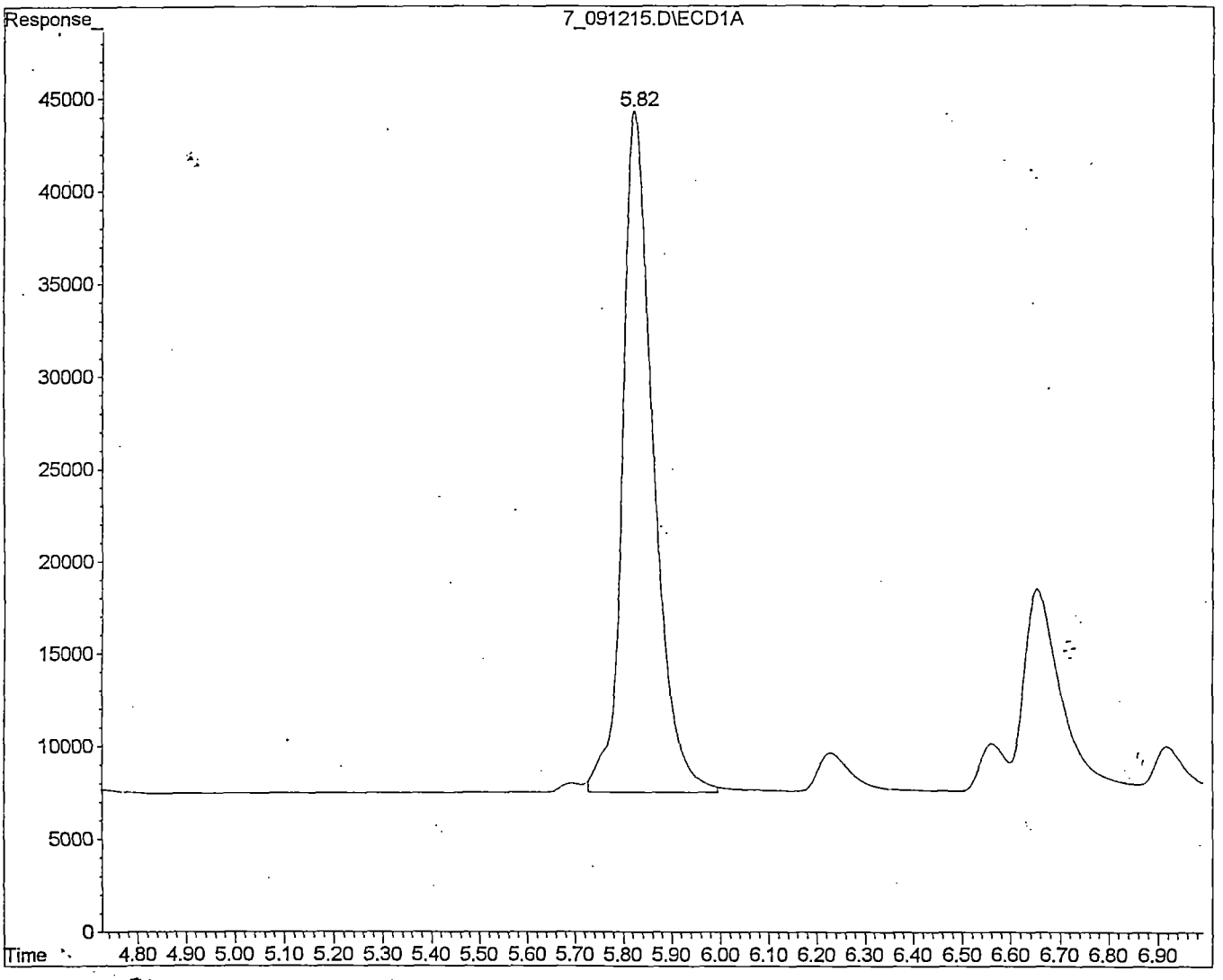
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82f	5.73f	1627990	2245056	37.2m	39.5
22)	S DCB	16.90f	17.42f	808203	895579	33.1	32.3
	Target Compounds:						
7)	L4 Aroclor-1242	7.44	7.72	1259222	1738230	643.0	663.0
8)	L4 Aroclor-1242 {2}	8.47	8.71f	1700274	1847293	810.6	864.1
9)	L4 Aroclor-1242 {3}	8.76	8.99f	838738	1223965	692.1	627.7
10)	L4 Aroclor-1242 {4}	9.21	9.51	610923	776882	660.0	664.0
11)	L4 Aroclor-1242 {5}	9.64	9.99	928643	724284	666.6	704.1
	Sum Aroclor-1242			5337800	6310653	3472.4	3522.8
	Average Aroclor-1242					694.472	704.566

ug.12-7

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std 177

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_12_01\7_091215.D
Date Acquired: 12 Sep 2001 14:29
Inst: HP_07 Operator ID: SA
Name: AR1242L47G
Misc: 5-8-7
Method: F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 12 15:35 2001 Quant Results File: XPCBI12.RES



SA 9-12-01

TCX 5.82min area: 1627990 m

Integration Time Range: 5.73 - 5.99

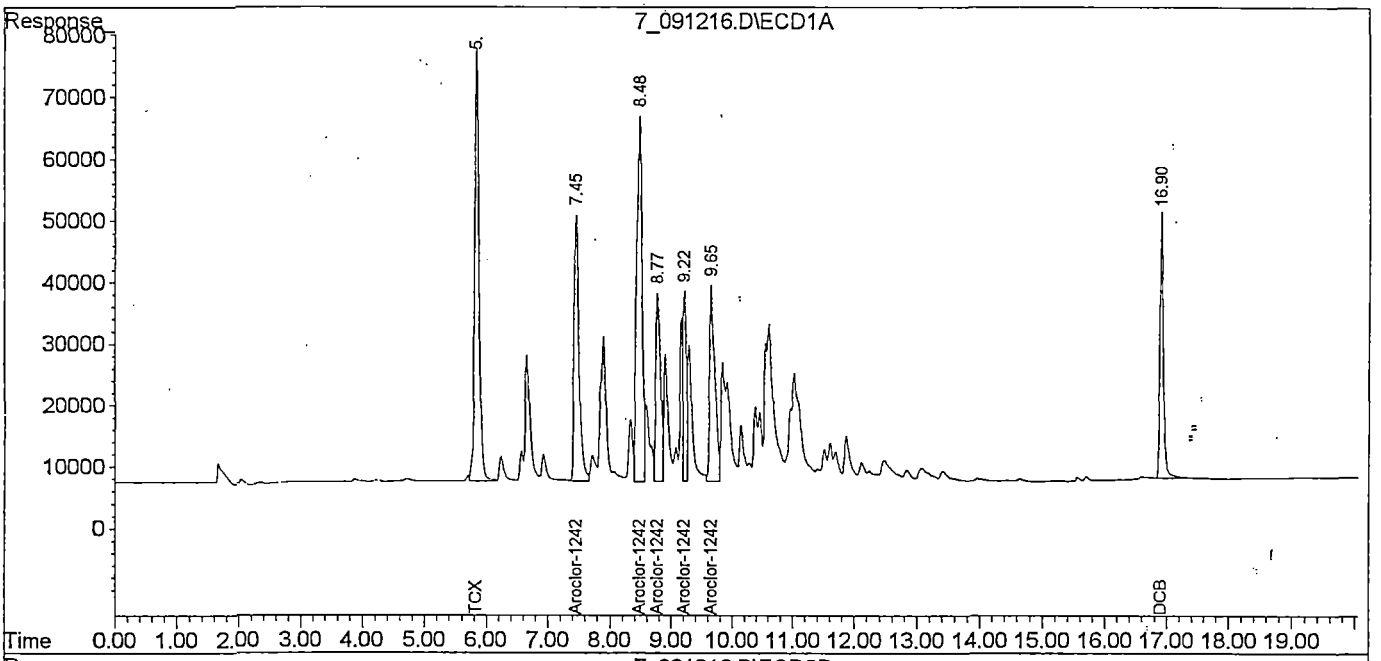
F:\HPCHEM\HP\7\DATA\09_12_01\7_091215.D
Report generated: Wed Sep 12 15:40:31 2001

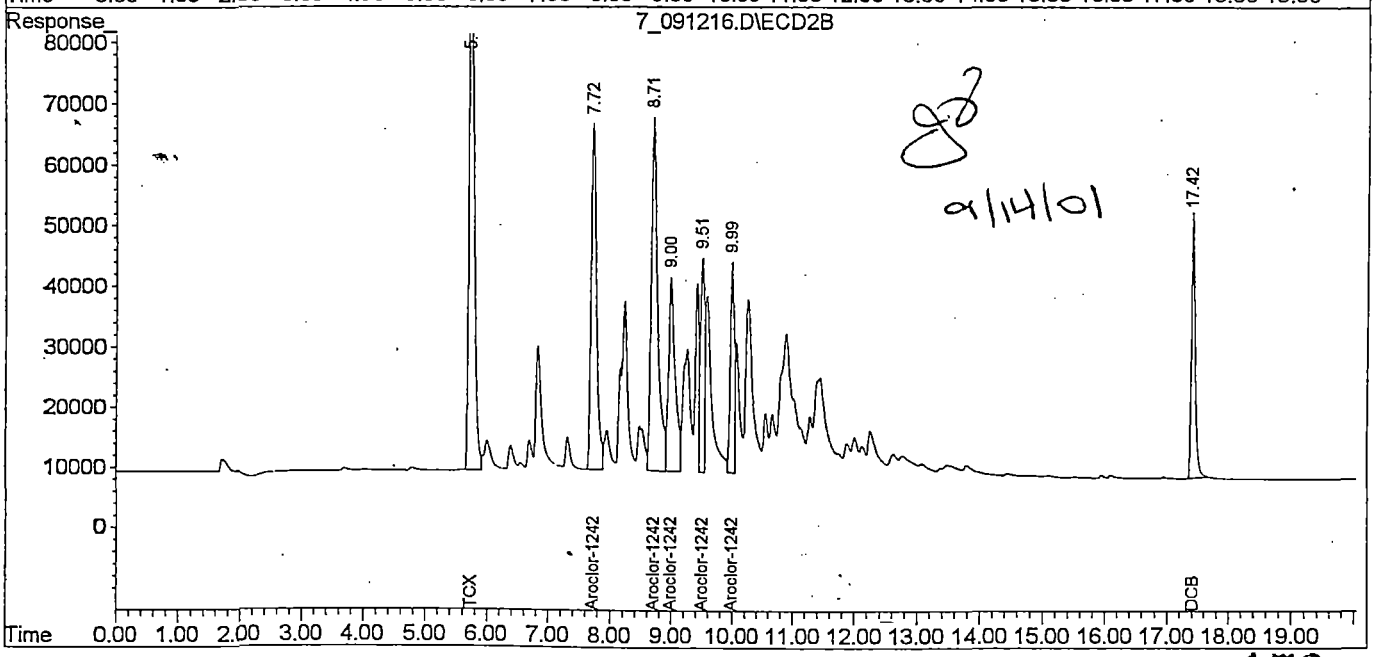
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091216.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091216.D\ECD2B.CH
Acq On : 12 Sep 2001 15:00 Operator: SA
Sample : AR1242L57G Inst : HP_07
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 12 15:36 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_06_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

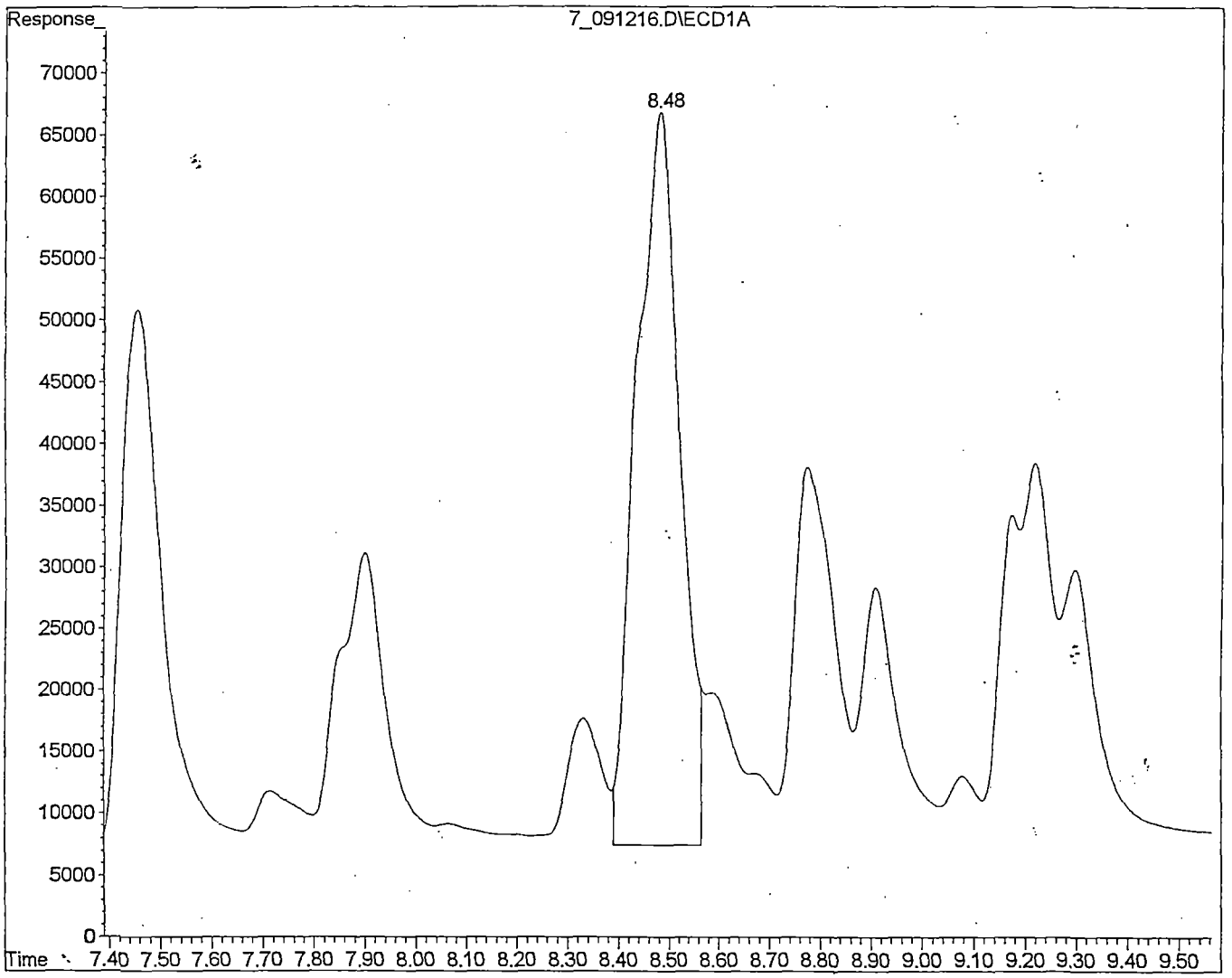




9/14/01

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_12_01\7_091216.D
Date Acquired: 12 Sep 2001 15:00
Inst: HP_07 Operator ID: SA
Name: AR1242L57G
Misc: 5-7-7
Method: F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 12 15:36 2001 Quant Results File: XPCBI12.RES



AS 9-12-01

Aroclor-1242 {2} 8.48min area: 3612460 m

Integration Time Range: 8.39 - 8.56

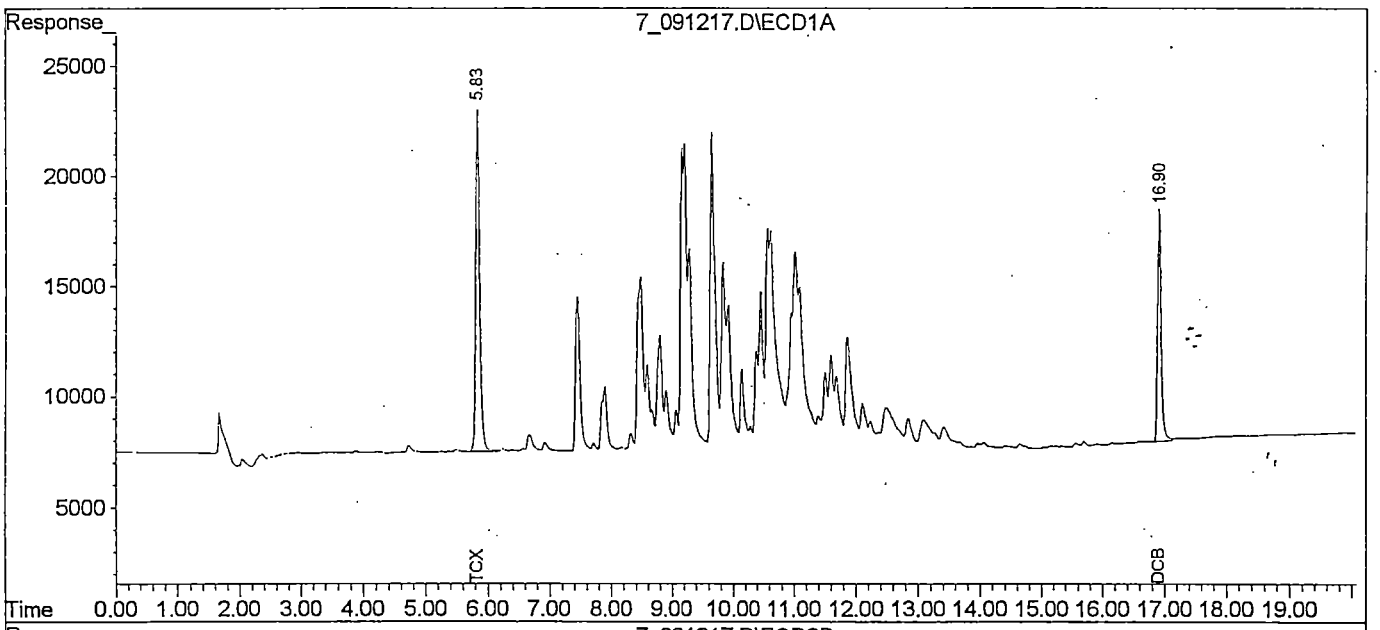
F:\HPCHEM\HP\7\DATA\09_12_01\7_091216.D
Report generated: Wed Sep 12 15:40:32 2001

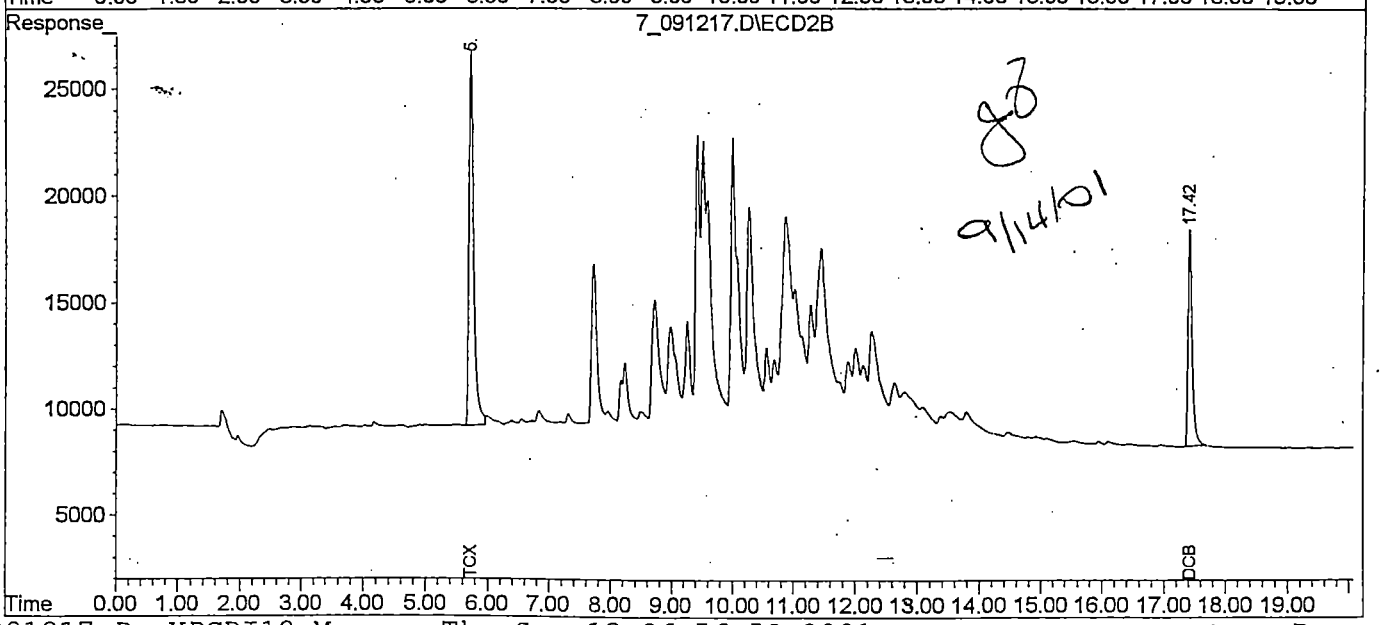
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091217.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091217.D\ECD2B.CH
Acq On : 12 Sep 2001 15:24 Operator: SA
Sample : AR1248L37G Inst : HP_07
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 6:54 2001 Quant Results File: XPCBI12.RES
Quant Time: Sep 13 6:56 2001 Quant Results File: xspcbi12.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_12_01\xspcbi12.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





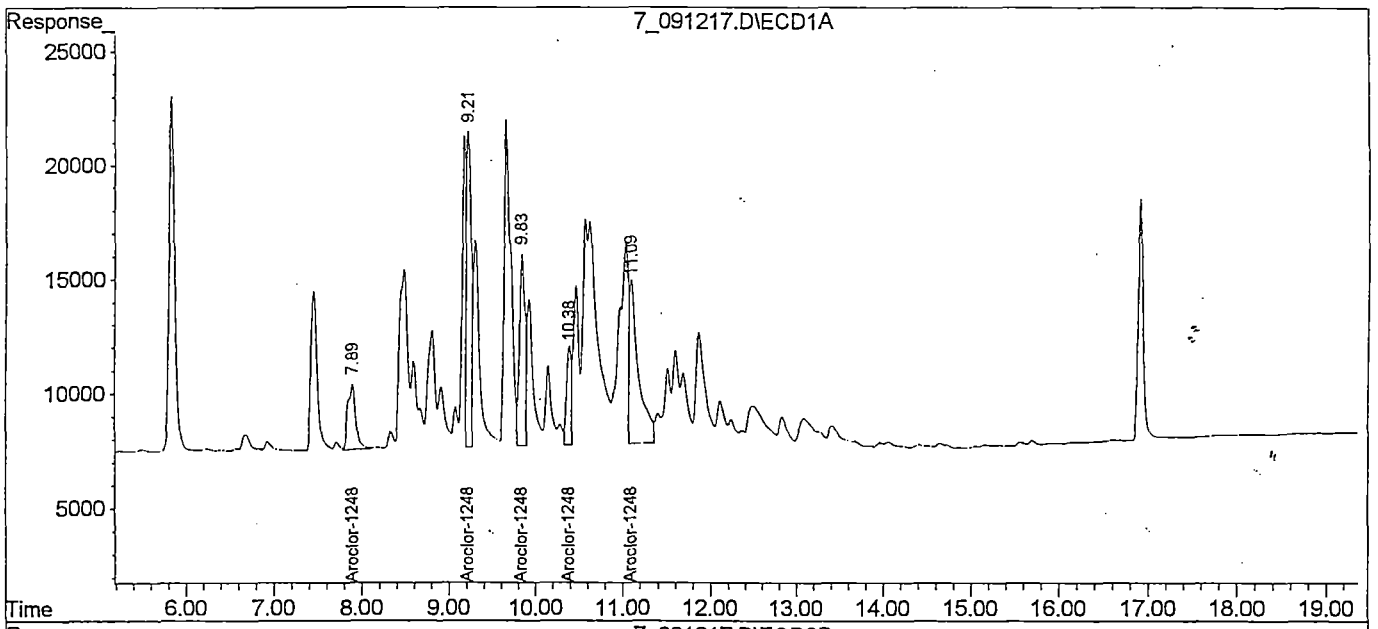
gb
9/14/01

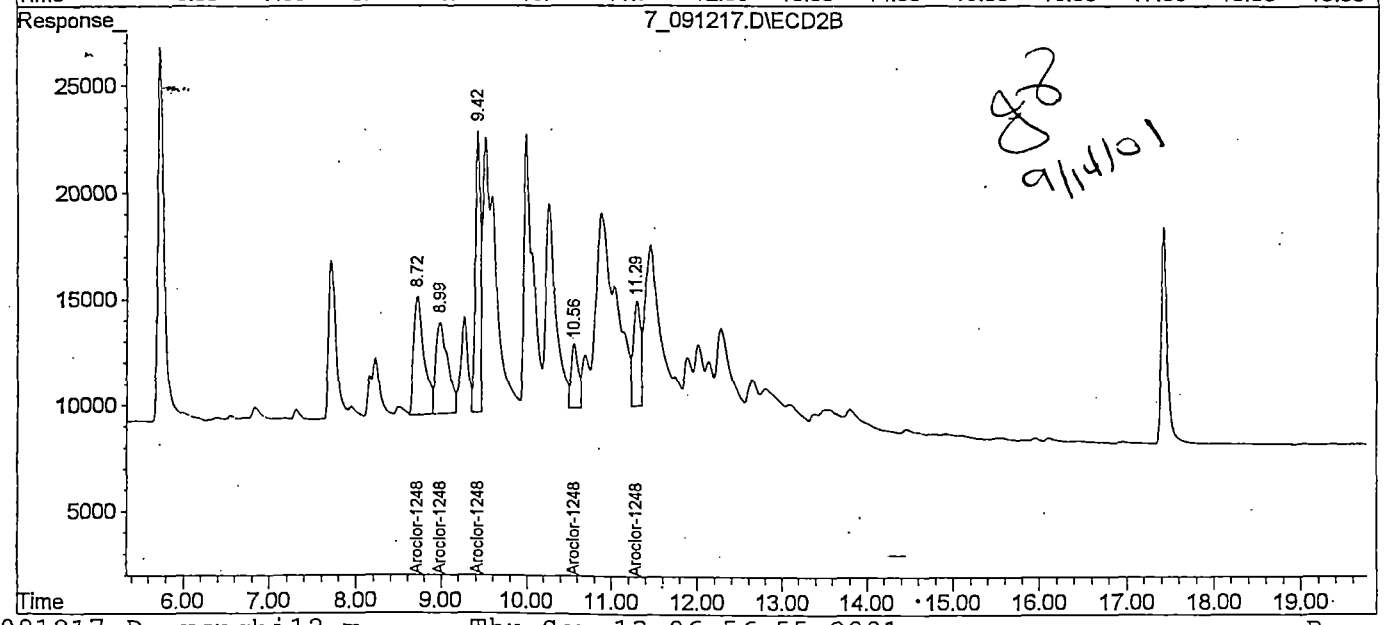
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091217.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091217.D\ECD2B.CH
Acq On : 12 Sep 2001 15:24 Operator: SA
Sample : AR1248L37G Inst : HP_07
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 6:56 2001 Quant Results File: xspcbi12.RES
Quant Time: Sep 13 6:56 2001 Quant Results File: xspcbi12.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_12_01\xspcbi12.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091217.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091217.D\ECD2B.CH
Acq On : 12 Sep 2001 15:24 Operator: SA
Sample : AR1248L37G Inst : HP_07
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 6:54 2001 Quant Results File: XPCBI12.RES
Multi Time: Sep 13 6:56 2001 Quant Results File: xspcbi12.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_12_01\xspcbi12.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	695760	921837	16.6	16.8
22)	S DCB	16.90	17.42	420328	470348	19.0	19.5
	Target Compounds:						
	Multi-Component Compounds:						
14)	L5 Aroclor-1248	7.89f	8.72	180525	484959	388.1	348.2
15)	L5 Aroclor-1248 {2}	9.21f	8.99	511903	421913	379.5	399.0
16)	L5 Aroclor-1248 {3}	9.83f	9.42f	367937	550747	383.4	378.2
17)	L5 Aroclor-1248 {4}	10.38f	10.56f	153570	171798	363.7	438.3
18)	L5 Aroclor-1248 {5}	11.08f	11.29	523245	285621	382.0	412.3
	Sum Aroclor-1248			1737180	1915038	1896.7	1975.9
	Average Aroclor-1248					379.336	395.184

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

Response Factor Report HP_07

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Thu Sep 13 07:26:16 2001
Response via : Initial Calibration

Calibration Files
L1 =7_091218.D L2 =7_091219.D L3 =7_091220.D
L4 =7_091221.D L5 =7_091222.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
12) Aroclor-1254	1.7	1.7	1.7	1.6	1.5	1.6 E3	5.73
13) Aroclor-1254 {2}	2.6	2.7	2.7	2.6	2.5	2.6 E3	3.44
14) Aroclor-1254 {3}	2.6	2.7	2.7	2.7	2.5	2.7 E3	3.38
15) Aroclor-1254 {4}	2.2	2.2	2.1	1.9	1.8	2.0 E3	8.55
16) Aroclor-1254 {5}	2.8	2.8	2.8	2.7	2.6	2.8 E3	3.82

Signal #2 Calibration Files
L1 =7_091218.D L2 =7_091219.D L3 =7_091220.D
L4 =7_091221.D L5 =7_091222.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
35) Aroclor-1254 #2	2.5	2.6	2.7	2.8	2.8	2.7 E3	4.78
36) Aroclor-1254 {2} #2	2.0	2.1	2.1	2.2	2.3	2.2 E3	5.08
37) Aroclor-1254 {3} #2	4.2	4.1	4.2	4.3	4.3	4.2 E3	2.20
38) Aroclor-1254 {4} #2	2.3	2.1	2.1	2.0	1.9	2.1 E3	7.63
39) Aroclor-1254 {5} #2	4.1	3.8	3.8	3.6	3.7	3.8 E3	5.01

(#) = Out of Range

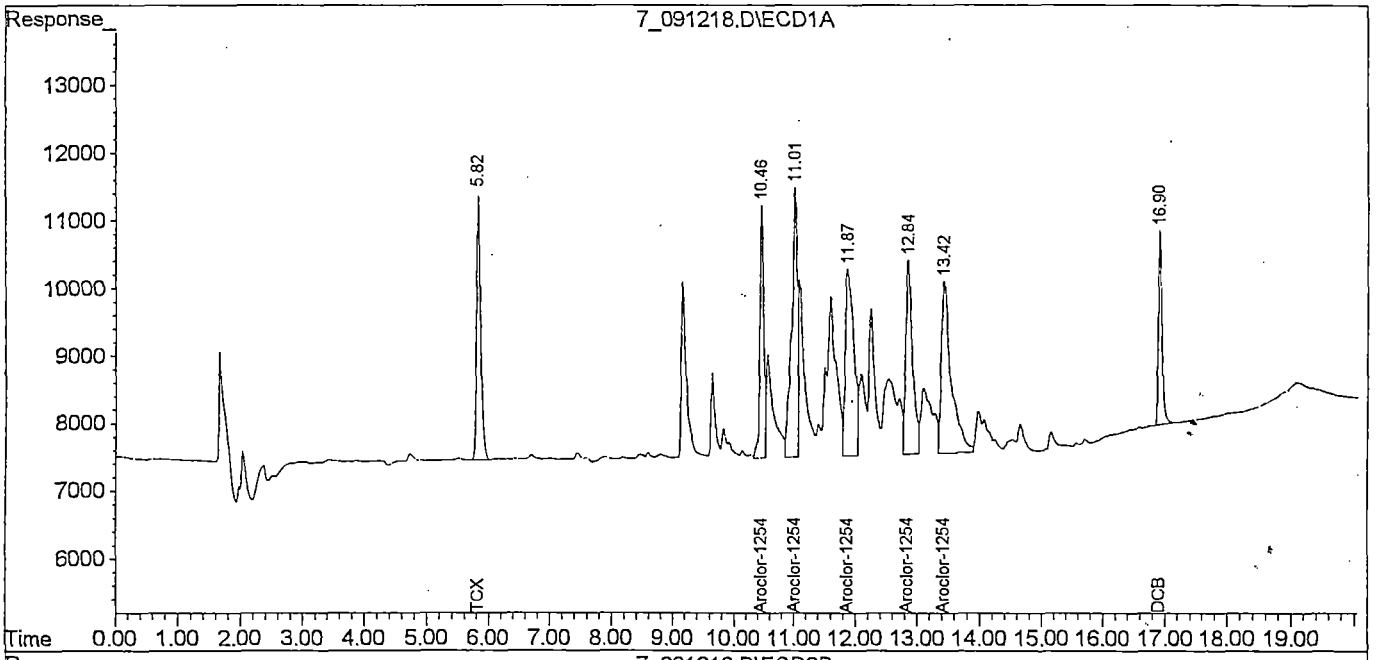
XPCBI12.M Thu Sep 13 07:26:26 2001

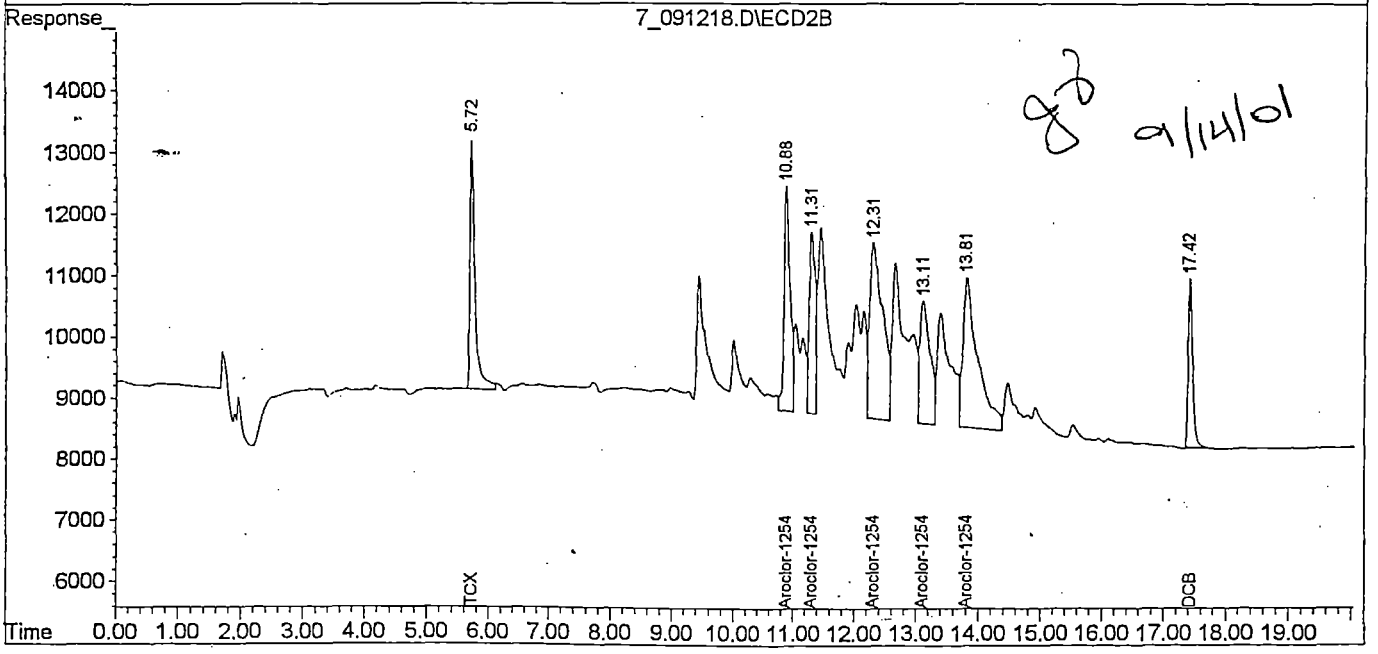
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091218.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091218.D\ECD2B.CH
Acq On : 12 Sep 2001 15:48 Operator: SA
Sample : AR1254L17G Inst : HP_07
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 7:01 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiplc Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





gg 9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091218.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091218.D\ECD2B.CH
Acq On : 12 Sep 2001 15:48 Operator: SA
Sample : AR1254L17G Inst : HP_07
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 7:01 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

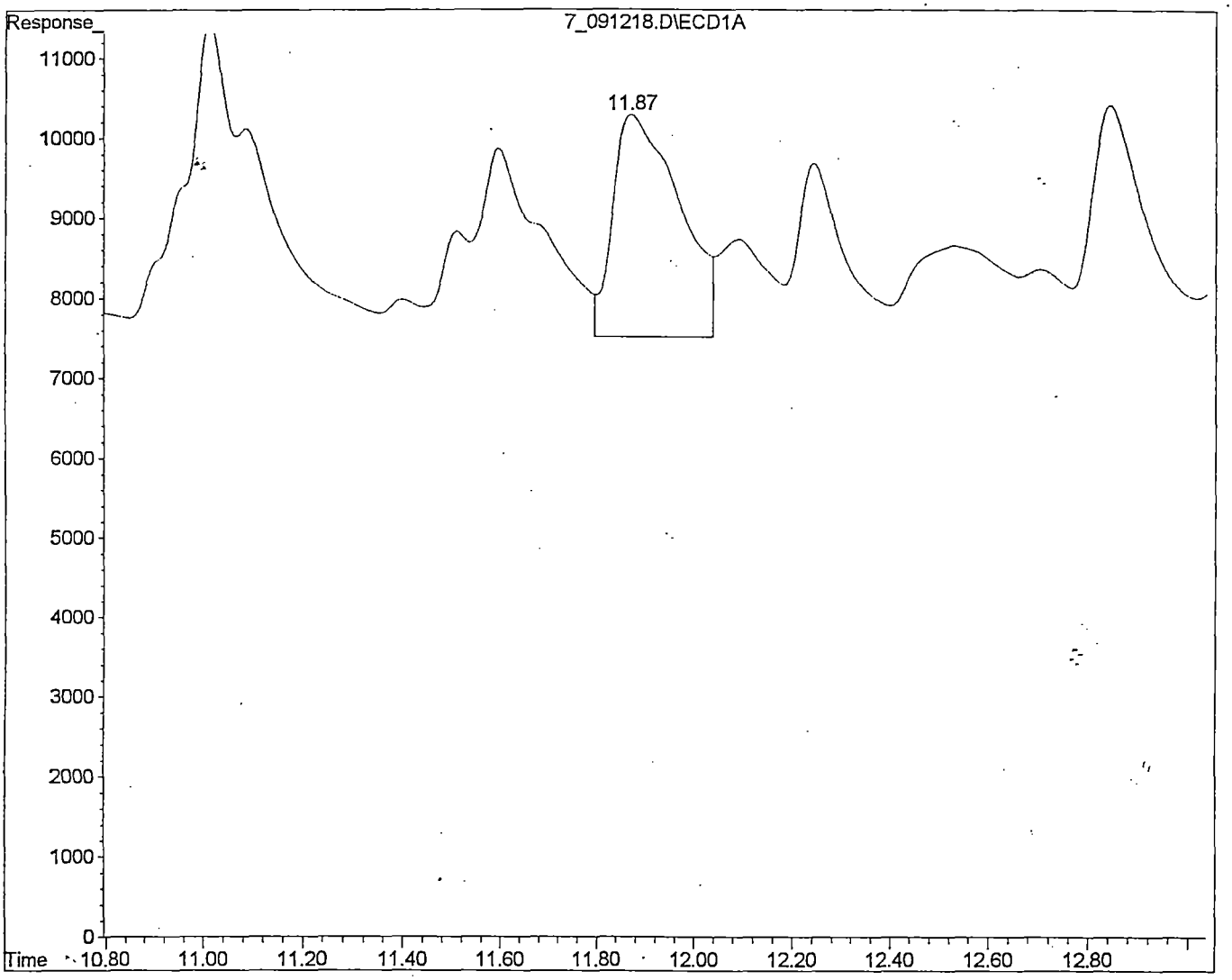
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.72	178163	237207	4.257	4.334	
22)	S DCB	16.90	17.42	112796	129942	5.106	5.393	
	Target Compounds:							
12)	L6 Aroclor-1254	10.46	10.88	167814	252782	92.2	84.6	
13)	L6 Aroclor-1254 {2}	11.01	11.31f	259685	204509	50.3	79.1	#
14)	L6 Aroclor-1254 {3}	11.87f	12.31	260911	424281	83.4m	80.9	
15)	L6 Aroclor-1254 {4}	12.84f	13.11	221138	233132	79.1	85.2	
16)	L6 Aroclor-1254 {5}	13.42f	13.82	283435	410014	75.6	80.7	
	Sum Aroclor-1254			1192982	1524717	380.7	410.6	
	Average Aroclor-1254					76.138	82.112	

cs 9.13.01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_12_01\7_091218.D
Date Acquired: 12 Sep 2001 15:48
Inst: HP_07 Operator ID: SA
Name: AR1254L17G
Misc: 5-6-7
Method: F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 13 7:01 2001 Quant Results File: XPCBI12.RES



A 9.13-01

Aroclor-1254 {3} 11.87min area: 260911 m

Integration Time Range: 11.80 - 12.04

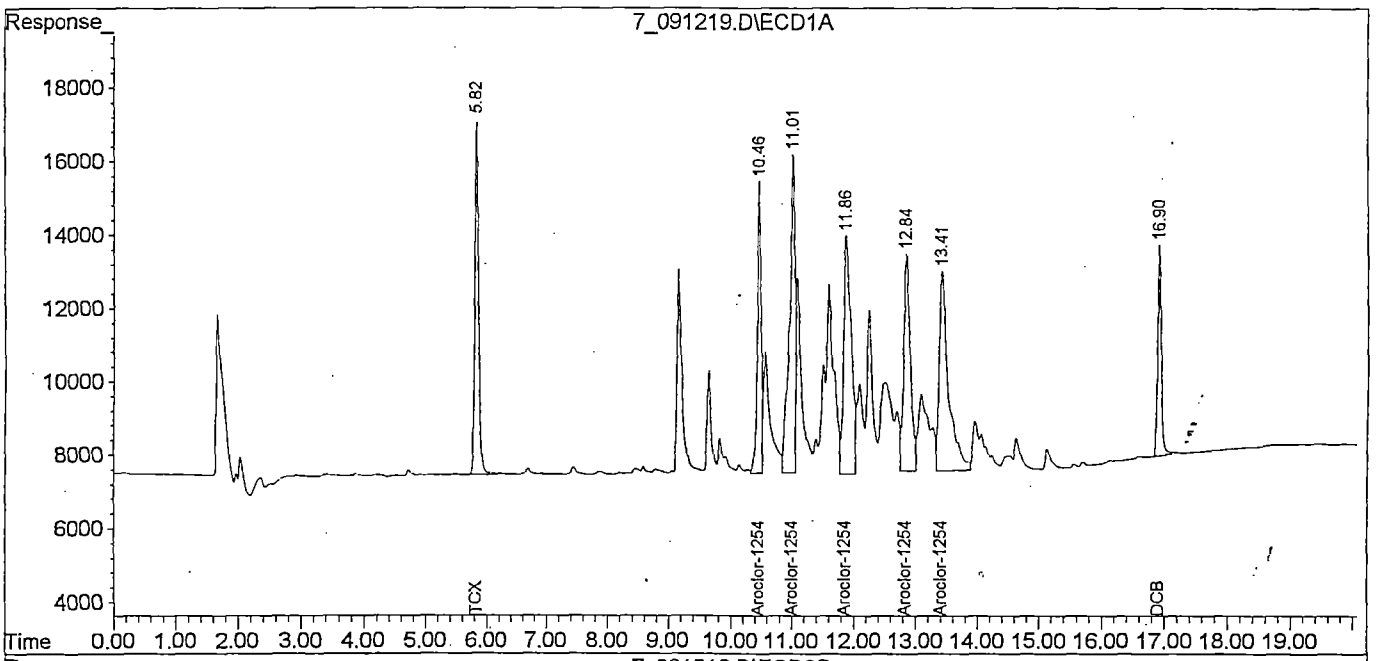
F:\HPCHEM\HP\7\DATA\09_12_01\7_091218.D
Report generated: Thu Sep 13 07:11:46 2001

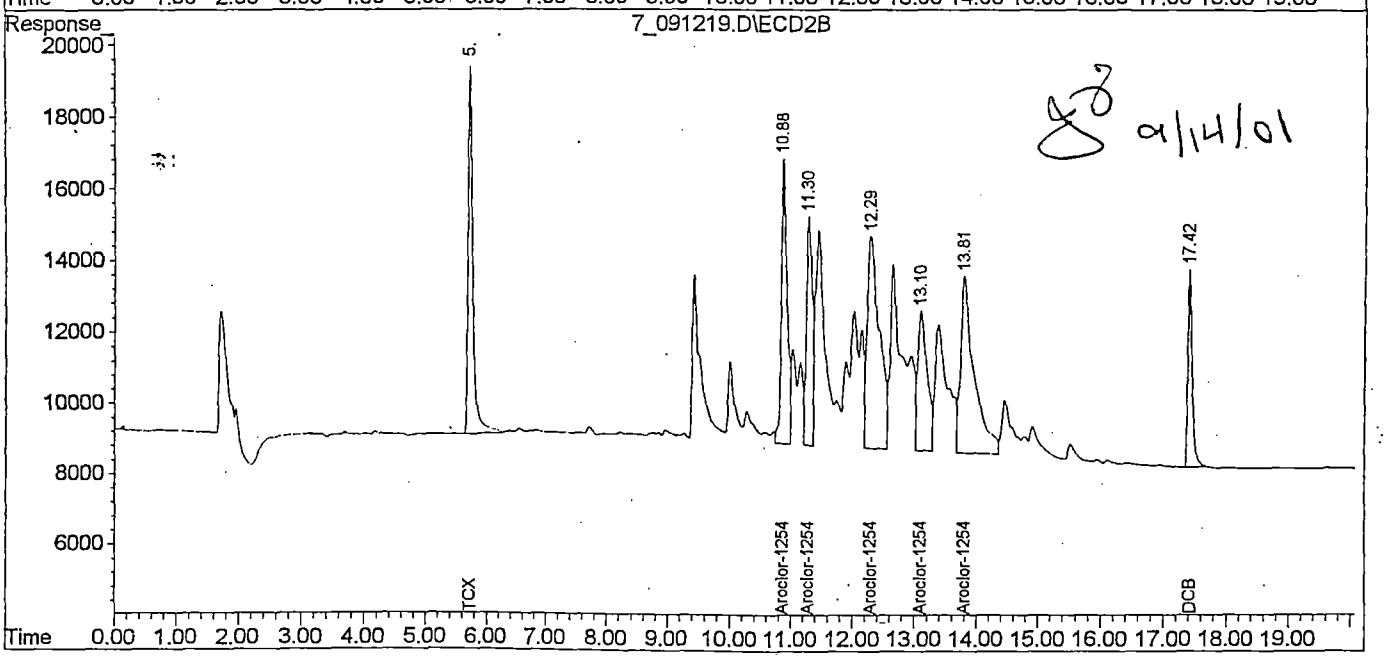
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091219.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091219.D\ECD2B.CH
Acq On : 12 Sep 2001 16:13 Operator: SA
Sample : AR1254L27G Inst : HP_07
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 7:02 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091219.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091219.D\ECD2B.CH
Acq On : 12 Sep 2001 16:13 Operator: SA
Sample : AR1254L27G Inst : HP_07
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 7:02 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

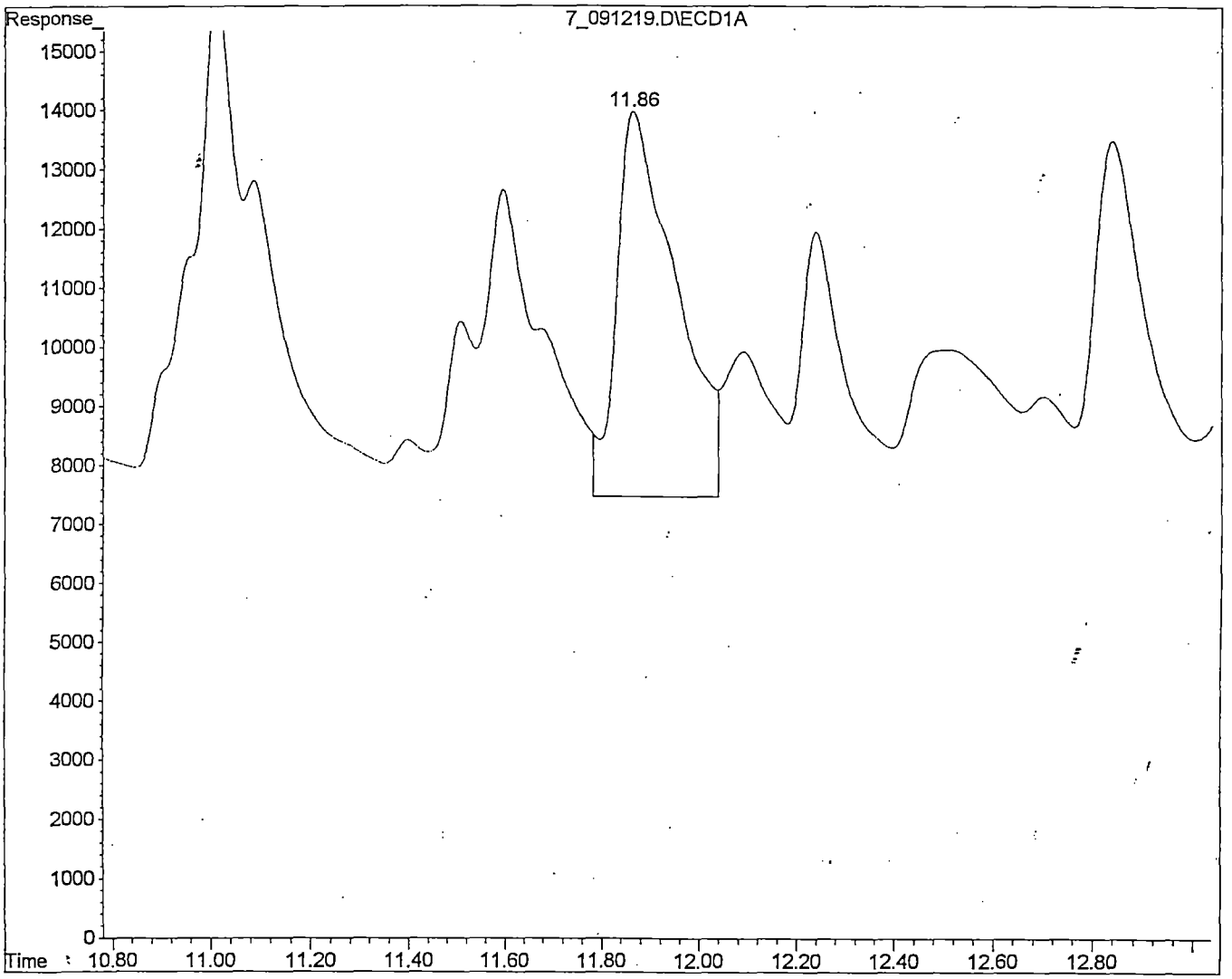
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.73	410686	549103	9.812	10.0	
22)	S DCB	16.90	17.42	228439	259972	10.3	10.8	
	Target Compounds:							
12)	L6 Aroclor-1254	10.46	10.88	341748	518051	187.9	173.5	
13)	L6 Aroclor-1254 {2}	11.01	11.30f	539450	412256	104.6	159.4	#
14)	L6 Aroclor-1254 {3}	11.86f	12.29f	549358	817968	175.6m	156.1	
15)	L6 Aroclor-1254 {4}	12.84f	13.10f	430350	428144	154.0	156.5	
16)	L6 Aroclor-1254 {5}	13.41f	13.81f	569311	767260	151.8	151.0	
	Sum Aroclor-1254			2430216	2943679	773.8	796.4	
	Average Aroclor-1254					154.765	159.280	

09.13.7

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_12_01\7_091219.D
Date Acquired: 12 Sep 2001 16:13
Inst: HP_07 Operator ID: SA
Name: AR1254L27G
Misc: 5-5-7
Method: F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 13 7:02 2001 Quant Results File: XPCBI12.RES



A 9.17.01

Aroclor-1254 {3} 11.86min area: 549358 m

Integration Time Range: 11.78 - 12.04

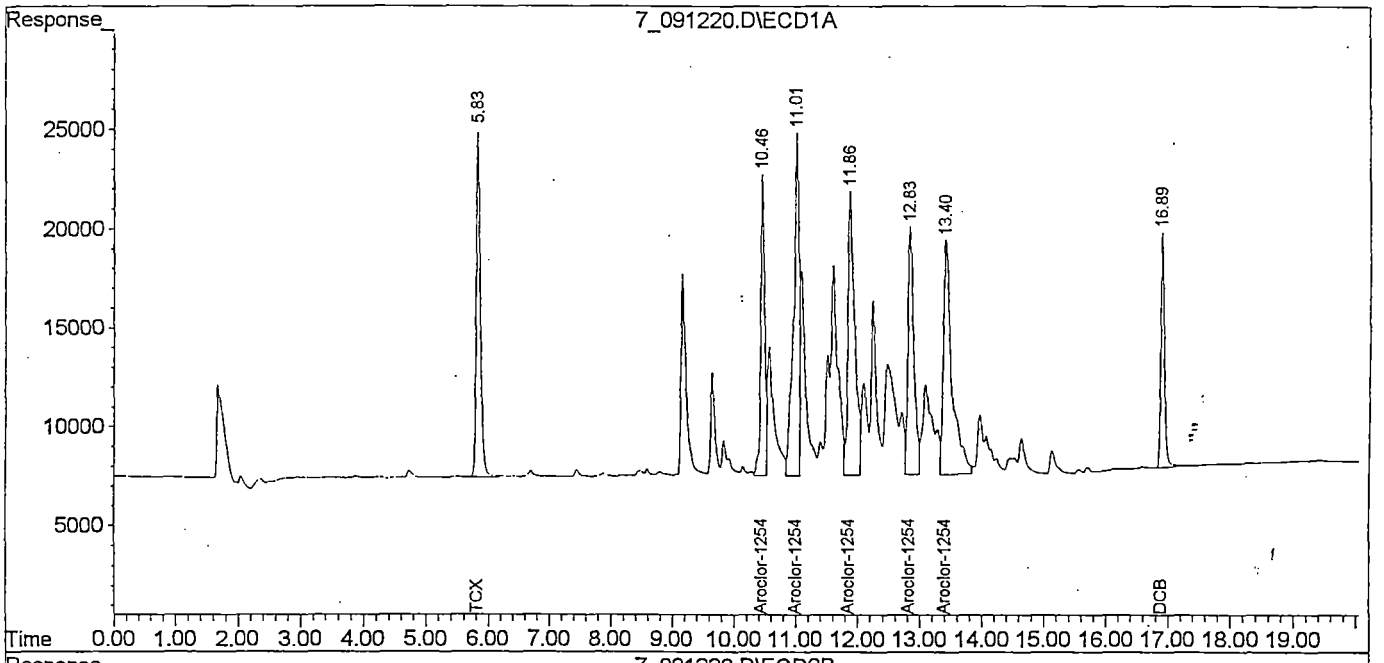
F:\HPCHEM\HP\7\DATA\09_12_01\7_091219.D
Report generated: Thu Sep 13 07:11:48 2001

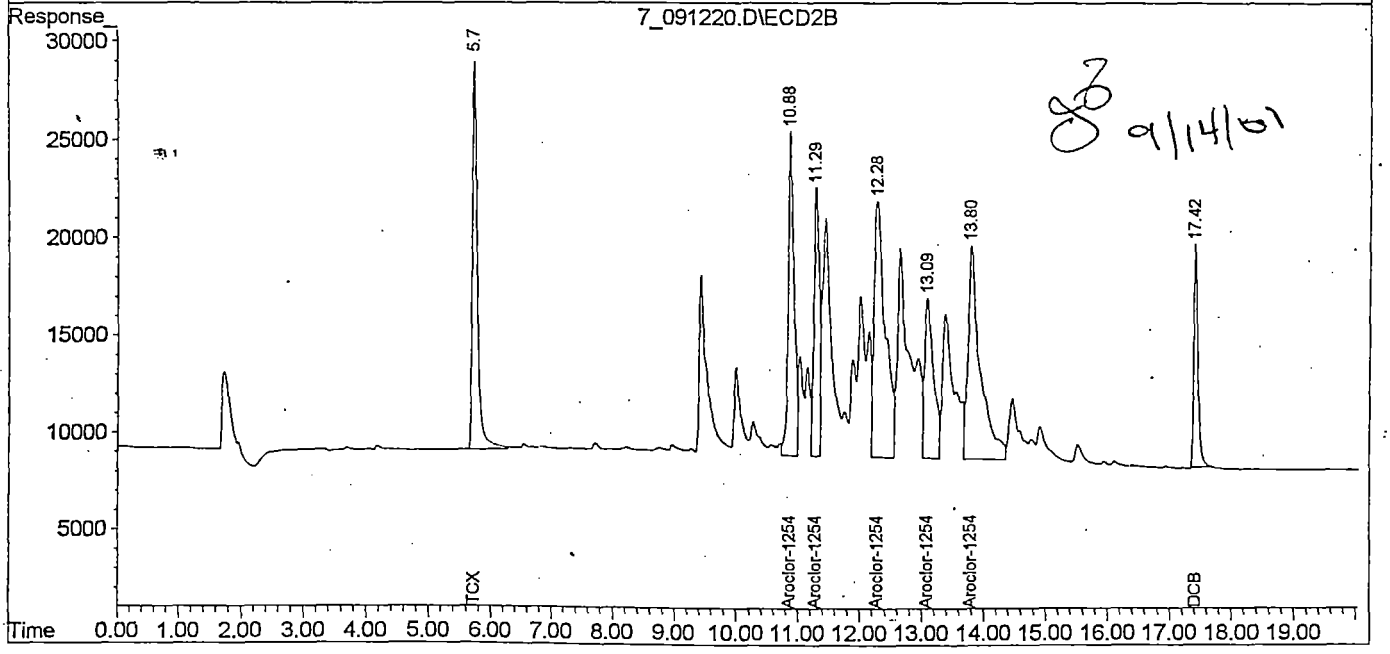
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091220.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091220.D\ECD2B.CH
Acq On : 12 Sep 2001 16:37 Operator: SA
Sample : AR1254L37G Inst : HP_07
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 7:04 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091220.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091220.D\ECD2B.CH
Acq On : 12 Sep 2001 16:37 Operator: SA
Sample : AR1254L37G Inst : HP_07
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 7:04 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

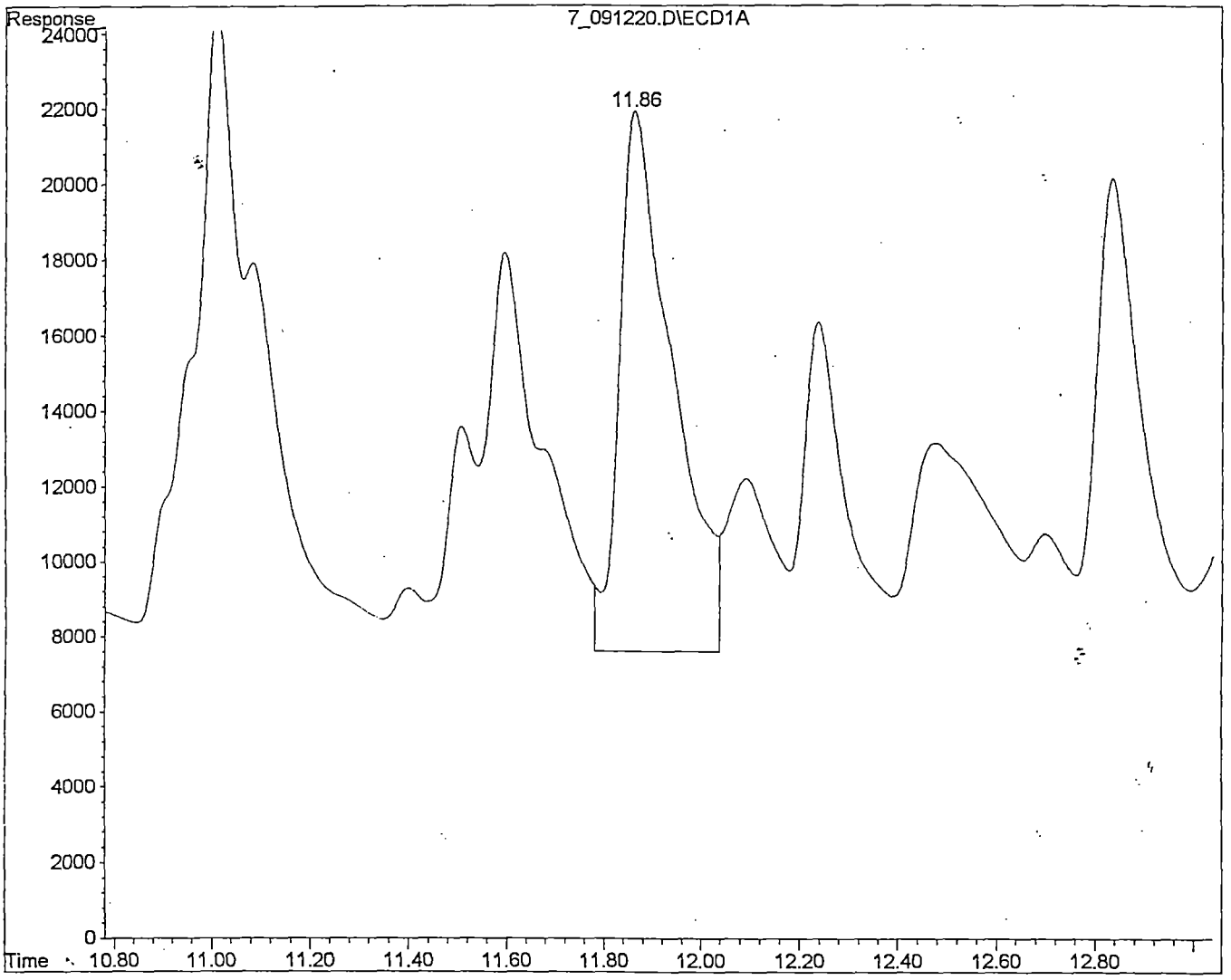
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.83	5.73	804903	1114415	19.2	20.4	
22)	S DCB	16.90	17.42	475250	532489	21.5	22.1	
	Target Compounds:							
12)	L6 Aroclor-1254	10.46	10.88f	664377	1064295	365.2	356.4	
13)	L6 Aroclor-1254 {2}	11.01	11.29f	1084403	854550	210.2	330.4	#
14)	L6 Aroclor-1254 {3}	11.86f	12.28f	1096887	1661700	350.7m	317.0	
15)	L6 Aroclor-1254 {4}	12.83f	13.09f	836486	829941	299.3	303.3	
16)	L6 Aroclor-1254 {5}	13.41f	13.80f	1137726	1521590	303.4	299.5	
	Sum Aroclor-1254			4819879	5932075	1528.7	1606.6	
	Average Aroclor-1254					305.745	321.318	

A 9.13.01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_12_01\7_091220.D
Date Acquired: 12 Sep 2001 16:37
Inst: HP_07 Operator ID: SA
Name: AR1254L37G
Misc: 5-4-7
Method: F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 13 7:04 2001 Quant Results File: XPCBI12.RES



9.13.01

Aroclor-1254 {3} 11.86min area: 1096887 m

Integration Time Range: 11.78 - 12.04

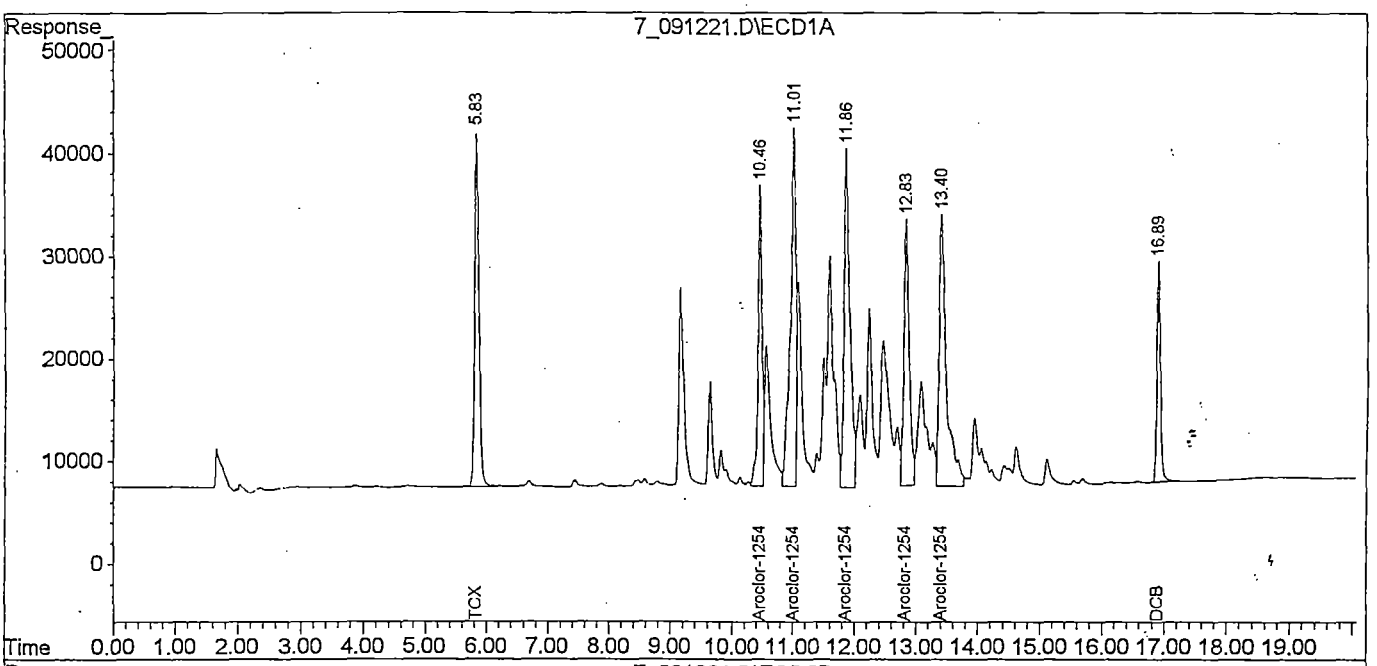
F:\HPCHEM\HP\7\DATA\09_12_01\7_091220.D
Report generated: Thu Sep 13 07:11:49 2001

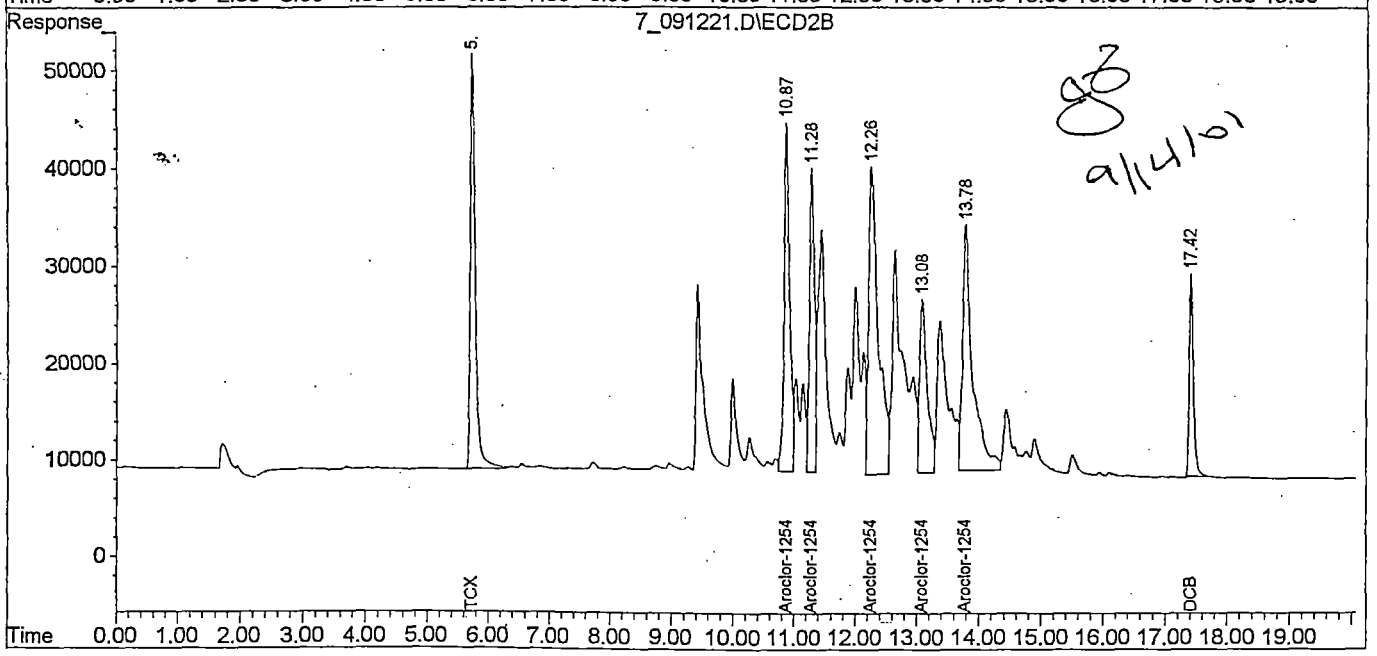
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091221.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091221.D\ECD2B.CH
Acq On : 12 Sep 2001 17:02 Operator: SA
Sample : AR1254L47G Inst : HP_07
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 7:23 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091221.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091221.D\ECD2B.CH
Acq On : 12 Sep 2001 17:02 Operator: SA
Sample : AR1254L47G Inst : HP_07
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 7:23 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

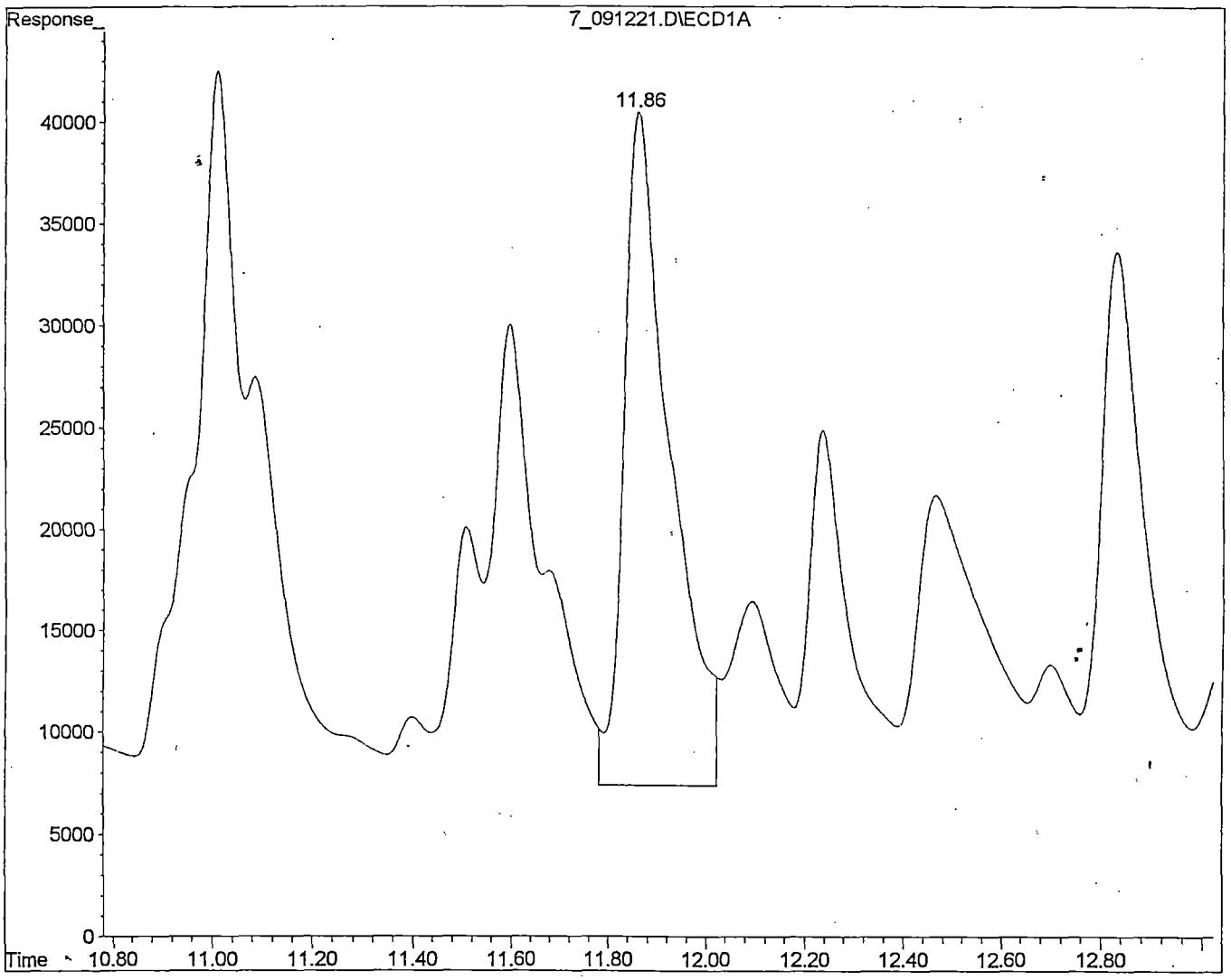
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	1667387	2458172	39.8	44.9
22)	S DCB	16.90	17.42	852413	954532	38.6	39.6
	Target Compounds:						
12)	L6 Aroclor-1254	10.46	10.87f	1273503	2220609	700.1	743.5
13)	L6 Aroclor-1254 {2}	11.01	11.28f	2102631	1799212	407.5	695.6 #
14)	L6 Aroclor-1254 {3}	11.86f	12.26f	2166467	3455618	692.6m	659.3m
15)	L6 Aroclor-1254 {4}	12.83f	13.08f	1556774	1578041	556.9	576.6
16)	L6 Aroclor-1254 {5}	13.40f	13.78f	2188295	2863971	583.5m	563.8m
	Sum Aroclor-1254			9287670	11917451	2940.7	3238.9
	Average Aroclor-1254					588.141	647.775

A 9.13.9

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_12_01\7_091221.D
Date Acquired: 12 Sep 2001 17:02
Inst: HP_07 Operator ID: SA
Name: AR1254L47G
Misc: 5-3-7
Method: F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 13 7:23 2001 Quant Results File: XPCBI12.RES



9-13-01

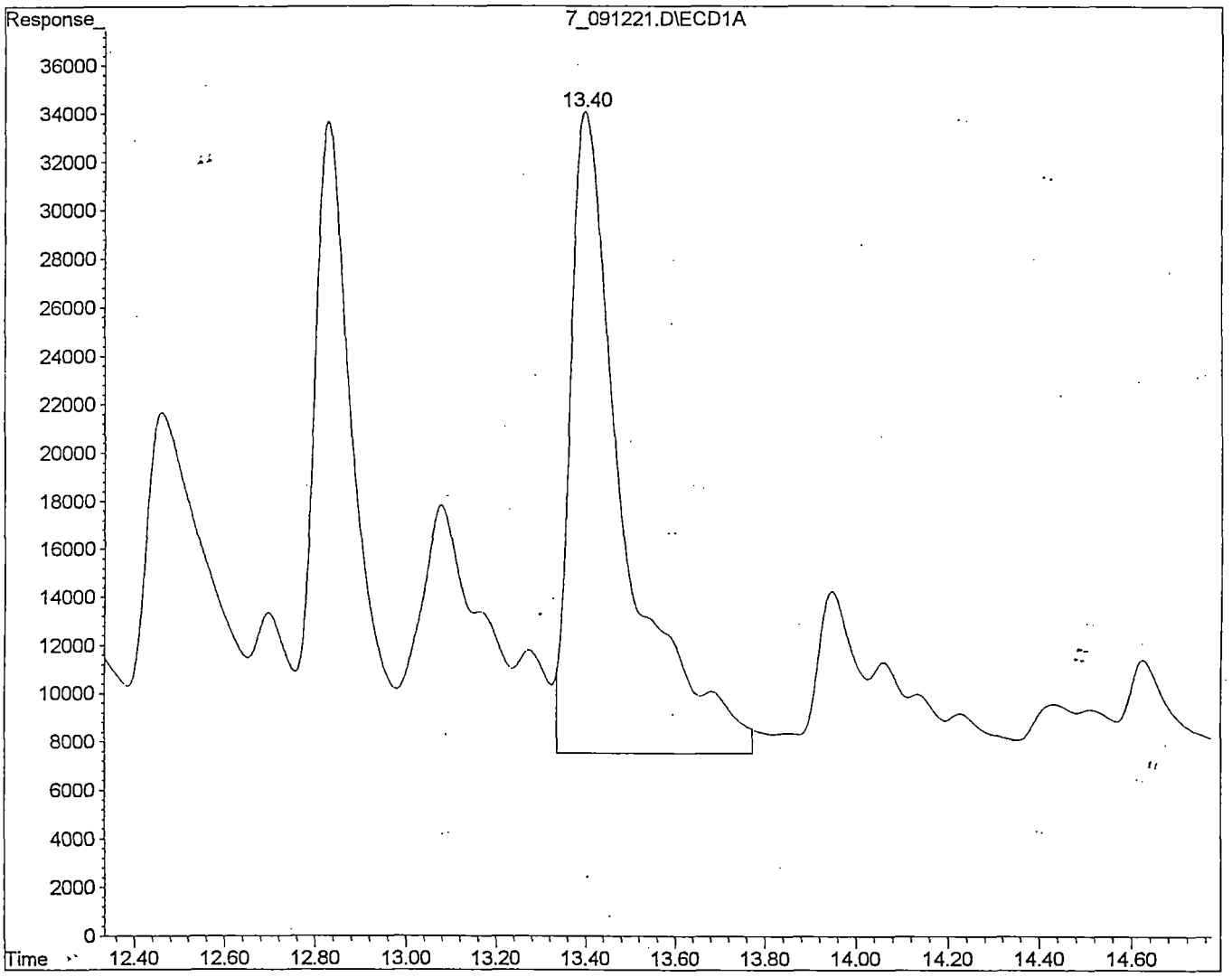
Aroclor-1254 {3} 11.86min area: 2166467 m

Integration Time Range: 11.78 - 12.02

F:\HPCHEM\HP\7\DATA\09_12_01\7_091221.D
Report generated: Thu Sep 13 07:25:09 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_12_01\7_091221.D
Date Acquired: 12 Sep 2001 17:02
Inst: HP_07 Operator ID: SA
Name: AR1254L47G
Misc: 5-3-7
Method: F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 13 7:23 2001 Quant Results File: XPCBI12.RES



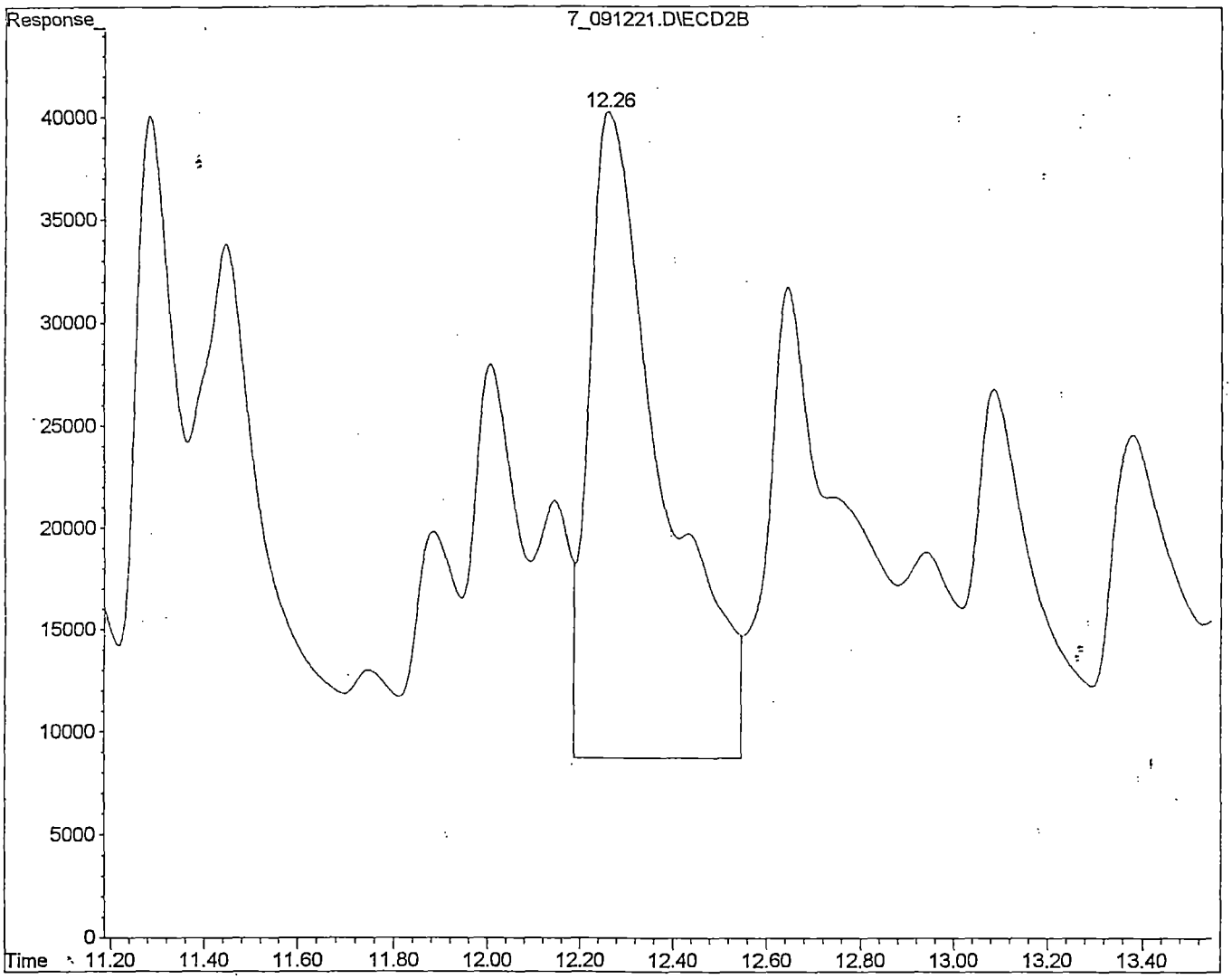
Aroclor-1254 {5} 13.40min area: 2188295 m

Integration Time Range: 13.34 - 13.77

F:\HPCHEM\HP\7\DATA\09_12_01\7_091221.D
Report generated: Thu Sep 13 07:25:10 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_12_01\7_091221.D
Date Acquired: 12 Sep 2001 17:02
Inst: HP_07 Operator ID: SA
Name: AR1254L47G
Misc: 5-3-7
Method: F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 13 7:23 2001 Quant Results File: XPCBI12.RES



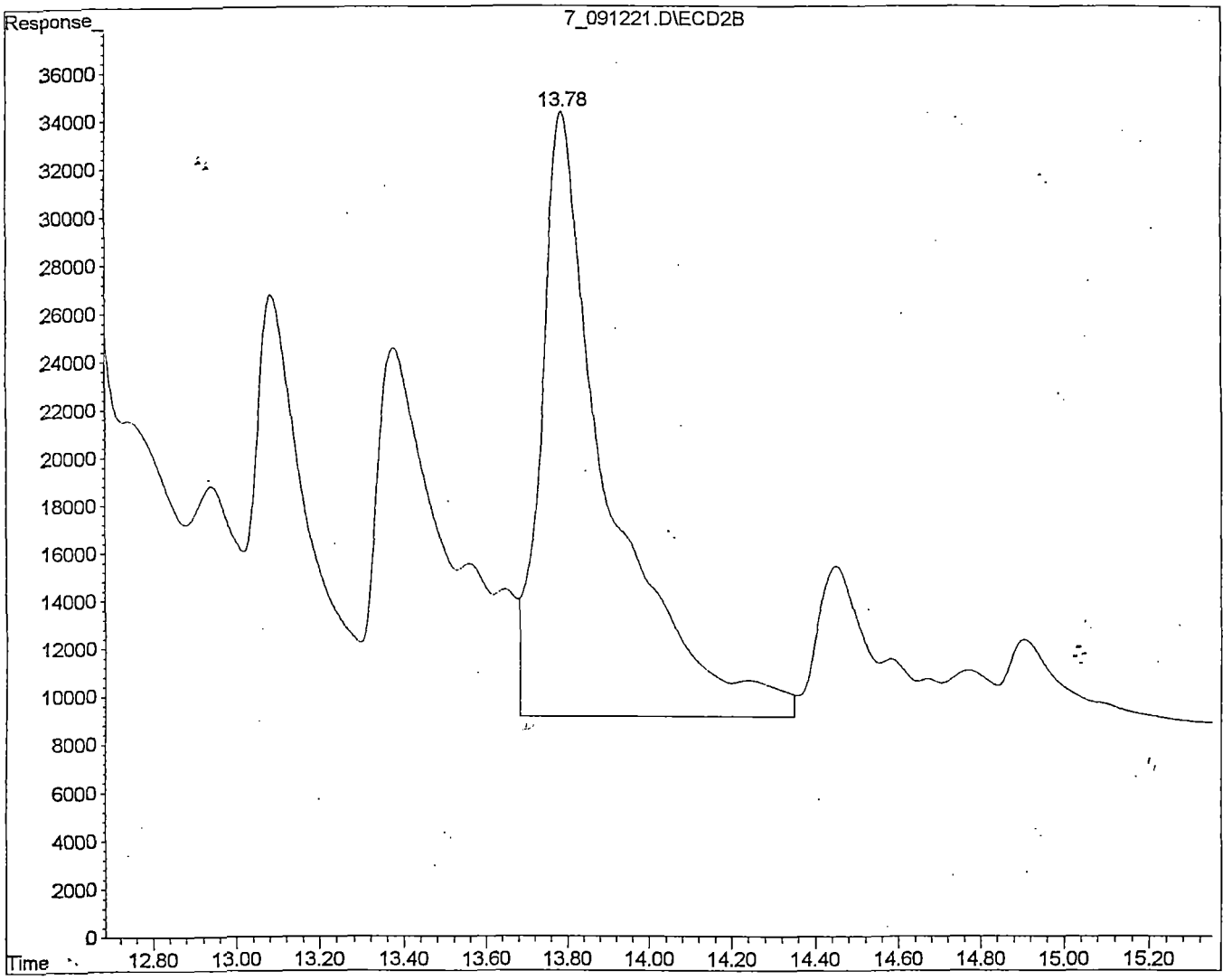
Aroclor-1254 {3} #2 12.26min area: 3455618 m

Integration Time Range: 12.19 - 12.55

F:\HPCHEM\HP\7\DATA\09_12_01\7_091221.D
Report generated: Thu Sep 13 07:25:11 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_12_01\7_091221.D
Date Acquired: 12 Sep 2001 17:02
Inst: HP_07 Operator ID: SA
Name: AR1254L47G
Misc: 5-3-7
Method: F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 13 7:23 2001 Quant Results File: XPCBI12.RES



09-13-01

Aroclor-1254 {5} #2 13.78min area: 2863971 m

Integration Time Range: 13.68 - 14.35

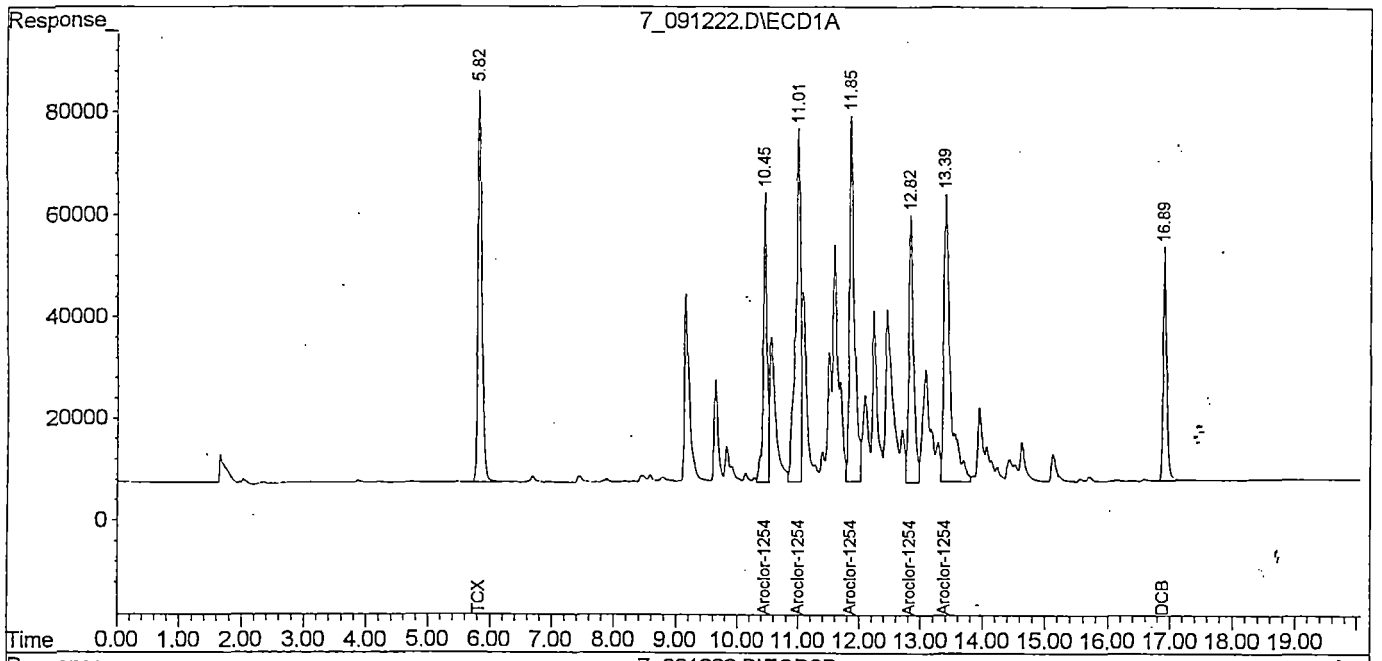
F:\HPCHEM\HP\7\DATA\09_12_01\7_091221.D
Report generated: Thu Sep 13 07:25:12 2001

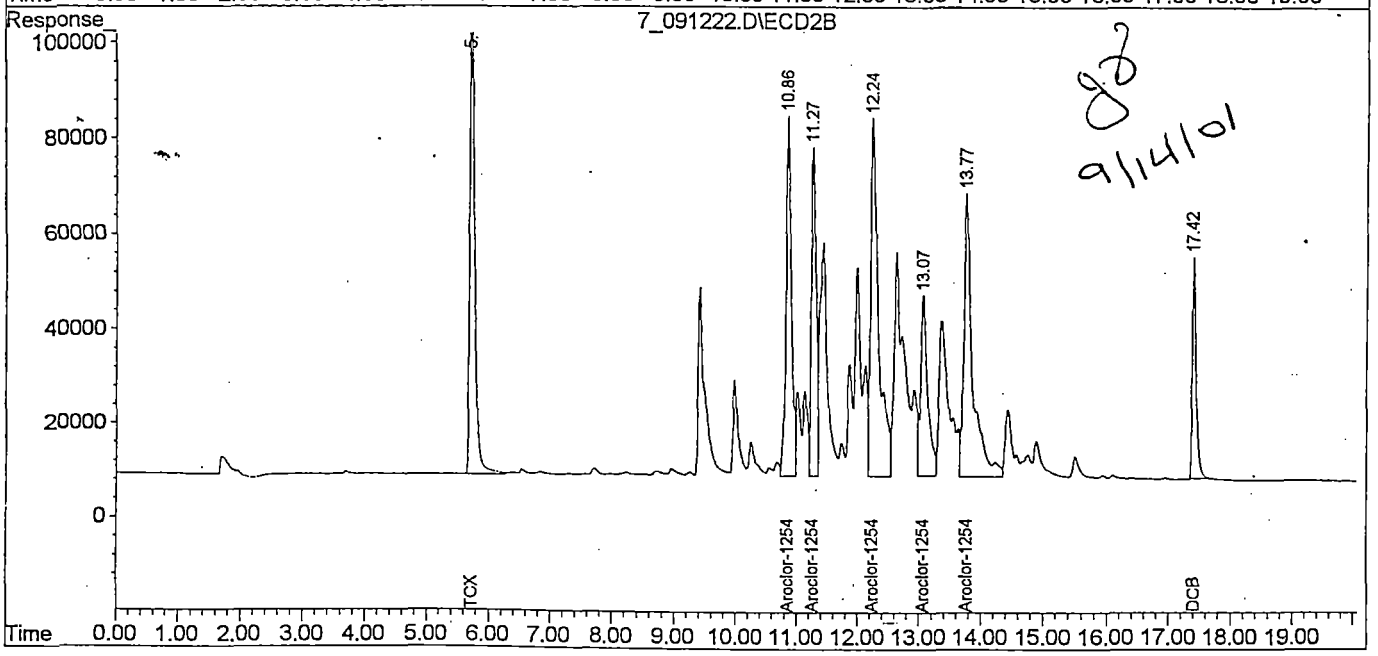
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091222.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091222.D\ECD2B.CH
Acq On : 12 Sep 2001 17:26 Operator: SA
Sample : AR1254L57G Inst : HP_07
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 7:24 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091222.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091222.D\ECD2B.CH
Acq On : 12 Sep 2001 17:26 Operator: SA
Sample : AR1254L57G Inst : HP_07
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 7:24 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

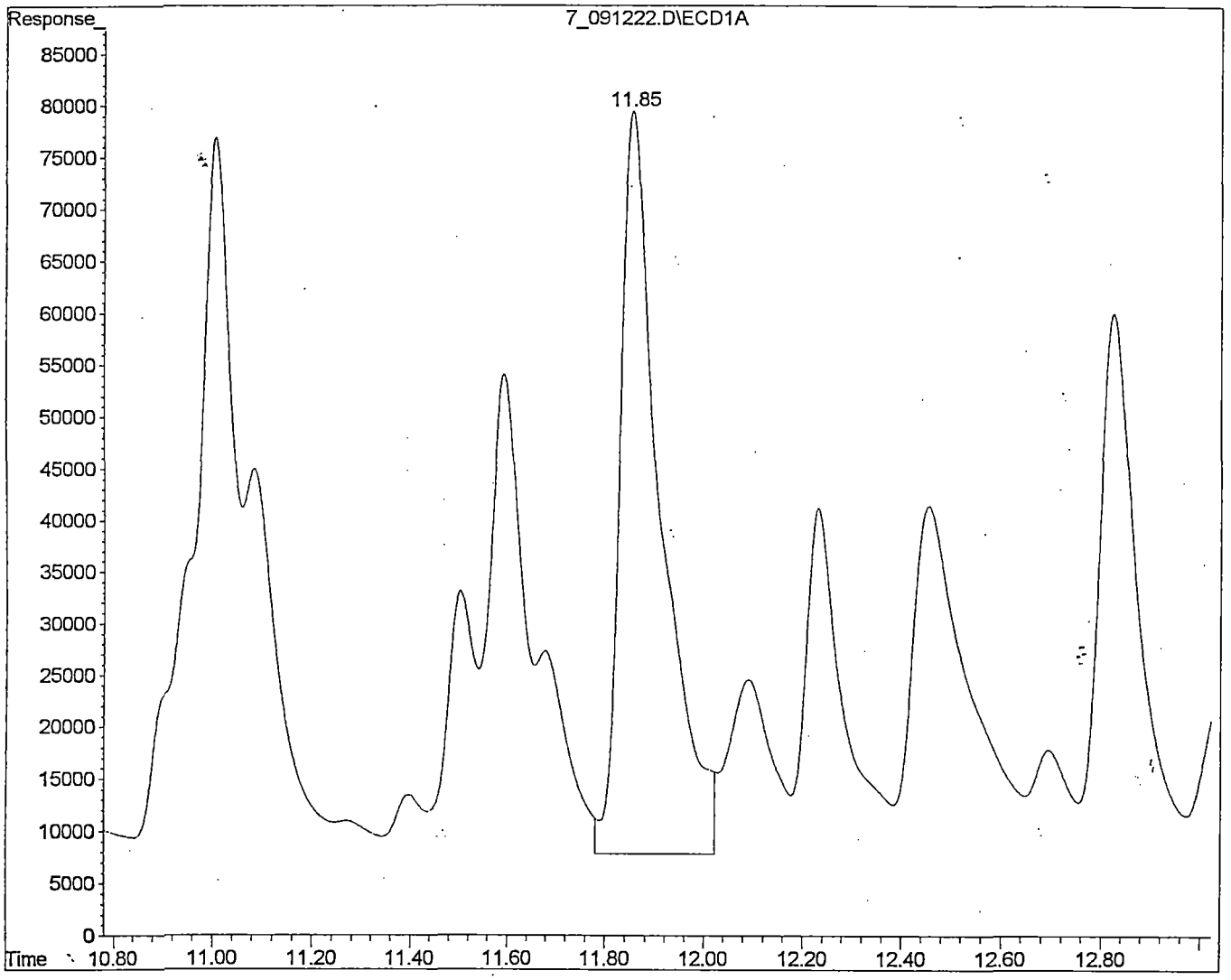
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	3424469	5505480	81.8	100.6 E
22)	S DCB	16.89	17.42	1779147	2002291	80.5	83.1 E
	Target Compounds:						
12)	L6 Aroclor-1254	10.45	10.86f	2360827	4539969	1297.8	1520.1
13)	L6 Aroclor-1254 {2}	11.01f	11.27f	3978884	3662801	771.2 E	1416.2 E#
14)	L6 Aroclor-1254 {3}	11.85f	12.24f	4067597	6834797	1300.5m	1304.0m
15)	L6 Aroclor-1254 {4}	12.82f	13.07f	2847045	3081898	1018.5	1126.2m
16)	L6 Aroclor-1254 {5}	13.39f	13.77f	4163536	5955604	1110.3mE	1172.4mE
	Sum Aroclor-1254			17417889	24075068	5498.2	6538.8
	Average Aroclor-1254					1099.641	1307.766

AS 9.17.01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_12_01\7_091222.D
Date Acquired: 12 Sep 2001 17:26
Inst: HP_07 Operator ID: SA
Name: AR1254L57G
Misc: 5-2-7
Method: F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 13 7:24 2001 Quant Results File: XPCBI12.RES



06.12.01

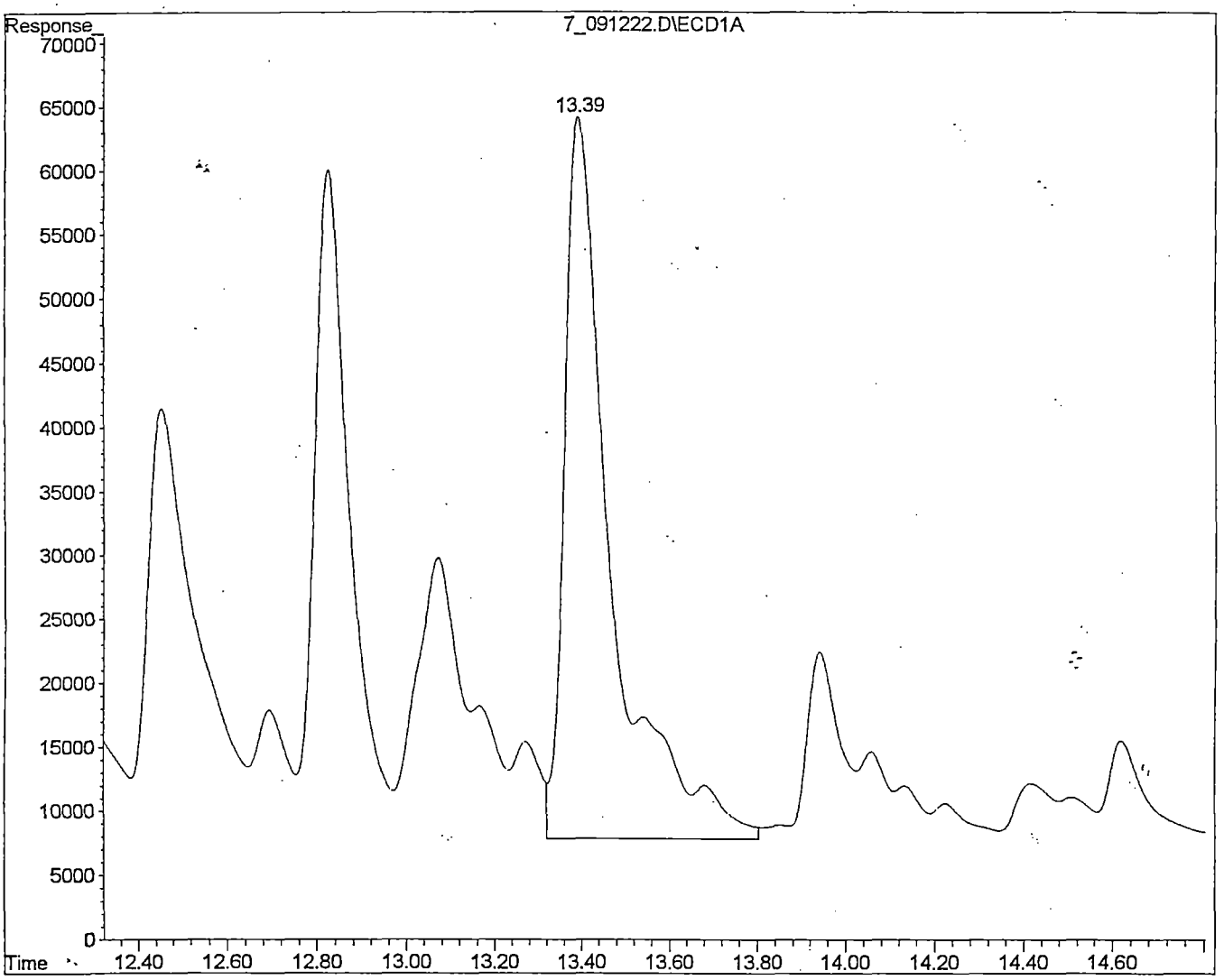
Aroclor-1254 {3} 11.85min area: 4067597 m

Integration Time Range: 11.78 - 12.02

F:\HPCHEM\HP\7\DATA\09_12_01\7_091222.D
Report generated: Thu Sep 13 07:25:13 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_12_01\7_091222.D
Date Acquired: 12 Sep 2001 17:26
Inst: HP_07 Operator ID: SA
Name: AR1254L57G
Misc: 5-2-7
Method: F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 13 7:24 2001 Quant Results File: XPCBI12.RES



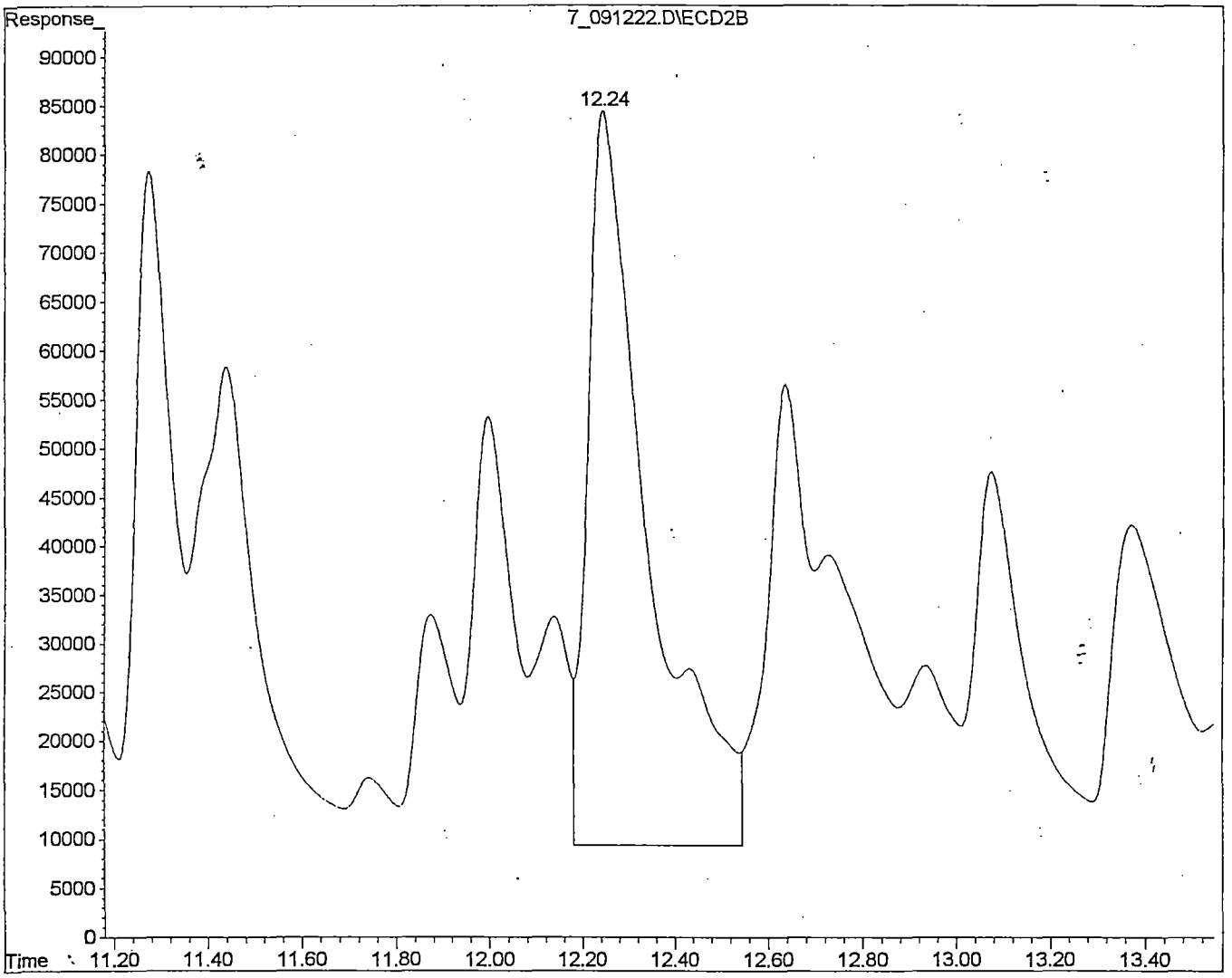
Aroclor-1254 {5} 13.39min area: 4163536 m

Integration Time Range: 13.32 - 13.80

F:\HPCHEM\HP\7\DATA\09_12_01\7_091222.D
Report generated: Thu Sep 13 07:25:14 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_12_01\7_091222.D
Date Acquired: 12 Sep 2001 17:26
Inst: HP_07 Operator ID: SA
Name: AR1254L57G
Misc: 5-2-7
Method: F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 13 7:24 2001 Quant Results File: XPCBI12.RES



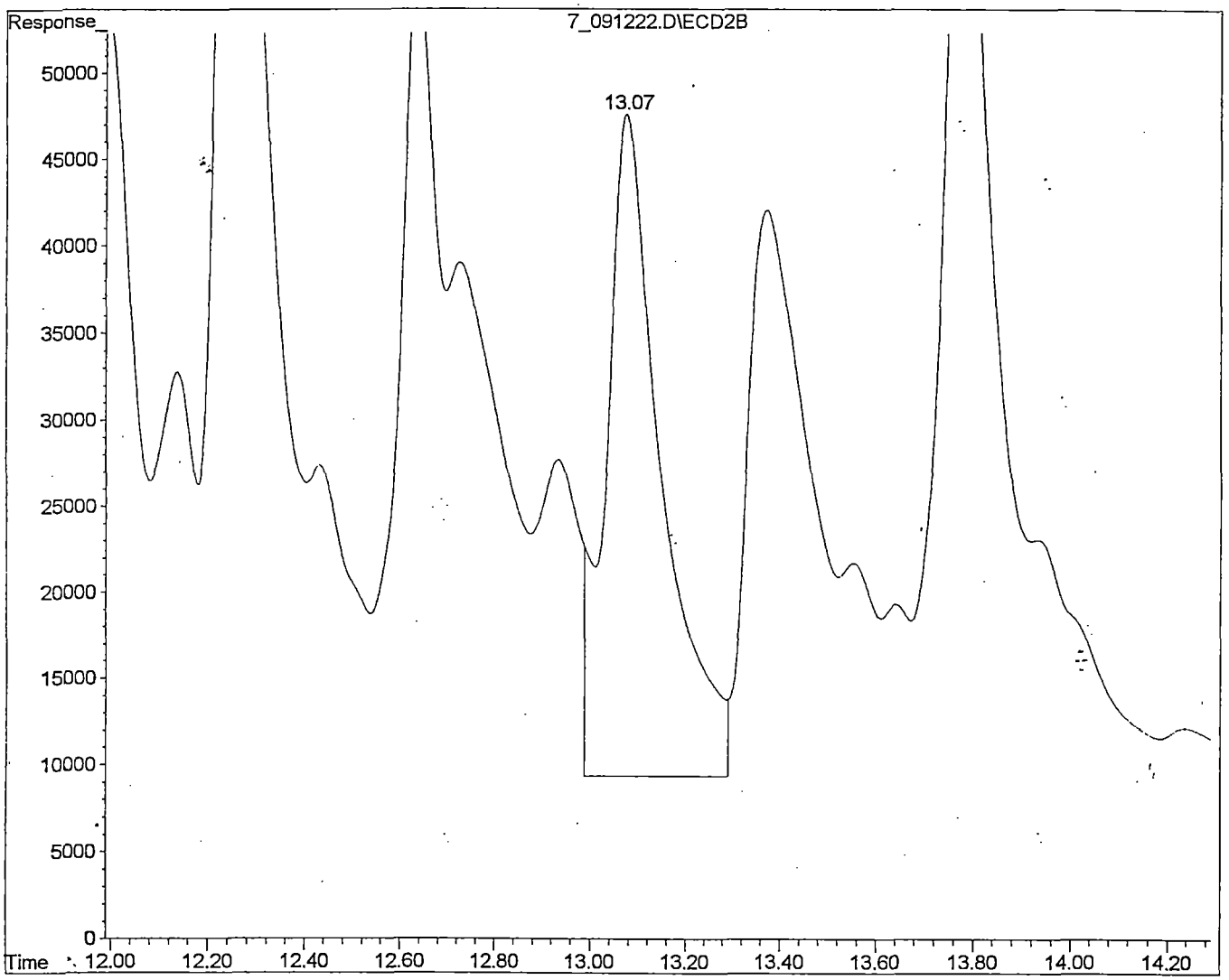
Aroclor-1254 {3} #2 12.24min area: 6834797 m

Integration Time Range: 12.18 - 12.55

F:\HPCHEM\HP\7\DATA\09_12_01\7_091222.D
Report generated: Thu Sep 13 07:25:15 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_12_01\7_091222.D
Date Acquired: 12 Sep 2001 17:26
Inst: HP_07 Operator ID: SA
Name: AR1254L57G
Misc: 5-2-7
Method: F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 13 7:24 2001 Quant Results File: XPCBI12.RES



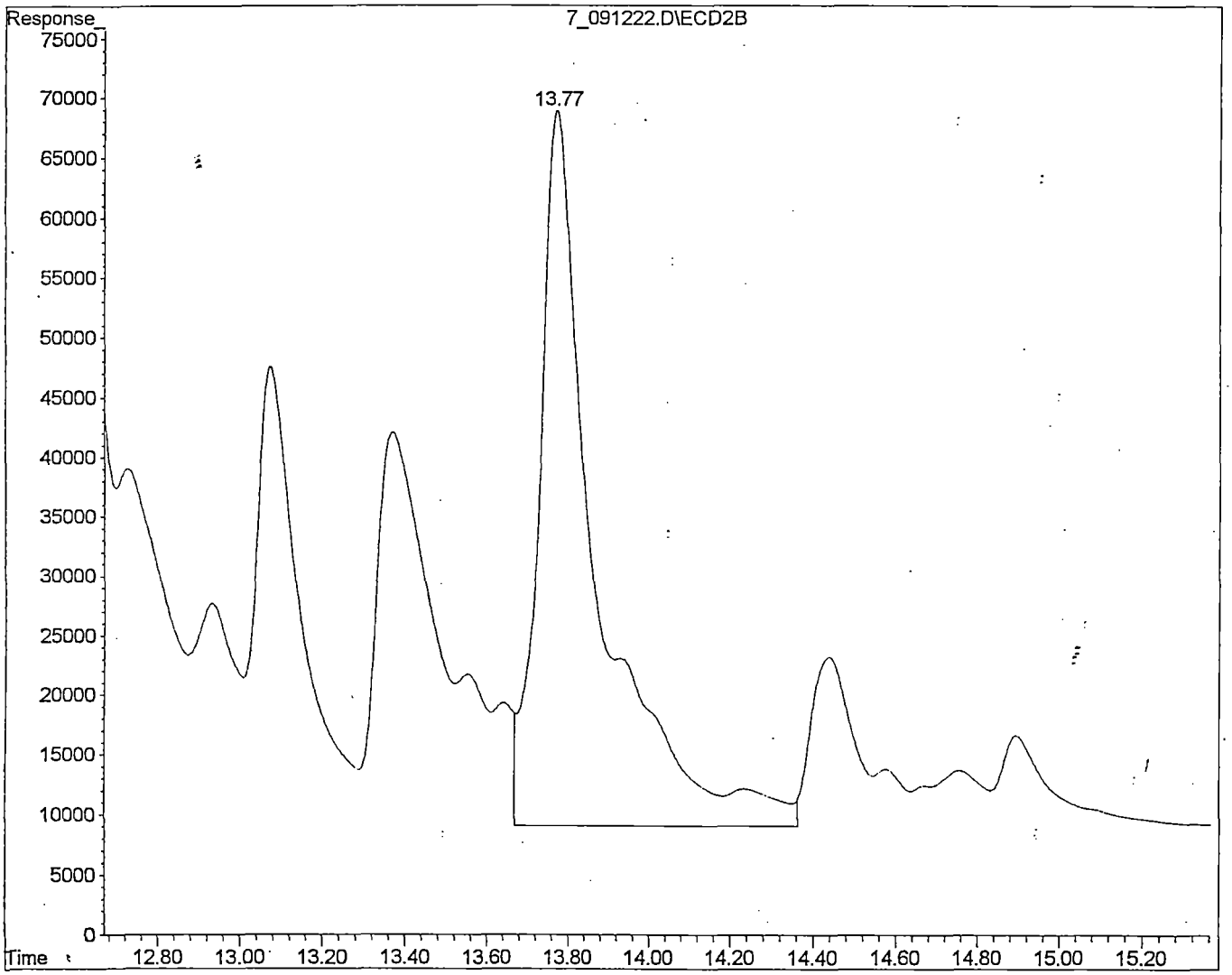
Aroclor-1254 {4} #2 13.07min area: 3081898 m

Integration Time Range: 12.99 - 13.29

F:\HPCHEM\HP\7\DATA\09_12_01\7_091222.D
Report generated: Thu Sep 13 07:25:15 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_12_01\7_091222.D
Date Acquired: 12 Sep 2001 17:26
Inst: HP_07 Operator ID: SA
Name: AR1254L57G
Misc: 5-2-7
Method: F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 13 7:24 2001 Quant Results File: XPCBI12.RES



Aroclor-1254 {5} #2 13.77min area: 5955604 m

Integration Time Range: 13.67 - 14.36

Response Factor Report HP_07

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Thu Sep 13 07:42:41 2001
Response via : Initial Calibration

Calibration Files
L1 =7_091223.D L2 =7_091224.D L3 =7_091225.D
L4 =7_091226.D L5 =7_091227.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
1) TCX	39.6	36.7	47.8	38.7	40.4	40.6 E3	10.47
2) Aroclor-1016	1.1	1.0	1.1	0.9	0.8	1.0 E3	14.06
3) Aroclor-1016 {2}	1.4	1.3	1.5	1.2	1.1	1.3 E3	13.07
4) Aroclor-1016 {3}	2.4	2.4	3.3	2.7	2.8	2.7 E3	13.15
5) Aroclor-1016 {4}	917.0	844.9	1032.4	799.0	796.7	878.0	11.29
6) Aroclor-1016 {5}	1.3	1.2	1.3	1.0	0.9	1.1 E3	16.47
17) Aroclor-1260	2.6	2.3	2.6	2.1	1.9	2.3 E3	12.82
18) Aroclor-1260 {2}	4.1	3.8	4.3	3.5	3.3	3.8 E3	11.20
19) Aroclor-1260 {3}	2.9	2.8	3.4	2.8	2.8	2.9 E3	9.17
20) Aroclor-1260 {4}	1.4	1.3	1.4	1.2	1.2	1.3 E3	5.94
21) Aroclor-1260 {5}	3.1	2.9	3.4	3.0	3.0	3.1 E3	6.84
22) DCB	22.5	21.4	22.7	19.8	19.4	21.2 E3	7.06

Signal #2 Calibration Files
L1 =7_091223.D L2 =7_091224.D L3 =7_091225.D
L4 =7_091226.D L5 =7_091227.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
24) TCX #2	45.6	43.0	59.7	51.2	60.0	51.9 E3	15.07
25) Aroclor-1016 #2	1.2	1.1	1.4	1.1	1.0	1.2 E3	11.84
26) Aroclor-1016 {2} #2	1.5	1.4	1.6	1.3	1.2	1.4 E3	12.21
27) Aroclor-1016 {3} #2	1.2	1.1	1.4	1.1	1.1	1.2 E3	11.65
28) Aroclor-1016 {4} #2	2.6	2.1	2.3	1.7	1.6	2.1 E3	19.50
29) Aroclor-1016 {5} #2	2.3	2.0	2.4	1.9	2.0	2.1 E3	10.34
40) Aroclor-1260 #2	3.7	3.3	3.8	3.1	3.0	3.4 E3	11.14
41) Aroclor-1260 {2} #2	3.3	3.0	3.6	3.0	3.0	3.2 E3	9.04
42) Aroclor-1260 {3} #2	3.0	2.8	3.2	2.7	2.8	2.9 E3	8.15
43) Aroclor-1260 {4} #2	1.8	1.7	2.1	1.7	1.8	1.8 E3	7.85
44) Aroclor-1260 {5} #2	3.0	2.8	3.6	3.1	3.3	3.2 E3	10.10
45) DCB #2	26.0	24.2	25.7	22.3	22.2	24.1 E3	7.47

(#) = Out of Range

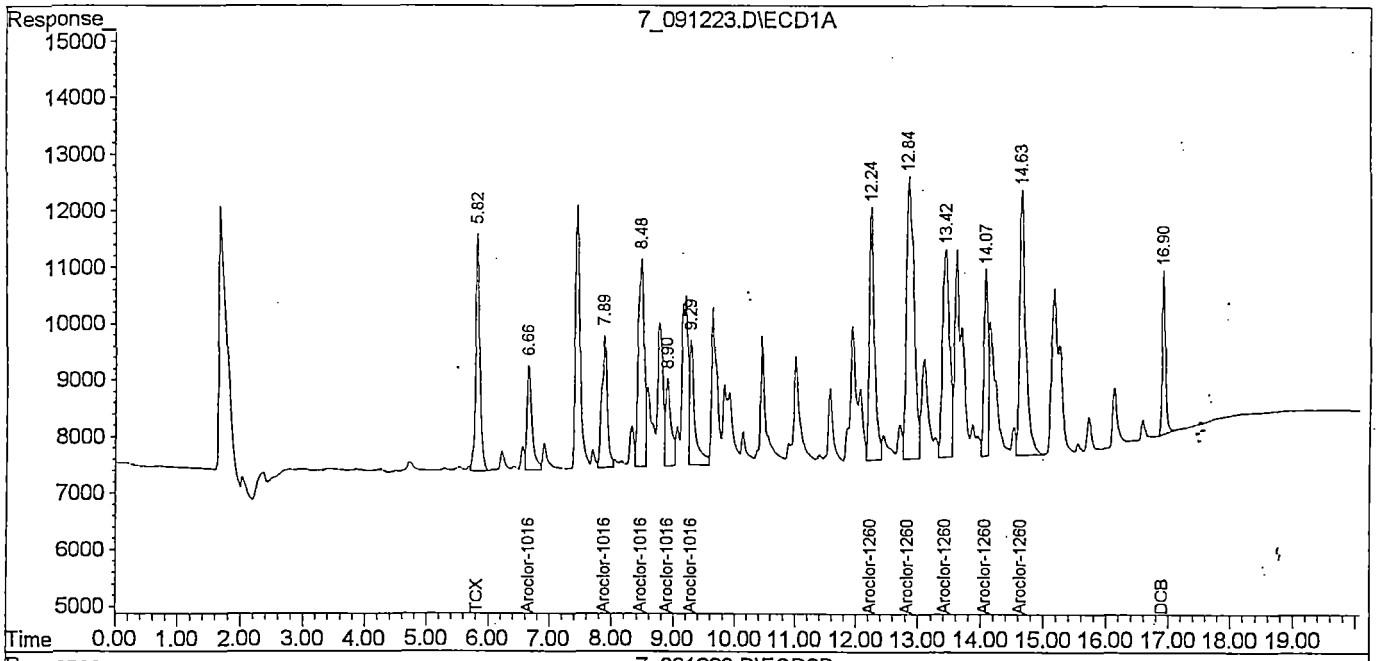
XPCBI12.M Thu Sep 13 07:42:54 2001

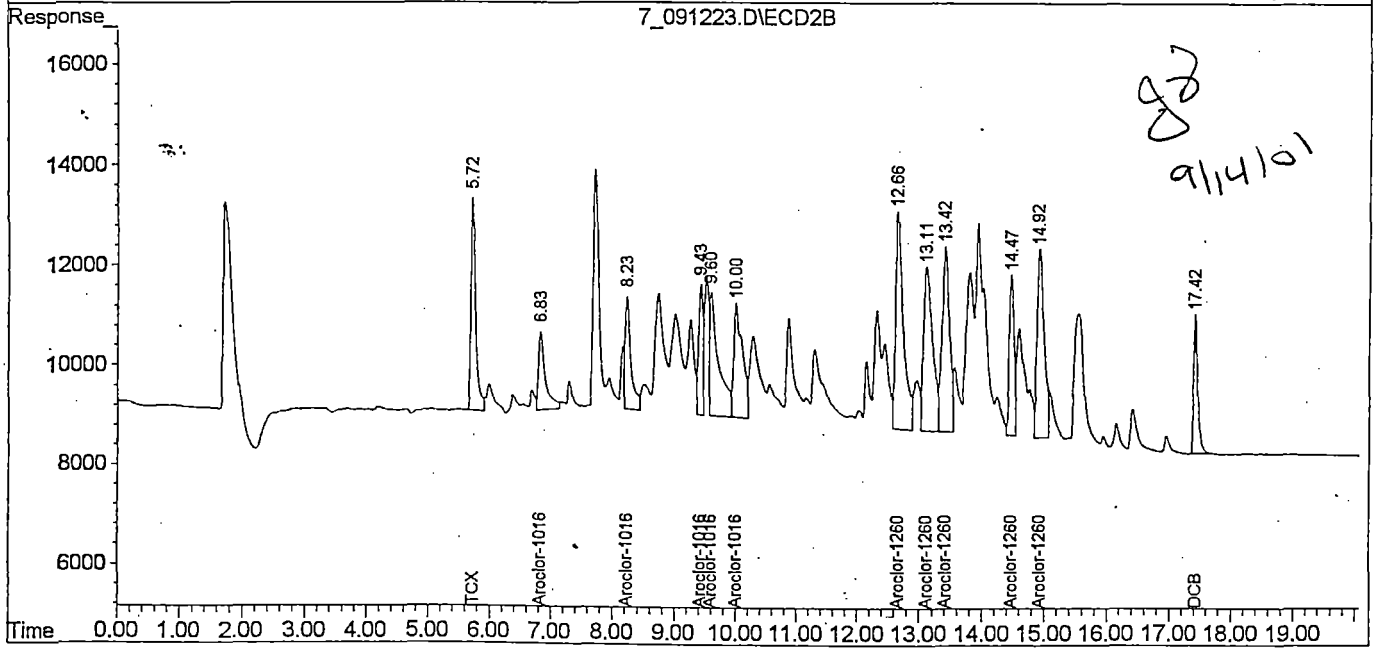
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091223.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091223.D\ECD2B.CH
Acq On : 12 Sep 2001 17:50 Operator: SA
Sample : AR1660L17G Inst : HP_07
Misc : 5-212-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 7:40 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091223.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091223.D\ECD2B.CH
Acq On : 12 Sep 2001 17:50 Operator: SA
Sample : AR1660L17G Inst : HP_07
Misc : 5-212-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 7:40 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

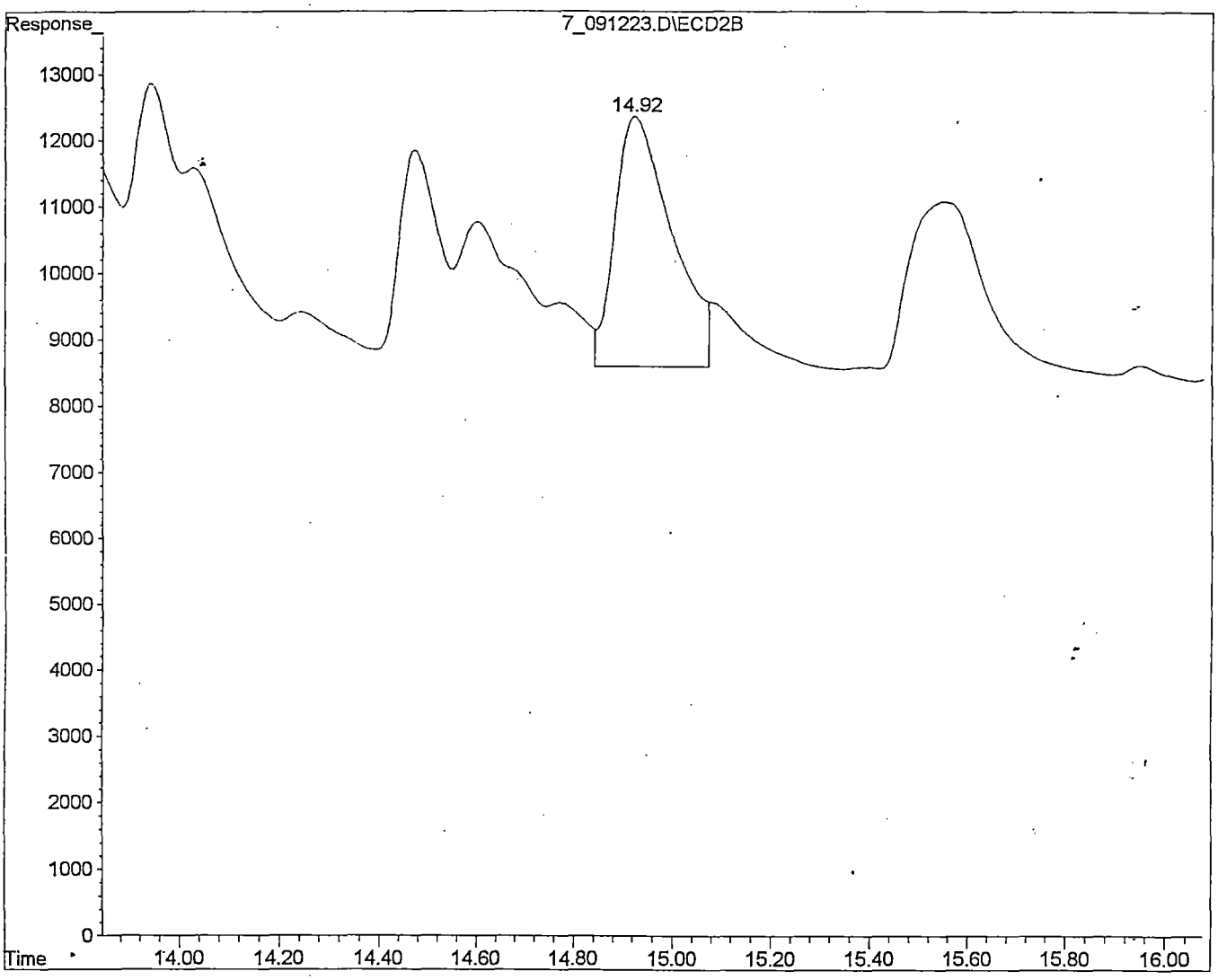
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.72	198211	227904	4.877	4.391
22)	S DCB	16.90	17.42	112419	130180	5.315	5.398
	Target Compounds:						
2)	L1 Aroclor-1016	6.66	6.83	106131	124612	110.0	106.8
3)	L1 Aroclor-1016 {2}	7.89	8.23	140846	153943	107.2	109.5
4)	L1 Aroclor-1016 {3}	8.48	9.43	244429	123287	89.8	105.6
5)	L1 Aroclor-1016 {4}	8.90	9.60	91698	258885	104.4	124.3
6)	L1 Aroclor-1016 {5}	9.29	10.00	129651	225490	114.8	107.2
	Sum Aroclor-1016			712756	886217	526.3	553.4
	Average Aroclor-1016					105.250	110.680
17)	L7 Aroclor-1260	12.24	12.66	257148	372516	111.8	110.3
18)	L7 Aroclor-1260 {2}	12.84	13.12f	410553	334210	108.0	104.4
19)	L7 Aroclor-1260 {3}	13.42f	13.42	289749	301935	98.7	104.3
20)	L7 Aroclor-1260 {4}	14.07	14.47	140261	179763	104.4	98.9
21)	L7 Aroclor-1260 {5}	14.63	14.92f	306640	300964	100.0	88.8m
	Sum Aroclor-1260			1404351	1489388	522.9	506.7
	Average Aroclor-1260					104.575	101.343

D 9.13.01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_12_01\7_091223.D
Date Acquired: 12 Sep 2001 17:50
Inst: HP_07 Operator ID: SA
Name: AR1660L17G
Misc: 5-212-7
Method: F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 13 7:40 2001 Quant Results File: XPCBI12.RES



A 9.13.4

Aroclor-1260 {5} #2 14.92min area: 300964 m

Integration Time Range: 14.84 - 15.07

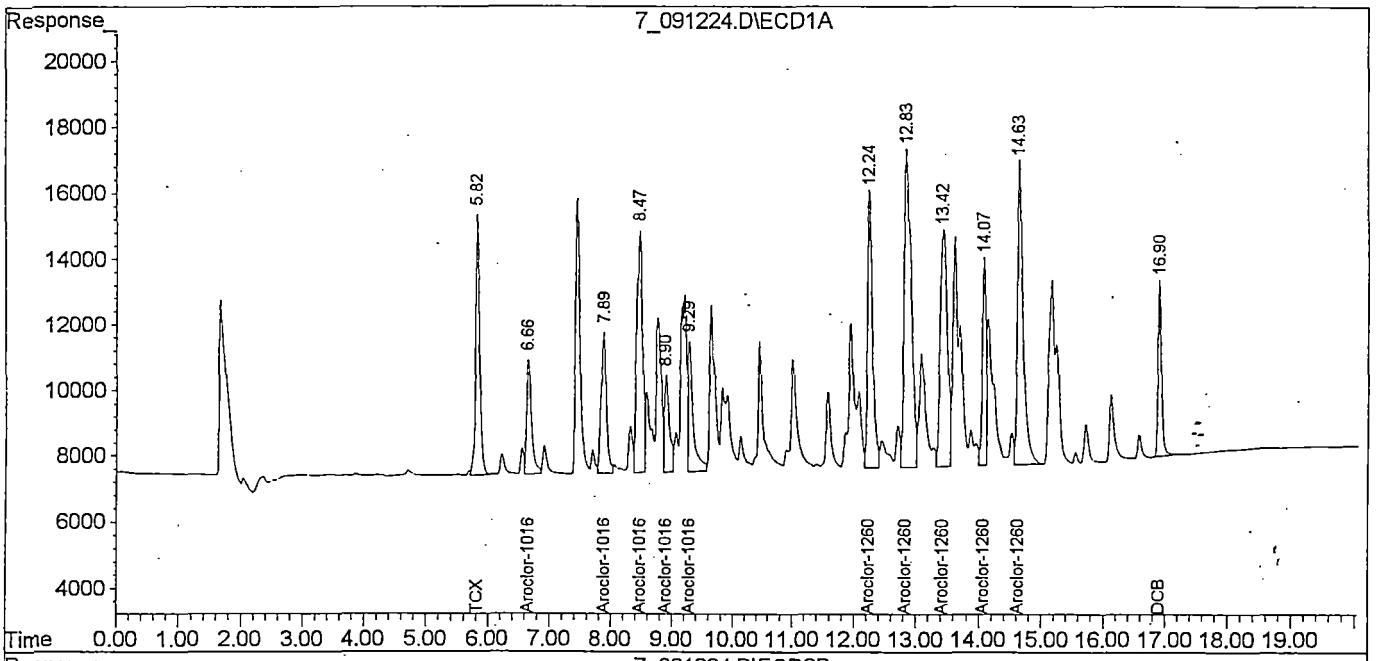
F:\HPCHEM\HP\7\DATA\09_12_01\7_091223.D
Report generated: Thu Sep 13 07:41:39 2001

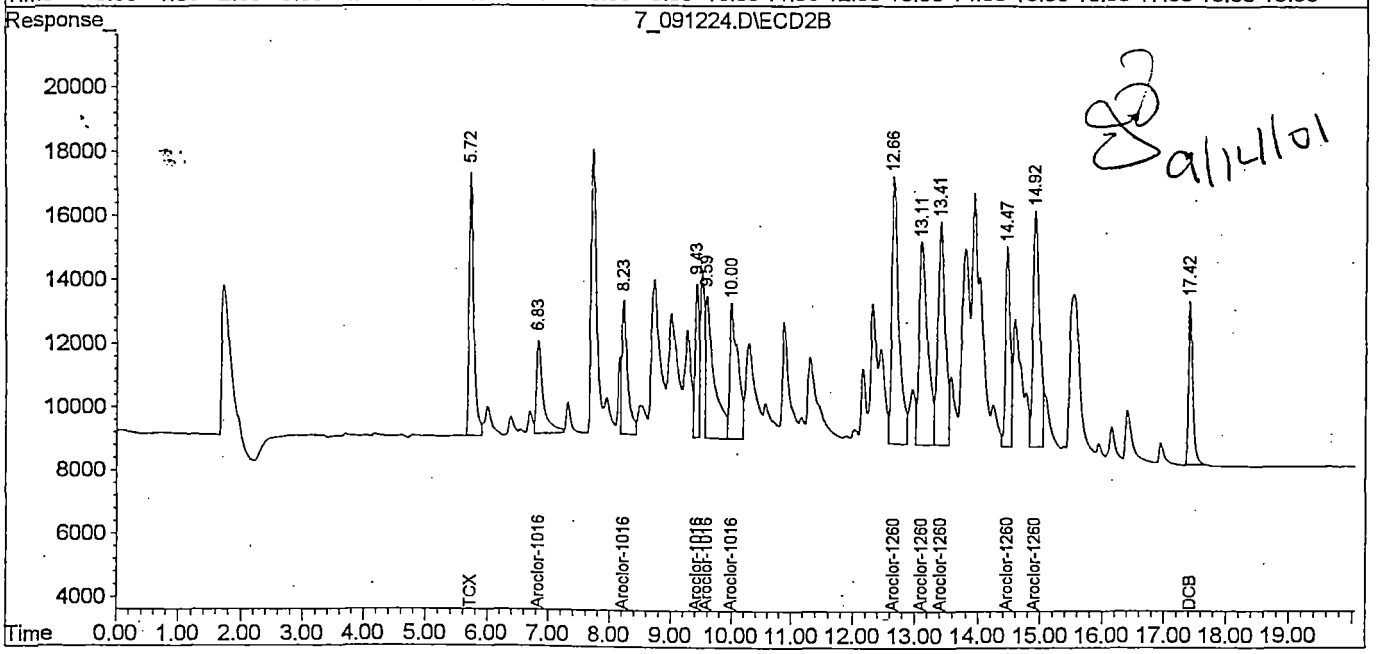
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091224.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091224.D\ECD2B.CH
Acq On : 12 Sep 2001 18:14 Operator: SA
Sample : AR1660L27G Inst : HP_07
Misc : 5-211-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 7:41 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091224.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091224.D\ECD2B.CH
Acq On : 12 Sep 2001 18:14 Operator: SA
Sample : AR1660L27G Inst : HP_07
Misc : 5-211-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 7:41 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

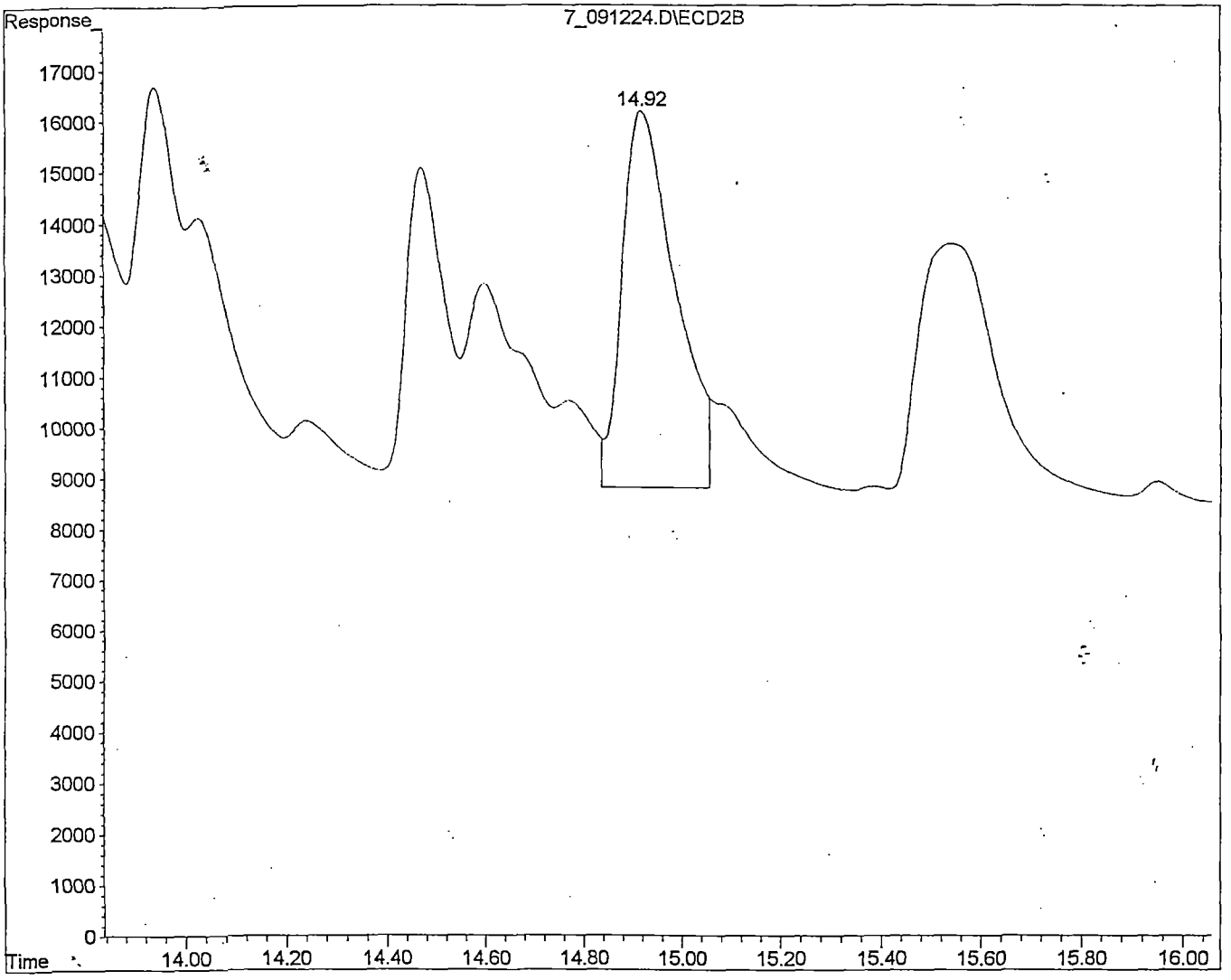
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.72	366849	430387	8.928	7.512
22)	S DCB	16.90	17.42	213959	242317	9.497	9.499
	Target Compounds:						
2)	L1 Aroclor-1016	6.66	6.83	192377	226962	187.4	189.6
3)	L1 Aroclor-1016 {2}	7.89	8.23	261017	270845	177.3	143.6
4)	L1 Aroclor-1016 {3}	8.48	9.43	478982	222560	140.6	175.3
5)	L1 Aroclor-1016 {4}	8.90	9.59	168984	429650	163.6	168.4
6)	L1 Aroclor-1016 {5}	9.29	10.00	234332	394464	158.9	186.2
	Sum Aroclor-1016			1335692	1544482	827.9	863.1
	Average Aroclor-1016					165.571	172.618
17)	L7 Aroclor-1260	12.24	12.66	468406	656446	170.7	166.2
18)	L7 Aroclor-1260 {2}	12.84	13.11	753983	599638	346.6	165.7 #
19)	L7 Aroclor-1260 {3}	13.42	13.42	551113	552131	165.0	165.5
20)	L7 Aroclor-1260 {4}	14.07	14.47	260828	339018	161.3	164.6
21)	L7 Aroclor-1260 {5}	14.63	14.92	585825	552715	157.9	153.3m
	Sum Aroclor-1260			2620155	2699949	1001.5	815.2
	Average Aroclor-1260					200.304	163.046

A 9-13-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_12_01\7_091224.D
Date Acquired: 12 Sep 2001 18:14
Inst: HP_07 Operator ID: SA
Name: AR1660L27G
Misc: 5-211-7
Method: F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 13 7:41 2001 Quant Results File: XPCBI12.RES



Aroclor-1260 {5} #2 14.92min area: 552715 m

Integration Time Range: 14.84 - 15.05

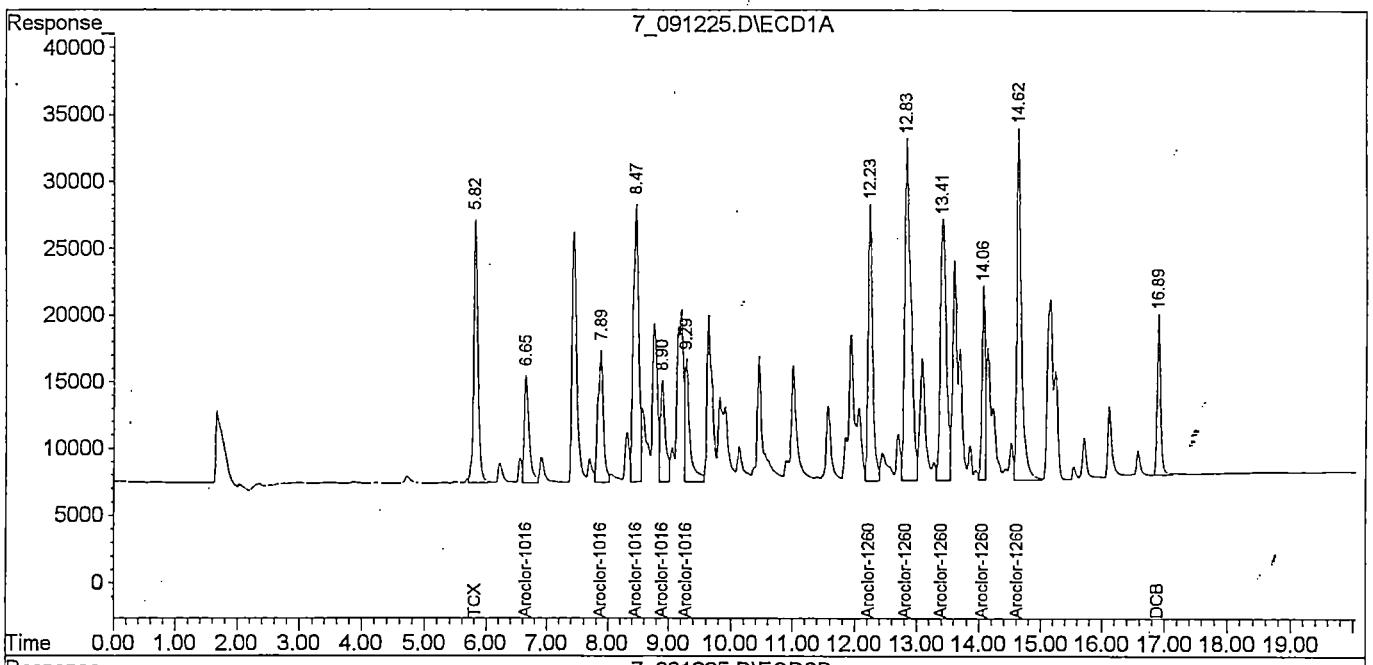
F:\HPCHEM\HP\7\DATA\09_12_01\7_091224.D
Report generated: Thu Sep 13 07:41:40 2001

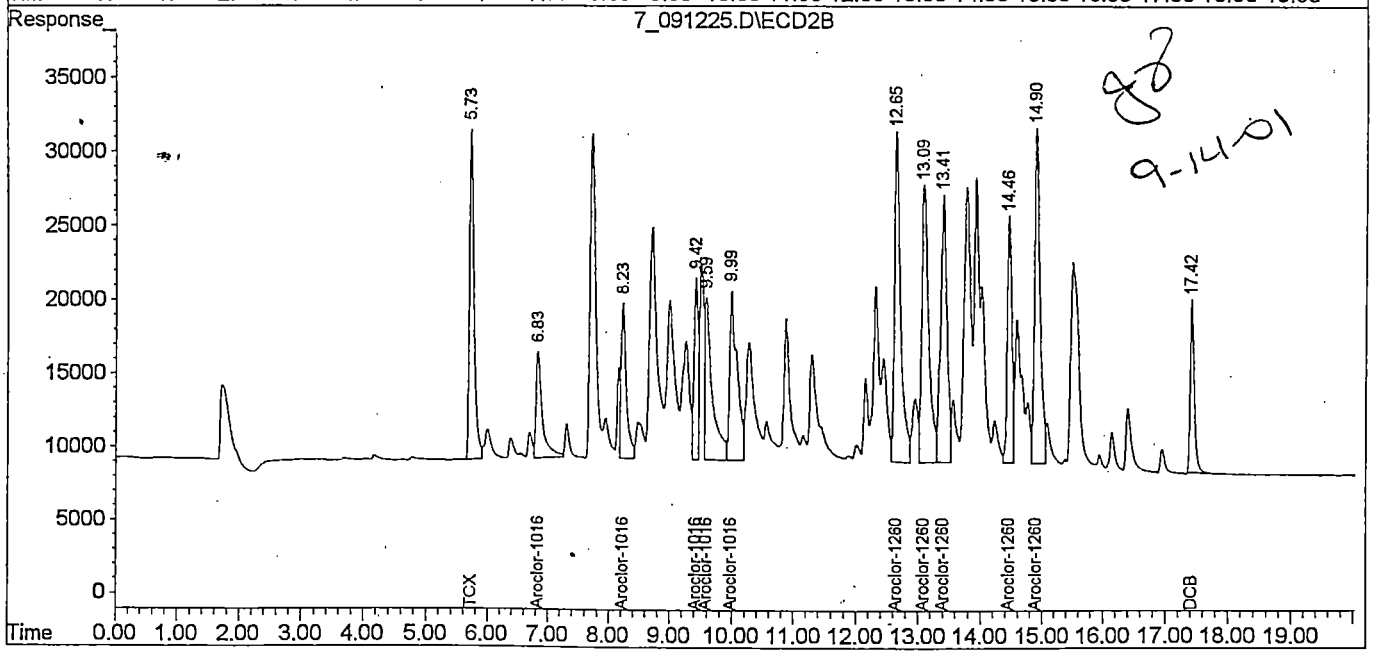
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091225.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091225.D\ECD2B.CH
Acq On : 12 Sep 2001 18:38 Operator: SA
Sample : AR1660L37O Inst : HP_07
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 7:17 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9-14-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091225.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091225.D\ECD2B.CH
Acq On : 12 Sep 2001 18:38 Operator: SA
Sample : AR1660L37O Inst : HP_07
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 7:17 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.73	956722	1193349	23.3	20.8	
22)	S DCB	16.89	17.42	453155	514651	20.1	20.2	
	Target Compounds:							
2)	L1 Aroclor-1016	6.66	6.83	453413	545370	441.8	455.7	
3)	L1 Aroclor-1016 {2}	7.89	8.23	619763	652529	420.9	346.0	
4)	L1 Aroclor-1016 {3}	8.47	9.42	1312767	549884	385.4	433.1	
5)	L1 Aroclor-1016 {4}	8.90	9.59	412958	929841	399.9	364.3	
6)	L1 Aroclor-1016 {5}	9.29	9.99	522594	964139	354.4	455.1	#
	Sum Aroclor-1016			3321495	3641763	2002.3	2054.2	
	Average Aroclor-1016					400.462	410.842	
17)	L7 Aroclor-1260	12.24	12.65	1035642	1527553	377.5	386.8	
18)	L7 Aroclor-1260 {2}	12.83	13.09	1733695	1459241	796.9	403.1	#
19)	L7 Aroclor-1260 {3}	13.41	13.41	1362854	1299809	408.1	389.6	
20)	L7 Aroclor-1260 {4}	14.06	14.46	549274	823833	339.6	399.9	
21)	L7 Aroclor-1260 {5}	14.62	14.90	1371613	1439628	369.8	399.3	
	Sum Aroclor-1260			6053077	6550064	2291.9	1978.7	
	Average Aroclor-1260					458.370	395.742	

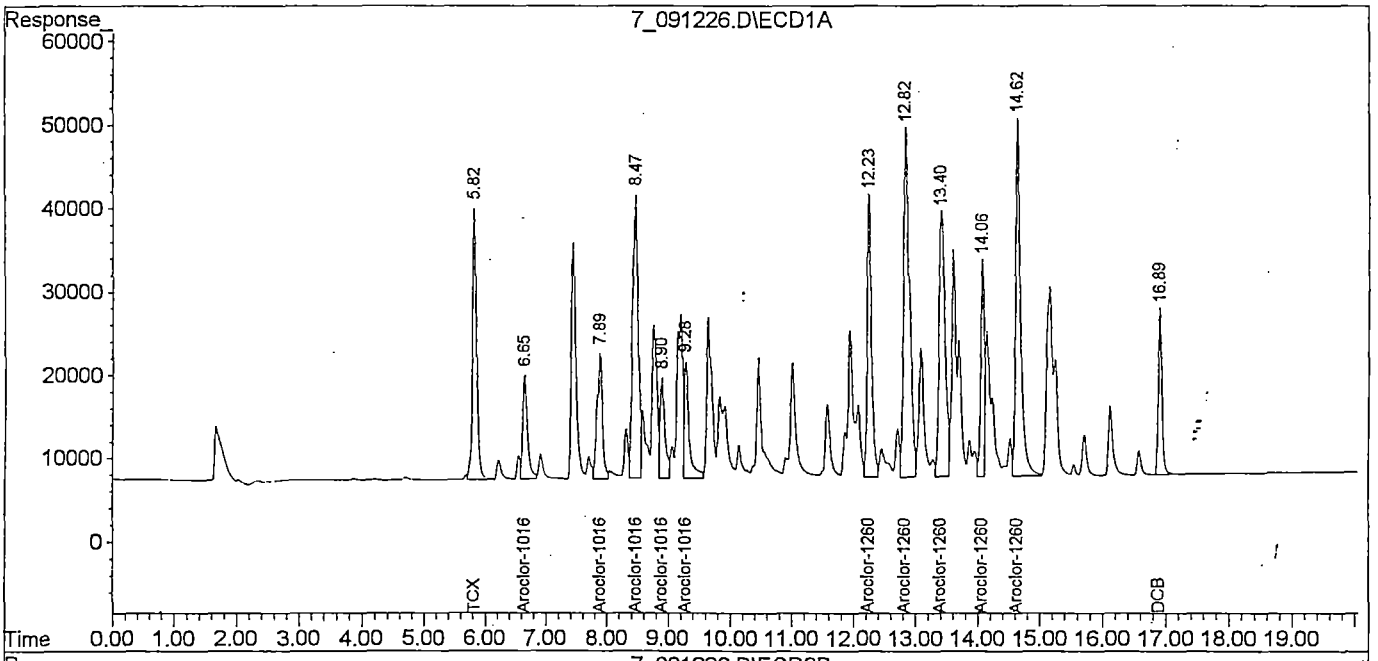
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

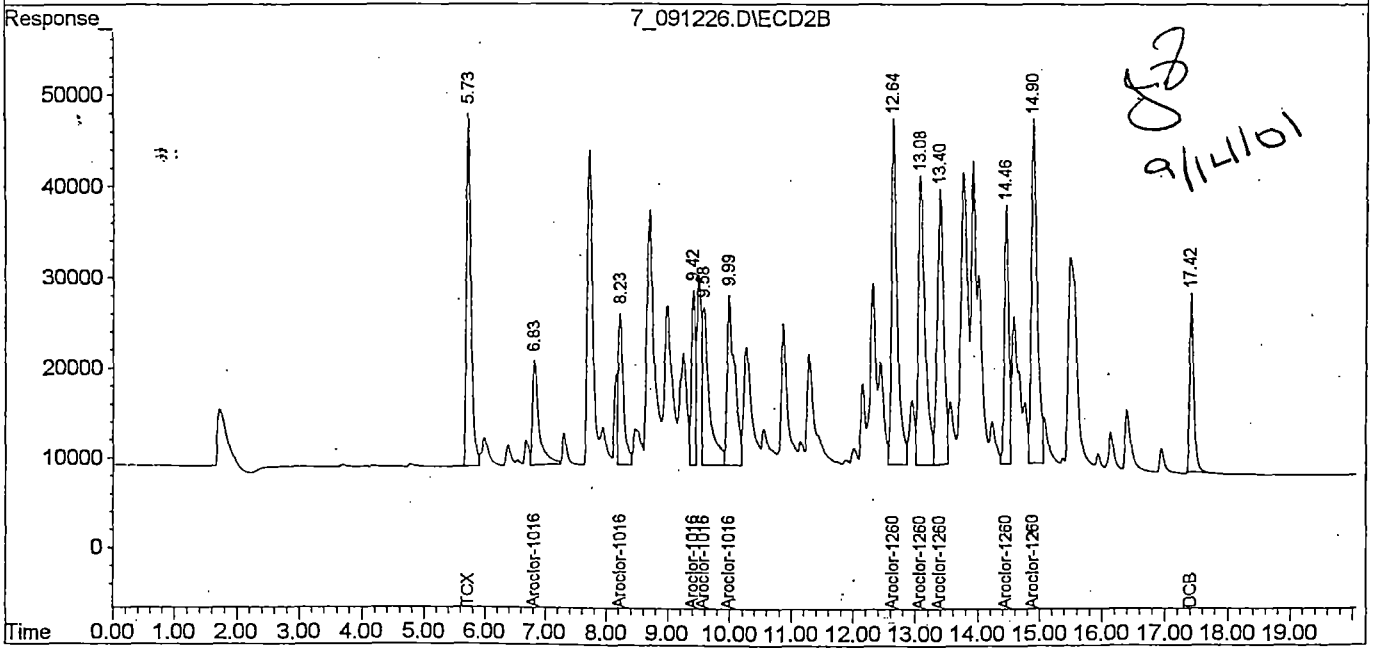
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091226.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091226.D\ECD2B.CH
Acq On : 12 Sep 2001 19:02 Operator: SA
Sample : AR1660L47G Inst : HP_07
Misc : 5-209-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 7:18 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





8
9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091226.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091226.D\ECD2B.CH
Acq On : 12 Sep 2001 19:02 Operator: SA
Sample : AR1660L47G Inst : HP_07
Misc : 5-209-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 7:18 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.73	1546222	2049268	37.6	35.8	
22)	S DCB	16.89	17.42	791650	893517	35.1	35.0	
	Target Compounds:							
2)	L1 Aroclor-1016	6.65	6.83	684879	843722	667.3	705.0	
3)	L1 Aroclor-1016 {2}	7.89	8.23	942715	1006680	640.2	533.8	
4)	L1 Aroclor-1016 {3}	8.47	9.42	2130505	846521	625.4	666.7	
5)	L1 Aroclor-1016 {4}	8.90	9.58	639185	1389078	618.9	544.3	
6)	L1 Aroclor-1016 {5}	9.28	9.99	780503	1524941	529.3	719.8	#
	Sum Aroclor-1016			5177788	5610941	3081.2	3169.6	
	Average Aroclor-1016					616.234	633.914	
17)	L7 Aroclor-1260	12.23	12.65	1650592	2440055	601.6	617.8	
18)	L7 Aroclor-1260 {2}	12.82	13.09f	2776255	2388388	1276.1	659.8	#
19)	L7 Aroclor-1260 {3}	13.40	13.40	2241137	2146730	671.1	643.5	
20)	L7 Aroclor-1260 {4}	14.06	14.46	997514	1387097	616.7	673.3	
21)	L7 Aroclor-1260 {5}	14.62	14.90	2360586	2491433	636.4	691.1	
	Sum Aroclor-1260			10026083	10853703	3802.0	3285.4	
	Average Aroclor-1260					760.391	657.089	

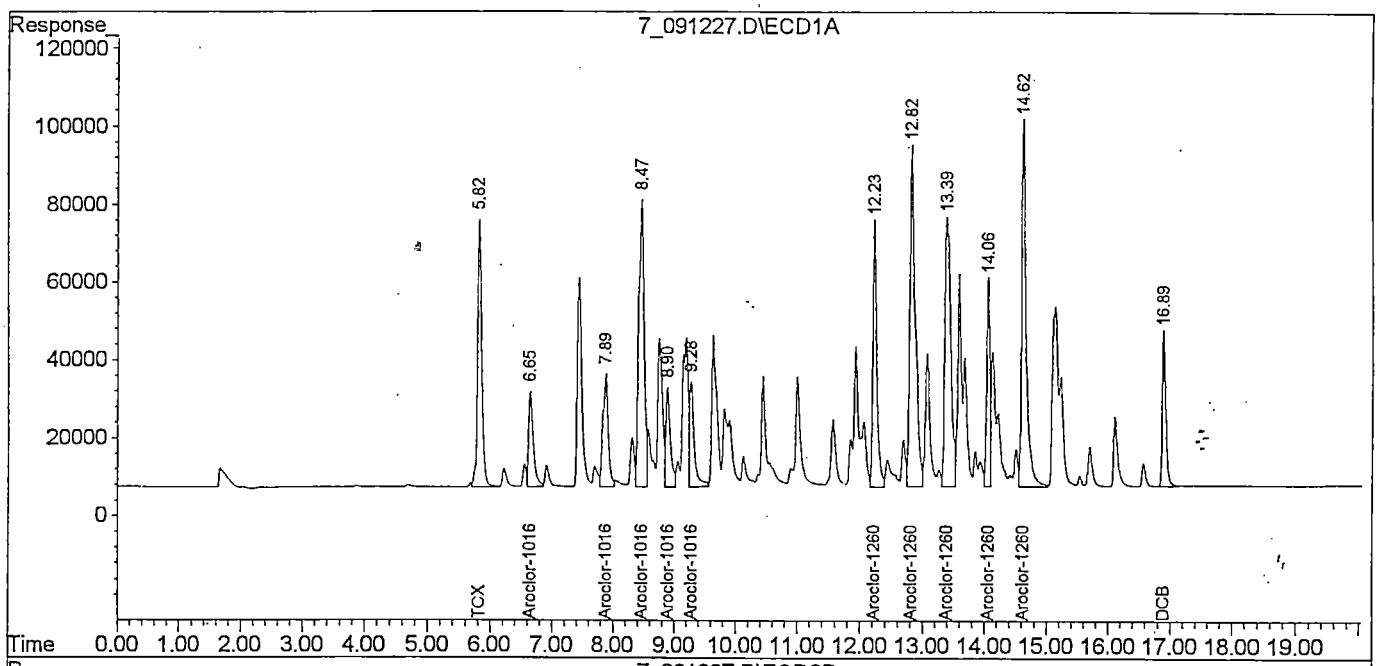
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

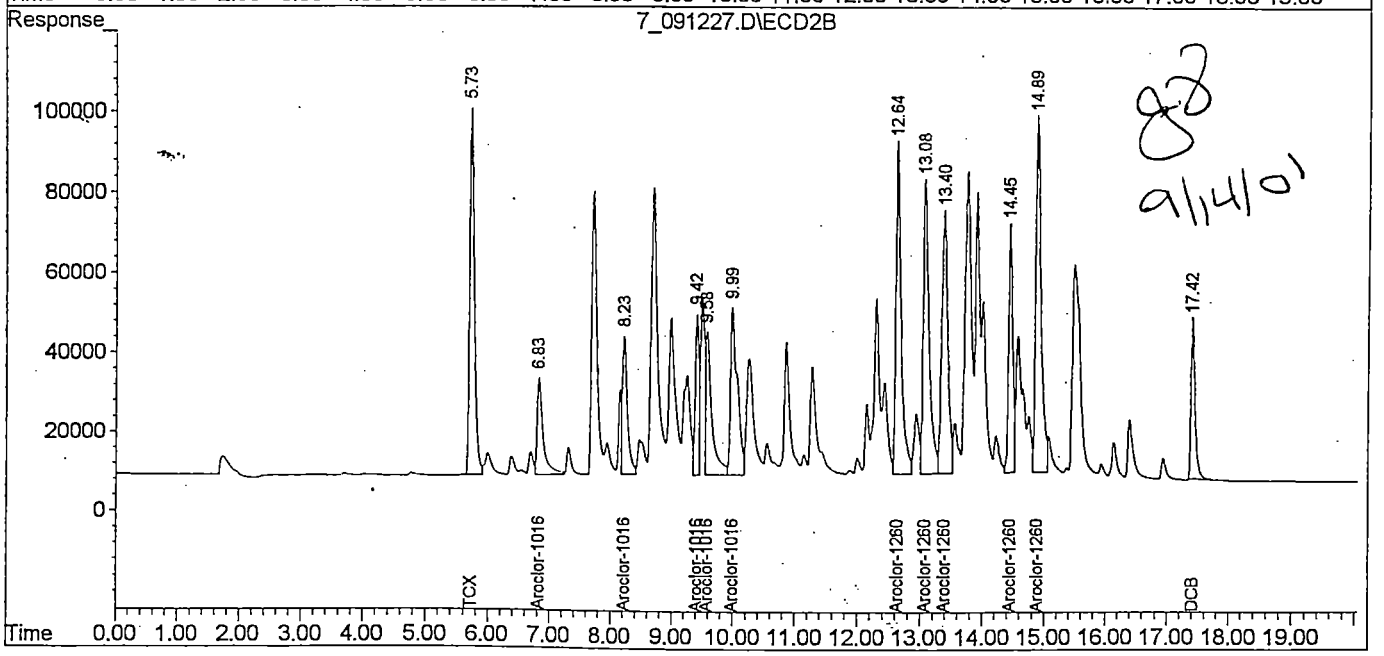
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091227.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091227.D\ECD2B.CH
Acq On : 12 Sep 2001 19:26 Operator: SA
Sample : AR1660L57G Inst : HP_07
Misc : 5-208-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 7:19 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





8-8
9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091227.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\7\DATA\09_12_01\7_091227.D\ECD2B.CH
Acq On : 12 Sep 2001 19:26 Operator: SA
Sample : AR1660L57G Inst : HP_07
Misc : 5-208-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 7:19 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_12_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds:						
1) S TCX	5.82	5.73	3231892	4799716	78.7 E	83.8
22) S DCB	16.89	17.42	1554313	1779231	69.0 E	69.7 E
Target Compounds:						
2) L1 Aroclor-1016	6.65	6.83	1295938	1653382	1262.7	1381.6 E
3) L1 Aroclor-1016 {2}	7.89	8.23	1802535	1997431	1224.1	1059.2 E
4) L1 Aroclor-1016 {3}	8.47	9.42	4526785	1694058	1328.8	1334.1
5) L1 Aroclor-1016 {4}	8.90	9.58	1274709	2580871	1234.3	1011.3 E
6) L1 Aroclor-1016 {5}	9.28	9.99	1435925	3161711	973.8	1492.3 E#
Sum Aroclor-1016			10335892	11087453	6023.8	6278.5
Average Aroclor-1016					1204.752	1255.701
17) L7 Aroclor-1260	12.23	12.64	3097064	4817821	1128.9 E	1219.8 E
18) L7 Aroclor-1260 {2}	12.82	13.08f	5302419	4854502	2437.3	1341.1 E#
19) L7 Aroclor-1260 {3}	13.39f	13.40	4497496	4412771	1346.8	1322.7 E
20) L7 Aroclor-1260 {4}	14.06	14.46	1956338	2877443	1209.5	1396.7 E
21) L7 Aroclor-1260 {5}	14.62	14.89f	4730496	5352463	1275.2	1484.7 E
Sum Aroclor-1260			19583813	22315000	7397.7	6765.0
Average Aroclor-1260					1479.541	1352.998

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

Continuing Calibration Report HP_07

Method : F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Fri Sep 14 06:59:25 2001
Response via : Initial Calibration

Continuing Calibration File: 7_091348.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	40.643	42.605	E3	-4.8	89
2	L1	Aroclor-1016	0.965	1.032	E3	-7.0	91
3	L1	Aroclor-1016 {2}	1.314	1.387	E3	-5.6	90
4	L1	Aroclor-1016 {3}	2.723	2.859	E3	-5.0	87
5	L1	Aroclor-1016 {4}	877.995	933.023		-6.3	90
6	L1	Aroclor-1016 {5}	1.130	1.156	E3	-2.4	89
17	L7	Aroclor-1260	2.300	2.334	E3	-1.4	90
18	L7	Aroclor-1260 {2}	3.799	3.953	E3	-4.0	91
19	L7	Aroclor-1260 {3}	2.935	3.174	E3	-8.2	93
20	L7	Aroclor-1260 {4}	1.310	1.430	E3	-9.2	104
21	L7	Aroclor-1260 {5}	3.066	3.513	E3	-14.6	102
22	S	DCB	21.152	27.120	E3	-28.2#	120

Signal #2
Continuing Calibration File: 7_091348.D

		Compound	AvgRF	CCRF		%Dev	Area%	
1	S	TCX	51.903	52.814	E3	-1.8	89	
2	L1	Aroclor-1016	1.166	1.321	E3	-13.3	97	
3	L1	Aroclor-1016 {2}	1.406	1.489	E3	-5.9	91	
4	L1	Aroclor-1016 {3}	1.167	1.234	E3	-5.7	90	
5	L1	Aroclor-1016 {4}	2.082	2.022	E3	2.9	87	
6	L1	Aroclor-1016 {5}	2.104	2.153	E3	-2.3	89	
17	L7	Aroclor-1260	3.377	3.458	E3	-2.4	91	
18	L7	Aroclor-1260 {2}	3.202	3.544	E3	-10.7	97	
19	L7	Aroclor-1260 {3}	2.894	3.066	E3	-5.9	94	13.7
20	L7	Aroclor-1260 {4}	1.817	2.160	E3	-18.9#	105	
21	L7	Aroclor-1260 {5}	3.166	4.137	E3	-30.6#	115	
22	S	DCB	24.116	33.424	E3	-38.6#	130	

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

7_091348.D XPCBI12.M Fri Sep 14 06:59:36 2001

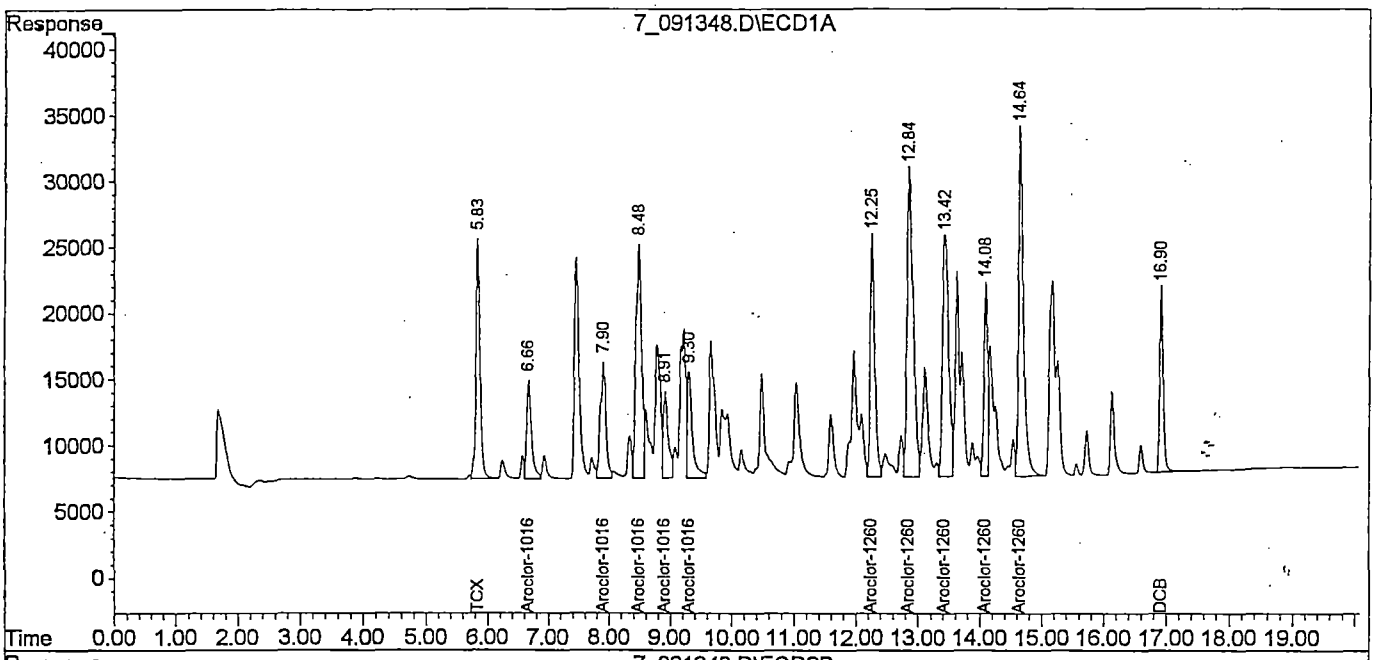
COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29602 SDG F0215
Signature Angela M. Wallace
Date 09/22/01

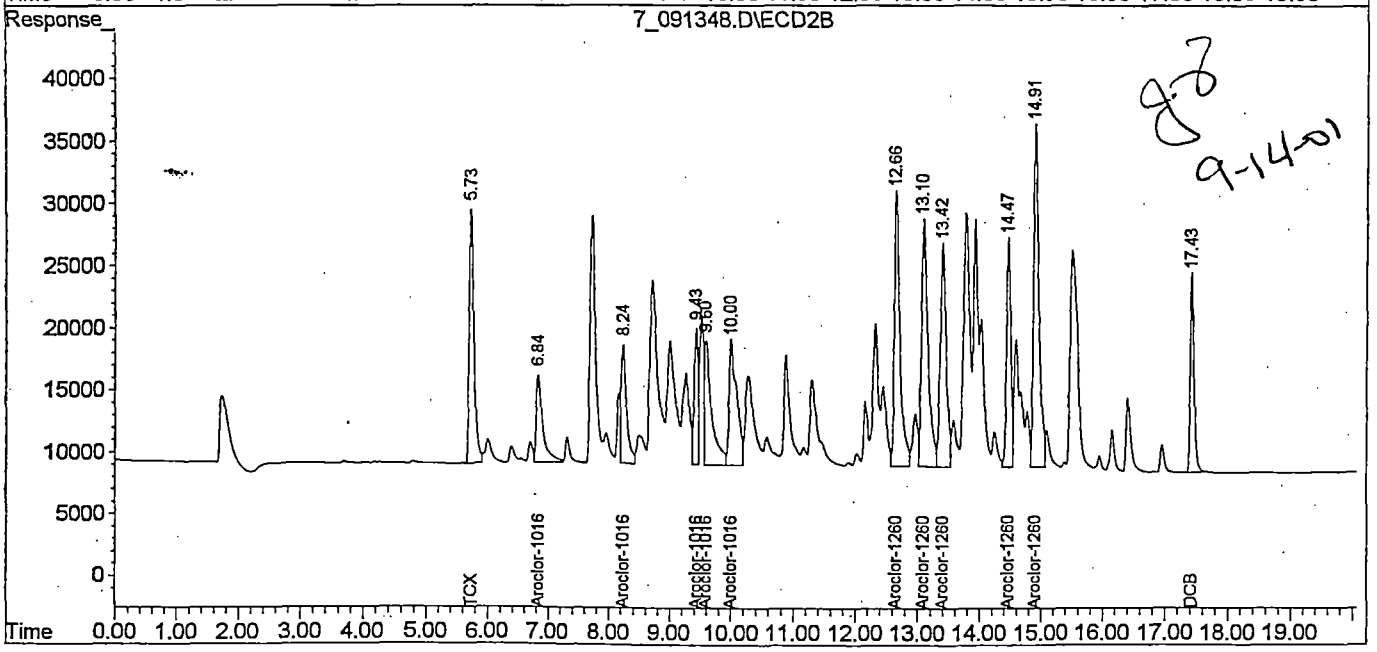
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091348.D\ECD1A.CH Vial: 48
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091348.D\ECD2B.CH
Acq On : 14 Sep 2001 4:32 Operator: SA
Sample : AR1660L375 Inst : HP_07
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 6:59 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9-14-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091348.D\ECD1A.CH Vial: 48
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091348.D\ECD2B.CH
Acq On : 14 Sep 2001 4:32 Operator: SA
Sample : AR1660L375 Inst : HP_07
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 6:59 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.83	5.74	852106	1056282	21.0	20.4
22)	S DCB	16.91	17.43	542393	668484	25.6	27.7
	Target Compounds:						
2)	L1 Aroclor-1016	6.66	6.84	412922	528589	428.1	453.2
3)	L1 Aroclor-1016 {2}	7.90	8.24	554717	595508	422.3	423.4
4)	L1 Aroclor-1016 {3}	8.48	9.43	1143404	493624	420.0	422.8
5)	L1 Aroclor-1016 {4}	8.91	9.60	373209	808989	425.1	388.5
6)	L1 Aroclor-1016 {5}	9.30	10.00	462536	861005	409.5	409.2
	Sum Aroclor-1016			2946789	3287716	2104.9	2097.2
	Average Aroclor-1016					420.979	419.433
17)	L7 Aroclor-1260	12.25	12.66	933434	1383340	405.8	409.6
18)	L7 Aroclor-1260 {2}	12.84	13.10	1581051	1417556	416.2	442.8
19)	L7 Aroclor-1260 {3}	13.42	13.42	1269683	1226479	432.7	423.8
20)	L7 Aroclor-1260 {4}	14.08	14.47	572012	864144	436.7	475.6
21)	L7 Aroclor-1260 {5}	14.64	14.91	1405135	1654625	458.2	522.6
	Sum Aroclor-1260			5761315	6546143	2149.6	2274.3
	Average Aroclor-1260					429.916	454.857

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

Continuing Calibration Report HP_07

Method : F:\HPCHEM\HP\7\DATA\09_14_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Mon Sep 24 10:23:57 2001
Response via : Initial Calibration

Continuing Calibration File: 7_091410.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	40.643	43.930	E3	-8.1	92
2	L1	Aroclor-1016	0.965	1.046	E3	-8.4	92
3	L1	Aroclor-1016 {2}	1.314	1.404	E3	-6.9	91
4	L1	Aroclor-1016 {3}	2.723	2.862	E3	-5.1	87
5	L1	Aroclor-1016 {4}	877.995	925.023		-5.4	90
6	L1	Aroclor-1016 {5}	1.130	1.168	E3	-3.4	89
17	L7	Aroclor-1260	2.300	2.248	E3	2.3	87
18	L7	Aroclor-1260 {2}	3.799	3.743	E3	1.5	86
19	L7	Aroclor-1260 {3}	2.935	2.944	E3	-0.3	86
20	L7	Aroclor-1260 {4}	1.310	1.335	E3	-1.9	97
21	L7	Aroclor-1260 {5}	3.066	3.265	E3	-6.5	95
22	S	DCB	21.152	24.021	E3	-13.6	106

Signal #2
Continuing Calibration File: 7_091410.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	51.903	55.500	E3	-6.9	93
2	L1	Aroclor-1016	1.166	1.351	E3	-15.8#	99
3	L1	Aroclor-1016 {2}	1.406	1.518	E3	-7.9	93
4	L1	Aroclor-1016 {3}	1.167	1.237	E3	-5.9	90
5	L1	Aroclor-1016 {4}	2.082	2.139	E3	-2.7	92
6	L1	Aroclor-1016 {5}	2.104	2.145	E3	-2.0	89
17	L7	Aroclor-1260	3.377	3.313	E3	1.9	87
18	L7	Aroclor-1260 {2}	3.202	3.304	E3	-3.2	91
19	L7	Aroclor-1260 {3}	2.894	2.926	E3	-1.1	90
20	L7	Aroclor-1260 {4}	1.817	1.987	E3	-9.3	96
21	L7	Aroclor-1260 {5}	3.166	3.776	E3	-19.3#	105
22	S	DCB	24.116	29.176	E3	-21.0#	113

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

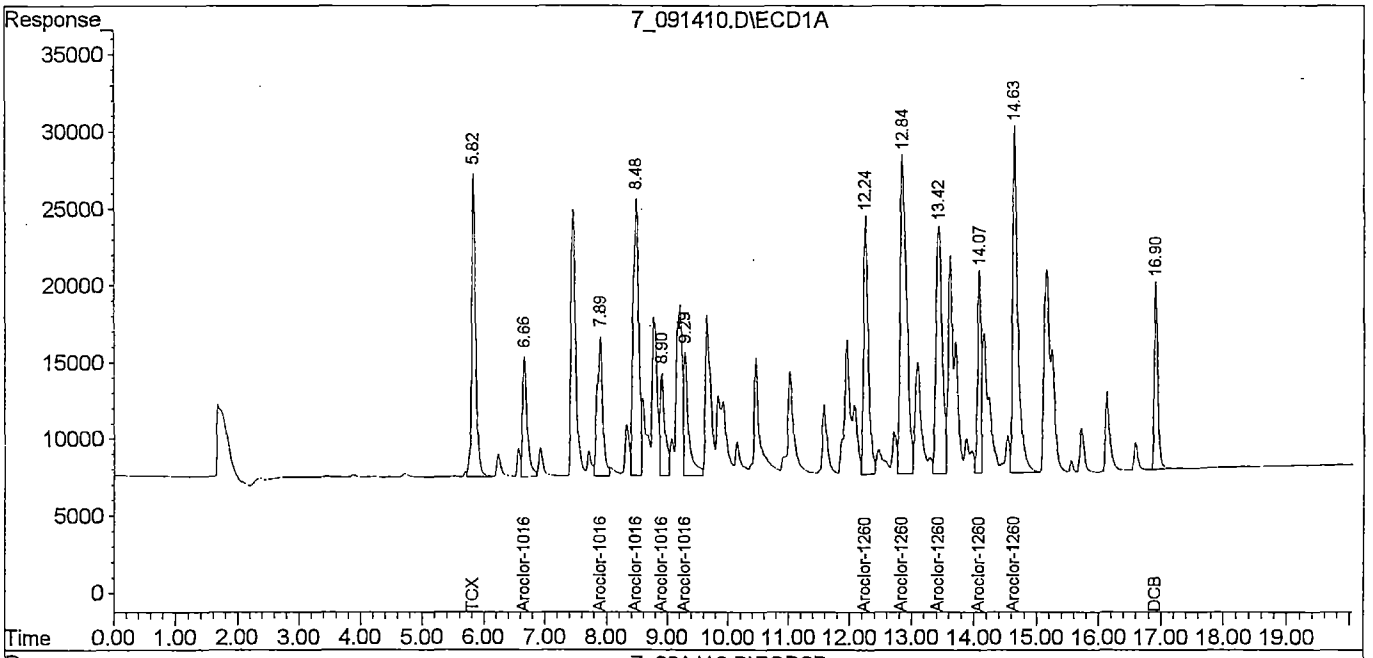
7_091410.D XPCBI12.M Mon Sep 24 10:24:06 2001

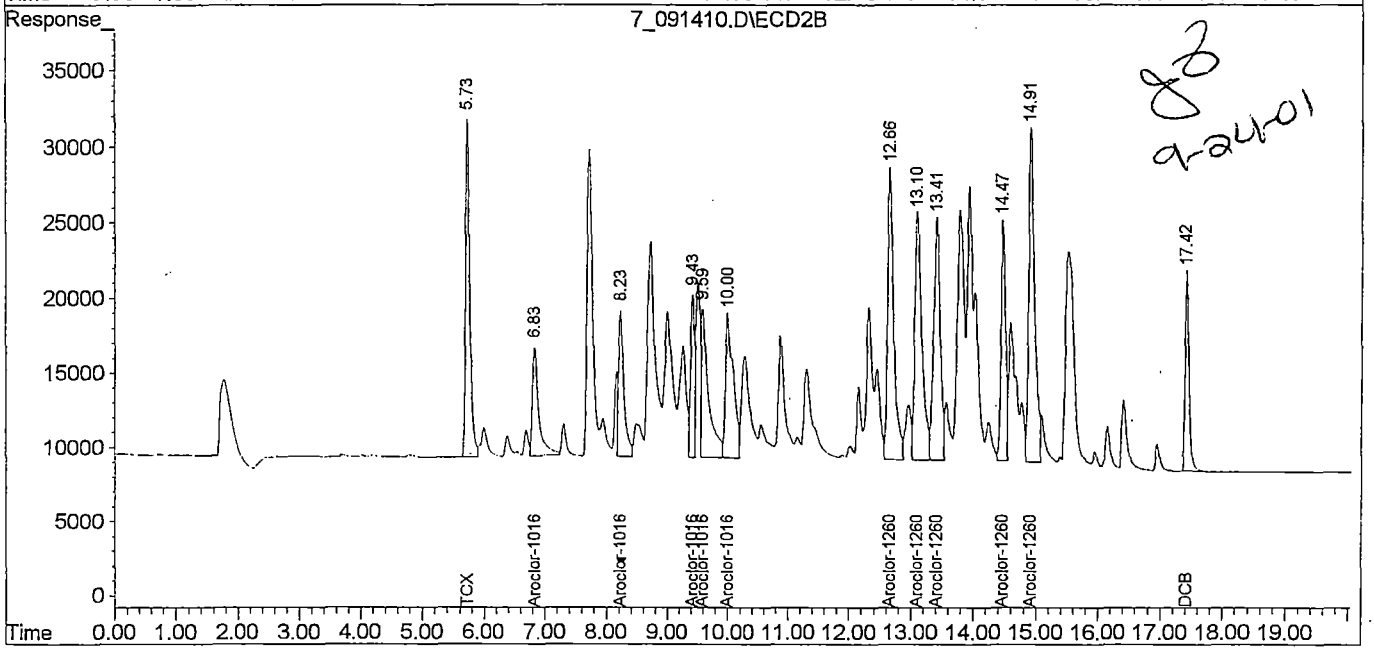
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091410.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091410.D\ECD2B.CH
Acq On : 14 Sep 2001 11:02 Operator: SA
Sample : AR1660L379 Inst : HP_07
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 11:33 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_14_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





8-3
9-24-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091410.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091410.D\ECD2B.CH
Acq On : 14 Sep 2001 11:02 Operator: SA
Sample : AR1660L379 Inst : HP_07
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 11:33 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_14_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

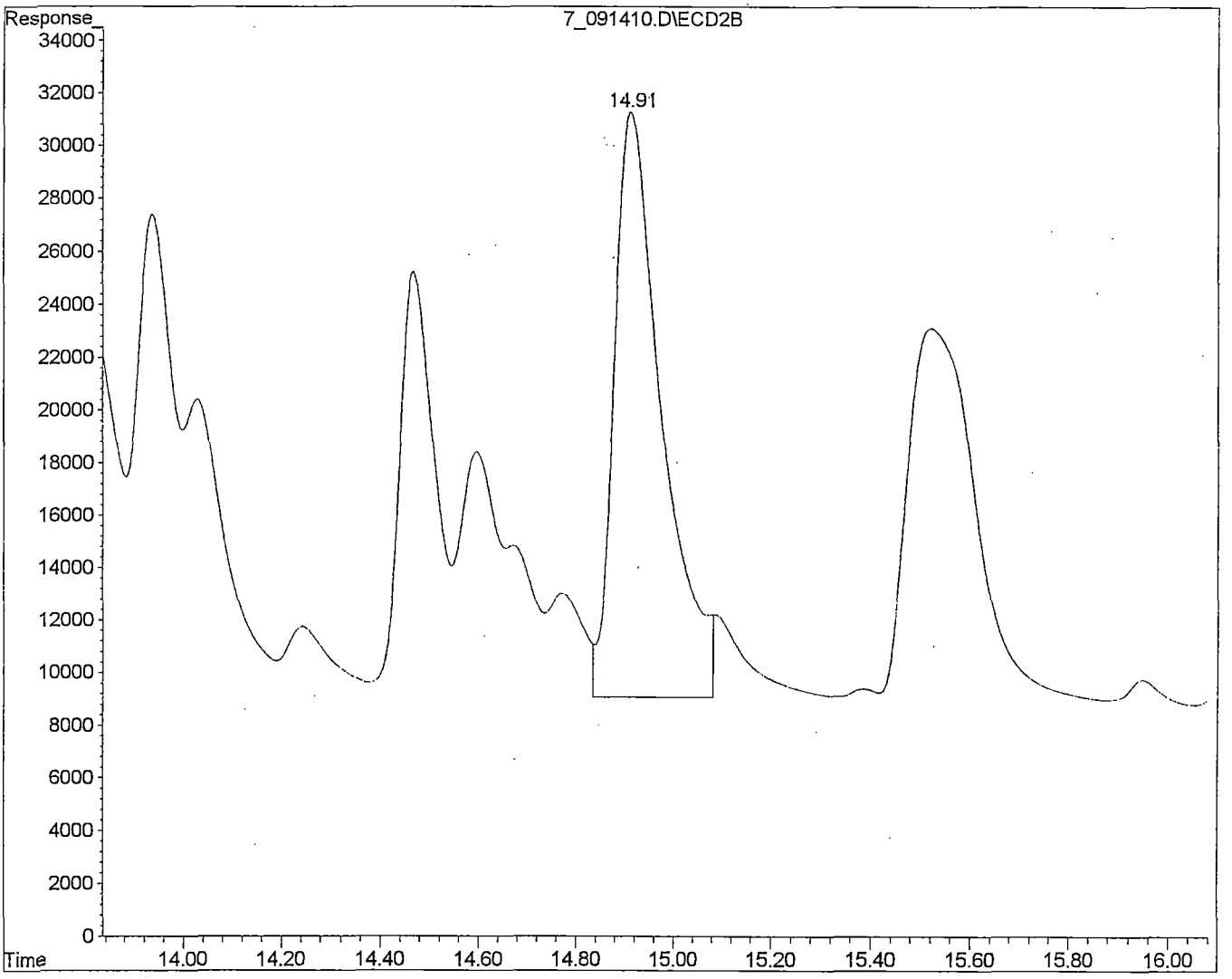
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	878594	1109997	21.6	21.4
22)	S DCB	16.90	17.42	480430	583528	22.7	24.2
	Target Compounds:						
2)	L1 Aroclor-1016	6.66	6.83	418422	540314	433.8	463.2
3)	L1 Aroclor-1016 {2}	7.89	8.23	561601	607151	427.5	431.7
4)	L1 Aroclor-1016 {3}	8.48	9.43	1144718	494615	420.4	423.7
5)	L1 Aroclor-1016 {4}	8.90	9.59	370009	855463	421.4	410.8
6)	L1 Aroclor-1016 {5}	9.29	10.00	467014	858011	413.5	407.8
	Sum Aroclor-1016			2961764	3355554	2116.6	2137.2
	Average Aroclor-1016					423.328	427.448
17)	L7 Aroclor-1260	12.24	12.66	899218	1325390	390.9	392.4
18)	L7 Aroclor-1260 {2}	12.84	13.10	1497322	1321527	394.2	412.8
19)	L7 Aroclor-1260 {3}	13.42	13.41	1177565	1170341	401.3	404.4
20)	L7 Aroclor-1260 {4}	14.07	14.47	533873	794654	407.6	437.4
21)	L7 Aroclor-1260 {5}	14.63	14.91	1305987	1510446	425.9	477.0m
	Sum Aroclor-1260			5413964	6122358	2019.8	2124.0
	Average Aroclor-1260					403.964	424.792

A9-24-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_14_01\7_091410.D
Date Acquired: 14 Sep 2001 11:02
Inst: HP_07 Operator ID: SA
Name: AR1660L379
Misc: 5-128-7
Method: F:\HPCHEM\HP\7\DATA\09_14_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 11:33 2001 Quant Results File: XPCBI12.RES



09.24.01

Aroclor-1260 {5} #2 14.91min area: 1510446 m

Integration Time Range: 14.83 - 15.08

F:\HPCHEM\HP\7\DATA\09_14_01\7_091410.D
Report generated: Mon Sep 24 10:26:36 2001

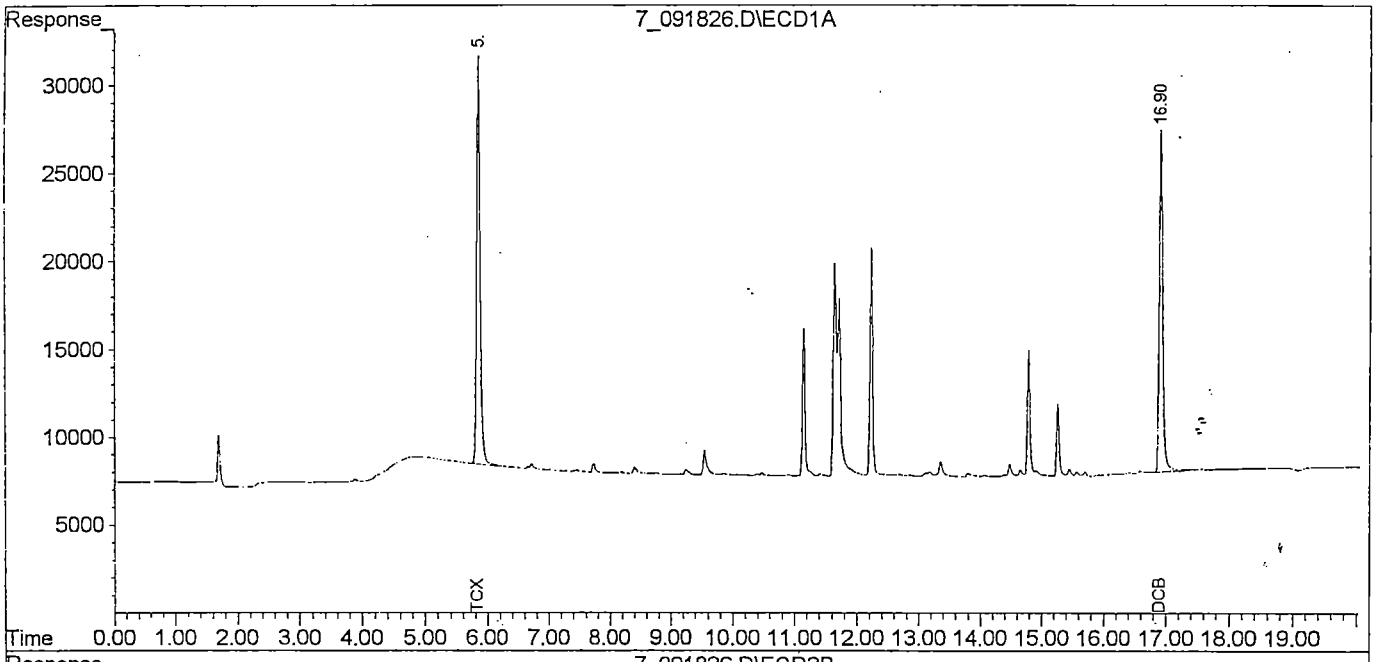
Chromatographic Report

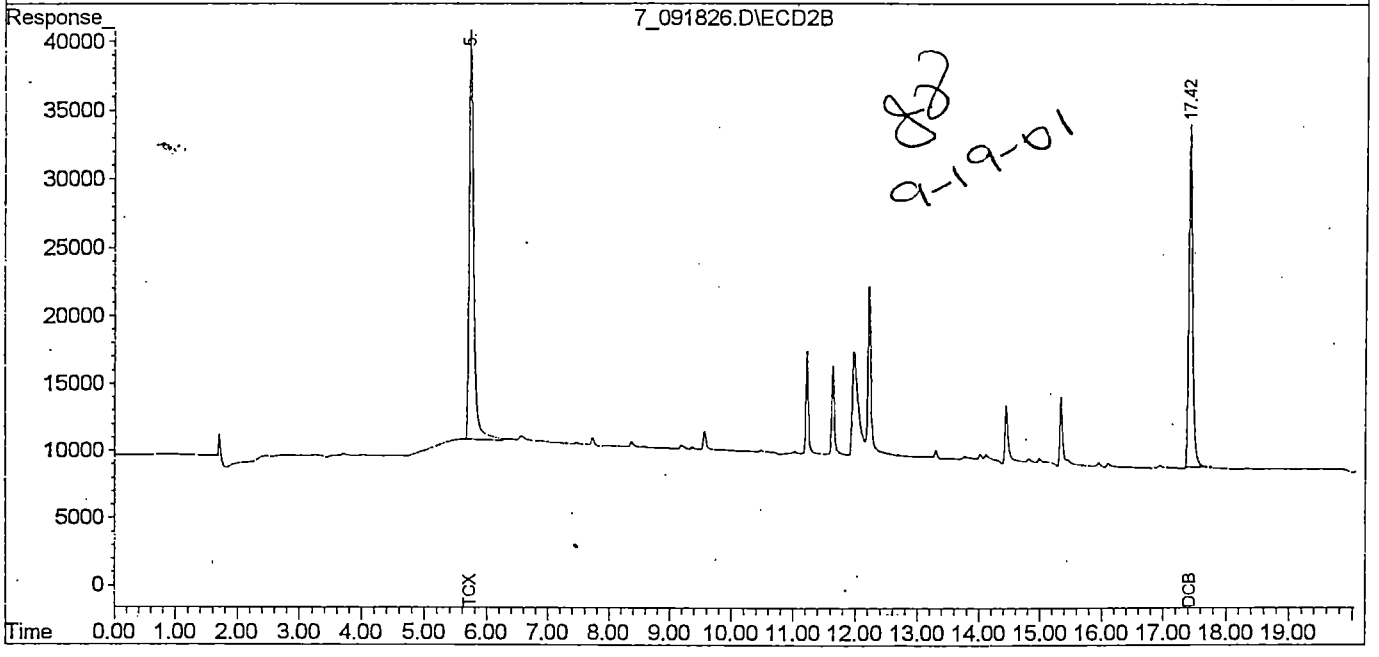
Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091826.D\ECD1A.CH Vial: 1
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091826.D\ECD2B.CH
Acq On : 18 Sep 2001 17:42 Operator: SA
Sample : RESC7I Inst : HP_07
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 7:13 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29602 SDG E02M5
Signature Arnelda M. Williams
Date 09/22/01

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





8
9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091826.D\ECD1A.CH Vial: 1
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091826.D\ECD2B.CH
Acq On : 18 Sep 2001 17:42 Operator: SA
Sample : RESC7I Inst : HP_07
Misc : 5-171-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 7:13 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	926304	1486143	22.5	26.3
22)	S DCB	16.90	17.42	744176	1044210	30.8	37.5
	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

Response Factor Report HP_07

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Calibration Files
L1 =7_091827.D L2 =7_091828.D L3 =7_091829.D
L4 =7_091830.D L5 =7_091831.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
1) TCX	42.3	41.8	44.1	45.8	43.0	43.4 E3	3.63
2) Aroclor-1016	1.2	1.1	1.1	1.0	0.9	1.1 E3	10.70
3) Aroclor-1016 {2}	1.7	1.6	1.6	1.5	1.2	1.5 E3	12.41
4) Aroclor-1016 {3}	3.7	3.7	4.0	4.0	3.6	3.8 E3	4.59
5) Aroclor-1016 {4}	1.1	1.1	1.1	1.0	0.9	1.0 E3	7.05
6) Aroclor-1016 {5}	1.6	1.4	1.2	1.2	1.0	1.3 E3	17.91
17) Aroclor-1260	2.9	2.8	2.7	2.5	2.2	2.6 E3	10.39
18) Aroclor-1260 {2}	4.6	4.6	4.6	4.3	3.8	4.4 E3	7.87
19) Aroclor-1260 {3}	3.4	3.5	3.8	3.6	3.3	3.5 E3	5.30
20) Aroclor-1260 {4}	1.7	1.7	1.7	1.6	1.5	1.6 E3	6.39
21) Aroclor-1260 {5}	3.5	3.7	3.8	3.8	3.5	3.7 E3	3.82
22) DCB	21.5	23.2	23.0	22.2	20.6	22.1 E3	4.92

Signal #2 Calibration Files
L1 =7_091827.D L2 =7_091828.D L3 =7_091829.D
L4 =7_091830.D L5 =7_091831.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
24) TCX #2	51.8	53.9	58.8	67.1	68.9	60.1 E3	12.76
25) Aroclor-1016 #2	1.5	1.6	1.4	1.4	1.3	1.4 E3	7.89
26) Aroclor-1016 {2} #2	2.3	2.2	2.2	2.1	1.9	2.1 E3	6.34
27) Aroclor-1016 {3} #2	1.5	1.5	1.5	1.4	1.3	1.4 E3	7.02
28) Aroclor-1016 {4} #2	3.0	2.7	2.3	2.2	1.9	2.4 E3	17.60
29) Aroclor-1016 {5} #2	2.7	2.6	2.7	2.6	2.5	2.6 E3	3.80
40) Aroclor-1260 #2	4.4	4.4	4.4	4.1	3.8	4.2 E3	6.10
41) Aroclor-1260 {2} #2	4.2	4.2	4.4	4.3	4.0	4.2 E3	3.73
42) Aroclor-1260 {3} #2	3.8	3.7	3.9	3.8	3.6	3.8 E3	2.81
43) Aroclor-1260 {4} #2	2.4	2.5	2.7	2.6	2.5	2.5 E3	4.22
44) Aroclor-1260 {5} #2	3.9	4.2	4.7	4.7	4.7	4.4 E3	9.05
45) DCB #2	29.0	30.7	29.9	28.9	27.5	29.2 E3	4.11

(#) = Out of Range

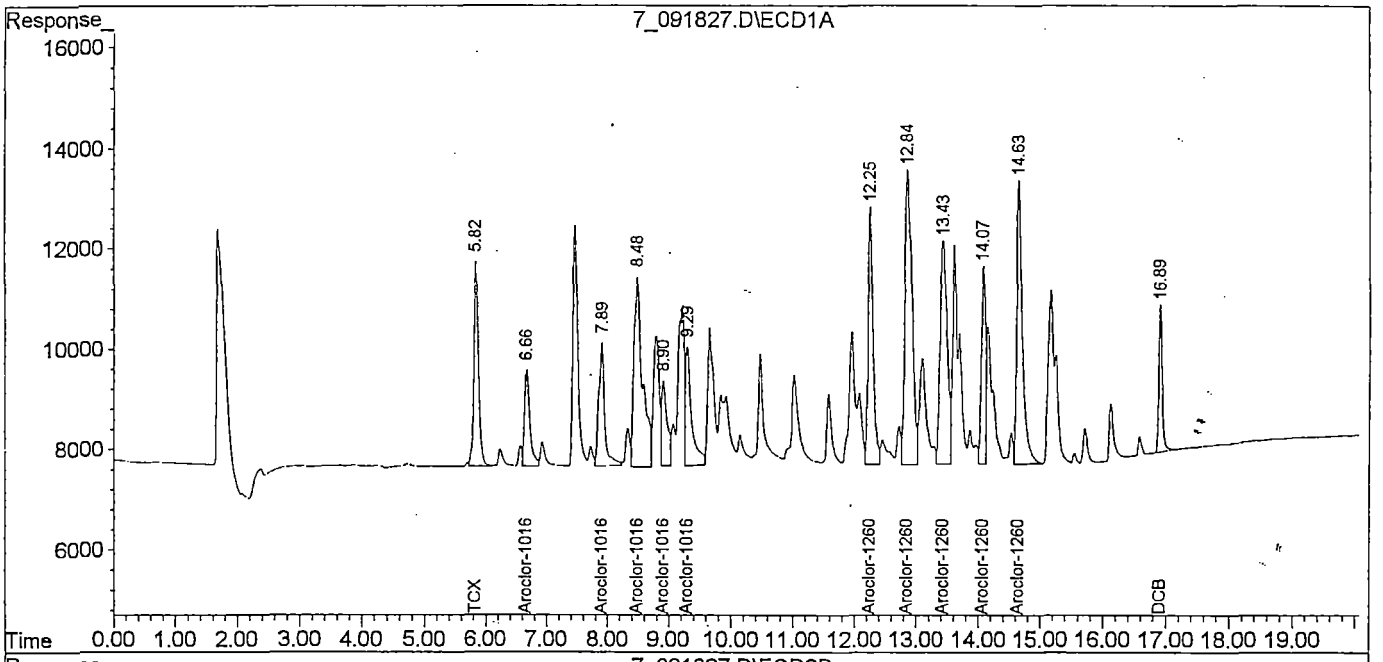
XPCBI18.M Wed Sep 19 08:12:04 2001

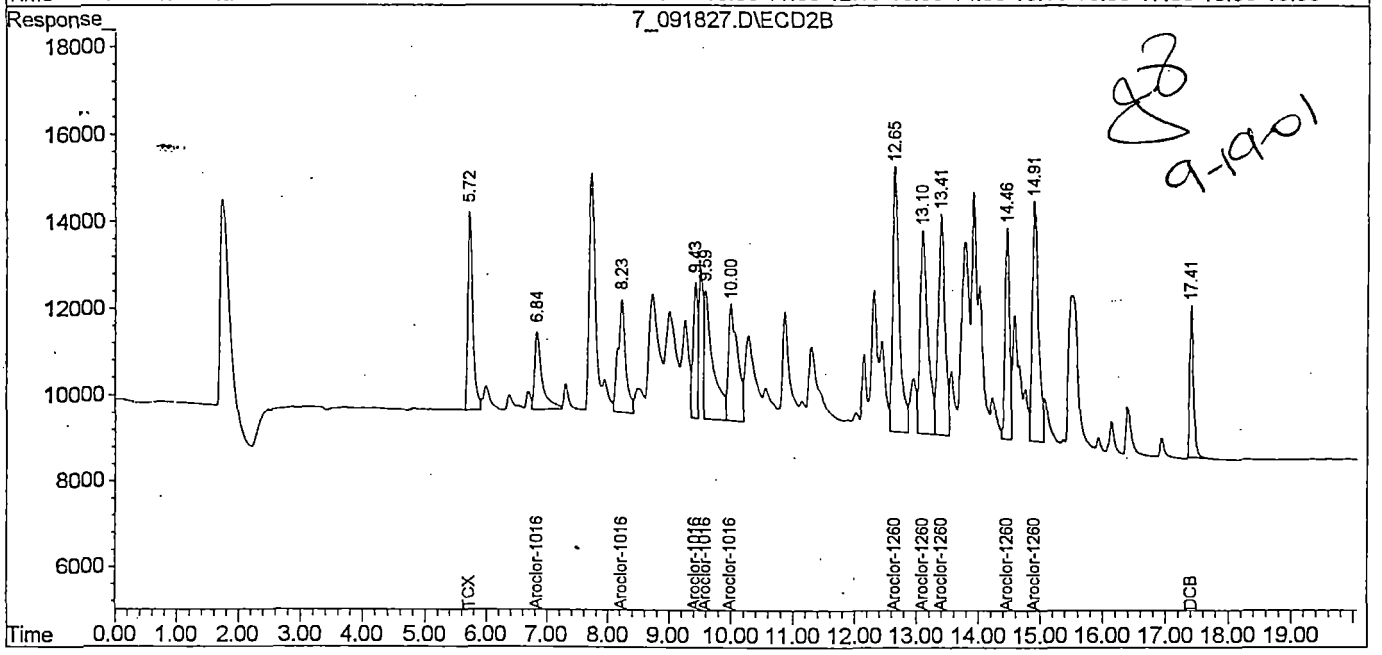
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091827.D\ECD1A.CH Vial: 2
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091827.D\ECD2B.CH
Acq On : 18 Sep 2001 18:07 Operator: SA
Sample : AR1660L17H Inst : HP_07
Misc : 5-212-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 7:22 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091827.D\ECD1A.CH Vial: 2
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091827.D\ECD2B.CH
Acq On : 18 Sep 2001 18:07 Operator: SA
Sample : AR1660L17H Inst : HP_07
Misc : 5-212-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 7:22 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

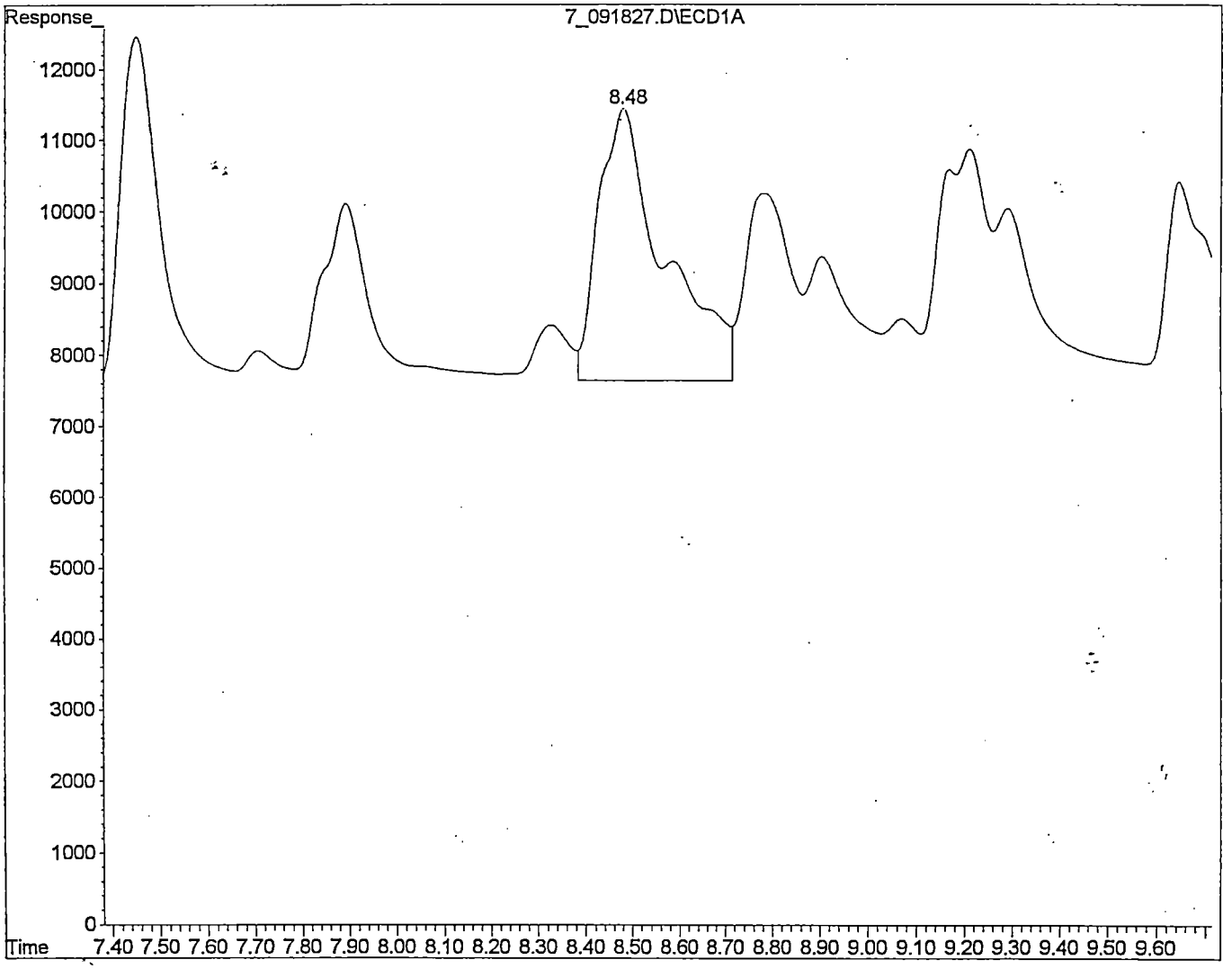
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.72	211686	259223	5.133	4.582	
22)	S DCB	16.90	17.41	107547	145119	4.456	5.208	
	Target Compounds:							
2)	L1 Aroclor-1016	6.66	6.84	116276	149488	117.1	124.0	
3)	L1 Aroclor-1016 {2}	7.89	8.23	169551	226205	119.5	150.6	#
4)	L1 Aroclor-1016 {3}	8.48	9.43	371844	152033	129.8m	123.4	
5)	L1 Aroclor-1016 {4}	8.90	9.59	109519	302248	116.9	137.8	
6)	L1 Aroclor-1016 {5}	9.29	10.00	160056	269706	134.1	120.5	
	Sum Aroclor-1016			927246	1099680	617.5	656.3	
	Average Aroclor-1016					123.497	131.254	
17)	L7 Aroclor-1260	12.25	12.66	289684	443859	119.7	123.6	
18)	L7 Aroclor-1260 {2}	12.84	13.10	462835	415369	113.9	122.5	
19)	L7 Aroclor-1260 {3}	13.43	13.41	336367	376575	103.6	121.3	
20)	L7 Aroclor-1260 {4}	14.07	14.46	165100	241688	108.8	117.0	
21)	L7 Aroclor-1260 {5}	14.63	14.91	352914	386477	98.1	109.3	
	Sum Aroclor-1260			1606901	1863967	544.1	593.8	
	Average Aroclor-1260					108.814	118.758	

09.18.01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091827.D
Date Acquired: 18 Sep 2001 18:07
Inst: HP_07 Operator ID: SA
Name: AR1660L17H
Misc: 5-212-7
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 7:22 2001 Quant Results File: XPCBI18.RES



00 9/19/01

Aroclor-1016 {3} 8.48min area: 371844 m

Integration Time Range: 8.38 - 8.71

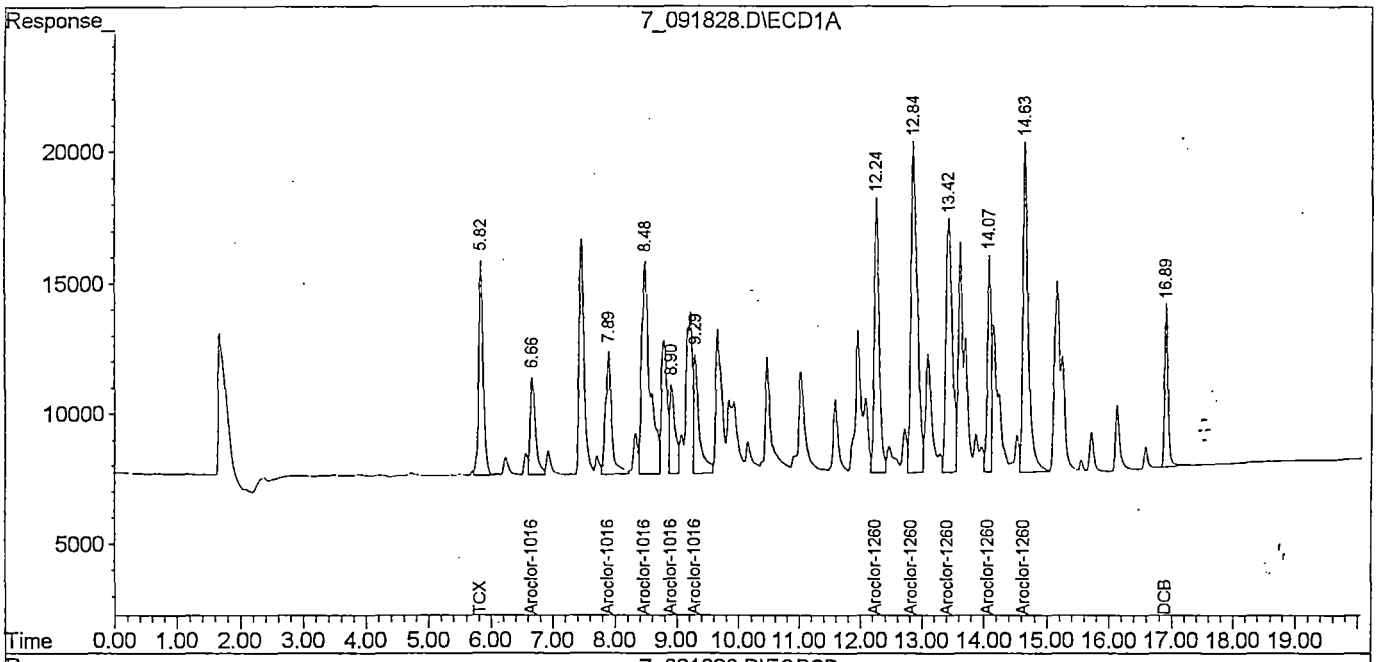
F:\HPCHEM\HP\7\DATA\09_19_01\7_091827.D
Report generated: Wed Sep 19 08:55:52 2001

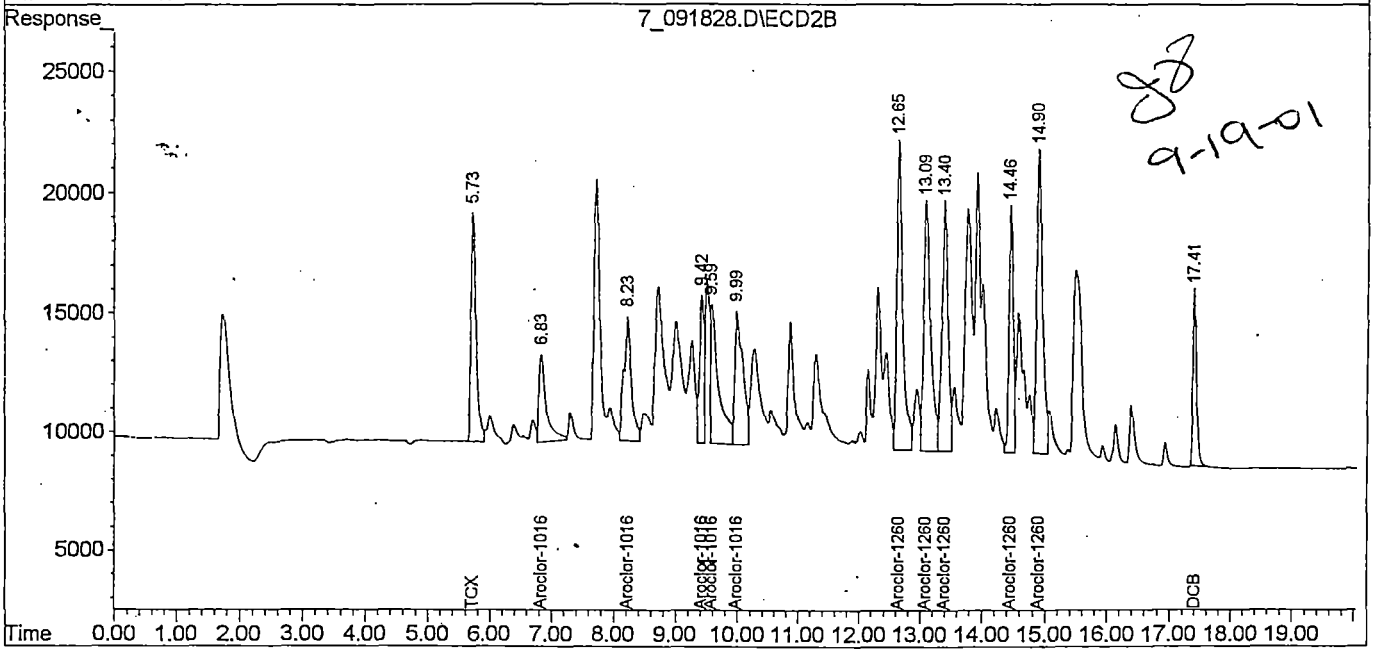
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091828.D\ECD1A.CH Vial: 3
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091828.D\ECD2B.CH
Acq On : 18 Sep 2001 18:31 Operator: SA
Sample : AR1660L27H Inst : HP_07
Misc : 5-211-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 7:23 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





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9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091828.D\ECD1A.CH Vial: 3
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091828.D\ECD2B.CH
Acq On : 18 Sep 2001 18:31 Operator: SA
Sample : AR1660L27H Inst : HP_07
Misc : 5-211-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 7:23 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

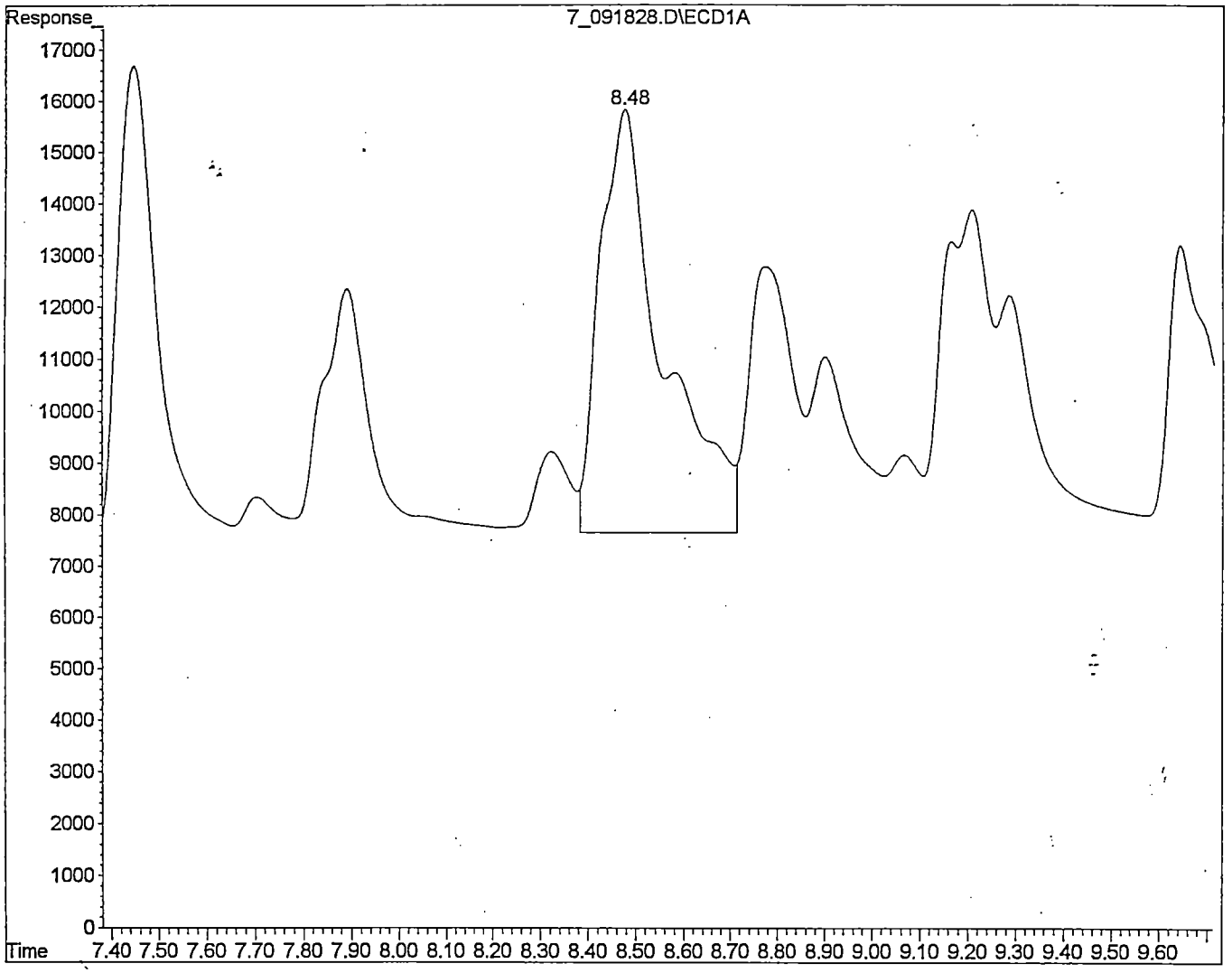
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.73	418306	538640	10.1	9.520	
22)	S DCB	16.89	17.41	231911	307065	9.609	11.0	
	Target Compounds:							
2)	L1 Aroclor-1016	6.66	6.84	224243	310535	225.9	257.5	
3)	L1 Aroclor-1016 {2}	7.89	8.23	328712	439598	231.8	292.7	#
4)	L1 Aroclor-1016 {3}	8.48	9.42	748631	290126	261.3m	235.5	
5)	L1 Aroclor-1016 {4}	8.90	9.59	214020	541593	228.5	247.0	
6)	L1 Aroclor-1016 {5}	9.29	9.99	287046	523483	240.5	233.8	
	Sum Aroclor-1016			1802652	2105335	1187.9	1266.5	
	Average Aroclor-1016					237.588	253.295	
17)	L7 Aroclor-1260	12.24	12.65	566421	871006	234.0	242.6	
18)	L7 Aroclor-1260 {2}	12.84	13.09	926439	837413	228.1	247.0	
19)	L7 Aroclor-1260 {3}	13.42	13.41	703357	744242	216.6	239.8	
20)	L7 Aroclor-1260 {4}	14.07	14.46	338076	498169	222.8	241.1	
21)	L7 Aroclor-1260 {5}	14.63	14.90	740251	830035	205.7	234.8	
	Sum Aroclor-1260			3274545	3780865	1107.2	1205.3	
	Average Aroclor-1260					221.433	241.066	

A9.17.9

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091828.D
Date Acquired: 18 Sep 2001 18:31
Inst: HP_07 Operator ID: SA
Name: AR1660L27H
Misc: 5-211-7
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 7:23 2001 Quant Results File: XPCBI18.RES



09-19-01

Aroclor-1016 {3} 8.48min area: 748631 m

Integration Time Range: 8.38 - 8.71

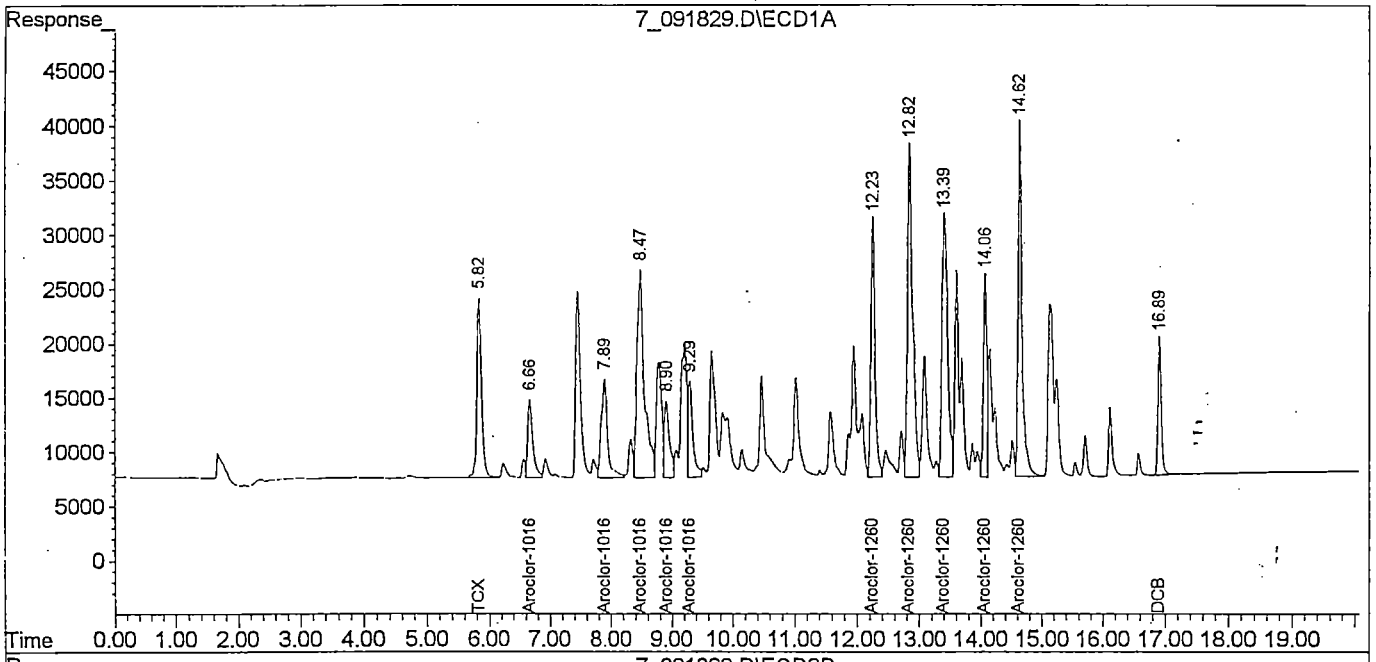
F:\HPCHEM\HP\7\DATA\09_19_01\7_091828.D
Report generated: Wed Sep 19 08:55:54 2001

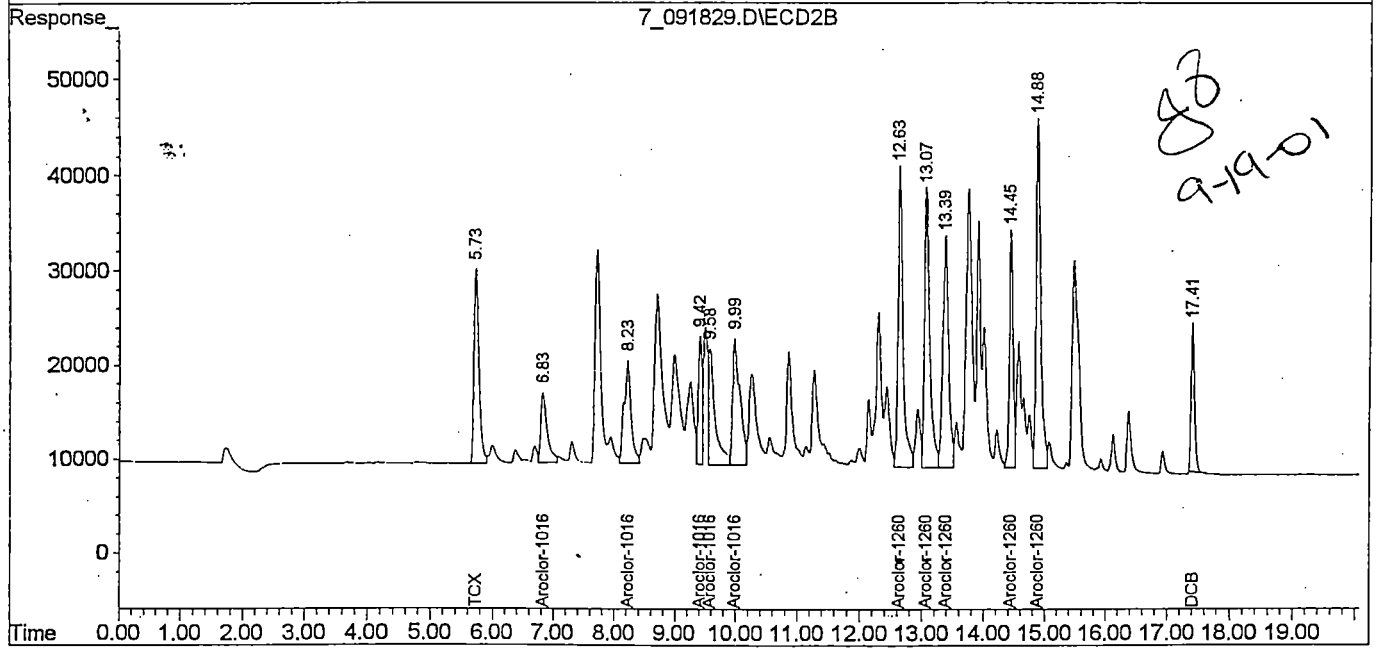
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091829.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091829.D\ECD2B.CH
Acq On : 18 Sep 2001 18:55 Operator: SA
Sample : AR1660L37L Inst : HP_07
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 7:20 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





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9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091829.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091829.D\ECD2B.CH
Acq On : 18 Sep 2001 18:55 Operator: SA
Sample : AR1660L37L Inst : HP_07
Misc : 5-210-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 7:20 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.73	882853	1175243	21.4	20.8	
22)	S DCB	16.89	17.41	460008	598182	19.1	21.5	
	Target Compounds:							
2)	L1 Aroclor-1016	6.66	6.84	437307	551371	440.5	457.2	
3)	L1 Aroclor-1016 {2}	7.89	8.23	656573	886162	462.9	590.0	#
4)	L1 Aroclor-1016 {3}	8.47	9.42	1619737	613245	565.3	497.9	
5)	L1 Aroclor-1016 {4}	8.90	9.58	420008	930563	448.5	424.3	
6)	L1 Aroclor-1016 {5}	9.28	9.99	485980	1083101	407.2	483.7	
	Sum Aroclor-1016			3619606	4064442	2324.4	2453.1	
	Average Aroclor-1016					464.872	490.624	
17)	L7 Aroclor-1260	12.23	12.64	1097983	1759745	453.6	490.2	
18)	L7 Aroclor-1260 {2}	12.82	13.07	1848633	1773297	455.1	523.0	
19)	L7 Aroclor-1260 {3}	13.39	13.39	1516085	1567421	466.9	505.0	
20)	L7 Aroclor-1260 {4}	14.06	14.45	688923	1077526	454.0	521.5	
21)	L7 Aroclor-1260 {5}	14.62	14.88	1529236	1883382	424.9	532.9	#
	Sum Aroclor-1260			6680859	8061371	2254.5	2572.5	
	Average Aroclor-1260					450.905	514.510	

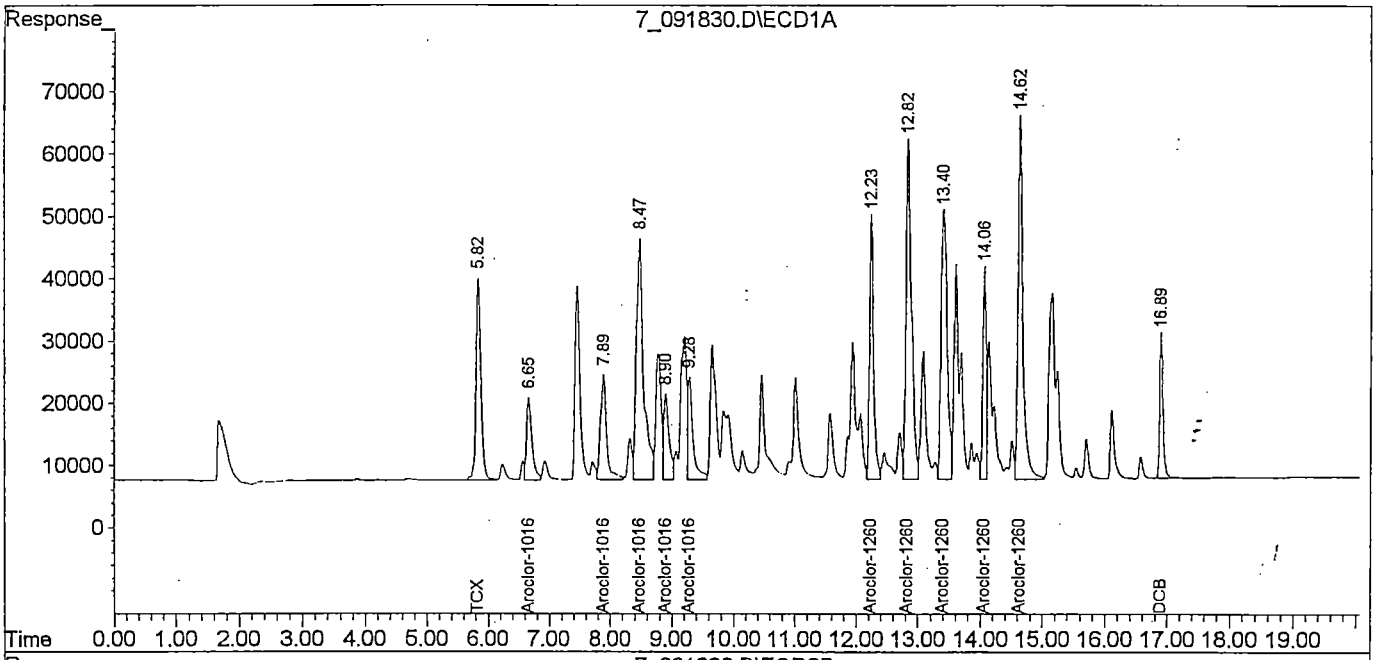
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

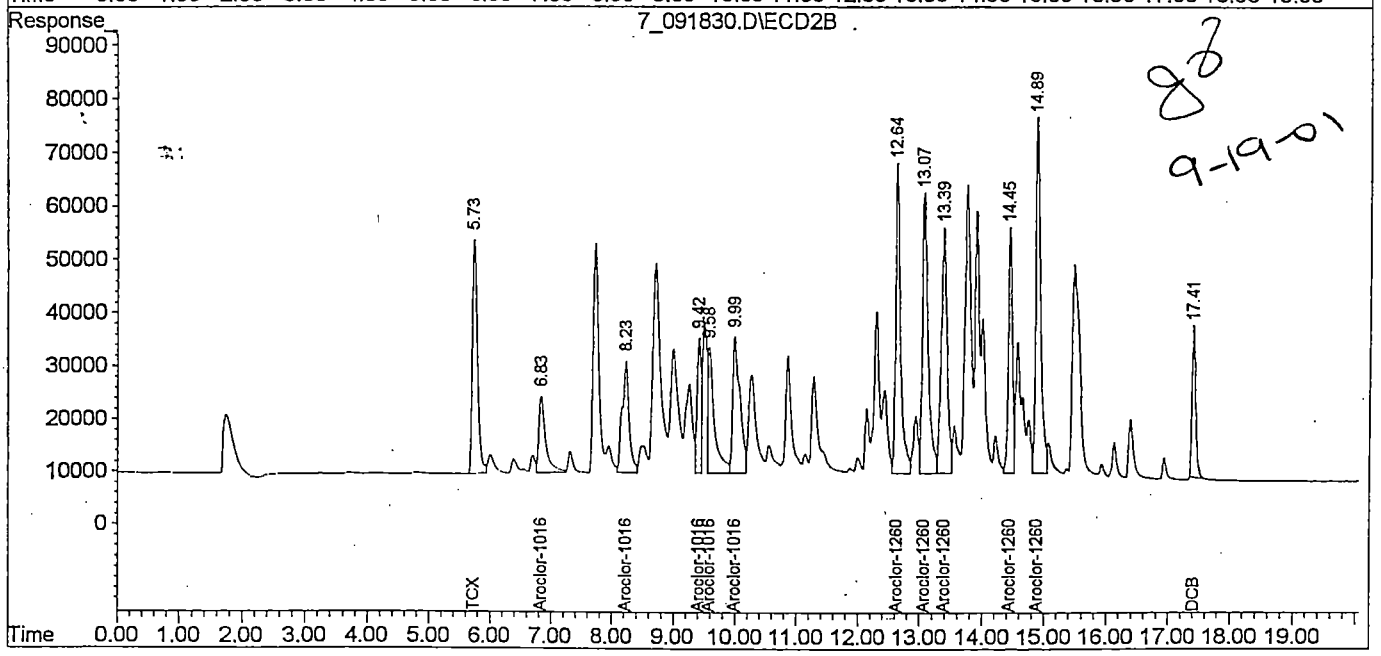
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091830.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091830.D\ECD2B.CH
Acq On : 18 Sep 2001 19:19 Operator: SA
Sample : AR1660L47H Inst : HP_07
Misc : 5-209-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 7:23 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





gb
9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091830.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091830.D\ECD2B.CH
Acq On : 18 Sep 2001 19:19 Operator: SA
Sample : AR1660L47H Inst : HP_07
Misc : 5-209-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 7:23 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.73	1830577	2684332	44.4	47.4	
22)	S DCB	16.89	17.41	889385	1154386	36.9	41.4	
	Target Compounds:							
2)	L1 Aroclor-1016	6.66	6.84	823538	1140714	829.6	945.9	
3)	L1 Aroclor-1016 {2}	7.89	8.23	1214013	1711090	856.0	1139.2	#
4)	L1 Aroclor-1016 {3}	8.47	9.42	3165506	1130640	1104.7	917.9	
5)	L1 Aroclor-1016 {4}	8.90	9.58	818379	1794984	873.8	818.5	
6)	L1 Aroclor-1016 {5}	9.28	9.99	956912	2106121	801.7	940.6	
	Sum Aroclor-1016			6978349	7883549	4465.8	4762.2	
	Average Aroclor-1016					893.170	952.430	
17)	L7 Aroclor-1260	12.24	12.64	2026728	3316783	837.4	924.0	
18)	L7 Aroclor-1260 {2}	12.82	13.08	3444978	3403426	848.0	1003.7	
19)	L7 Aroclor-1260 {3}	13.40	13.40	2874016	3032257	885.1	976.9	
20)	L7 Aroclor-1260 {4}	14.06	14.45	1285222	2065044	847.0	999.4	
21)	L7 Aroclor-1260 {5}	14.62	14.89	3017368	3772008	838.4	1067.2	#
	Sum Aroclor-1260			12648312	15589518	4255.9	4971.3	
	Average Aroclor-1260					851.172	994.256	

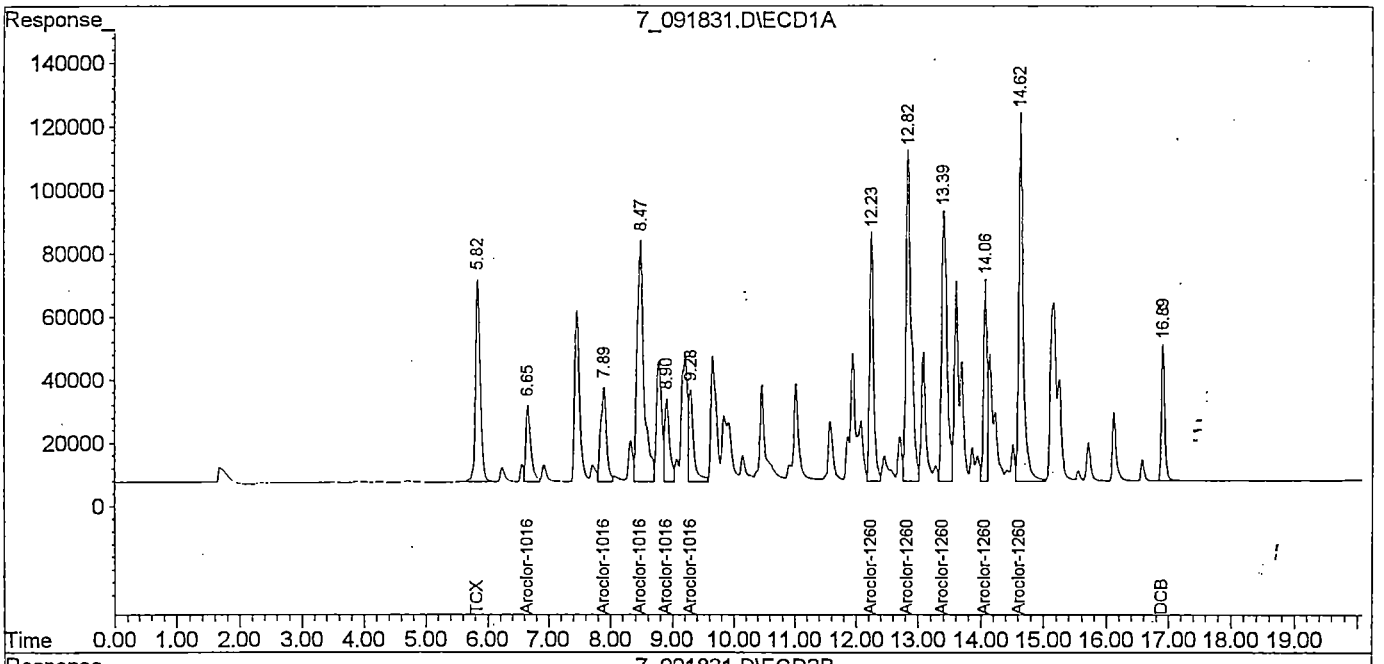
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

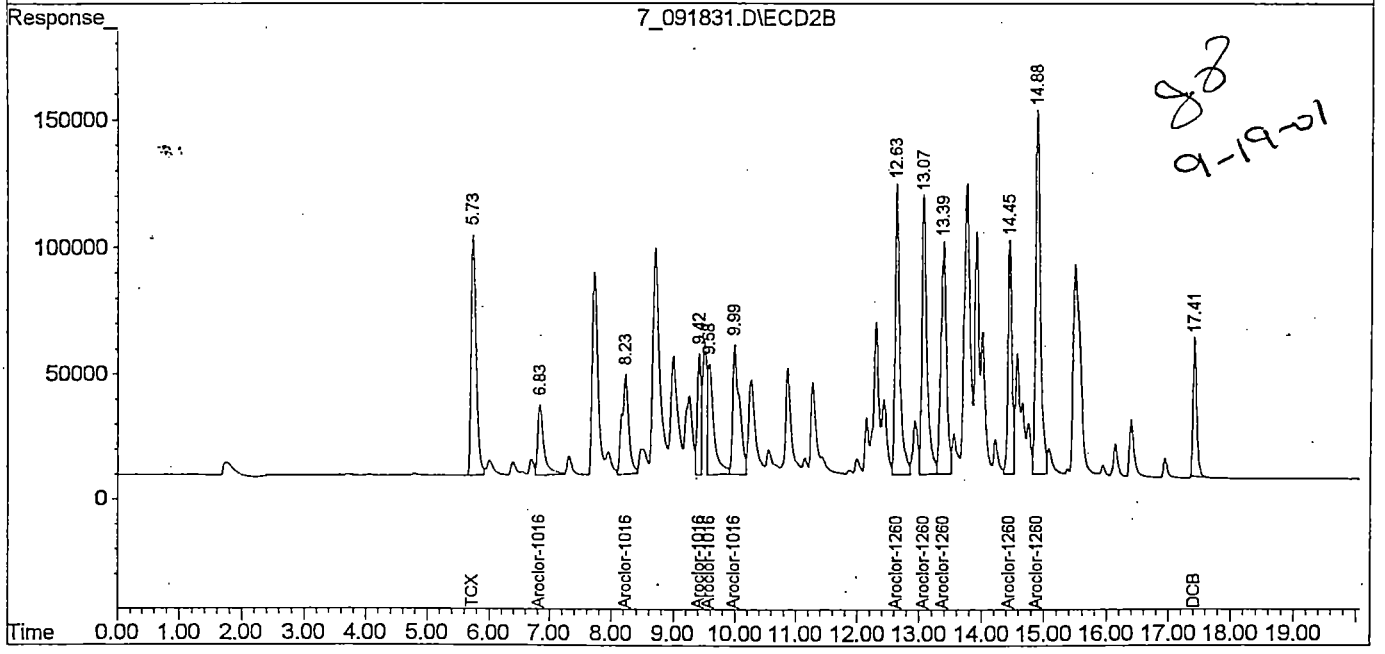
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091831.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091831.D\ECD2B.CH
Acq On : 18 Sep 2001 19:43 Operator: SA
Sample : AR1660L57H Inst : HP_07
Misc : 5-208-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 7:25 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





88
9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091831.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091831.D\ECD2B.CH
Acq On : 18 Sep 2001 19:43 Operator: SA
Sample : AR1660L57H Inst : HP_07
Misc : 5-208-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 7:25 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

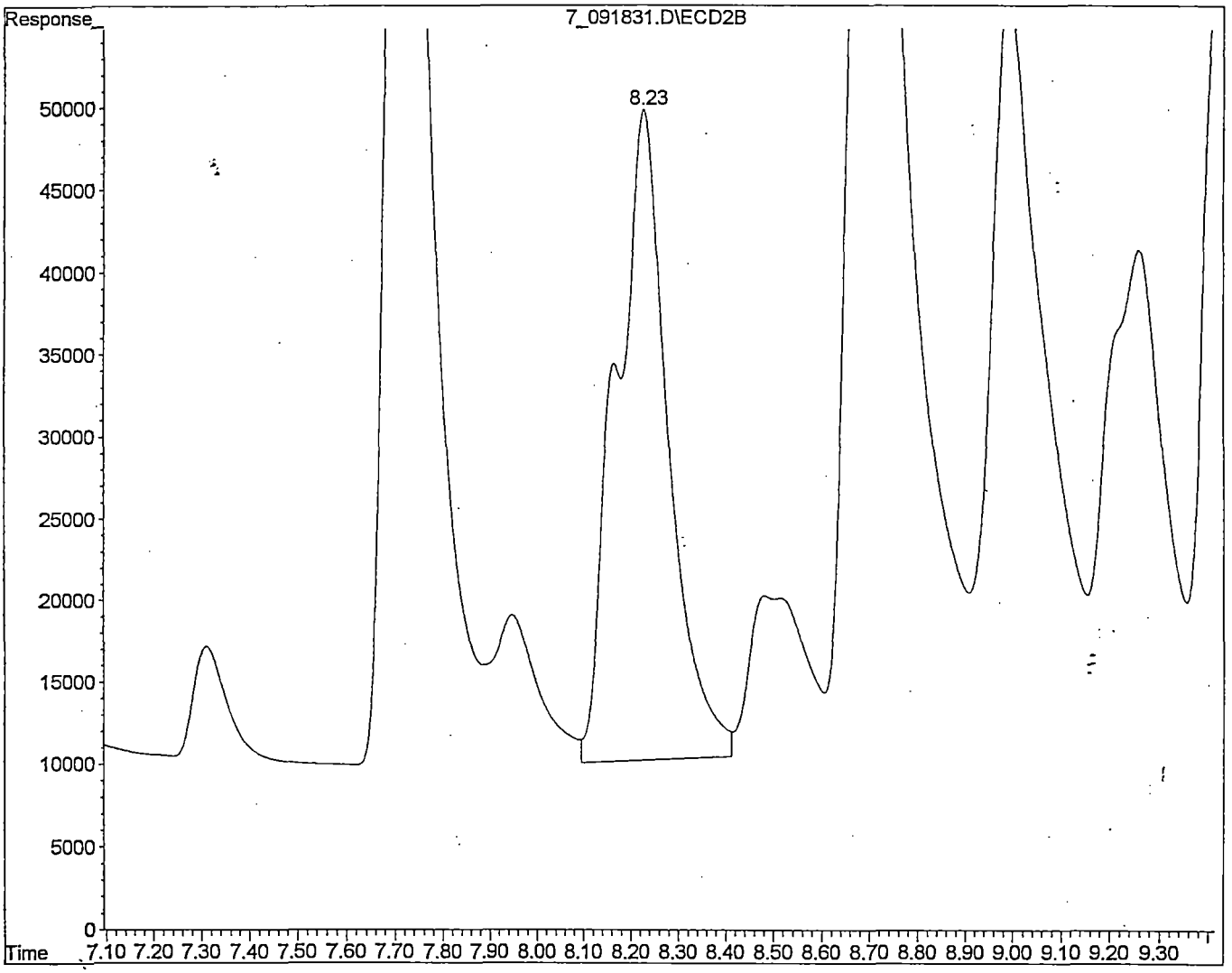
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	3437428	5510959	83.4	97.4
22)	S DCB	16.89	17.41	1645099	2200909	68.2	79.0
	Target Compounds:						
2)	L1 Aroclor-1016	6.65	6.83	1397382	2016766	1407.7 E	1672.4
3)	L1 Aroclor-1016 {2}	7.89	8.23	1954664	3065195	1378.2 E	2040.8m #
4)	L1 Aroclor-1016 {3}	8.47	9.42	5810520	2051446	2027.8	1665.5
5)	L1 Aroclor-1016 {4}	8.90	9.58	1453720	3061683	1552.2 E	1396.1 E
6)	L1 Aroclor-1016 {5}	9.28	9.99	1606779	3934572	1346.2	1757.2 E#
	Sum Aroclor-1016			12223065	14129662	7712.1	8531.9
	Average Aroclor-1016					1542.415	1706.381
17)	L7 Aroclor-1260	12.23	12.63	3551185	6105454	1467.2	1700.8 E
18)	L7 Aroclor-1260 {2}	12.82	13.07	6138995	6404581	1511.2	1888.8 E
19)	L7 Aroclor-1260 {3}	13.39	13.39	5327213	5805212	1640.5 E	1870.4 E
20)	L7 Aroclor-1260 {4}	14.06	14.45	2330509	3976365	1535.9	1924.4 #
21)	L7 Aroclor-1260 {5}	14.62	14.88	5624186	7561844	1562.8	2139.5 E#
	Sum Aroclor-1260			22972088	29853456	7717.5	9523.9
	Average Aroclor-1260					1543.509	1904.781

9-14-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091831.D
Date Acquired: 18 Sep 2001 19:43
Inst: HP_07 Operator ID: SA
Name: AR1660L57H
Misc: 5-208-7
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 7:25 2001 Quant Results File: XPCBI18.RES



CS 9-19-01

Aroclor-1016 {2} #2 8.23min area: 3065195 m

Integration Time Range: 8.10 - 8.41

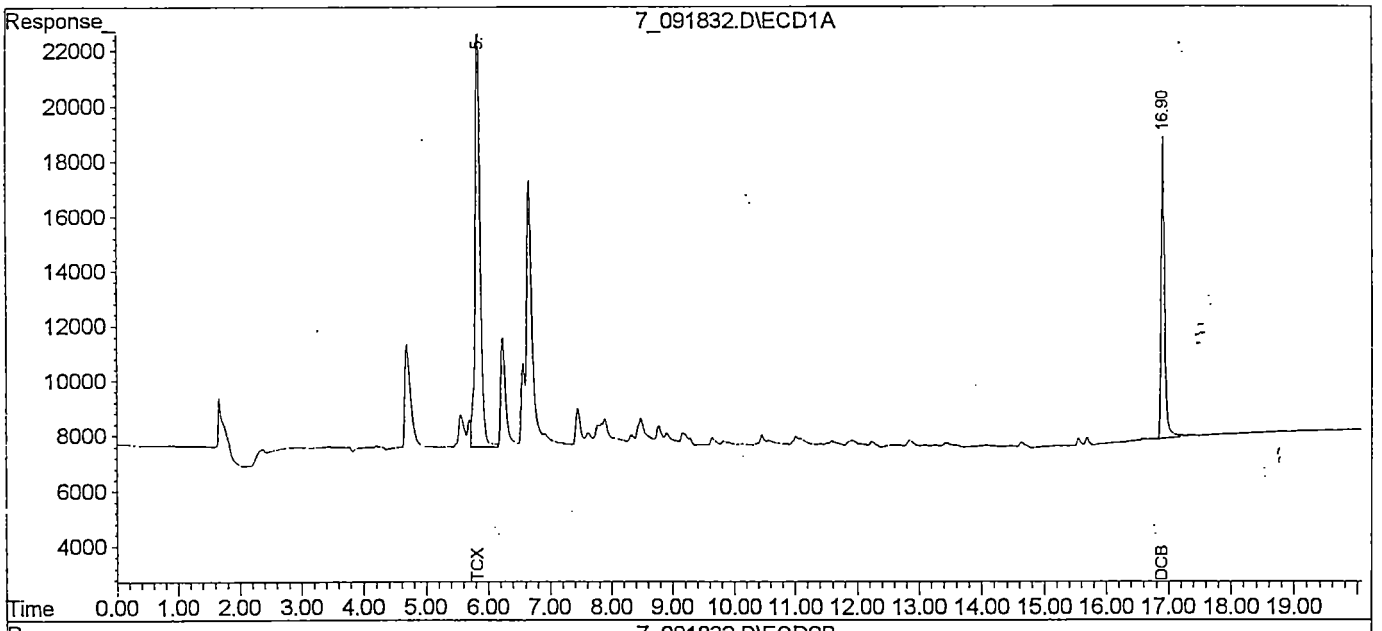
F:\HPCHEM\HP\7\DATA\09_19_01\7_091831.D
Report generated: Wed Sep 19 08:55:59 2001

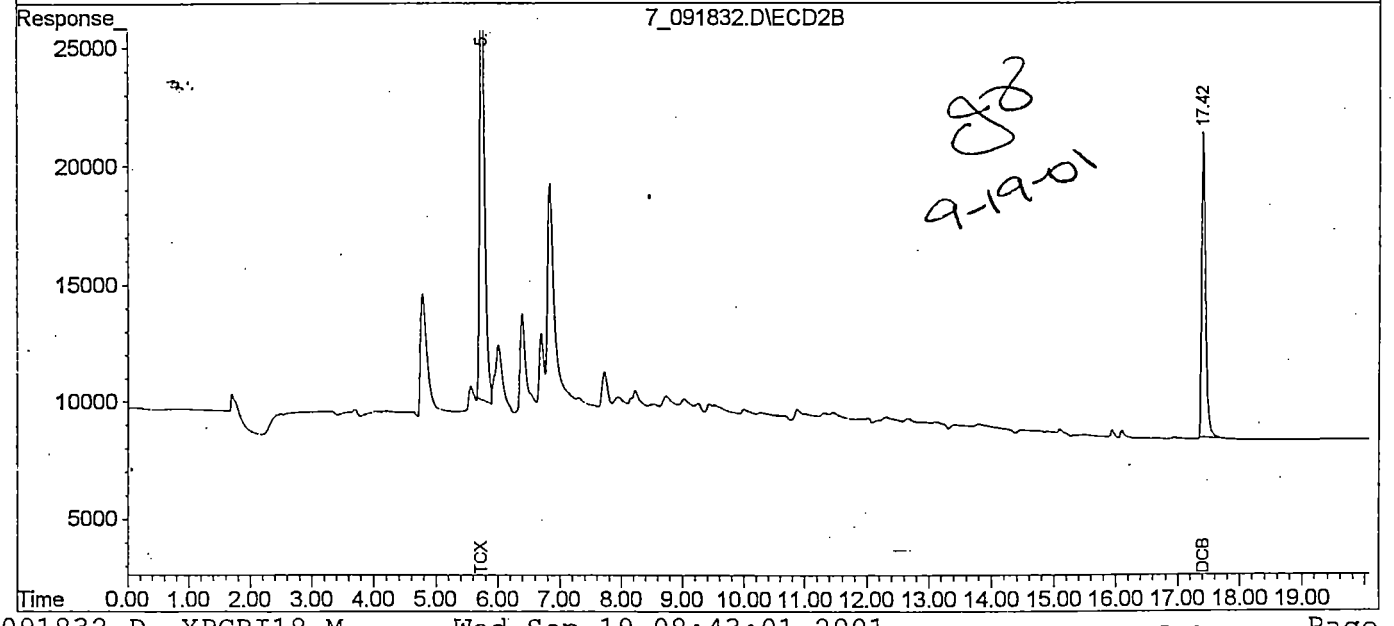
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091832.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091832.D\ECD2B.CH
Acq On : 18 Sep 2001 20:07 Operator: SA
Sample : AR1221L37H Inst : HP_07
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:33 2001 Quant Results File: XPCBI18.RES
Quant Time: Sep 19 8:34 2001 Quant Results File: xspcbi18.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Tue Aug 21 10:09:28 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_19_01\xspcbi18.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





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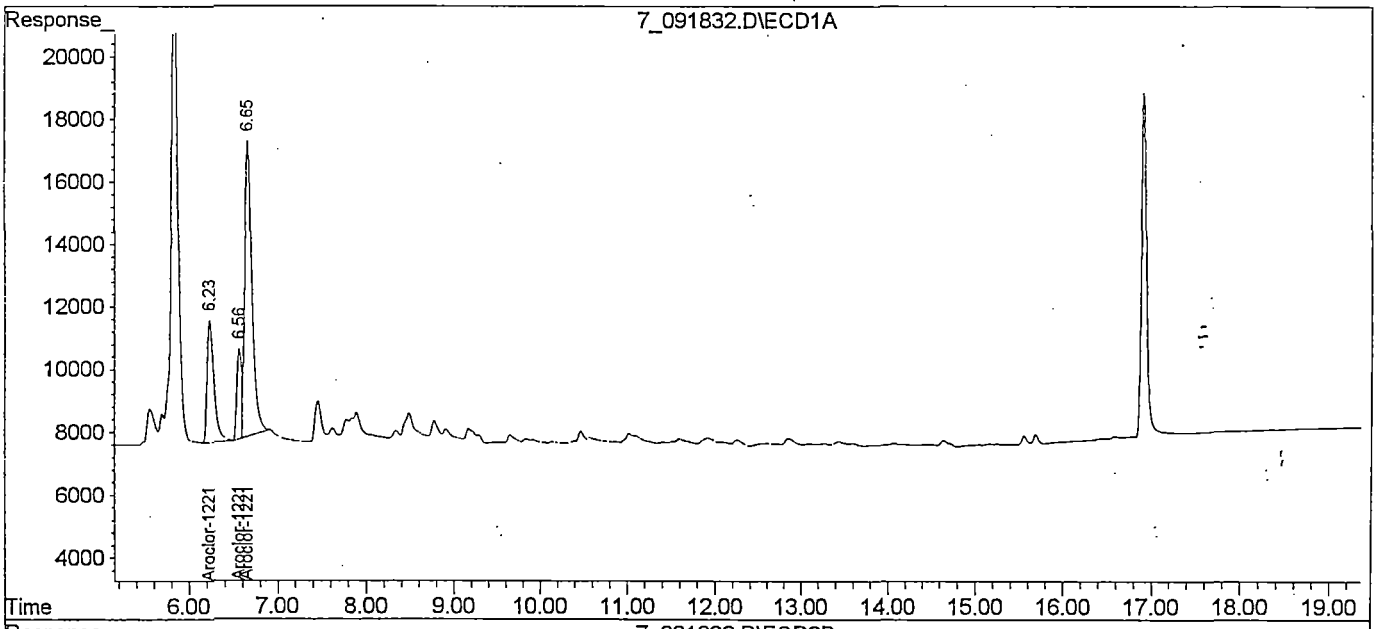
9-19-01

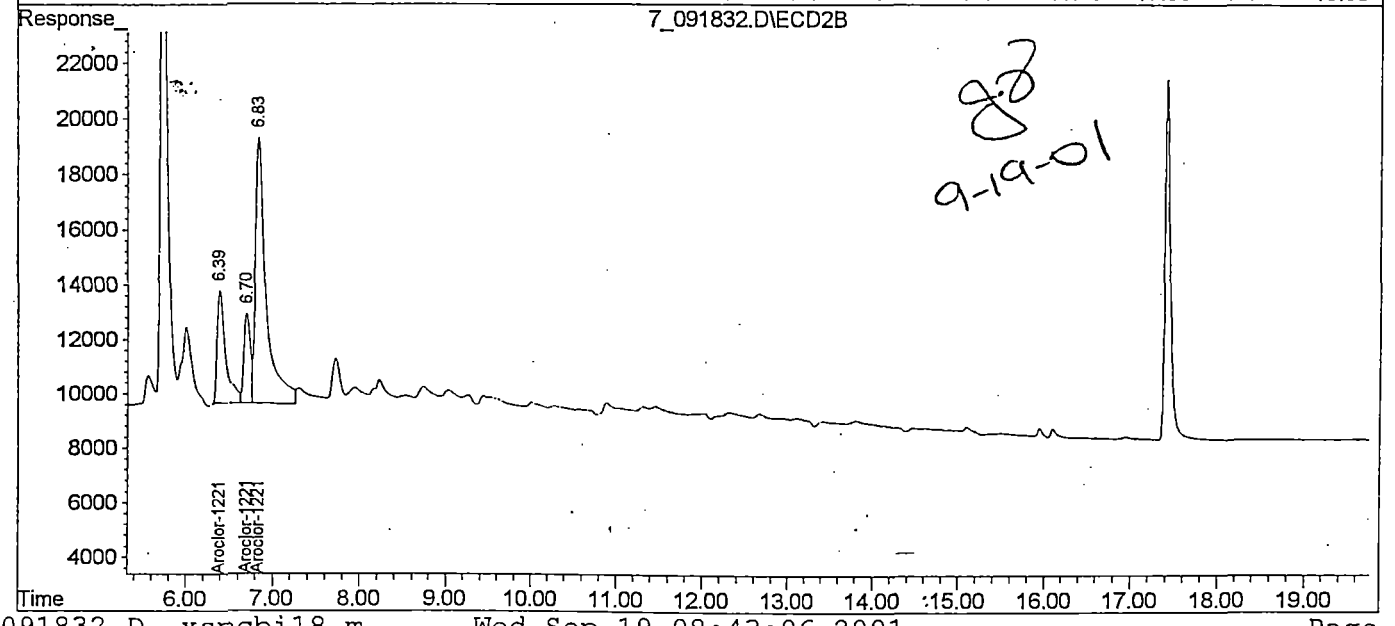
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091832.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091832.D\ECD2B.CH
Acq On : 18 Sep 2001 20:07 Operator: SA
Sample : AR1221L37H Inst : HP_07
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:34 2001 Quant Results File: xspcbi18.RES
Quant Time: Sep 19 8:34 2001 Quant Results File: xspcbi18.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Tue Aug 21 10:09:28 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_19_01\xspcbi18.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





gs
9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091832.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091832.D\ECD2B.CH
Acq On : 18 Sep 2001 20:07 Operator: SA
Sample : AR1221L37H Inst : HP_07
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:33 2001 Quant Results File: XPCBI18.RES
Multi Time: Sep 19 8:34 2001 Quant Results File: xspcbi18.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Tue Aug 21 10:09:28 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_19_01\xspcbi18.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	872506	1045073	21.2	18.5
22)	S DCB	16.90	17.42	437725	563063	18.1	20.2
	Target Compounds:						
	Multi-Component Compounds:						
2)	L2 Aroclor-1221	6.23	6.39	207440	283051	395.8	441.4
3)	L2 Aroclor-1221 {2}	6.56	6.70	104345	170644	386.2	454.4
4)	L2 Aroclor-1221 {3}	6.65	6.83	535117	830727	393.5	488.1
	Sum Aroclor-1221			846902	1284422	1175.6	1383.9
	Average Aroclor-1221					391.862	461.295

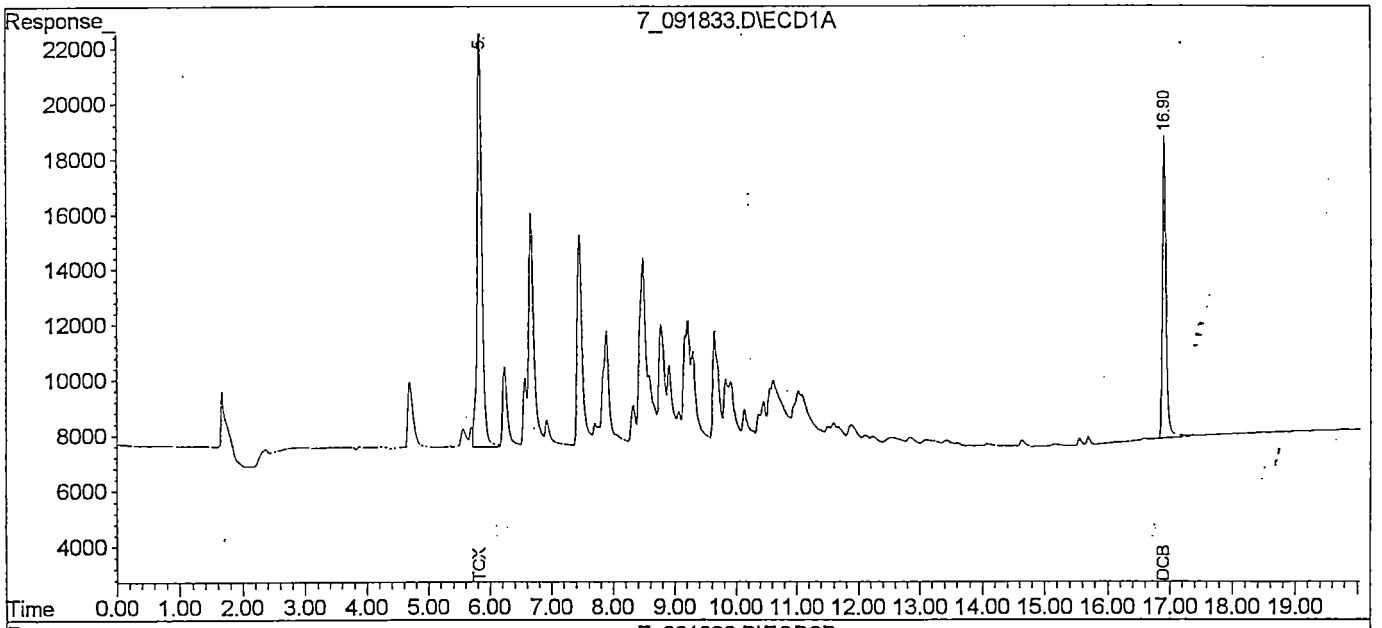
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

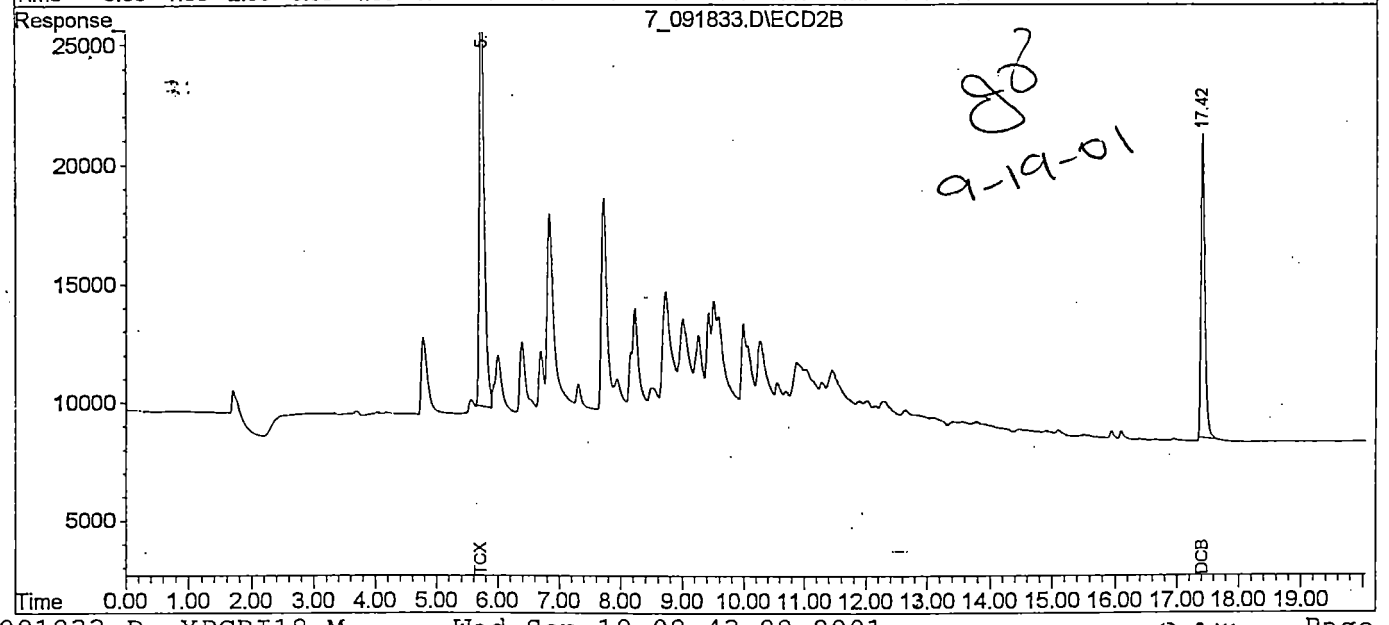
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091833.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091833.D\ECD2B.CH
Acq On : 18 Sep 2001 20:32 Operator: SA
Sample : AR1232L37H Inst : HP_07
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:35 2001 Quant Results File: XPCBI18.RES
Quant Time: Sep 19 8:37 2001 Quant Results File: xspcbi18.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Tue Aug 21 10:09:28 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_19_01\xspcbi18.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





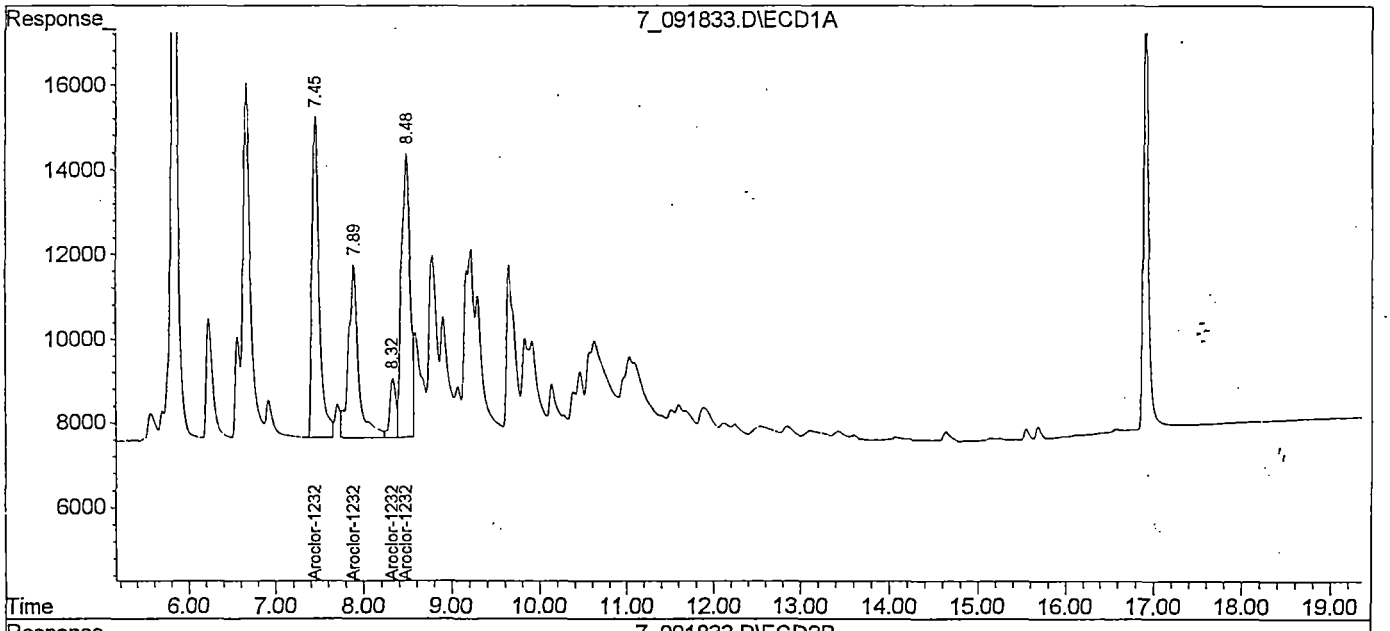
8?
9-19-01

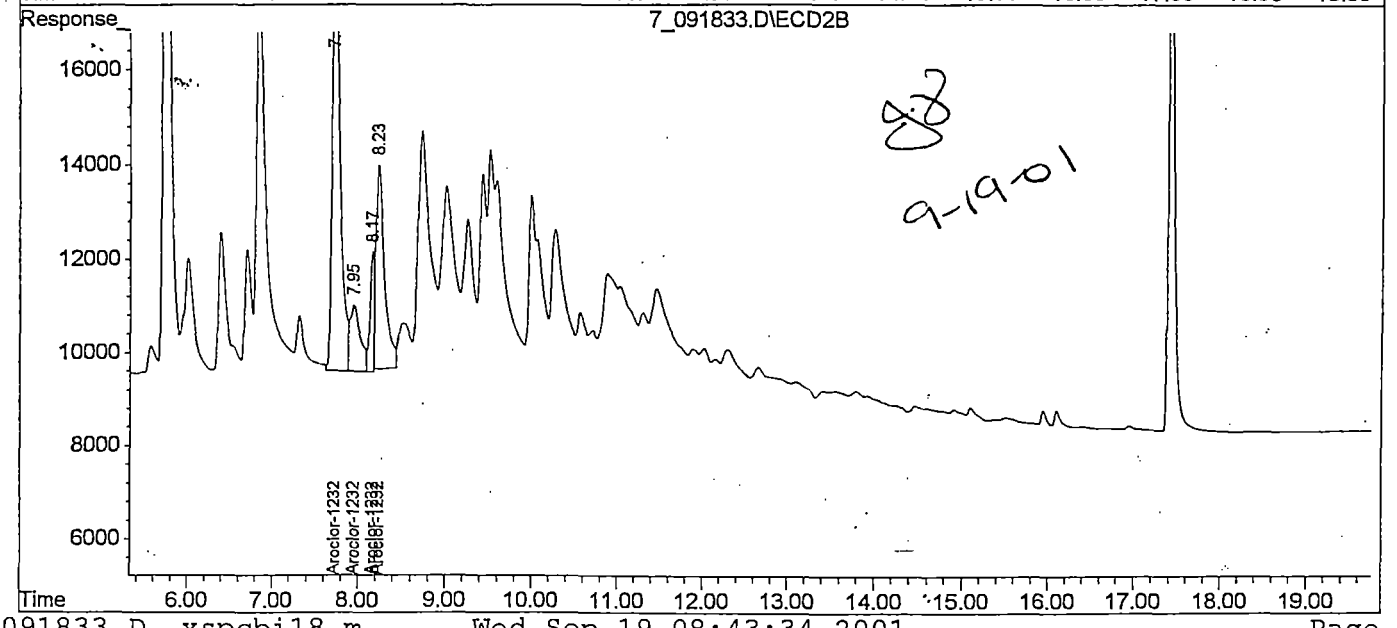
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091833.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091833.D\ECD2B.CH
Acq On : 18 Sep 2001 20:32 Operator: SA
Sample : AR1232L37H Inst : HP_07
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:37 2001 Quant Results File: xspcbi18.RES
Quant Time: Sep 19 8:37 2001 Quant Results File: xspcbi18.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Tue Aug 21 10:09:28 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_19_01\xspcbi18.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091833.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091833.D\ECD2B.CH
Acq On : 18 Sep 2001 20:32 Operator: SA
Sample : AR1232L37H Inst : HP_07
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:35 2001 Quant Results File: XPCBI18.RES
Multi Time: Sep 19 8:37 2001 Quant Results File: xspcbi18.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Tue Aug 21 10:09:28 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_19_01\xspcbi18.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

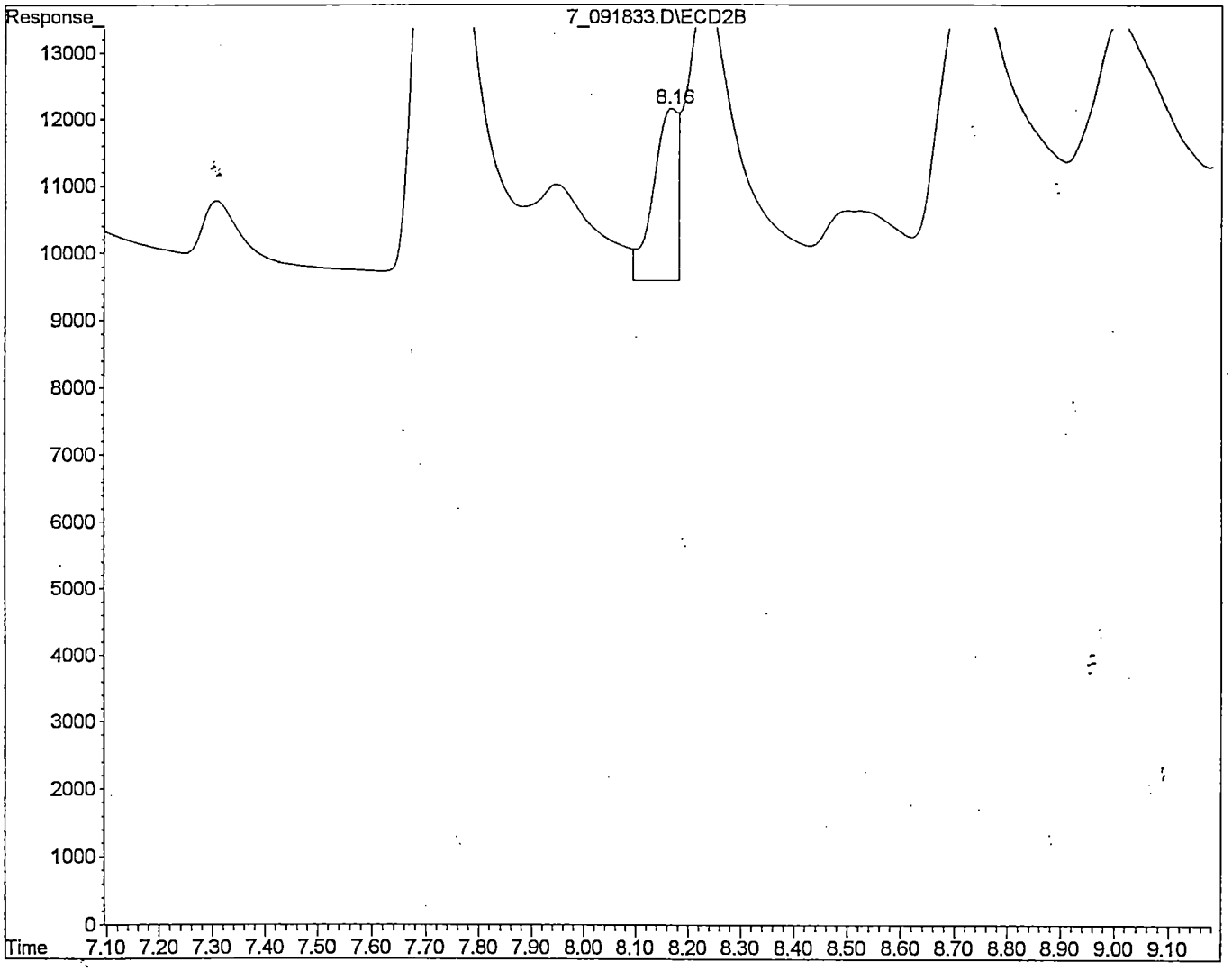
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	818302	998866	19.8	17.7
22)	S DCB	16.90	17.42	435358	549636	18.0	19.7
	Target Compounds:						
	Multi-Component Compounds:						
5)	L3 Aroclor-1232	7.45	7.72	435477	608231	449.4	456.4
6)	L3 Aroclor-1232 {2}	7.89	7.95	322014	120684	451.1	465.5
7)	L3 Aroclor-1232 {3}	8.32	8.16	67805	83178	469.0	494.6m
8)	L3 Aroclor-1232 {4}	8.48	8.23	458752	292746	342.7	447.3m #
	Sum Aroclor-1232			1284048	1104839	1712.1	1863.8
	Average Aroclor-1232					428.023	465.949

09.19.01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091833.D
Date Acquired: 18 Sep 2001 20:32
Inst: HP_07 Operator ID: SA
Name: AR1232L37H
Misc: 5-422-6
Method: f:\hpchem\hp\7\data\09_19_01\xspcbi18.m
Title:
Quant Time: Sep 19 8:37 2001 Quant Results File: xspcbi18.RES



09.19.01

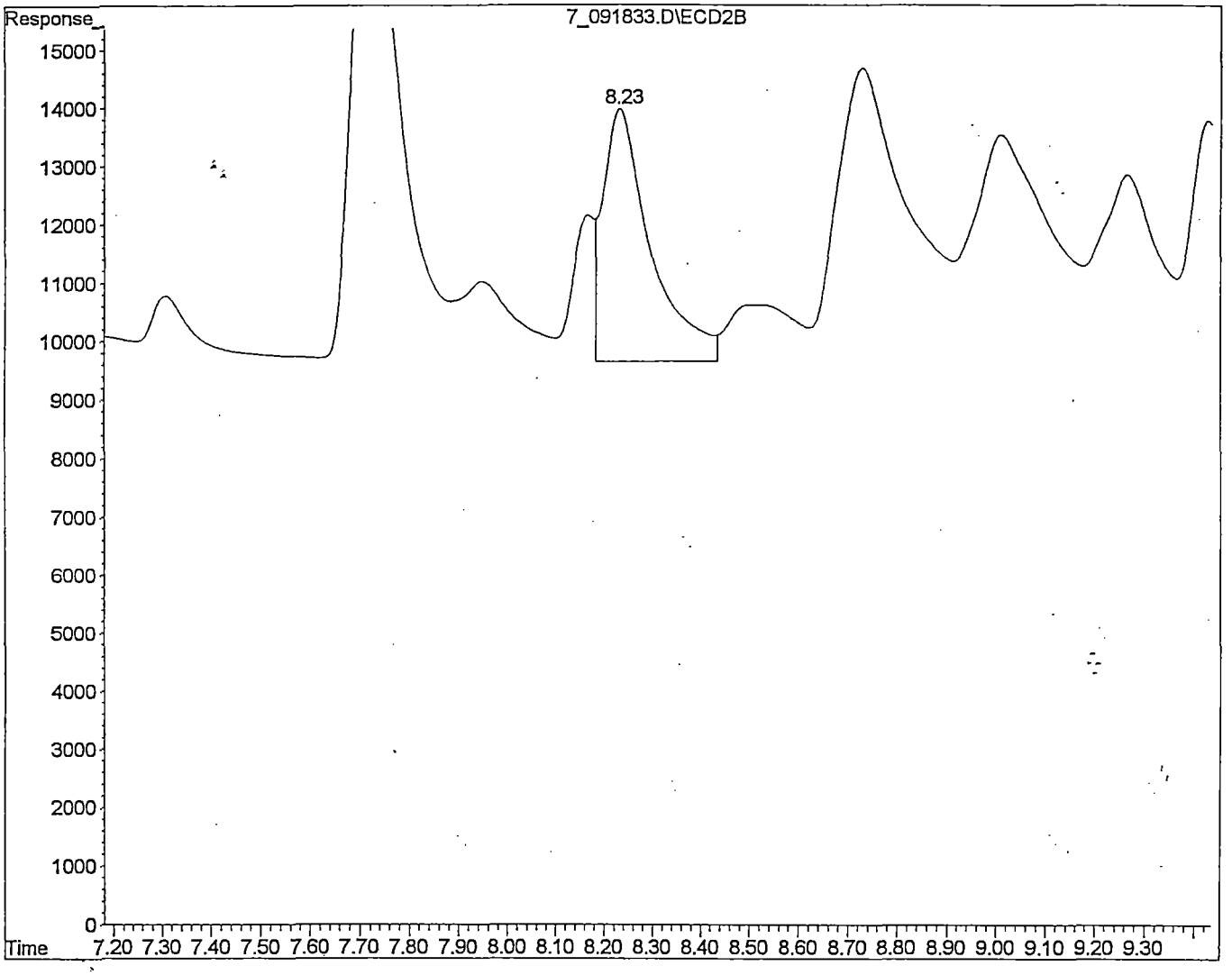
Aroclor-1232 {3} #2 8.16min area: 83178 m

Integration Time Range: 8.10 - 8.18

F:\HPCHEM\HP\7\DATA\09_19_01\7_091833.D
Report generated: Wed Sep 19 08:56:06 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091833.D
Date Acquired: 18 Sep 2001 20:32
Inst: HP_07 Operator ID: SA
Name: AR1232L37H
Misc: 5-422-6
Method: f:\hpchem\hp\7\data\09_19_01\xspcbi18.m
Title:
Quant Time: Sep 19 8:37 2001 Quant Results File: xspcbi18.RES



CB 9.19.01

Aroclor-1232 {4} #2 8.23min area: 292746 m

Integration Time Range: 8.18 - 8.43

F:\HPCHEM\HP\7\DATA\09_19_01\7_091833.D
Report generated: Wed Sep 19 08:56:07 2001

Response Factor Report HP_07

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Calibration Files
L1 =7_091834.D L2 =7_091835.D L3 =7_091836.D
L4 =7_091837.D L5 =7_091838.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
7) Aroclor-1242	2.0	2.0	1.9	1.8	1.6	1.8 E3	9.51
8) Aroclor-1242 {2}	1.8	2.0	2.3	3.0	2.9	2.4 E3	21.99
9) Aroclor-1242 {3}	1.2	1.2	1.2	1.2	1.1	1.2 E3	4.09
10) Aroclor-1242 {4}	1.5	1.5	1.5	1.4	1.3	1.4 E3	7.50
11) Aroclor-1242 {5}	1.4	1.3	1.4	1.3	1.2	1.3 E3	3.89

Signal #2 Calibration Files
L1 =7_091834.D L2 =7_091835.D L3 =7_091836.D
L4 =7_091837.D L5 =7_091838.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
30) Aroclor-1242 #2	2.6	2.6	2.7	2.6	2.5	2.6 E3	3.57
31) Aroclor-1242 {2} #2	2.0	2.2	2.6	2.9	3.3	2.6 E3	20.17
32) Aroclor-1242 {3} #2	2.1	2.0	2.0	2.0	1.9	2.0 E3	4.87
33) Aroclor-1242 {4} #2	1.3	1.2	1.2	1.2	1.2	1.2 E3	3.06
34) Aroclor-1242 {5} #2	2.1	2.0	2.0	2.0	2.0	2.0 E3	3.08

(#) = Out of Range

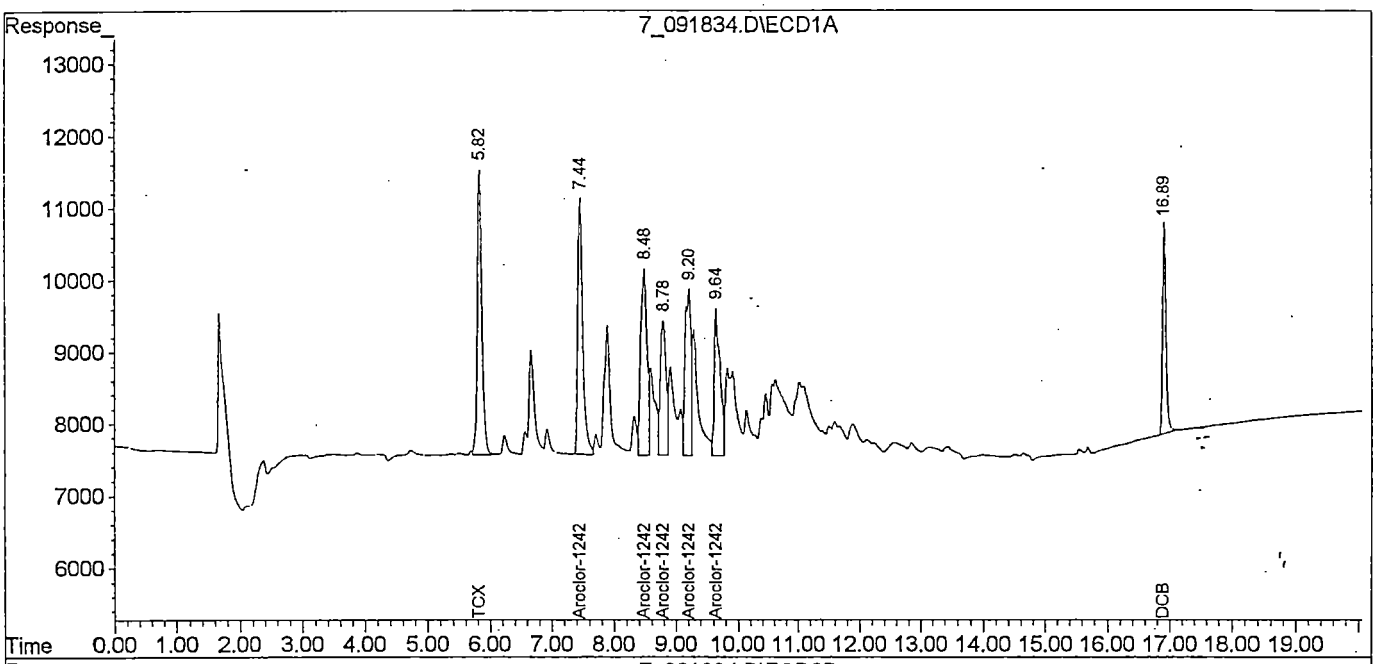
XPCBI18.M Wed Sep 19 08:24:43 2001

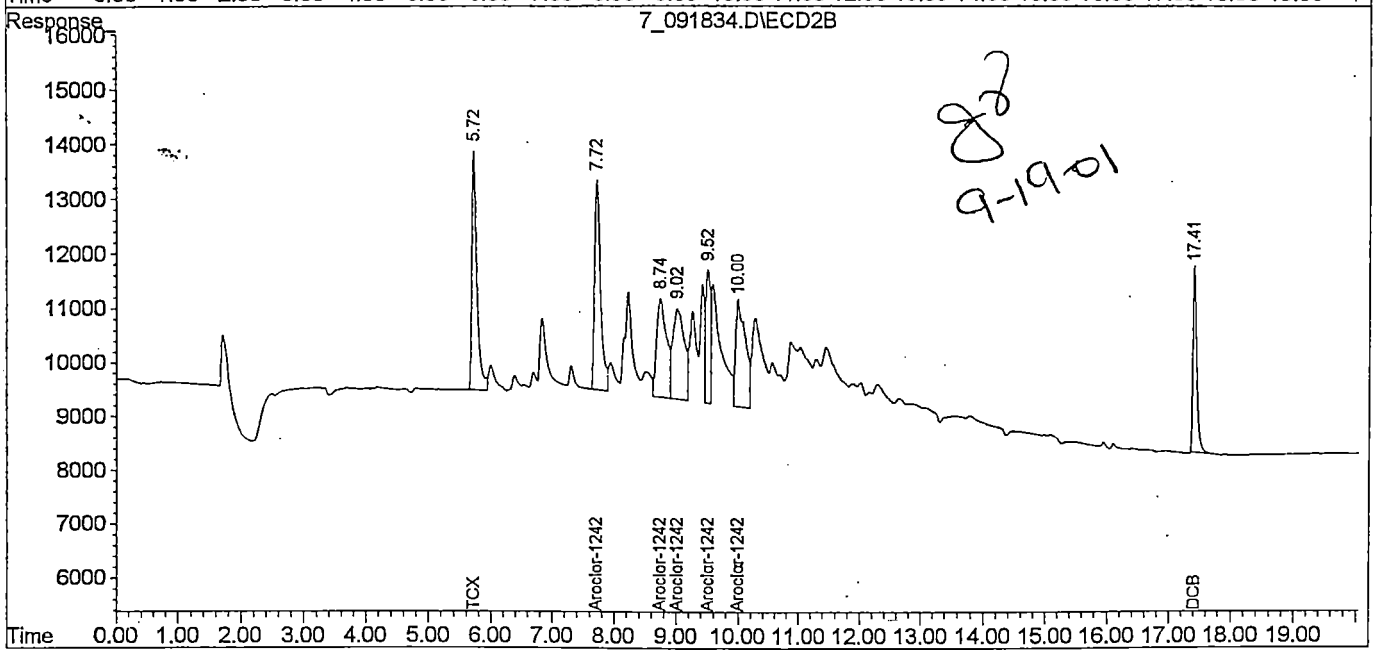
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091834.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091834.D\ECD2B.CH
Acq On : 18 Sep 2001 20:56 Operator: SA
Sample : AR1242L17H Inst : HP_07
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:19 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





8
9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091834.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091834.D\ECD2B.CH
Acq On : 18 Sep 2001 20:56 Operator: SA
Sample : AR1242L17H Inst : HP_07
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:19 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.72	199193	250329	4.830	4.425
22)	S DCB	16.90	17.42	111846	145953	4.634	5.238
	Target Compounds:						
7)	L4 Aroclor-1242	7.44	7.72	198960	263191	110.7	105.4
8)	L4 Aroclor-1242 {2}	8.48	8.74	181071	203111	88.3	88.5
9)	L4 Aroclor-1242 {3}	8.78	9.02	121283	214428	106.1	117.7
10)	L4 Aroclor-1242 {4}	9.20	9.52	153977	125274	112.0	110.3
11)	L4 Aroclor-1242 {5}	9.64	10.00	137343	212176	108.0	114.0
	Sum Aroclor-1242			792634	1018181	525.2	536.0
	Average Aroclor-1242					105.036	107.201

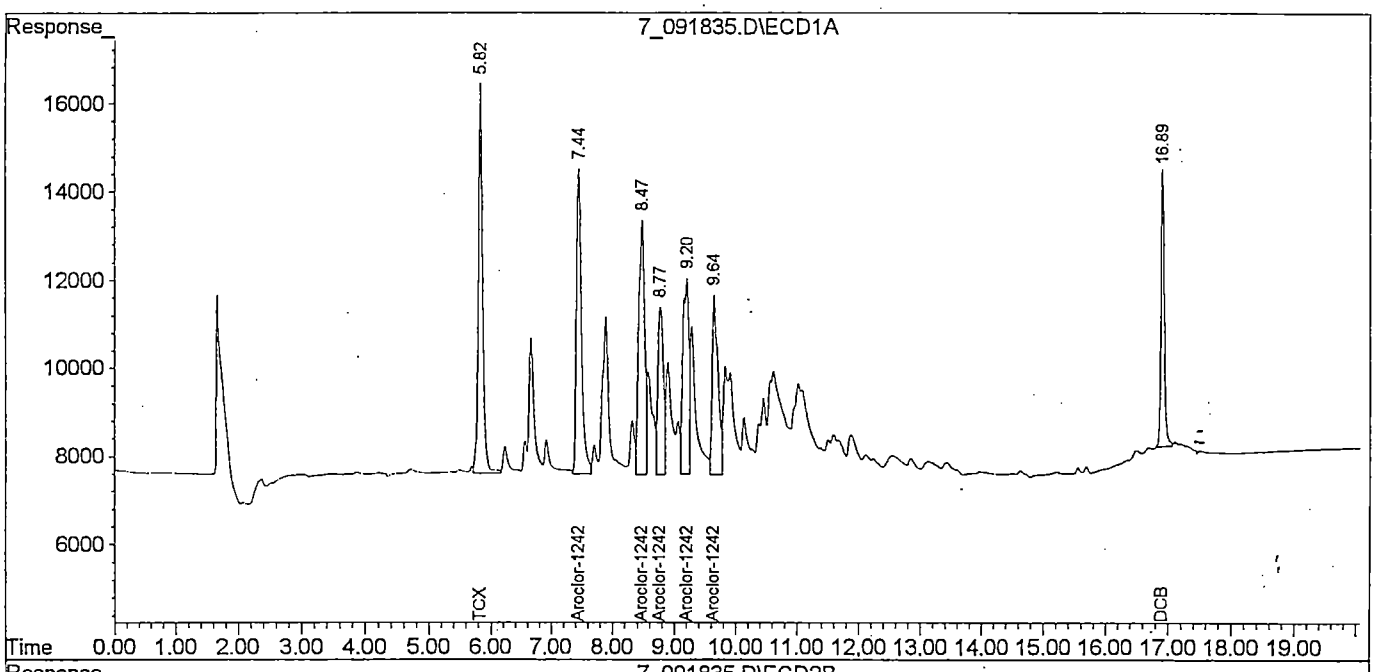
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

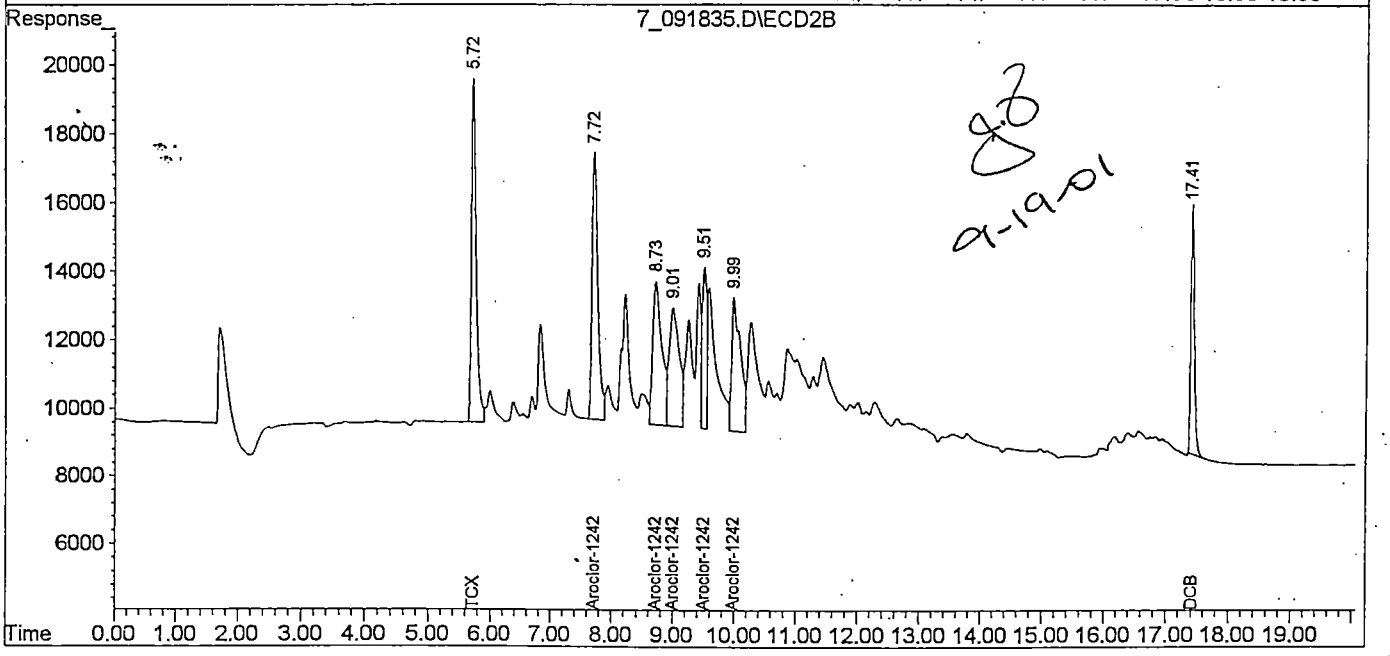
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091835.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091835.D\ECD2B.CH
Acq On : 18 Sep 2001 21:20 Operator: SA
Sample : AR1242L27H Inst : HP_07
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:23 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091835.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091835.D\ECD2B.CH
Acq On : 18 Sep 2001 21:20 Operator: SA
Sample : AR1242L27H Inst : HP_07
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:23 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

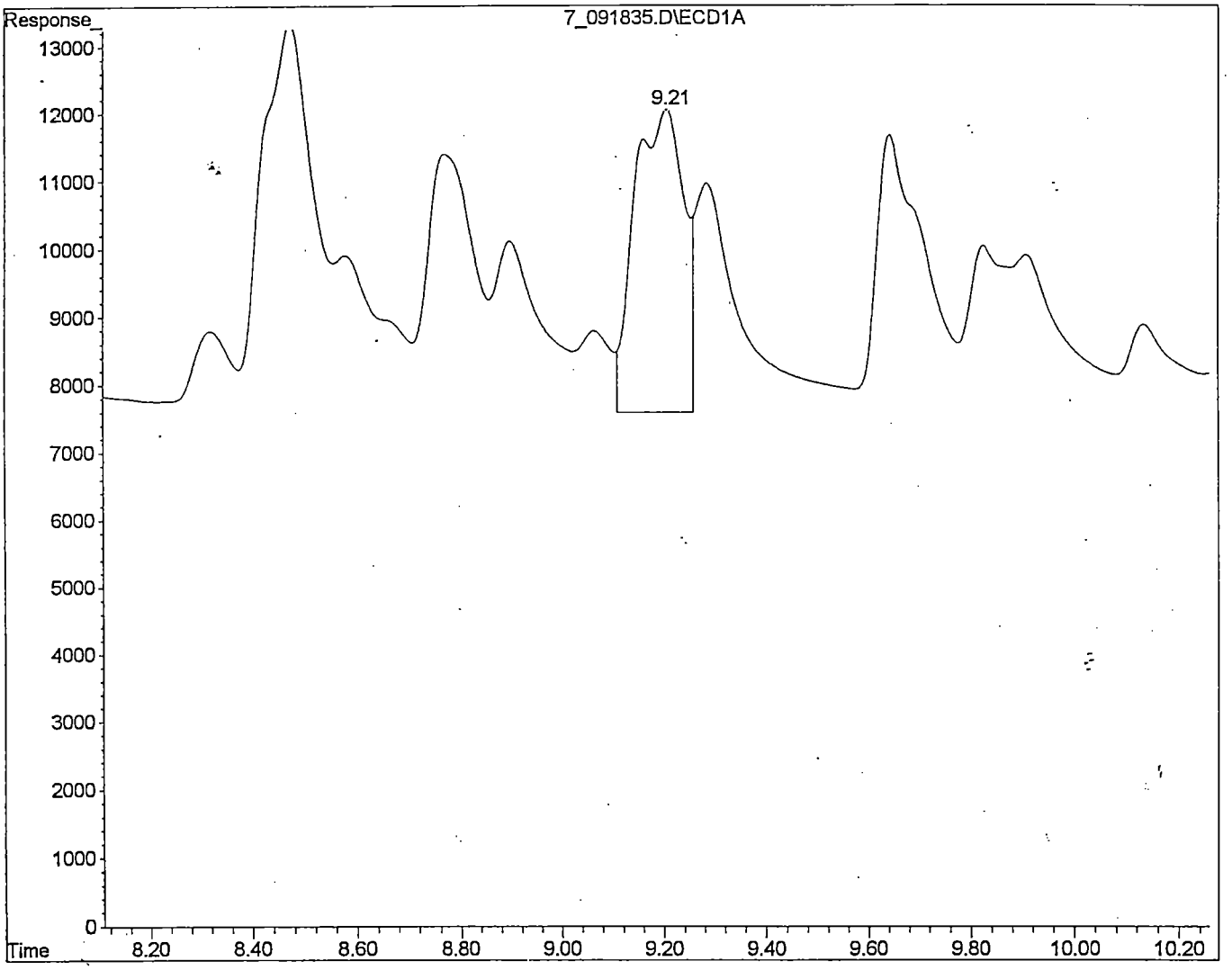
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.72	422568	524638	10.2	9.273
22)	S DCB	16.89	17.41	232642	287953	9.639	10.3
	Target Compounds:						
7)	L4 Aroclor-1242	7.44	7.72	391089	512691	217.7	205.3
8)	L4 Aroclor-1242 {2}	8.47	8.73	393819	432219	192.1	188.4
9)	L4 Aroclor-1242 {3}	8.77	9.01	240826	397286	210.7	218.1
10)	L4 Aroclor-1242 {4}	9.20	9.51	298764	231611	217.3m	204.0
11)	L4 Aroclor-1242 {5}	9.64	9.99	269396	391101	211.8	210.2
	Sum Aroclor-1242			1593894	1964907	1049.6	1026.0
	Average Aroclor-1242					209.930	205.194

cd 9.19.01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091835.D
Date Acquired: 18 Sep 2001 21:20
Inst: HP_07 Operator ID: SA
Name: AR1242L27H
Misc: 5-10-7
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 8:23 2001 Quant Results File: XPCBI18.RES



AS 9-19-01

Aroclor-1242 {4} 9.21min area: 298764 m

Integration Time Range: 9.11 - 9.26

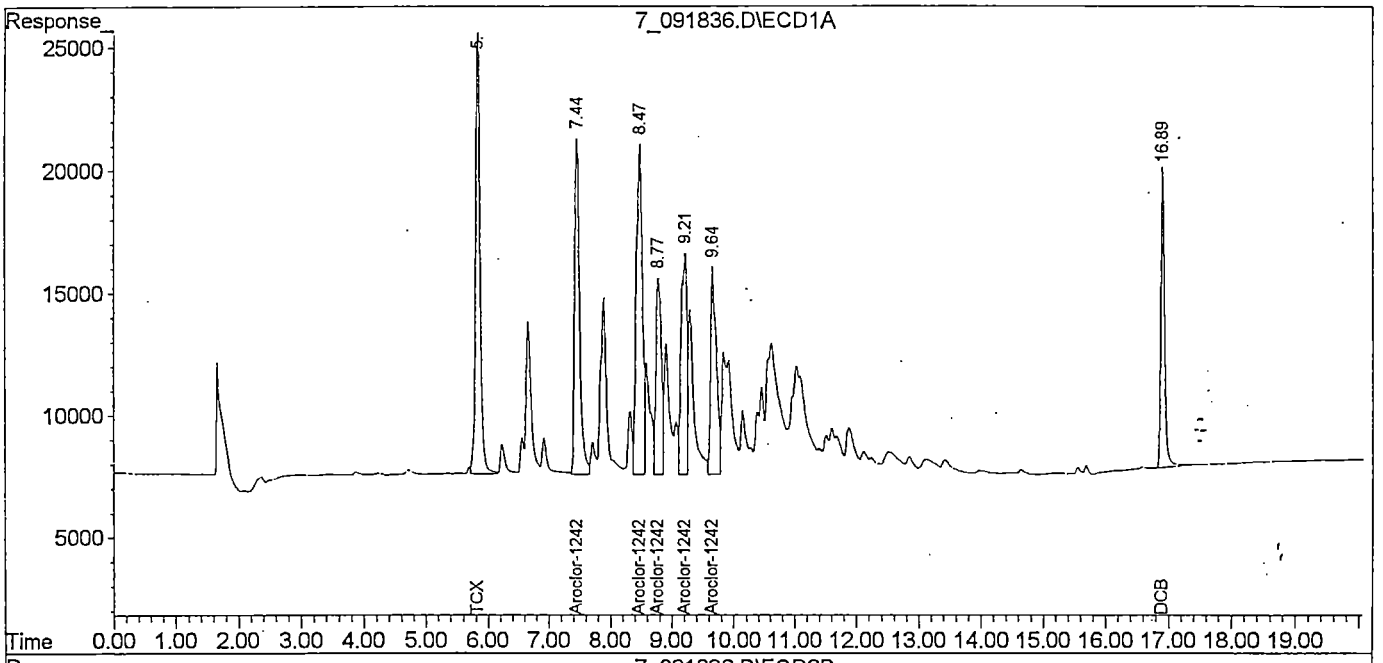
F:\HPCHEM\HP\7\DATA\09_19_01\7_091835.D
Report generated: Wed Sep 19 08:56:11 2001

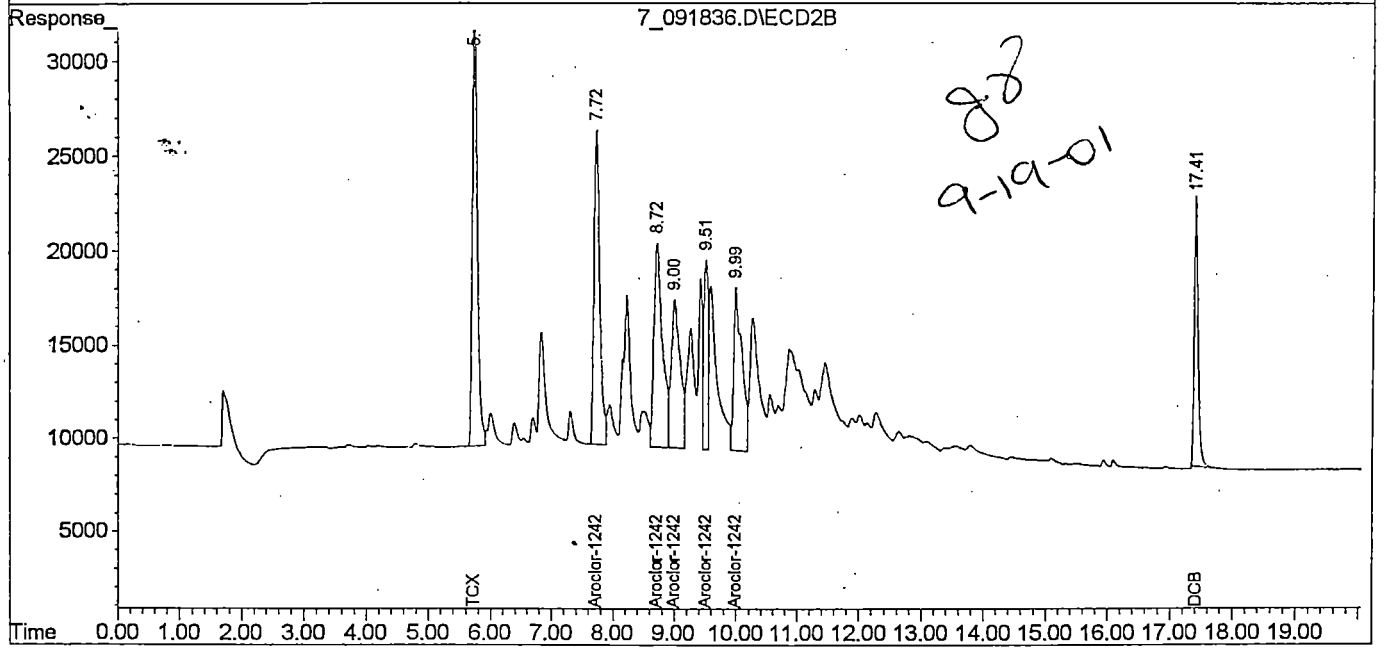
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091836.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091836.D\ECD2B.CH
Acq On : 18 Sep 2001 21:44 Operator: SA
Sample : AR1242L37H Inst : HP_07
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:21 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





gd
9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091836.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091836.D\ECD2B.CH
Acq On : 18 Sep 2001 21:44 Operator: SA
Sample : AR1242L37H Inst : HP_07
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:21 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	938296	1253391	22.8	22.2
22)	S DCB	16.89	17.41	483333	613381	20.0	22.0
	Target Compounds:						
7)	L4 Aroclor-1242	7.44	7.72	777693	1099876	432.8	440.5
8)	L4 Aroclor-1242 {2}	8.47	8.72	903794	1034974	440.9	451.1
9)	L4 Aroclor-1242 {3}	8.77	9.00	493905	811437	432.2	445.5
10)	L4 Aroclor-1242 {4}	9.20	9.51	593725	496525	431.9	437.3
11)	L4 Aroclor-1242 {5}	9.64	9.99	548115	807734	431.0	434.1
	Sum Aroclor-1242			3317231	4250546	2168.8	2208.4
	Average Aroclor-1242					433.752	441.682

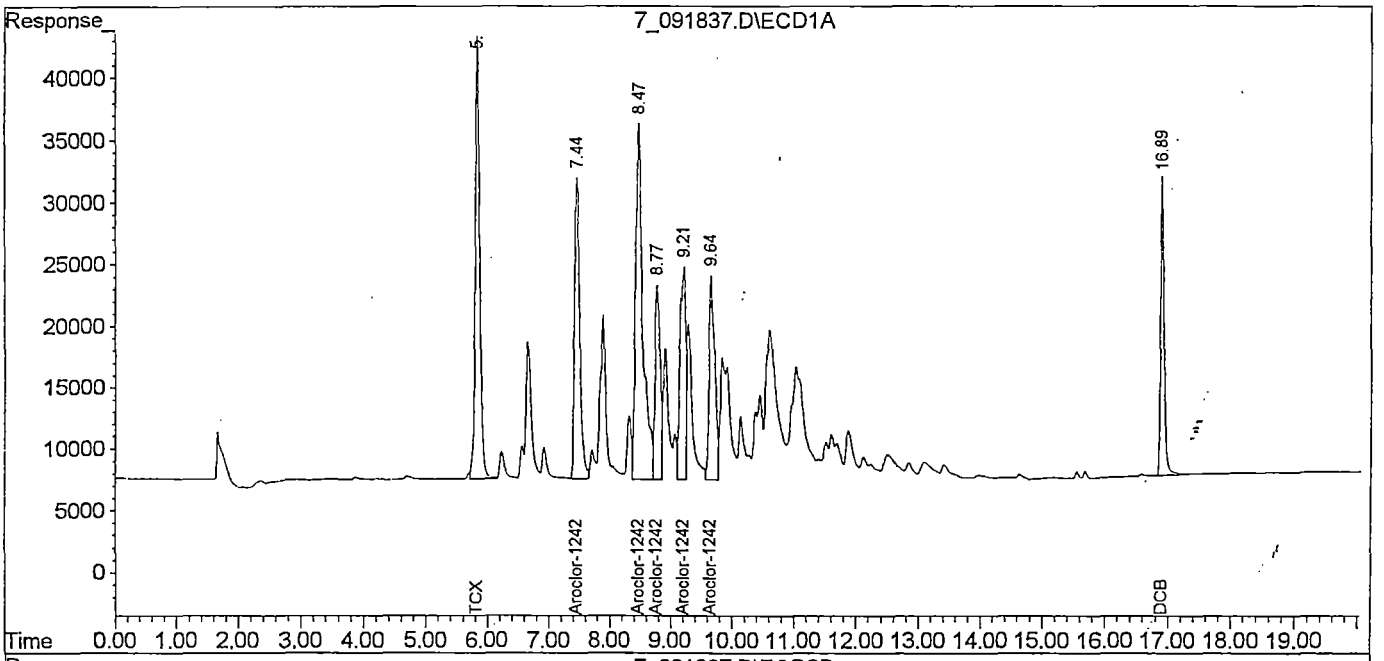
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

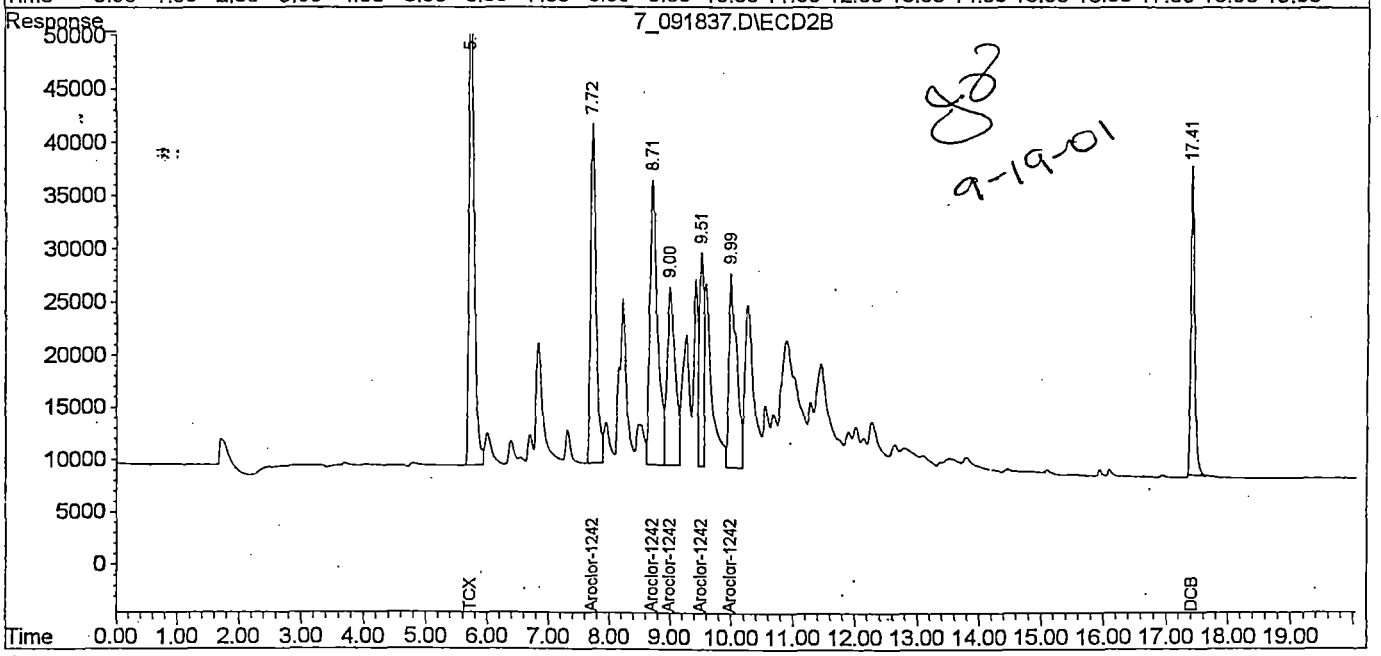
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091837.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091837.D\ECD2B.CH
Acq On : 18 Sep 2001 22:08 Operator: SA
Sample : AR1242L47H Inst : HP_07
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:21 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





gs
9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091837.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091837.D\ECD2B.CH
Acq On : 18 Sep 2001 22:08 Operator: SA
Sample : AR1242L47H Inst : HP_07
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:21 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	1847042	2729797	44.8	48.2
22)	S DCB	16.89	17.41	954733	1230476	39.6	44.2
	Target Compounds:						
7)	L4 Aroclor-1242	7.44	7.72	1405490	2080541	782.2	833.2
8)	L4 Aroclor-1242 {2}	8.47	8.71	2361029	2348208	1151.9	1023.4
9)	L4 Aroclor-1242 {3}	8.77	9.00	943812	1566757	825.8	860.3
10)	L4 Aroclor-1242 {4}	9.20	9.51	1110723	986431	807.9	868.7
11)	L4 Aroclor-1242 {5}	9.64	9.99	1061254	1604885	834.4	862.5
	Sum Aroclor-1242			6882309	8586822	4402.3	4448.0
	Average Aroclor-1242					880.459	889.604

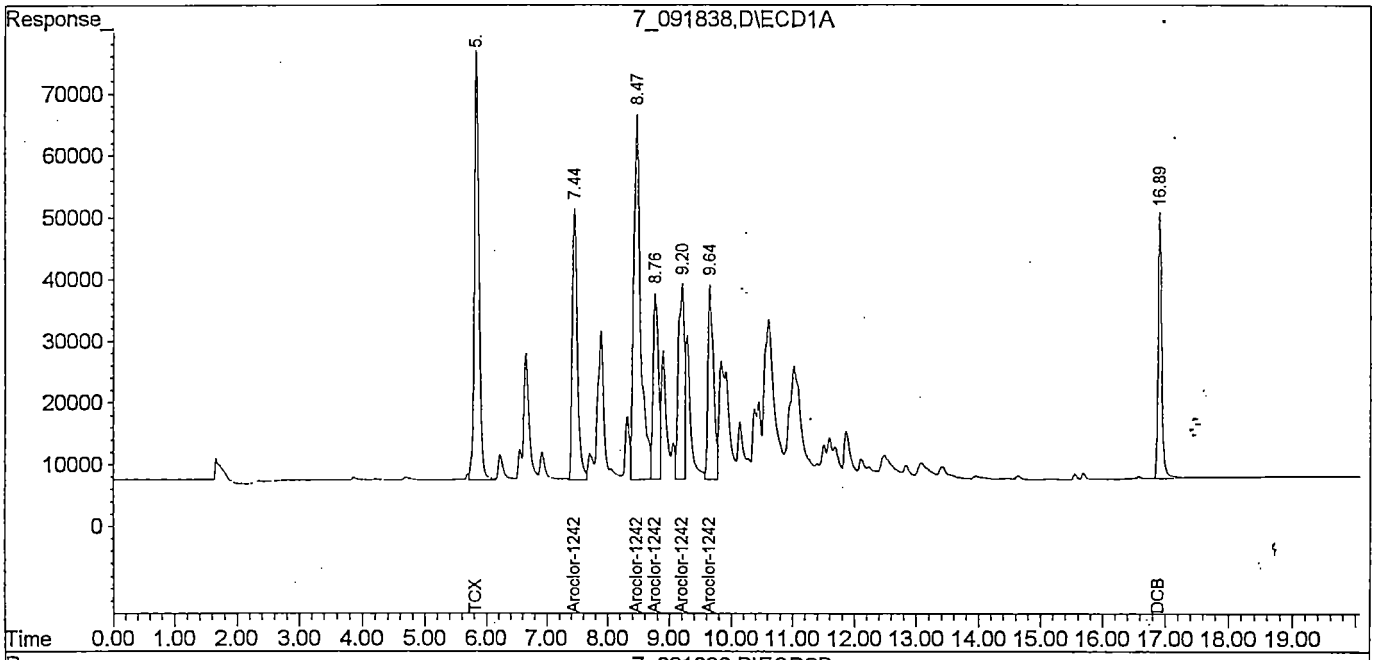
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

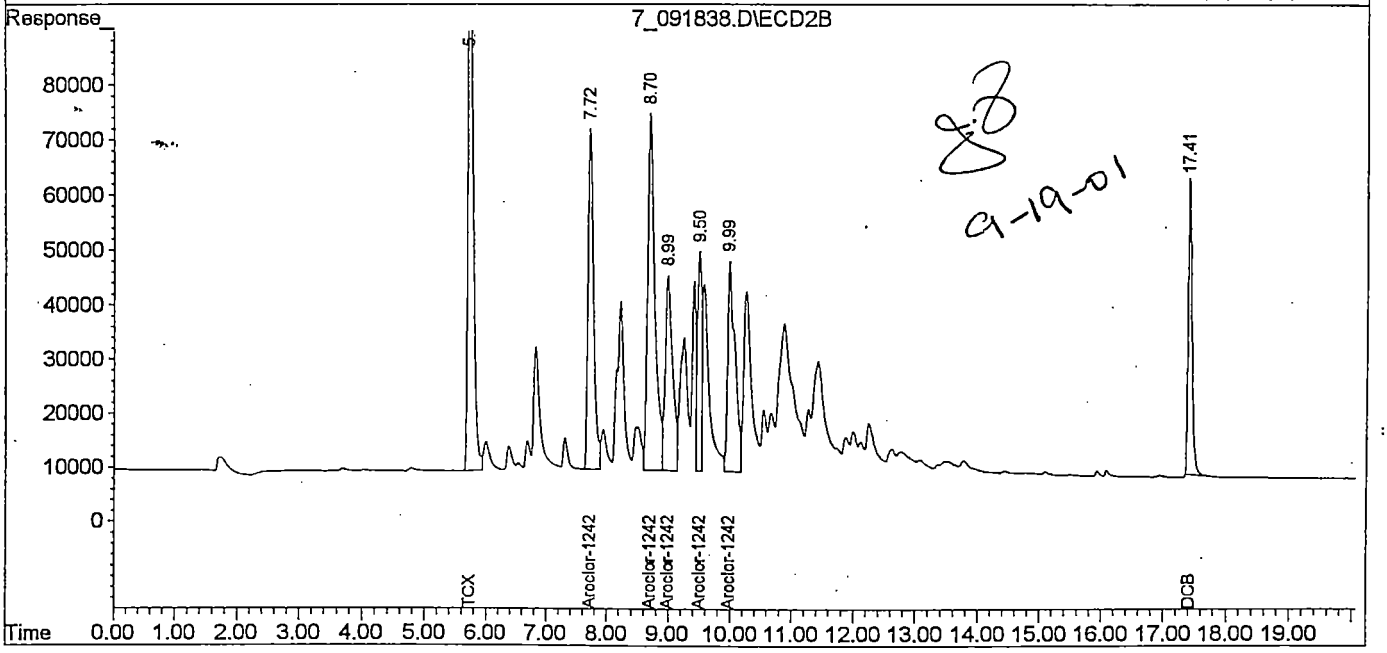
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091838.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091838.D\ECD2B.CH
Acq On : 18 Sep 2001 22:32 Operator: SA
Sample : AR1242L57H Inst : HP_07
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:22 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091838.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091838.D\ECD2B.CH
Acq On : 18 Sep 2001 22:32 Operator: SA
Sample : AR1242L57H Inst : HP_07
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:22 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	3651888	5966618	88.6	105.5
22)	S DCB	16.89	17.41	1727132	2258099	71.6 E	81.0
	Target Compounds:						
7)	L4 Aroclor-1242	7.44	7.72	2521861	3996743	1403.5 E	1600.5 E
8)	L4 Aroclor-1242 {2}	8.47	8.70	4621079	5258880	2254.5	2292.0
9)	L4 Aroclor-1242 {3}	8.76	8.99	1773581	3007820	1551.9 E	1651.5 E
10)	L4 Aroclor-1242 {4}	9.20	9.50	2031553	1940806	1477.7 E	1709.2
11)	L4 Aroclor-1242 {5}	9.64	9.99	1994178	3186450	1567.9	1712.4
	Sum Aroclor-1242			12942251	17390698	8255.6	8965.6
	Average Aroclor-1242					1651.119	1793.118

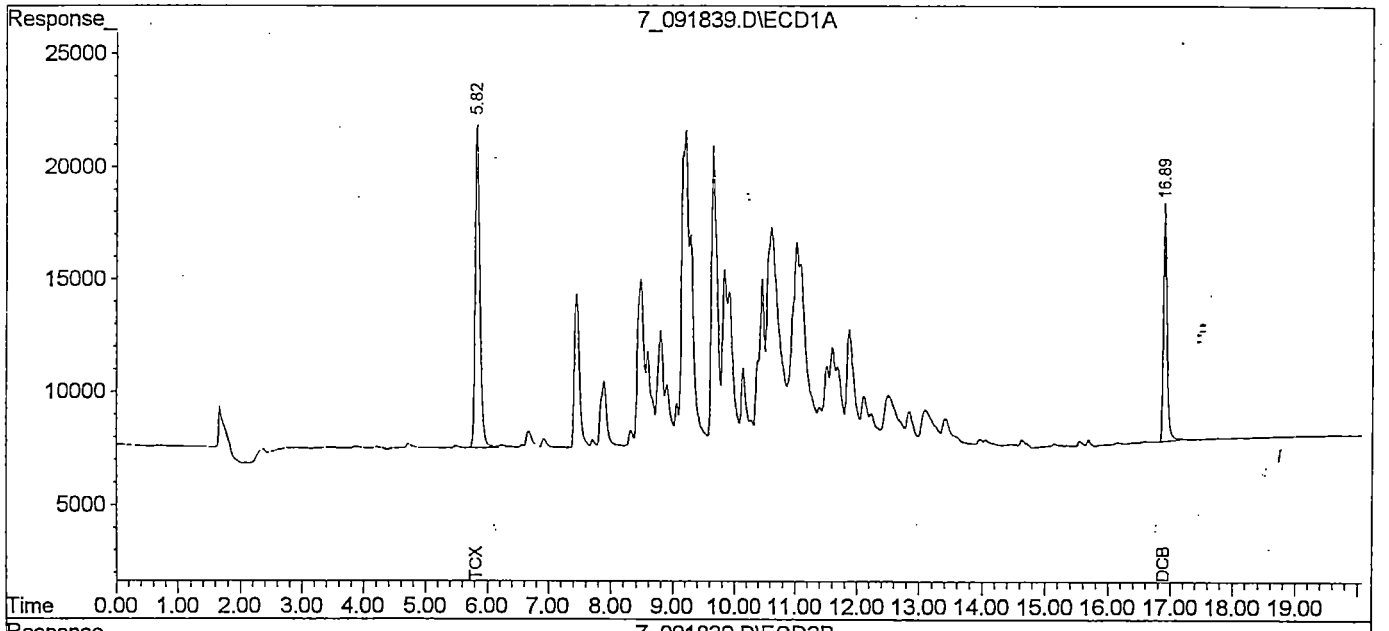
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

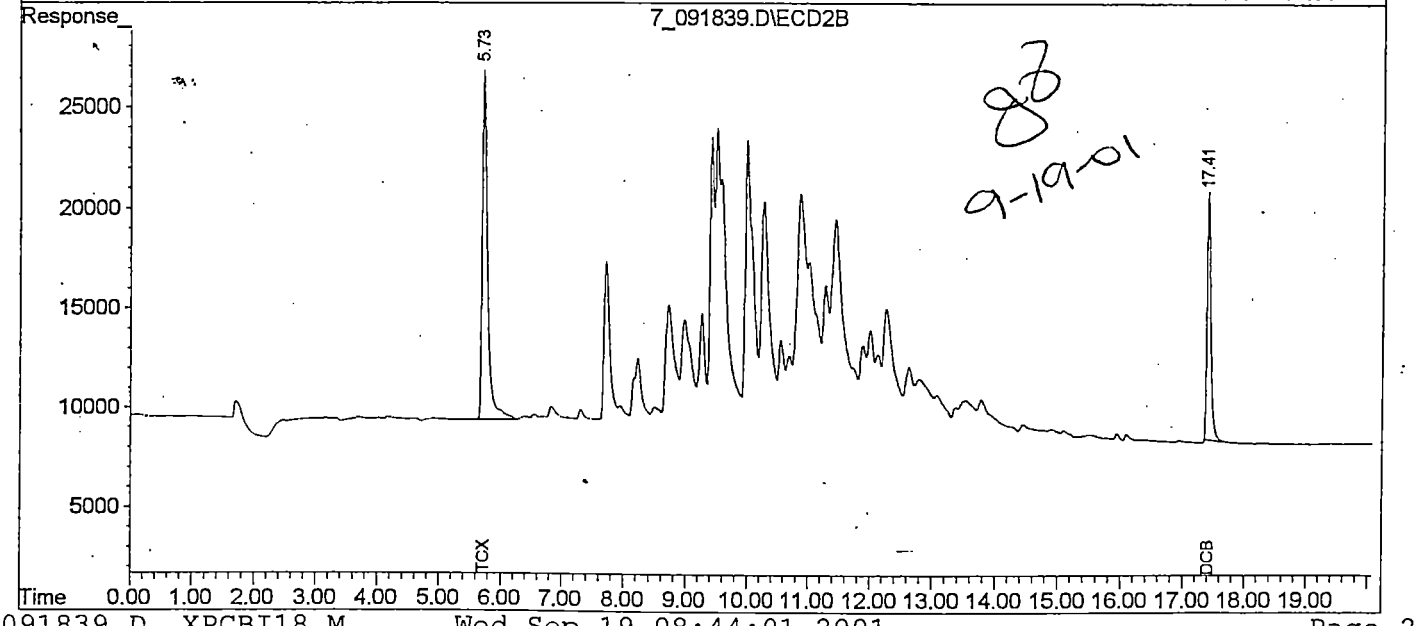
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091839.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091839.D\ECD2B.CH
Acq On : 18 Sep 2001 22:56 Operator: SA
Sample : AR1248L37H Inst : HP_07
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:38 2001 Quant Results File: XPCBI18.RES
Quant Time: Sep 19 8:40 2001 Quant Results File: xspcbi18.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Tue Aug 21 10:09:28 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_19_01\xspcbi18.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





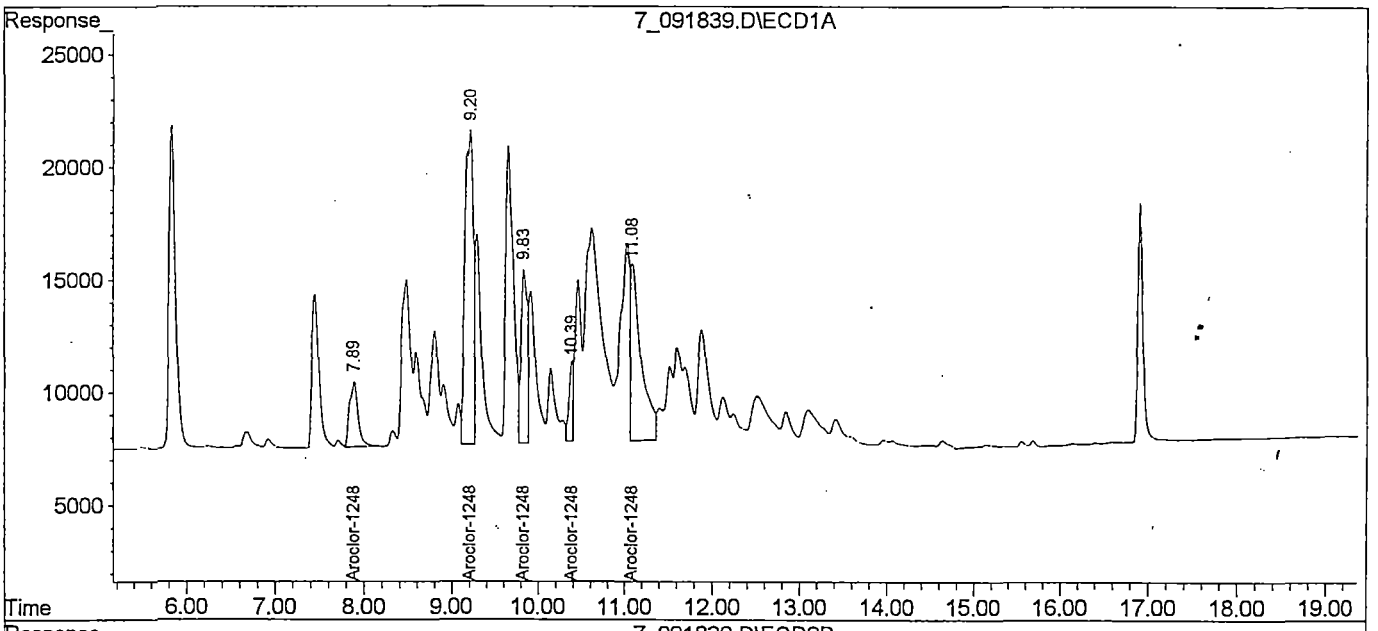
8
9-19-01

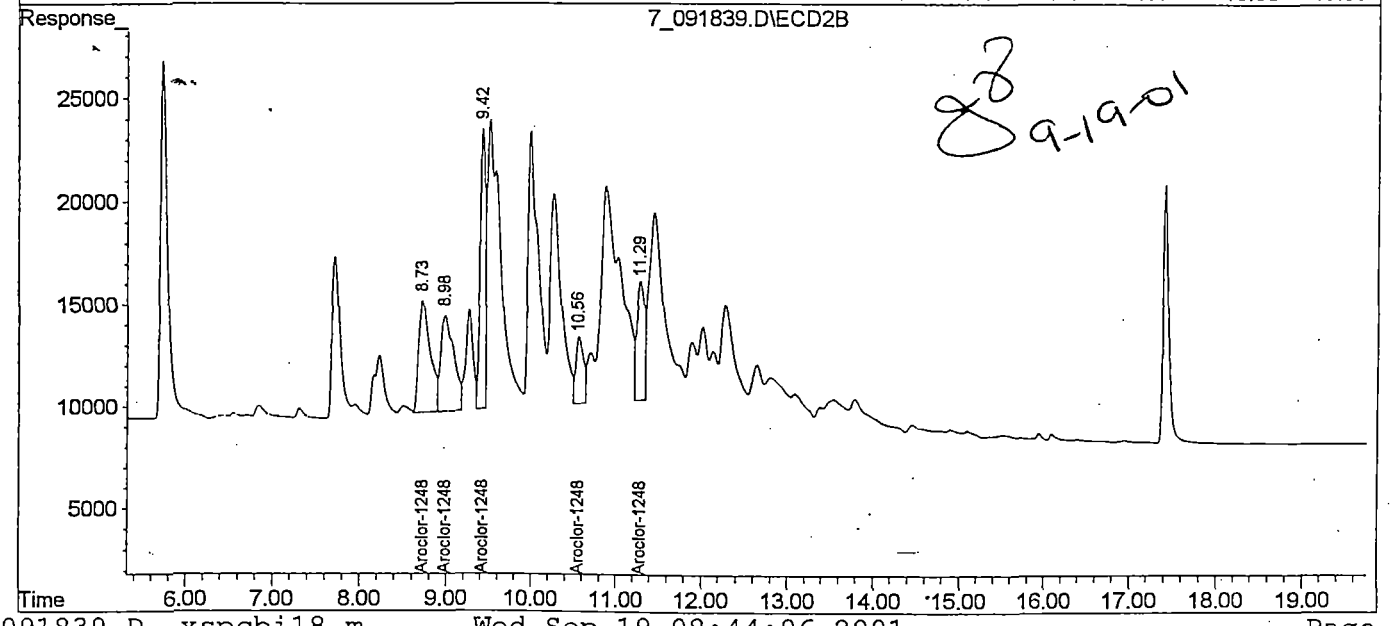
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091839.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091839.D\ECD2B.CH
Acq On : 18 Sep 2001 22:56 Operator: SA
Sample : AR1248L37H Inst : HP_07
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:40 2001 Quant Results File: xspcbi18.RES
Quant Time: Sep 19 8:40 2001 Quant Results File: xspcbi18.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Tue Aug 21 10:09:28 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_19_01\xspcbi18.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091839.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091839.D\ECD2B.CH
Acq On : 18 Sep 2001 22:56 Operator: SA
Sample : AR1248L37H Inst : HP_07
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:38 2001 Quant Results File: XPCBI18.RES
Multi Time: Sep 19 8:40 2001 Quant Results File: xspcbi18.RES

Pesticide Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Tue Aug 21 10:09:28 2001

Multi-Component Method : f:\hpchem\hp\7\data\09_19_01\xspcbi18.m
Title : PCB/TOXAPHENE
Last Update : Wed May 30 11:44:17 2001
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

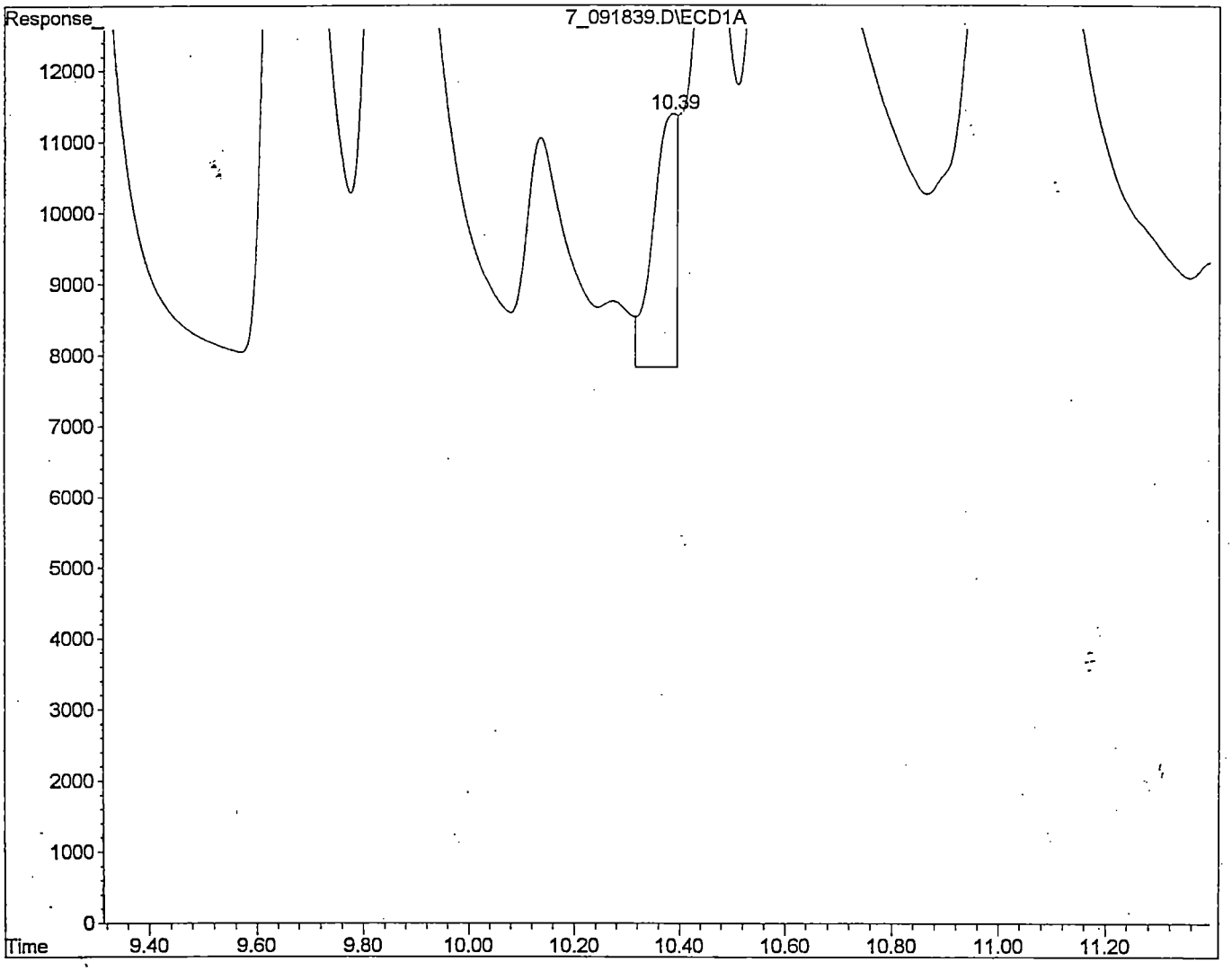
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.73	739936	1077572	17.9	19.0	
22)	S DCB	16.90	17.42	419188	530186	17.4	19.0	
	Target Compounds:							
	Multi-Component Compounds:							
14)	L5 Aroclor-1248	7.89	8.73	189508	525338	406.8	427.6	
15)	L5 Aroclor-1248 {2}	9.20f	8.98	934005	500484	1019.6	438.0	#
16)	L5 Aroclor-1248 {3}	9.83	9.42	374378	592033	430.3	418.2	
17)	L5 Aroclor-1248 {4}	10.39	10.56	111731	203618	393.7m	444.2	
18)	L5 Aroclor-1248 {5}	11.08	11.29	659953	362219	439.5	460.0	
	Sum Aroclor-1248			2269575	2183692	2689.9	2188.0	
	Average Aroclor-1248					537.983	437.607	

09.K.1

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091839.D
Date Acquired: 18 Sep 2001 22:56
Inst: HP_07 Operator ID: SA
Name: AR1248L37H
Misc: 5-424-6
Method: f:\hpchem\hp\7\data\09_19_01\xspcbi18.m
Title:
Quant Time: Sep 19 8:40 2001 Quant Results File: xspcbi18.RES



cd 9.19.01

Aroclor-1248 {4} 10.39min area: 111731 m

Integration Time Range: 10.31 - 10.39

F:\HPCHEM\HP\7\DATA\09_19_01\7_091839.D
Report generated: Wed Sep 19 08:56:18 2001

Response Factor Report HP_07

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Calibration Files
L1 =7_091840.D L2 =7_091841.D L3 =7_091842.D
L4 =7_091843.D L5 =7_091844.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
12) Aroclor-1254	1.9	1.9	1.9	1.8	1.7	1.8 E3	5.52
13) Aroclor-1254 {2}	5.1	5.1	5.0	4.6	4.3	4.8 E3	6.99
14) Aroclor-1254 {3}	3.1	3.2	3.2	3.1	3.0	3.1 E3	2.65
15) Aroclor-1254 {4}	2.7	2.6	2.5	2.3	2.1	2.5 E3	9.44
16) Aroclor-1254 {5}	3.5	3.6	3.6	3.1	3.1	3.4 E3	6.80

Signal #2 Calibration Files
L1 =7_091840.D L2 =7_091841.D L3 =7_091842.D
L4 =7_091843.D L5 =7_091844.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
35) Aroclor-1254 #2	3.0	3.1	3.3	3.4	3.5	3.3 E3	5.42
36) Aroclor-1254 {2} #2	2.6	2.7	2.8	2.8	2.9	2.8 E3	4.58
37) Aroclor-1254 {3} #2	5.3	5.3	5.4	4.4	5.4	5.2 E3	7.86
38) Aroclor-1254 {4} #2	3.0	2.8	2.7	2.5	2.4	2.7 E3	8.38
39) Aroclor-1254 {5} #2	5.4	4.8	4.8	4.7	4.5	4.8 E3	6.89

(#) = Out of Range

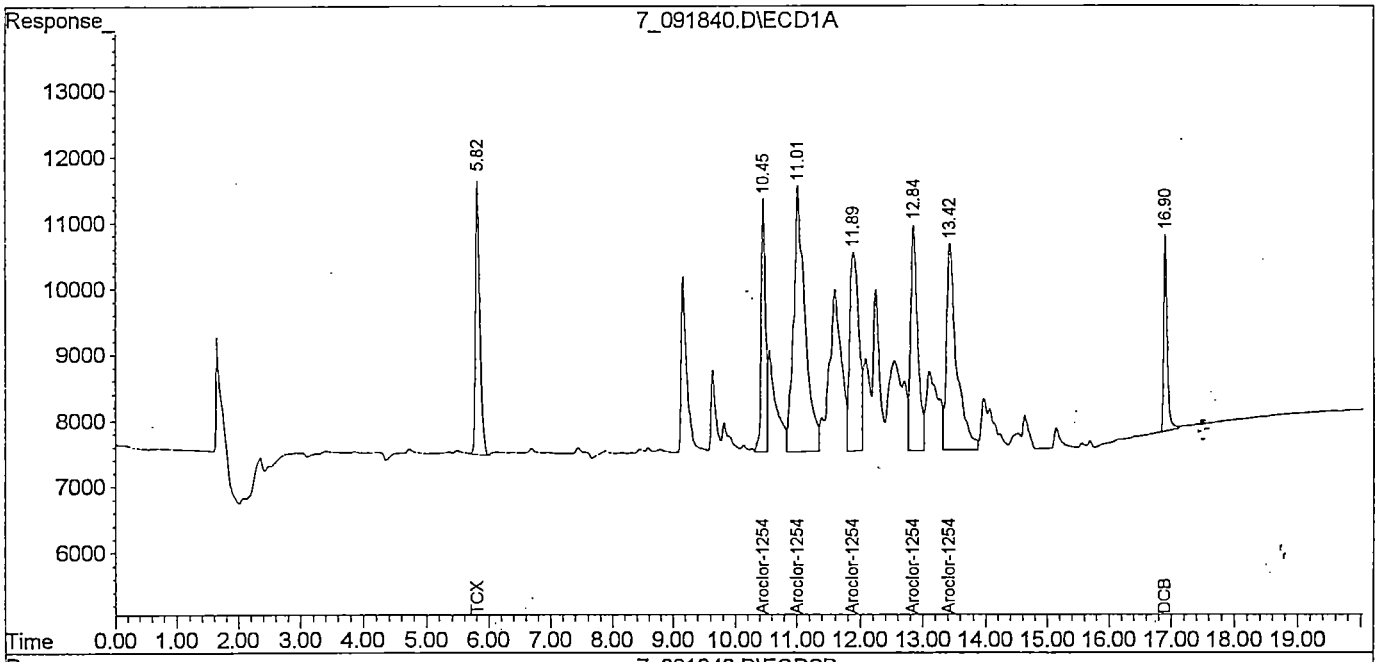
XPCBI18.M Wed Sep 19 08:32:18 2001

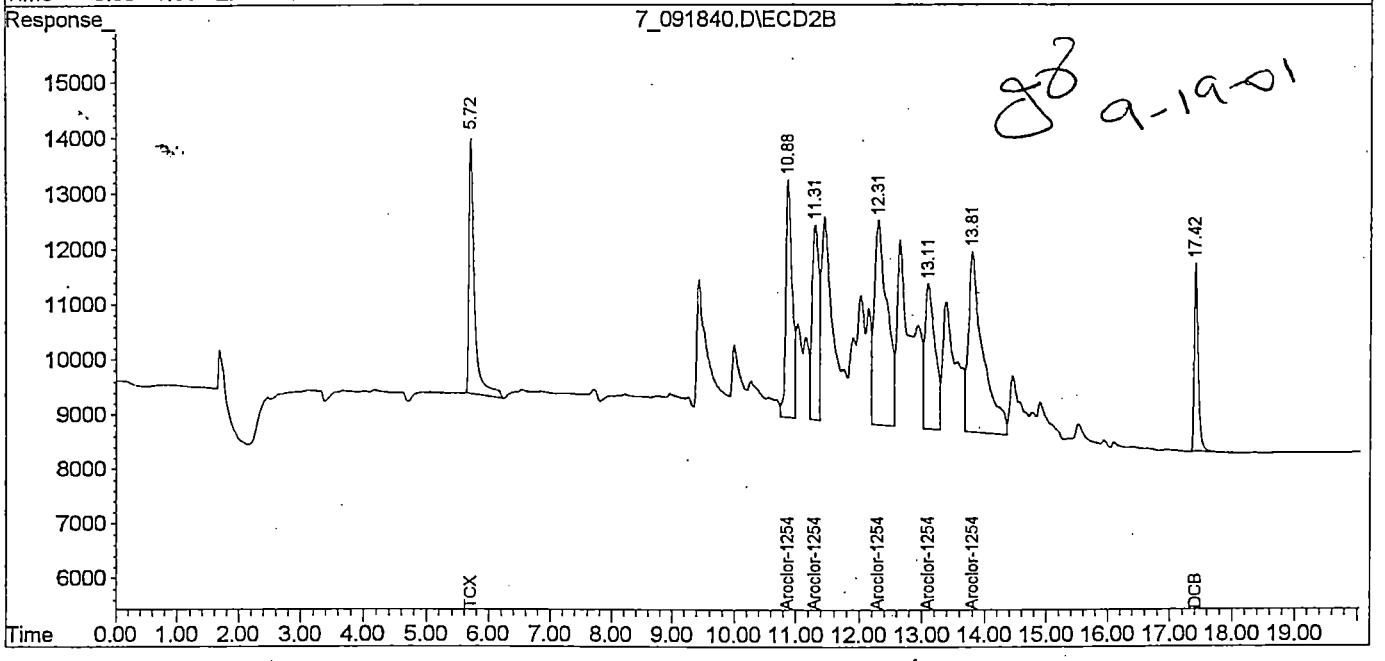
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091840.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091840.D\ECD2B.CH
Acq On : 18 Sep 2001 23:20 Operator: SA
Sample : AR1254L17H Inst : HP_07
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:26 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





gb 9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091840.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091840.D\ECD2B.CH
Acq On : 18 Sep 2001 23:20 Operator: SA
Sample : AR1254L17H Inst : HP_07
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:26 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.72f	197575	288320	4.791	5.096
22)	S DCB	16.90	17.42	117181	148003	4.855	5.311
	Target Compounds:						
12)	L6 Aroclor-1254	10.46	10.88	186219	303887	105.7	97.1
13)	L6 Aroclor-1254 {2}	11.01	11.31	506643	260450	109.8	100.3
14)	L6 Aroclor-1254 {3}	11.89	12.31	305605	533444	102.6	107.9
15)	L6 Aroclor-1254 {4}	12.84	13.11	265850	298535	113.5	123.5
16)	L6 Aroclor-1254 {5}	13.42	13.81	348703	540726	105.7	123.4
	Sum Aroclor-1254			1613019	1937042	537.4	552.3
	Average Aroclor-1254					107.476	110.464

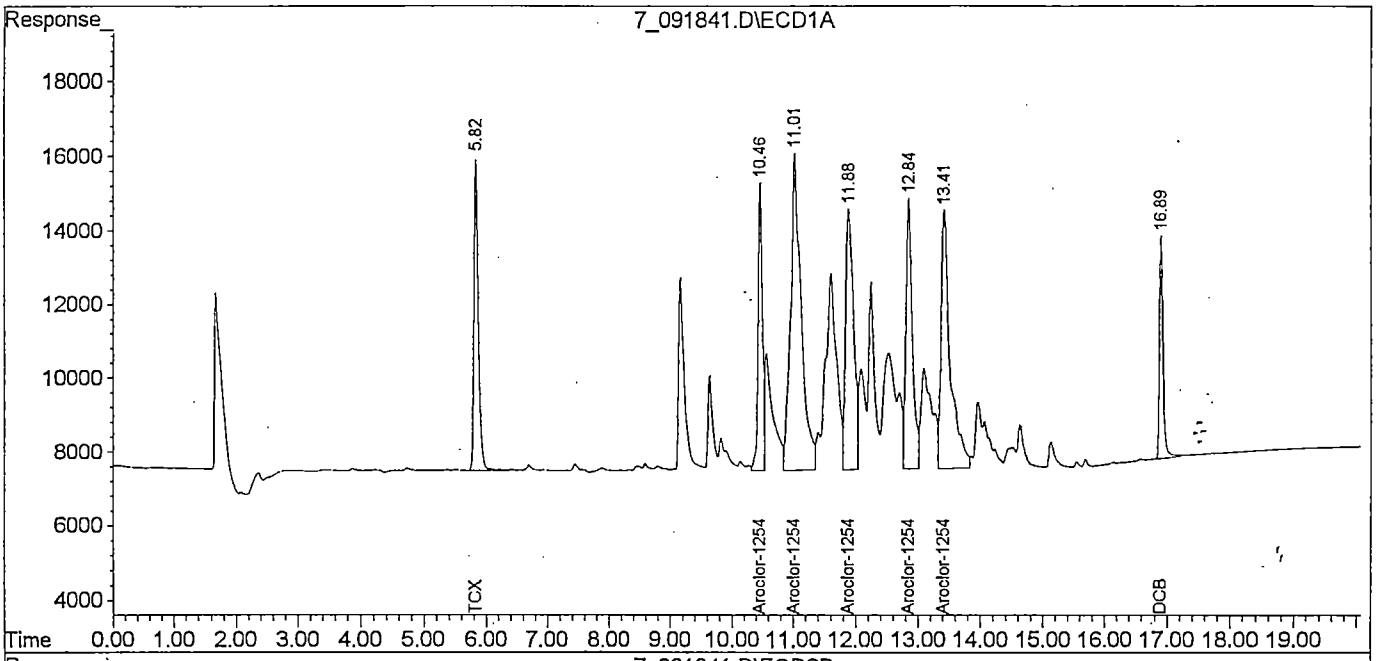
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

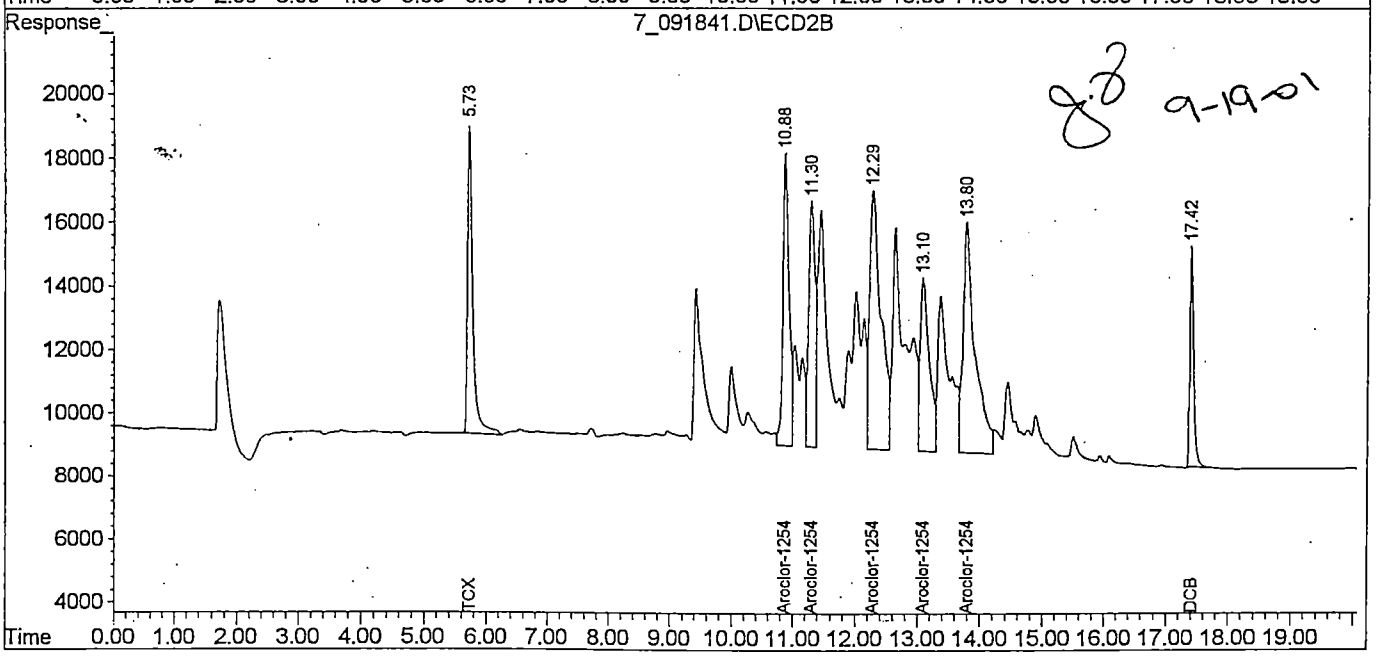
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091841.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091841.D\ECD2B.CH
Acq On : 18 Sep 2001 23:44 Operator: SA
Sample : AR1254L27H Inst : HP_07
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:27 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





gb 9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091841.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091841.D\ECD2B.CH
Acq On : 18 Sep 2001 23:44 Operator: SA
Sample : AR1254L27H Inst : HP_07
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:27 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	405673	573582	9.838	10.1
22)	S DCB	16.90	17.42	238050	299893	9.863	10.8
	Target Compounds:						
12)	L6 Aroclor-1254	10.46	10.88	381573	624609	216.6	199.6
13)	L6 Aroclor-1254 {2}	11.01	11.30	1025936	537270	222.4	207.0
14)	L6 Aroclor-1254 {3}	11.88	12.30	634505	1050478	213.1	212.5
15)	L6 Aroclor-1254 {4}	12.84	13.10	527721	557846	225.4	230.9
16)	L6 Aroclor-1254 {5}	13.41	13.80	710727	962784	215.4	219.8
	Sum Aroclor-1254			3280462	3732987	1092.9	1069.7
	Average Aroclor-1254					218.570	213.938

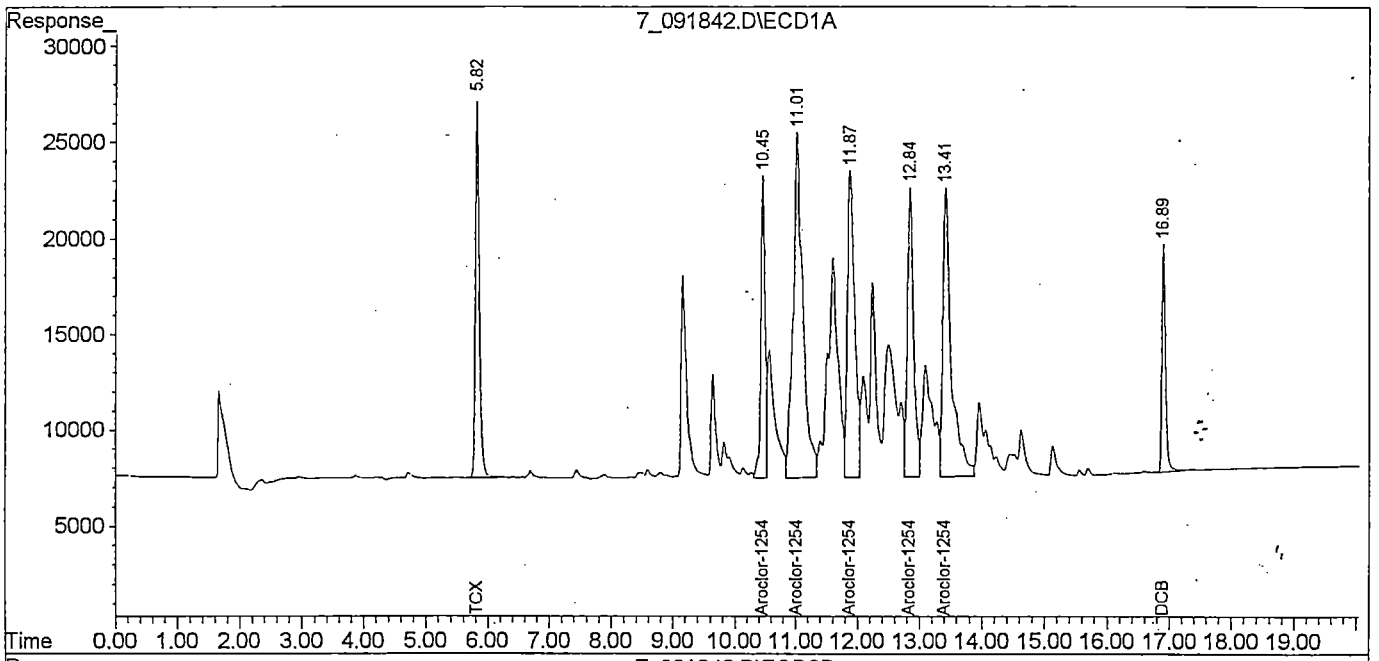
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

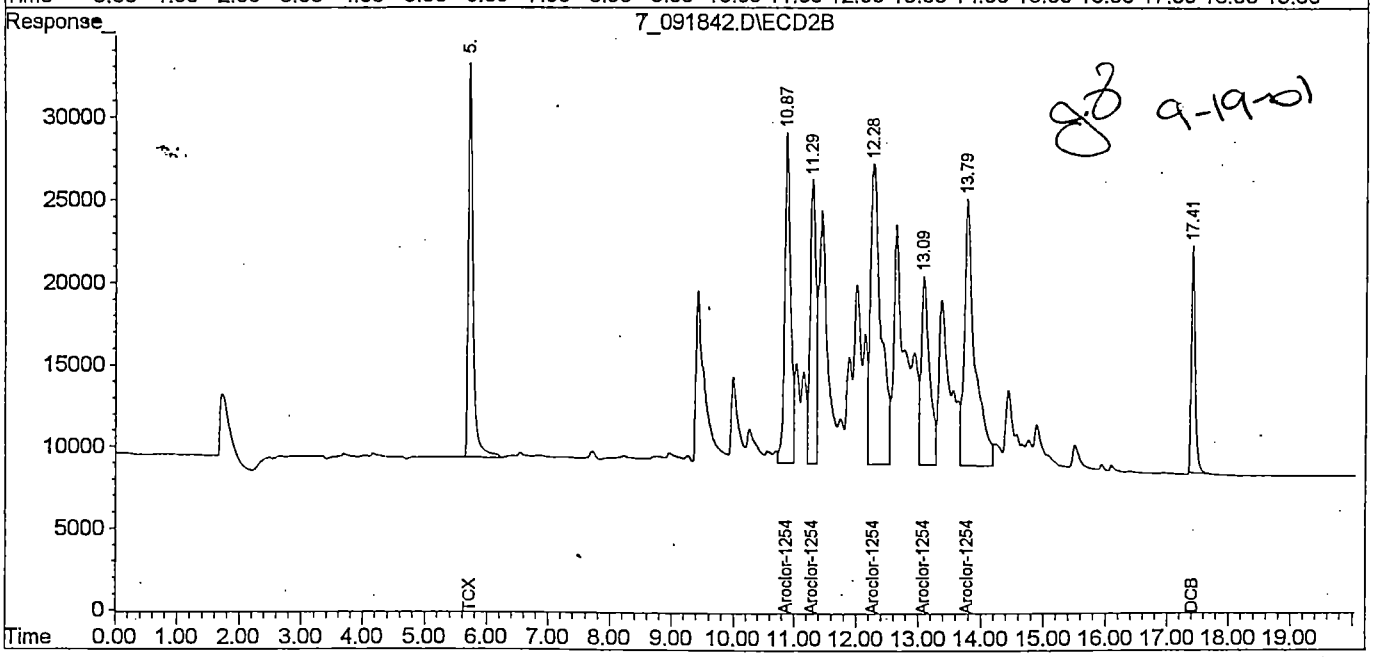
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091842.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091842.D\ECD2B.CH
Acq On : 19 Sep 2001 00:08 Operator: SA
Sample : AR1254L37H Inst : HP_07
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:28 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





gb 9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091842.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091842.D\ECD2B.CH
Acq On : 19 Sep 2001 00:08 Operator: SA
Sample : AR1254L37H Inst : HP_07
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:28 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.72	883295	1294177	21.4	22.9
22)	S DCB	16.90	17.42	473827	601866	19.6	21.6
	Target Compounds:						
12)	L6 Aroclor-1254	10.46	10.87	755402	1303927	428.9	416.7
13)	L6 Aroclor-1254 {2}	11.01	11.29	1984969	1114685	430.2	429.4
14)	L6 Aroclor-1254 {3}	11.87	12.28	1286385	2142306	432.0	433.3
15)	L6 Aroclor-1254 {4}	12.84	13.09	1012590	1076876	432.4	445.7
16)	L6 Aroclor-1254 {5}	13.41	13.79	1421473	1920713	430.8	438.4
	Sum Aroclor-1254			6460819	7558506	2154.3	2163.5
	Average Aroclor-1254					430.869	432.703

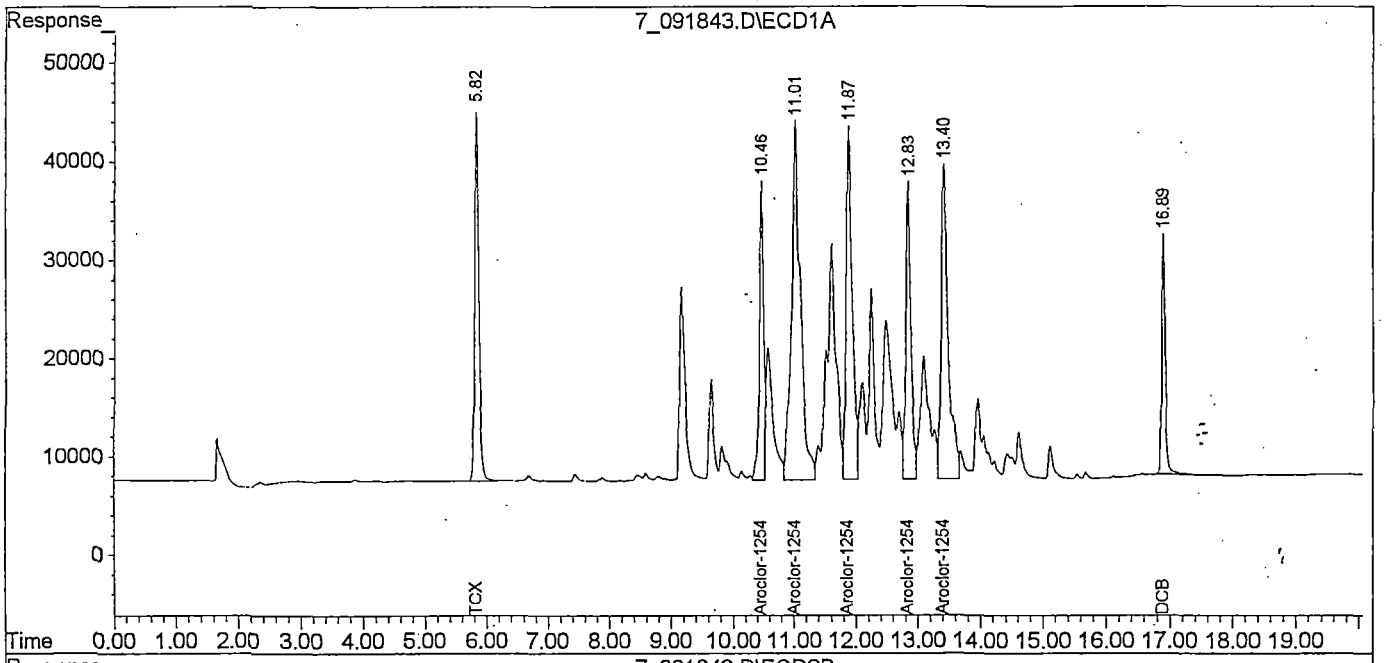
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

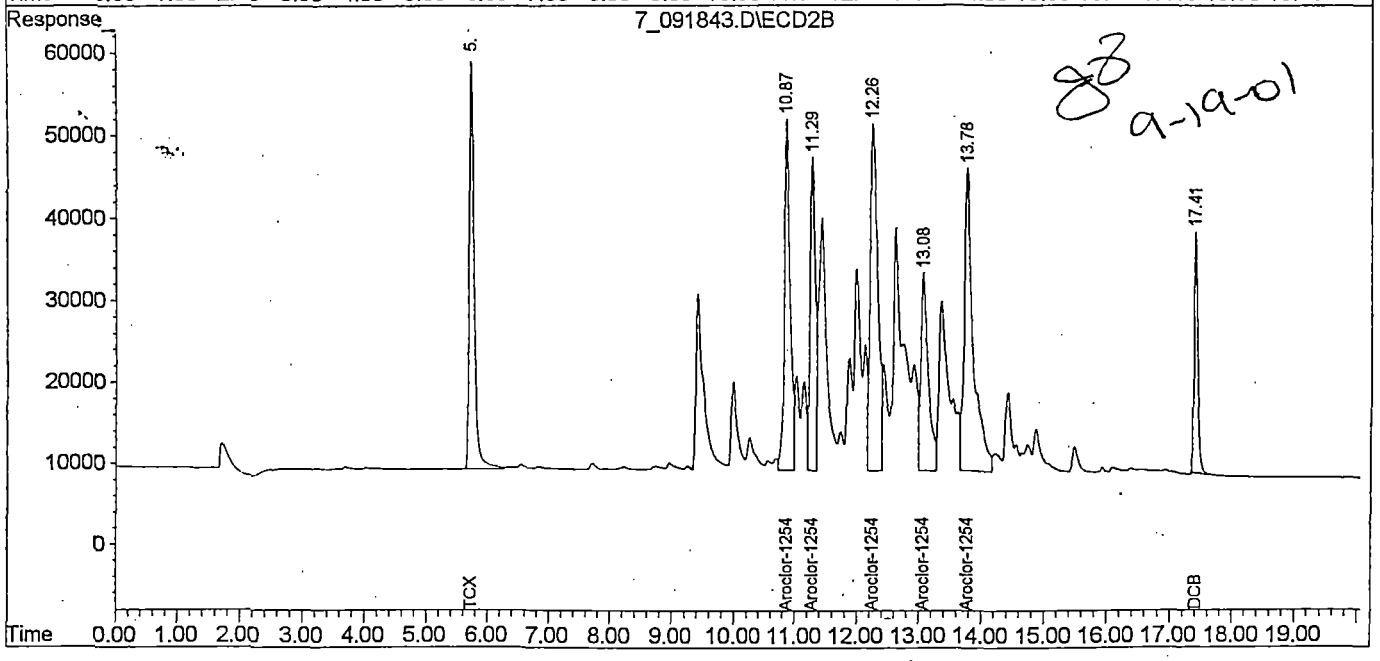
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091843.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091843.D\ECD2B.CH
Acq On : 19 Sep 2001 00:32 Operator: SA
Sample : AR1254L47H Inst : HP_07
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:28 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





8 9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091843.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091843.D\ECD2B.CH
Acq On : 19 Sep 2001 00:32 Operator: SA
Sample : AR1254L47H Inst : HP_07
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:28 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	1797007	2818600	43.6	49.8
22)	S DCB	16.89	17.41	943696	1197893	39.1	43.0
	Target Compounds:						
12)	L6 Aroclor-1254	10.46	10.87	1417735	2688161	804.9	859.1
13)	L6 Aroclor-1254 {2}	11.01	11.29	3693281	2279431	800.5	878.0
14)	L6 Aroclor-1254 {3}	11.87	12.26	2494678	3553288	837.7	718.7
15)	L6 Aroclor-1254 {4}	12.83	13.08	1836869	2005531	784.4	830.0
16)	L6 Aroclor-1254 {5}	13.40	13.78	2488092	3741551	754.1	854.1
	Sum Aroclor-1254			11930655	14267962	3981.7	4139.9
	Average Aroclor-1254					796.339	827.985

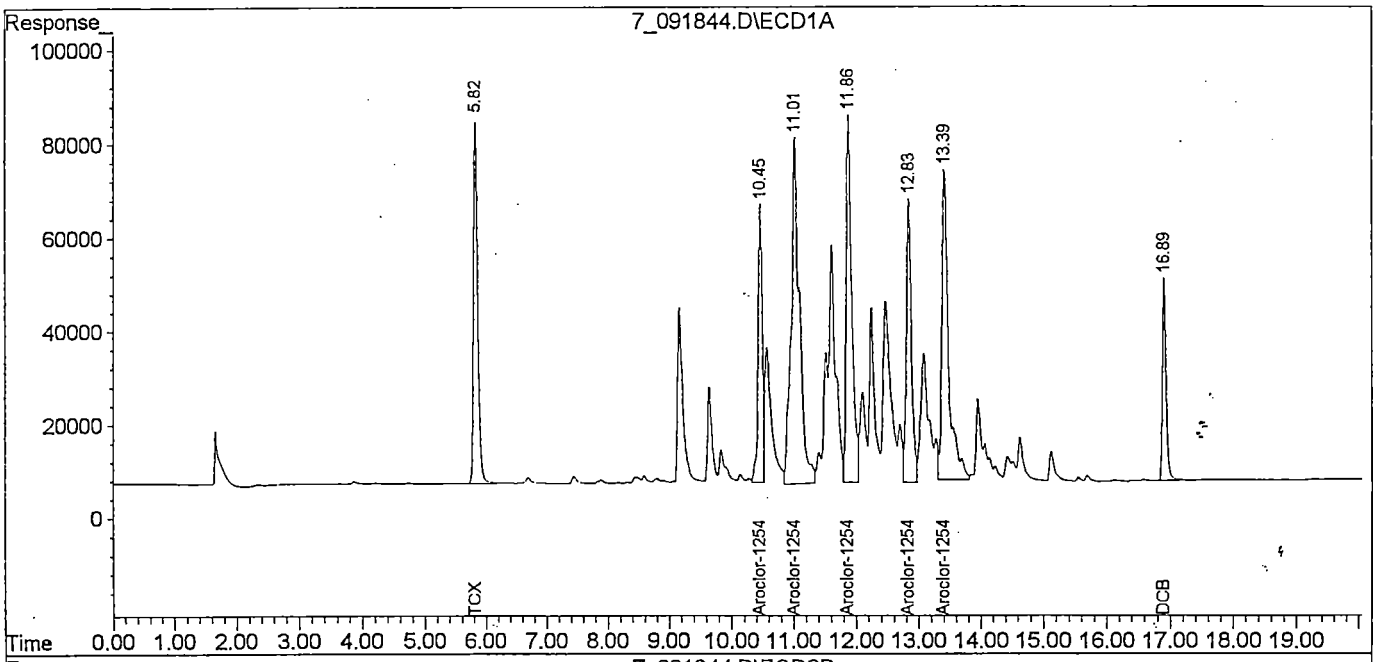
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

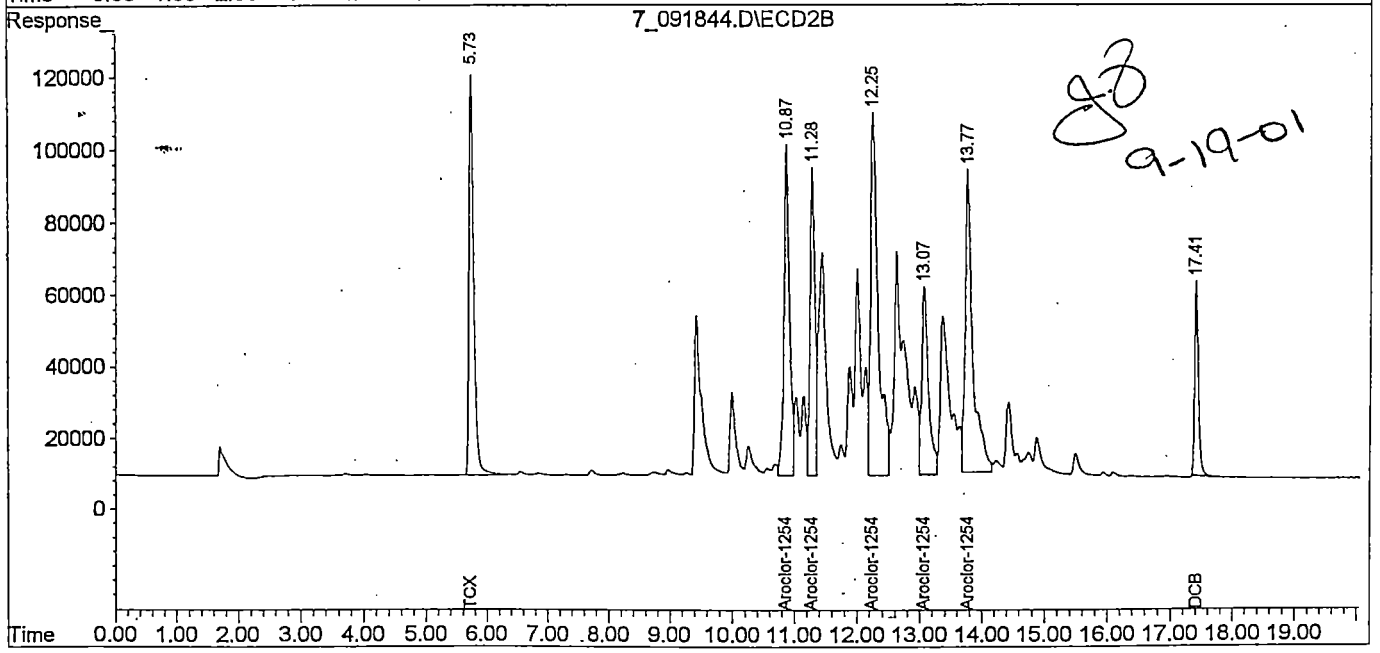
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091844.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091844.D\ECD2B.CH
Acq On : 19 Sep 2001 00:55 Operator: SA
Sample : AR1254L57H Inst : HP_07
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:30 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





gB 9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091844.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091844.D\ECD2B.CH
Acq On : 19 Sep 2001 00:55 Operator: SA
Sample : AR1254L57H Inst : HP_07
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:30 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_18_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

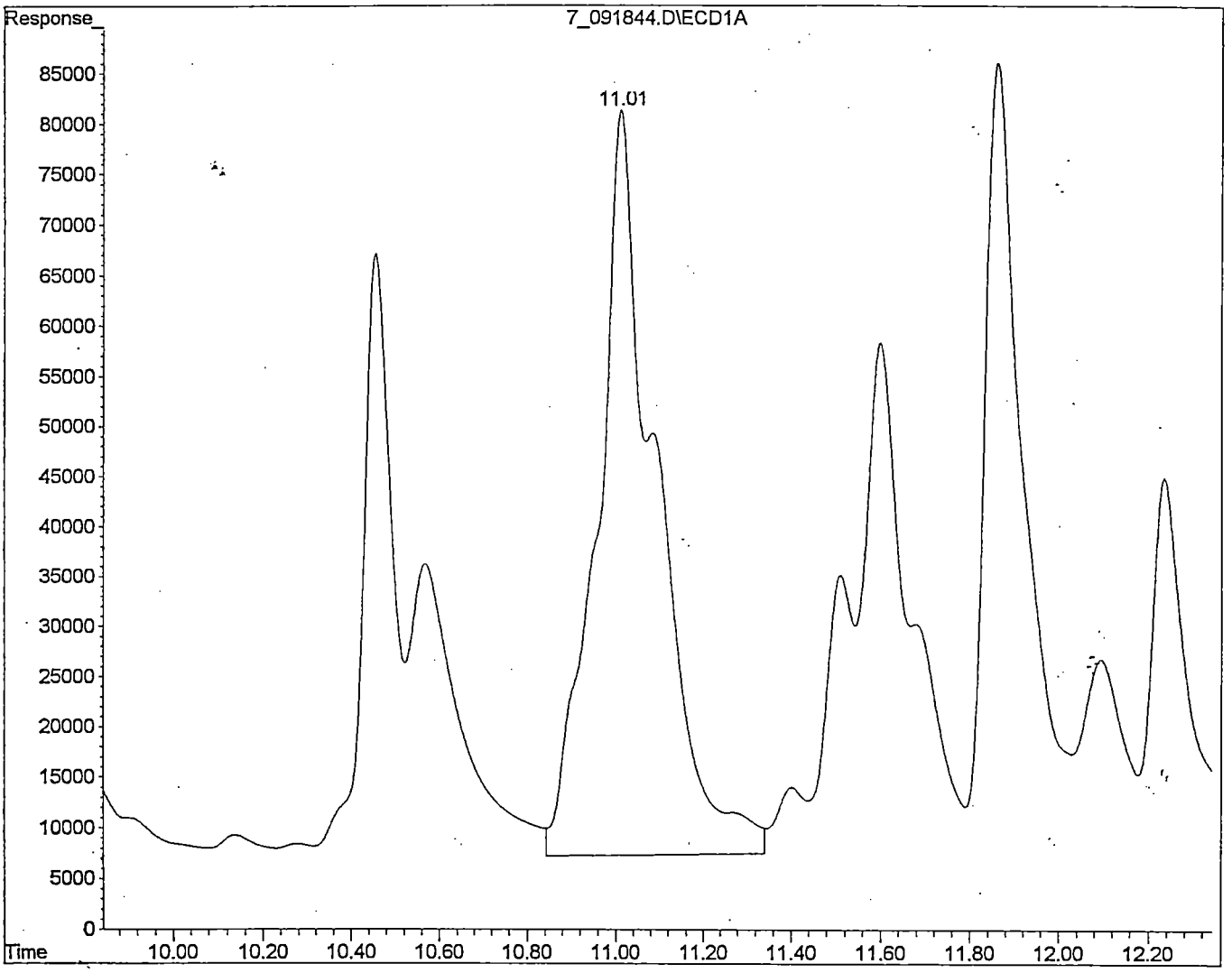
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	3691779	6313048	89.5	111.6
22)	S DCB	16.89	17.41	1722629	2264957	71.4	81.3
	Target Compounds:						
12)	L6 Aroclor-1254	10.46	10.87	2664643	5562686	1512.9 E	1777.8
13)	L6 Aroclor-1254 {2}	11.01	11.28	6934192	4676717	1502.9mE	1801.5
14)	L6 Aroclor-1254 {3}	11.86	12.25f	4821328	8660112	1619.0	1751.6mE
15)	L6 Aroclor-1254 {4}	12.83	13.07	3402287	3875949	1453.0	1604.0
16)	L6 Aroclor-1254 {5}	13.39	13.77	4996537	7249174	1514.4m	1654.7mE
	Sum Aroclor-1254			22818988	30024637	7602.2	8589.7
	Average Aroclor-1254					1520.434	1717.944

AS 9.19.9

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091844.D
Date Acquired: 19 Sep 2001 00:55
Inst: HP_07 Operator ID: SA
Name: AR1254L57H
Misc: 5-2-7
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 8:30 2001 Quant Results File: XPCBI18.RES



09-19-01

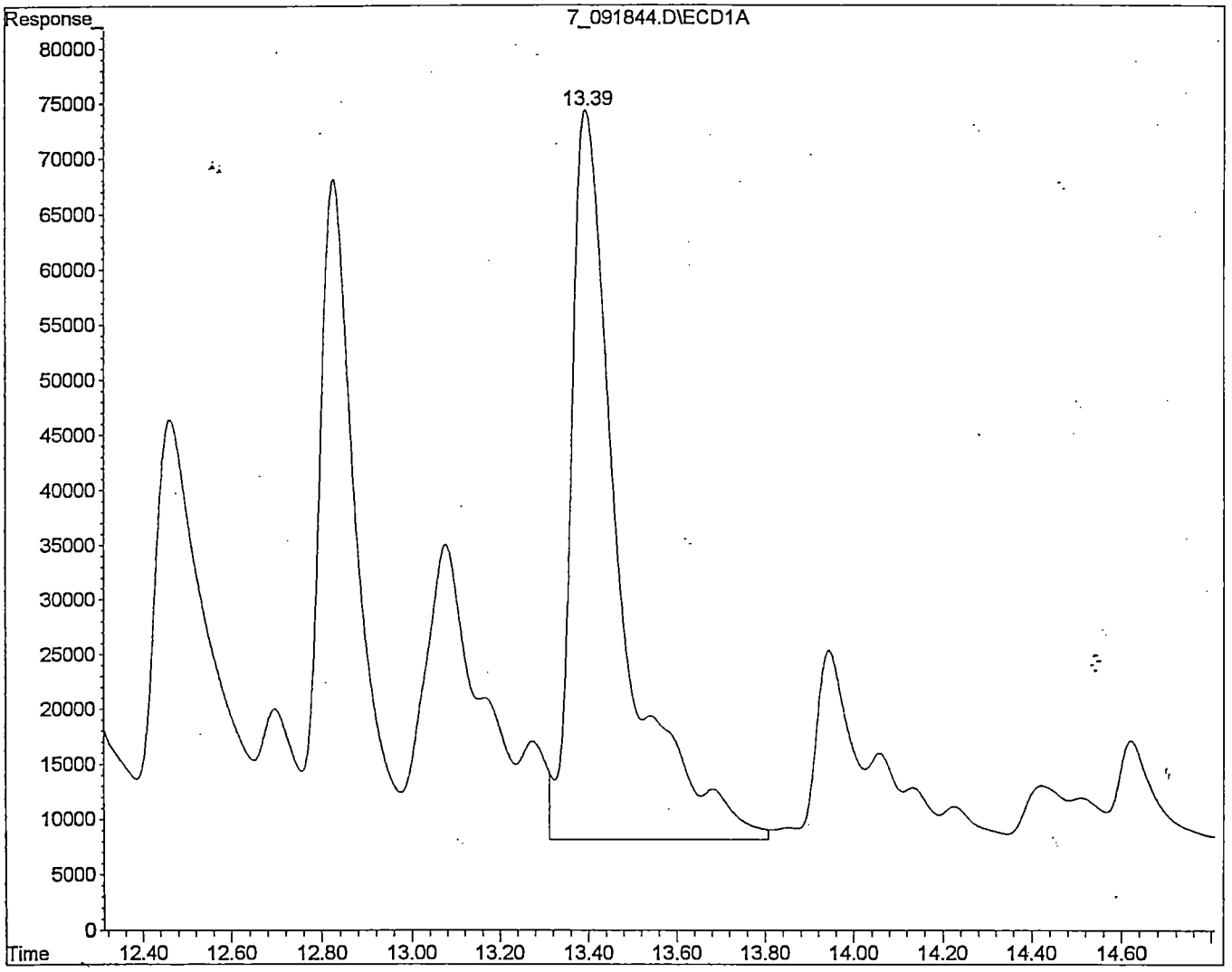
Aroclor-1254 {2} 11.01min area: 6934192 m

Integration Time Range: 10.84 - 11.34

F:\HPCHEM\HP\7\DATA\09_19_01\7_091844.D
Report generated: Wed Sep 19 08:56:26 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091844.D
Date Acquired: 19 Sep 2001 00:55
Inst: HP_07 Operator ID: SA
Name: AR1254L57H
Misc: 5-2-7
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 8:30 2001 Quant Results File: XPCBI18.RES



CA 9-19-01

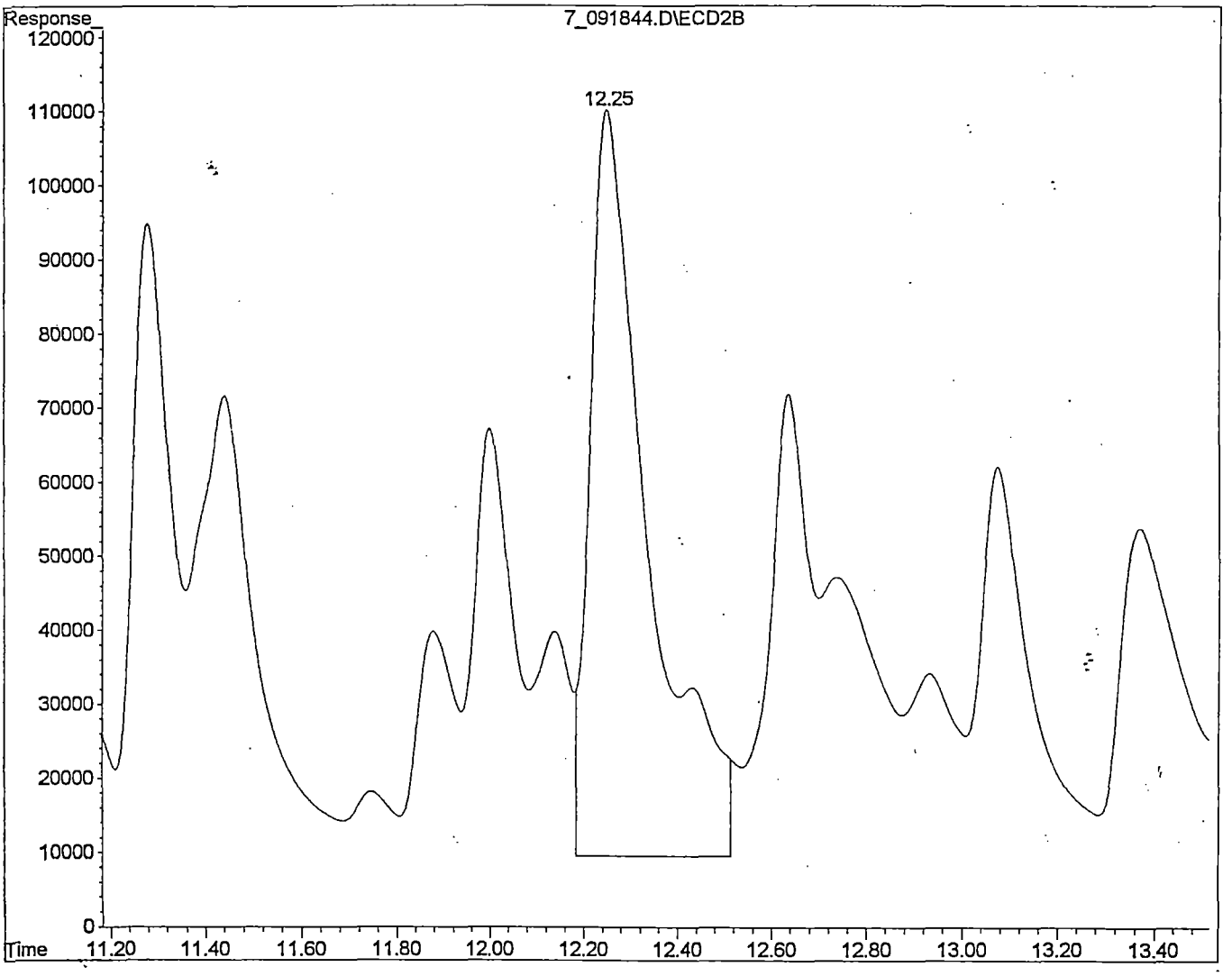
Aroclor-1254 {5} 13.39min area: 4996537 m

Integration Time Range: 13.31 - 13.81

F:\HPCHEM\HP\7\DATA\09_19_01\7_091844.D
Report generated: Wed Sep 19 08:56:27 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091844.D
Date Acquired: 19 Sep 2001 00:55
Inst: HP_07 Operator ID: SA
Name: AR1254L57H
Misc: 5-2-7
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 8:30 2001 Quant Results File: XPCBI18.RES



cd 9.19.01

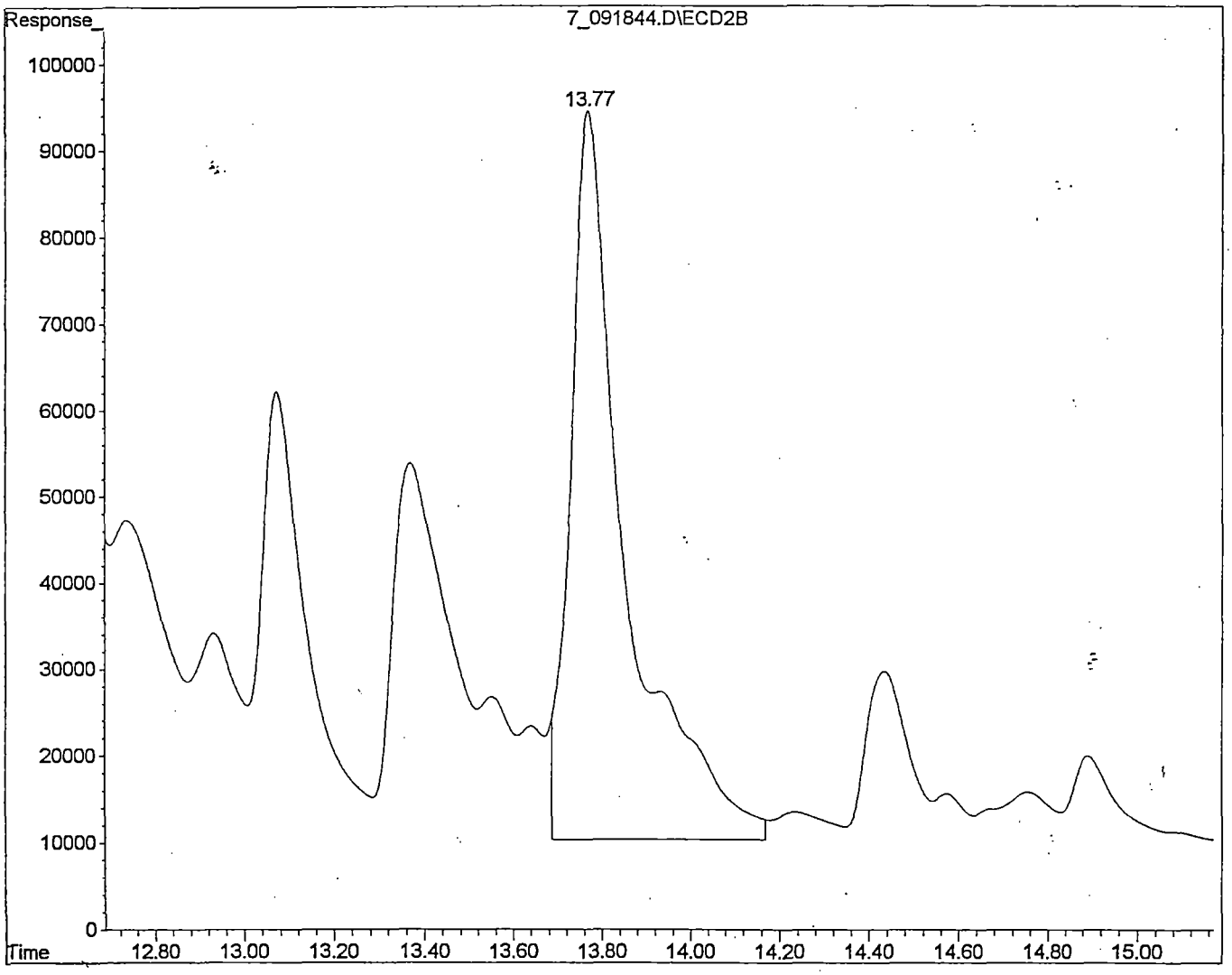
Aroclor-1254 {3} #2 12.25min area: 8660112 m

Integration Time Range: 12.18 - 12.51

F:\HPCHEM\HP\7\DATA\09_19_01\7_091844.D
Report generated: Wed Sep 19 08:56:28 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091844.D
Date Acquired: 19 Sep 2001 00:55
Inst: HP_07 Operator ID: SA
Name: AR1254L57H
Misc: 5-2-7
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 8:30 2001 Quant Results File: XPCBI18.RES



Aroclor-1254 {5} #2 13.77min area: 7249174 m

Integration Time Range: 13.69 - 14.17

F:\HPCHEM\HP\7\DATA\09_19_01\7_091844.D
Report generated: Wed Sep 19 08:56:28 2001

Continuing Calibration Report HP_07

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:13:13 2001
Response via : Initial Calibration

Continuing Calibration File: 7_091860.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	43.409	46.318	E3	-6.7	105
2	L1	Aroclor-1016	1.056	1.145	E3	-8.5	105
3	L1	Aroclor-1016 {2}	1.544	1.709	E3	-10.7	104
4	L1	Aroclor-1016 {3}	3.820	4.307	E3	-12.7	106
5	L1	Aroclor-1016 {4}	1.029	1.077	E3	-4.7	103
6	L1	Aroclor-1016 {5}	1.290	1.199	E3	7.1	99
17	L7	Aroclor-1260	2.645	2.857	E3	-8.0	104
18	L7	Aroclor-1260 {2}	4.405	4.844	E3	-10.0	105
19	L7	Aroclor-1260 {3}	3.519	4.000	E3	-13.7	106
20	L7	Aroclor-1260 {4}	1.625	1.800	E3	-10.7	104
21	L7	Aroclor-1260 {5}	3.668	3.932	E3	-7.2	103
22	S	DCB	22.100	24.267	E3	-9.8	106

Signal #2
Continuing Calibration File: 7_091860.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	60.093	62.367	E3	-3.8	106
2	L1	Aroclor-1016	1.422	1.525	E3	-7.2	111
3	L1	Aroclor-1016 {2}	2.146	2.336	E3	-8.9	105
4	L1	Aroclor-1016 {3}	1.440	1.587	E3	-10.2	104
5	L1	Aroclor-1016 {4}	2.443	2.293	E3	6.1	99
6	L1	Aroclor-1016 {5}	2.623	2.846	E3	-8.5	105
17	L7	Aroclor-1260	4.231	4.642	E3	-9.7	106
18	L7	Aroclor-1260 {2}	4.206	4.780	E3	-13.6	108
19	L7	Aroclor-1260 {3}	3.765	4.115	E3	-9.3	105
20	L7	Aroclor-1260 {4}	2.534	2.864	E3	-13.1	106
21	L7	Aroclor-1260 {5}	4.433	5.121	E3	-15.5#	109
22	S	DCB	29.202	32.060	E3	-9.8	107

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

7_091860.D XPCBI18.M Wed Sep 19 08:13:23 2001

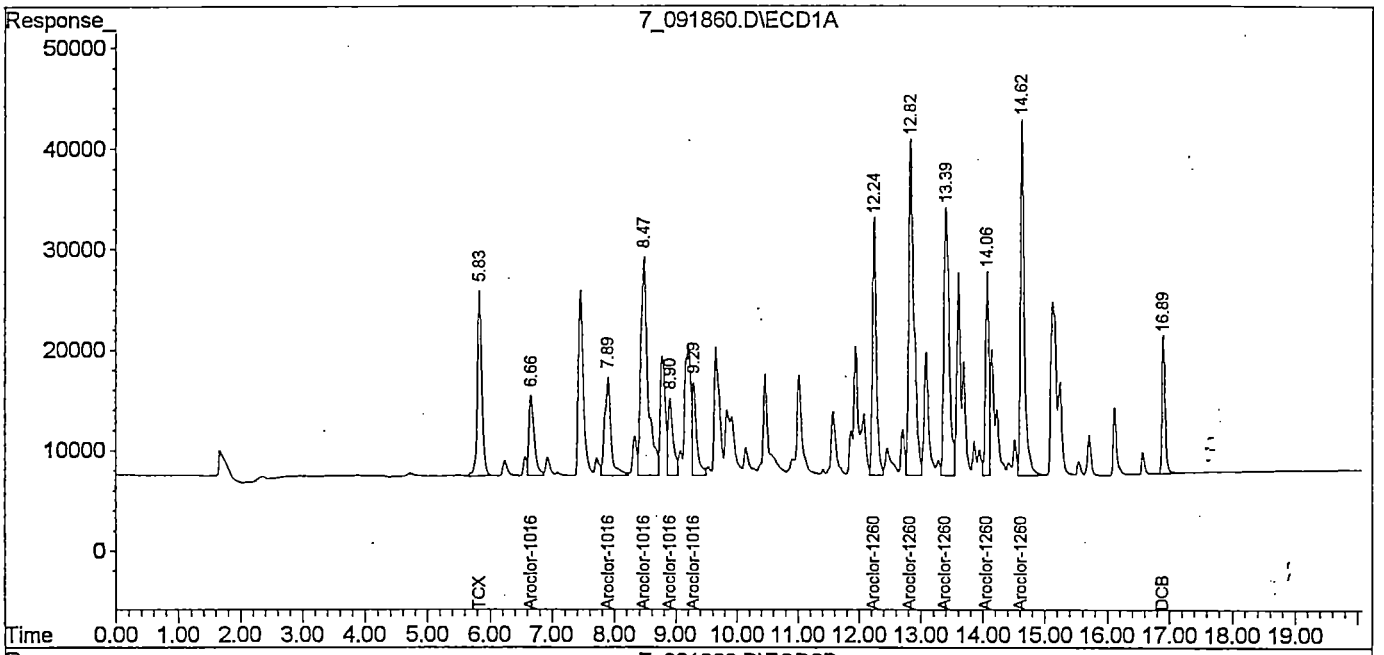
COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29602 SDG E0245
Signature Arnold M. Wyllie
Date 09/20/01

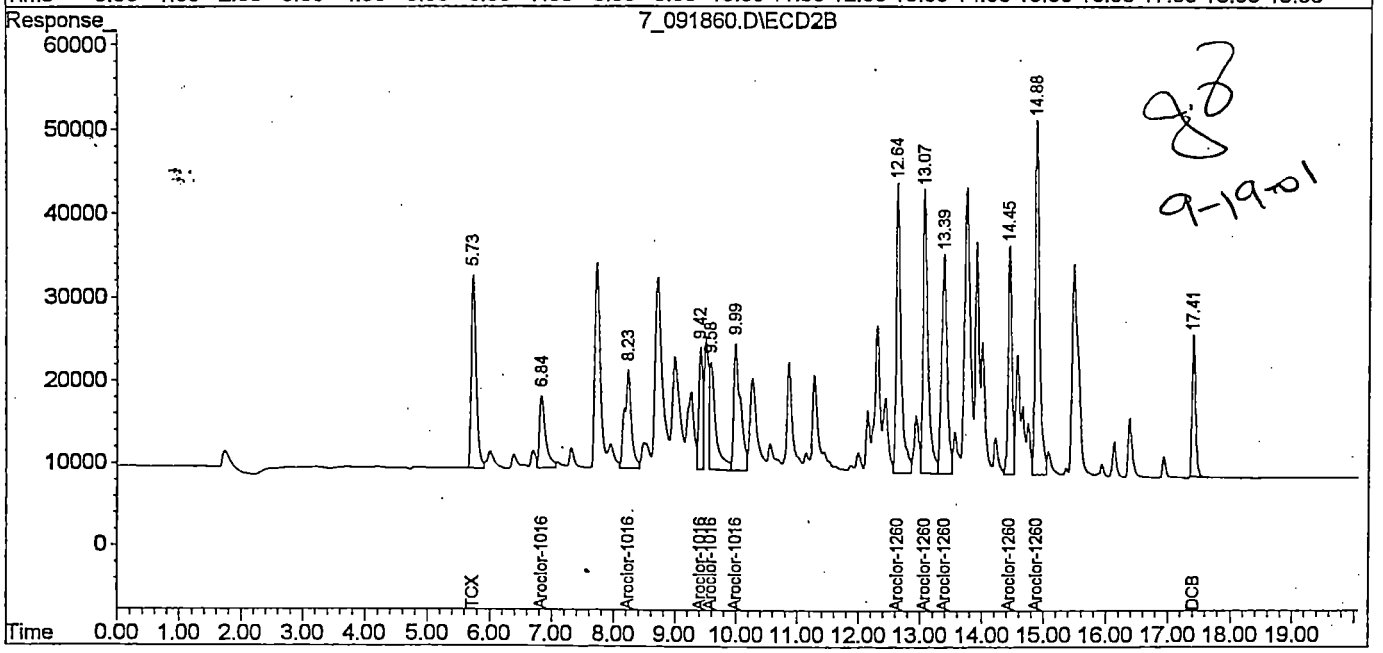
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091860.D\ECD1A.CH Vial: 35
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091860.D\ECD2B.CH
Acq On : 19 Sep 2001 7:19 Operator: SA
Sample : AR1660L37N Inst : HP_07
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 7:42 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





8
9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091860.D\ECD1A.CH Vial: 35
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091860.D\ECD2B.CH
Acq On : 19 Sep 2001 7:19 Operator: SA
Sample : AR1660L37N Inst : HP_07
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 7:42 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

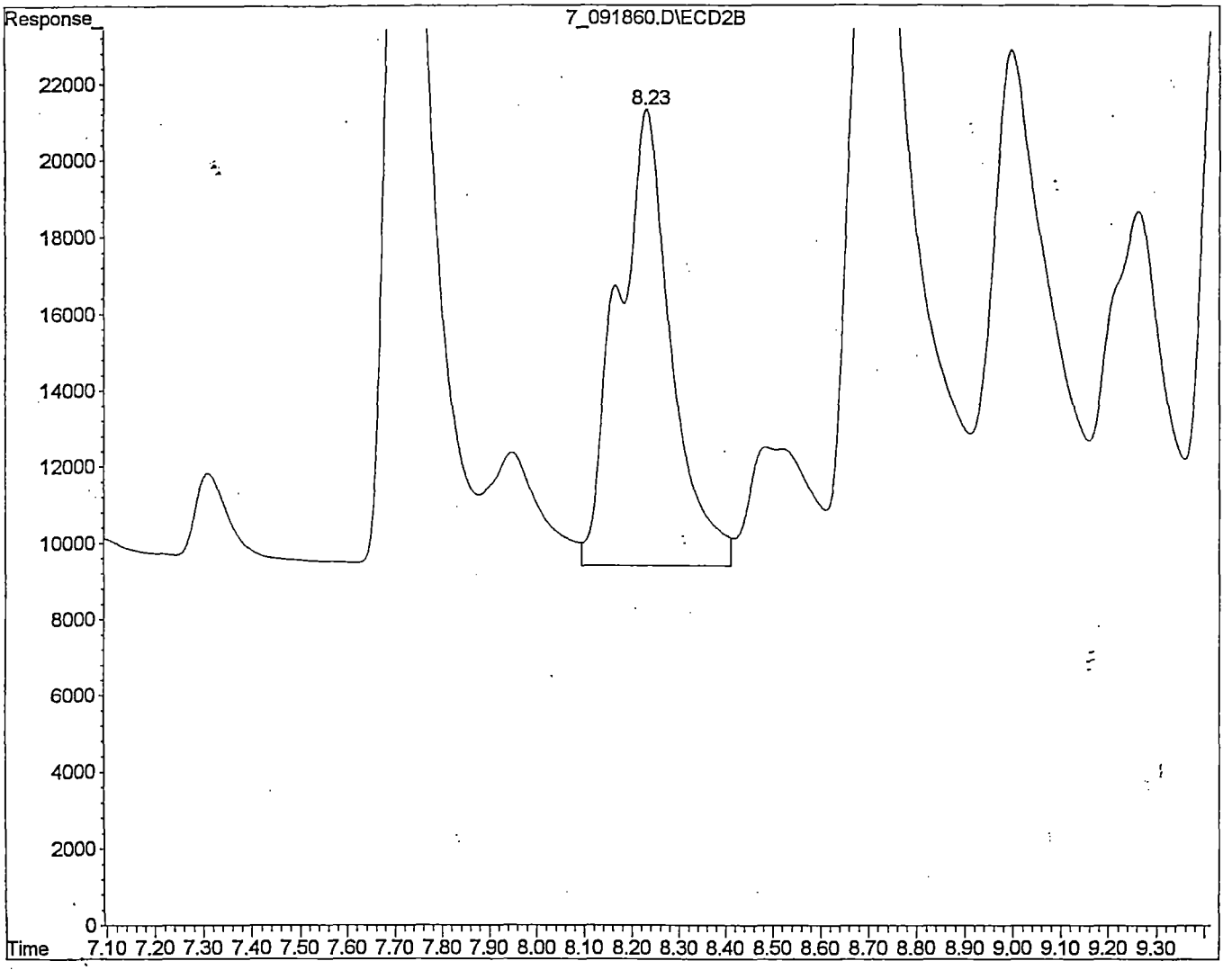
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.83	5.73	926357	1247337	22.5	22.0	
22)	S DCB	16.89	17.41	485348	641200	20.1	23.0	
	Target Compounds:							
2)	L1 Aroclor-1016	6.66	6.84	458114	610016	461.5	505.9	
3)	L1 Aroclor-1016 {2}	7.89	8.23	683525	934525	481.9	622.2m	#
4)	L1 Aroclor-1016 {3}	8.48	9.42	1722760	634771	601.2	515.3	
5)	L1 Aroclor-1016 {4}	8.90	9.58	430983	917109	460.2	418.2	
6)	L1 Aroclor-1016 {5}	9.29	9.99	479693	1138335	401.9	508.4	#
	Sum Aroclor-1016			3775075	4234756	2406.7	2570.0	
	Average Aroclor-1016					481.346	513.992	
17)	L7 Aroclor-1260	12.24	12.64	1142978	1856913	472.2	517.3	
18)	L7 Aroclor-1260 {2}	12.82	13.07	1937524	1911828	476.9	563.8	
19)	L7 Aroclor-1260 {3}	13.39	13.40	1599928	1645887	492.7	530.3	
20)	L7 Aroclor-1260 {4}	14.06	14.45	719873	1145793	474.4	554.5	
21)	L7 Aroclor-1260 {5}	14.62	14.88	1572931	2048423	437.1	579.6	#
	Sum Aroclor-1260			6973233	8608844	2353.4	2745.5	
	Average Aroclor-1260					470.671	549.097	

cd 9.19.01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091860.D
Date Acquired: 19 Sep 2001 7:19
Inst: HP_07 Operator ID: SA
Name: AR1660L37N
Misc: 5-128-7
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 7:42 2001 Quant Results File: XPCBI18.RES



Aroclor-1016 {2} #2 8.23min area: 934525 m

Integration Time Range: 8.10 - 8.41

F:\HPCHEM\HP\7\DATA\09_19_01\7_091860.D
Report generated: Wed Sep 19 08:59:32 2001

Continuing Calibration Report HP_07

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Thu Sep 20 06:50:55 2001
Response via : Initial Calibration

Continuing Calibration File: 7_091875.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	43.409	41.876	E3	3.5	95
2	L1	Aroclor-1016	1.056	1.063	E3	-0.6	97
3	L1	Aroclor-1016 {2}	1.544	1.463	E3	5.2	89
4	L1	Aroclor-1016 {3}	3.820	3.939	E3	-3.1	97
5	L1	Aroclor-1016 {4}	1.029	1.024	E3	0.6	97
6	L1	Aroclor-1016 {5}	1.290	1.207	E3	6.4	99
17	L7	Aroclor-1260	2.645	2.702	E3	-2.2	98
18	L7	Aroclor-1260 {2}	4.405	4.554	E3	-3.4	99
19	L7	Aroclor-1260 {3}	3.519	3.693	E3	-5.0	97
20	L7	Aroclor-1260 {4}	1.625	1.663	E3	-2.3	97
21	L7	Aroclor-1260 {5}	3.668	3.598	E3	1.9	94
22	S	DCB	22.100	19.612	E3	11.3	85

Signal #2
Continuing Calibration File: 7_091875.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	60.093	56.469	E3	6.0	96
2	L1	Aroclor-1016	1.422	1.536	E3	-8.0	111
3	L1	Aroclor-1016 {2}	2.146	2.139	E3	0.3	97
4	L1	Aroclor-1016 {3}	1.440	1.417	E3	1.6	92
5	L1	Aroclor-1016 {4}	2.443	2.201	E3	9.9	95
6	L1	Aroclor-1016 {5}	2.623	2.633	E3	-0.4	97
17	L7	Aroclor-1260	4.231	4.343	E3	-2.7	99
18	L7	Aroclor-1260 {2}	4.206	4.441	E3	-5.6	100
19	L7	Aroclor-1260 {3}	3.765	3.764	E3	0.0	96
20	L7	Aroclor-1260 {4}	2.534	2.577	E3	-1.7	96
21	L7	Aroclor-1260 {5}	4.433	4.516	E3	-1.9	96
22	S	DCB	29.202	26.865	E3	8.0	90

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

7_091875.D XPCBI18.M Thu Sep 20 06:51:06 2001

COPY

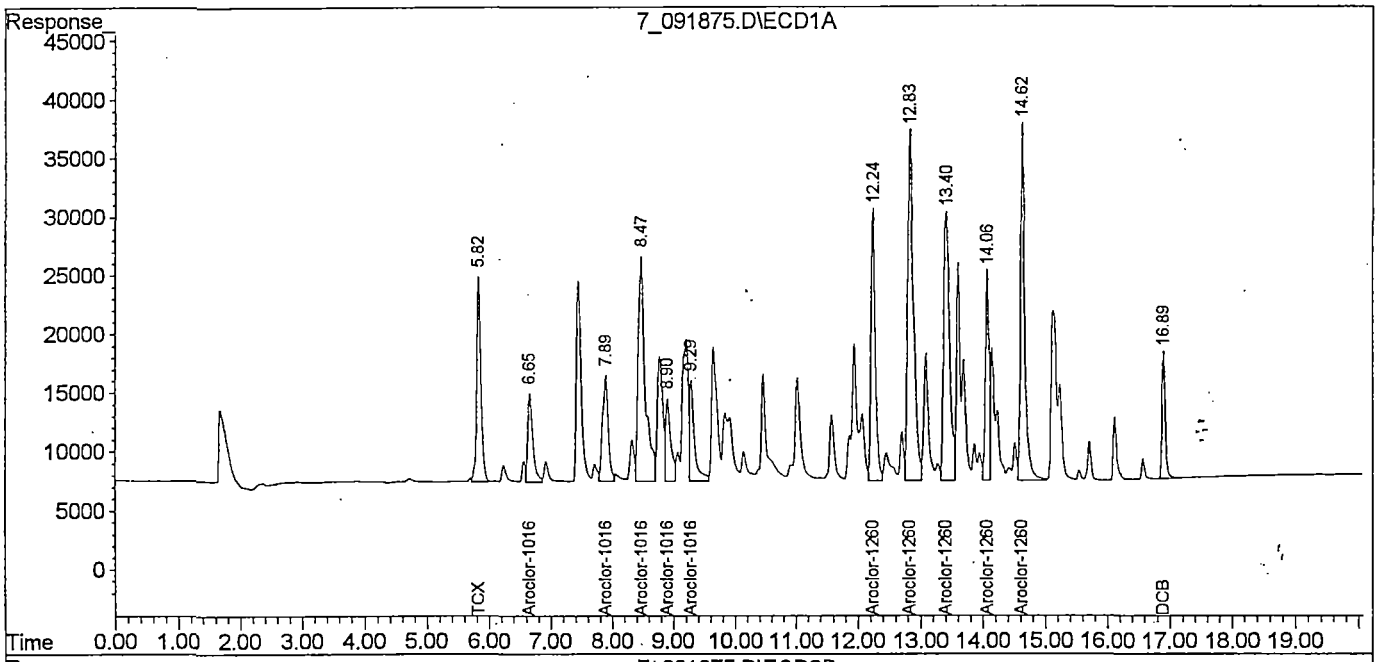
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29602 SDG E0ZM5
Signature [illegible]
Date 09/22/01

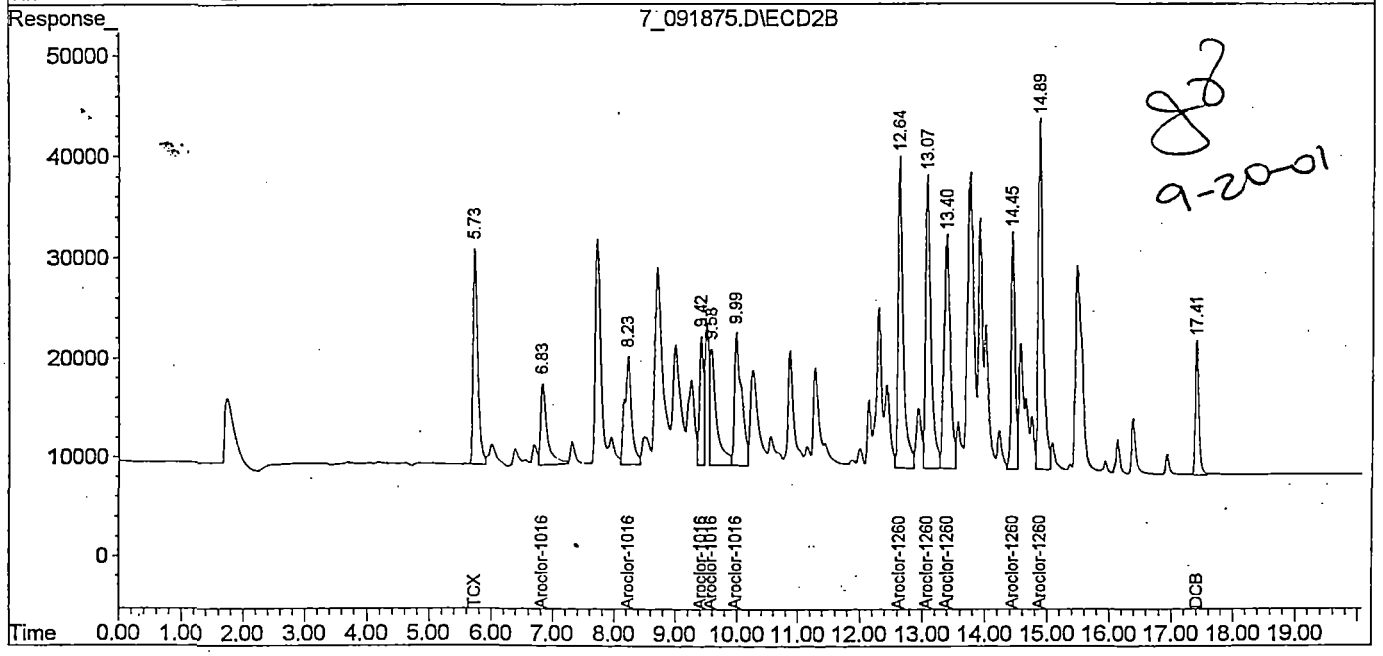
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091875.D\ECD1A.CH Vial: 48
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091875.D\ECD2B.CH
Acq On : 19 Sep 2001 14:29 Operator: SA
Sample : AR1660L37P Inst : HP_07
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 15:17 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





9-20-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091875.D\ECD1A.CH Vial: 48
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091875.D\ECD2B.CH
Acq On : 19 Sep 2001 14:29 Operator: SA
Sample : AR1660L37P Inst : HP_07
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 15:17 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

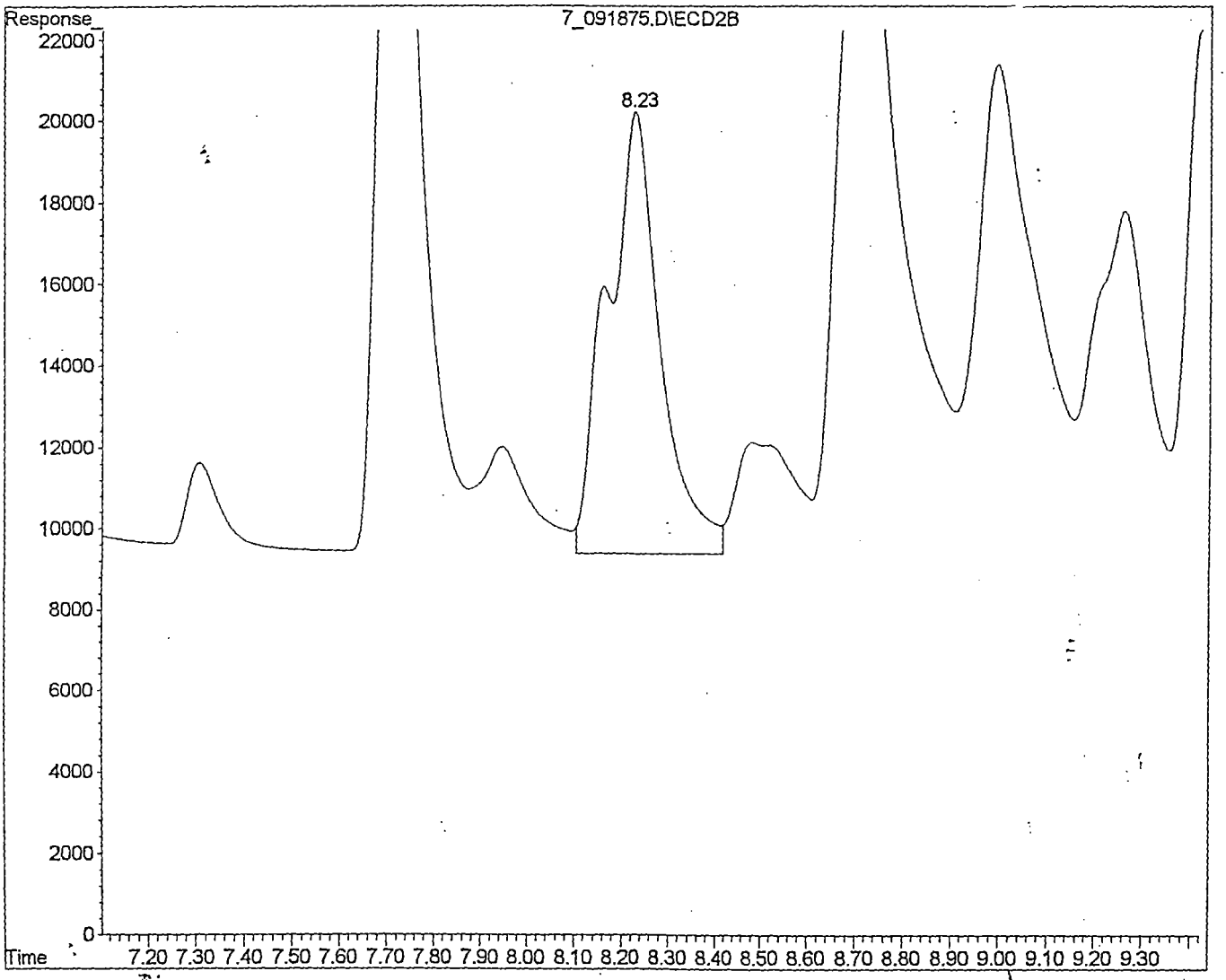
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	837520	1129382	19.4	17.2
22)	S DCB	16.89	17.41	392239	537306	16.9	18.2m
	Target Compounds:						
2)	L1 Aroclor-1016	6.66	6.83	425143	614485	402.6	432.0
3)	L1 Aroclor-1016 {2}	7.89	8.23	585199	855480	379.0	398.6m
4)	L1 Aroclor-1016 {3}	8.47	9.42	1575436	566856	412.4	393.7
5)	L1 Aroclor-1016 {4}	8.90	9.58	409430	880478	397.7	360.4
6)	L1 Aroclor-1016 {5}	9.29	9.99	482912	1053335	374.3	401.6
	Sum Aroclor-1016			3478121	3970633	1966.1	1986.3
	Average Aroclor-1016					393.218	397.268
7)	L7 Aroclor-1260	12.24	12.64	1080951	1737310	408.6	410.6
8)	L7 Aroclor-1260 {2}	12.83	13.08	1821766	1776588	413.6	422.4
9)	L7 Aroclor-1260 {3}	13.40	13.40	1477229	1505726	419.8	399.9
10)	L7 Aroclor-1260 {4}	14.06	14.45	665193	1030748	409.3	406.8
11)	L7 Aroclor-1260 {5}	14.62	14.89	1439027	1806350	392.3	407.5
	Sum Aroclor-1260			6484167	7856722	2043.6	2047.2
	Average Aroclor-1260					408.720	409.450

SA 9.19.01

RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int
> Highest cal. std. (d)=compound deleted (H) Di
875.D XPCBI18.M Wed Sep 19 15:18:46

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091875.D
Date Acquired: 19 Sep 2001 14:29
Inst: HP_07 Operator ID: SA
Name: AR1660L37P
Misc: 5-128-7
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 15:17 2001 Quant Results File: XPCBI18.RES



09.19.1

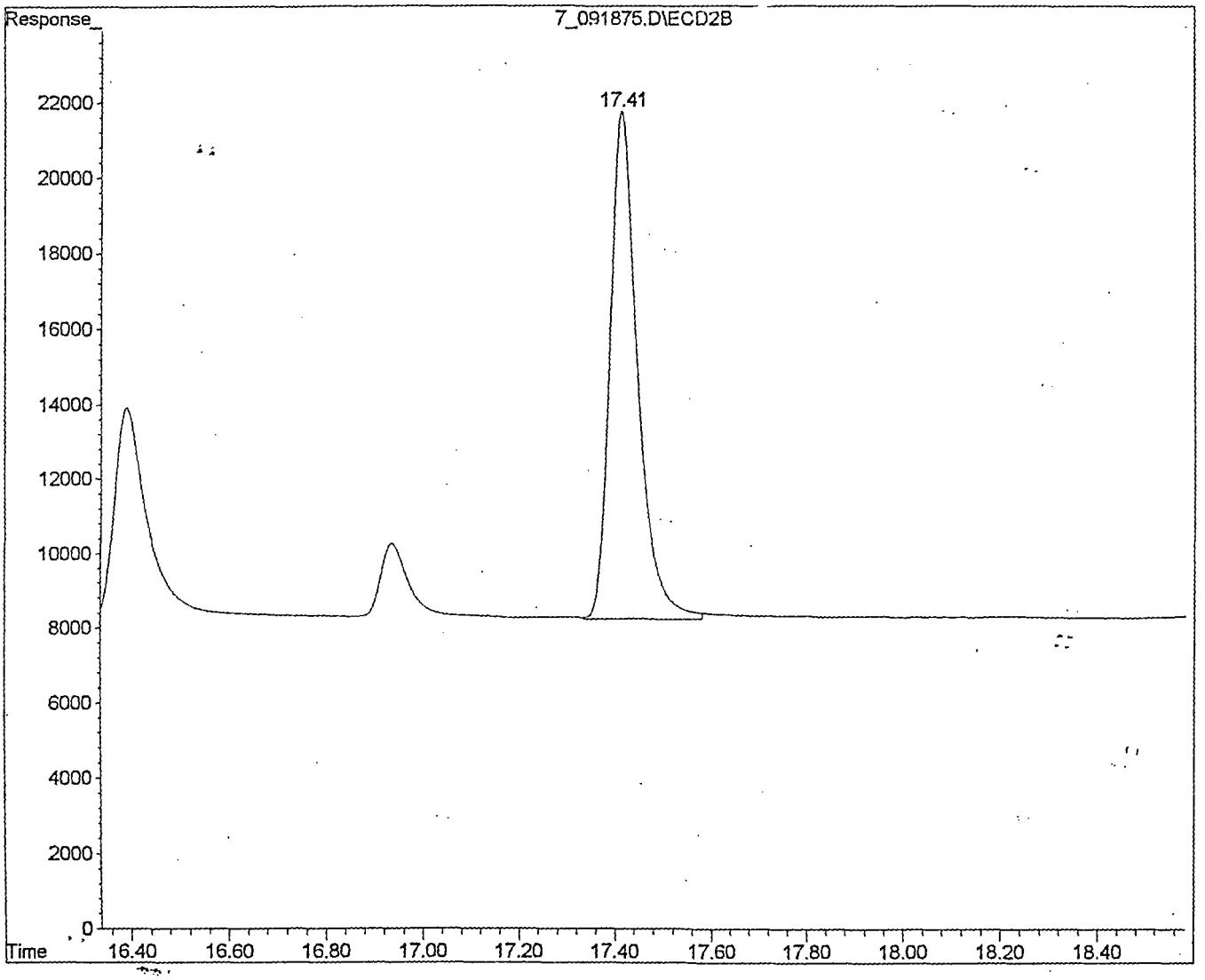
Aroclor-1016 {2} #2 8.23min area: 855480 m

Integration Time Range: 8.10 - 8.42

F:\HPCHEM\HP\7\DATA\09_19_01\7_091875.D
Report generated: Wed Sep 19 15:19:08 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091875.D
Date Acquired: 19 Sep 2001 14:29
Inst: HP_07 Operator ID: SA
Name: AR1660L37P
Misc: 5-128-7
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 15:17 2001 Quant Results File: XPCBI18.RES



09.19.01

DCB #2 17.41min area: 537306 m

Integration Time Range: 17.34 - 17.58

Continuing Calibration Report HP_07

Method : F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Thu Sep 20 09:44:11 2001
Response via : Initial Calibration

Continuing Calibration File: 7_092005.D

OK 9-22-01

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	43.409	44.971	E3	-3.6	102
2	L1	Aroclor-1016	1.056	1.090	E3	-3.2	100
3	L1	Aroclor-1016 {2}	1.544	1.470	E3	4.8	90
4	L1	Aroclor-1016 {3}	3.820	3.866	E3	-1.2	95
5	L1	Aroclor-1016 {4}	1.029	0.999	E3	2.9	95
6	L1	Aroclor-1016 {5}	1.290	1.222	E3	5.3	101
17	L7	Aroclor-1260	2.645	2.564	E3	3.1	93
18	L7	Aroclor-1260 {2}	4.405	4.275	E3	3.0	92
19	L7	Aroclor-1260 {3}	3.519	3.424	E3	2.7	90
20	L7	Aroclor-1260 {4}	1.625	1.561	E3	4.0	91
21	L7	Aroclor-1260 {5}	3.668	3.463	E3	5.6	91
22	S	DCB	22.100	20.066	E3	9.2	87

Signal #2
Continuing Calibration File: 7_092005.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	60.093	60.391	E3	-0.5	103
2	L1	Aroclor-1016	1.422	1.439	E3	-1.2	104
3	L1	Aroclor-1016 {2}	2.146	2.083	E3	2.9	94
4	L1	Aroclor-1016 {3}	1.440	1.406	E3	2.3	92
5	L1	Aroclor-1016 {4}	2.443	2.142	E3	12.3	92
6	L1	Aroclor-1016 {5}	2.623	2.474	E3	5.7	91
17	L7	Aroclor-1260	4.231	3.914	E3	7.5	89
18	L7	Aroclor-1260 {2}	4.206	3.833	E3	8.9	86
19	L7	Aroclor-1260 {3}	3.765	3.391	E3	9.9	87
20	L7	Aroclor-1260 {4}	2.534	2.260	E3	10.8	84
21	L7	Aroclor-1260 {5}	4.433	3.785	E3	14.6	80
22	S	DCB	29.202	24.616	E3	15.7#	82

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

7_092005.D XPCBI18.M Thu Sep 20 09:44:23 2001

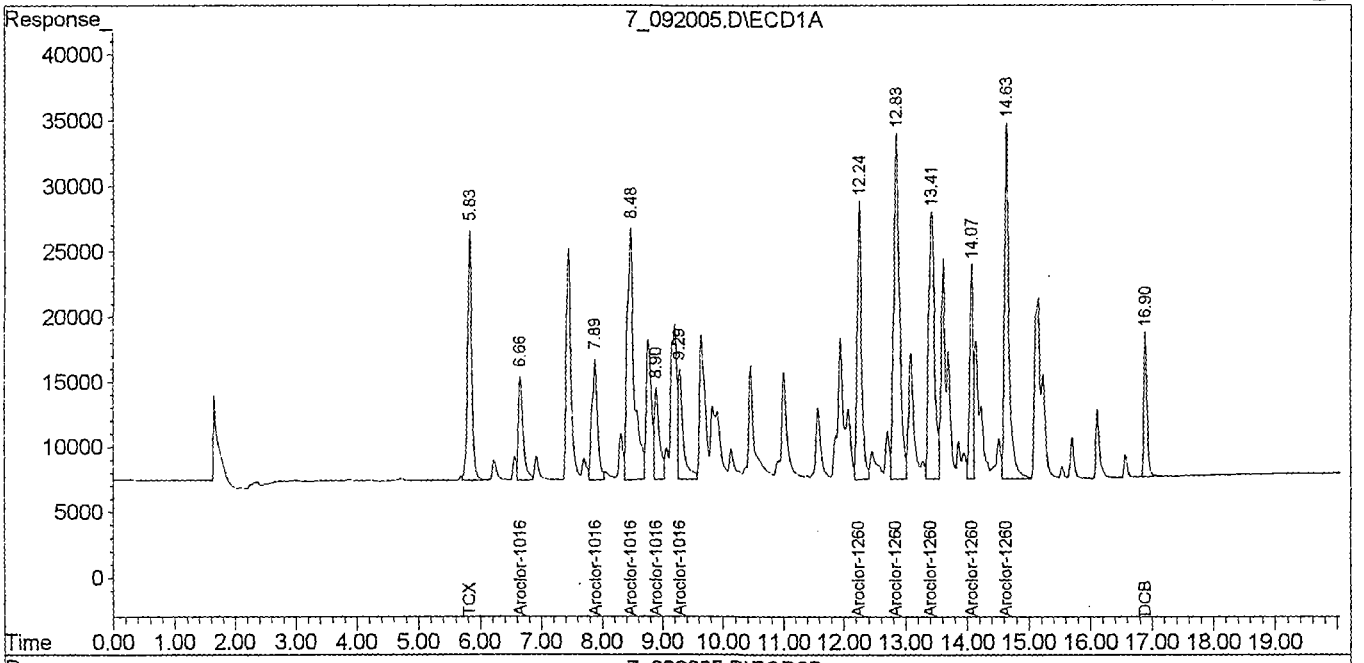
Chromatographic Report

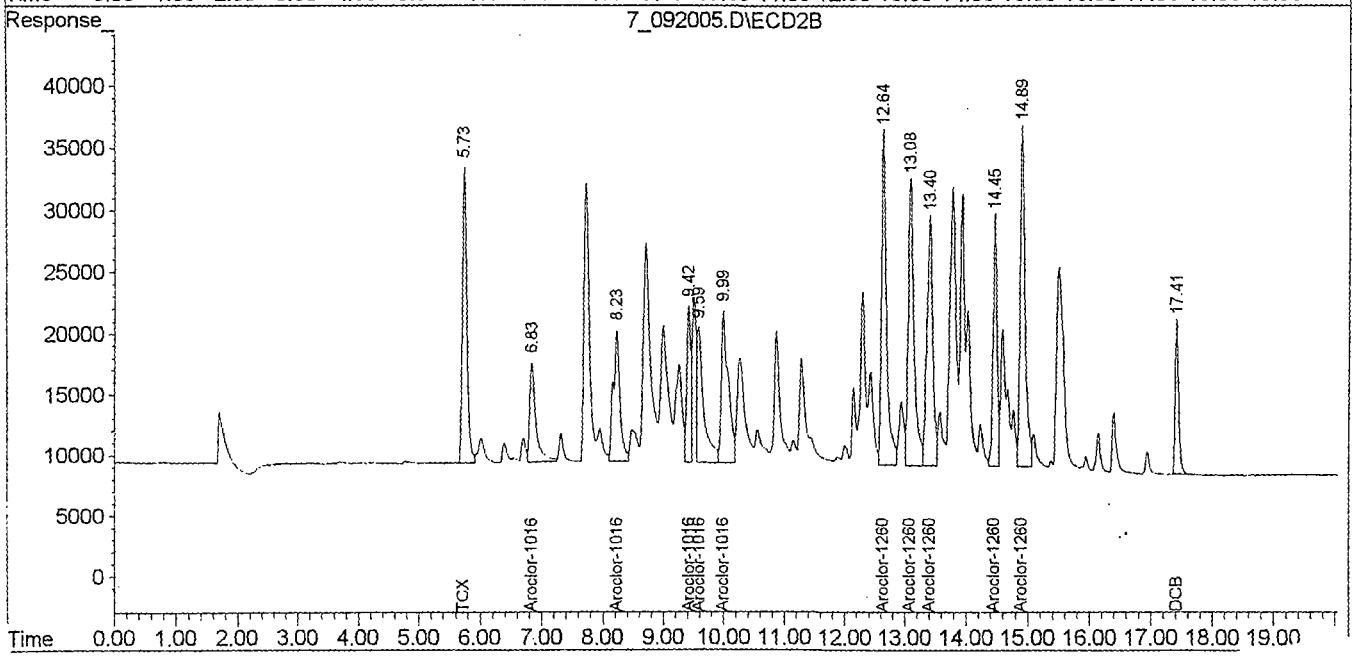
Signal #1 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092005.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092005.D\ECD2B.CH
Acq On : 20 Sep 2001 8:55 Operator: SA
Sample : AR1660L37R✓ Inst : HP_07
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 9:43 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-22-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092005.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092005.D\ECD2B.CH
Acq On : 20 Sep 2001 8:55 Operator: SA
Sample : AR1660L37R Inst : HP_07
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 9:43 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

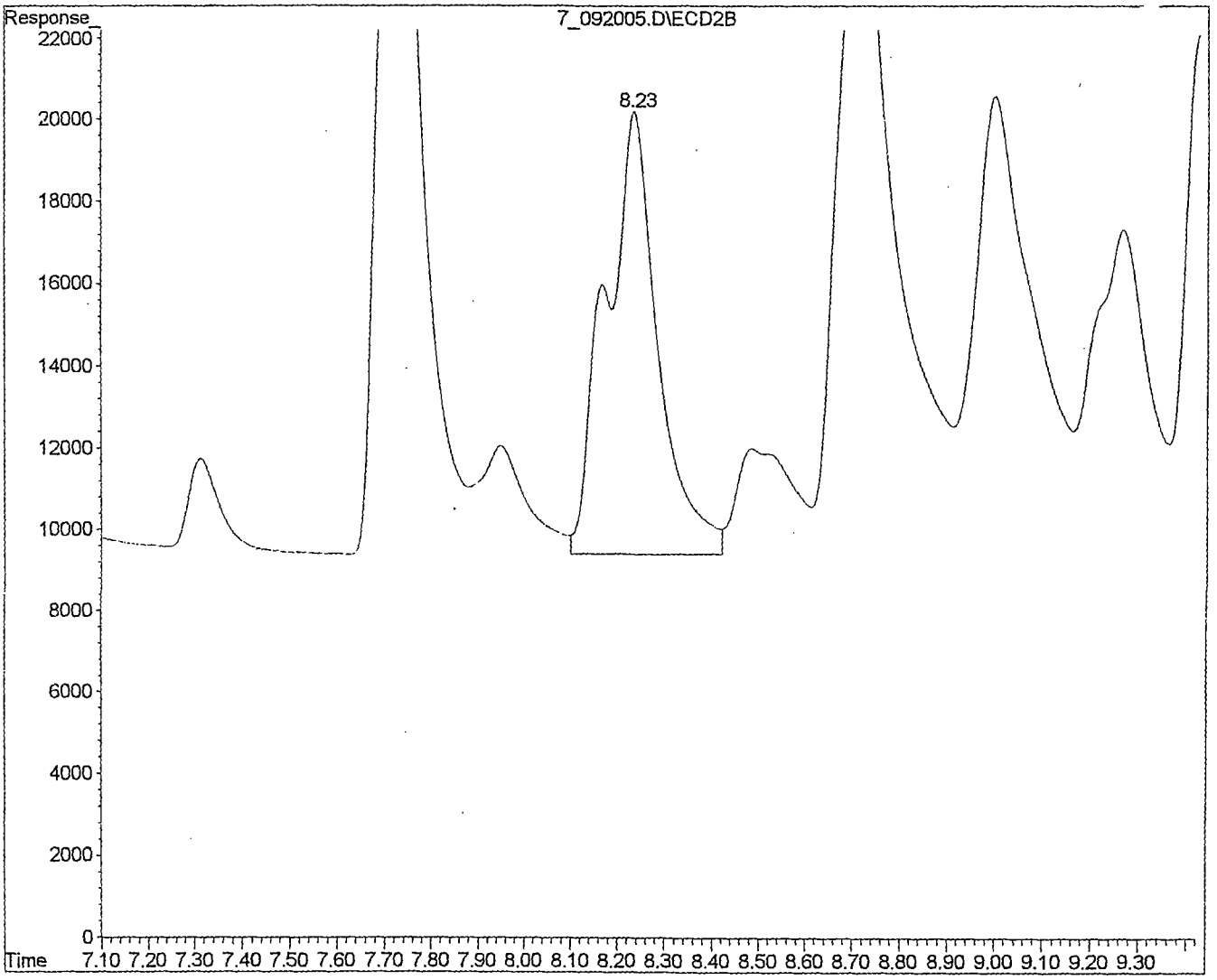
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	899415	1207821	20.7	20.1
22)	S DCB	16.90	17.41	401330	492315	18.2	16.9
	Target Compounds:						
2)	L1 Aroclor-1016	6.66	6.83	436041	575716	412.9	404.7
3)	L1 Aroclor-1016 {2}	7.89	8.23	588175	833253	381.0	388.3m
4)	L1 Aroclor-1016 {3}	8.48	9.42	1546550	562510	404.9	390.7
5)	L1 Aroclor-1016 {4}	8.90	9.59	399764	856888	388.4	350.8
6)	L1 Aroclor-1016 {5}	9.29	9.99	488841	989507	378.9	377.3
	Sum Aroclor-1016			3459371	3817872	1966.0	1911.7
	Average Aroclor-1016					393.196	382.343
17)	L7 Aroclor-1260	12.24	12.64	1025509	1565532	387.7	370.0
18)	L7 Aroclor-1260 {2}	12.83	13.08	1709984	1533086	388.2	364.5
19)	L7 Aroclor-1260 {3}	13.41	13.40	1369493	1356535	389.2	360.3
20)	L7 Aroclor-1260 {4}	14.07	14.46	624227	904124	384.1	356.9
21)	L7 Aroclor-1260 {5}	14.63	14.89	1385096	1514048	377.6	341.5
	Sum Aroclor-1260			6114310	6873325	1926.7	1793.2
	Average Aroclor-1260					385.348	358.643

09.20.01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_20_01\7_092005.D
Date Acquired: 20 Sep 2001 8:55
Inst: HP_07 Operator ID: SA
Name: AR1660L37R
Misc: 5-128-7
Method: F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 9:43 2001 Quant Results File: XPCBI18.RES



Aroclor-1016 {2} #2 8.23min area: 833253 m

Integration Time Range: 8.10 - 8.42

F:\HPCHEM\HP\7\DATA\09_20_01\7_092005.D
Report generated: Thu Sep 20 09:45:36 2001

Continuing Calibration Report HP_07

Method : F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Thu Sep 20 11:40:48 2001
Response via : Initial Calibration

Continuing Calibration File: 7_092010.D

OK 9-22-01

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	43.409	46.295	E3	-6.6	105
2	L1	Aroclor-1016	1.056	1.119	E3	-5.9	102
3	L1	Aroclor-1016 {2}	1.544	1.518	E3	1.7	92
4	L1	Aroclor-1016 {3}	3.820	4.008	E3	-4.9	99
5	L1	Aroclor-1016 {4}	1.029	1.048	E3	-1.8	100
6	L1	Aroclor-1016 {5}	1.290	1.281	E3	0.7	105
17	L7	Aroclor-1260	2.645	2.717	E3	-2.7	99
18	L7	Aroclor-1260 {2}	4.405	4.558	E3	-3.5	99
19	L7	Aroclor-1260 {3}	3.519	3.657	E3	-3.9	96
20	L7	Aroclor-1260 {4}	1.625	1.664	E3	-2.4	97
21	L7	Aroclor-1260 {5}	3.668	3.752	E3	-2.3	98
22	S	DCB	22.100	23.363	E3	-5.7	102

Signal #2
Continuing Calibration File: 7_092010.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	60.093	62.786	E3	-4.5	107
2	L1	Aroclor-1016	1.422	1.541	E3	-8.3	112
3	L1	Aroclor-1016 {2}	2.146	2.236	E3	-4.2	101
4	L1	Aroclor-1016 {3}	1.440	1.466	E3	-1.8	96
5	L1	Aroclor-1016 {4}	2.443	2.320	E3	5.0	100
6	L1	Aroclor-1016 {5}	2.623	2.640	E3	-0.7	98
17	L7	Aroclor-1260	4.231	4.284	E3	-1.3	97
18	L7	Aroclor-1260 {2}	4.206	4.298	E3	-2.2	97
19	L7	Aroclor-1260 {3}	3.765	3.709	E3	1.5	95
20	L7	Aroclor-1260 {4}	2.534	2.508	E3	1.0	93
1	L7	Aroclor-1260 {5}	4.433	4.413	E3	0.5	94
2	S	DCB	29.202	29.452	E3	-0.9	98

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

092010.D XPCBI18.M Thu Sep 20 11:40:58 2001

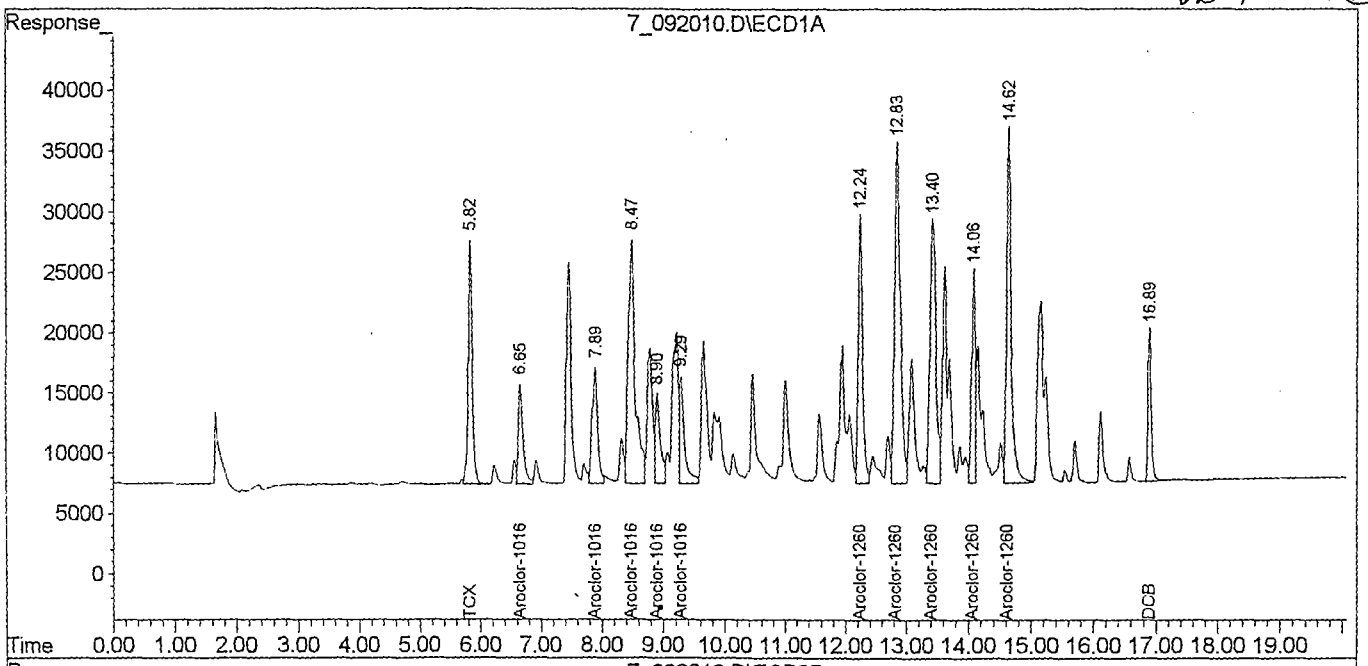
Chromatographic Report

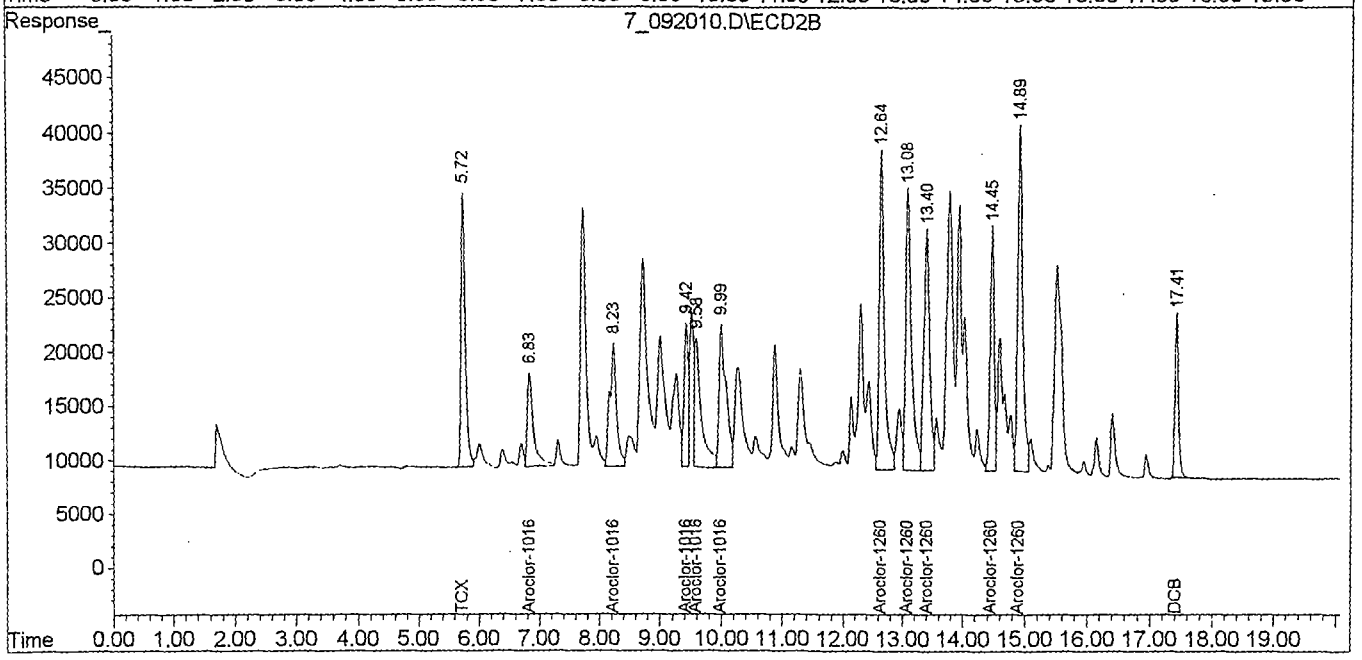
Signal #1 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092010.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092010.D\ECD2B.CH
Acq On : 20 Sep 2001 11:07 Operator: SA
Sample : AR1660L37T Inst : HP_07
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 11:40 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-22-01





)92010.D XPCBI18.M Thu Sep 20 11:41:51 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092010.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092010.D\ECD2B.CH
Acq On : 20 Sep 2001 11:07 Operator: SA
Sample : AR1660L37T Inst : HP_07
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 11:40 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

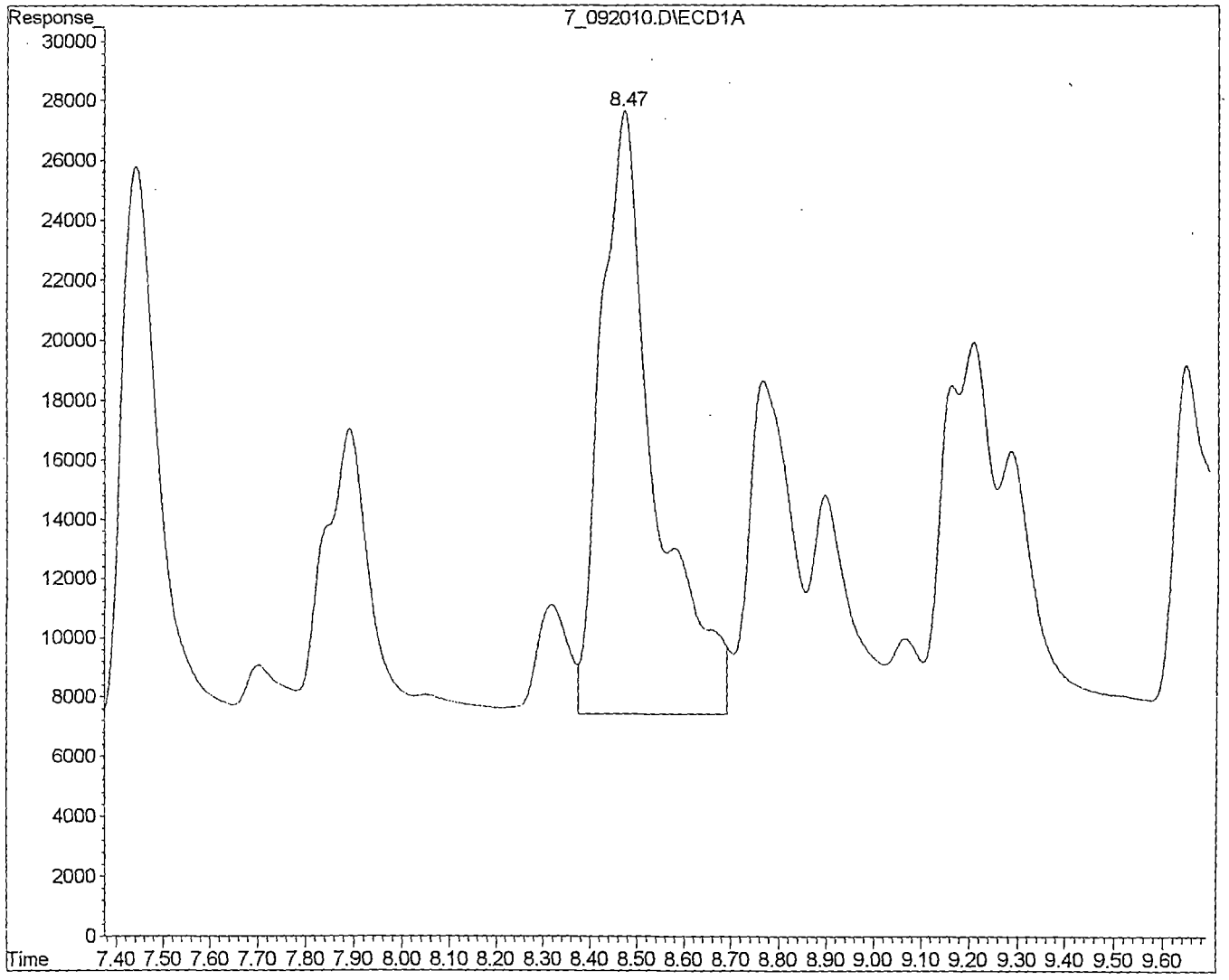
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.72	925897	1255722	21.3	20.9
22)	S DCB	16.89	17.41	467262	589044	21.1	20.2
	Target Compounds:						
2)	L1 Aroclor-1016	6.65	6.83	447514	616414	423.8	433.3
3)	L1 Aroclor-1016 {2}	7.89	8.23	607246	894412	393.3	416.8m
4)	L1 Aroclor-1016 {3}	8.47	9.42	1603078	586261	419.7m	407.2
5)	L1 Aroclor-1016 {4}	8.90	9.58	419035	928109	407.1	379.9
6)	L1 Aroclor-1016 {5}	9.29	9.99	512530	1056061	397.2	402.6
	Sum Aroclor-1016			3589403	4081257	2041.1	2039.9
	Average Aroclor-1016					408.215	407.970
17)	L7 Aroclor-1260	12.24	12.64	1086982	1713627	410.9	405.0
18)	L7 Aroclor-1260 {2}	12.83	13.08	1823334	1719195	413.9	408.7
19)	L7 Aroclor-1260 {3}	13.40	13.40	1462681	1483690	415.7	394.1
20)	L7 Aroclor-1260 {4}	14.06	14.45	665720	1003248	409.6	396.0
21)	L7 Aroclor-1260 {5}	14.62	14.89	1500958	1765097	409.2	398.2
	Sum Aroclor-1260			6539675	7684857	2059.3	2002.0
	Average Aroclor-1260					411.862	400.399

CDG.20.01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_20_01\7_092010.D
Date Acquired: 20 Sep 2001 11:07
Inst: HP_07 Operator ID: SA
Name: AR1660L37T
Misc: 5-128-7
Method: F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 11:40 2001 Quant Results File: XPCBI18.RES



09-20-01

Aroclor-1016 {3} 8.47min area: 1603078 m

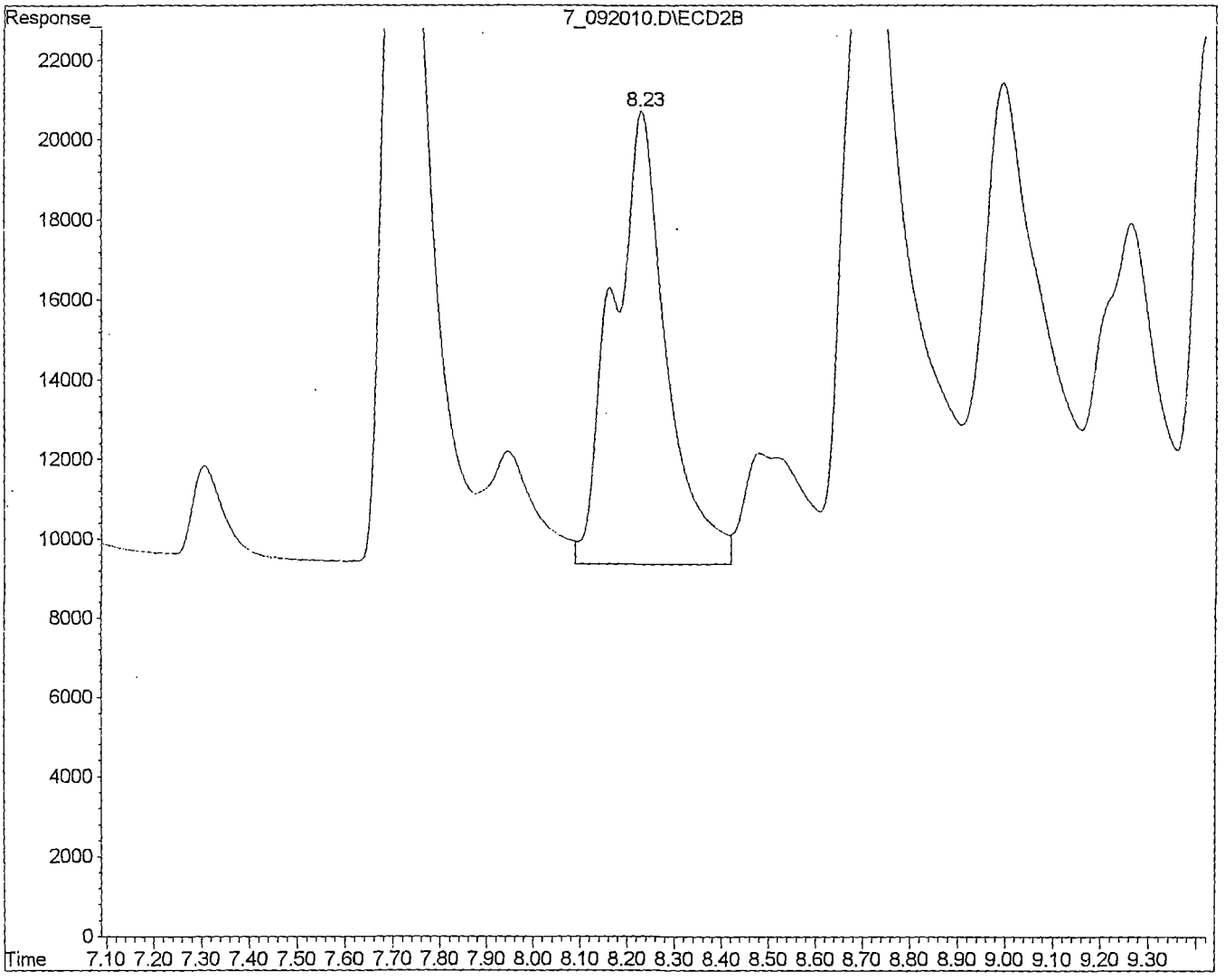
Integration Time Range: 8.38 - 8.69

OK 9-22-01

F:\HPCHEM\HP\7\DATA\09_20_01\7_092010.D
Report generated: Thu Sep 20 11:42:08 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_20_01\7_092010.D
Date Acquired: 20 Sep 2001 11:07
Inst: HP_07 Operator ID: SA
Name: AR1660L37T
Misc: 5-128-7
Method: F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 11:40 2001 Quant Results File: XPCBI18.RES



09-22-01

Aroclor-1016 {2} #2 8.23min area: 894412 m

Integration Time Range: 8.09 - 8.42

OK 9-22-01 RT

F:\HPCHEM\HP\7\DATA\09_20_01\7_092010.D
Report generated: Thu Sep 20 11:42:09 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKSG

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) SOIL Lab Sample ID: BL0816SG

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

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

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/16/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/14/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

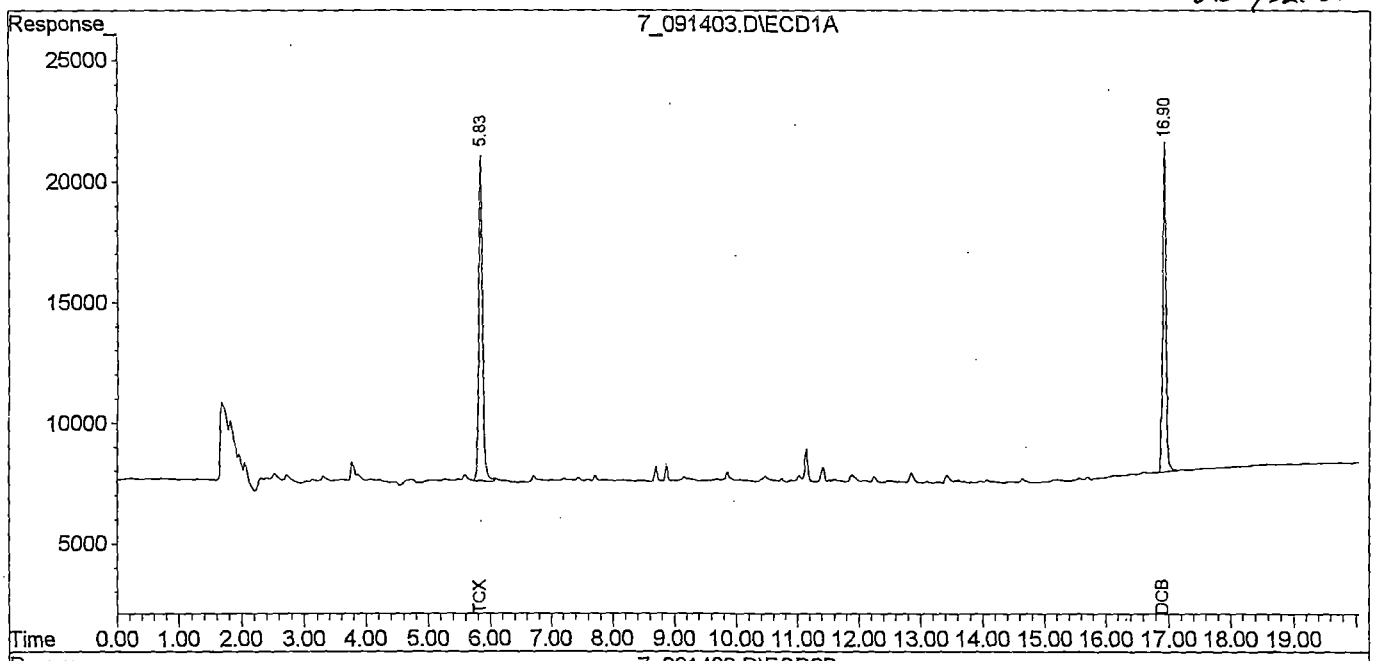
Chromatographic Report

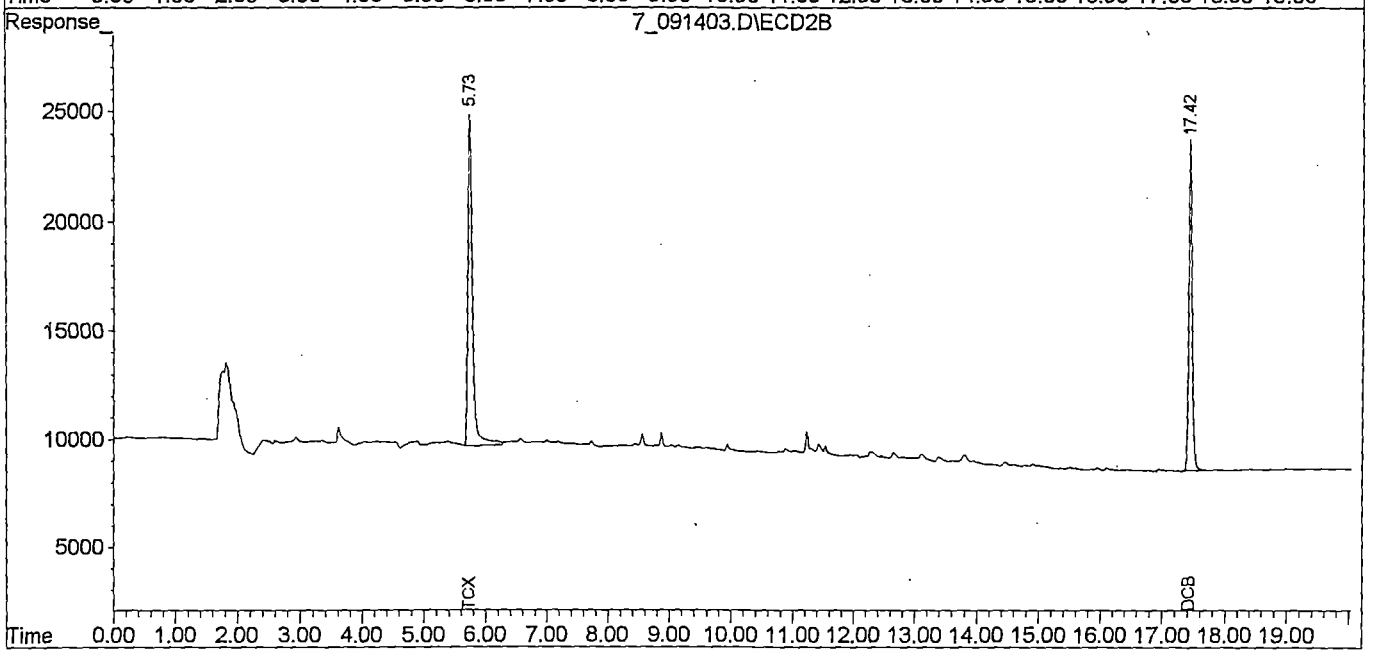
Signal #1 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091403.D\ECD1A.CH Vial: 3
Signal #2 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091403.D\ECD2B.CH
Acq On : 14 Sep 2001 8:11 Operator: SA
Sample : BL0816SG *PBLKSG * Inst : HP_07
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 9:41 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_14_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-21-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091403.D\ECD1A.CH Vial: 3
Signal #2 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091403.D\ECD2B.CH
Acq On : 14 Sep 2001 8:11 Operator: SA
Sample : BL0816SG *PBLKSG * Inst : HP_07
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 9:41 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_14_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	571017	776487	4.683	4.987
	Spiked Amount 6.667			Recovery	=	70.25%	74.81%
22)	S DCB	16.90	17.42	476704	560135	7.513	7.742
	Spiked Amount 6.667			Recovery	=	112.70%	116.13%

Target Compounds:

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK79

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/14/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK79

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/14/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

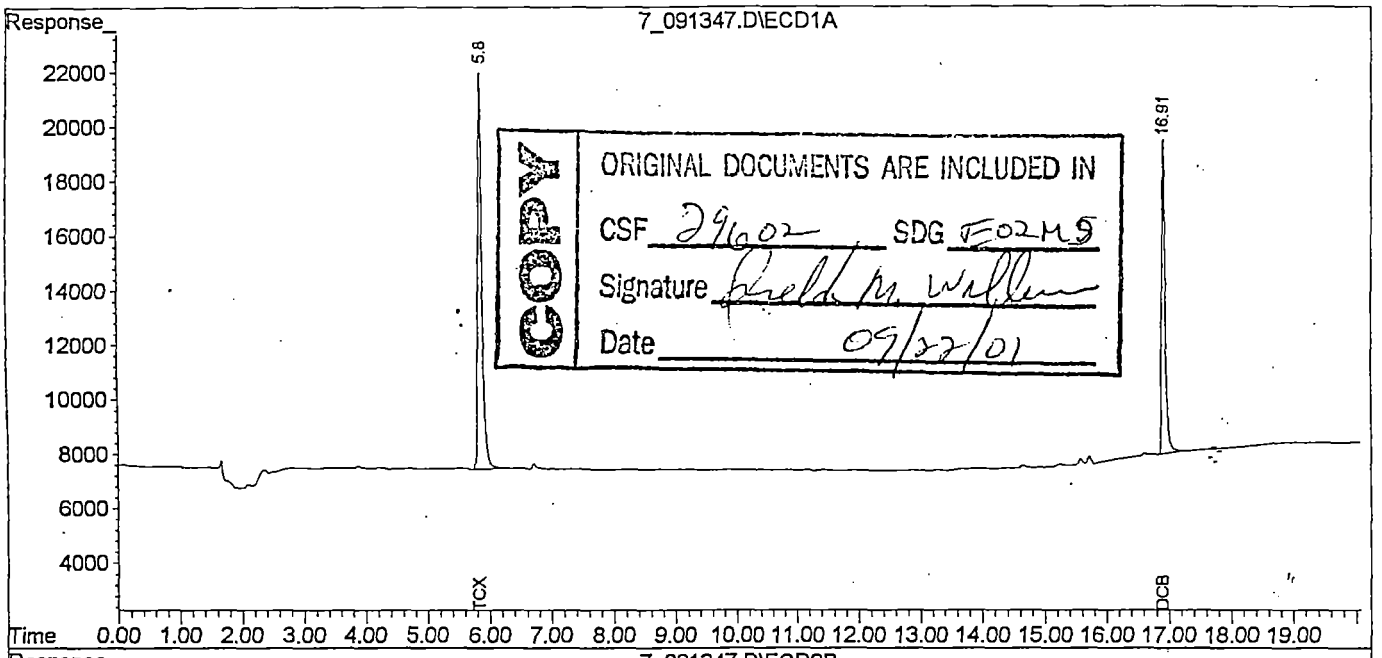
FORM I PCB

Chromatographic Report

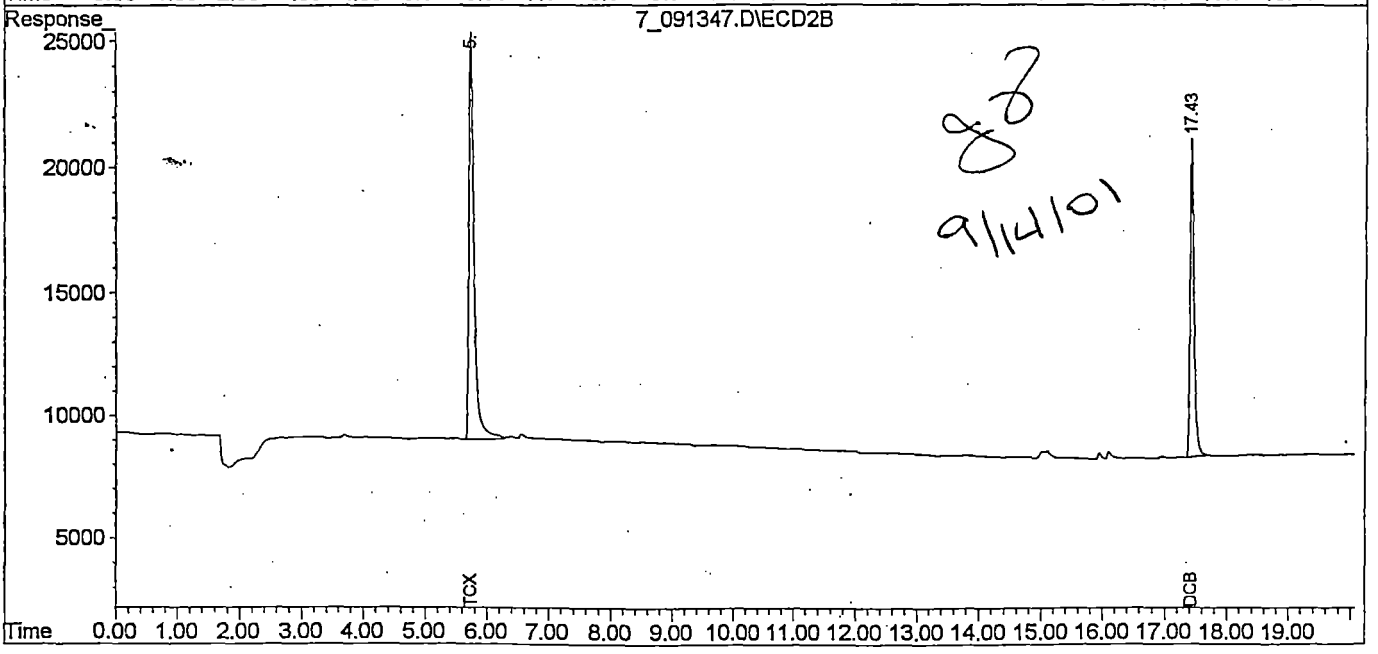
Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091347.D\ECD1A.CH Vial: 47
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091347.D\ECD2B.CH
Acq On : 14 Sep 2001 4:08 Operator: SA
Sample : PIBLK79 Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 6:58 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B



ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29602 SDG F02M9
Signature Gerald M. Wallace
Date 09/22/01



9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091347.D\ECD1A.CH Vial: 47
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091347.D\ECD2B.CH
Acq On : 14 Sep 2001 4:08 Operator: SA
Sample : PIBLK79 Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 6:58 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	689841	932603	17.0	18.0
22)	S DCB	16.91	17.43	454109	552796	21.5	22.9
	Target Compounds:						

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK7A

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/14/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK7A

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_ ____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/14/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

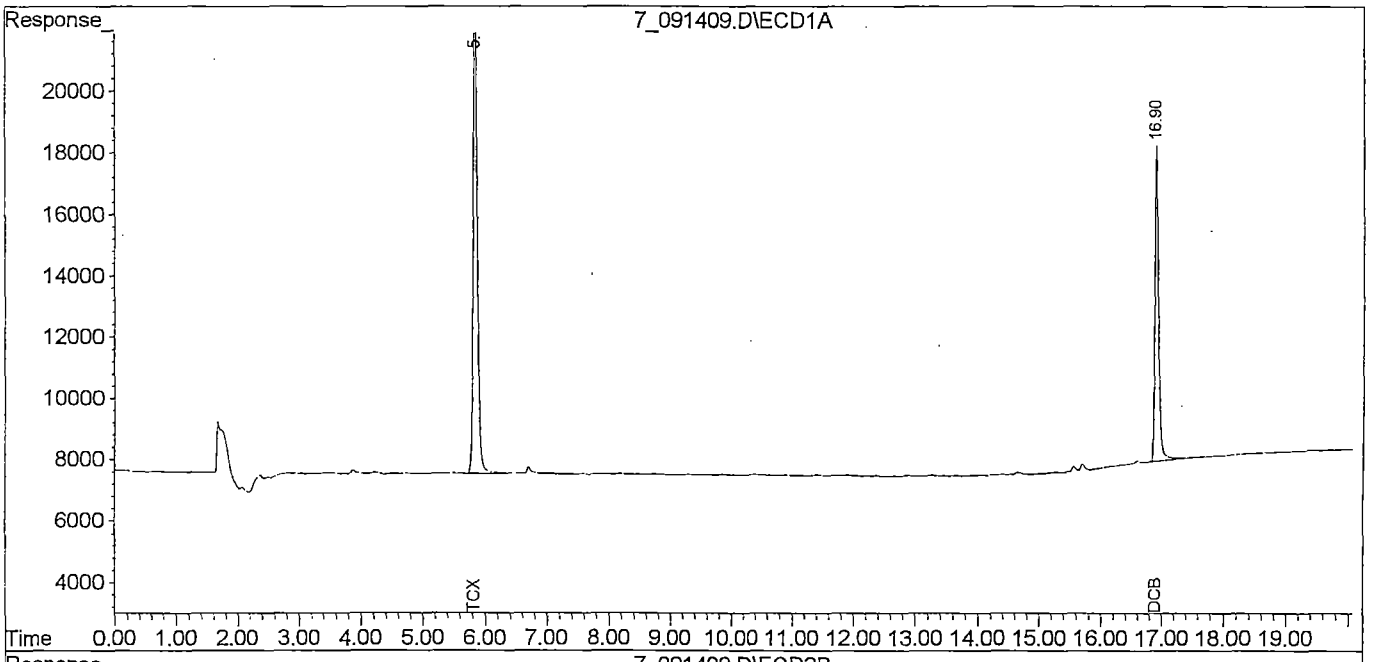
FORM I PCB

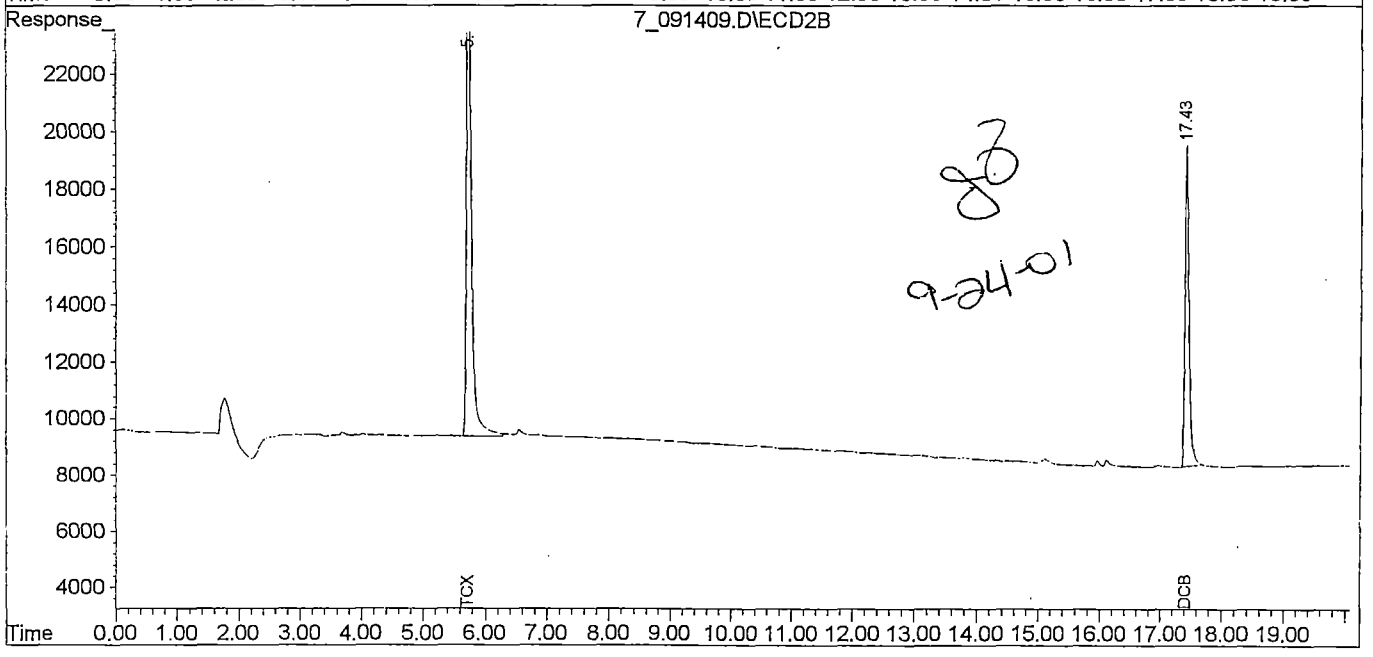
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091409.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091409.D\ECD2B.CH
Acq On : 14 Sep 2001 10:38 Operator: SA
Sample : PIBLK7A Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 11:32 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_14_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B





8
9-24-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091409.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091409.D\ECD2B.CH
Acq On : 14 Sep 2001 10:38 Operator: SA
Sample : PIBLK7A Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 11:32 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_14_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	721723	996400	17.8	19.2
22)	S DCB	16.90	17.43	427860	511770	20.2	21.2
	Target Compounds:						

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK7G

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:__

Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/19/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK7G

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/19/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

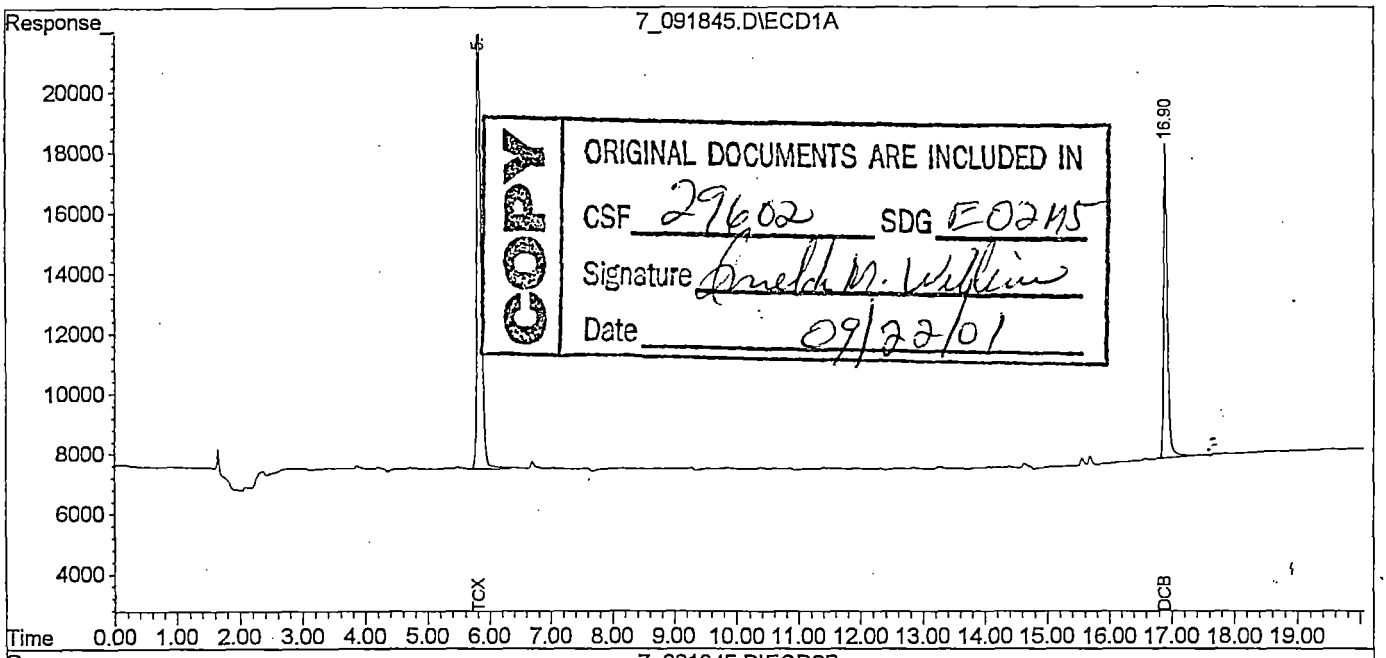
FORM I PCB

Chromatographic Report

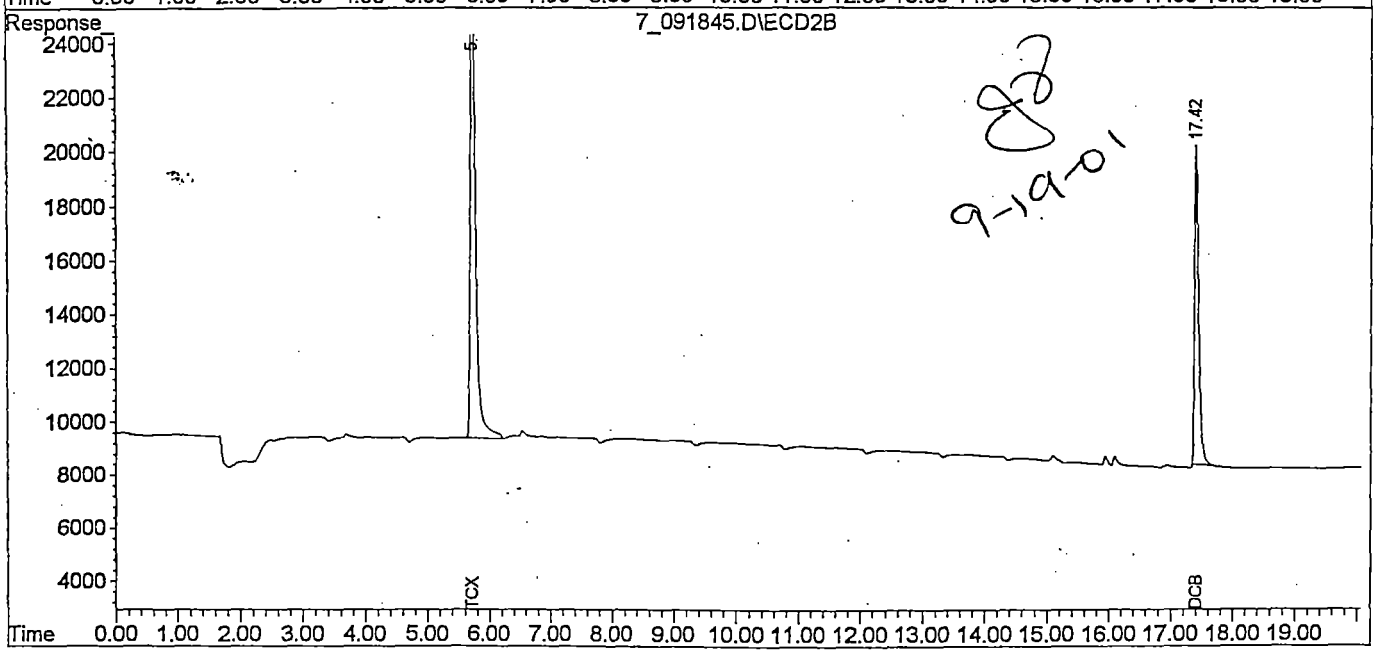
Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091845.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091845.D\ECD2B.CH
Acq On : 19 Sep 2001 1:19 Operator: SA
Sample : PIBLK7G Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:57 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B



ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29602 SDG E0245
Signature Lynda M. Williams
Date 09/22/01



9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091845.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091845.D\ECD2B.CH
Acq On : 19 Sep 2001 1:19 Operator: SA
Sample : PIBLK7G Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:57 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	756788	1091015	17.6	16.6
22)	S DCB	16.90	17.42	428061	532933	18.4	18.0
	Target Compounds:						

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK7H

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/19/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK7H

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/19/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

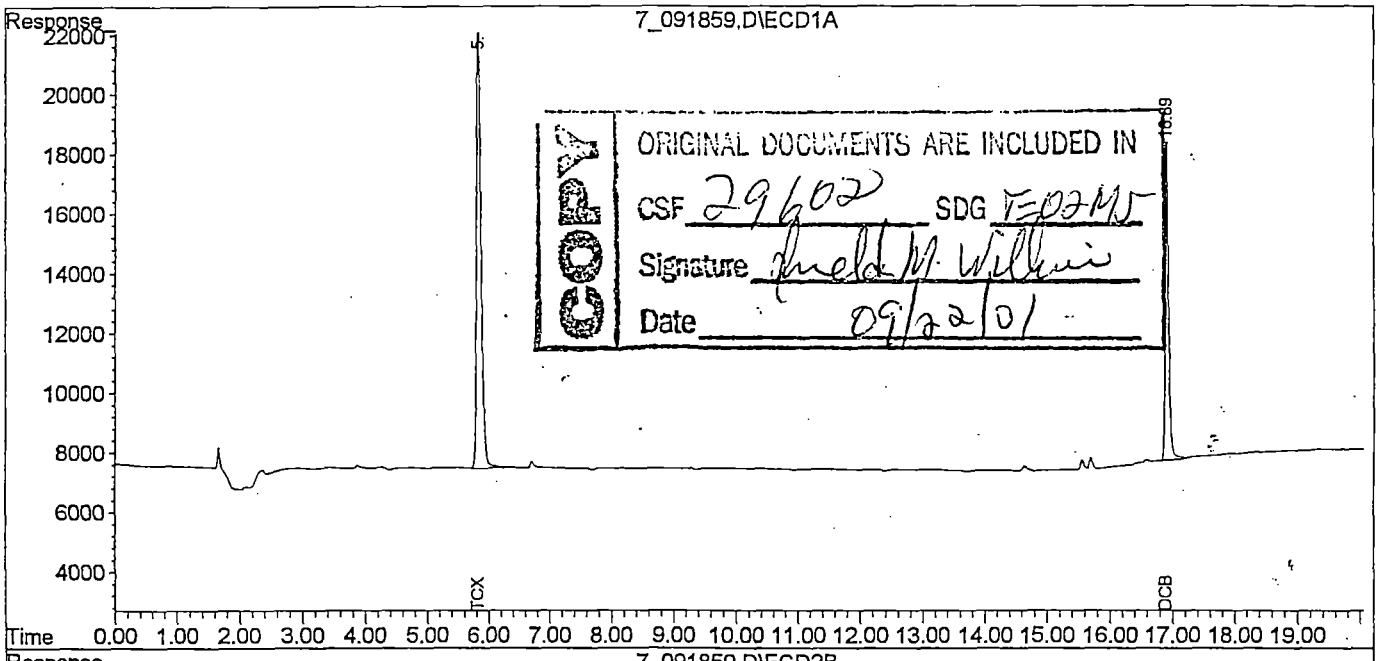
FORM I PCB

Chromatographic Report

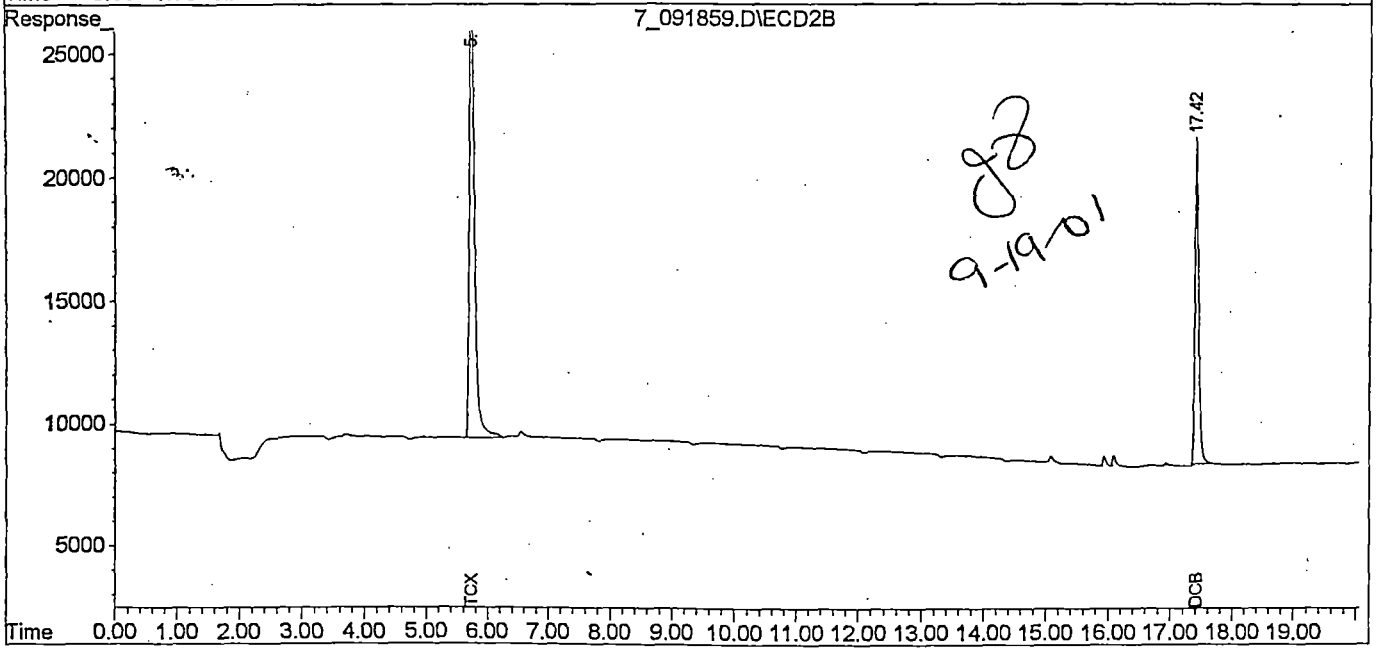
Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091859.D\ECD1A.CH Vial: 34
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091859.D\ECD2B.CH
Acq On : 19 Sep 2001 6:55 Operator: SA
Sample : PIBLK7H Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:58 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B



ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29602 SDG F-07M5
Signature Sheila M. Williams
Date 09/22/01



gg
9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091859.D\ECD1A.CH Vial: 34
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091859.D\ECD2B.CH
Acq On : 19 Sep 2001 6:55 Operator: SA
Sample : PIBLK7H Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 8:58 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	777953	1128255	18.1	17.1
22)	S DCB	16.90	17.42	396613	536343	17.1	18.1
	Target Compounds:						

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK7I

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/19/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK7I

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/19/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

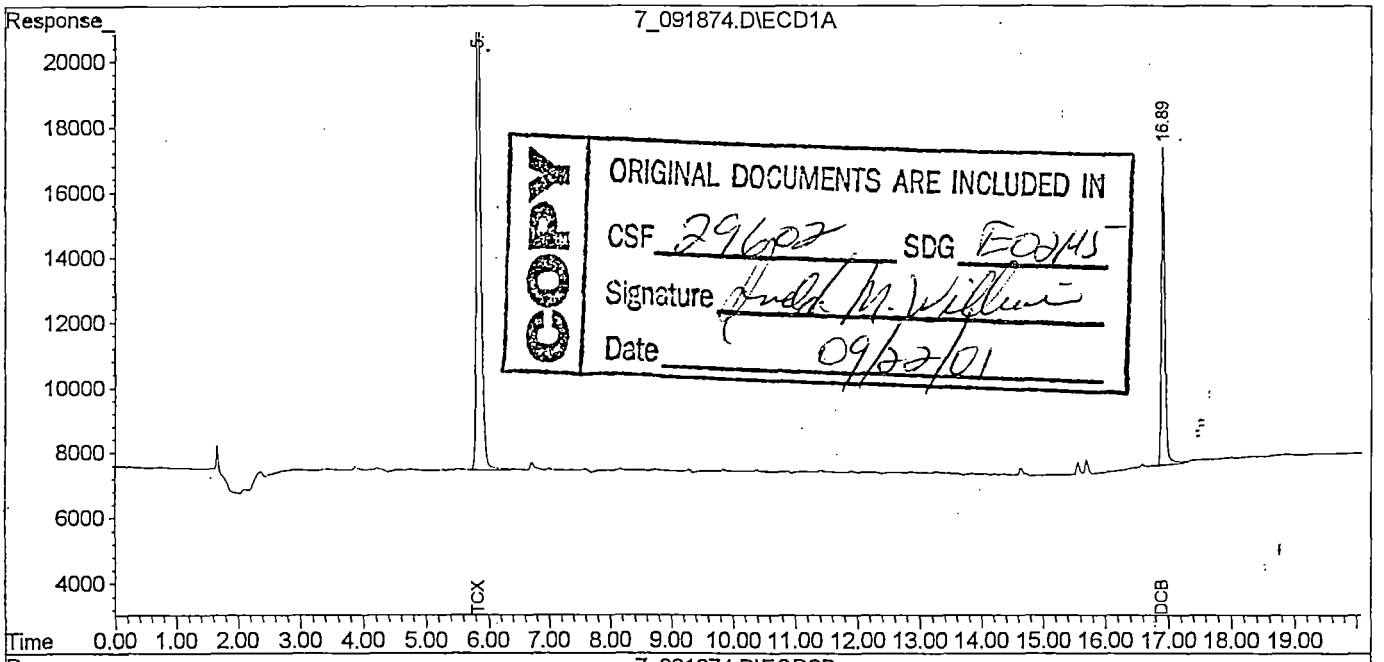
FORM I PCB

Chromatographic Report

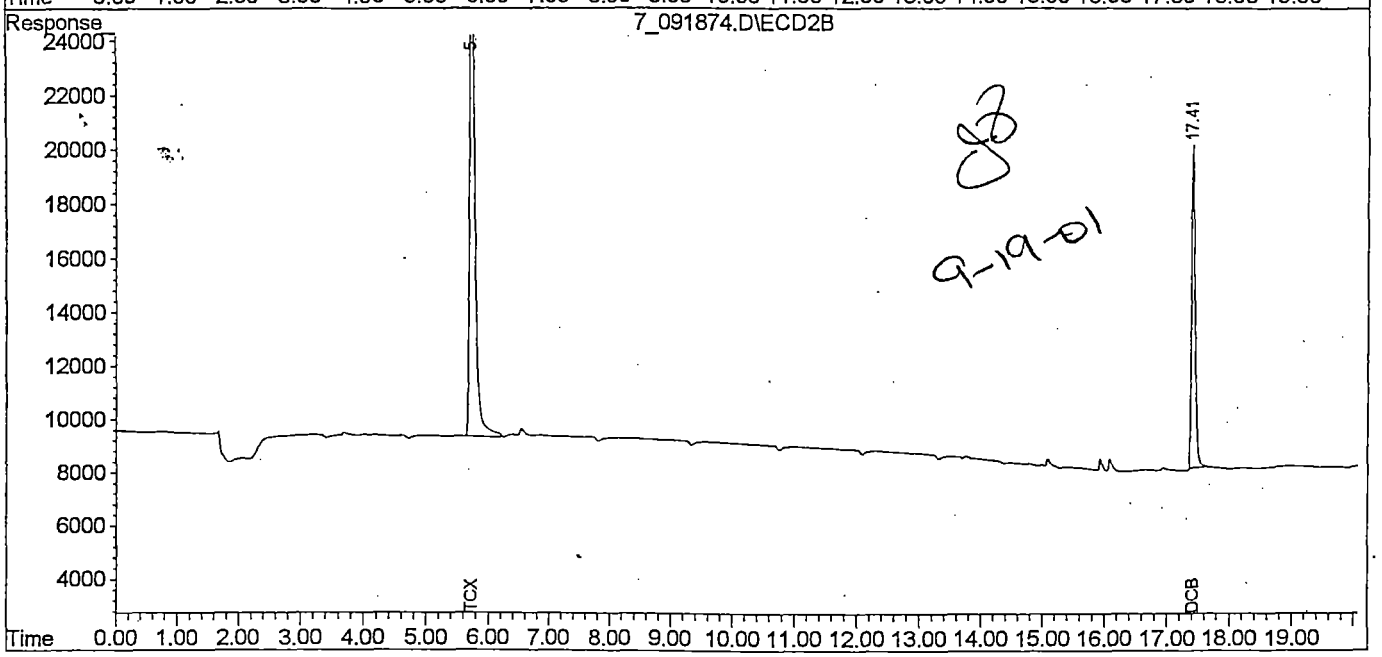
Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091874.D\ECD1A.CH Vial: 47
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091874.D\ECD2B.CH
Acq On : 19 Sep 2001 14:04 Operator: SA
Sample : PIBLK7I Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 15:15 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B



COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29602 SDG EO2MS
Signature Andrew M. Williams
Date 09/22/01



9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091874.D\ECD1A.CH Vial: 47
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091874.D\ECD2B.CH
Acq On : 19 Sep 2001 14:04 Operator: SA
Sample : PIBLK7I Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 15:15 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	798520	1163341	18.5	17.7
22)	S DCB	16.90	17.41	360382	475177	15.5	16.1

Target Compounds:

323

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK7J

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/20/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK7J

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/20/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

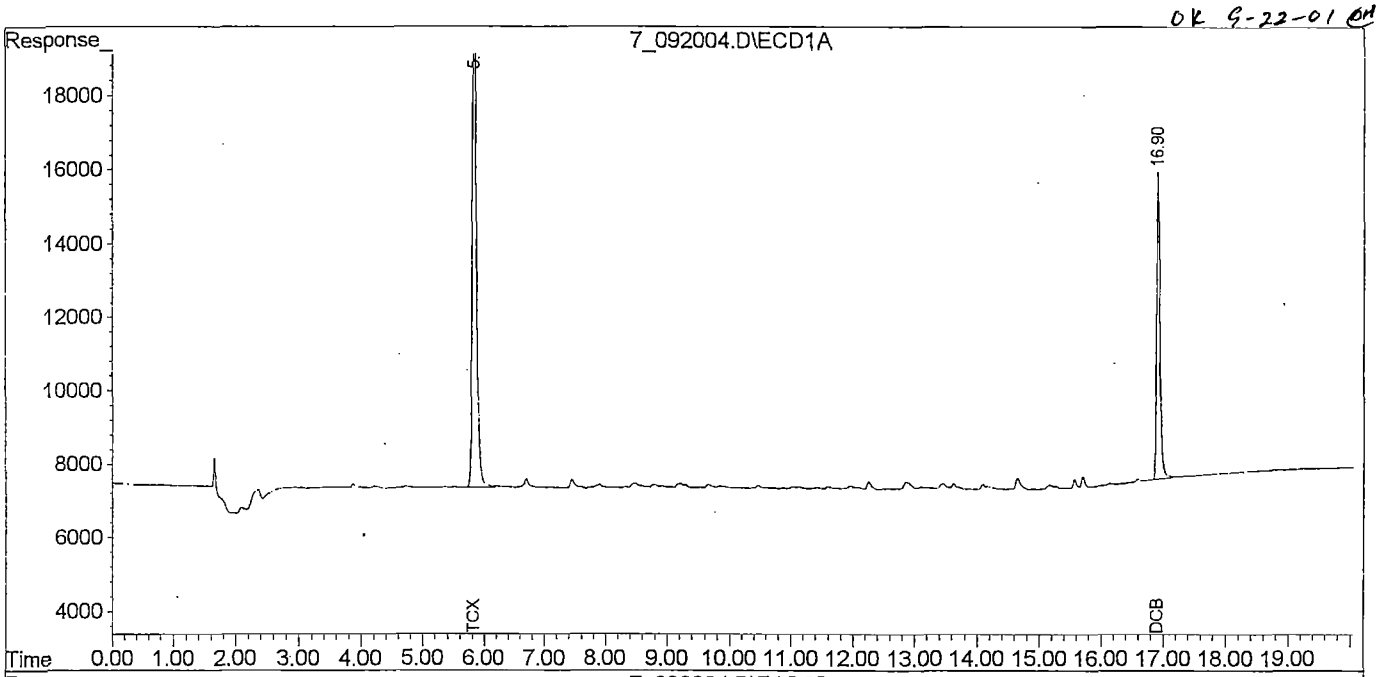
Chromatographic Report

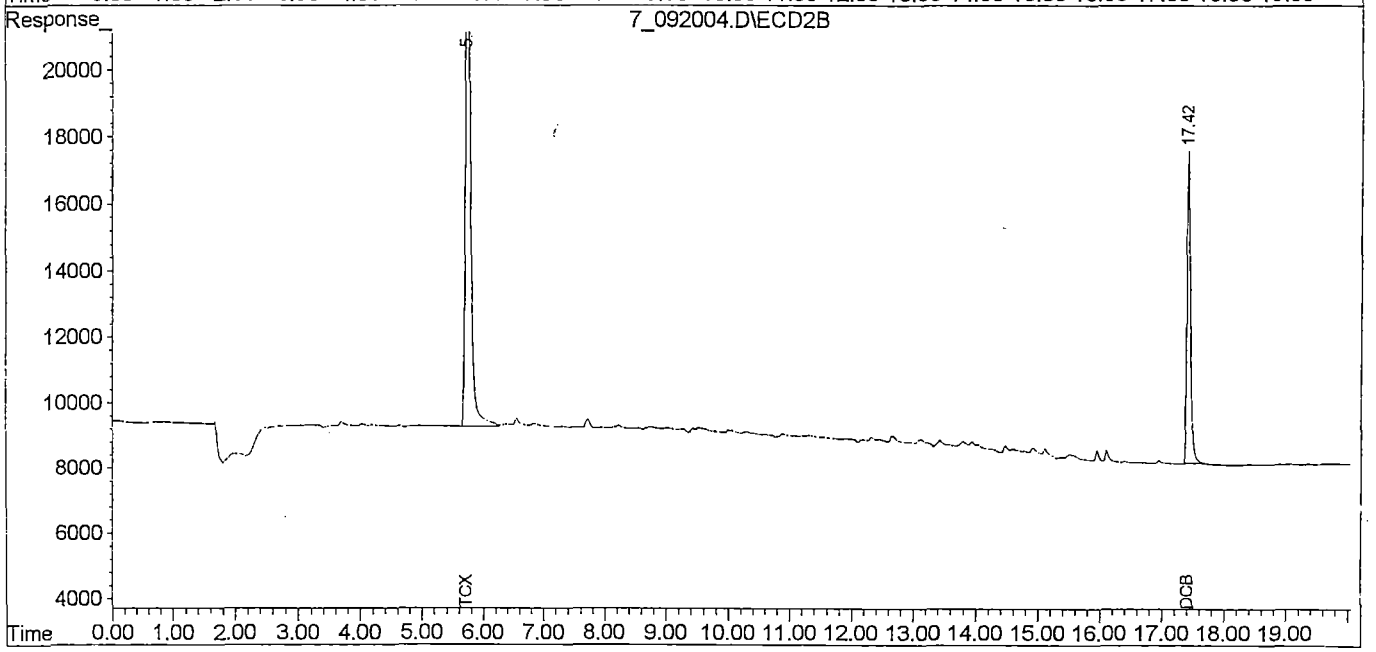
Signal #1 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092004.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092004.D\ECD2B.CH
Acq On : 20 Sep 2001 8:30 Operator: SA
Sample : PIBLK7J / Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 9:41 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-22-01 [illegible]





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092004.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092004.D\ECD2B.CH
Acq On : 20 Sep 2001 8:30 Operator: SA
Sample : PIBLK7J Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 9:41 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	683605	988471	15.7	16.4
22)	S DCB	16.90	17.42	306500	373104	13.9	12.8

Target Compounds:

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK7K

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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

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

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/20/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK7K

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) WATER Lab Sample ID: 5-131-7

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

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

Extraction: (SepF/Cont/Sonc) Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 09/20/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

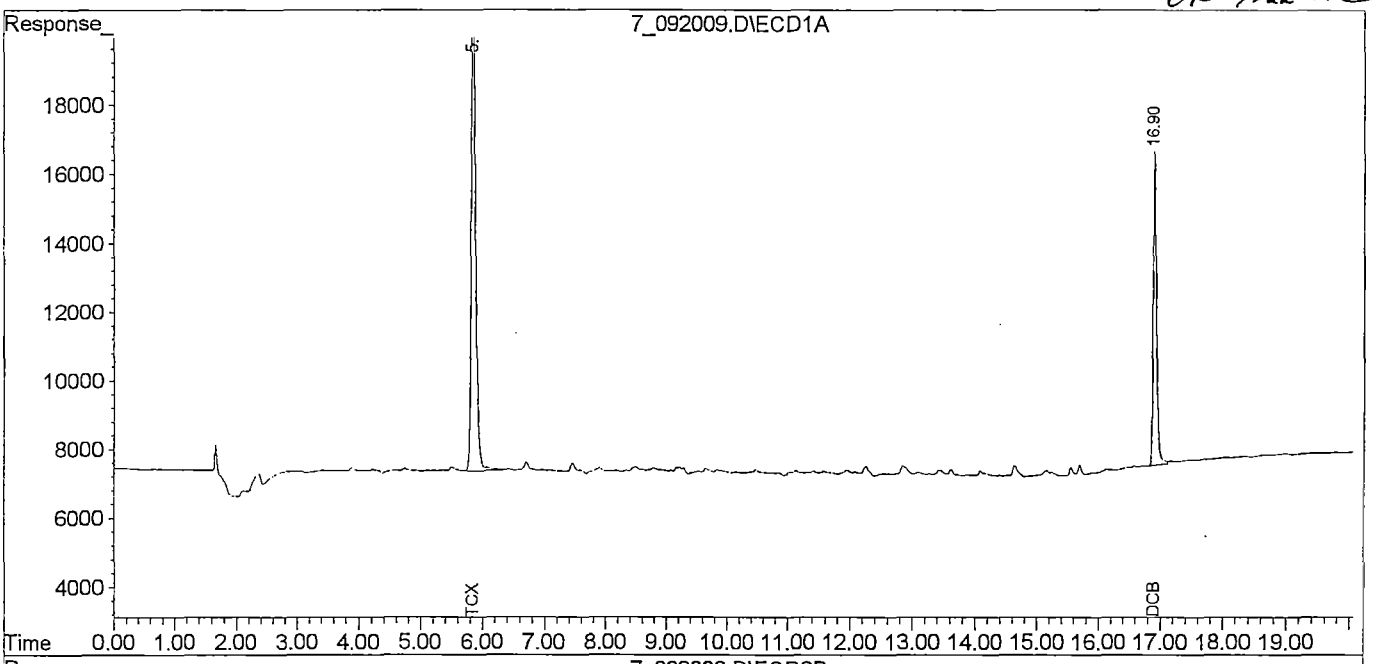
Chromatographic Report

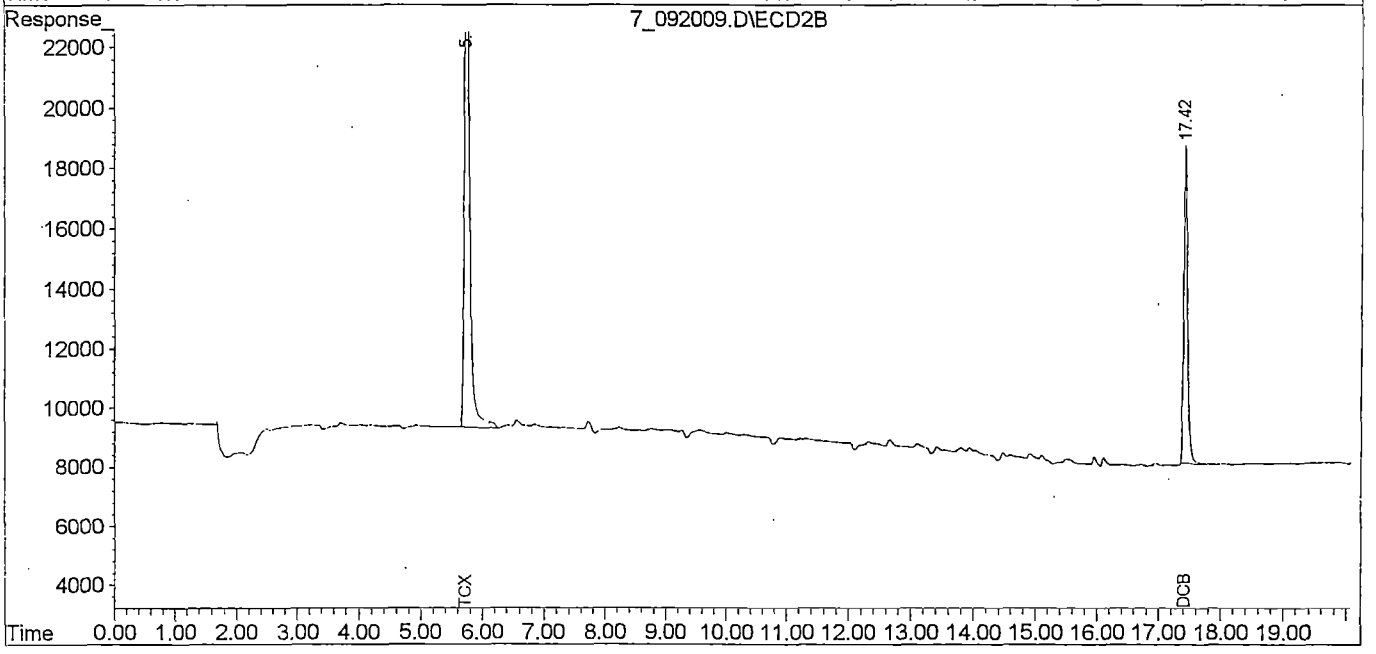
Signal #1 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092009.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092009.D\ECD2B.CH
Acq On : 20 Sep 2001 10:43 Operator: SA
Sample : PIBLK7K ✓ Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 11:39 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-22-01 DLP





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092009.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\7\DATA\09_20_01\7_092009.D\ECD2B.CH
Acq On : 20 Sep 2001 10:43 Operator: SA
Sample : PIBLK7K Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 11:39 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_20_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	702566	1036154	16.2	17.2
22)	S DCB	16.90	17.42	339507	425431	15.4	14.6
	Target Compounds:						

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

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) SOIL Lab Sample ID: LC0816SG

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

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

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/16/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/14/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	120	
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

FORM I PCB

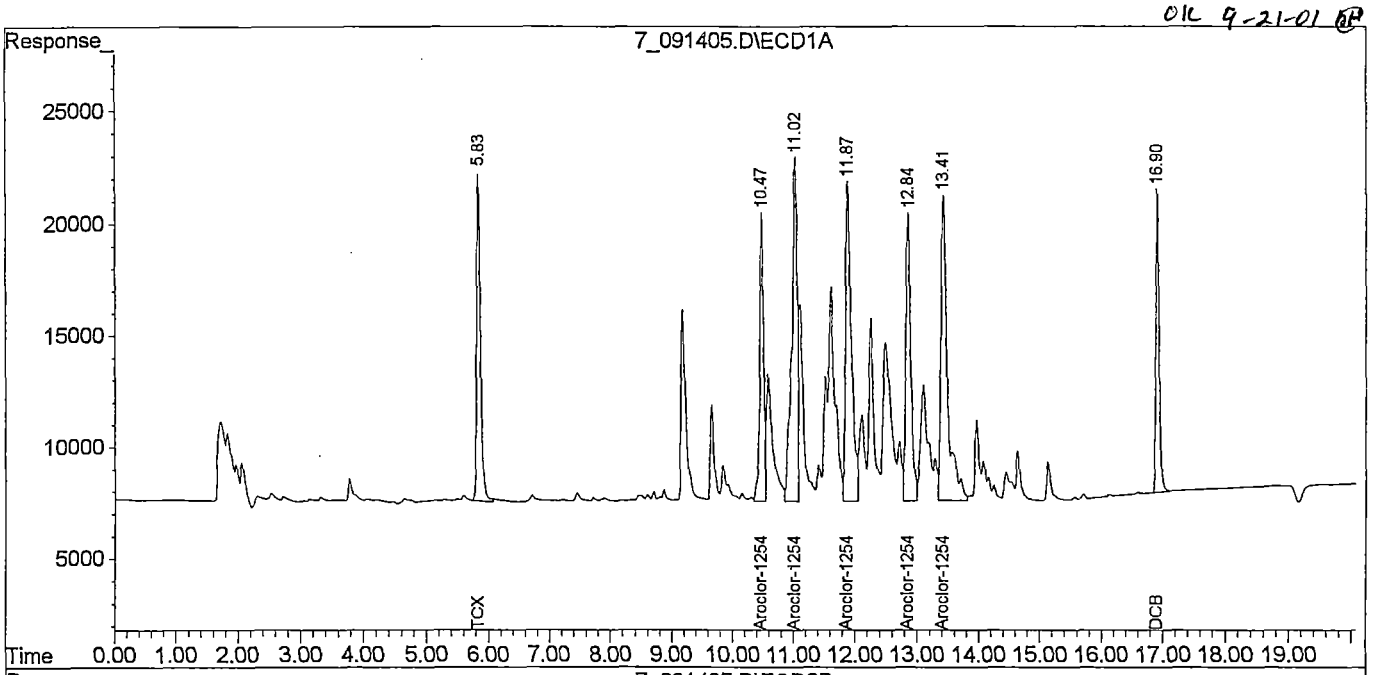
Chromatographic Report

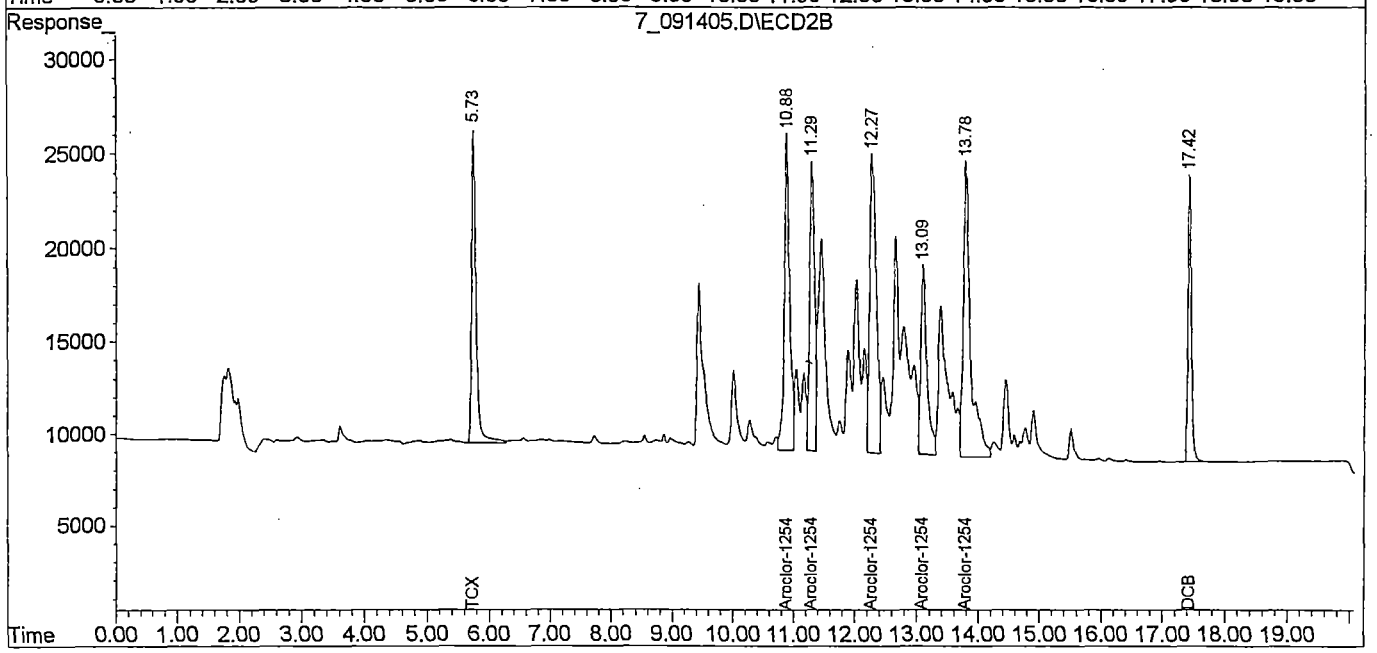
Signal #1 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091405.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091405.D\ECD2B.CH
Acq On : 14 Sep 2001 , 9:00 Operator: SA
Sample : LC0816SG' *ELCS1 * Inst : HP_07
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 9:44 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_14_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-21-01 BP





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091405.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091405.D\ECD2B.CH
Acq On : 14 Sep 2001 9:00 Operator: SA
Sample : LC0816SG *ELCS1 * Inst : HP_07
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 9:44 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_14_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

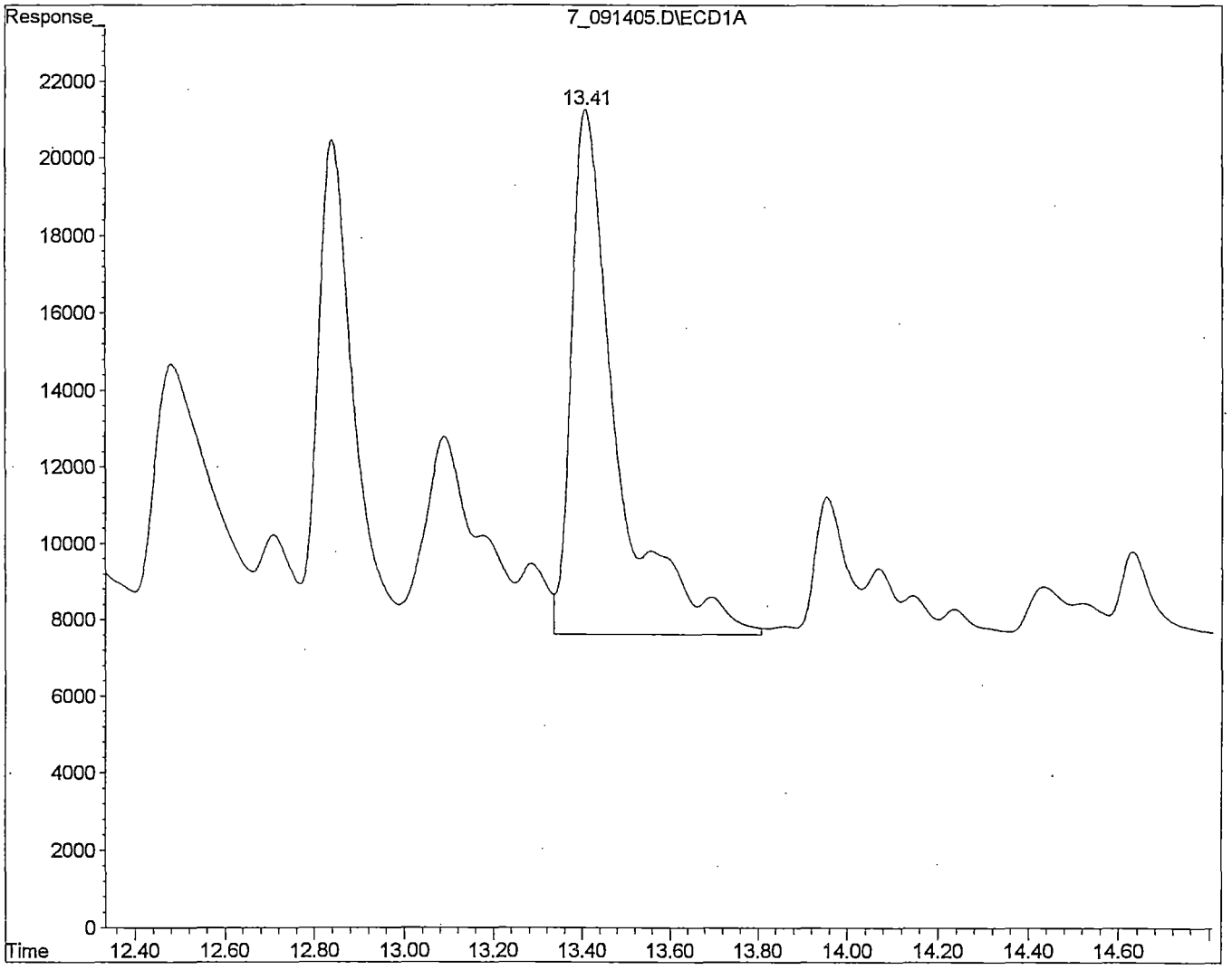
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	628930	867066	5.158	5.569
	Spiked Amount 6.667			Recovery	=	77.37%	83.54%
22)	S DCB	16.90	17.42	480106	572924	7.566	7.919
	Spiked Amount 6.667			Recovery	=	113.49%	118.79%
	Target Compounds:						
12)	L6 Aroclor-1254	10.47	10.88	563252	1020546	115.7	127.0
13)	L6 Aroclor-1254 {2}	11.02	11.30	955431	875091	121.4	135.3
14)	L6 Aroclor-1254 {3}	11.87	12.27	923973	1203072	115.4	95.1
15)	L6 Aroclor-1254 {4}	12.84	13.09	707157	716332	115.8	114.3
16)	L6 Aroclor-1254 {5}	13.41	13.78	984456	1310801	121.6m	116.2m
	Sum Aroclor-1254			4134269	5125842	589.8	587.9
	Average Aroclor-1254					117.955	117.585

9-17-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_14_01\7_091405.D
Date Acquired: 14 Sep 2001 9:00
Inst: HP_07 Operator ID: SA
Name: LC0816SG *ELCS1 *
Misc: **30G/5.0ML*0
Method: F:\HPCHEM\HP\7\DATA\09_14_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 9:44 2001 Quant Results File: XPCBI12.RES



09-17-01

Aroclor-1254 {5} 13.41min area: 984456 m

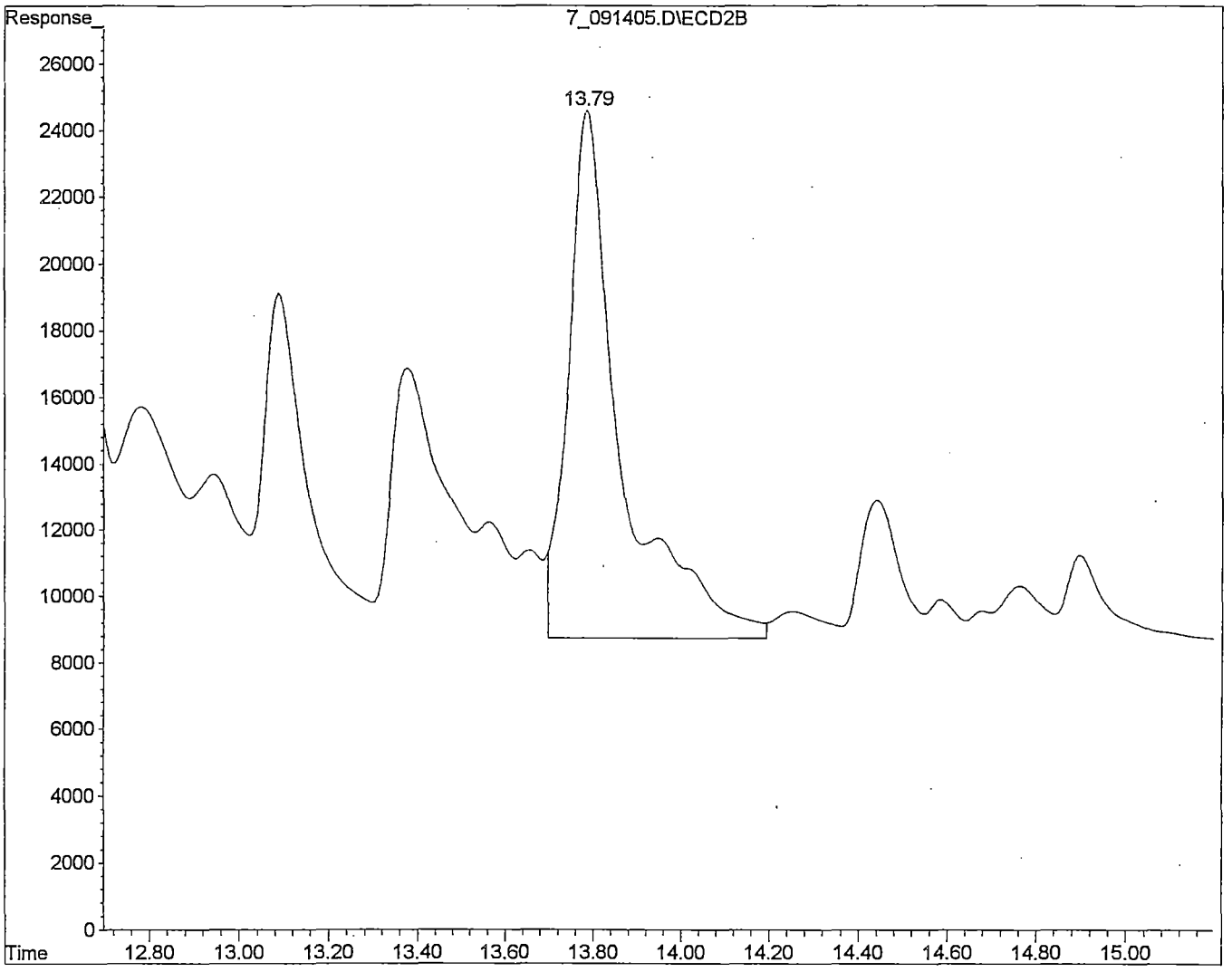
Integration Time Range: 13.33 - 13.81

ok 9-21-01

F:\HPCHEM\HP\7\DATA\09_14_01\7_091405.D
Report generated: Mon Sep 17 09:48:03 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_14_01\7_091405.D
Date Acquired: 14 Sep 2001 9:00
Inst: HP_07 Operator ID: SA
Name: LC0816SG *ELCS1 *
Misc: **30G/5.0ML*0
Method: F:\HPCHEM\HP\7\DATA\09_14_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 9:44 2001 Quant Results File: XPCBI12.RES



ok 9-17-01

Aroclor-1254 {5} #2 13.79min area: 1310801 m

Integration Time Range: 13.70 - 14.19

OK 9-21-01 (EH)

F:\HPCHEM\HP\7\DATA\09_14_01\7_091405.D
Report generated: Mon Sep 17 09:48:04 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) SOIL Lab Sample ID: LD0816SG

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

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

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/16/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/14/01

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	150	
11096-82-5	Aroclor-1260	33	U
Surrogate amount spiked		6.67	

FORM I PCB

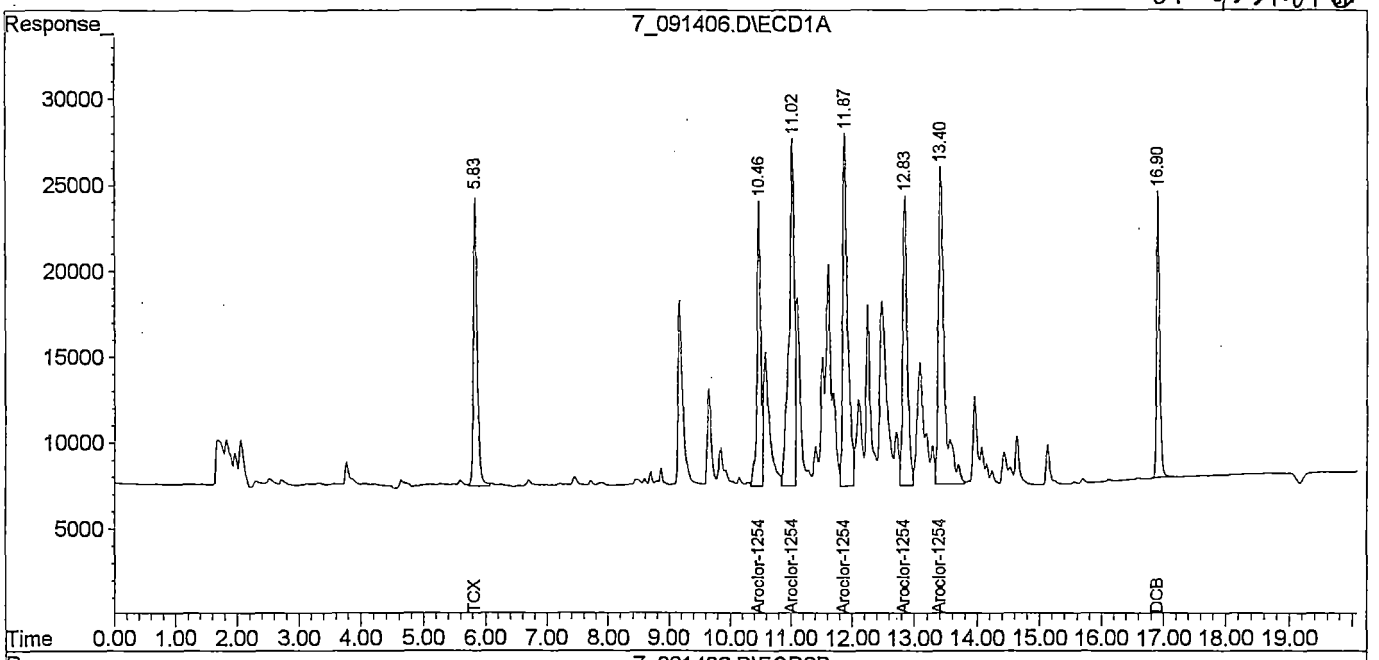
Chromatographic Report

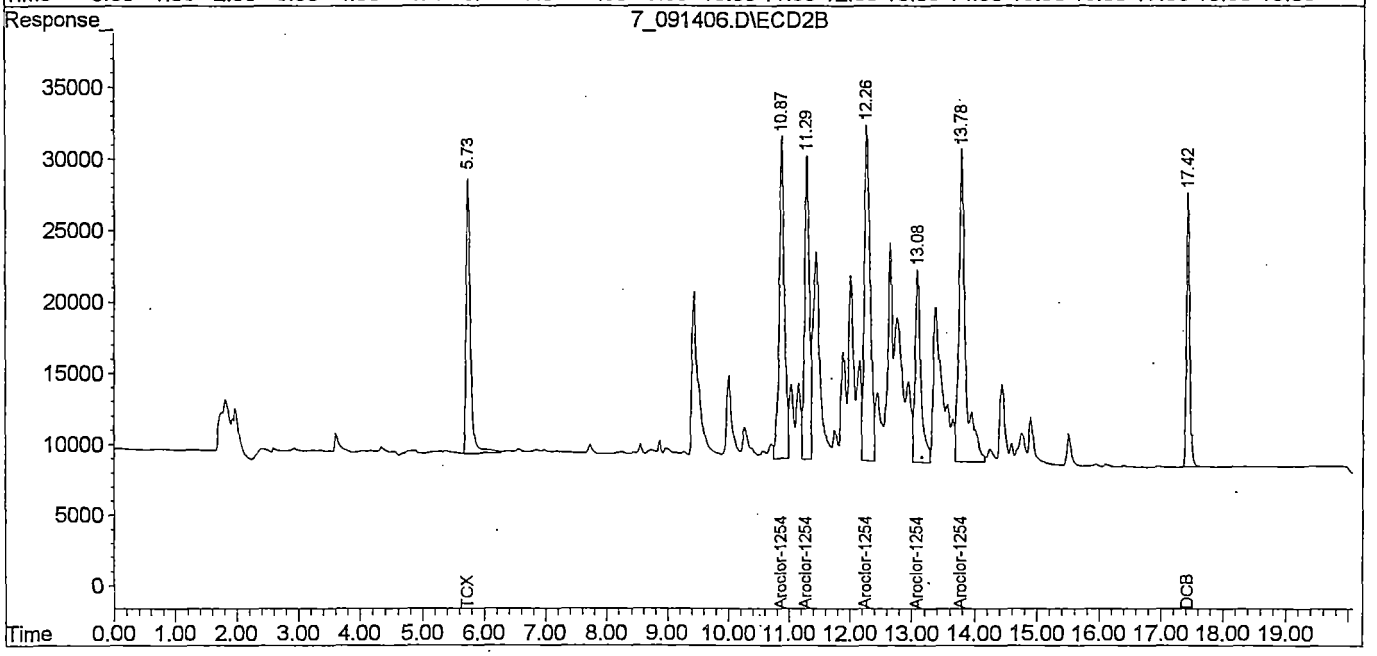
Signal #1 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091406.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091406.D\ECD2B.CH
Acq On : 14 Sep 2001 9:25 Operator: SA
Sample : LD0816SG *ELCS2 * Inst : HP_07
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 9:45 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_14_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-21-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091406.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091406.D\ECD2B.CH
Acq On : 14 Sep 2001 9:25 Operator: SA
Sample : LD0816SG *ELCS2 * Inst : HP_07
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 9:45 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_14_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

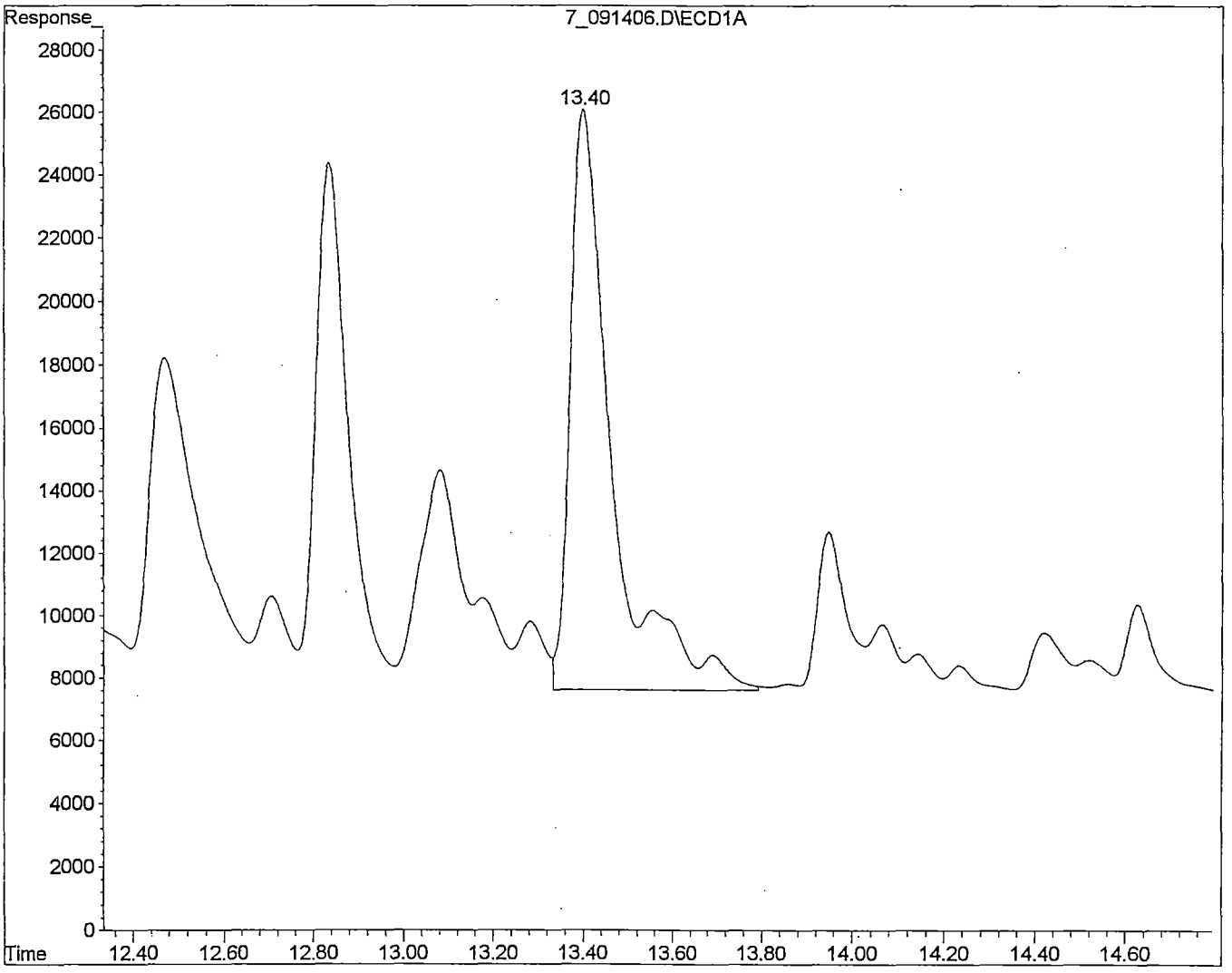
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	703410	961336	5.769	6.174
	Spiked Amount 6.667			Recovery	=	86.54%	92.61%
22)	S DCB	16.90	17.42	584578	700887	9.213	9.688
	Spiked Amount 6.667			Recovery	=	138.20%	145.32%
	Target Compounds:						
12)	L6 Aroclor-1254	10.46	10.88	707497	1326618	145.3	165.1
13)	L6 Aroclor-1254 {2}	11.02	11.29	1204888	1134290	153.1	175.4
14)	L6 Aroclor-1254 {3}	11.87	12.26	1148323	1564184	143.4	123.7
15)	L6 Aroclor-1254 {4}	12.84	13.08	858121	845991	140.5	135.0
16)	L6 Aroclor-1254 {5}	13.40	13.78	1197886	1582547	147.9m	140.3m
	Sum Aroclor-1254			5116714	6453630	730.2	739.4
	Average Aroclor-1254					146.035	147.884

AE 2-17-01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_14_01\7_091406.D
Date Acquired: 14 Sep 2001 9:25
Inst: HP_07 Operator ID: SA
Name: LD0816SG *ELCS2 *
Misc: **30G/5.0ML*0
Method: F:\HPCHEM\HP\7\DATA\09_14_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 9:45 2001 Quant Results File: XPCBI12.RES



09-17-01

Aroclor-1254 {5} 13.40min area: 1197886 m

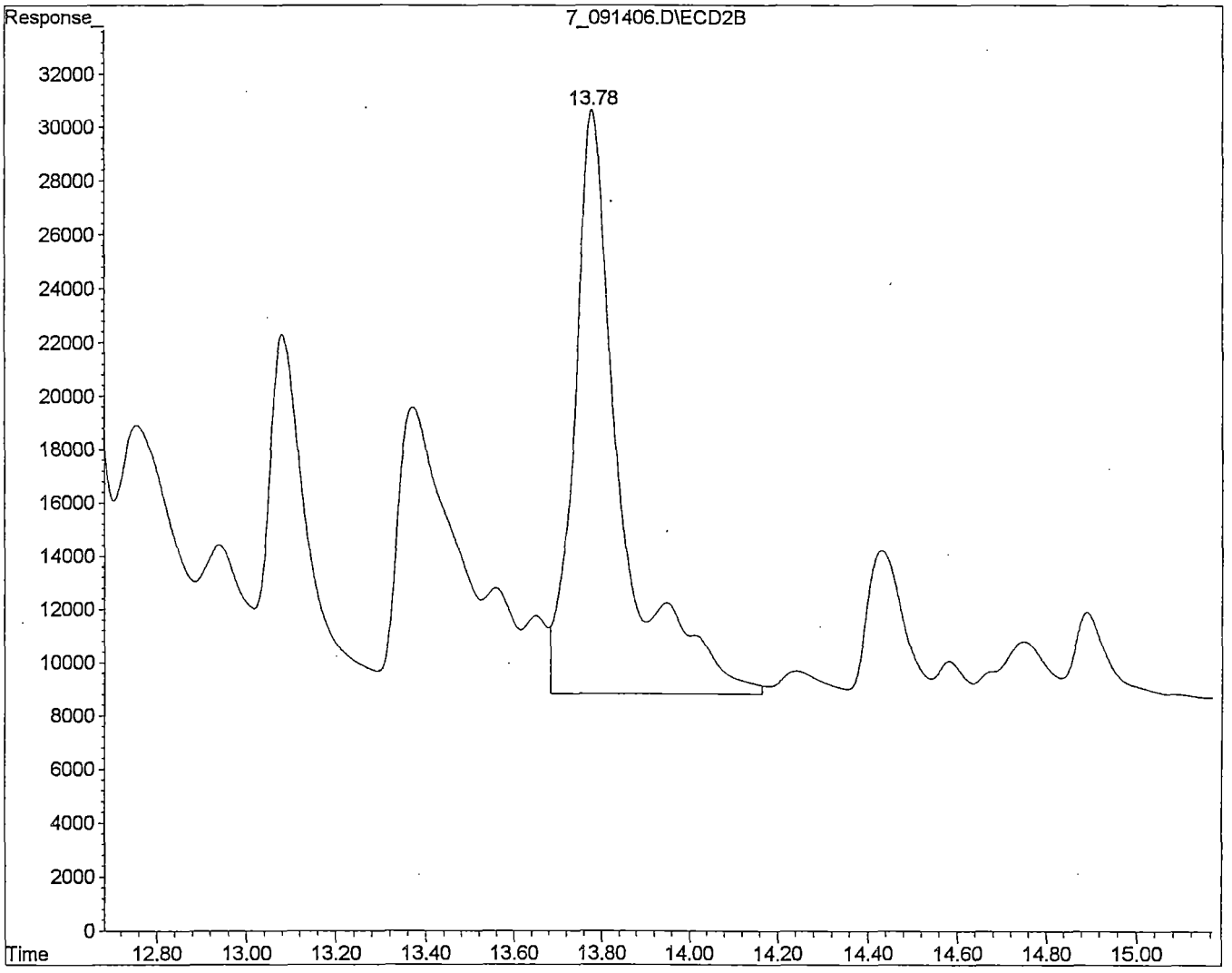
Integration Time Range: 13.33 - 13.79

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_14_01\7_091406.D
Report generated: Mon Sep 17 09:48:06 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_14_01\7_091406.D
Date Acquired: 14 Sep 2001 9:25
Inst: HP_07 Operator ID: SA
Name: LD0816SG *ELCS2 *
Misc: **30G/5.0ML*0
Method: F:\HPCHEM\HP\7\DATA\09_14_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 17 9:45 2001 Quant Results File: XPCBI12.RES



09.17.01

Aroclor-1254 {5} #2 13.78min area: 1582547 m

Integration Time Range: 13.68 - 14.16

OK
9.21.01 (RH)

F:\HPCHEM\HP\7\DATA\09_14_01\7_091406.D
Report generated: Mon Sep 17 09:48:07 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02S8MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) SOIL Lab Sample ID: 47294.15MS

Sample wt/vol: 31.0 (g/mL) G Lab File ID:_____

% Moisture: 56 decanted: (Y/N) __ Date Received: 08/16/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/16/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/19/01

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	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	150	
11096-82-5	Aroclor-1260	73	U
Surrogate amount spiked		14.67	

FORM I PCB

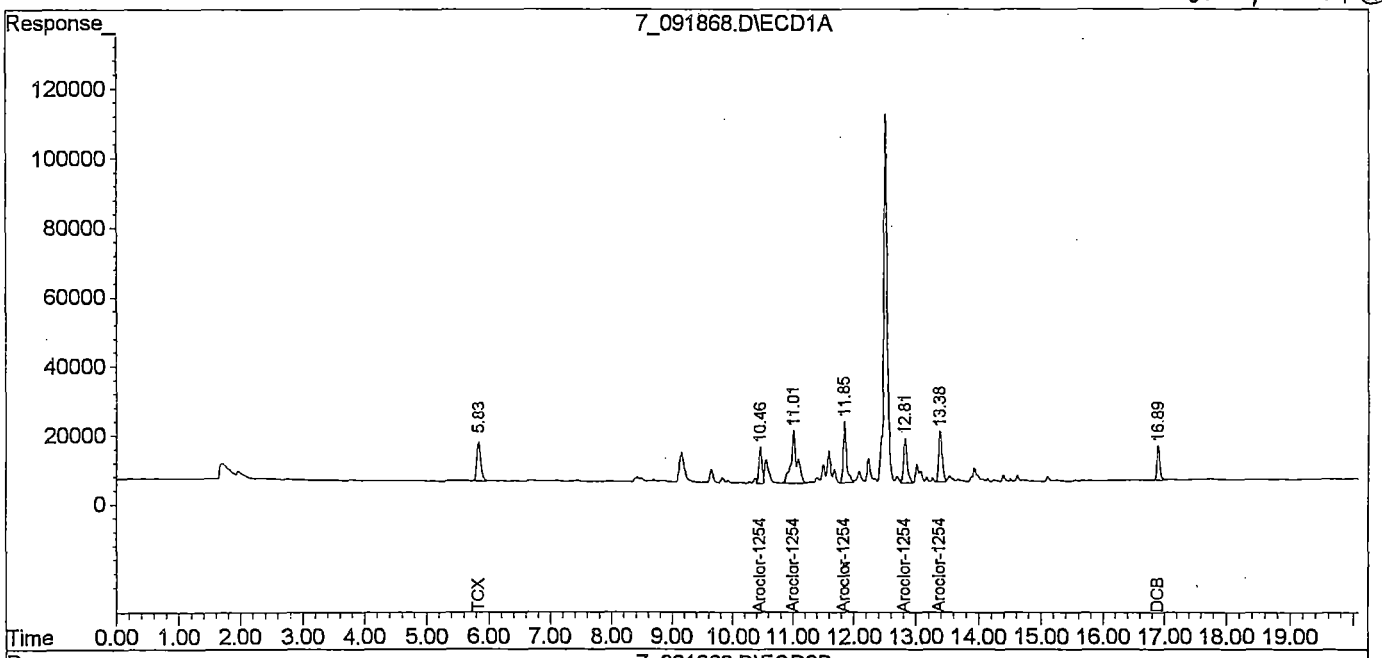
Chromatographic Report

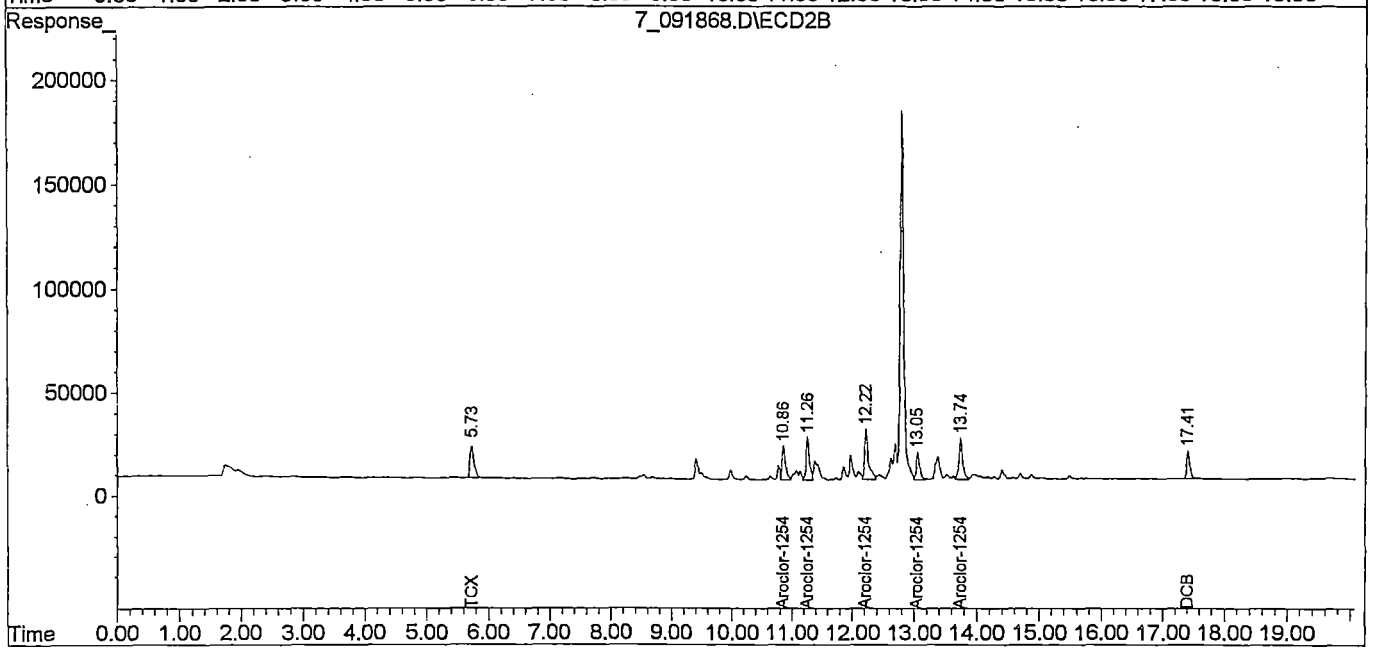
Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091868.D\ECD1A.CH Vial: 43
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091868.D\ECD2B.CH
Acq On : 19 Sep 2001 10:43 Operator: SA
Sample : 47294.15MS *E02S8MS * Inst : HP_07
Misc : *EPA*31G/5.0ML*56 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 7:49 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-21-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091868.D\ECD1A.CH Vial: 43
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091868.D\ECD2B.CH
Acq On : 19 Sep 2001 10:43 Operator: SA
Sample : 47294.15MS *E02S8MS * Inst : HP_07
Misc : *EPA*31G/5.0ML*56 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 7:49 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

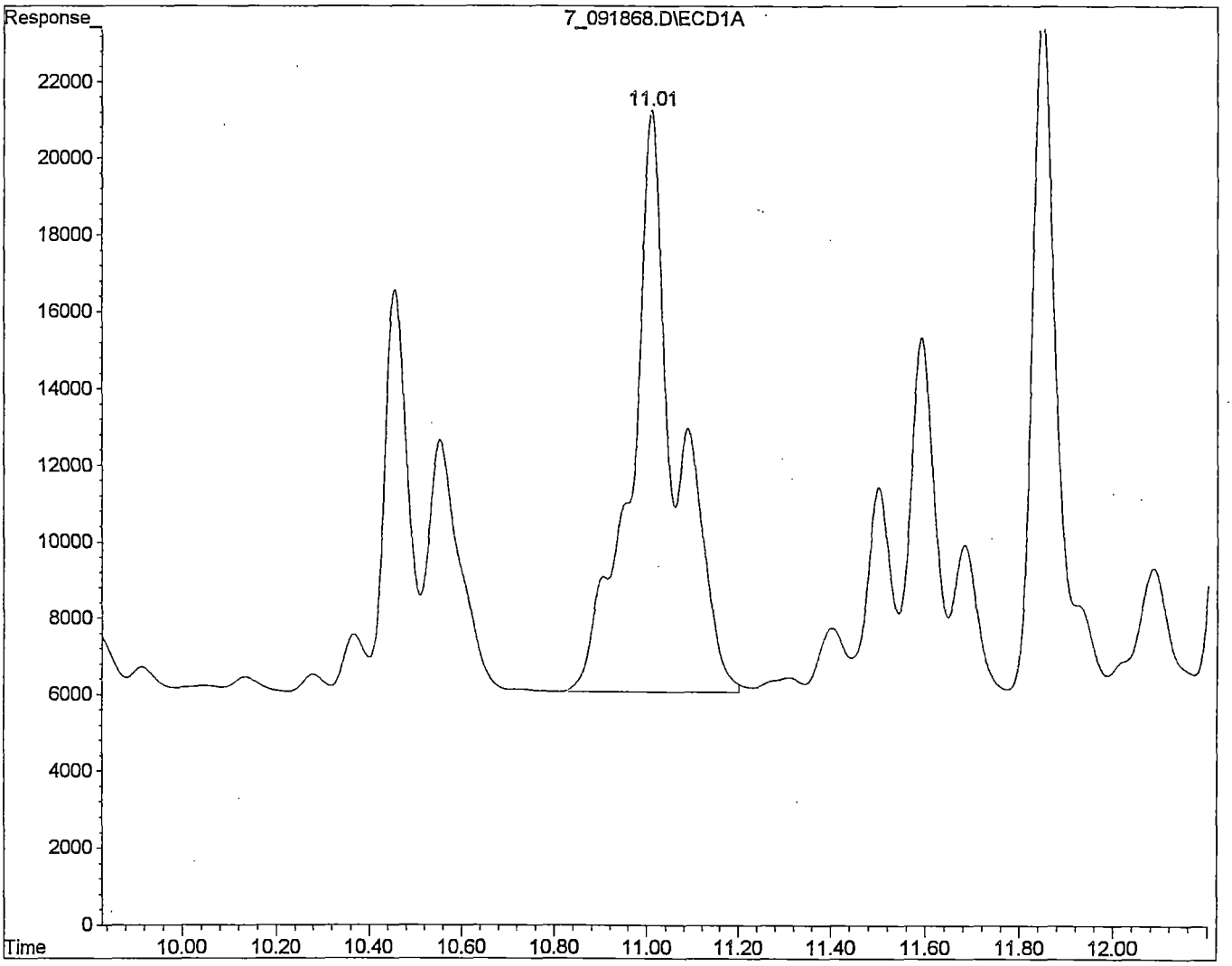
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	527347	716886	8.978	7.985
	Spiked Amount 14.663			Recovery	=	61.23%	54.46%
22)	S DCB	16.89	17.40	308803	481908	9.754	11.9m
	Spiked Amount 14.663			Recovery	=	66.52%	81.16%
	Target Compounds:						
12)	L6 Aroclor-1254	10.46	10.86	367018	672328	147.9	151.6
13)	L6 Aroclor-1254 {2}	11.01	11.26f	1030591	793903	156.7m	210.1 #
14)	L6 Aroclor-1254 {3}	11.85	12.22f	658493	1033870	155.0	146.9
15)	L6 Aroclor-1254 {4}	12.82	13.05f	522786	559546	156.4	153.1
16)	L6 Aroclor-1254 {5}	13.38	13.74f	584964	822134	127.4	124.4
	Sum Aroclor-1254			3163851	3881782	743.4	786.1
	Average Aroclor-1254					148.685	157.222

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091868.D
Date Acquired: 19 Sep 2001 10:43
Inst: HP_07 Operator ID: SA
Name: 47294.15MS *E02S8MS *
Misc: *EPA*31G/5.0ML*56
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 7:49 2001 Quant Results File: XPCBI18.RES



09-20-01

Aroclor-1254 {2} 11.01min area: 1030591 m

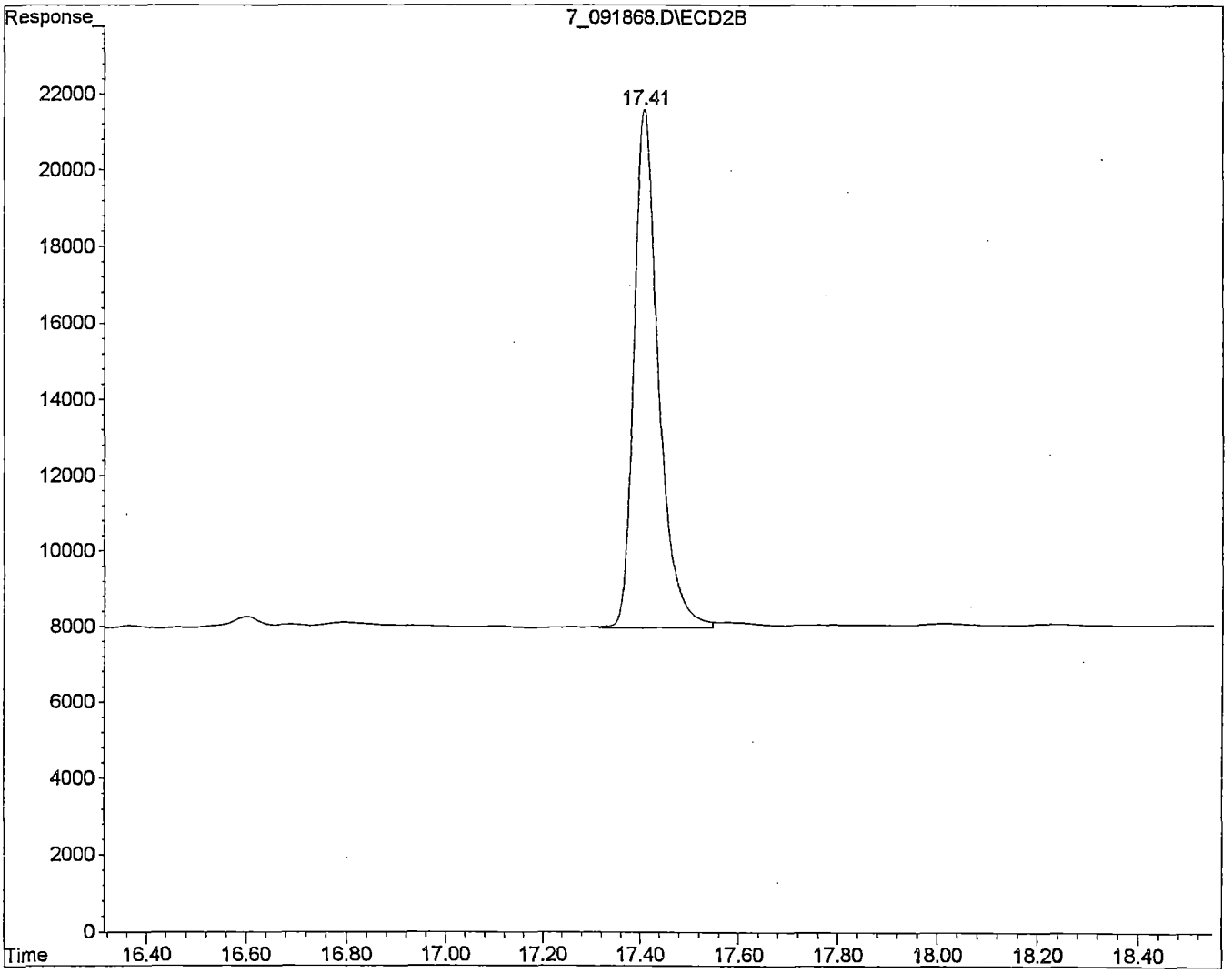
Integration Time Range: 10.83 - 11.20

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_19_01\7_091868.D
Report generated: Thu Sep 20 07:55:36 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091868.D
Date Acquired: 19 Sep 2001 10:43
Inst: HP_07 Operator ID: SA
Name: 47294.15MS *E02S8MS *
Misc: *EPA*31G/5.0ML*56
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 7:49 2001 Quant Results File: XPCBI18.RES



CAG 9-21-01

DCB #2 17.41min area: 481908 m

Integration Time Range: 17.31 - 17.55

ok 9-21-01

F:\HPCHEM\HP\7\DATA\09_19_01\7_091868.D
Report generated: Thu Sep 20 07:55:37 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02S8MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02R5

Matrix: (soil/water) SOIL Lab Sample ID: 47294.16MSD

Sample wt/vol: 31.1 (g/mL) G Lab File ID:_____

% Moisture: 56 decanted: (Y/N) __ Date Received: 08/16/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:08/16/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/19/01

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	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	140	
11096-82-5	Aroclor-1260	72	U
	Surrogate amount spiked	14.61	

FORM I PCB

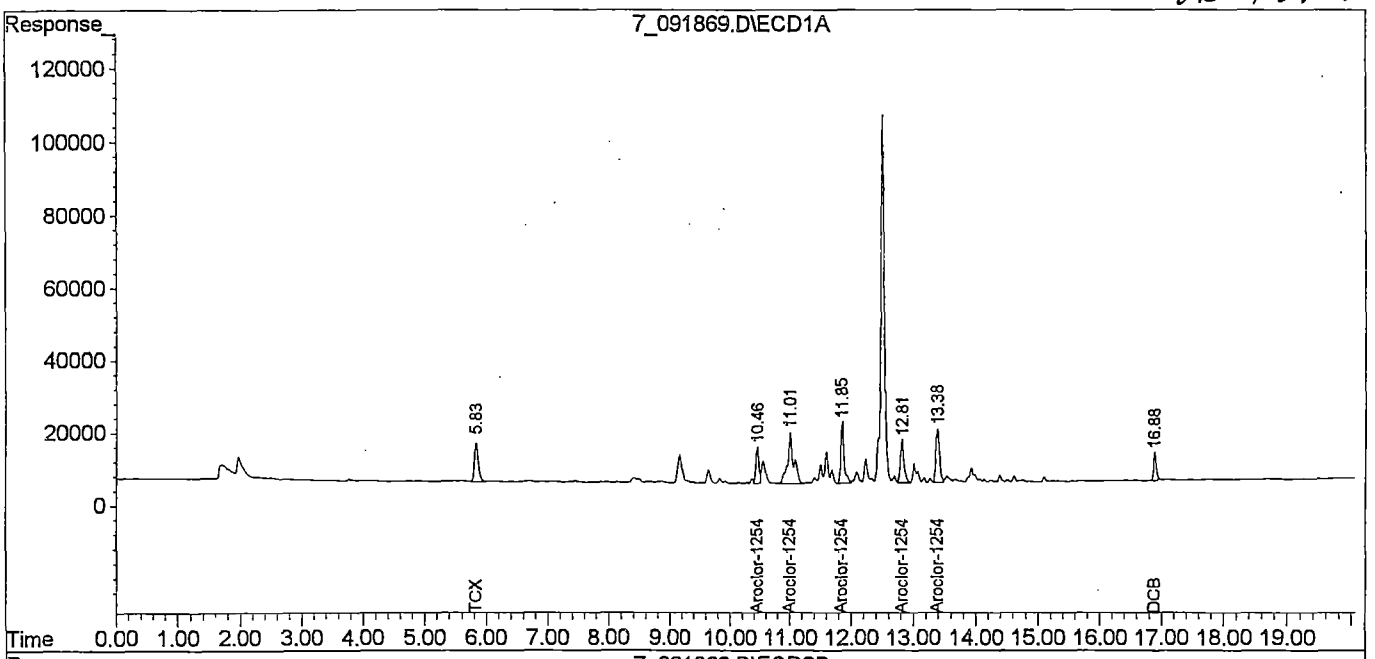
Chromatographic Report

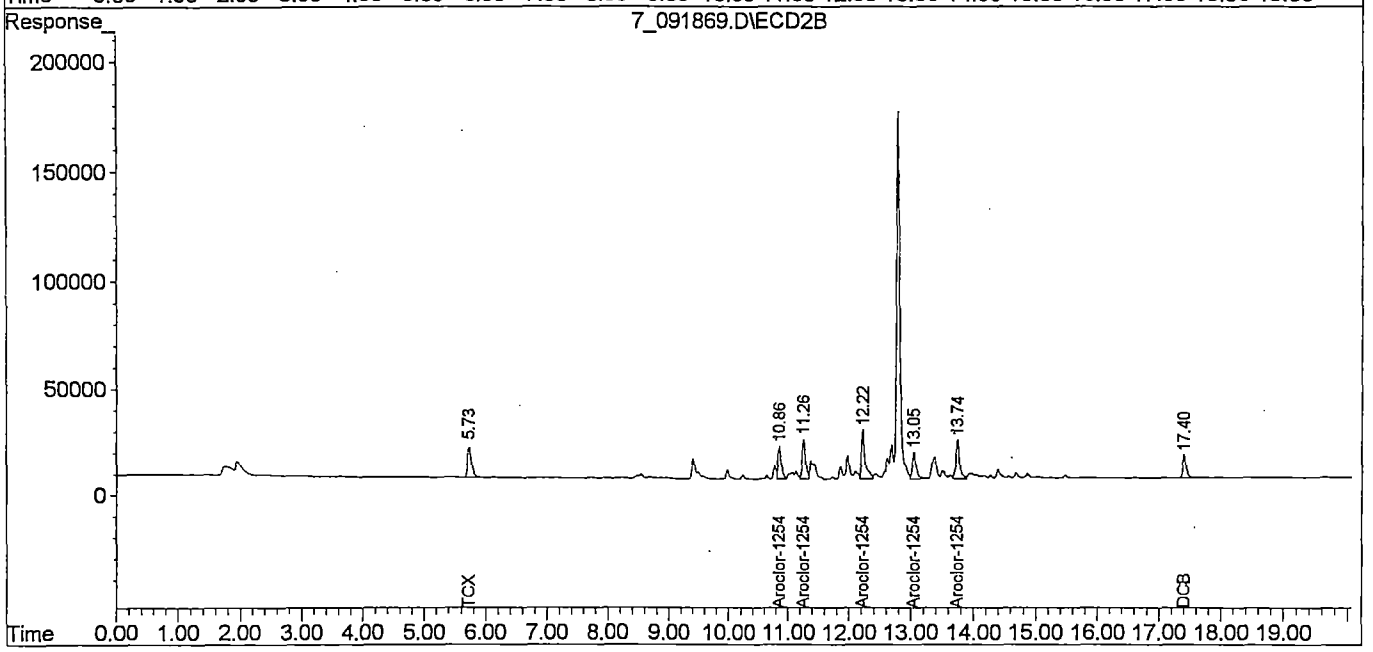
Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091869.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091869.D\ECD2B.CH
Acq On : 19 Sep 2001 , 11:07 Operator: SA
Sample : 47294.16MSD , *E02S8MSD * Inst : HP_07
Misc : *EPA*31.1G/5.0ML*56 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 7:51 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-21-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091869.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091869.D\ECD2B.CH
Acq On : 19 Sep 2001 11:07 Operator: SA
Sample : 47294.16MSD *E02S8MSD * Inst : HP_07
Misc : *EPA*31.1G/5.0ML*56 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 7:51 2001 Quant Results File: XPCBI18.RES

Method : F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

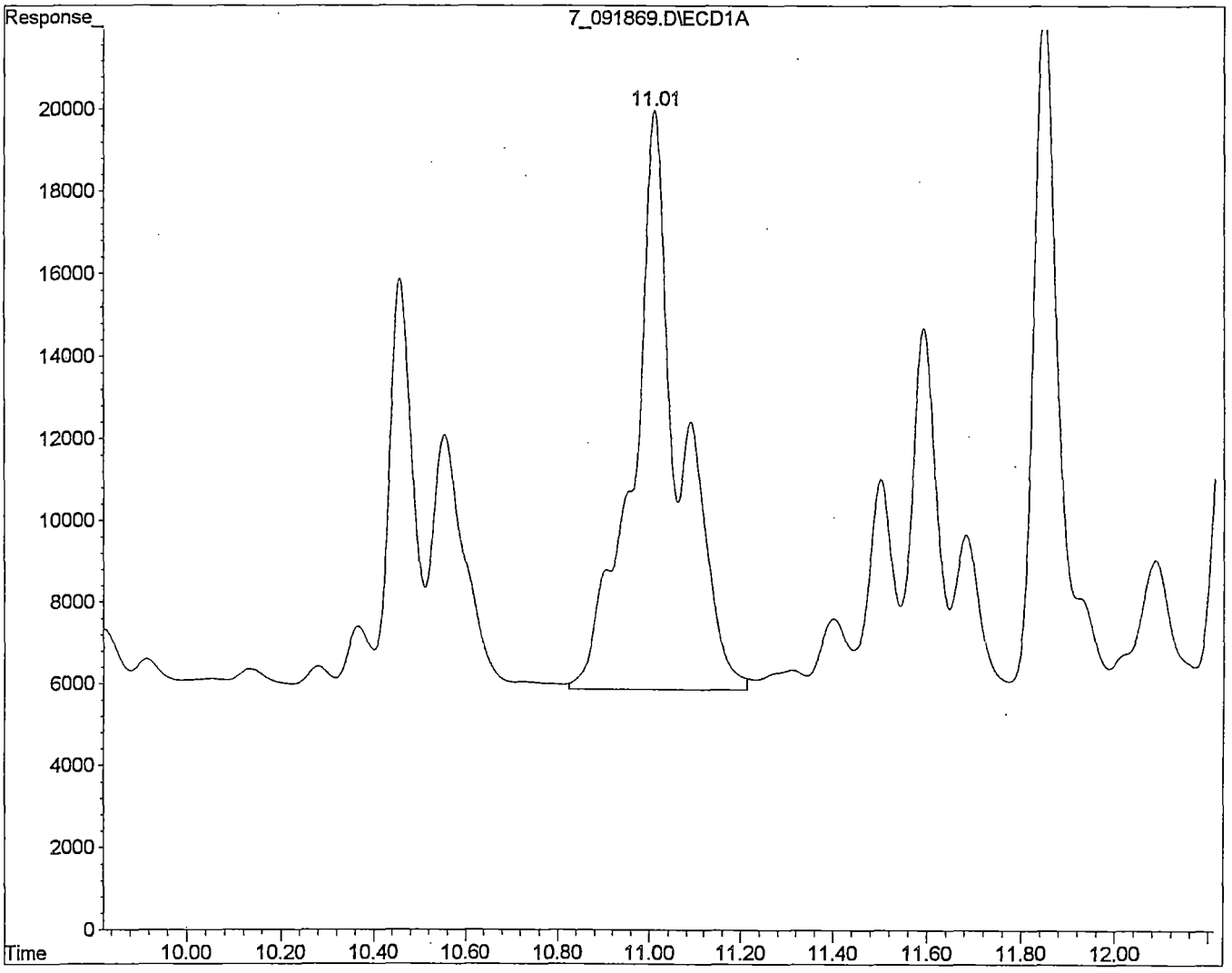
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.83	5.73	477318	642253	8.100	7.131	
	Spiked Amount 14.616			Recovery	=	55.42%	48.79%	
22)	S DCB	16.88	17.40	239104	379072	7.528	9.362m	
	Spiked Amount 14.616			Recovery	=	✓51.51%	✓64.05%	
	Target Compounds:							
12)	L6 Aroclor-1254	10.46	10.86	344740	617263	138.5	138.7	
13)	L6 Aroclor-1254 {2}	11.01	11.26f	989382	729365	149.9m	192.4	#
14)	L6 Aroclor-1254 {3}	11.85	12.22f	616710	966834	144.7	136.9	
15)	L6 Aroclor-1254 {4}	12.81	13.05f	484774	526994	144.6	143.7	
16)	L6 Aroclor-1254 {5}	13.38	13.74f	587409	749048	127.6	113.0	
	Sum Aroclor-1254			3023015	3589505	705.2	724.8	
	Average Aroclor-1254					141.047	144.957	

09.24.01

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

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091869.D
Date Acquired: 19 Sep 2001 11:07
Inst: HP_07 Operator ID: SA
Name: 47294.16MSD *E02S8MSD *
Misc: *EPA*31.1G/5.0ML*56
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 7:51 2001 Quant Results File: XPCBI18.RES



09-20-01

Aroclor-1254 {2} 11.01min area: 989382 m

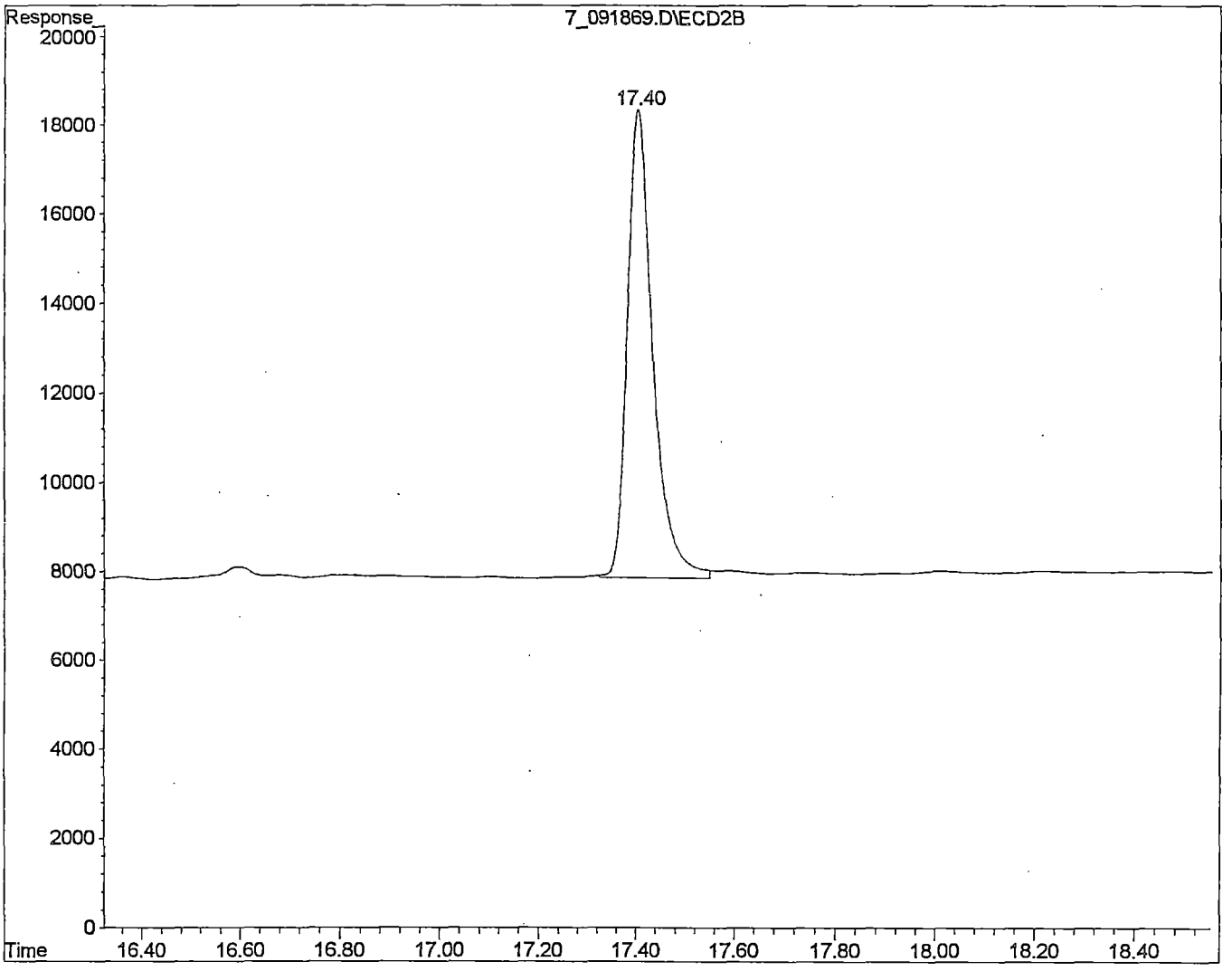
Integration Time Range: 10.82 - 11.21

OK 9-21-01 CR

F:\HPCHEM\HP\7\DATA\09_19_01\7_091869.D
Report generated: Thu Sep 20 07:55:39 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091869.D
Date Acquired: 19 Sep 2001 11:07
Inst: HP_07 Operator ID: SA
Name: 47294.16MSD *E02S8MSD *
Misc: *EPA*31.1G/5.0ML*56
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 20 7:51 2001 Quant Results File: XPCBI18.RES



DCB #2 17.40min area: 379072 m

Integration Time Range: 17.32 - 17.55

OK 9-21-01

F:\HPCHEM\HP\7\DATA\09_19_01\7_091869.D
Report generated: Thu Sep 20 07:55:40 2001

Gel Permeation Chromatography (GPC) Run Log - GPC1

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 418002 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case#

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
08/22/01 11:15	1	CAL STD (INITIAL)	1_082201	
08/22/01 11:46	2	SB	1_082202	
08/22/01 12:17	3	SB	1_082203	
08/22/01 12:48	4	SB	1_082204	
08/22/01 13:19	5	SB	1_082205	
08/22/01 13:50	6	SB#082201A (PEST)	1_082206	
08/22/01 14:21	7	SB#082201B (PEST)	1_082207	
08/22/01 14:53	8	BL0816SG-EPA	1_082208	
08/22/01 15:24	9	BB0816SG-EPA	1_082209	
08/22/01 15:55	10	LC0816SG-EPA	1_082210	
08/22/01 16:26	11	LD0816SG-EPA	1_082211	
08/22/01 16:57	12	47294.05-E02R9-EPA	1_082212	
08/22/01 17:28	13	47294.08-E02S2-EPA	1_082213	
08/22/01 17:59	14	47294.09-E02S3-EPA	1_082214	
08/22/01 18:30	15	47294.10-E02S4-EPA	1_082215	
08/22/01 19:01	16	47294.01-E02R5-EPA	1_082216	
08/22/01 19:31	17	47294.02-E02R6-EPA	1_082217	
08/22/01 20:03	18	47294.03-E02R7-EPA	1_082218	
08/22/01 20:33	19	47294.04-E02R8-EPA	1_082219	
08/22/01 21:04	20	47294.06-E02S0-EPA	1_082220	
08/22/01 21:35	21	47294.07-E02S1-EPA	1_082221	

8/24/01 8/24/01

Verification Signature/Date Analyst Signature/Date

Book: OE-102-16-RUN- Page No.: 9

Gel Permeation Chromatography (GPC) Run Log - GPC1

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 418002 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case#

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
08/22/01 22:07	22	47294.11-E02S5-EPA	1_082222	
08/22/01 22:37	23	47294.12-E02S6-EPA	1_082223	
08/22/01 23:08	24	47294.13-E02S7-EPA	1_082224	
08/22/01 23:39	25	47294.14-E02S8-EPA	1_082225	
08/23/01 00:10	26	47294.15-E02S8MS-EPA	1_082226	
08/23/01 00:41	27	47294.16-E02S8MSD-EPA	1_082227	
08/23/01 01:12	28	SB	1_082228	
08/23/01 01:43	29	SB	1_082229	
08/23/01 02:14	30	SB	1_082230	
08/23/01 02:45	31	SB	1_082231	
08/23/01 03:17	32	CAL STD (FINAL)	1_082232	

Compound	Initial RT	Final RT	% Difference
Phthalate	13.98	13.89	0.64
Methoxychlor	15.57	15.44	0.83
Perylene	20.21		

8/23/2001

Verification Signature/Date

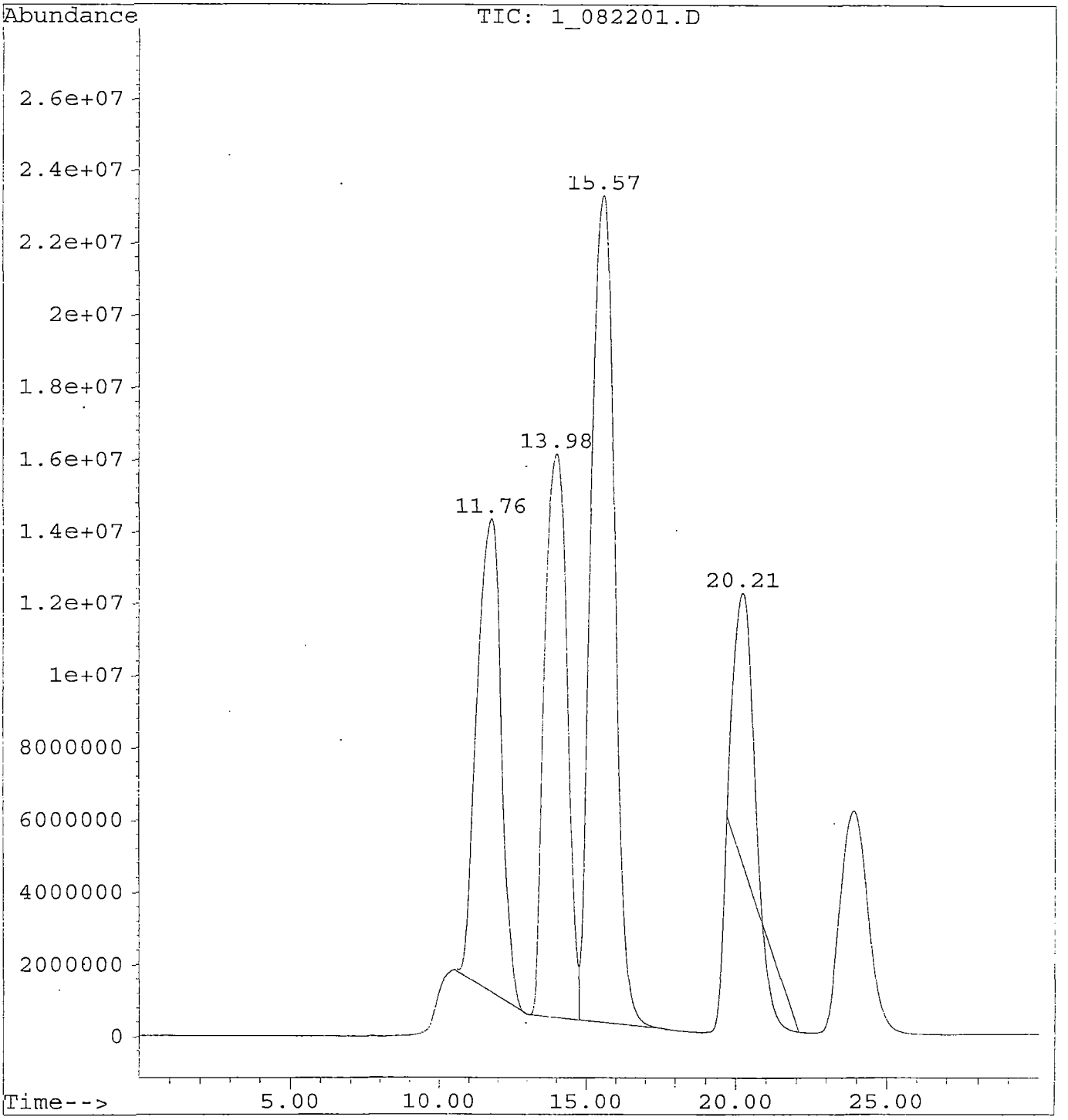
8/24/01

Analyst Signature/Date

Book: OE-102-16-RUN- Page No.: 10

Data File : C:\HPCHEM\5\DATA\082201\1_082201.D
Acq On : 22 Aug 01 11:15 AM
Sample : CAL STD (INITIAL)
Misc : COL# 418002

Vial: 1
Operator: CR COL#
Inst : GPC1
Multiplr: 1.00



5) 11.76 = Corn Oil

Chromatographic Resolution Report

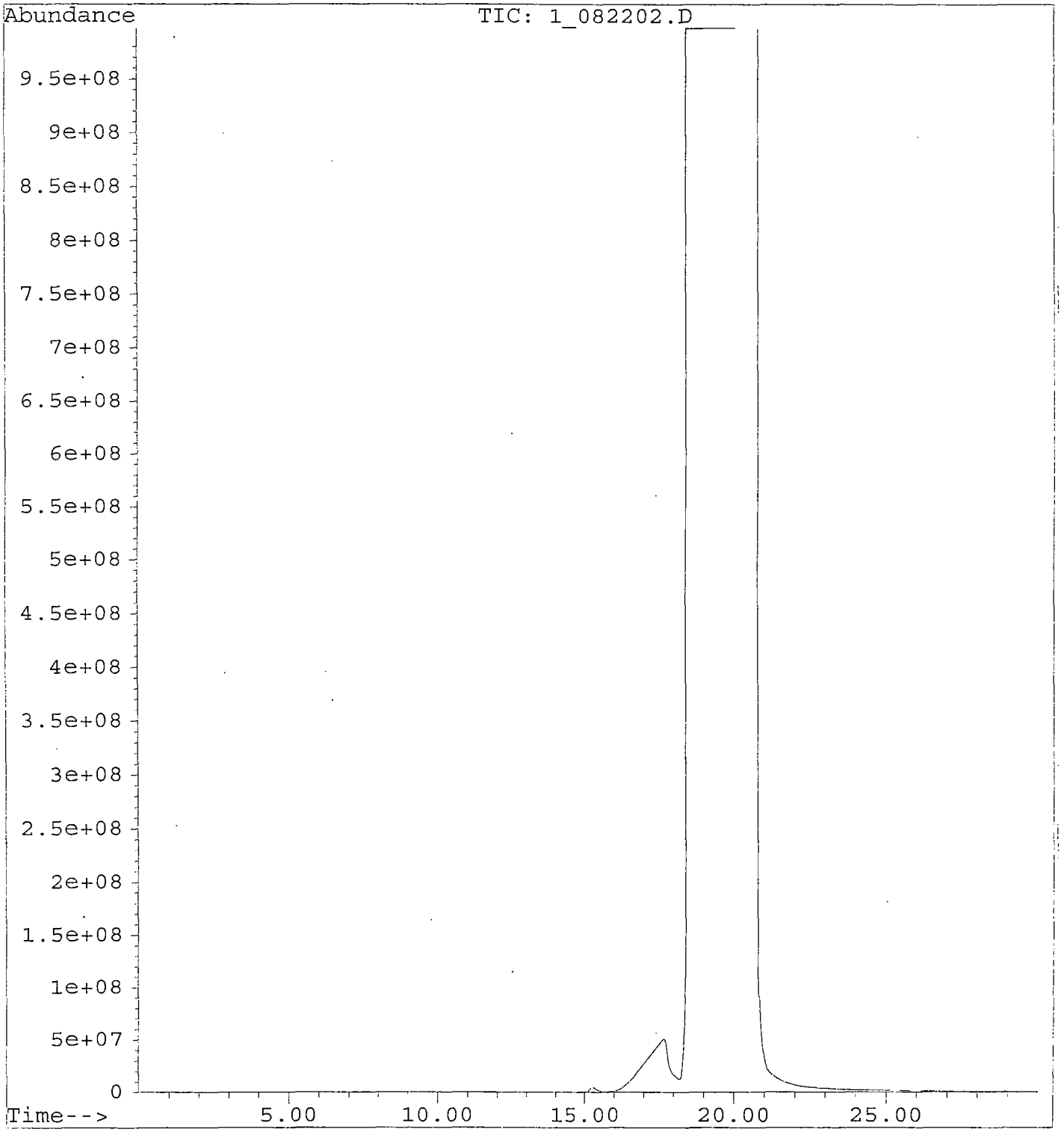
Data File : C:\HPCHEM\5\DATA\082201\1_082201.D
Acq On : 22 Aug 01 11:15
Sample : CAL STD (INITIAL)
Misc : COL# 418002

Vial: 1
Operator: CR COL# 41
Inst : GPC1
Multiplr: 1.00

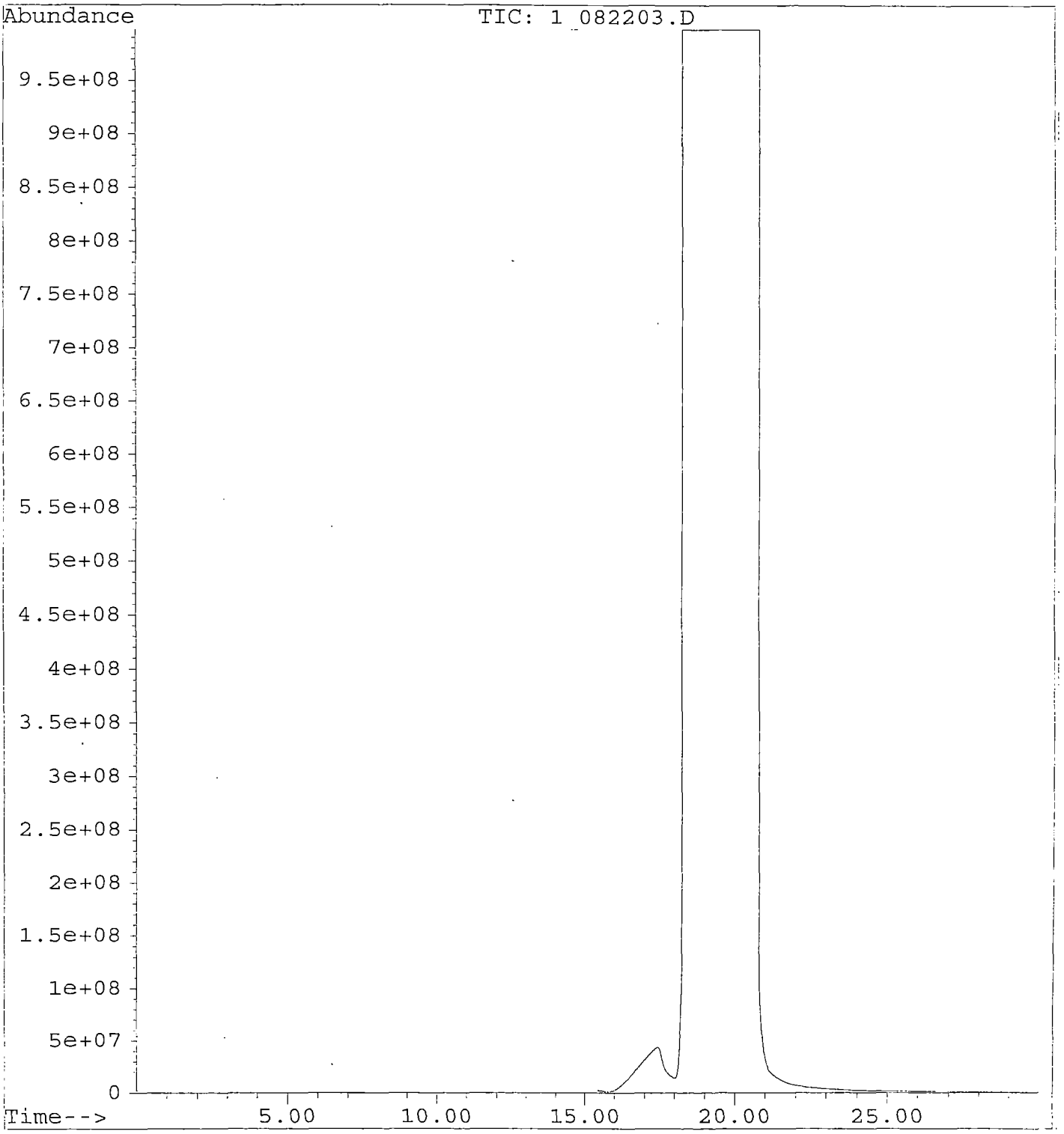
Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.763	13.983	100.00
13.983	15.574	90.93
15.574	20.212	100.00

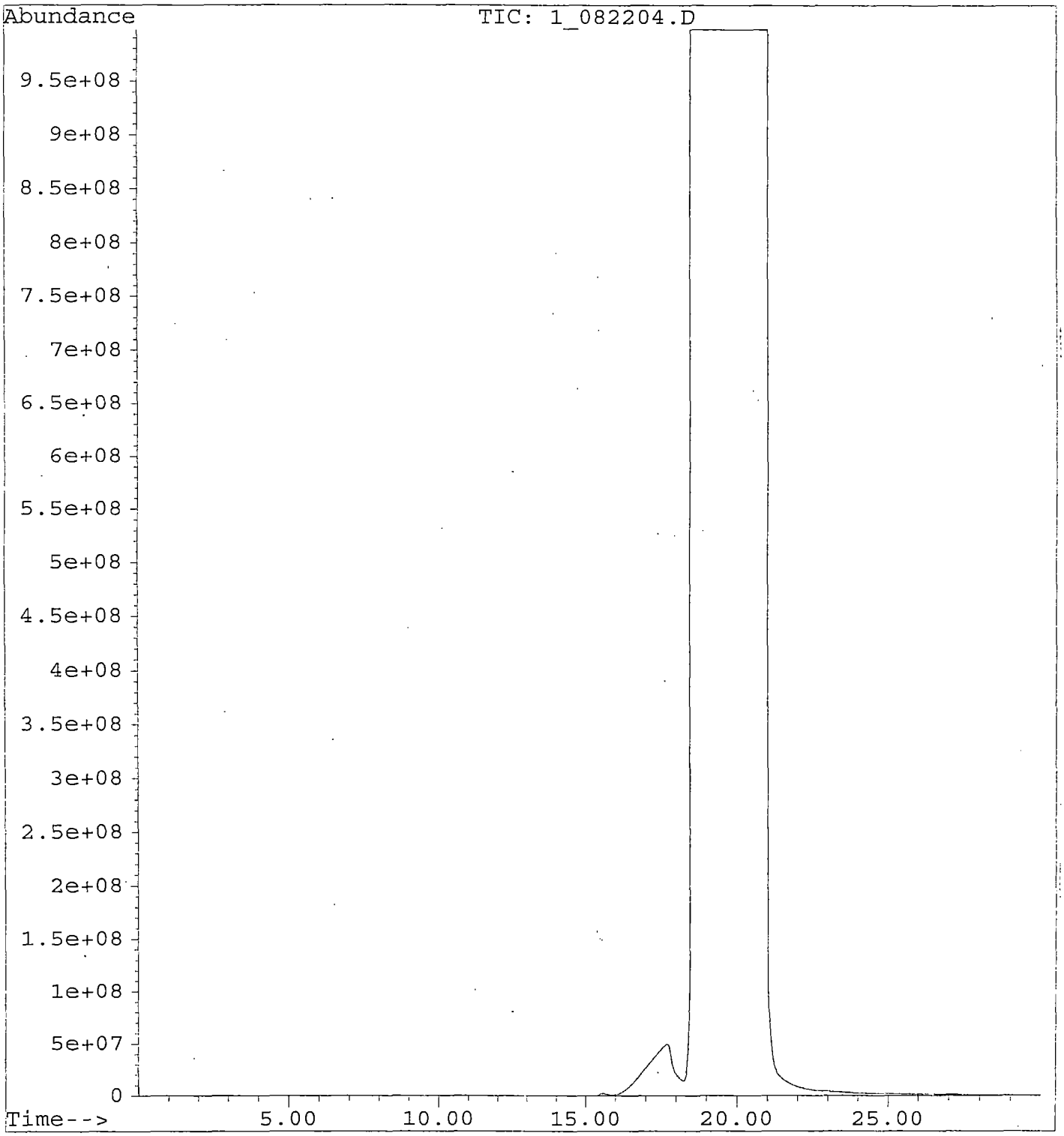
File : C:\HPCHEM\5\DATA\082201\1_082202.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 11:46 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 2



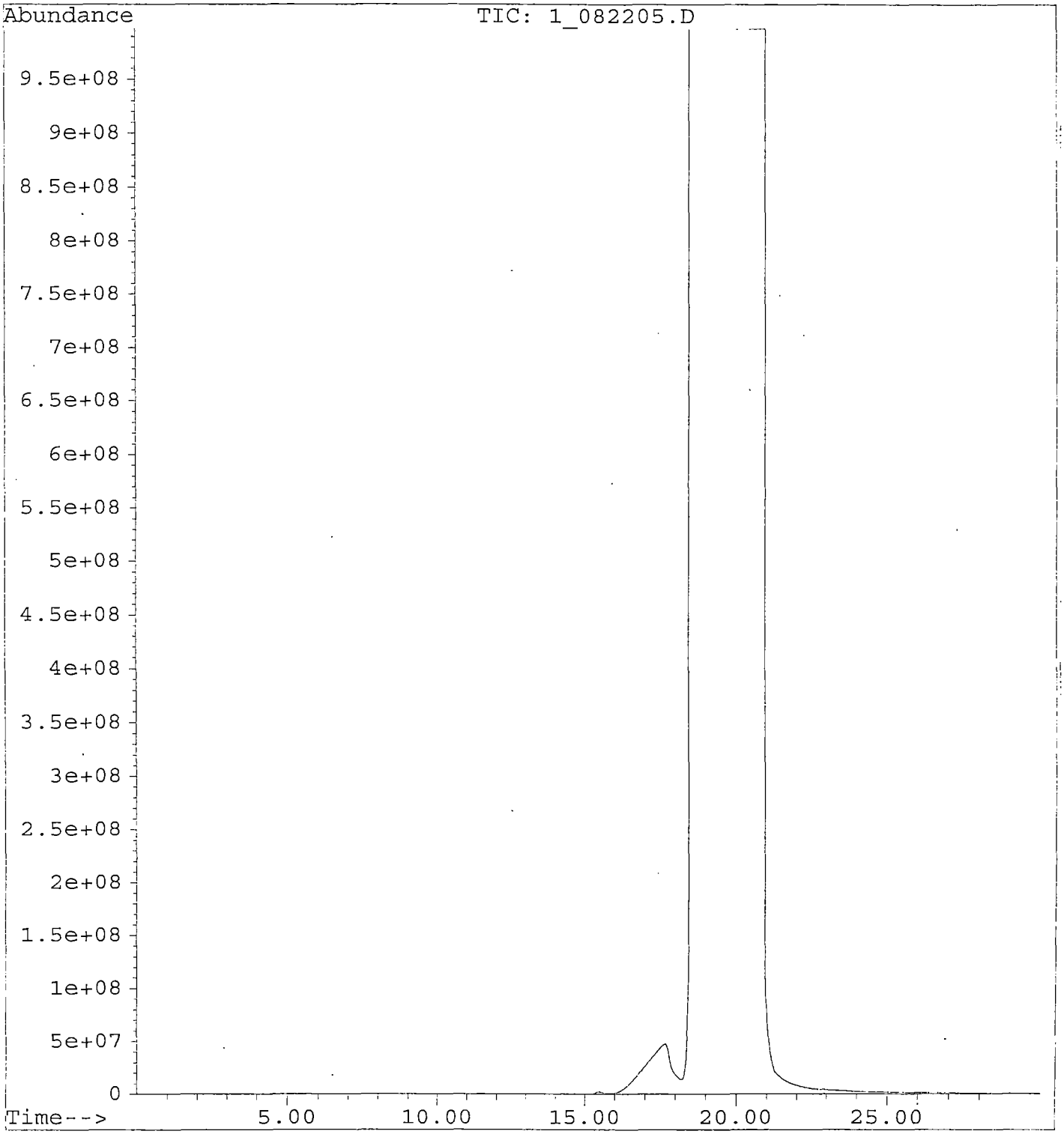
File : C:\HPCHEM\5\DATA\082201\1_082203.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 12:17 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 3



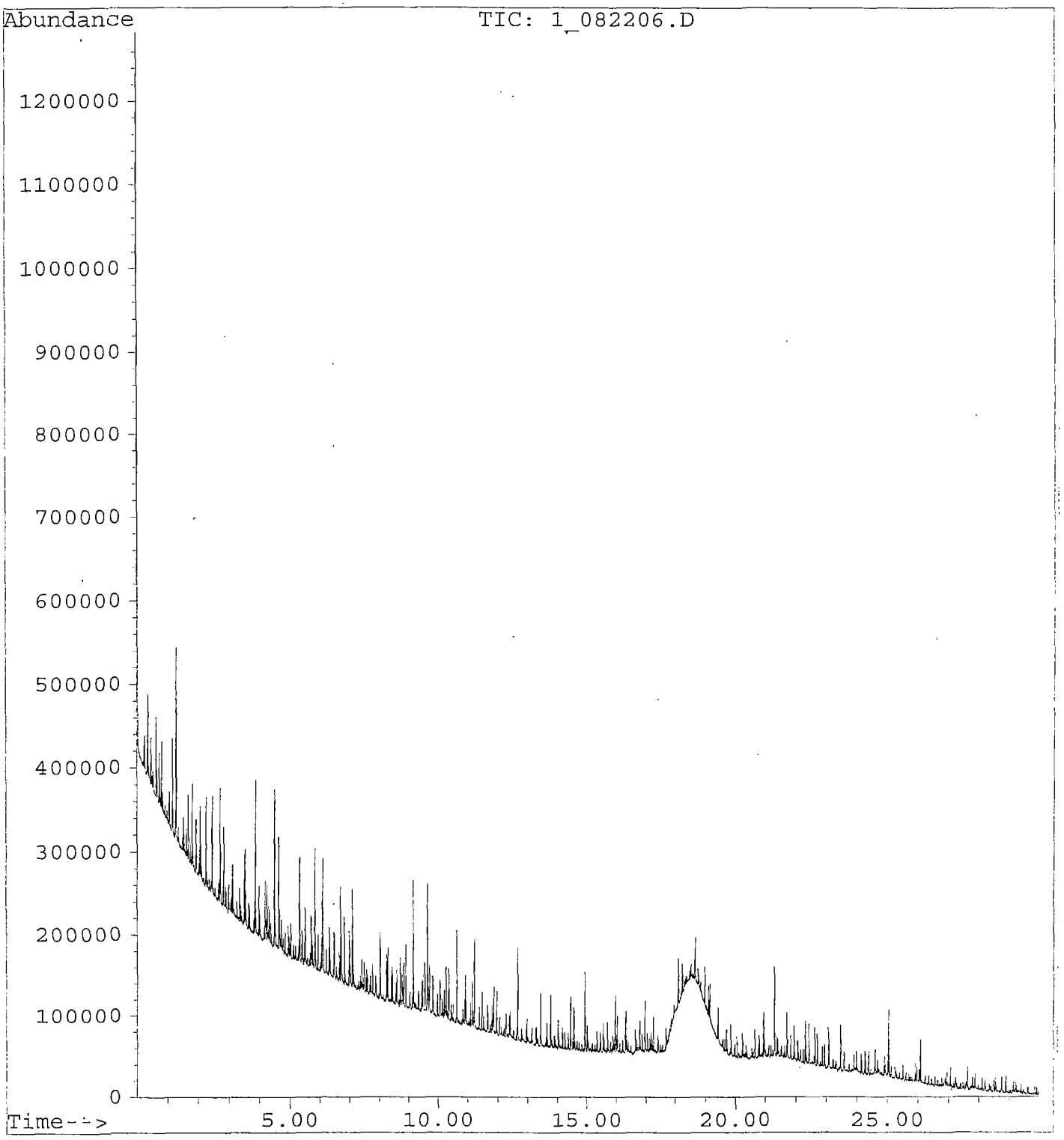
File : C:\HPCHEM\5\DATA\082201\1_082204.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 12:48 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 4



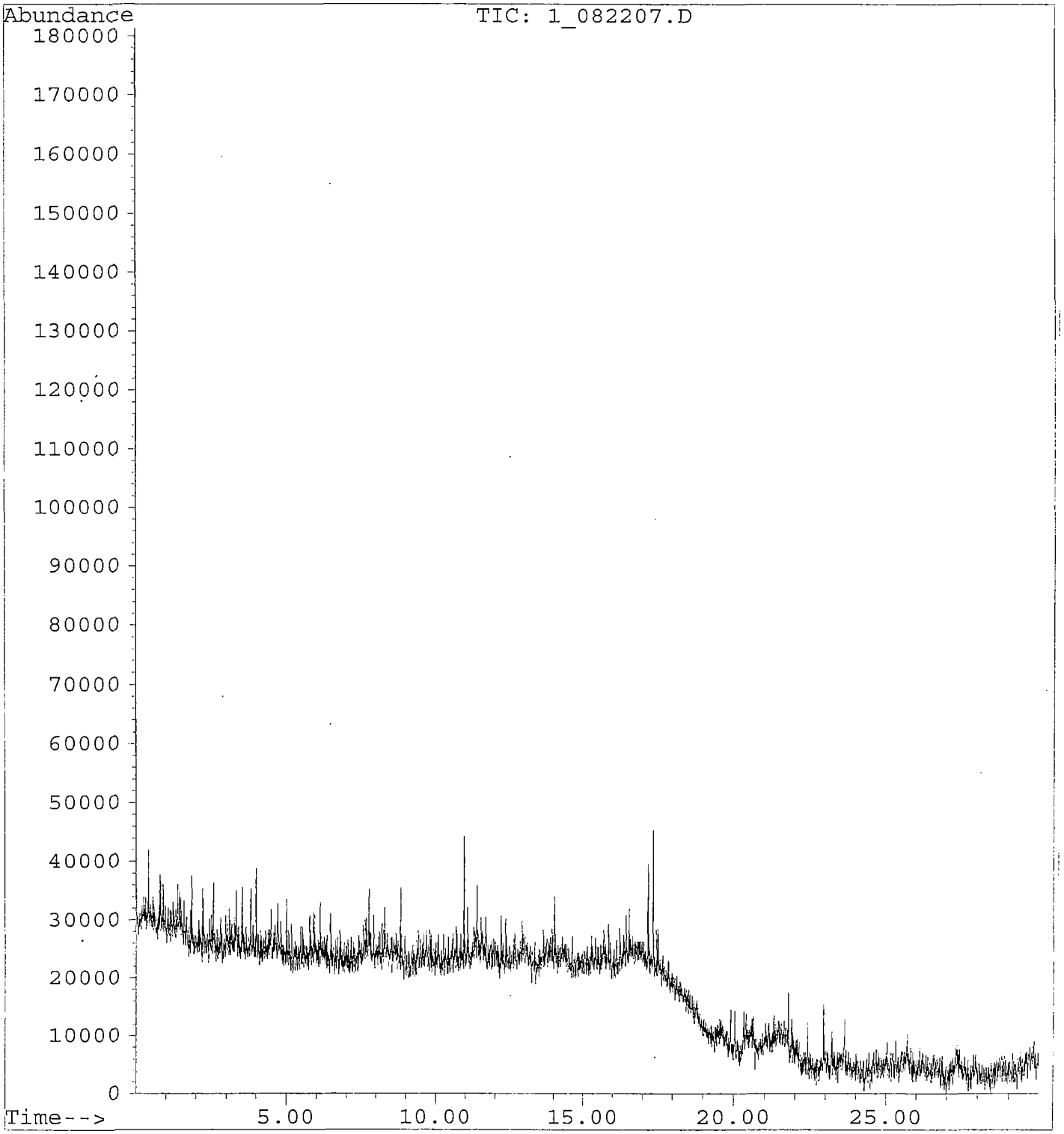
File : C:\HPCHEM\5\DATA\082201\1_082205.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 13:19 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 5



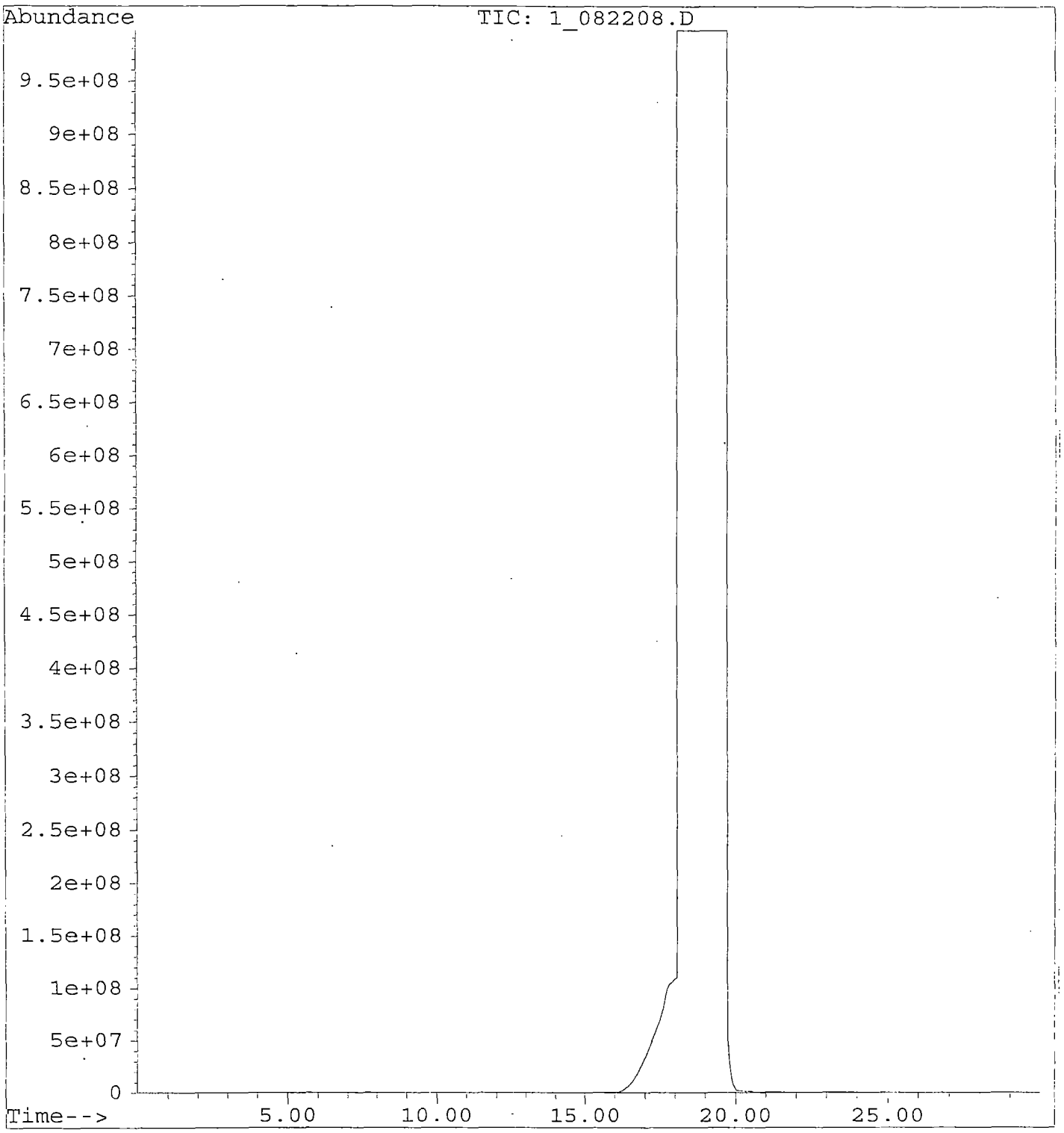
File : C:\HPCHEM\5\DATA\082201\1_082206.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 13:50 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB#082201A (PEST)
Misc Info : COL# 418002
Vial Number: 6



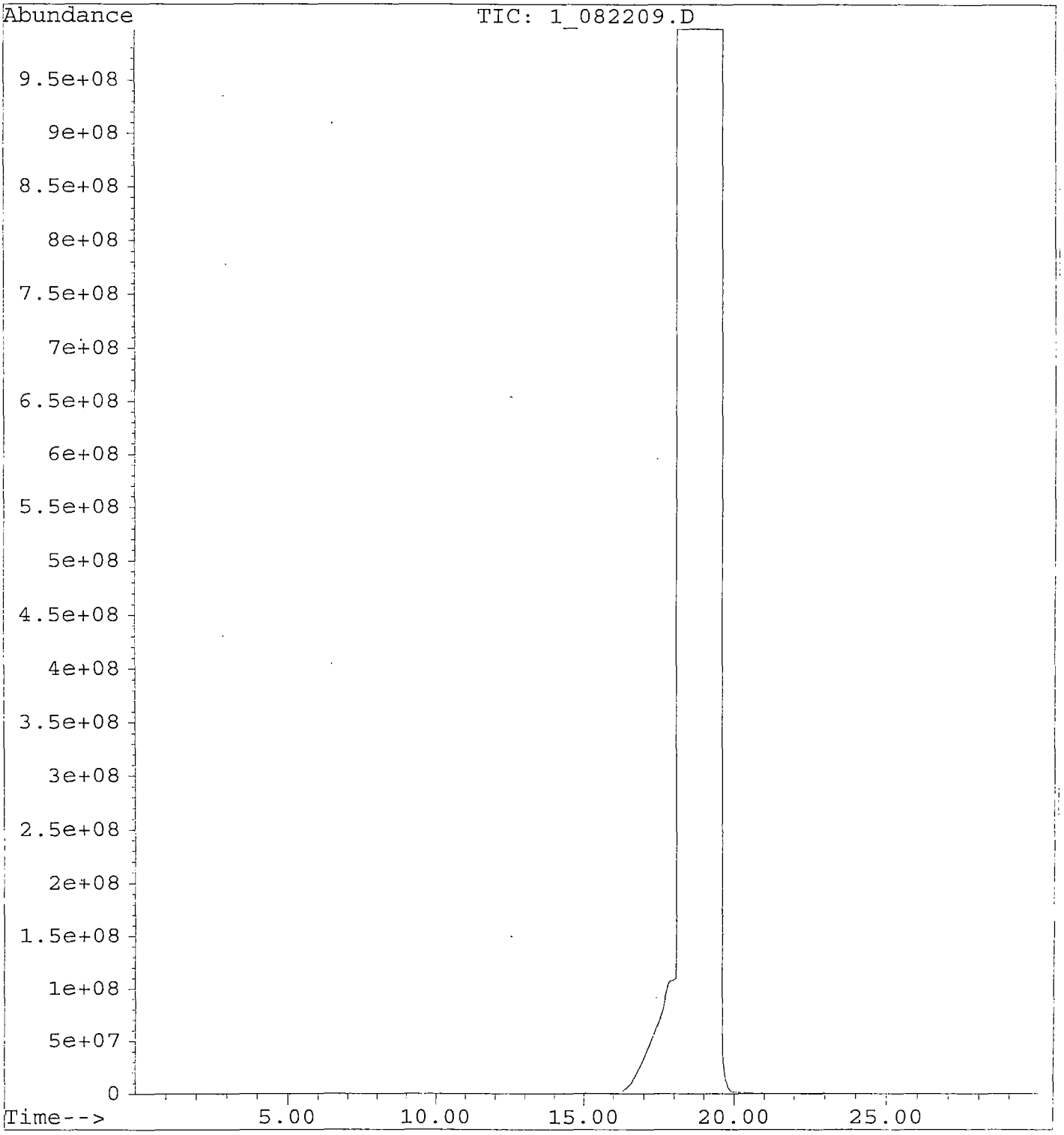
File : C:\HPCHEM\5\DATA\082201\1_082207.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 14:21 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB#082201B (PEST)
Misc Info : COL# 418002
Vial Number: 7



File : C:\HPCHEM\5\DATA\082201\1_082208.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 14:53 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: BL0816SG-EPA
Misc Info : COL# 418002
Vial Number: 8



File : C:\HPCHEM\5\DATA\082201\1_082209.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 15:24 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: BB0816SG-EPA
Misc Info : COL# 418002
Vial Number: 9



[illegible] 082210.D
Operator [illegible] COL# 418002
Acquired [illegible] Aug [illegible]
Instrument: GPC1
[illegible] Phase: [illegible]-2PA
[illegible] COL# 418002
[illegible] Number: 10

Abundance [illegible] TIC: [illegible]

9.0e+[illegible]

5e+08

4.0e+08

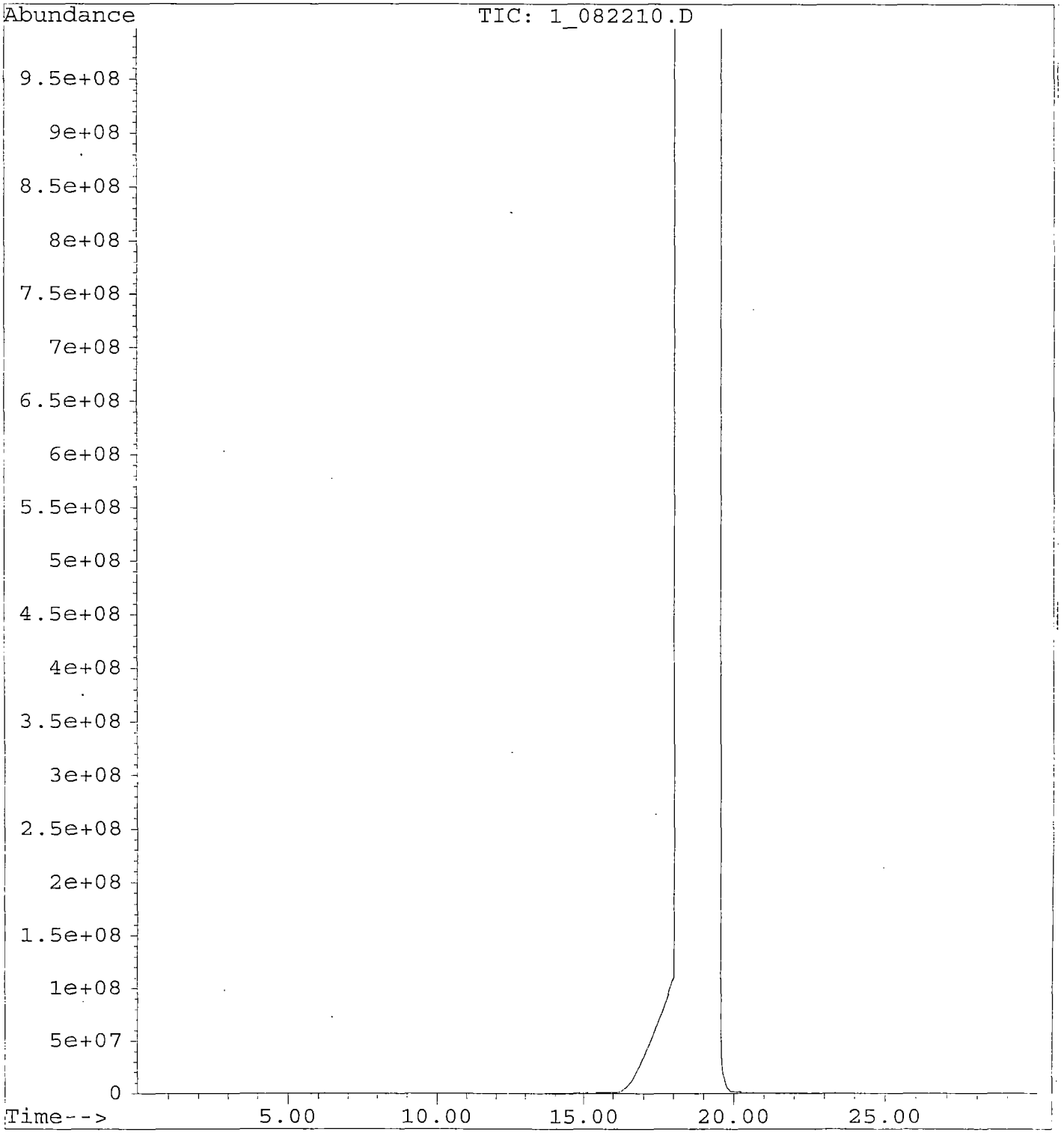
4e+08

[illegible]

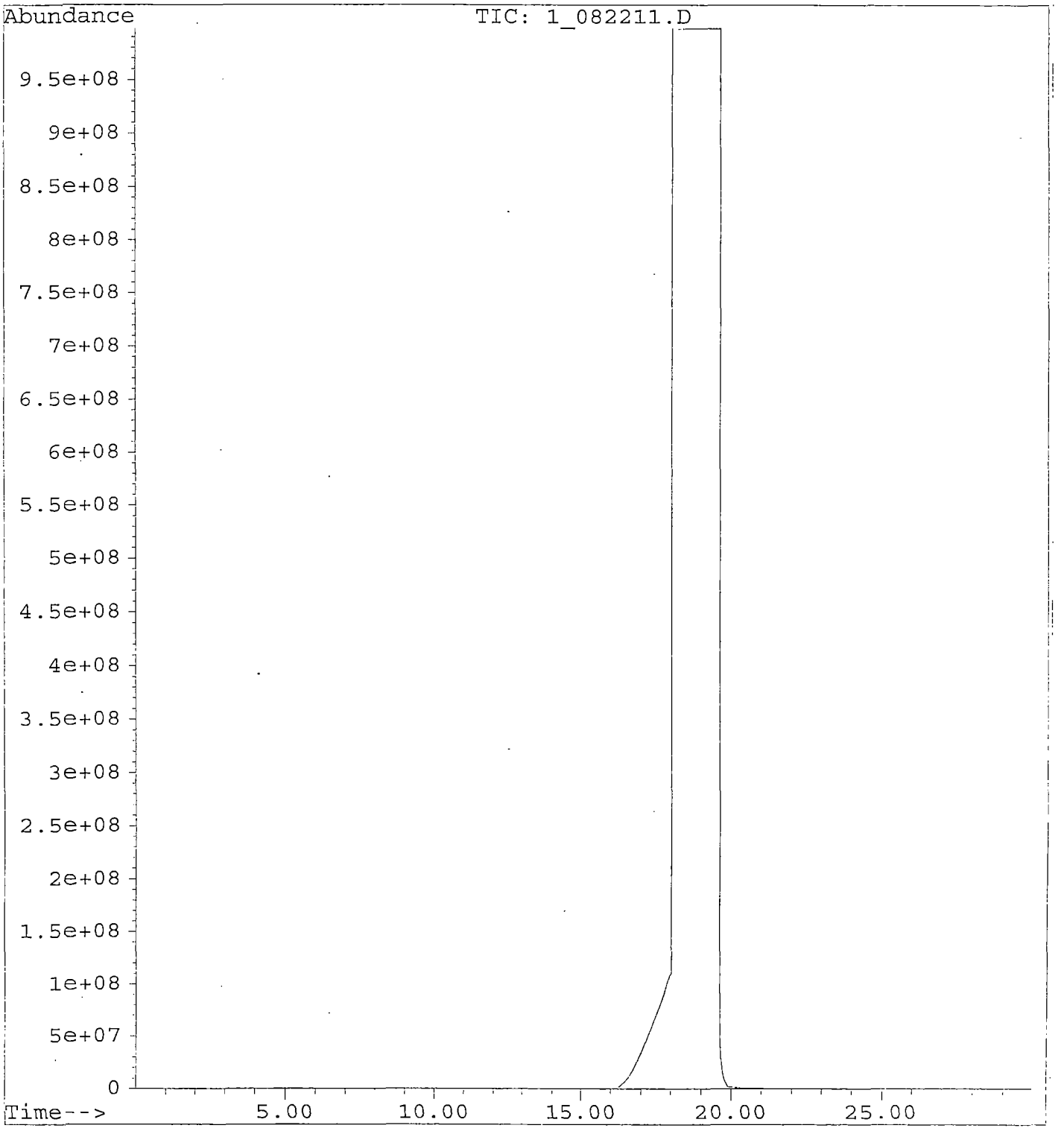
[illegible]

[illegible]

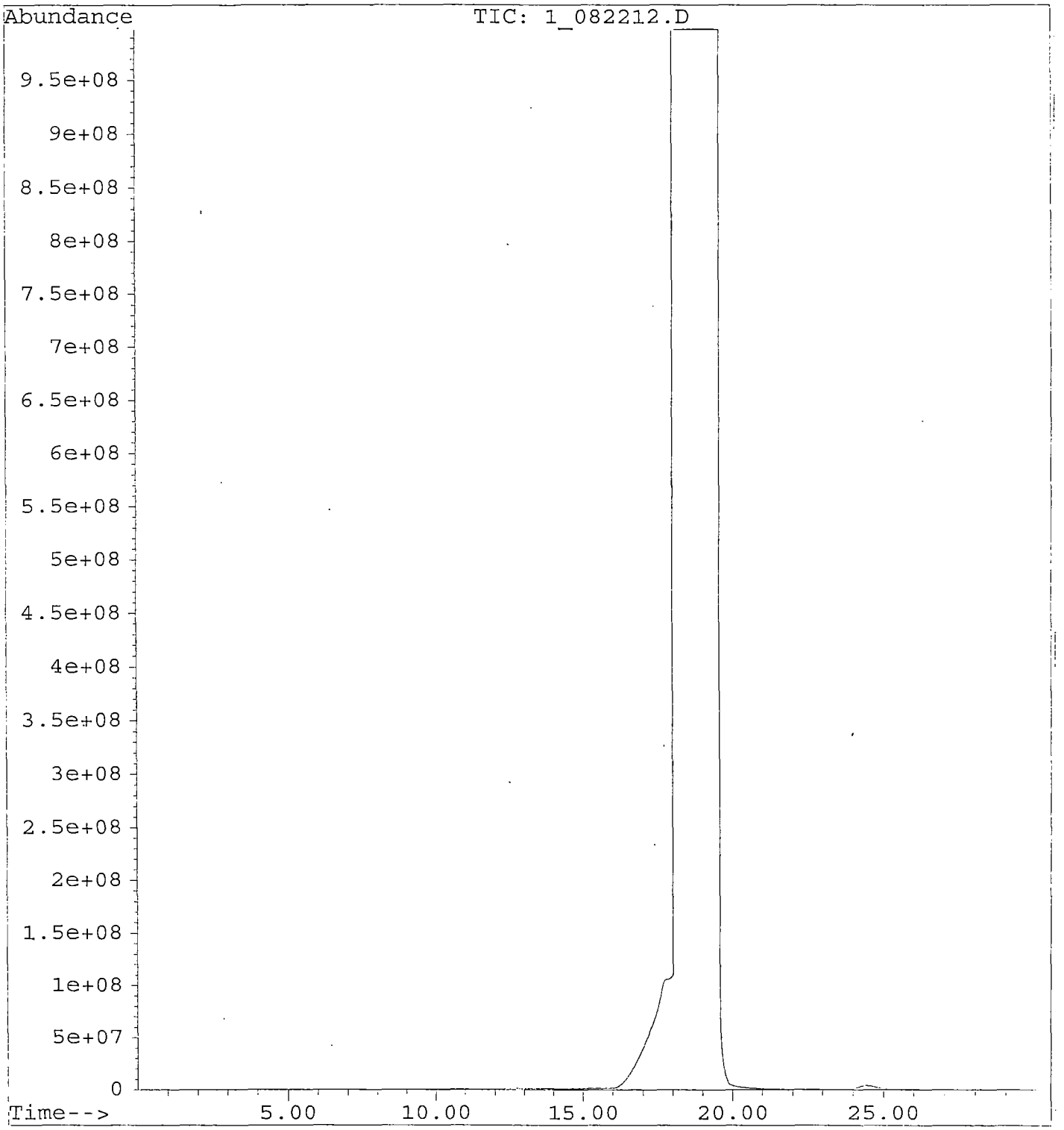
File : C:\HPCHEM\5\DATA\082201\1_082210.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 15:55 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: LC0816SG-EPA
Misc Info : COL# 418002
Vial Number: 10



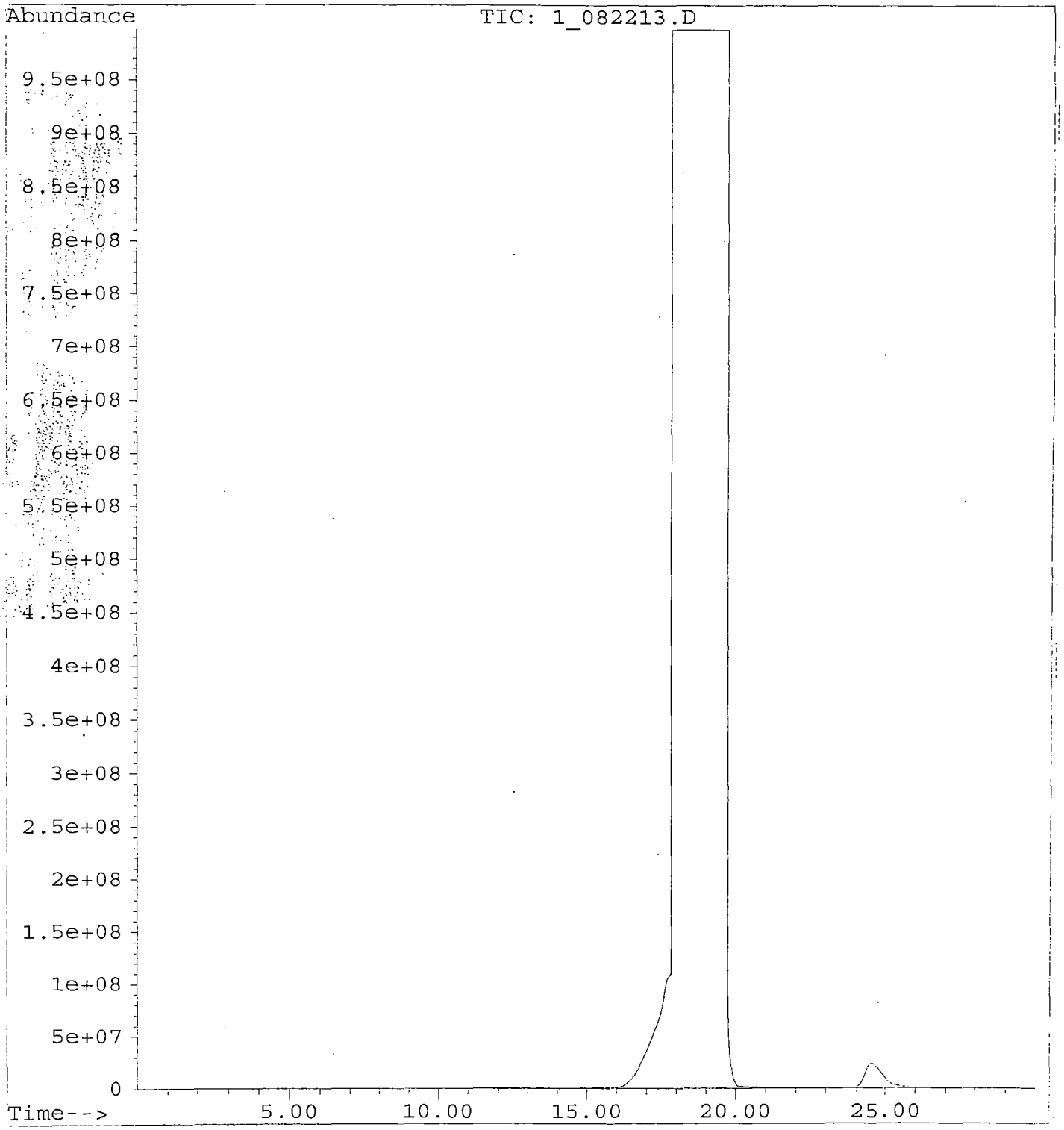
File : C:\HPCHEM\5\DATA\082201\1_082211.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 16:26 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: LD0816SG-EPA
Misc Info : COL# 418002
Vial Number: 11



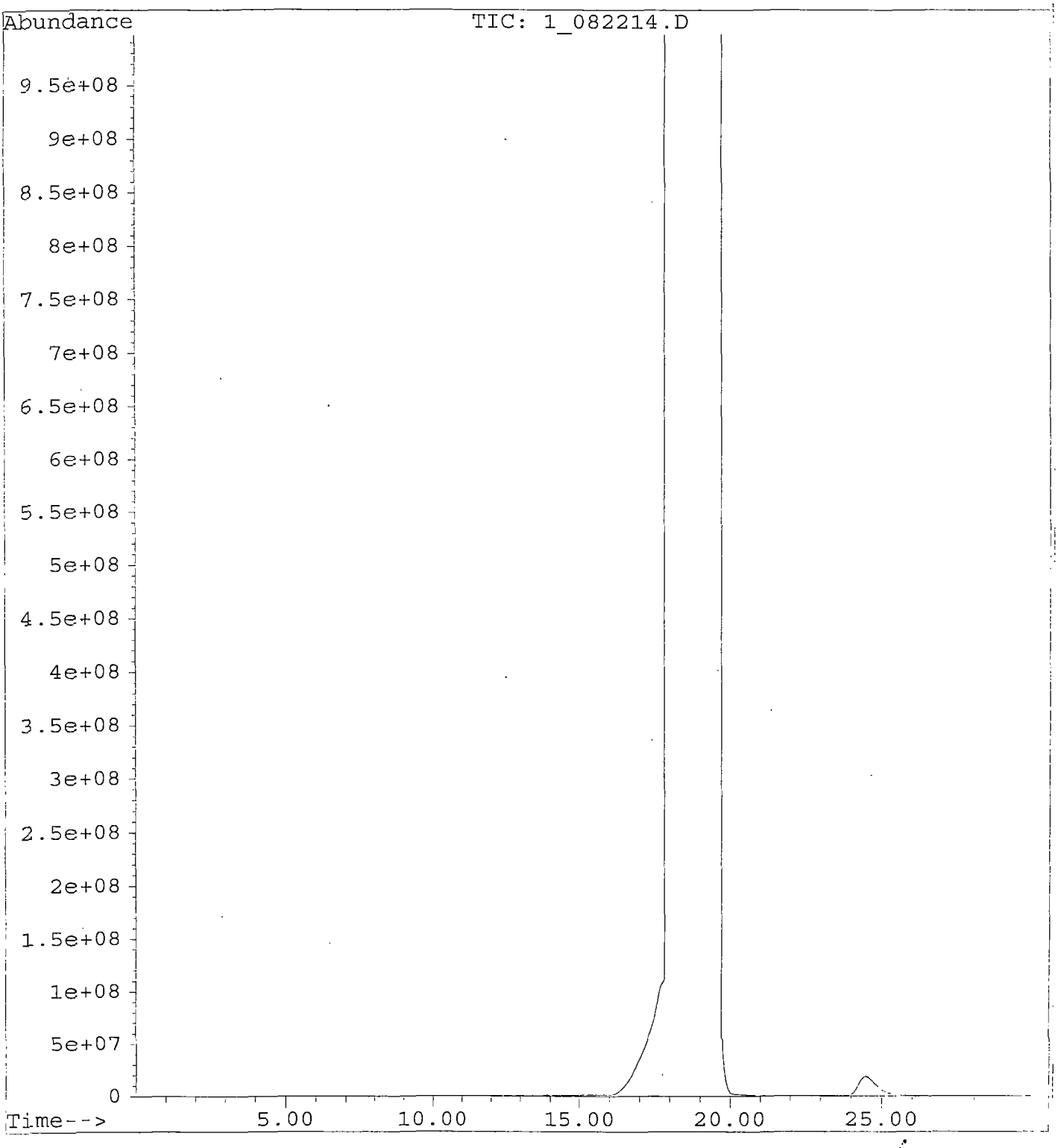
File : C:\HPCHEM\5\DATA\082201\1_082212.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 16:57 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47294.05-E02R9-EPA
Misc Info : COL# 418002
Vial Number: 12



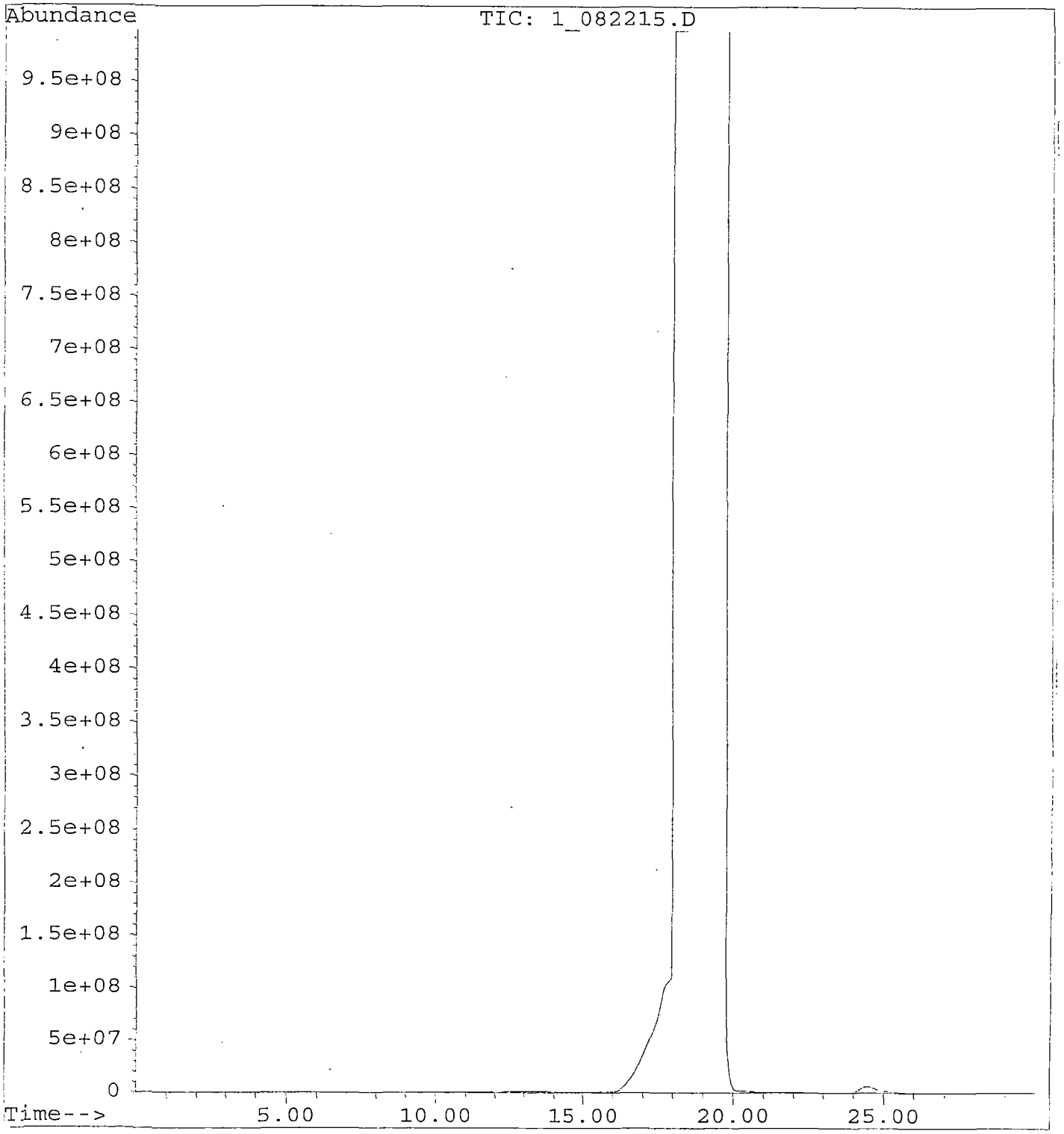
File : C:\HPCHEM\5\DATA\082201\1_082213.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 17:28 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47294.08-E02S2-EPA
Misc Info : COL# 418002
Vial Number: 13



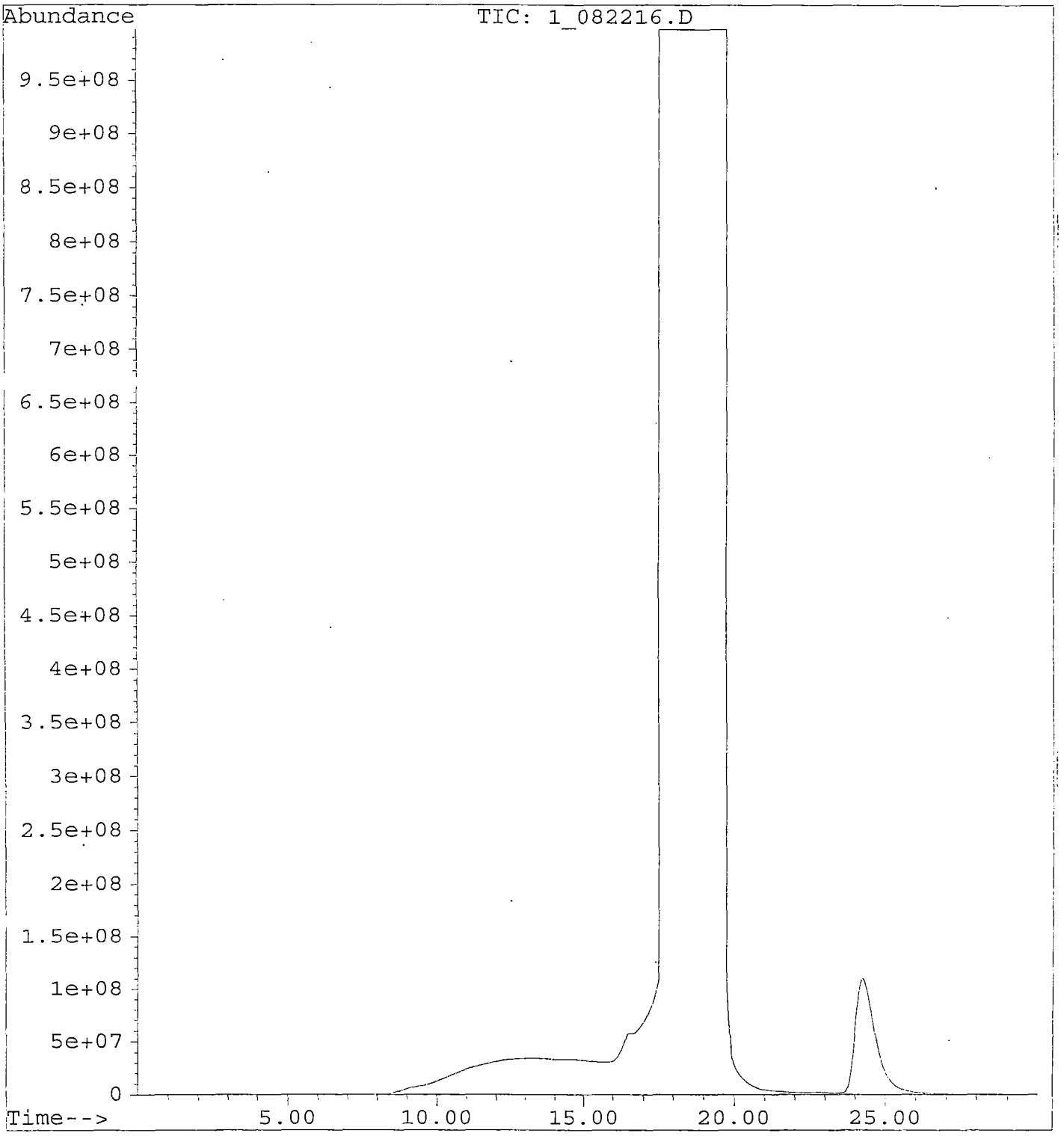
File : C:\HPCHEM\5\DATA\082201\1_082214.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 17:59 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47294.09-E02S3-EPA
Misc Info : COL# 418002
Vial Number: 14



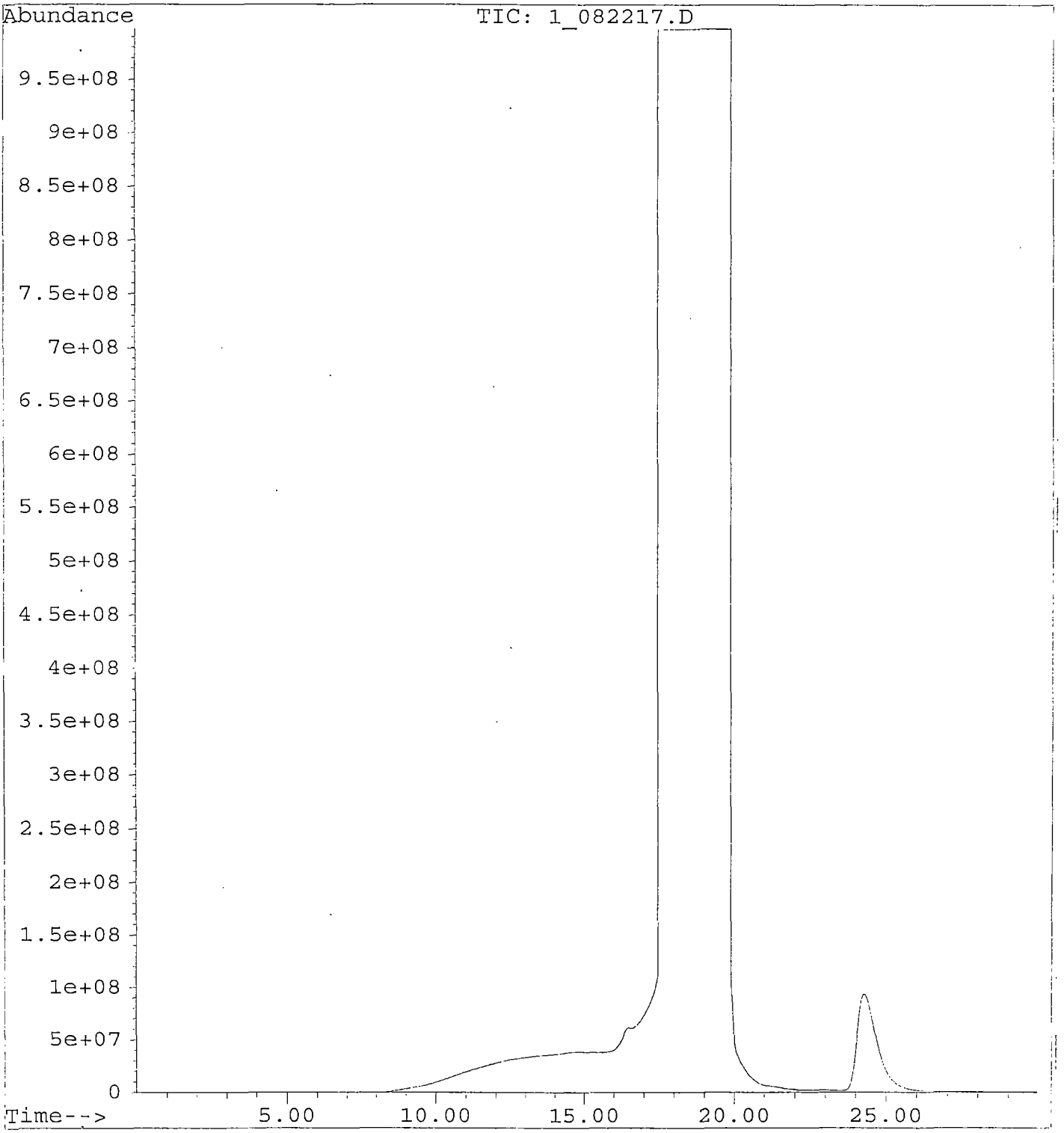
File : C:\HPCHEM\5\DATA\082201\1_082215.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 18:30 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47294.10-E02S4-EPA
Misc Info : COL# 418002
Vial Number: 15



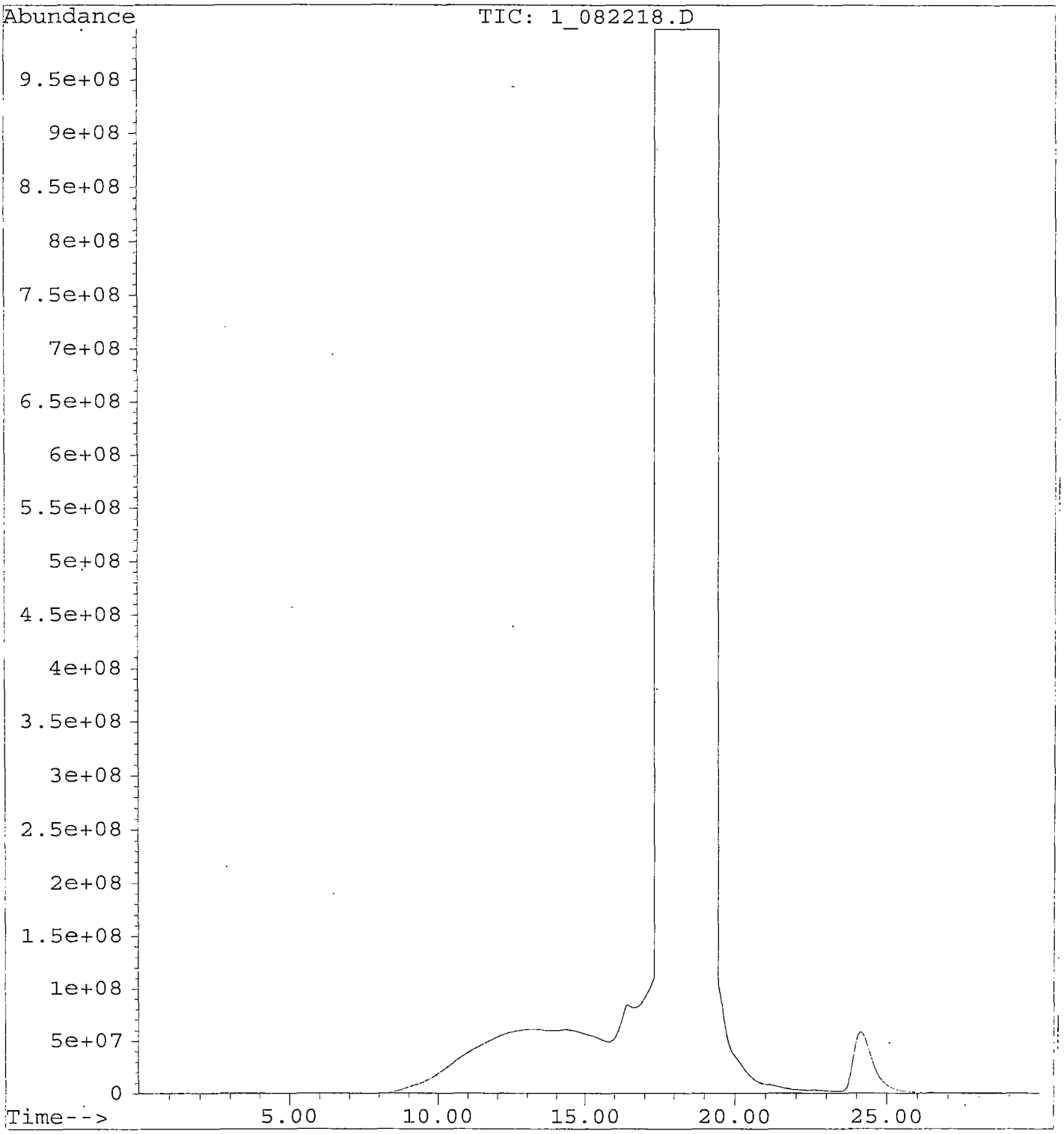
File : C:\HPCHEM\5\DATA\082201\1_082216.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 19:01 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47294.01-E02R5-EPA
Misc Info : COL# 418002
Vial Number: 16



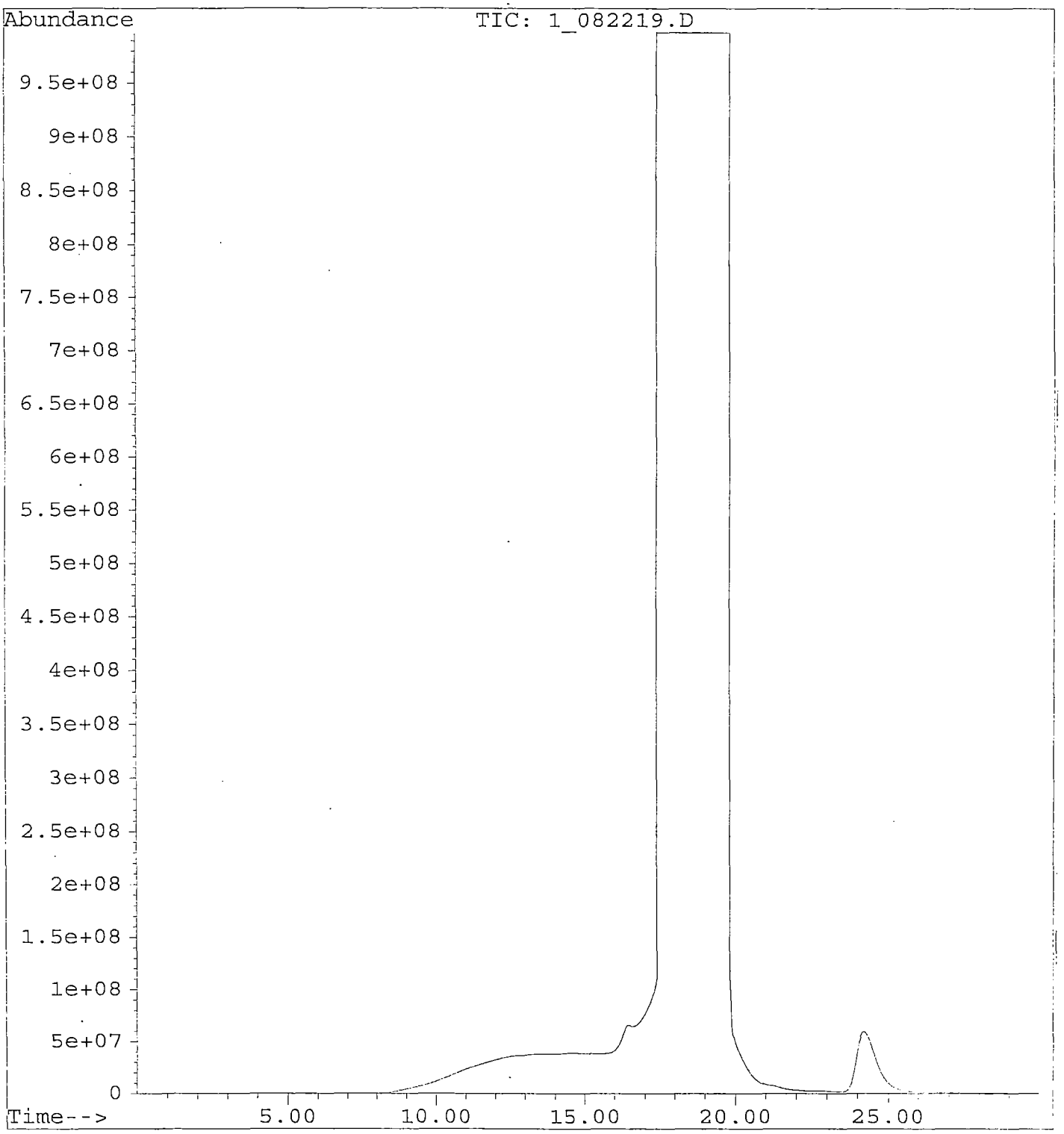
File : C:\HPCHEM\5\DATA\082201\1_082217.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 19:31 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47294.02-E02R6-EPA
Misc Info : COL# 418002
Vial Number: 17



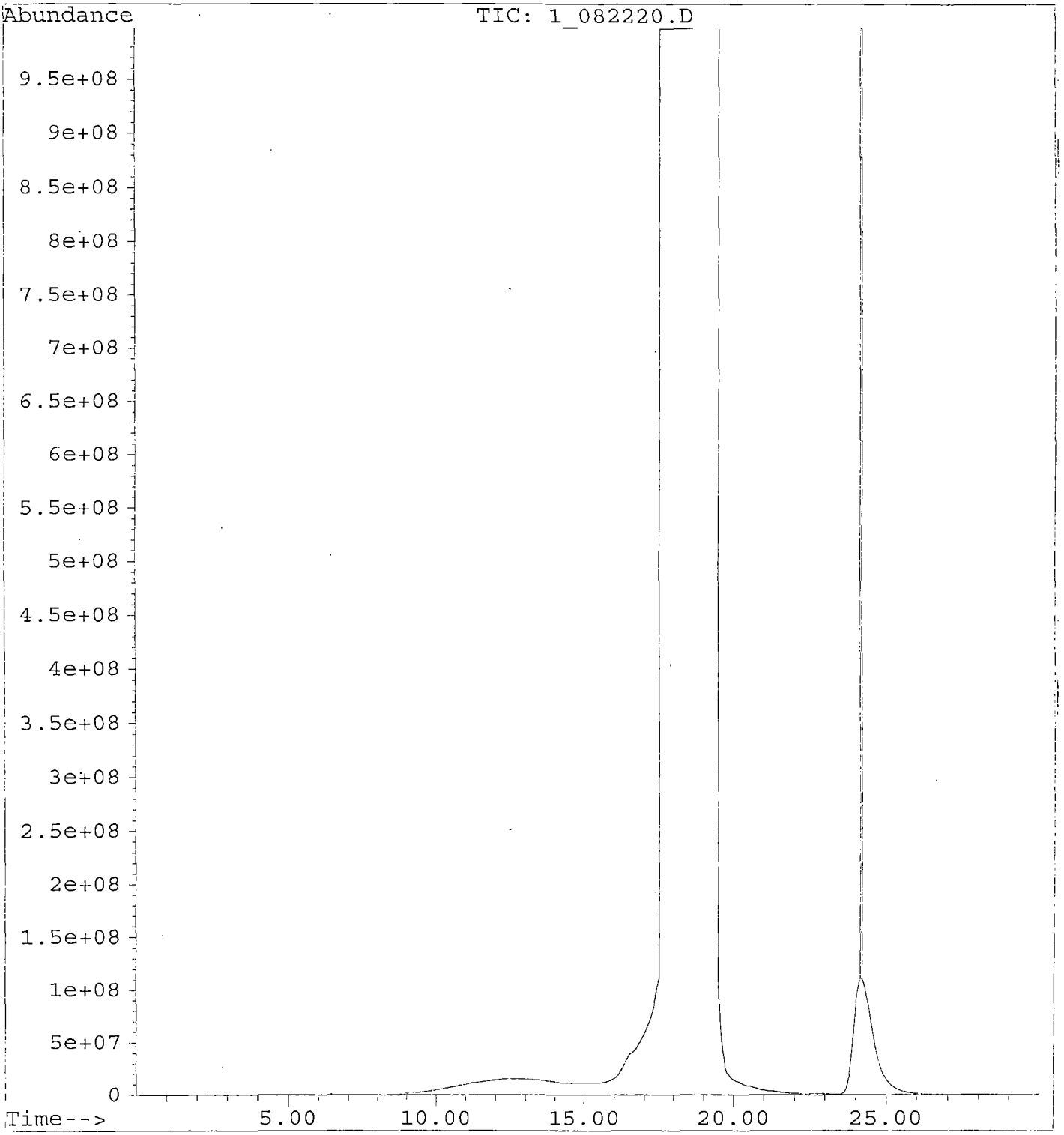
File : C:\HPCHEM\5\DATA\082201\1_082218.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 20:03 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47294.03-E02R7-EPA
Misc Info : COL# 418002
Vial Number: 18



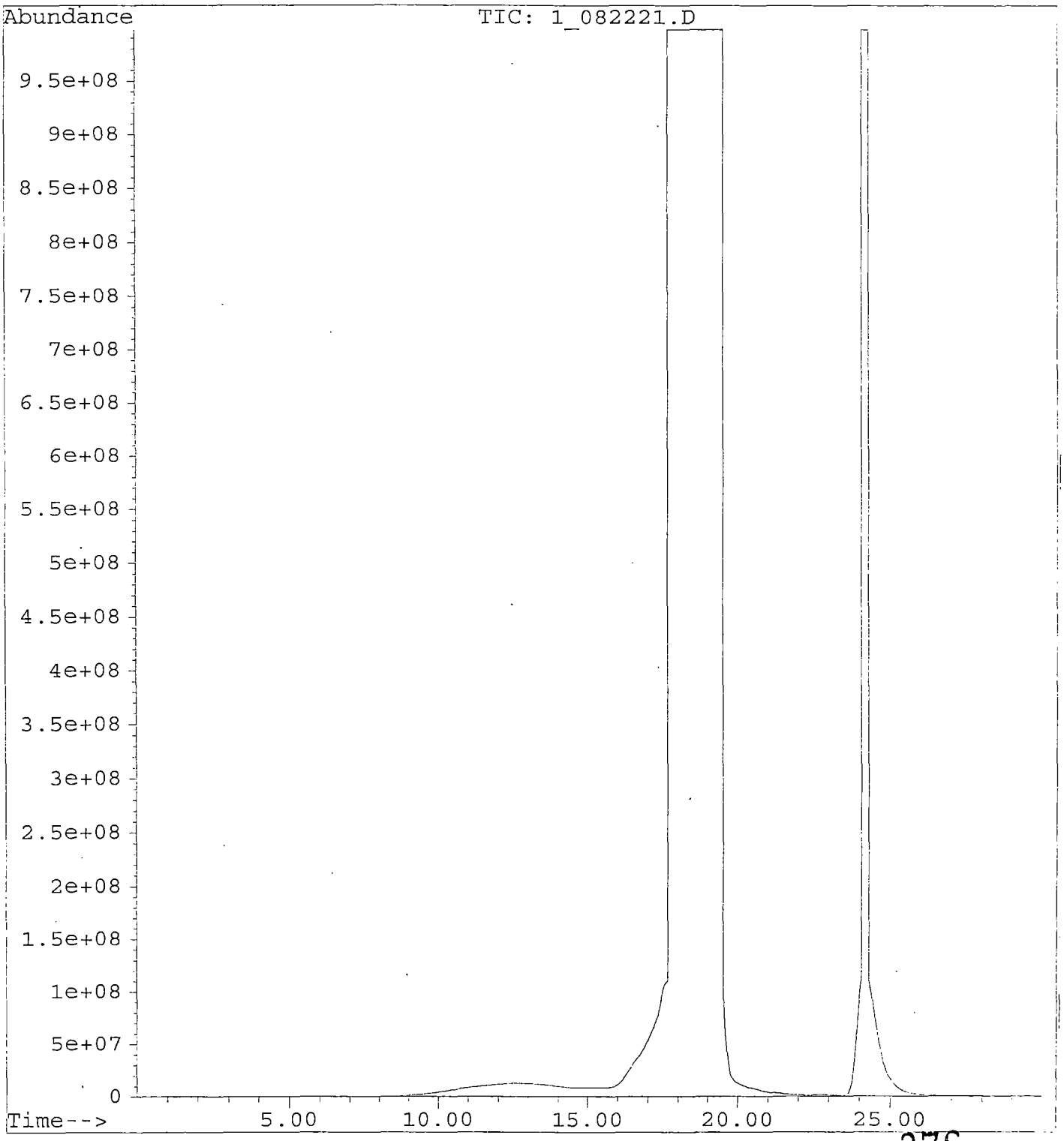
File : C:\HPCHEM\5\DATA\082201\1_082219.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 20:33 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47294.04-E02R8-EPA
Misc Info : COL# 418002
Vial Number: 19



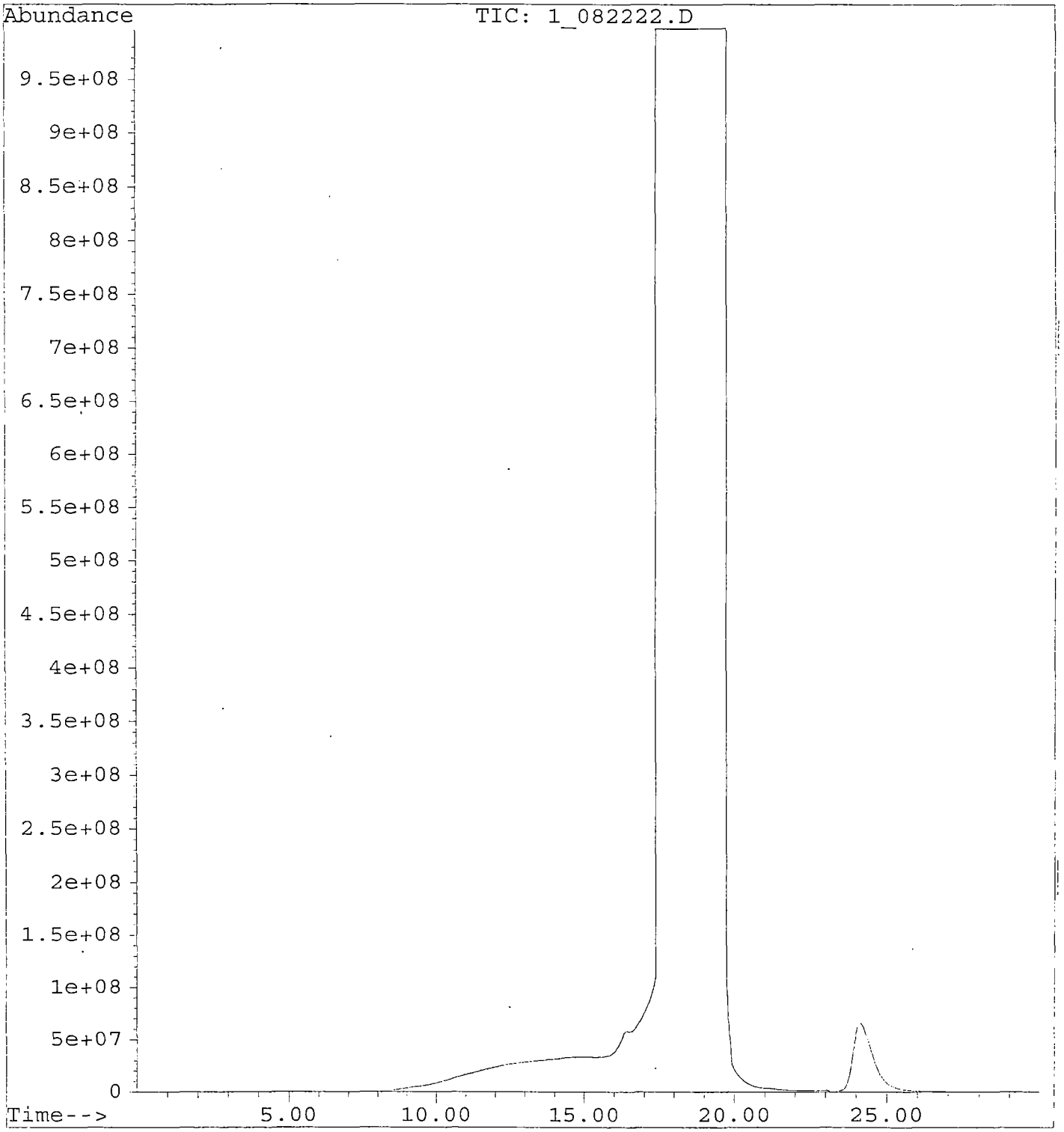
File : C:\HPCHEM\5\DATA\082201\1_082220.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 21:04 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47294.06-E02S0-EPA
Misc Info : COL# 418002
Vial Number: 20



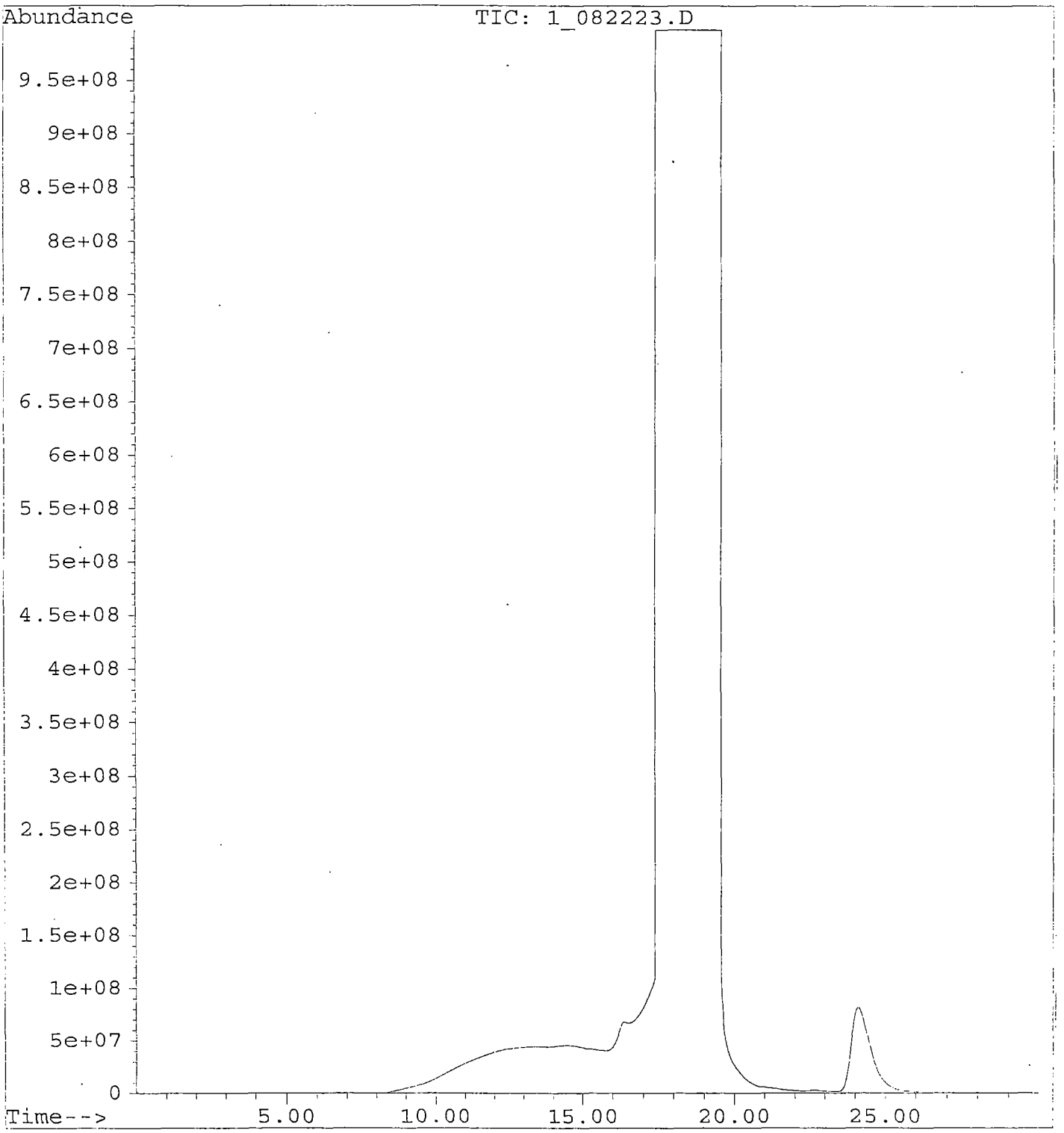
File : C:\HPCHEM\5\DATA\082201\1_082221.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 21:35 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47294.07-E02S1-EPA
Misc Info : COL# 418002
Vial Number: 21



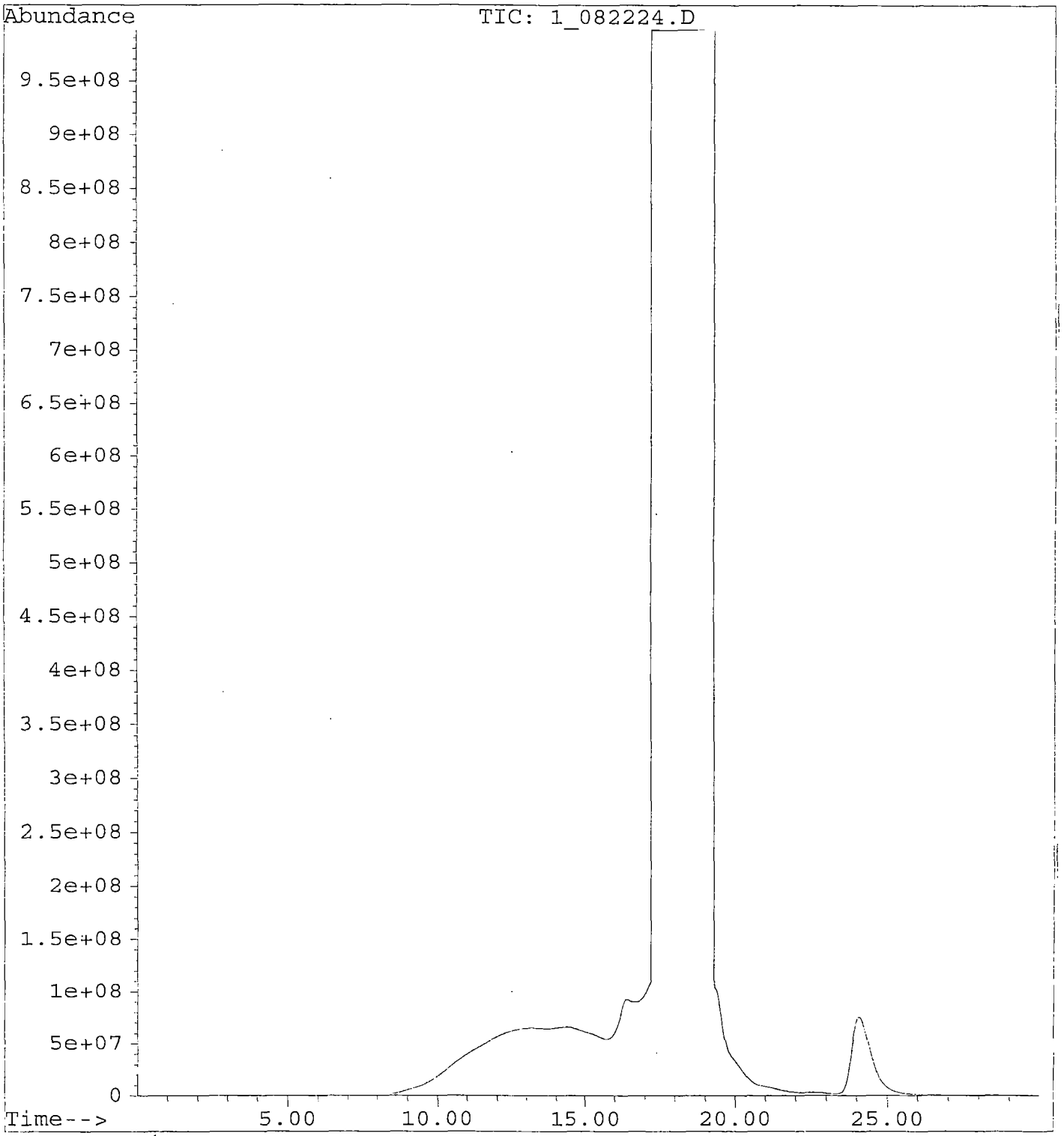
File : C:\HPCHEM\5\DATA\082201\1_082222.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 22:07 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47294.11-E02S5-EPA
Misc Info : COL# 418002
Vial Number: 22



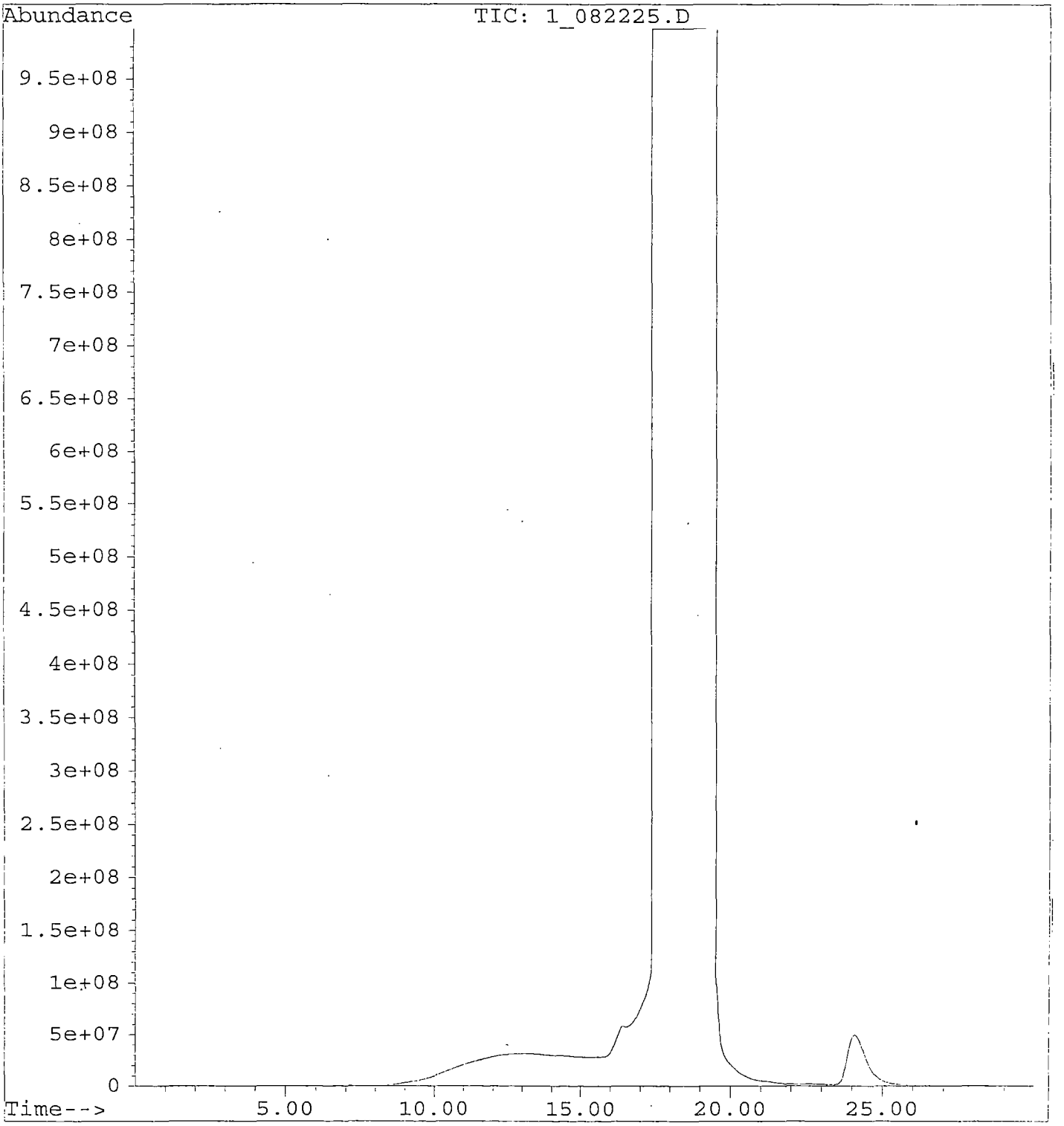
File : C:\HPCHEM\5\DATA\082201\1_082223.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 22:37 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47294.12-E02S6-EPA
Misc Info : COL# 418002
Vial Number: 23



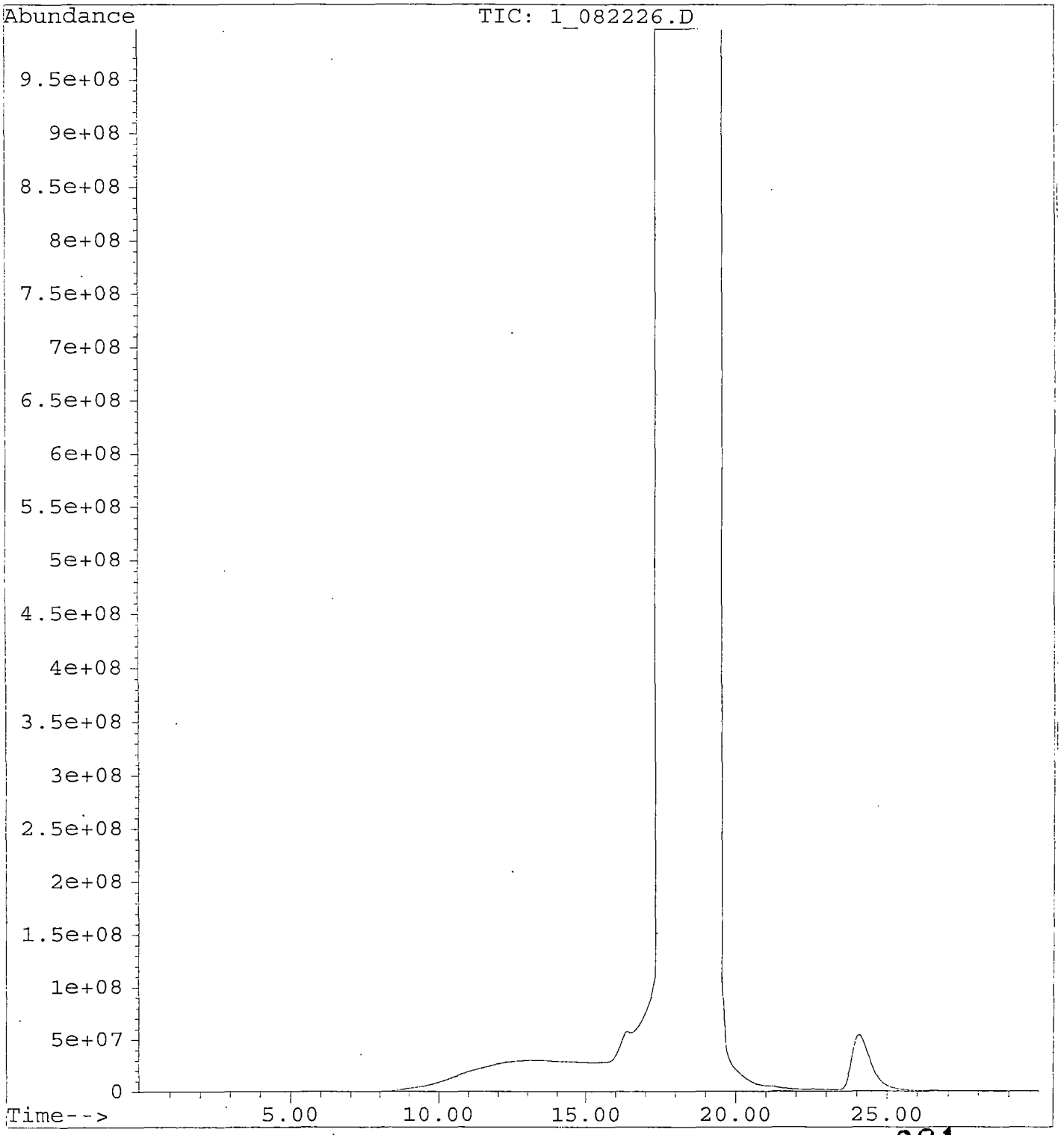
File : C:\HPCHEM\5\DATA\082201\1_082224.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 23:08 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47294.13-E02S7-EPA
Misc Info : COL# 418002
Vial Number: 24



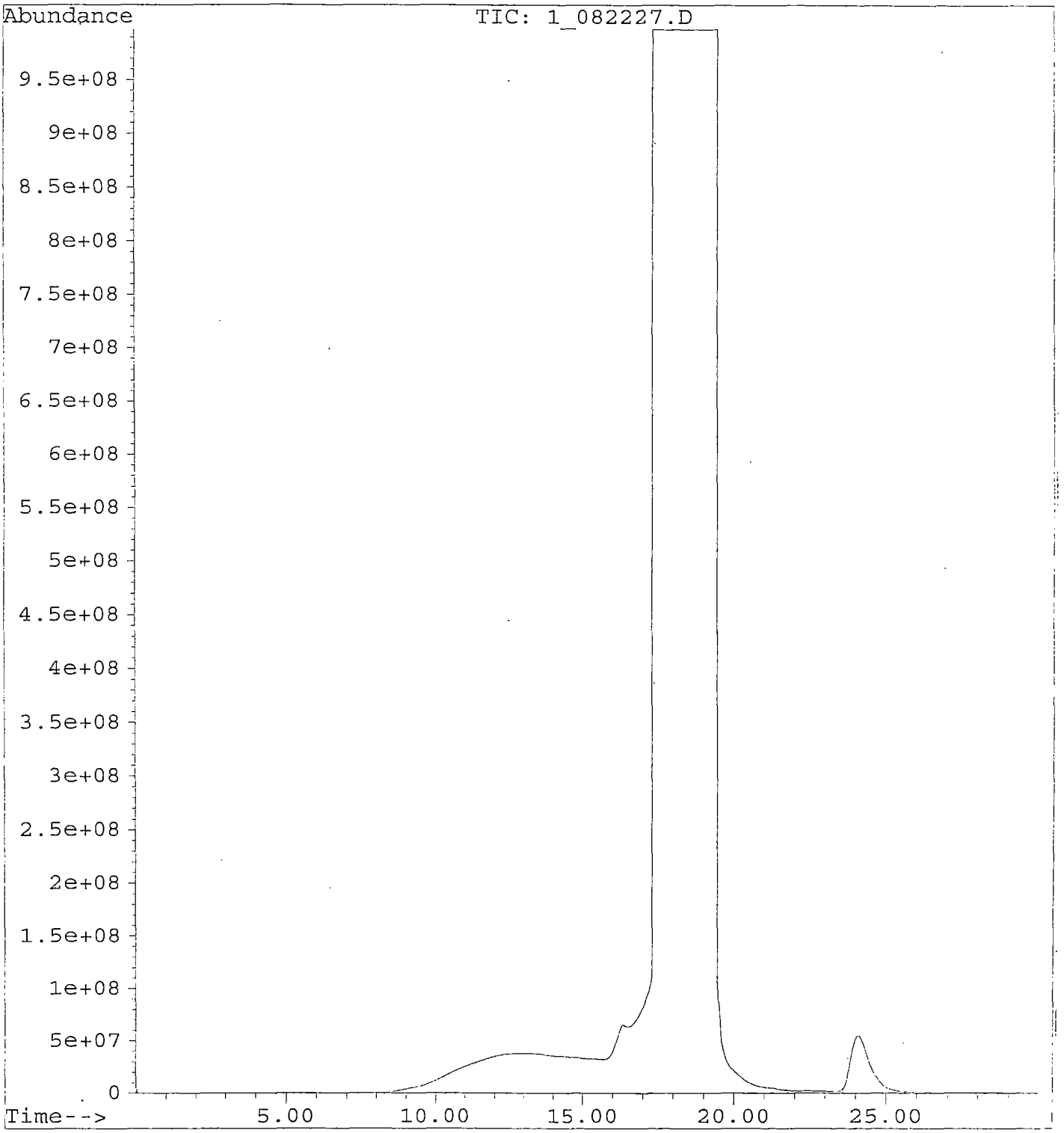
File : C:\HPCHEM\5\DATA\082201\1_082225.D
Operator : CR COL# 418002
Acquired : 22 Aug 01 23:39 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47294.14-E02S8-EPA
Misc Info : COL# 418002
Vial Number: 25



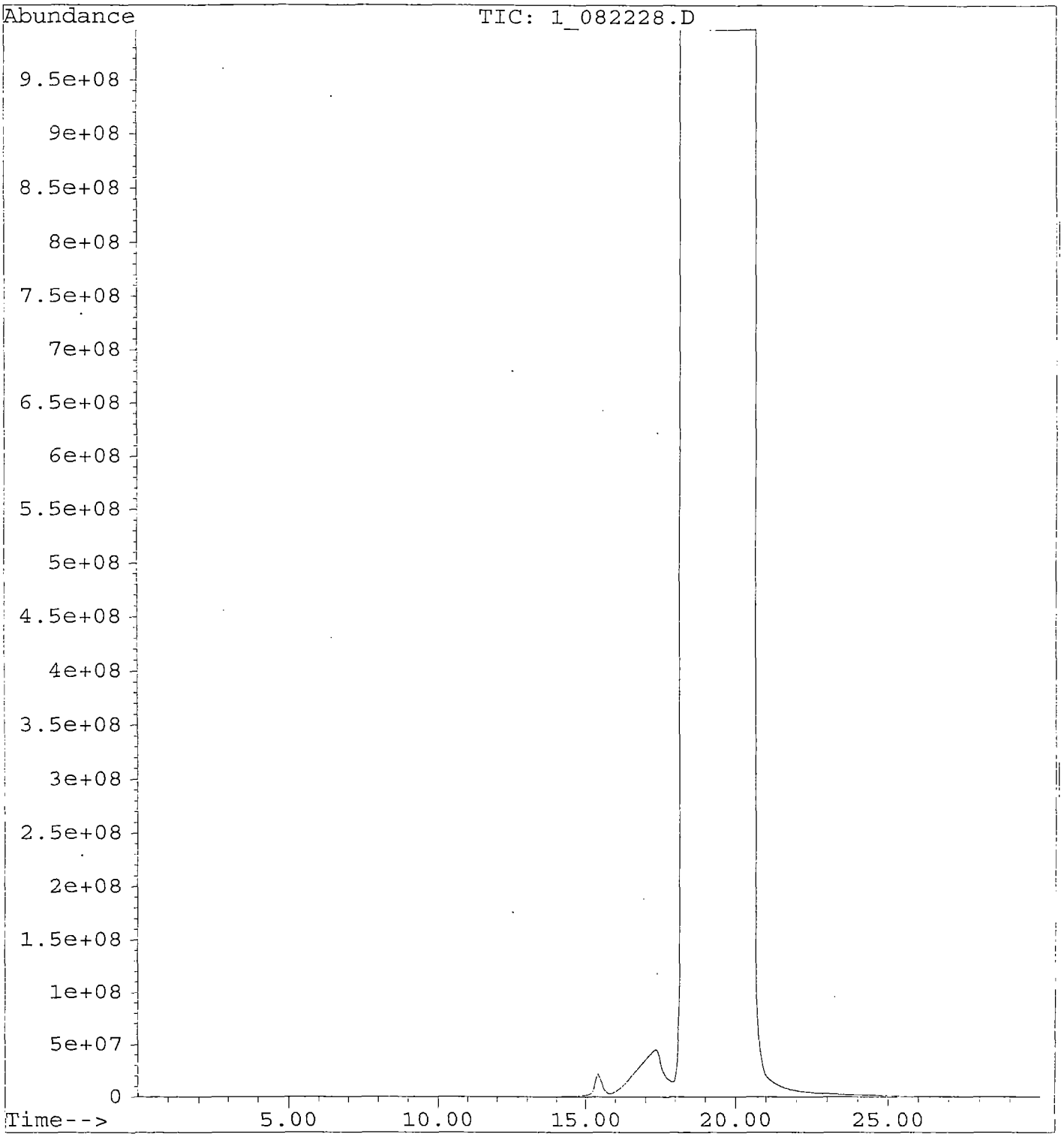
File : C:\HPCHEM\5\DATA\082201\1_082226.D
Operator : CR COL# 418002
Acquired : 23 Aug 01 00:10 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47294.15-E02S8MS-EPA
Misc Info : COL# 418002
Vial Number: 26



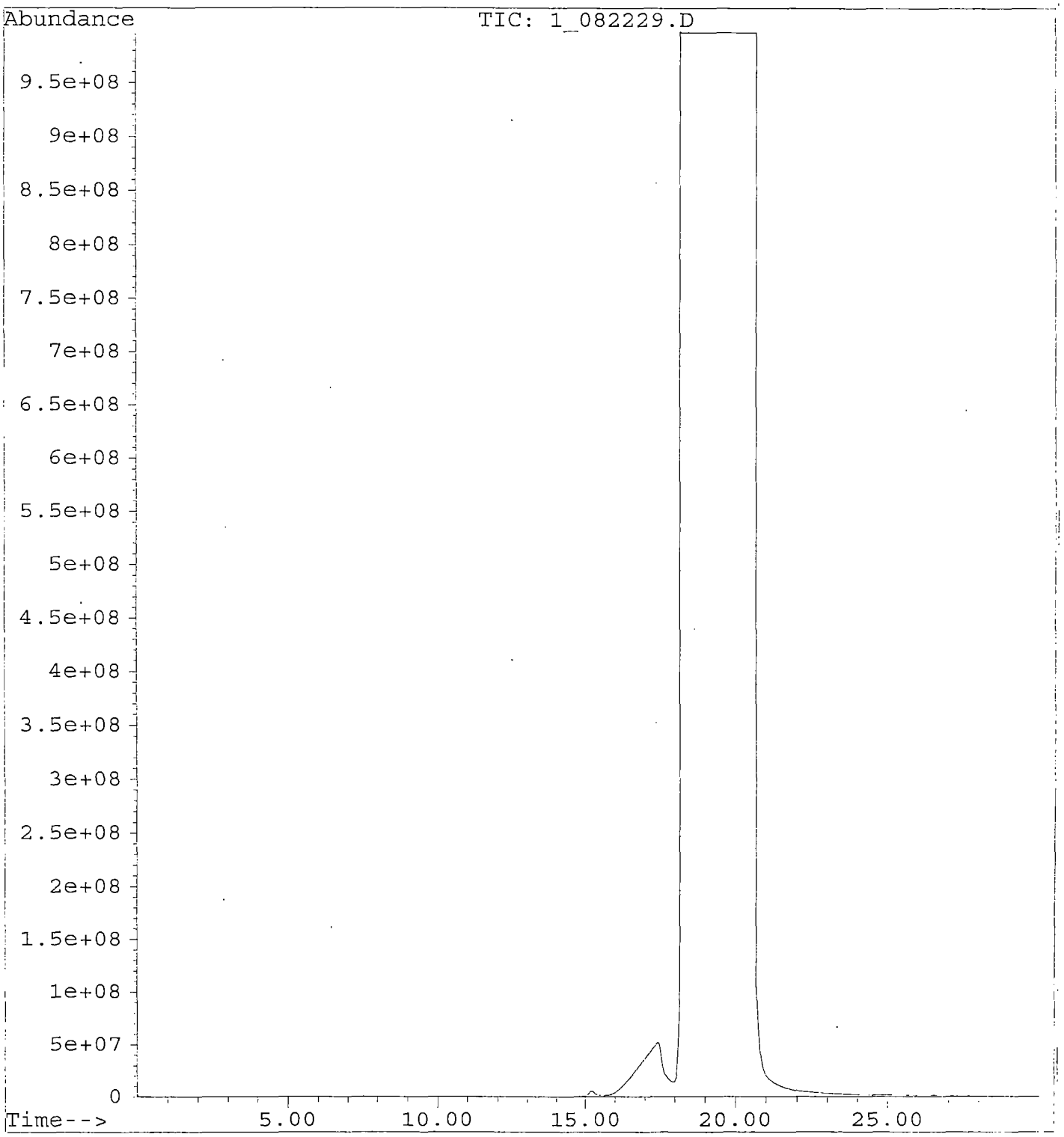
File : C:\HPCHEM\5\DATA\082201\1_082227.D
Operator : CR COL# 418002
Acquired : 23 Aug 01 00:41 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 47294.16-E02S8MSD-EPA
Misc Info : COL# 418002
Vial Number: 27



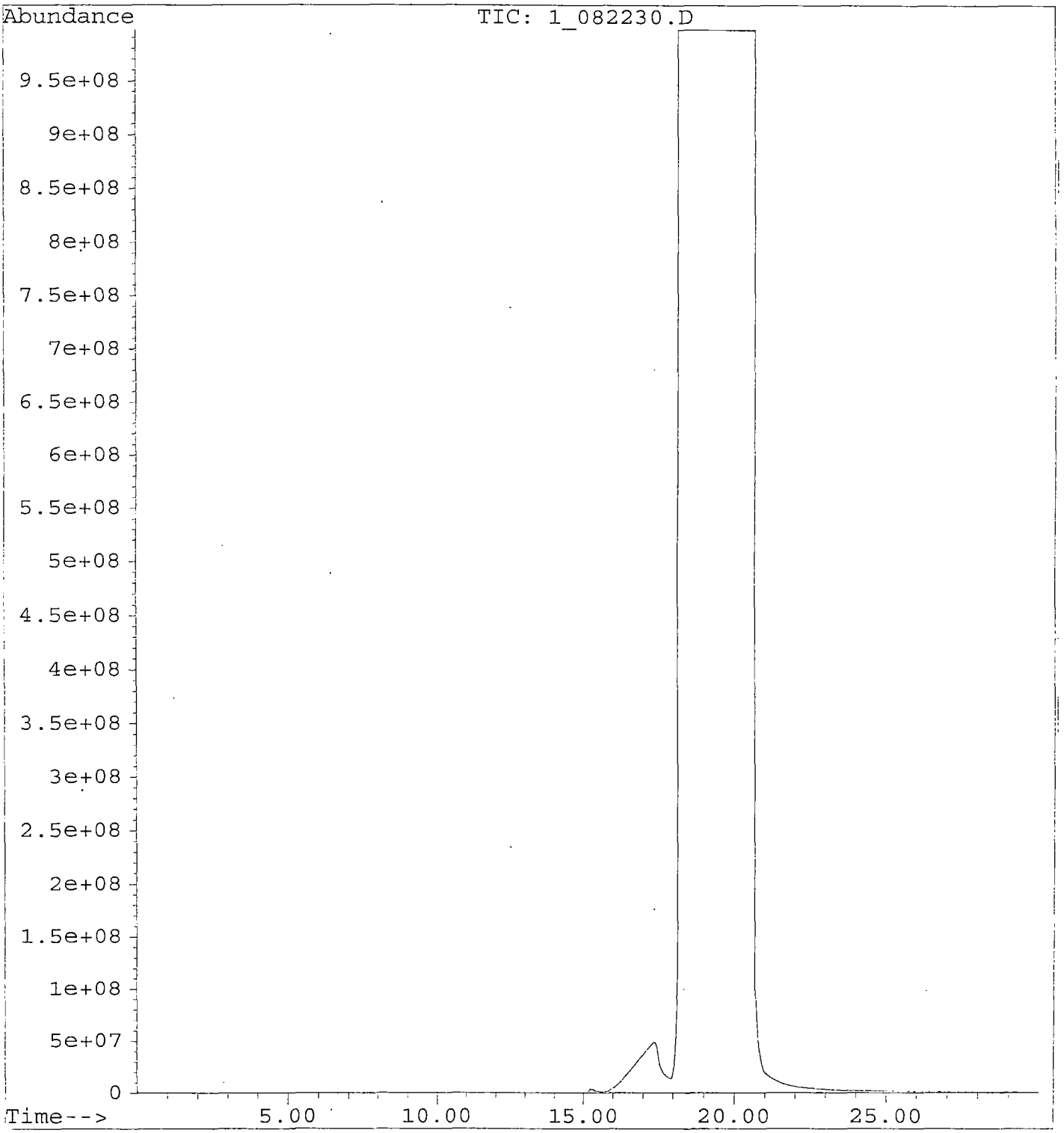
File : C:\HPCHEM\5\DATA\082201\1_082228.D
Operator : CR COL# 418002
Acquired : 23 Aug 01 01:12 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 28



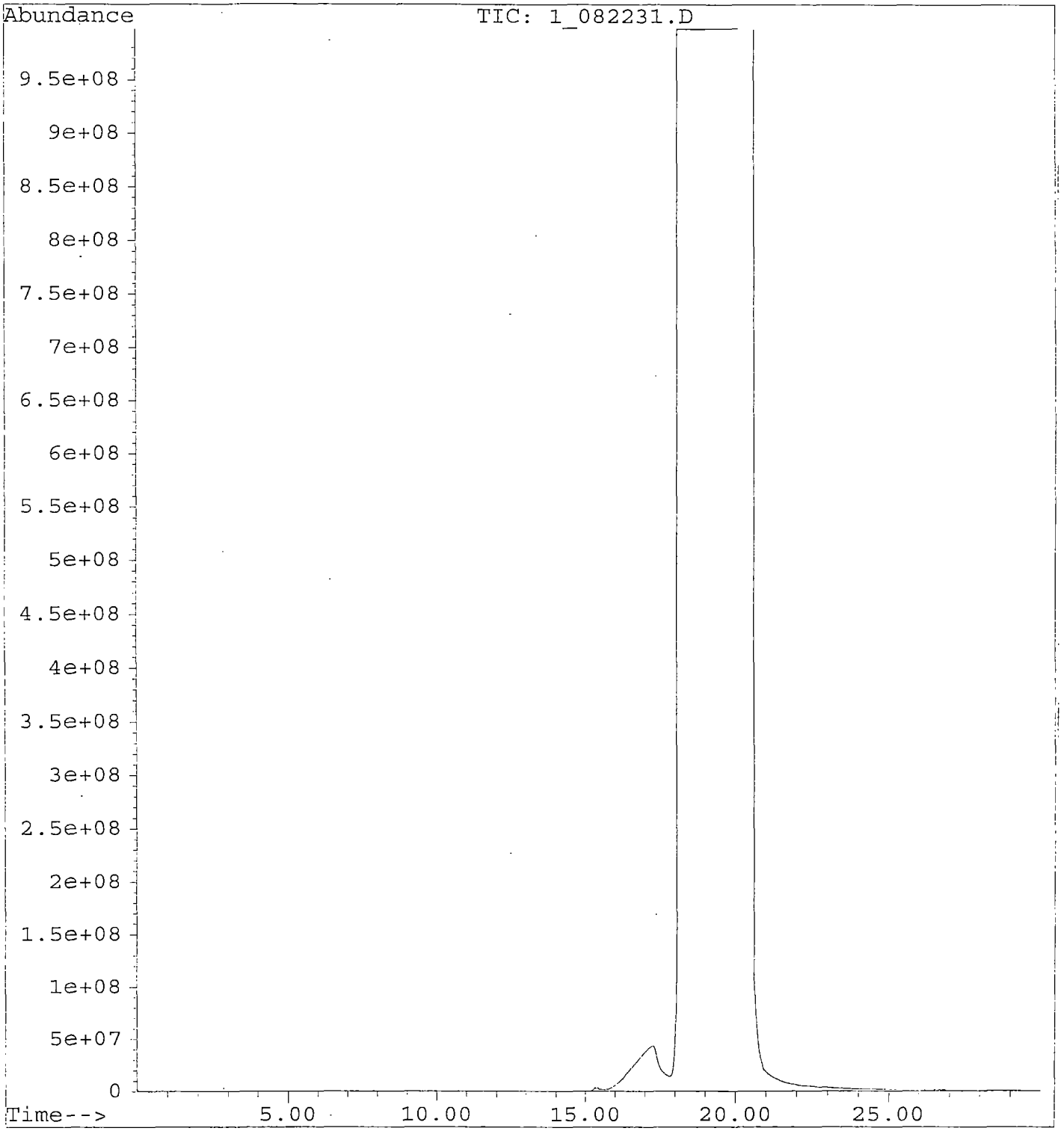
File : C:\HPCHEM\5\DATA\082201\1_082229.D
Operator : CR COL# 418002
Acquired : 23 Aug 01 01:43 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 29



File : C:\HPCHEM\5\DATA\082201\1_082230.D
Operator : CR COL# 418002
Acquired : 23 Aug 01 02:14 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 30

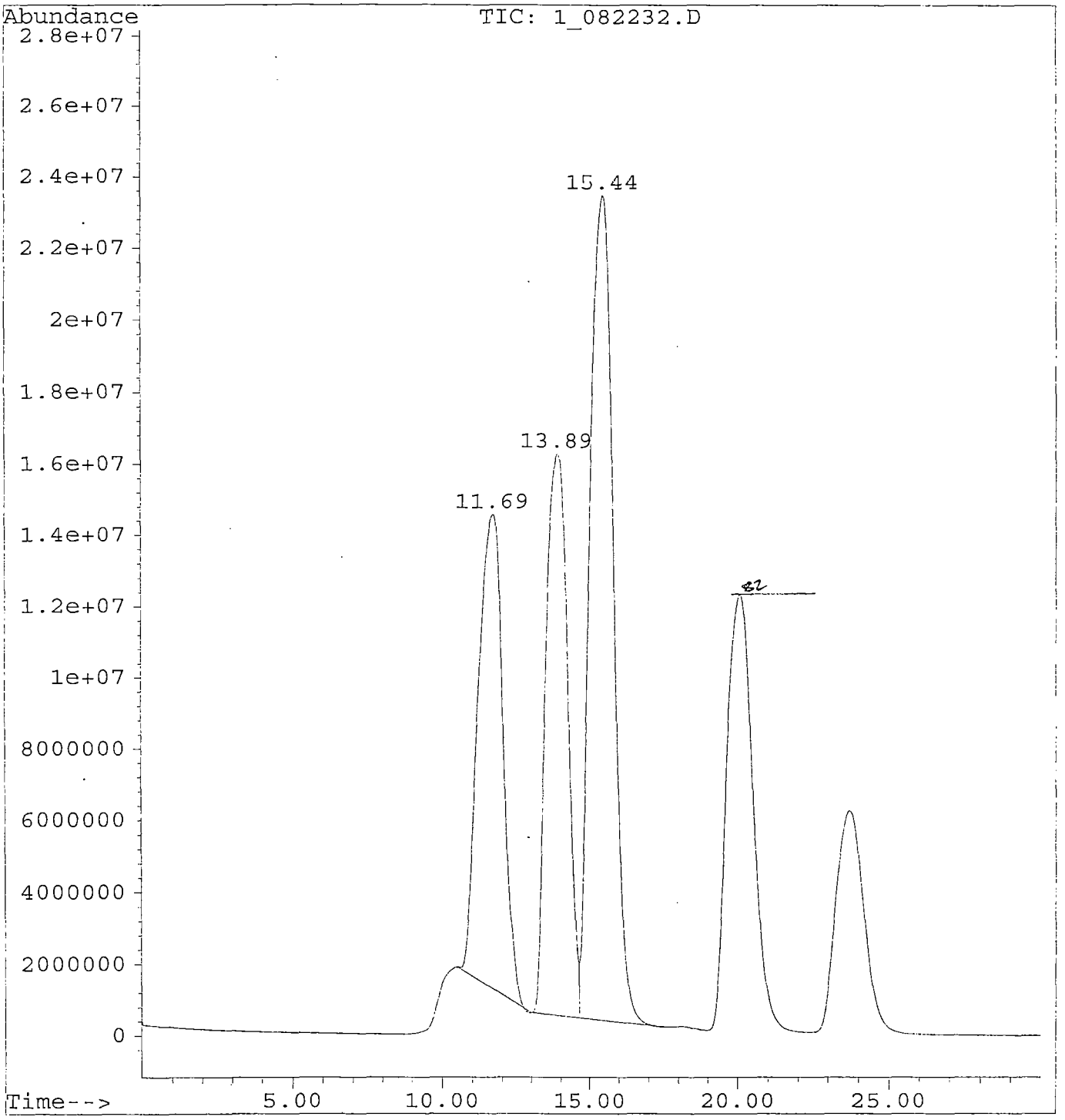


File : C:\HPCHEM\5\DATA\082201\1_082231.D
Operator : CR COL# 418002
Acquired : 23 Aug 01 02:45 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 31



Data File : C:\HPCHEM\5\DATA\082201\1_082232.D
Acq On : 23 Aug 01 03:17 AM
Sample : CAL STD (FINAL)
Misc : COL# 418002

Vial: 32
Operator: CR COL#
Inst : GPC1
Multiplr: 1.00



5) 11.69 = Corn Oil

Chromatographic Resolution Report

Data File : C:\HPCHEM\5\DATA\082201\1_082232.D
Acq On : 23 Aug 01 03:17
Sample : CAL STD (FINAL)
Misc : COL# 418002

Vial: 32
Operator: CR COL# 41
Inst : GPC1
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.692	13.887	100.00
13.887	15.443	90.60

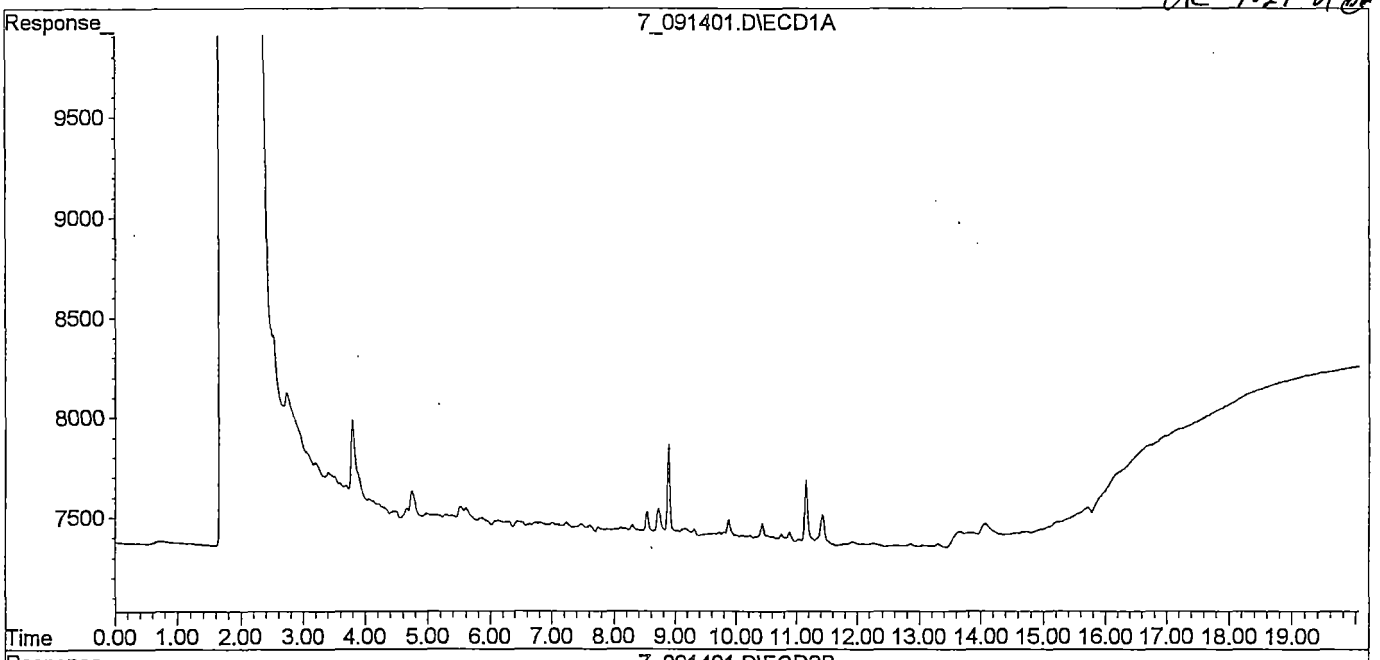
Chromatographic Report

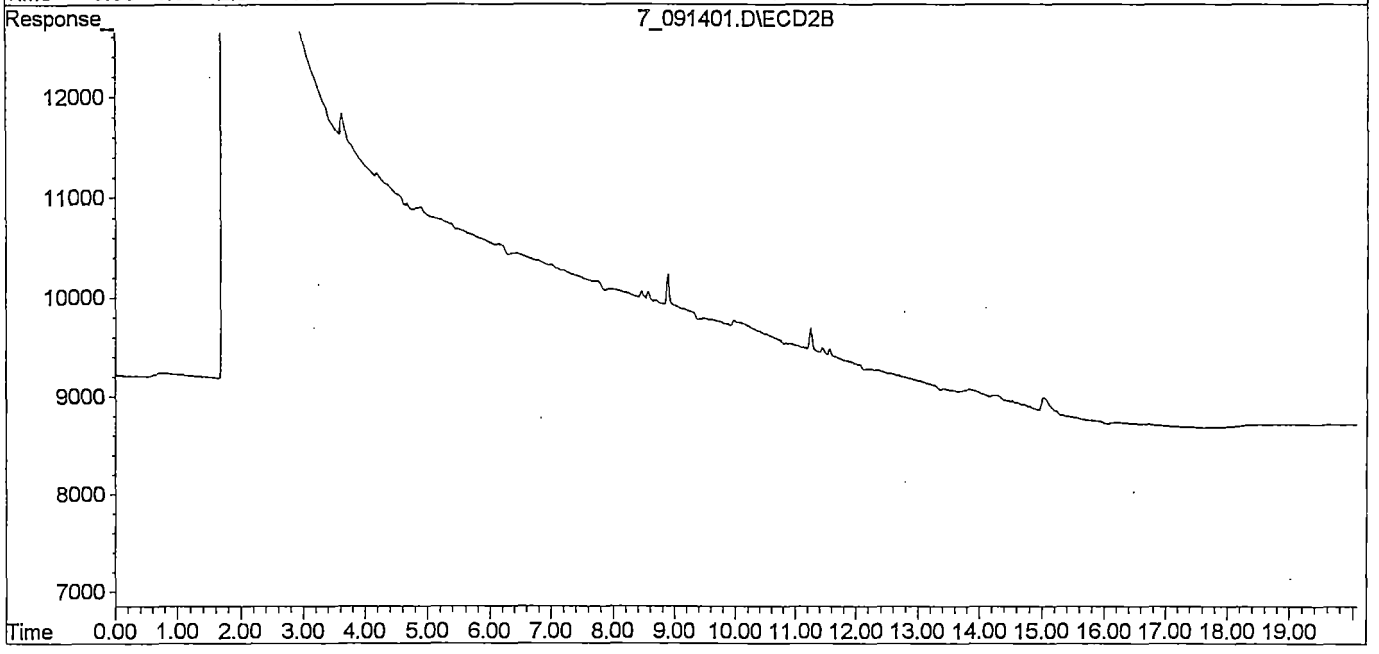
Signal #1 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091401.D\ECD1A.CH Vial: 1
Signal #2 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091401.D\ECD2B.CH
Acq On : 14 Sep 2001 7:23 Operator: SA
Sample : SB082201A *SB082201A * Inst : HP_07
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 9:40 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_14_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

OK 9-21-01





Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091401.D\ECD1A.CH Vial: 1
Signal #2 : F:\HPCHEM\HP\7\DATA\09_14_01\7_091401.D\ECD2B.CH
Acq On : 14 Sep 2001 7:23 Operator: SA
Sample : SB082201A *SB082201A * Inst : HP_07
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 9:40 2001 Quant Results File: XPCBI12.RES

Method : F:\HPCHEM\HP\7\DATA\09_14_01\XPCBI12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\7\DATA\09_12_01\
Last Update : Tue Aug 21 10:09:28 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

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

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-407 OP-407-RUNLOG-7 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_07
SDG NO. : SWLO METHOD FILE(S): XPCB105 [illegible]

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/12/01 8:15	HEX	5-171-7	7_091201	
09/12/01 8:40	HEX	5-171-7	7_091202	
09/12/01 9:04	HEX	5-171-7	7_091203	
09/12/01 9:28	HEX	5-171-7	7_091204	
09/12/01 9:53	HEX	5-171-7	7_091205	
09/12/01 10:17	RESC7G	5-171-7	7_091206	
09/12/01 10:50	PIBLK71	5-131-7	7_091207	
09/12/01 11:14	AR1660L37N	5-210-7	7_091208	CCAL fail
09/12/01 12:05	RESC7H	5-171-7	7_091209	✓
09/12/01 12:29	AR1221L37G	5-420-6	7_091210	✓
09/12/01 12:53	AR1232L37G	5-422-6	7_091211	✓
09/12/01 13:17	AR1242L17G	5-11-7	7_091212	✓
09/12/01 13:41	AR1242L27G	5-10-7	7_091213	✓
09/12/01 14:05	AR1242L37G	5-9-7	7_091214	✓
09/12/01 14:29	AR1242L47G	5-8-7	7_091215	✓
09/12/01 15:00	AR1242L57G	5-7-7	7_091216	✓
09/12/01 15:24	AR1248L37G	5-424-6	7_091217	✓
09/12/01 15:48	AR1254L17G	5-6-7	7_091218	✓
09/12/01 16:13	AR1254L27G	5-5-7	7_091219	✓
09/12/01 16:37	AR1254L37G	5-4-7	7_091220	✓
09/12/01 17:02	AR1254L47G	5-3-7	7_091221	✓

Unless noted, Client Ids are the same for the quant. & confirmation columns

[illegible] 9-13-01
Verification Signature/Date

[illegible] 9-13-01
Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-407 OP-407-RUNLOG-7 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_07
SDG NO. : SWLO METHOD FILE(S): XPCB~~105~~ I/J 09/03/01

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/12/01 17:26	AR1254L57G	5-2-7	7_091222	✓
09/12/01 17:50	AR1660L17G	5-212-7	7_091223	✓
09/12/01 18:14	AR1660L27G	5-211-7	7_091224	✓
09/12/01 18:38	AR1660L37O	5-210-7	7_091225	✓
09/12/01 19:02	AR1660L47G	5-209-7	7_091226	✓
09/12/01 19:26	AR1660L57G	5-208-7	7_091227	✓
09/12/01 19:50	HEX	HEX	7_091228	N.U.
09/12/01 20:14	HEX	HEX	7_091229	
09/12/01 20:39	PIBLK71	5-131-7	7_091230	
09/12/01 21:03	SB082101C		7_091231	
09/12/01 21:27	SB082101D		7_091232	
09/12/01 21:51	BL0816SE		7_091233	
09/12/01 22:15	BB0816SE		7_091234	
09/12/01 22:39	LC0816SE		7_091235	
09/12/01 23:03	LD0816SE		7_091236	
09/12/01 23:27	PIBLK72	5-131-7	7_091237	
09/12/01 23:51	AR1660L37P	5-128-7	7_091238	CCAL Fail
09/13/01 00:14	AR1660L37Q	5-128-7	7_091239	
09/13/01 00:38	47282.01		7_091240	
09/13/01 1:02	47282.02		7_091241	
09/13/01 1:26	47282.03		7_091242	N.U.

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9-13-01
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GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-407 OP-407-RUNLOG-7 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_07
SDG NO. : SWLO METHOD FILE(S): XPCBI12

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/14/01 2:32	E02P3	47292.18	7_091343	ok
09/14/01 2:56	E02P4	47292.19	7_091344	ok
09/14/01 3:20	HEX		7_091345	
09/14/01 3:44	HEX		7_091346	
09/14/01 4:08	PIBLK79	5-131-7	7_091347	✓
09/14/01 4:32	AR1660L375	5-128-7	7_091348	✓
09/14/01 4:55	AR1660L376	5-128-7	7_091349	
09/14/01 5:19	AR1660L377	5-128-7	7_091350	N.U.
09/14/01 5:43	AR1660L378	5-128-7	7_091351	N.U.

Unless noted, Client Ids are the same for the quant. & confirmation columns

9-14-01
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Analyst Signature/Date

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GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-407 OP-407-RUNLOG-7 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_07
SDG NO. : SWLO METHOD FILE(S): XPCBI12

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/14/01 7:23	SB082201A		7_091401	✓
09/14/01 7:47	SB082201B		7_091402	✓
09/14/01 8:11	~~BL0816SG~~ PBLKSG	BL0816SG	7_091403	✓
09/14/01 8:36	BB0816SG	09/23/01	7_091404	✓
09/14/01 9:00	~~LC0816SG~~ ELCS1	LC0816SG	7_091405	✓
09/14/01 9:25	~~LD0816SG~~ ELCS2	LD0816SG	7_091406	✓
09/14/01 9:49	HEX		7_091407	
09/14/01 10:13	HEX		7_091408	
09/14/01 10:38	PIBLK7A	5-131-7	7_091409	✓
09/14/01 11:02	AR1660L379	5-128-7	7_091410	✓
09/14/01 11:26	AR1660L37A	5-128-7	7_091411	
09/14/01 11:50	47294.01		7_091412	N.U.
09/14/01 12:14	47294.02		7_091413	
09/14/01 12:38	47294.03		7_091414	
09/14/01 13:02	47294.04		7_091415	
09/14/01 13:26	47294.05		7_091416	
09/14/01 13:50	47294.06		7_091417	
09/14/01 14:14	47294.07		7_091418	
09/14/01 14:39	47294.08		7_091419	
09/14/01 15:03	HEX		7_091420	
09/14/01 15:32	HEX		7_091421	N.U.

Unless noted, Client Ids are the same for the quant. & confirmation columns

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9-17-01
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GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-407 OP-407-RUNLOG-8 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_07
SDG NO. : SWLO METHOD FILE(S): XPCBI18

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/18/01 17:42	RESC7I	5-171-7	7_091826	✓
09/18/01 18:07	AR1660L17H	5-212-7	7_091827	✓
09/18/01 18:31	AR1660L27H	5-211-7	7_091828	✓
09/18/01 18:55	AR1660L37L	5-210-7	7_091829	✓
09/18/01 19:19	AR1660L47H	5-209-7	7_091830	✓
09/18/01 19:43	AR1660L57H	5-208-7	7_091831	✓
09/18/01 20:07	AR1221L37H	5-420-6	7_091832	✓
09/18/01 20:32	AR1232L37H	5-422-6	7_091833	✓
09/18/01 20:56	AR1242L17H	5-11-7	7_091834	✓
09/18/01 21:20	AR1242L27H	5-10-7	7_091835	✓
09/18/01 21:44	AR1242L37H	5-9-7	7_091836	✓
09/18/01 22:08	AR1242L47H	5-8-7	7_091837	✓
09/18/01 22:32	AR1242L57H	5-7-7	7_091838	✓
09/18/01 22:56	AR1248L37H	5-424-6	7_091839	✓
09/18/01 23:20	AR1254L17H	5-6-7	7_091840	✓
09/18/01 23:44	AR1254L27H	5-5-7	7_091841	✓
09/19/01 00:08	AR1254L37H	5-4-7	7_091842	✓
09/19/01 00:32	AR1254L47H	5-3-7	7_091843	✓
09/19/01 00:55	AR1254L57H	5-2-7	7_091844	✓
09/19/01 1:19	PIBLK7G	5-131-7	7_091845	✓
09/19/01 1:43	AR1660L37M	5-210-7	7_091846	N.J.

Unless noted, Client Ids are the same for the quant. & confirmation columns

9-19-01 9.19.01

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GC Laboratory Run Log - PESTICIDE/PCB

SWOR/AATS SWLO-OP-407 OP-407-RUNLOG-8 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_07
SDG NO. : SWLO METHOD FILE(S): XPCBI18

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/19/01 2:07	E02N2	47292.05	7_091847	N.U.
09/19/01 2:31	E02N1DL	47292.04DL	7_091848	N.U.
09/19/01 2:55	E02R5	47294.01	7_091849	10x
09/19/01 3:19	E02R6	47294.02	7_091850	OK
09/19/01 3:43	E02R7	47294.03	7_091851	OK
09/19/01 4:07	E02R8	47294.04	7_091852	OK
09/19/01 4:31	E02R9	47294.05	7_091853	OK
09/19/01 4:55	E02S0	47294.06	7_091854	OK
09/19/01 5:19	E02S1	47294.07	7_091855	OK
09/19/01 5:43	E02S2	47294.08	7_091856	OK
09/19/01 6:07	HEX		7_091857	
09/19/01 6:31	HEX		7_091858	
09/19/01 6:55	PIBLK7H	5-131-7	7_091859	✓
09/19/01 7:19	AR1660L37N	5-128-7	7_091860	✓
09/19/01 7:43	AR1660L37O	5-128-7	7_091861	N.U.
09/19/01 8:17	E02S3	47294.09	7_091862	OK
09/19/01 8:41	E02S4	47294.10	7_091863	OK
09/19/01 9:05	E02S5	47294.11	7_091864	10x
09/19/01 9:30	E02S6	47294.12	7_091865	OK
09/19/01 9:54	E02S7	47294.13	7_091866	OK
09/19/01 10:18	E02S8	47294.14	7_091867	OK

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9-19-01
Verification Signature/Date

Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-407 OP-407-RUNLOG-8 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_07
SDG NO. : SWLO METHOD FILE(S): XPCBI18

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/19/01 10:43	E02S8MS	47294.15MS	7_091868	OK
09/19/01 11:07	E02S8MSD	47294.16MSD	7_091869	OK
09/19/01 11:32	E02N2	47292.05	7_091870	NU.
09/19/01 11:56	E02N1DL	47292.04DL	7_091871	OK
09/19/01 13:16	HEX		7_091872	
09/19/01 13:40	HEX		7_091873	
09/19/01 14:04	PIBLK7I	5-131-7	7_091874	✓
09/19/01 14:29	AR1660L37P	5-128-7	7_091875	✓
09/19/01 14:53	AR1660L37Q	5-128-7	7_091876	

Unless noted, Client Ids are the same for the quant. & confirmation columns

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Verification Signature/Date

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GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-407 OP-407-RUNLOG-8 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_07
SDG NO. : SWLO METHOD FILE(S): XPCBI18

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/20/01 7:17	CONDITIONER		7_092001	
09/20/01 7:42	HEX		7_092002	
09/20/01 8:06	HEX		7_092003	
09/20/01 8:30	PIBLK7J	5-131-7	7_092004	✓
09/20/01 8:55	AR1660L37R	5-128-7	7_092005	✓
09/20/01 9:19	AR1660L37S	5-128-7	7_092006	
09/20/01 9:52	E02R5DL	47294.01DL	7_092007	✓ OK
09/20/01 10:16	E02S5DL	47294.11DL	7_092008	✓ OK
09/20/01 10:43	PIBLK7K	5-131-7	7_092009	✓
09/20/01 11:07	AR1660L37T	5-128-7	7_092010	✓
09/20/01 11:32	AR1660L37U	5-128-7	7_092011	

Unless noted, Client Ids are the same for the quant. & confirmation columns

092001
Verification Signature/Date

9-25-01
Analyst Signature/Date

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