Data Review Wednesday, October 10, 2001
Site Name: Allied Paper (MI)
Case Number: 29602 Laboratory: Southwest Laboratory
SDG: E02M5

US EPA RECORDS CENTER REGION 5
560010

PCBs

Samples:

Sample No	Station Location	Matrix	Date Collected	Date Extracted	Date Analyzed
E02M5	AP-SD053-18-03	Soil	08/14/01	08/16/01	09/13/01
E02M6	AP-SD053-18-04	Soil	08/14/01	08/16/01	09/13/01
E02M7	AP-SD053-26-01	Soil	08/14/01	08/16/01	09/13/01
E02M8	AP-SD053-26-02	Soil	08/14/01	08/16/01	09/13/01
E02M9	AP-SD053-26-03	Soil	08/14/01	08/16/01	09/13/01
E02N0	AP-SD053-26-03DP	Soil	08/14/01	08/16/01	09/13/01
E02N1	AP-SD030-10-01	Soil	08/14/01	08/16/01	09/13/01
E02N2	AP-SD030-10-02	Soil	08/14/01	08/16/01	09/13/01
E02N3	AP-SD030-07-01	Soil	08/14/01	08/16/01	09/13/01
E02N4	AP-SD030-03-01	Soil	08/14/01	08/16/01	09/13/01
E02N5	AP-SD030-08-01	Soil	08/14/01	08/16/01	09/13/01
E02N6	AP-SD030-18-01	Soil	08/14/01	08/16/01	09/13/01
E02N7	AP-SD030-18-02	Soil	08/14/01	08/16/01	09/13/01
E02N8	AP-SD030-18-03	Soil	08/14/01	08/16/01	09/13/01
E02N9	AP-SD030-04-01	Soil	08/14/01	08/16/01	09/14/01
E02P0	AP-SD030-01-01	Soil	08/14/01	08/16/01	09/14/01
E02P1	AP-SD030-13-01	Soil	08/14/01	08/16/01	09/14/01
E02P2	AP-SD030-19-01	Soil	08/14/01	08/16/01	09/14/01
E02P3	AP-SD030-19-01DP	Soil	08/14/01	08/16/01	09/14/01
E02P4	AP-SD030-25-01	Soil	08/14/01	08/16/01	09/14/01

Holding Time:
All samples were extracted and analyzed within the required holding time. The samples arrived in a cooler at 1.2 & 2.1 degrees Celsius.

Method Blank:
The method blank PBLKSE was associated with this SDG. PBLKSE was analyzed on 09/13/01 with (E02M5 thru E02M9, E02N0 thru E02N9, E02P0 thru E02P4, E02N1DL, and MS/MSD). The PBLKSE 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 E02N8. The matrix spike/ matrix spike duplicate recoveries were within the quality control limits (29-135%). Also, the relative percent difference (RPD %) recovery was acceptable.

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

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

Initial And Continuing Verifications Calibration:
The initial calibrations were analyzed for the arochlor, and the recoveries were within the quality control limit of an average (RSD 20%).
The multi-component calibration verification recoveries were within the quality control limit, except in aroclor 1260 for all five levels in PEST I column, and aroclor 1016 #3, #4, aroclor 1260 for all five levels in PEST II were analyzed on 09/13/01 at 1525, 1549 and outside the acceptable limits (an average RSD 15%). Therefore, qualify the results for all the seven aroclor in the following associated samples: E02M5, E02M6, and E02M7 as estimated (J/UJ).

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

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

D67- 4A -AAXQ

DATE: October 3, 2001

CC: D. Geers
J Thorsen
R. Mohl
T Balla

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

OCT - 5 2001
RECEIVED

Attn: Tonya Balla

SITE NAME: Allied Paper

CASE NO.	LAB	NO # OF SAMPLES	SDG	MATRIX
29602	SOUTHWEST	20	E02MS	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

PB

SEP 2 4 2001

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME SOUTHWEST LABORATORY OF OKLAHOMA
CITY/STATE BROKEN ARROW, OKLAHOMA
CASE NO. 29602 SDG NO. E02MS SDG NOS. TO FOLLOW
SAS NO.
CONTRACT NO. 68W9907G
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	6		
4. Volatiles Data				
a. QC Summary				
System Monitoring Compound Summary (Form II	n/a	n/a		
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)				
Method Blank Summary (Form IV VOA)				
GC/MS Instrument Performance Check (Form V VOA)				
Internal Standard Area and RT Summary (Form VIII VOA)				
b. Sample Data				
TCL Results - (Form I VOA-1, VOA-2)				
Tentatively Identified Compounds (Form I VOA-				
Reconstructed total ion chromatograms (RIC) for each sample				
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified				
Quantitation reports				
Mass Spectra of all reported TICs with three best library matches				
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI VOA-1, VOA-2)				
RICs and Quan Reports for all Standards				
Continuing Calibration Data (Form VII VOA-1, VOA-2)				
RICs and Quantitation Reports for all Standards				
d. Raw QC Data				
BFB				
Blank Data				
Martix Spike/Matrix Spike Duplicate Data				

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

CASE NO. 29602 SDG NO. E02M5 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	7	7		
MS/MSD Duplicate Summary (Form III PEST)	8	9		
Method Blank Summary (Form IV PEST)	10	10		

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

CASE NO. 29602 SDG NO. E02M5 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. Pesticides Data (Cont.)				
b. Sample Data	11	135		
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	136	339		
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	340	370		
Matrix Spke/Matrix Spike Duplicate Data	371	388		

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

CASE NO. 29602 SDG NO. E02M5 SDG NOS. TO FOLLOW _____

SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. Pesticides Data (Cont.)				
e. Raw GPC Data	389	438	Om	
f. Raw Florisil Data	n/A	n/A		
7. Miscellaneous Data				
Original preparation and analysis forms or of preparation and analysis logbook pages	439	446		
Internal sample and sample extract transfer chain-of-custody records	447	454		
Screening records	n/A	n/A		
All instrument output, including strip charts from screening activities (describe or list)				
8. EPA Shipping/Receiving Documents				
Airbills (No. of shipments 2)	455	456		
Chain-of-Custody Records	457	459		
Sample Tags	460	479		
Sample Log-in Sheet (Lab & DC1)	480	485		
Miscellaneous Shipping/Receiving Records (describe or list)				
Memos, Changes, Analytical	486	492		
Request Form	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. E03M5 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	(Signature)	(Printed Name/Title)	(Date)
Completed by: (CLP Lab)	Sandra Jackett	Sandra Jackett / Data Clerk	9/21/01
Verified by: (CLP Lab)	Emma Nieto	Emma Nieto / Clerk	9-21-01
Audited by: (EPA)			

SEP 2 4 2001

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

SDG NARRATIVE

September 21, 2001

CONTRACT: 68W99079

CASE NO: 29602

SDG NO: E02M5

SAMPLES: E02M5, E02M6, E02M7, E02M8, E02M9, E02N0, E02N1, E02N1DL, E02N2, E02N3, E02N4, E02N5, E02N6, E02N7, E02N8, E02N8MS, E02N8MSD, E02N9, E02P0, E02P1, E02P2, E02P3 and E02P4.

FRACTION: Pesticide/PCB

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

Columns: The soil samples were analyzed on 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: E02N1DL.

The sample cooler arrived at 1.2 & 2.1 degrees Celsius.

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

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

Case No:	29602
DAS No:	
SDG No:	E02M5

L

Date Shipped:	8/14/2001
Carrier Name:	FedEx
Airbill:	821876982089
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	8-14-01 1740	[signature]	8-15-01 8:30
2			
3			
4			

Sampler Signature: [signature]

For Lab Use Only

Lab Contract No:	68W99029
Unit Price:	569.00
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION		SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt E02M5
E02M0	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038848 (Ice Only) (1)	AP-SL053-36-04	S:	8/14/2001	9:58		OK
E02M1	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038849 (Ice Only) (1)	AP-SL053-36-05	S:	8/14/2001	9:58		8-15-01
E02M2	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038850 (Ice Only) (1)	AP-SL053-36-06	S:	8/14/2001	9:58		original in SDG# E02K5 8-15-01
E02M3	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038851 (Ice Only) (1)	AP-SL053-18-01	S:	8/14/2001	8:20		
E02M4	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038852 (Ice Only) (1)	AP-SL053-18-02	S:	8/14/2001	8:20		
E02M5	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038853 (Ice Only) (1)	AP-SL053-18-03	S:	8/14/2001	8:20		
E02M6	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038854 (Ice Only) (1)	AP-SL053-18-04	S:	8/14/2001	8:20		
E02M7	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038855 (Ice Only) (1)	AP-SL053-26-01	S:	8/14/2001	9:45		
E02H0	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038808 (Ice Only) (1)	AP-SL053-07-03	S:	8/13/2001	14:40		
E02H1	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038809 (Ice Only) (1)	AP-SL053-07-04	S:	8/13/2001	14:40		

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:
	E02G9, E02J8, E02L9		1.2 TB	177828, 177829

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: 5-490998136-081401-0001

LABORATORY COPY

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

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

Case No:	29602
DAS No:	
SDG No:	E02M5

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:	569.00
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION		SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY E02M5 Sample Condition On Receipt
E02M8	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038856 (Ice Only) (1)	AP-SL053-26-02	S:	8/14/2001	9:45		OK
E02M9	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038857 (Ice Only) (1)	AP-SL053-26-03	S:	8/14/2001	9:45		8-16-01
E02N0	Soil/Sediment/ Joe Ruiz	L/C	PCBs (21)	038858 (Ice Only) (1)	AP-SL053-26-03DP	S:	8/14/2001	9:45		
E02N1	Sediment/ Joe Ruiz	L/C	PCBs (21)	038859 (Ice Only) (1)	AP-SD030-10-01	S:	8/14/2001	15:10		
E02N2	Sediment/ Joe Ruiz	L/C	PCBs (21)	038860 (Ice Only) (1)	AP-SD030-10-02	S:	8/14/2001	15:10		
E02N3	Sediment/ Joe Ruiz	L/C	PCBs (21)	038861 (Ice Only) (1)	AP-SD030-07-01	S:	8/14/2001	14:56		
E02N4	Sediment/ Joe Ruiz	L/G	PCBs (21)	038862 (Ice Only) (1)	AP-SD030-03-01	S:	8/14/2001	14:50		
E02N5	Sediment/ Joe Ruiz	L/G	PCBs (21)	038863 (Ice Only) (1)	AP-SD030-08-01	S:	8/14/2001	15:03		
E02N6	Sediment/ Joe Ruiz	L/G	PCBs (21)	038864 (Ice Only) (1)	AP-SD030-18-01	S:	8/14/2001	15:33		
E02N7	Sediment/ Joe Ruiz	L/G	PCBs (21)	038865 (Ice Only) (1)	AP-SD030-18-02	S:	8/14/2001	15:33		

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

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

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

Case No:	29602
DAS No:	
SDG No:	E02MS

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

Sampler Signature:

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

For Lab Use Only

Lab Contract No:	68W99079
Unit Price:	569.00
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION		SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt E02MS
E02N8	Sediment/ Joe Ruiz	L/G	PCBs (21)	038866 (Ice Only) (1)	AP-SD030-18-03	S:	8/14/2001	15:33		OK
E02N9	Sediment/ Joe Ruiz	L/G	PCBs (21)	038867 (Ice Only) (1)	AP-SD030-04-01	S:	8/14/2001	16:00		8-16-01
E02P0	Sediment/ Joe Ruiz	L/G	PCBs (21)	038868 (Ice Only) (1)	AP-SD030-01-01	S:	8/14/2001	16:52		
E02P1	Sediment/ Joe Ruiz	L/G	PCBs (21)	038869 (Ice Only) (1)	AP-SD030-13-01	S:	8/14/2001	17:26		
E02P2	Sediment/ Joe Ruiz	L/G	PCBs (21)	038870 (Ice Only) (1)	AP-SD030-19-01	S:	8/14/2001	17:15		
E02P3	Sediment/ Joe Ruiz	L/G	PCBs (21)	038871 (Ice Only) (1)	AP-SD030-19-01DP	S:	8/14/2001	17:15		
* E02P4	Sediment/ Joe Ruiz	L/G	PCBs (21)	038872 (Ice Only) (1)	AP-SD030-25-01	S:	8/14/2001	15:45		
E02P5	Sediment/ Joe Ruiz	L/G	PCBs (21)	038873 (Ice Only) (1)	AP-SD030-35-01	S:	8/14/2001	16:15		
E02P6	Sediment/ Joe Ruiz	L/G	PCBs (21)	038874 (Ice Only) (1)	AP-SD030-05-01	S:	8/14/2001	16:50		
E02P7	Sediment/ Joe Ruiz	L/G	PCBs (21)	038875 (Ice Only) (1)	AP-SD030-02-01	S:	8/14/2001	16:58		

* SDG Final Sample.

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

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

R Number: 5-490998136-081501-0001

LABORATORY COPY

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

2F
SOIL AROCLOR SURROGATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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	PBLKSE	64	64	87	89	0
02	ELCS1	79	82	107	109	0
03	ELCS2	61	62	96	97	0
04	E02M5	70	72	94	94	0
05	E02M6	61	62	90	93	0
06	E02M7	68	74	89	90	0
07	E02M8	69	77	92	92	0
08	E02M9	61	60	87	87	0
09	E02N0	60	62	90	89	0
10	E02N1	76	54	88	98	0
11	E02N2	58	56	76	93	0
12	E02N3	69	74	89	86	0
13	E02N4	70	74	93	98	0
14	E02N5	74	76	100	106	0
15	E03N6	60	62	87	88	0
16	E02N7	66	69	91	92	0
17	E02N8	64	65	90	94	0
18	E02N8MS	63	64	94	97	0
19	E02N8MSD	65	66	114	118	0
20	E02N9	60	62	107	113	0
21	E02P0	76	79	110	117	0
22	E02P1	64	66	100	105	0
23	E02P2	66	69	98	104	0
24	E02P3	53	53	84	90	0
25	E02P4	64	64	94	101	0
26	E02N1DL	209	52	67	84	0
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

FORM II PCB-1

3H

SOIL AROCLOR LABORATORY CONTROL SPIKE/ DUPLICATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

LCS Sample NO.: ELCS1

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aroclor-1254	133	129	97	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	133	103	77	22	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.: E02M5

Matrix Spike - Client Sample NO.: E02N8

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aroclor-1254	151	63.1	180	77	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	152	173	72	4	50	29-135

Column to be used to flag recovery values

* Values outside of QC limits

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

Comments: _____

4C

AROCLOR METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLKSE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Lab Sample ID: BL0816SE Lab File ID: 7_091306

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

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

Date Analyzed (1): 09/13/01 Date Analyzed (2): 09/13/01

Time Analyzed (1): 1033 Time Analyzed (2): 1033

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	LC0816SE	09/13/01	09/13/01
02	ELCS2	LD0816SE	09/13/01	09/13/01
03	E02M5	47282.01	09/13/01	09/13/01
04	E02M6	47282.02	09/13/01	09/13/01
05	E02M7	47282.03	09/13/01	09/13/01
06	E02M8	47292.01	09/13/01	09/13/01
07	E02M9	47292.02	09/13/01	09/13/01
08	E02N0	47292.03	09/13/01	09/13/01
09	E02N1	47292.04	09/13/01	09/13/01
10	E02N2	47292.05	09/13/01	09/13/01
11	E02N3	47292.06	09/13/01	09/13/01
12	E02N4	47292.07	09/13/01	09/13/01
13	E02N5	47292.08	09/13/01	09/13/01
14	E03N6	47292.09	09/13/01	09/13/01
15	E02N7	47292.10	09/13/01	09/13/01
16	E02N8	47292.11	09/13/01	09/13/01
17	E02N8MS	47292.12MS	09/14/01	09/14/01
18	E02N8MSD	47292.13MSD	09/14/01	09/14/01
19	E02N9	47292.14	09/14/01	09/14/01
20	E02P0	47292.15	09/14/01	09/14/01
21	E02P1	47292.16	09/14/01	09/14/01
22	E02P2	47292.17	09/14/01	09/14/01
23	E02P3	47292.18	09/14/01	09/14/01
24	E02P4	47292.19	09/14/01	09/14/01
25	E02N1DL	47292.04DL	09/19/01	09/19/01
26				

Comments: _____

page 1 of 1

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02M5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47282.01

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

% Moisture: 83 decanted: (Y/N) __ Date Received: 08/15/01

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

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/13/01

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	190	U
11104-28-2	Aroclor-1221	190	U
11141-16-5	Aroclor-1232	190	U
53469-21-9	Aroclor-1242	190	U
12672-29-6	Aroclor-1248	190	U
11097-69-1	Aroclor-1254	190	U
11096-82-5	Aroclor-1260	190	U
Surrogate amount spiked		38.82	

TBS
10-9-01

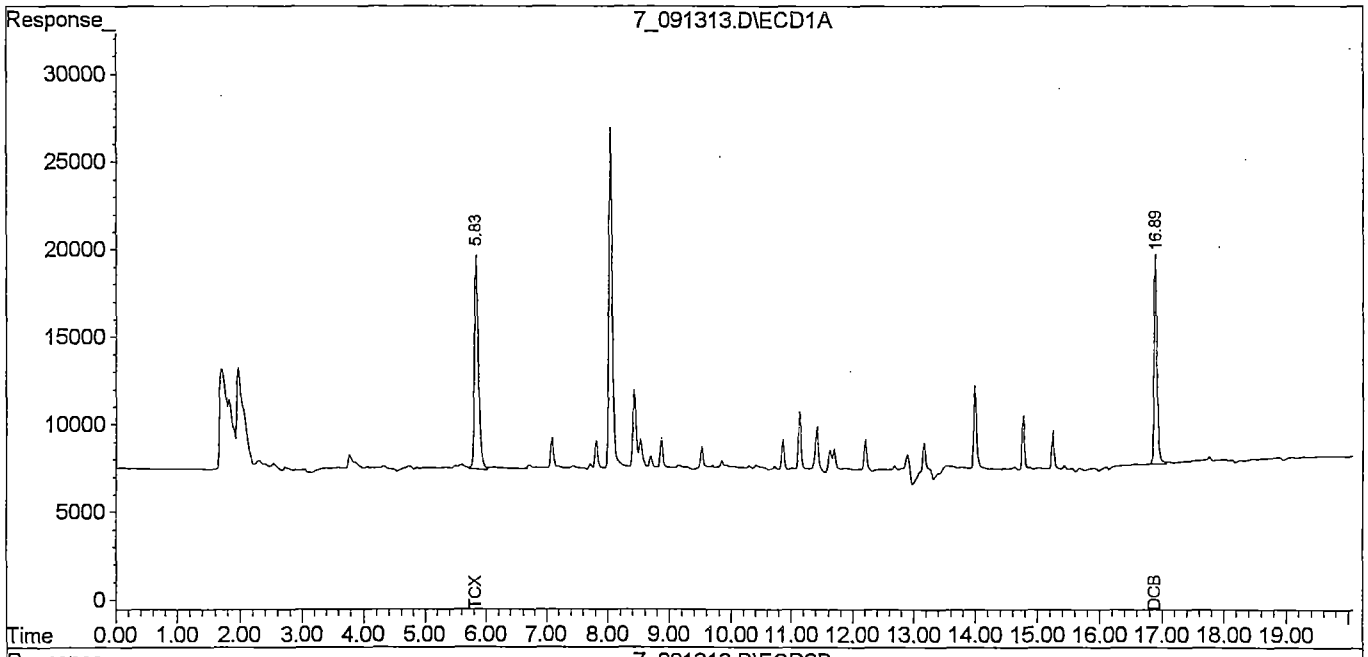
FORM I PCB

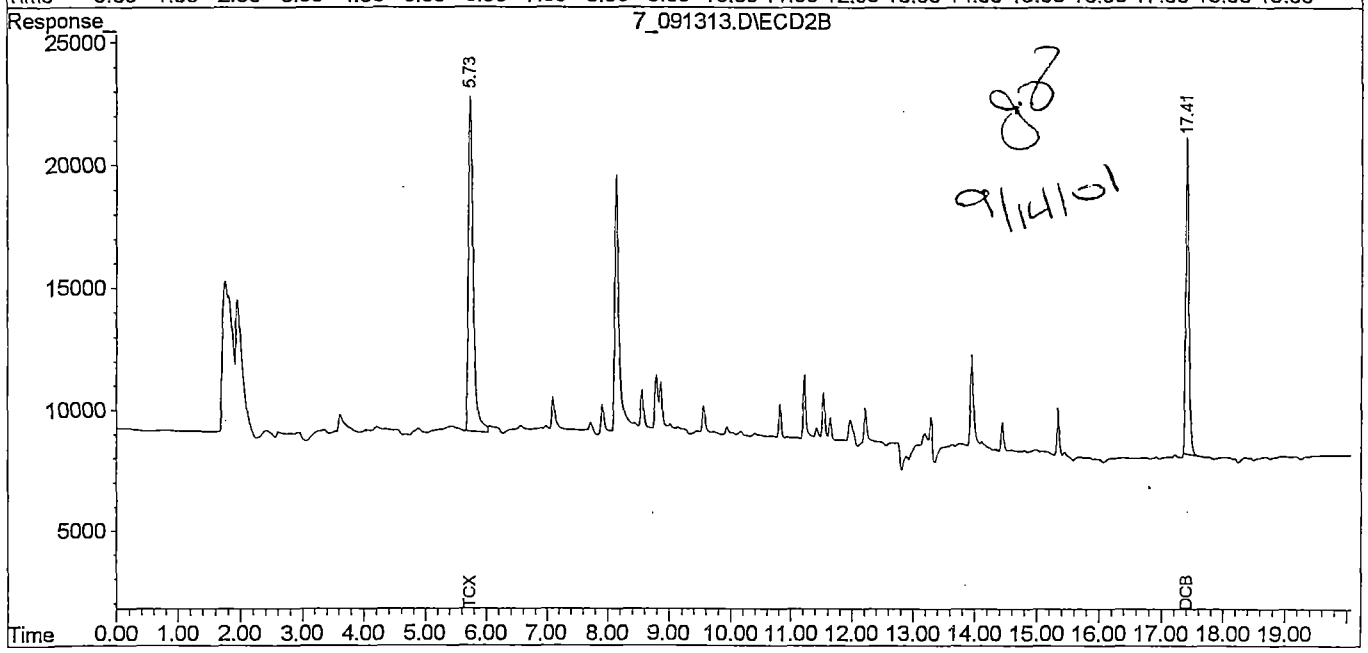
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091313.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091313.D\ECD2B.CH
Acq On : 13 Sep 2001 13:23 Operator: SA
Sample : 47282.01 *E02M5 * Inst : HP_07
Misc : *EPA*30.3G/5.0ML*83 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 9:26 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_091313.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091313.D\ECD2B.CH
Acq On : 13 Sep 2001 13:23 Operator: SA
Sample : 47282.01 *E02M5 * Inst : HP_07
Misc : *EPA*30.3G/5.0ML*83 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 9:26 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	570531	742620	27.3	27.8
	Spiked Amount 38.827			Recovery	=	70.31%	71.60%
22)	S DCB	16.89	17.41	398474	455390	36.6	36.7
	Spiked Amount 38.827			Recovery	=	94.26%	94.52%
	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.

E02M6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47282.02

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

% Moisture: 59 decanted: (Y/N) __ Date Received: 08/15/01

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

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/13/01

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	80	UJ
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	80	U
53469-21-9	Aroclor-1242	420	J
12672-29-6	Aroclor-1248	80	UJ
11097-69-1	Aroclor-1254	210	J
11096-82-5	Aroclor-1260	84	J
Surrogate amount spiked		16.10	

TBS
10-9-01

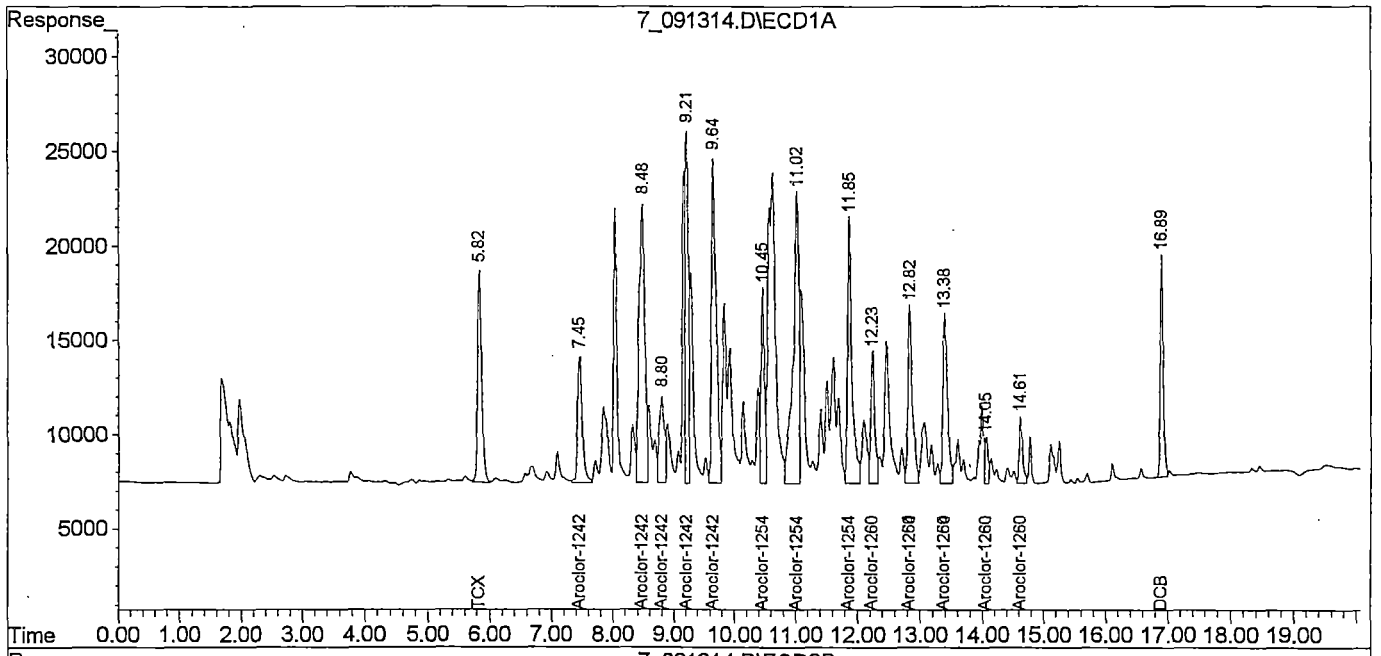
FORM I PCB

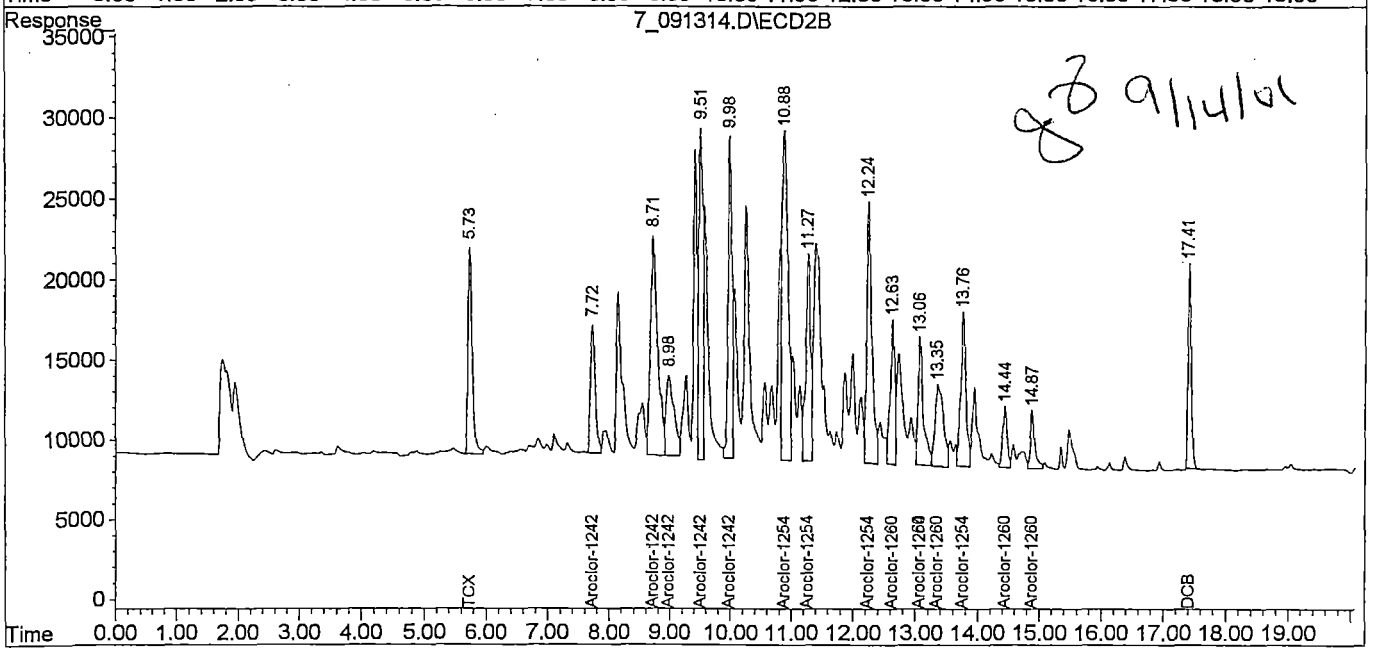
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091314.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091314.D\ECD2B.CH
Acq On : 13 Sep 2001 13:47 Operator: SA
Sample : 47282.02 *E02M6 * Inst : HP_07
Misc : *EPA*30.3G/5.0ML*59 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 9:32 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_091314.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091314.D\ECD2B.CH
Acq On : 13 Sep 2001 13:47 Operator: SA
Sample : 47282.02 *E02M6 * Inst : HP_07
Misc : *EPA*30.3G/5.0ML*59 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 9:32 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

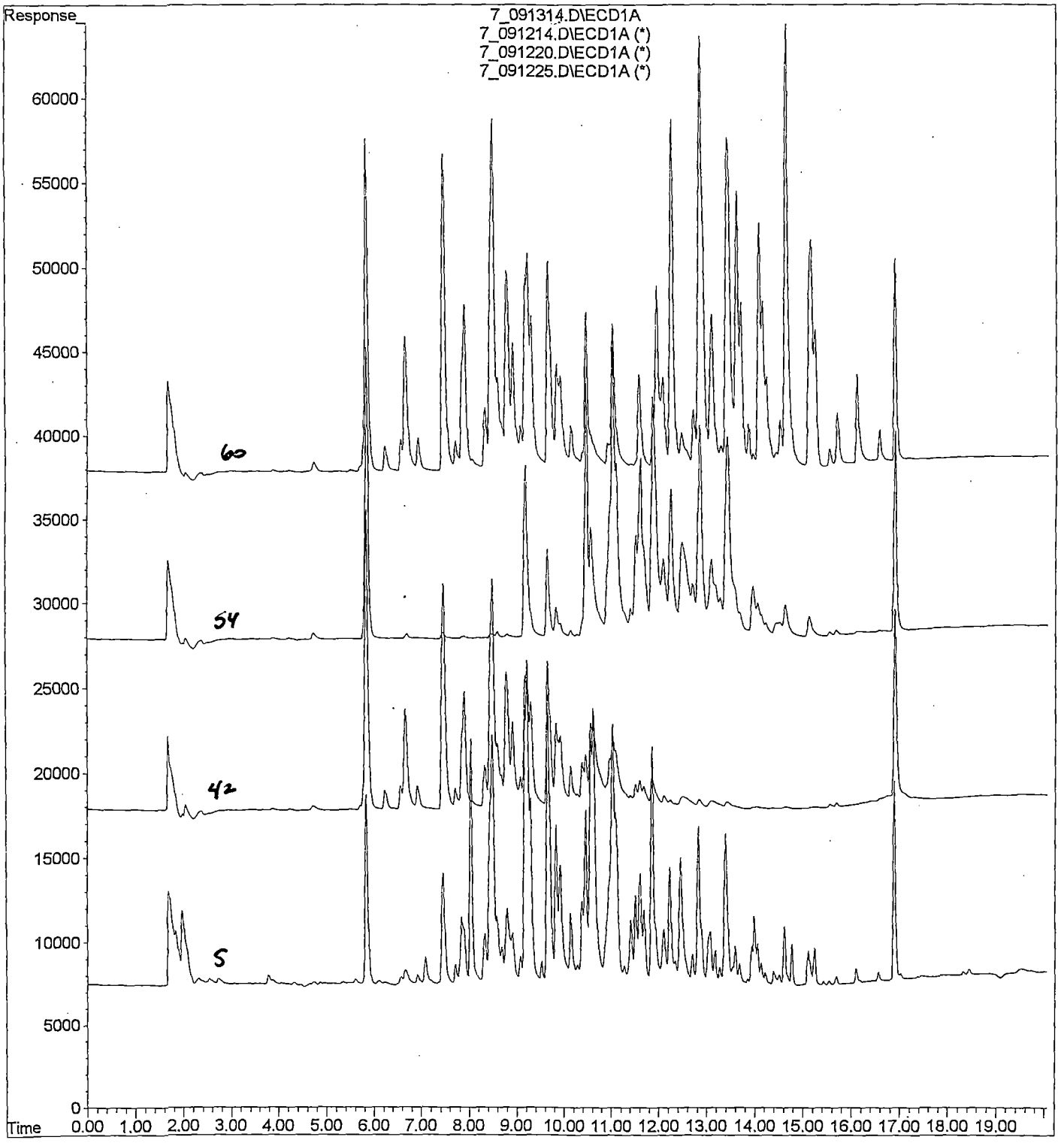
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	497338	648220	9.850	10.1
	Spiked Amount 16.099			Recovery	=	61.18%	62.74%
22)	S DCB	16.89	17.41	381555	448764	14.5	15.0
	Spiked Amount 16.099			Recovery	=	90.07%	93.17%
	Target Compounds:						
7)	L4 Aroclor-1242	7.45	7.72	361550	464133	167.9	161.3
8)	L4 Aroclor-1242 {2}	8.48	8.71	992150	1135070	385.0	404.4
9)	L4 Aroclor-1242 {3}	8.80	8.98	280414	456032	204.1	220.6
10)	L4 Aroclor-1242 {4}	9.21	9.51	717589	952171	718.3m	755.2m
11)	L4 Aroclor-1242 {5}	9.64	9.98	937165	859918	624.3	735.3
	Sum Aroclor-1242			3288868	3867325	2099.6	2276.9
	Average Aroclor-1242					419.913	455.371
12)	L6 Aroclor-1254	10.46	10.88	414930	1387982	205.8	417.1m #
13)	L6 Aroclor-1254 {2}	11.02	11.27	1020329	670551	313.0	250.3
14)	L6 Aroclor-1254 {3}	11.86	12.24	698484	937513	210.6	179.0
15)	L6 Aroclor-1254 {4}	12.82	13.06	491539	457731	194.3	176.4
16)	L6 Aroclor-1254 {5}	13.38	13.76	450703	542199	134.4	116.1
	Sum Aroclor-1254			3075985	3995976	1058.2	1138.9
	Average Aroclor-1254					211.630	227.787
17)	L7 Aroclor-1260	12.23	12.63	307239	451107	107.5	107.5
18)	L7 Aroclor-1260 {2}	12.82	13.06f	491539	457731	104.2	115.1
19)	L7 Aroclor-1260 {3}	13.38	13.35f	450703	474418	123.6	131.9m
20)	L7 Aroclor-1260 {4}	14.05	14.44	79798	192663	49.0	85.4 #
21)	L7 Aroclor-1260 {5}	14.61	14.88f	131812	175767	34.6	44.7 #
	Sum Aroclor-1260			1461092	1751686	337.2	390.1
	Average Aroclor-1260					83.788	96.917

CD 9.14.01

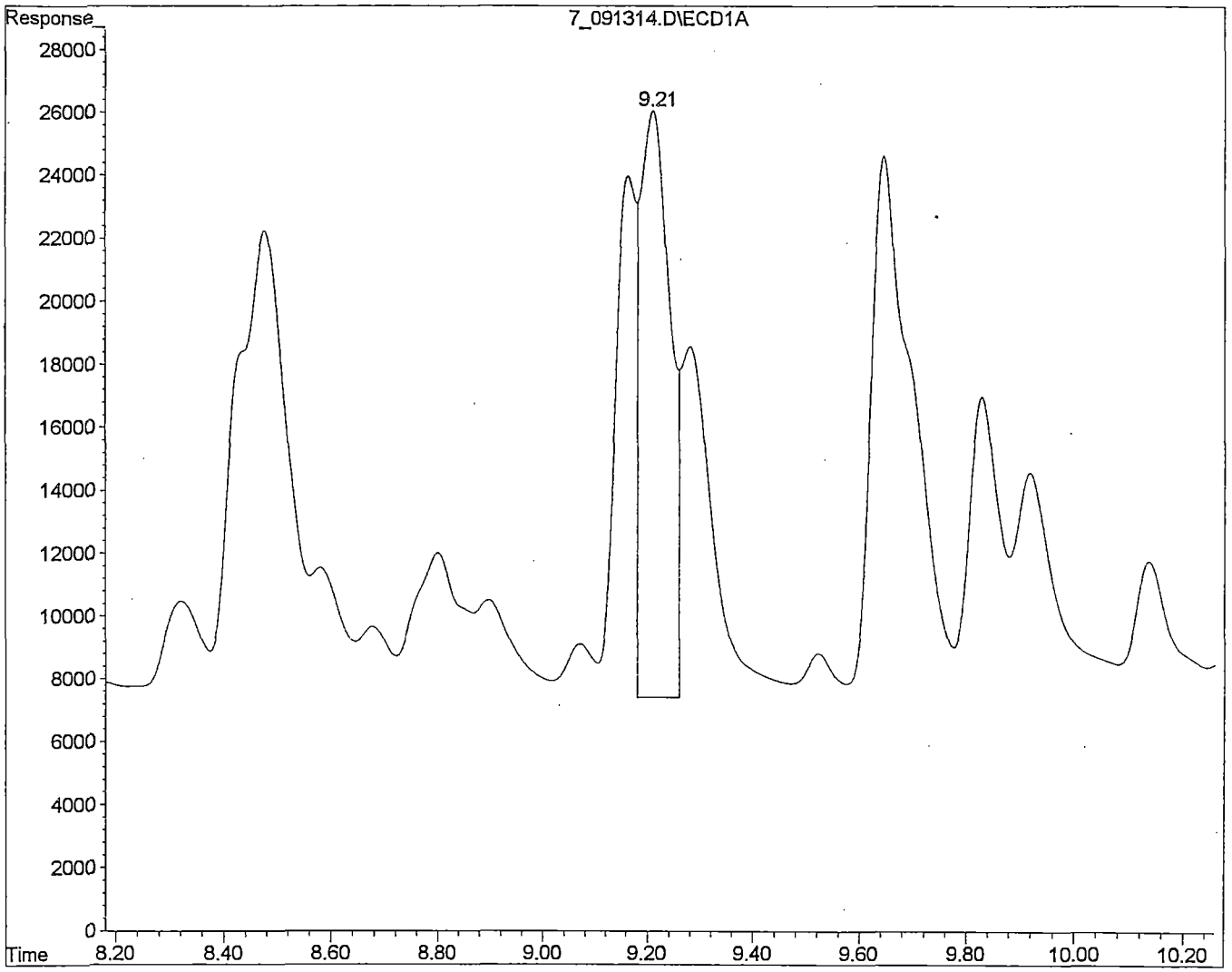
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

File : F:\HPCHEM\HP\7\DATA\09_13_01\7_091314.D
Operator : SA
Acquired : 13 Sep 2001 13:47 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47282.02 *E02M6 *
Misc Info : *EPA*30.3G/5.0ML*59
Vial Number: 14



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091314.D
Date Acquired: 13 Sep 2001 13:47
Inst: HP_07 Operator ID: SA
Name: 47282.02 *E02M6 *
Misc: *EPA*30.3G/5.0ML*59
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 9:32 2001 Quant Results File: XPCBI12.RES



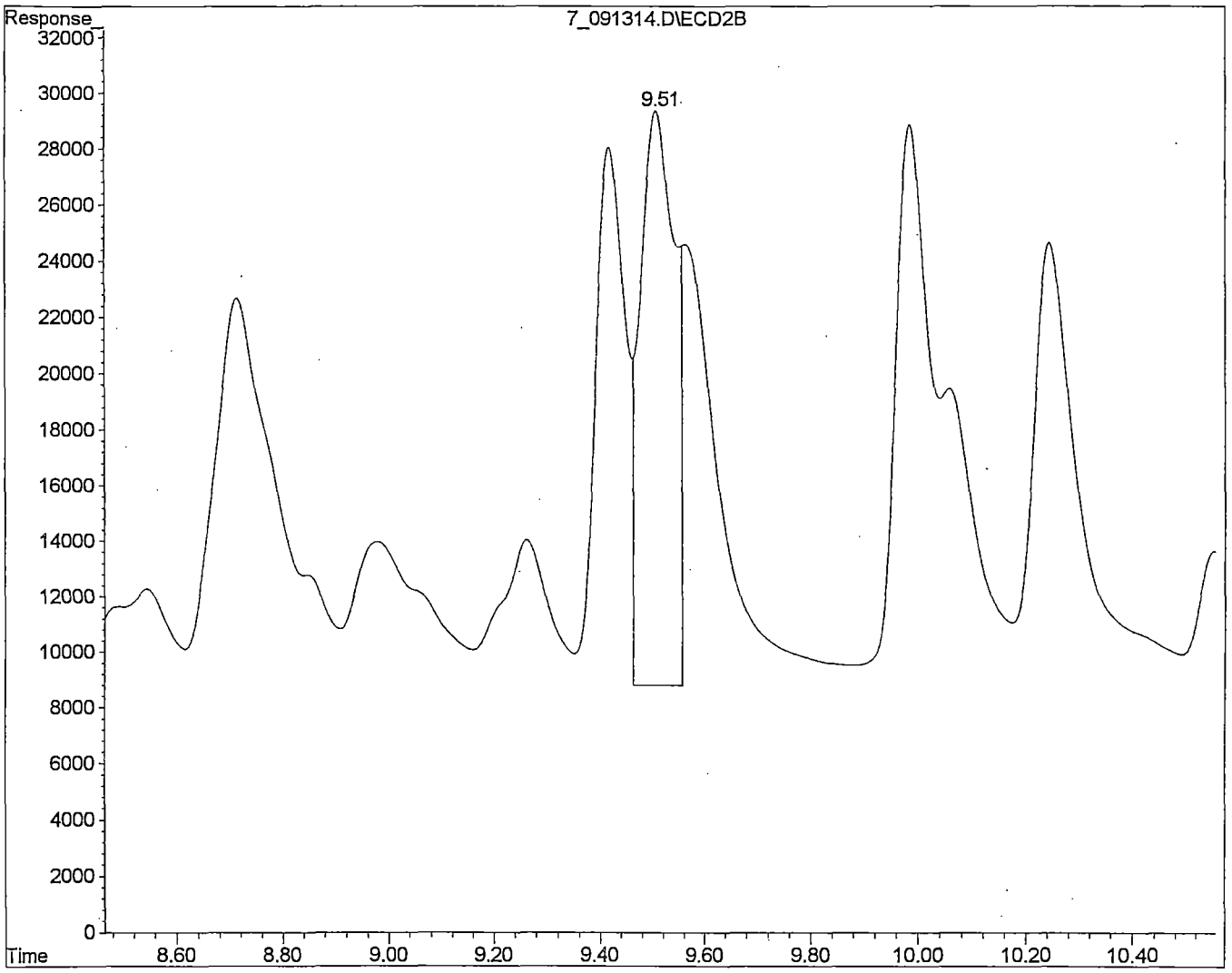
Aroclor-1242 {4} 9.21min area: 717589 m

Integration Time Range: 9.18 - 9.26

F:\HPCHEM\HP\7\DATA\09_13_01\7_091314.D
Report generated: Fri Sep 14 09:49:37 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091314.D
Date Acquired: 13 Sep 2001 13:47
Inst: HP_07 Operator ID: SA
Name: 47282.02 *E02M6 *
Misc: *EPA*30.3G/5.0ML*59
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 9:32 2001 Quant Results File: XPCBI12.RES



CO 9.14.4

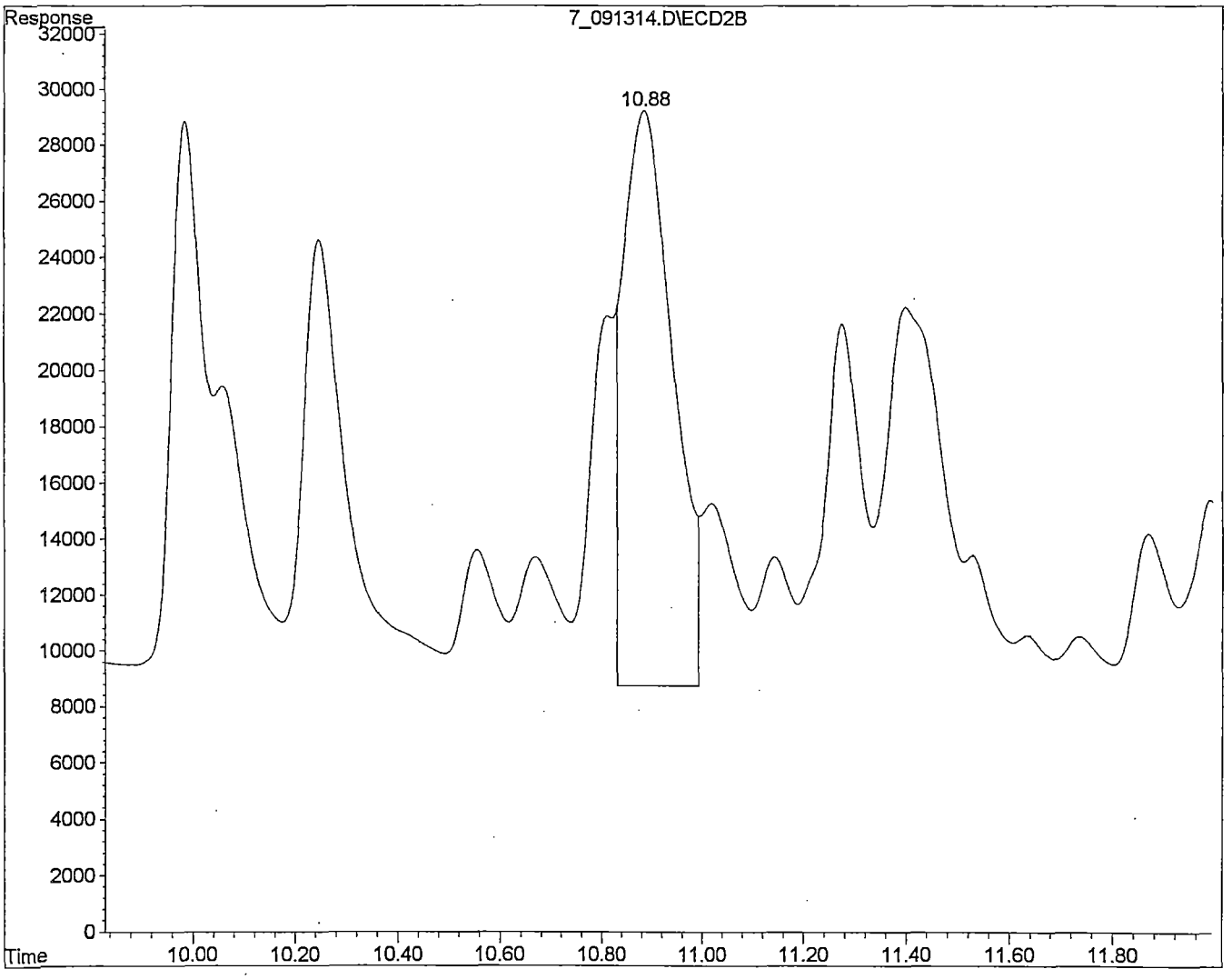
Aroclor-1242 {4} #2 9.51min area: 952171 m

Integration Time Range: 9.46 - 9.56

F:\HPCHEM\HP\7\DATA\09_13_01\7_091314.D
Report generated: Fri Sep 14 09:49:38 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091314.D
Date Acquired: 13 Sep 2001 13:47
Inst: HP_07 Operator ID: SA
Name: 47282.02 *E02M6 *
Misc: *EPA*30.3G/5.0ML*59
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 9:32 2001 Quant Results File: XPCBI12.RES



cd 9.14.01

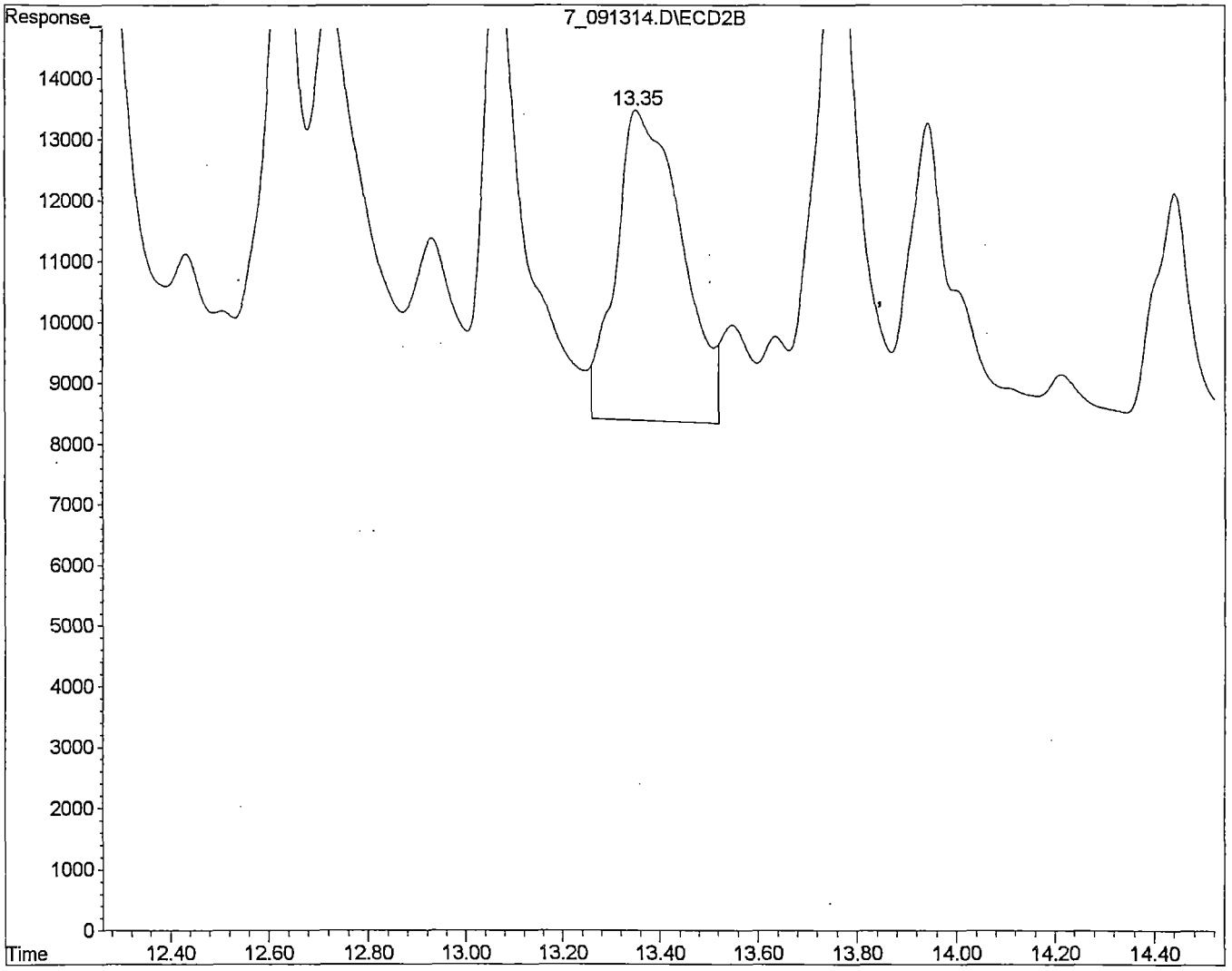
Aroclor-1254 #2 10.88min area: 1387982 m

Integration Time Range: 10.83 - 10.99

F:\HPCHEM\HP\7\DATA\09_13_01\7_091314.D
Report generated: Fri Sep 14 09:49:39 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091314.D
Date Acquired: 13 Sep 2001 13:47
Inst: HP_07 Operator ID: SA
Name: 47282.02 *E02M6 *
Misc: *EPA*30.3G/5.0ML*59
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 9:32 2001 Quant Results File: XPCBI12.RES



CO 9-14-9

Aroclor-1260 {3} #2 13.35min area: 474418 m

Integration Time Range: 13.26 - 13.52

F:\HPCHEM\HP\7\DATA\09_13_01\7_091314.D
Report generated: Fri Sep 14 09:49:39 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02M7

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47282.03

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

% Moisture: 76 decanted: (Y/N) __ Date Received: 08/15/01

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

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/13/01

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	140	U
11104-28-2	Aroclor-1221	140	U
11141-16-5	Aroclor-1232	140	U
53469-21-9	Aroclor-1242	140	U
12672-29-6	Aroclor-1248	140	U
11097-69-1	Aroclor-1254	140	U
11096-82-5	Aroclor-1260	140	U
Surrogate amount spiked		27.32	

TBS 10-9-01

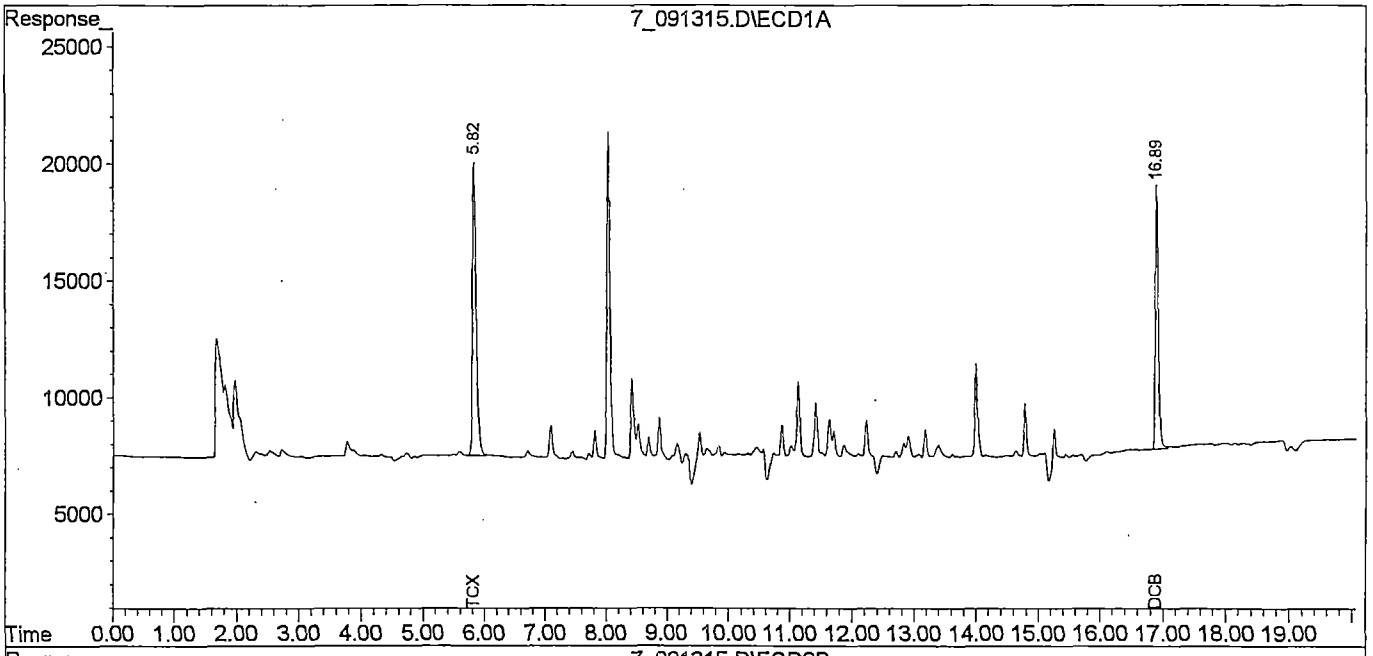
FORM I PCB

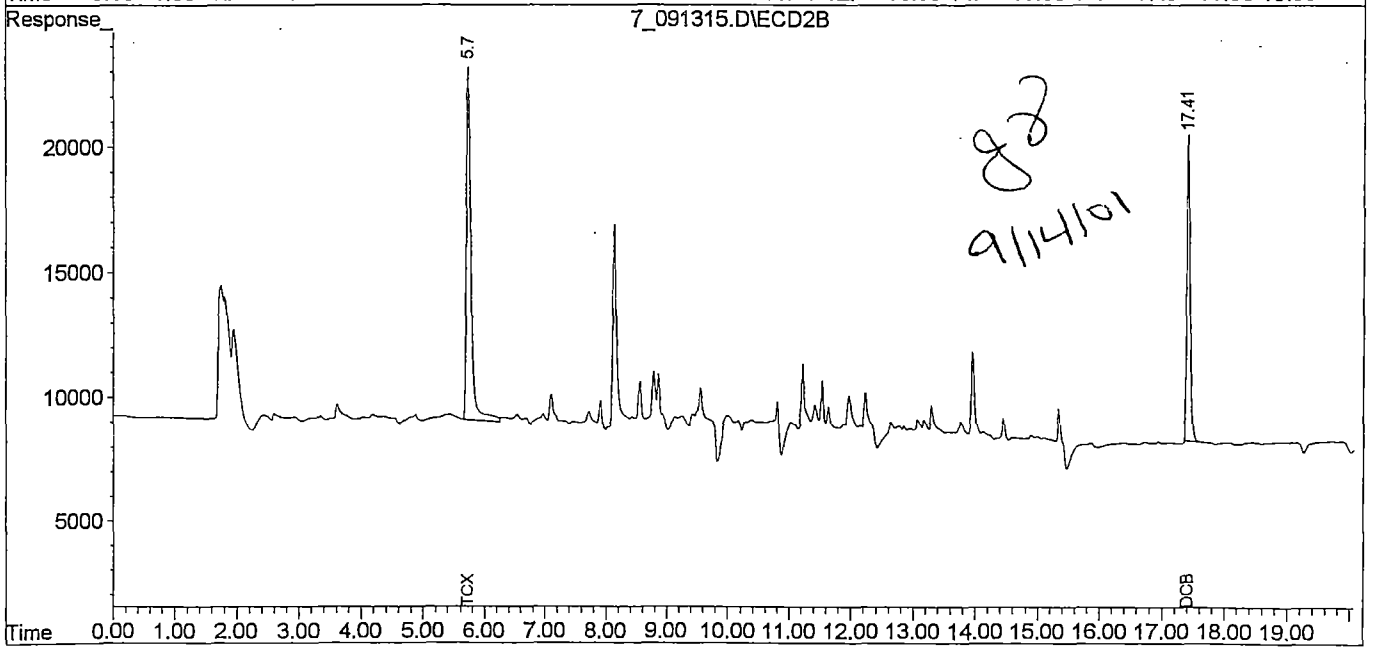
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091315.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091315.D\ECD2B.CH
Acq On : 13 Sep 2001 14:11 Operator: SA
Sample : 47282.03 *E02M7 * Inst : HP_07
Misc : *EPA*30.5G/5.0ML*76 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 9:53 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





gg
9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091315.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091315.D\ECD2B.CH
Acq On : 13 Sep 2001 14:11 Operator: SA
Sample : 47282.03 *E02M7 * Inst : HP_07
Misc : *EPA*30.5G/5.0ML*76 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 9:53 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	549825	767173	18.5	20.2
	Spiked Amount 27.322			Recovery	=	67.71%	73.93%
22)	S DCB	16.89	17.41	375980	434146	24.3	24.6
	Spiked Amount 27.322			Recovery	=	88.94%	90.04%

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.

E02M8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47292.01

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

% Moisture: 83 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: 09/13/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

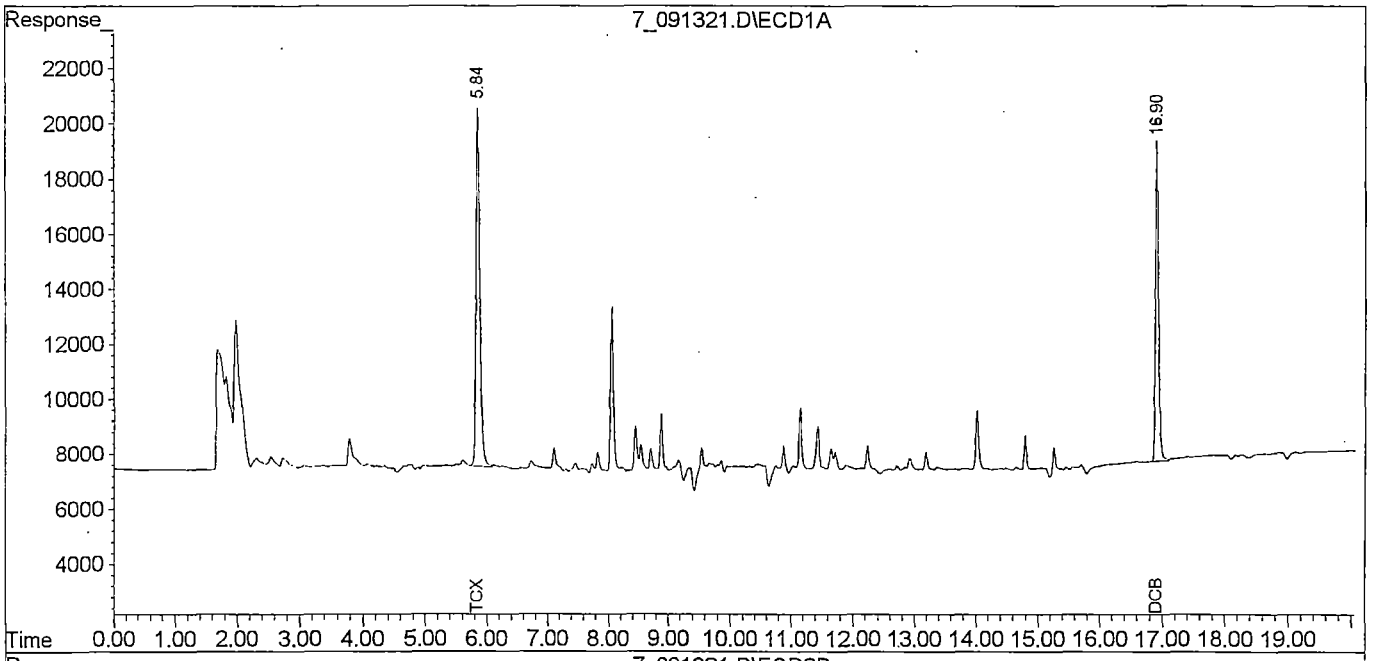
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	190	U
11104-28-2	Aroclor-1221	190	U
11141-16-5	Aroclor-1232	190	U
53469-21-9	Aroclor-1242	190	U
12672-29-6	Aroclor-1248	190	U
11097-69-1	Aroclor-1254	190	U
11096-82-5	Aroclor-1260	190	U
	Surrogate amount spiked	38.96	

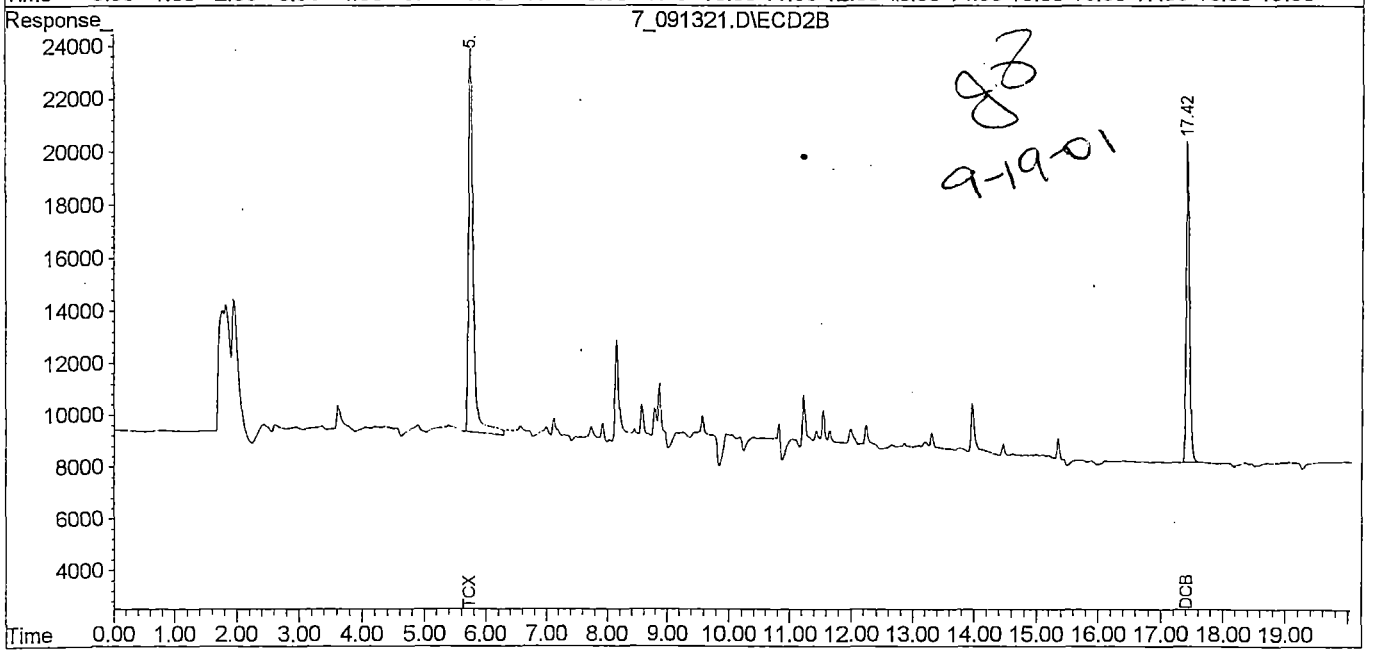
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091321.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091321.D\ECD2B.CH
Acq On : 13 Sep 2001 17:43 Operator: SA
Sample : 47292.01 *E02M8 * Inst : HP_07
Misc : *EPA*30.2G/5.0ML*83 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 9:52 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





gg
9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091321.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091321.D\ECD2B.CH
Acq On : 13 Sep 2001 17:43 Operator: SA
Sample : 47292.01 *E02M8 * Inst : HP_07
Misc : *EPA*30.2G/5.0ML*83 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 9:52 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.84f	5.74	562226	794186	26.9	29.8
	Spiked Amount 38.956			Recovery	=	69.05%	76.50%
22)	S DCB	16.90	17.42	387973	443433	35.7	35.8
	Spiked Amount 38.956			Recovery	=	91.64%	91.90%
	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.

E02M9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47292.02

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

% Moisture: 83 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: 09/13/01

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	190	U
11104-28-2	Aroclor-1221	190	U
11141-16-5	Aroclor-1232	190	U
53469-21-9	Aroclor-1242	190	U
12672-29-6	Aroclor-1248	190	U
11097-69-1	Aroclor-1254	190	U
11096-82-5	Aroclor-1260	190	U
	Surrogate amount spiked	38.82	

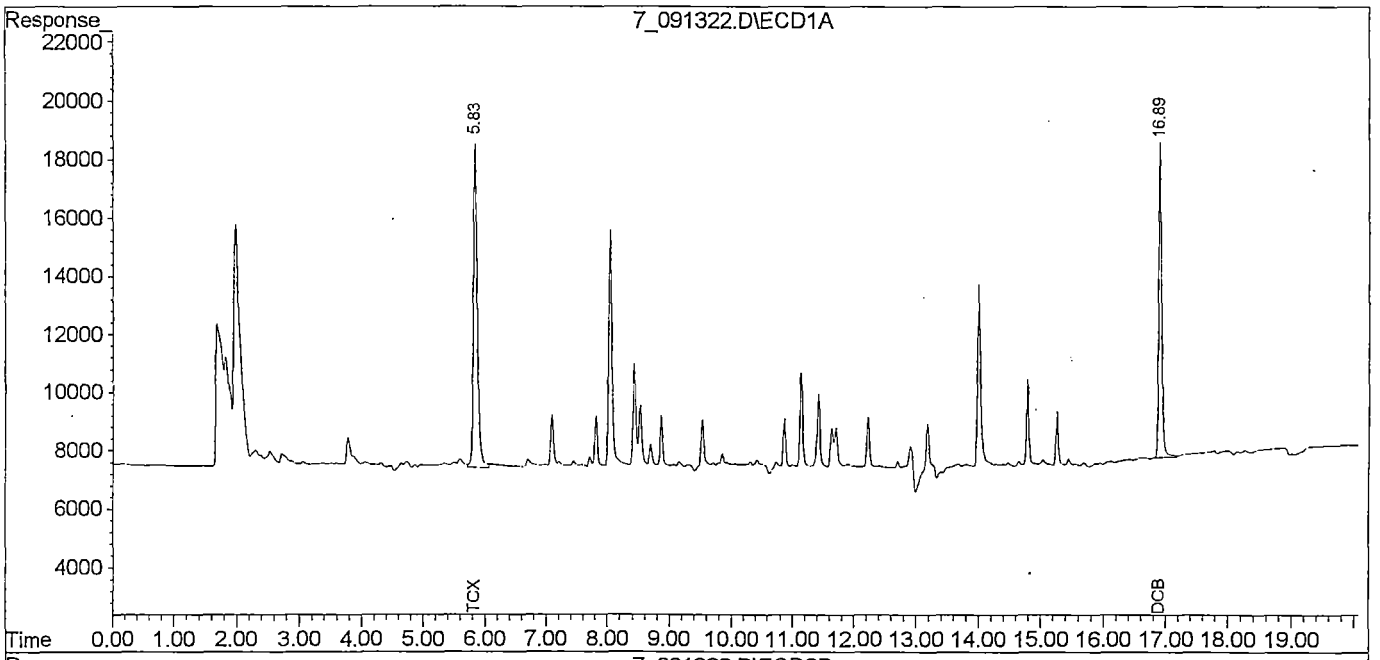
FORM I PCB

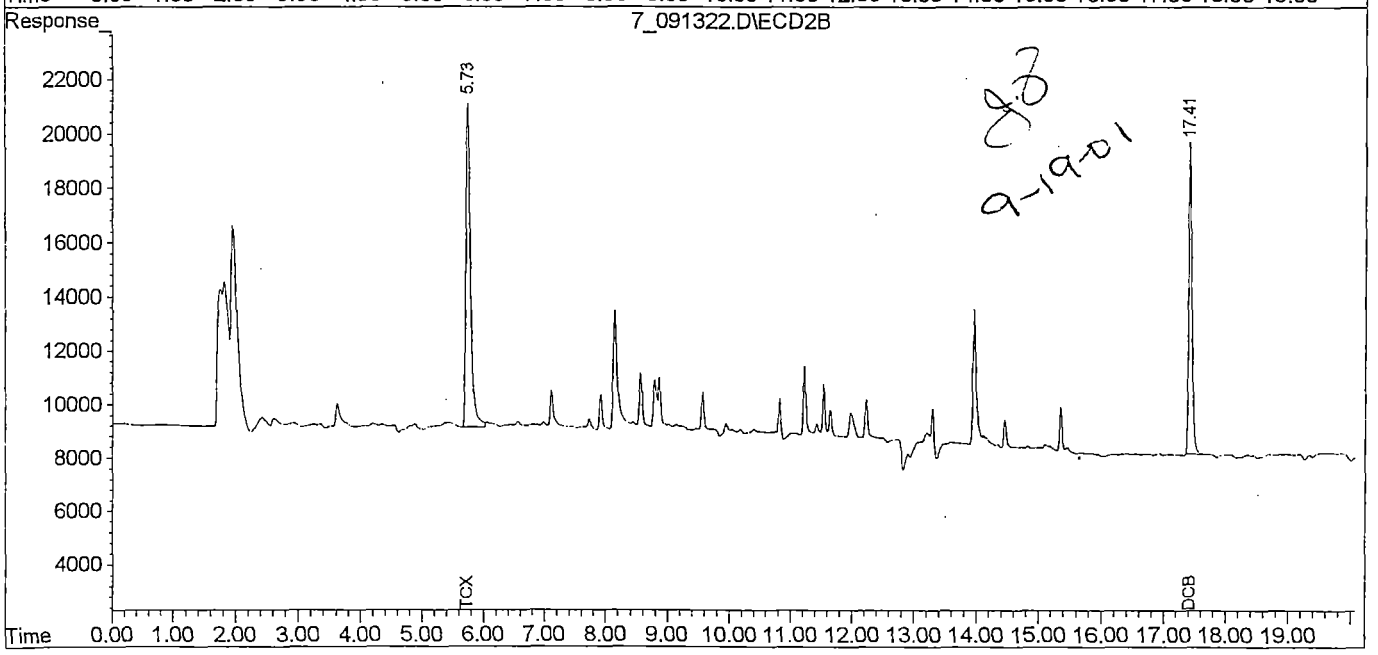
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091322.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091322.D\ECD2B.CH
Acq On : 13 Sep 2001 18:07 Operator: SA
Sample : 47292.02 *E02M9 * Inst : HP_07
Misc : *EPA*30.3G/5.0ML*83 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 9:54 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





8-3
9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091322.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091322.D\ECD2B.CH
Acq On : 13 Sep 2001 18:07 Operator: SA
Sample : 47292.02 *E02M9 * Inst : HP_07
Misc : *EPA*30.3G/5.0ML*83 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 9:54 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	496945	622842	23.7	23.3
	Spiked Amount 38.827			Recovery	=	61.04%	60.01%
22)	S DCB	16.89	17.41	369078	421626	33.9	33.9
	Spiked Amount 38.827			Recovery	=	87.31%	87.31%
	Target Compounds:						

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02N0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47292.03

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

% Moisture: 83 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: 09/13/01

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	190	U
11104-28-2	Aroclor-1221	190	U
11141-16-5	Aroclor-1232	190	U
53469-21-9	Aroclor-1242	190	U
12672-29-6	Aroclor-1248	190	U
11097-69-1	Aroclor-1254	190	U
11096-82-5	Aroclor-1260	190	U
	Surrogate amount spiked	38.82	

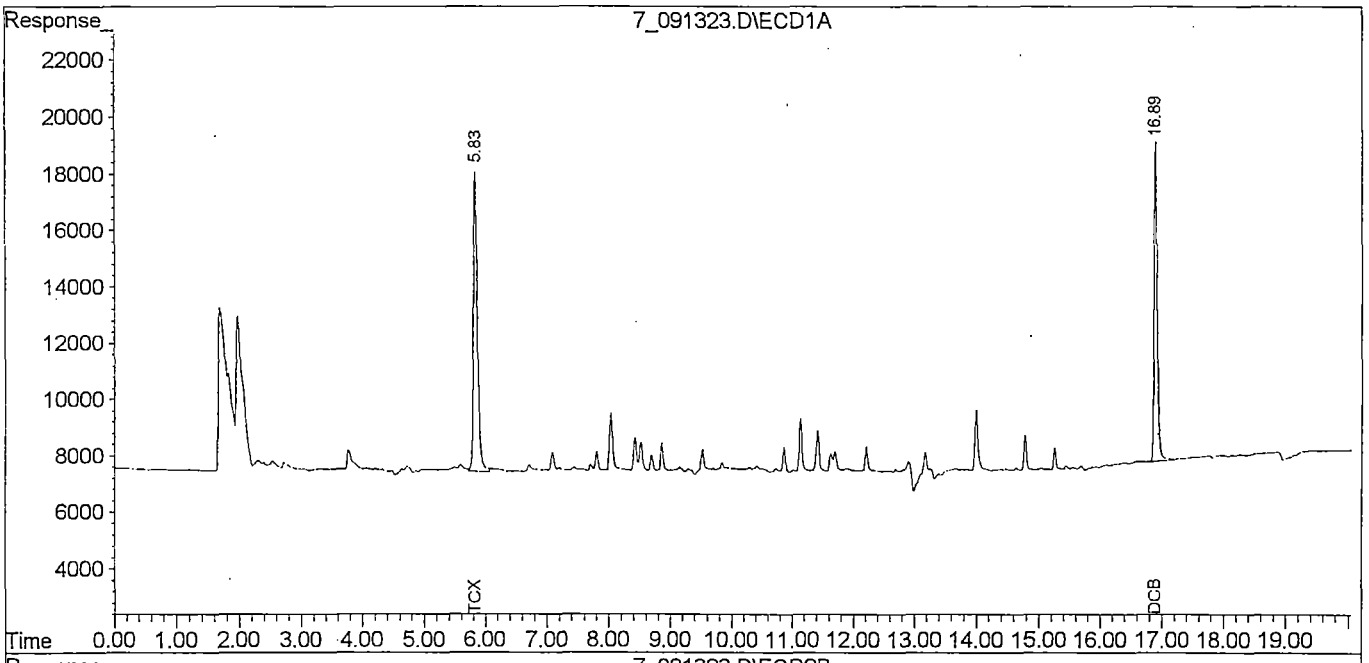
FORM I PCB

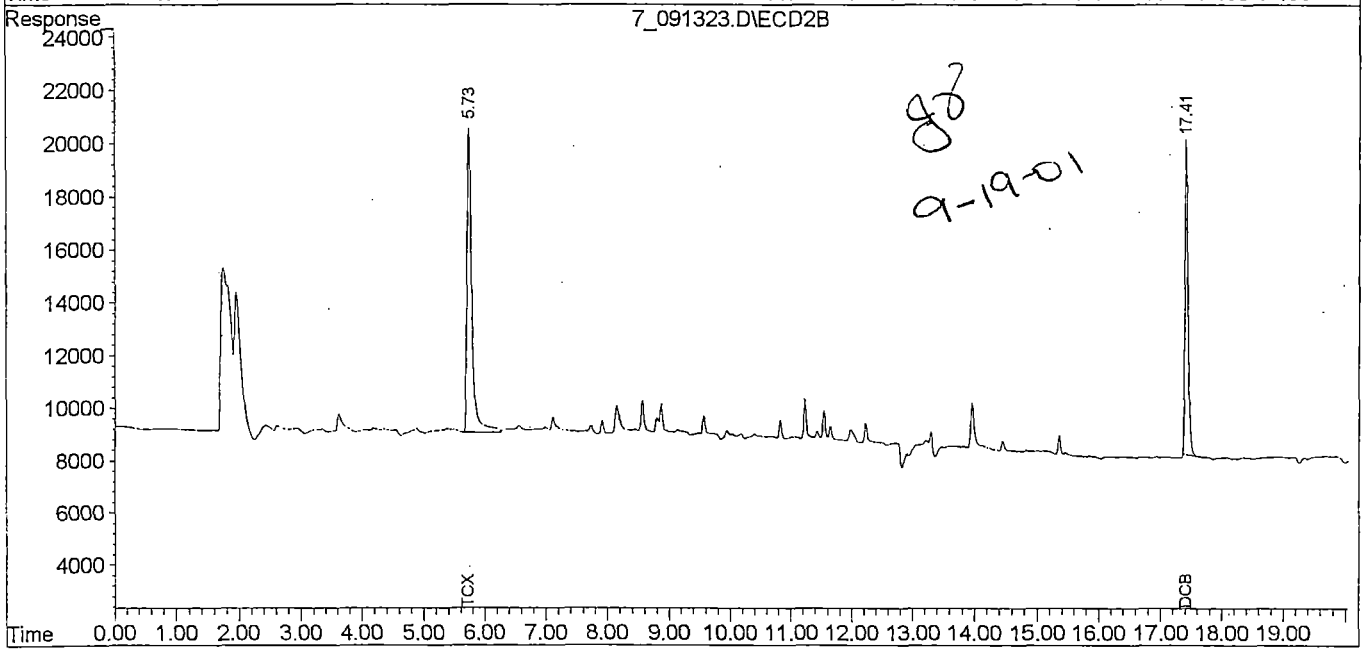
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091323.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091323.D\ECD2B.CH
Acq On : 13 Sep 2001 18:31 Operator: SA
Sample : 47292.03 *E02N0 * Inst : HP_07
Misc : *EPA*30.3G/5.0ML*83 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 10:00 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





gb
9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091323.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091323.D\ECD2B.CH
Acq On : 13 Sep 2001 18:31 Operator: SA
Sample : 47292.03 *E02N0 * Inst : HP_07
Misc : *EPA*30.3G/5.0ML*83 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 10:00 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	491100	643860	23.5	24.1
	Spiked Amount 38.827			Recovery	=	60.52%	62.07%
22)	S DCB	16.89	17.41	381934	428550	35.1	34.5
	Spiked Amount 38.827			Recovery	=	90.40%	88.85%
	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.

E02N1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47292.04

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

% Moisture: 51 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: 09/13/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	67	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	67	U
53469-21-9	Aroclor-1242	~~24000~~	35000DJ~~EP~~
12672-29-6	Aroclor-1248	67	U
11097-69-1	Aroclor-1254	~~3800~~	6400DJ~~EP~~
11096-82-5	Aroclor-1260	~~1300~~	2100DJ~~EP~~
Surrogate amount spiked		13.48	

apply this results
TBS 10-9-01

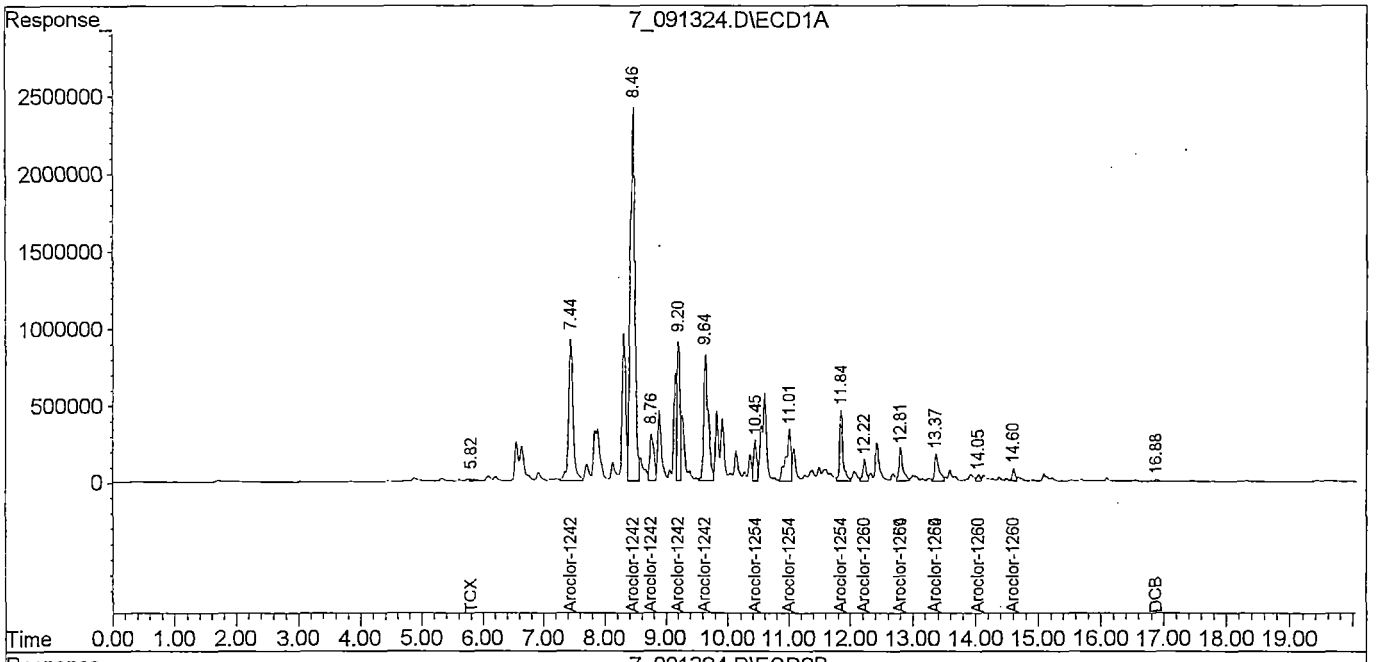
FORM I PCB

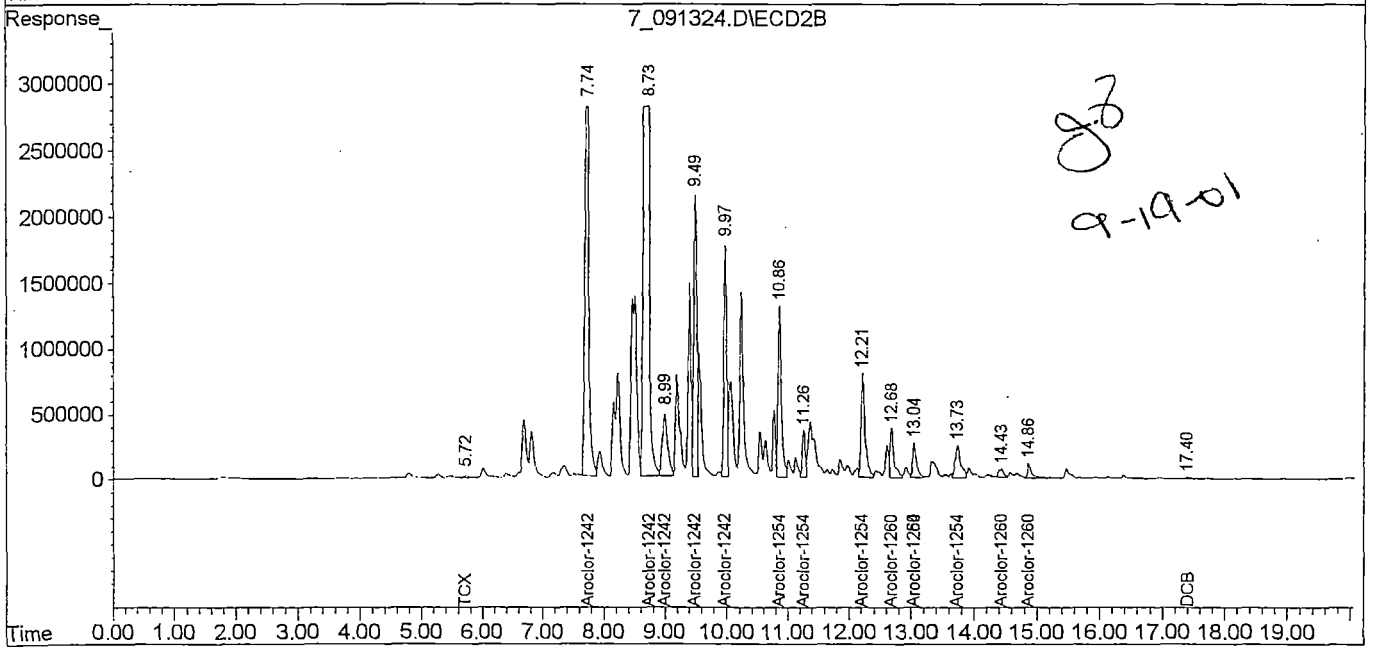
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091324.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091324.D\ECD2B.CH
Acq On : 13 Sep 2001 18:55 Operator: SA
Sample : 47292.04 *E02N1 * Inst : HP_07
Misc : *EPA*30.3G/5.0ML*51 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 10:12 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





9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091324.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091324.D\ECD2B.CH
Acq On : 13 Sep 2001 18:55 Operator: SA
Sample : 47292.04 *E02N1 * Inst : HP_07
Misc : *EPA*30.3G/5.0ML*51 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 10:12 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

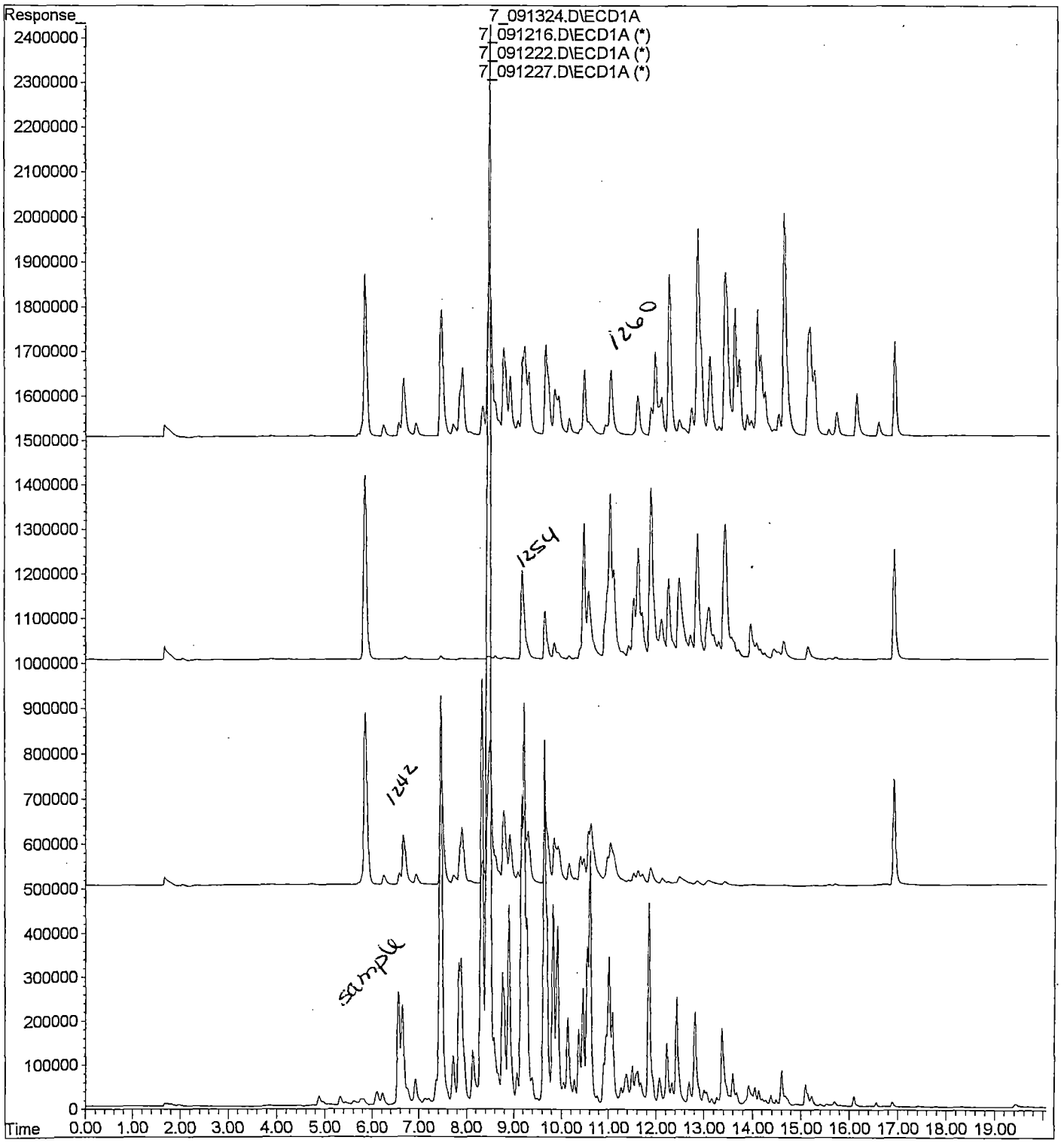
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.82	5.72	617471	563838	10.2	7.317 #
	Spiked Amount 13.471			Recovery	=	75.72%	54.32%
22)	S DCB	16.88	17.40	372526	471096	11.9m	13.2m
	Spiked Amount 13.471			Recovery	=	88.34%	97.99%
	Target Compounds:						
7)	L4 Aroclor-1242	7.44	7.73	47038395	132.9E6	18274.1 E	38636.4 E#
8)	L4 Aroclor-1242 {2}	8.46	8.72	124.0E6	213.2E6	40269.2 E	63549.4 E#
9)	L4 Aroclor-1242 {3}	8.76	8.99	15231162	29624200	9276.9 E	11991.2 E#
10)	L4 Aroclor-1242 {4}	9.20	9.49	32541827	71803755	27254.4 E	47654.5mE#
11)	L4 Aroclor-1242 {5}	9.64	9.97	40130361	55424008	22369.3 E	39655.7 E#
	Sum Aroclor-1242			259.0E6	502.9E6	117443.9	201487.2
	Average Aroclor-1242					23488.777	40297.431
12)	L6 Aroclor-1254	10.45	10.86	9754888	51165679	4048.1 E	12866.6 E#
13)	L6 Aroclor-1254 {2}	11.01	11.26	19703799	13173802	5057.6 E	4115.1 E
14)	L6 Aroclor-1254 {3}	11.84	12.21	17710474	33720681	4468.2 E	5387.6 E
15)	L6 Aroclor-1254 {4}	12.81	13.04	9491676	10616252	3140.1 E	3422.7 E
16)	L6 Aroclor-1254 {5}	13.37	13.73f	8561244	15039506	2136.4 E	2694.2 E#
	Sum Aroclor-1254			65222081	123.7E6	18850.4	28486.2
	Average Aroclor-1254					3770.073	5697.237
17)	L7 Aroclor-1260	12.22	12.68f	5533769	17173182	1620.3 E	3424.7 E#
18)	L7 Aroclor-1260 {2}	12.81	13.04f	9491676	10616252	1682.9 E	2233.4 E#
19)	L7 Aroclor-1260 {3}	13.37f	0.00	8561244	0	1965.0 E	N.D. #
20)	L7 Aroclor-1260 {4}	14.05	14.43f	1462649	4054531	752.1	1503.0 E#
21)	L7 Aroclor-1260 {5}	14.60	14.86f	2623875	4970656	576.3	1057.3 #
	Sum Aroclor-1260			27673214	36814621	4443.1	5535.4
	Average Aroclor-1260					1319.324	2054.606

∞ 9.14.1

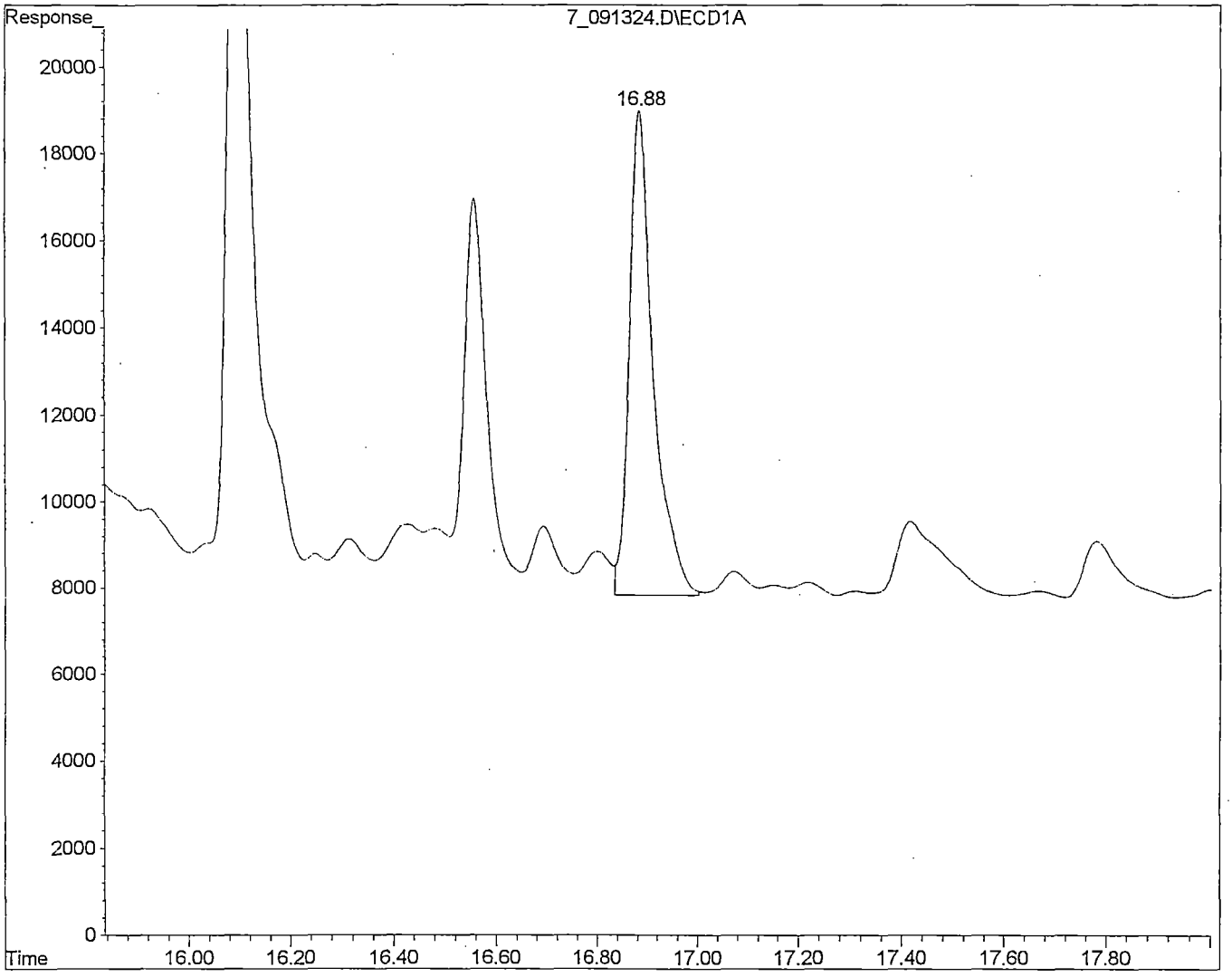
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

File : F:\HPCHEM\HP\7\DATA\09_13_01\7_091324.D
Operator : SA
Acquired : 13 Sep 2001 18:55 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47292.04 *E02N1 *
Misc Info : *EPA*30.3G/5.0ML*51
Vial Number: 24



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091324.D
Date Acquired: 13 Sep 2001 18:55
Inst: HP_07 Operator ID: SA
Name: 47292.04 *E02N1 *
Misc: *EPA*30.3G/5.0ML*51
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:12 2001 Quant Results File: XPCBI12.RES



cd 2.14.x

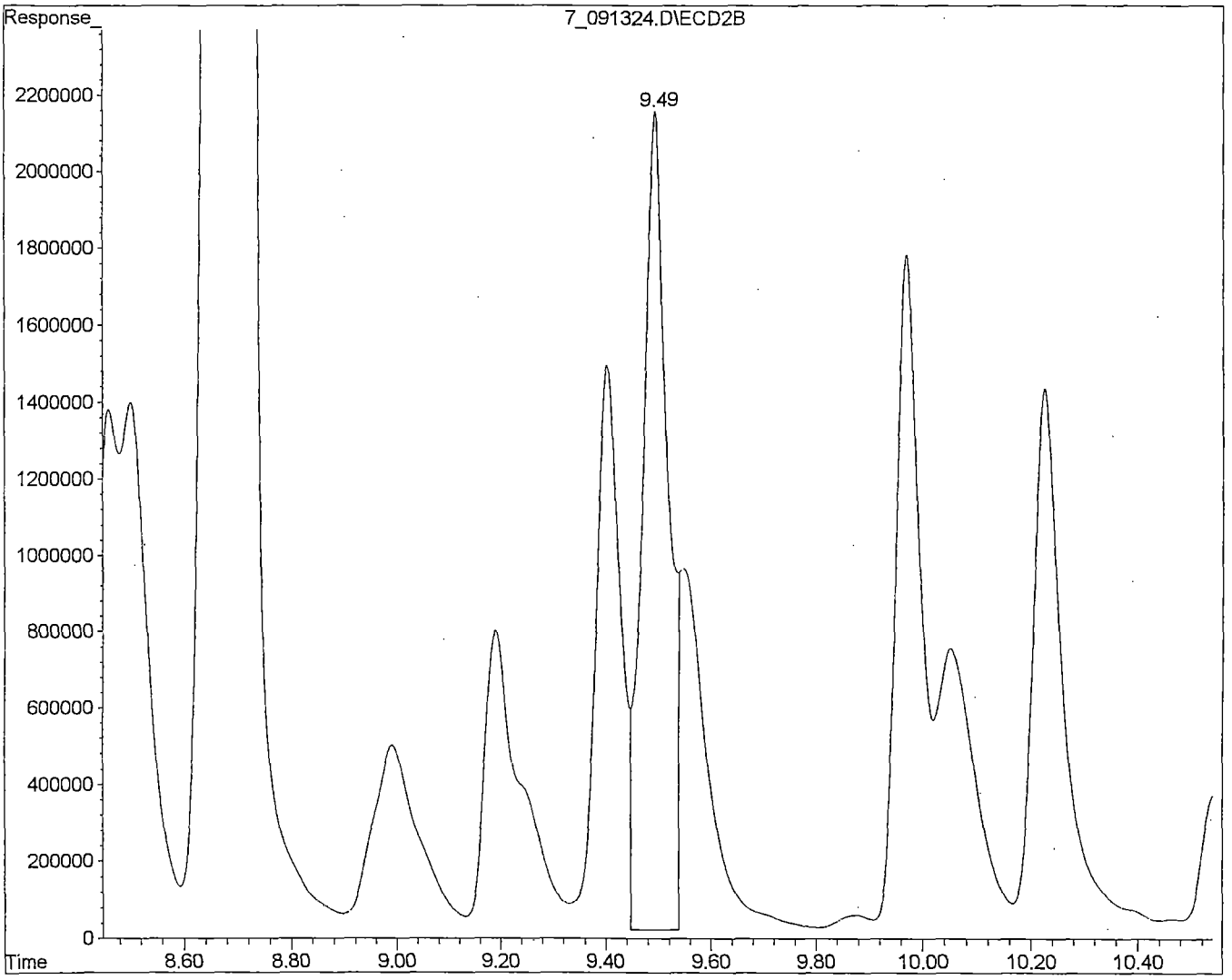
DCB 16.88min area: 372526 m

Integration Time Range: 16.83 - 17.00

F:\HPCHEM\HP\7\DATA\09_13_01\7_091324.D
Report generated: Fri Sep 14 10:35:08 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091324.D
Date Acquired: 13 Sep 2001 18:55
Inst: HP_07 Operator ID: SA
Name: 47292.04 *E02N1 *
Misc: *EPA*30.3G/5.0ML*51
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:12 2001 Quant Results File: XPCBI12.RES



A 9.14.9

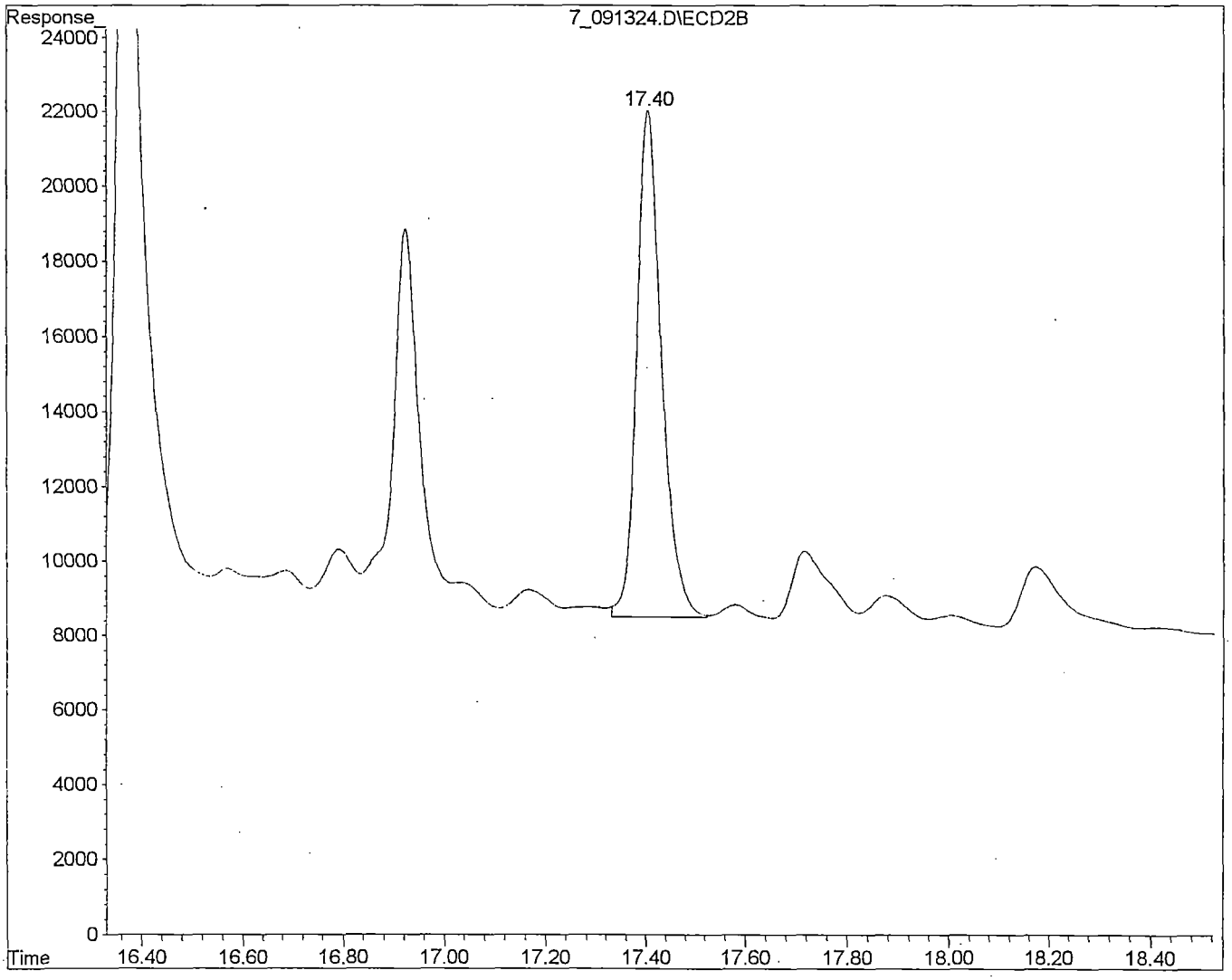
Aroclor-1242 {4} #2 9.49min area: 71803755 m

Integration Time Range: 9.45 - 9.54

F:\HPCHEM\HP\7\DATA\09_13_01\7_091324.D
Report generated: Fri Sep 14 10:35:09 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091324.D
Date Acquired: 13 Sep 2001 18:55
Inst: HP_07 Operator ID: SA
Name: 47292.04 *E02N1 *
Misc: *EPA*30.3G/5.0ML*51
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:12 2001 Quant Results File: XPCBI12.RES



CA 9-14-01

DCB #2 17.40min area: 471096 m

Integration Time Range: 17.33 - 17.52

F:\HPCHEM\HP\7\DATA\09_13_01\7_091324.D
Report generated: Fri Sep 14 10:35:09 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02N1DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47292.04DL

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

% Moisture: 51 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: 100.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	6700	U
11104-28-2	Aroclor-1221	6700	U
11141-16-5	Aroclor-1232	6700	U
53469-21-9	Aroclor-1242	35000	D
12672-29-6	Aroclor-1248	6700	U
11097-69-1	Aroclor-1254	6400	DJ
11096-82-5	Aroclor-1260	2100	DJ
	Surrogate amount spiked	13.48	

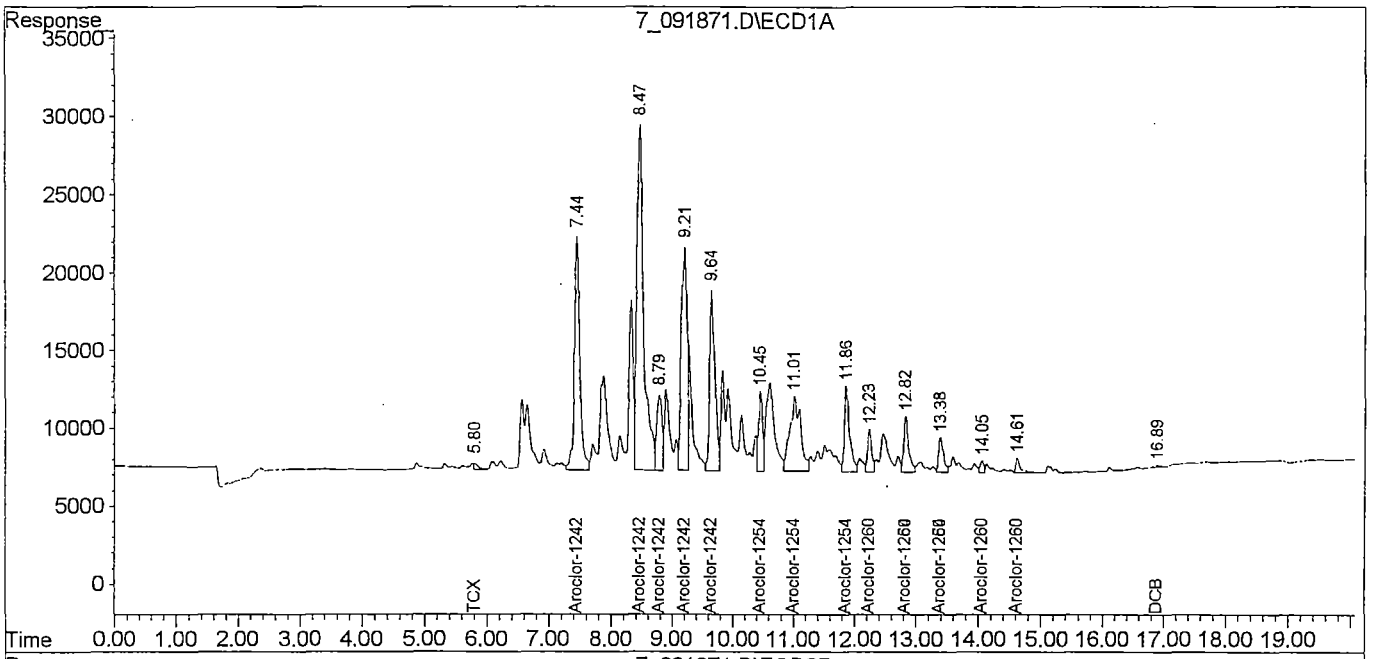
FORM I PCB

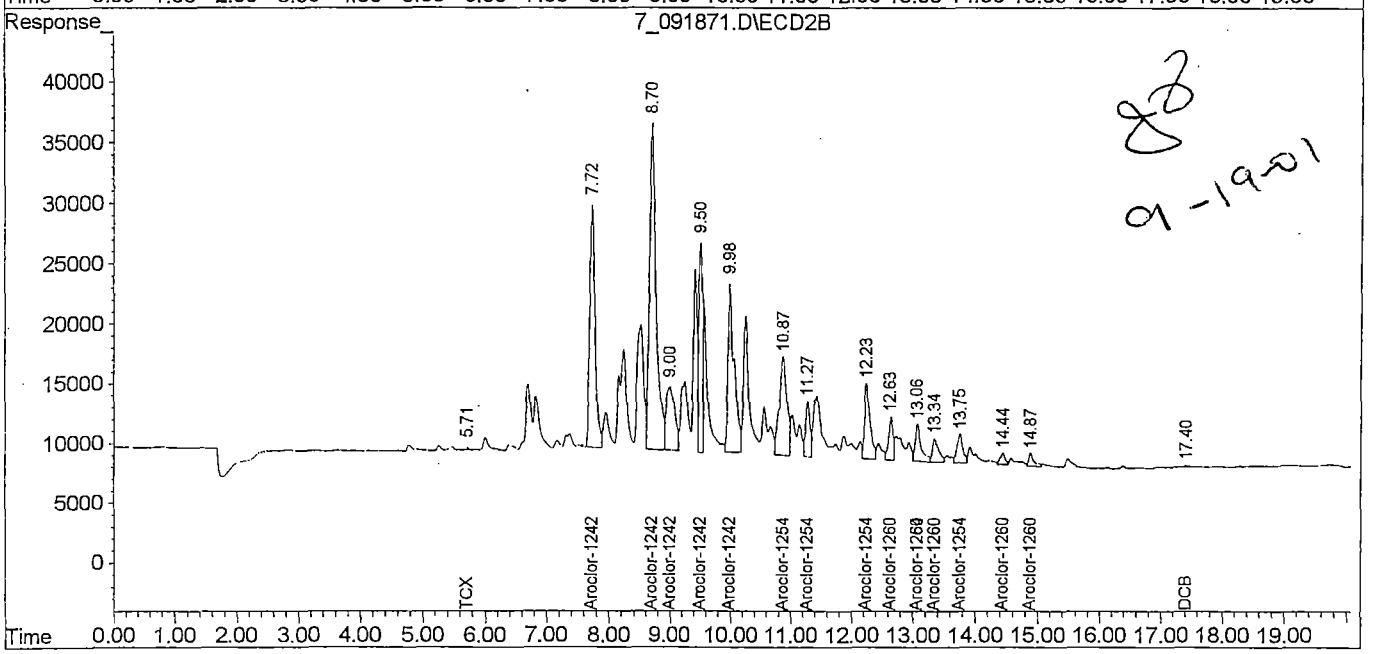
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091871.D\ECD1A.CH Vial: 100
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091871.D\ECD2B.CH
Acq On : 19 Sep 2001 11:56 Operator: SA
Sample : 47292.04DL *E02N1DL * Inst : HP_07
Misc : *EPA*30.3G/5.0ML*51 Dilution: 100.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 13:26 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_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





9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091871.D\ECD1A.CH Vial: 100
Signal #2 : F:\HPCHEM\HP\7\DATA\09_19_01\7_091871.D\ECD2B.CH
Acq On : 19 Sep 2001 11:56 Operator: SA
Sample : 47292.04DL *E02N1DL * Inst : HP_07
Misc : *EPA*30.3G/5.0ML*51 Dilution: 100.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 19 13:26 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_19_01\
Last Update : Wed Sep 19 08:11:05 2001
Response via : Initial Calibration

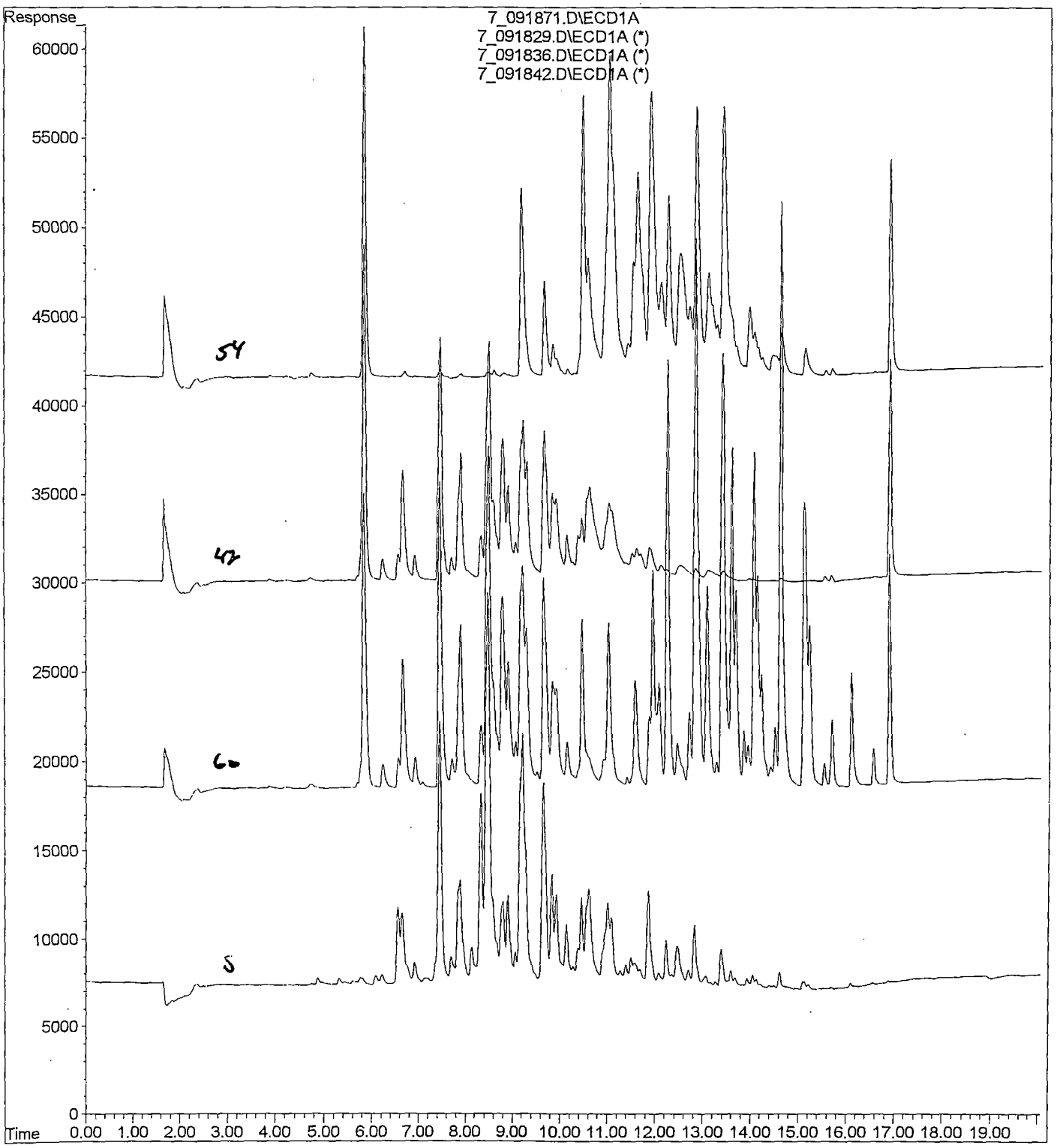
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.80f	5.71	18038	6901	28.2	7.062	#
	Spiked Amount 13.471			Recovery	=	209.34%	52.42%	
22)	S DCB	16.89	17.40	3105	4957	9.011	11.3	#
	Spiked Amount 13.471			Recovery	=	66.89%	83.89%	
	Target Compounds:							
7)	L4 Aroclor-1242	7.44	7.72	891934	1210914	32570.5	31264.0	
8)	L4 Aroclor-1242 {2}	8.47	8.70	1763104	2082281	49984.9	53935.0	
9)	L4 Aroclor-1242 {3}	8.79	9.00	296856	536829	16830.3	18083.0	
10)	L4 Aroclor-1242 {4}	9.21	9.50	923064	721325	43319.0m	39834.9m	
11)	L4 Aroclor-1242 {5}	9.64	9.98	702312	991654	35493.6	33084.0m	
	Sum Aroclor-1242			4577269	5543003	178198.4	176200.8	
	Average Aroclor-1242					35639.671	35240.168	
12)	L6 Aroclor-1254	10.46	10.87	231165	734194	8558.5	15207.5	#
13)	L6 Aroclor-1254 {2}	11.01	11.27	589224	230799	8230.6m	5612.0	#
14)	L6 Aroclor-1254 {3}	11.86	12.24f	322678	399186	6976.5	5211.2	#
15)	L6 Aroclor-1254 {4}	12.82	13.06	200895	205979	5522.4	5178.1	
16)	L6 Aroclor-1254 {5}	13.38	13.75f	125858	157124	2518.8	2183.8	
	Sum Aroclor-1254			1469819	1727282	31806.8	33392.7	
	Average Aroclor-1254					6361.359	6678.547	
17)	L7 Aroclor-1260	12.23	12.63	128016	174887	3259.4	2784.1	
18)	L7 Aroclor-1260 {2}	12.82	13.06	200895	205979	3071.7	3298.3	
19)	L7 Aroclor-1260 {3}	13.38	13.34f	125858	133935	2409.2	2396.1	
20)	L7 Aroclor-1260 {4}	14.06	14.44	31487	52544	1304.8	1396.8	
21)	L7 Aroclor-1260 {5}	14.61	14.88	53644	57174	985.0	868.7	
	Sum Aroclor-1260			539899	624519	742922.9	723650.2	
	Average Aroclor-1260					2206.035	2148.807	

CO 9.19.01

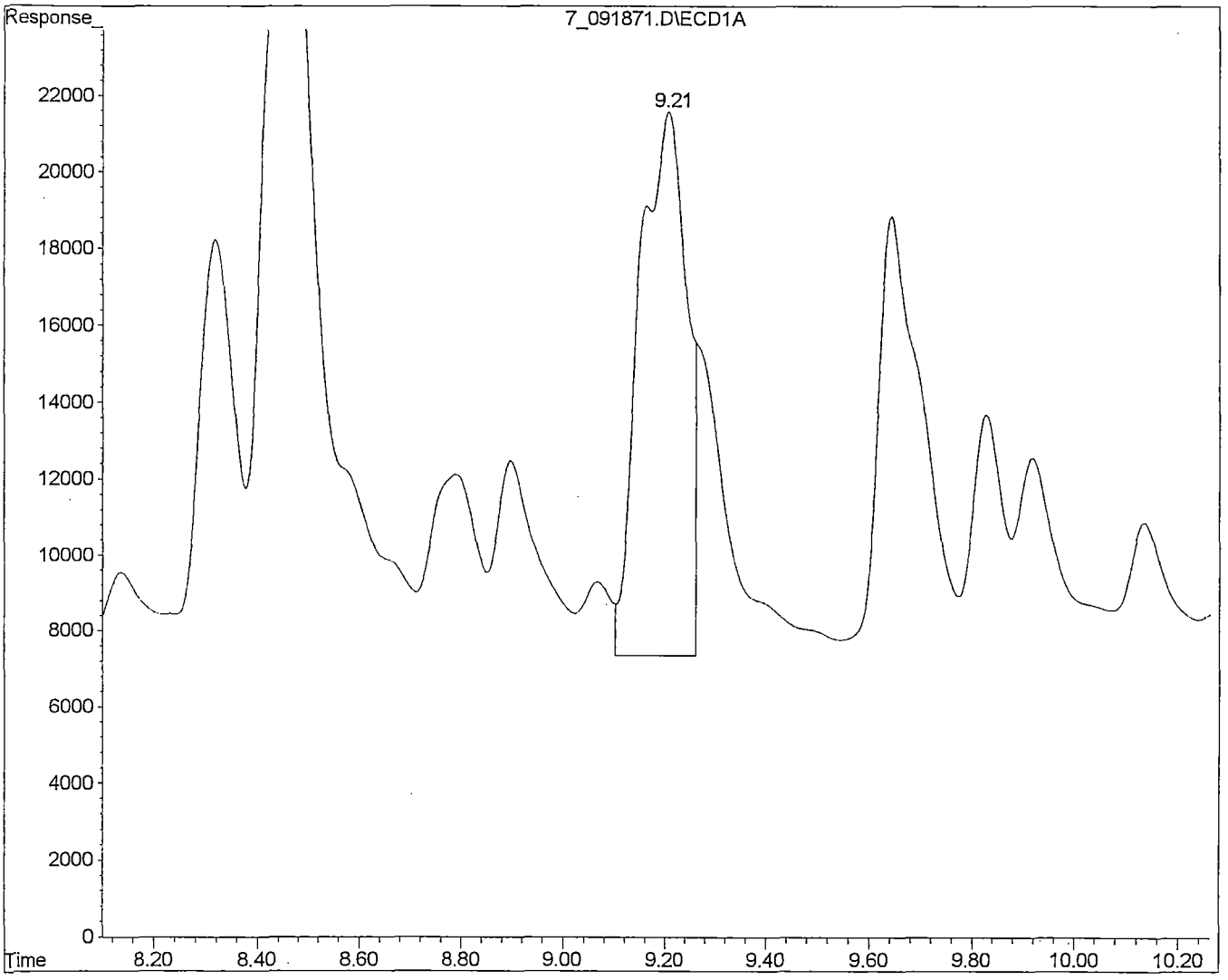
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

File : F:\HPCHEM\HP\7\DATA\09_19_01\7_091871.D
Operator : SA
Acquired : 19 Sep 2001 11:56 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47292.04DL *E02N1DL *
Misc Info : *EPA*30.3G/5.0ML*51
Vial Number: 100



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091871.D
Date Acquired: 19 Sep 2001 11:56
Inst: HP_07 Operator ID: SA
Name: 47292.04DL *E02N1DL *
Misc: *EPA*30.3G/5.0ML*51
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 13:26 2001 Quant Results File: XPCBI18.RES



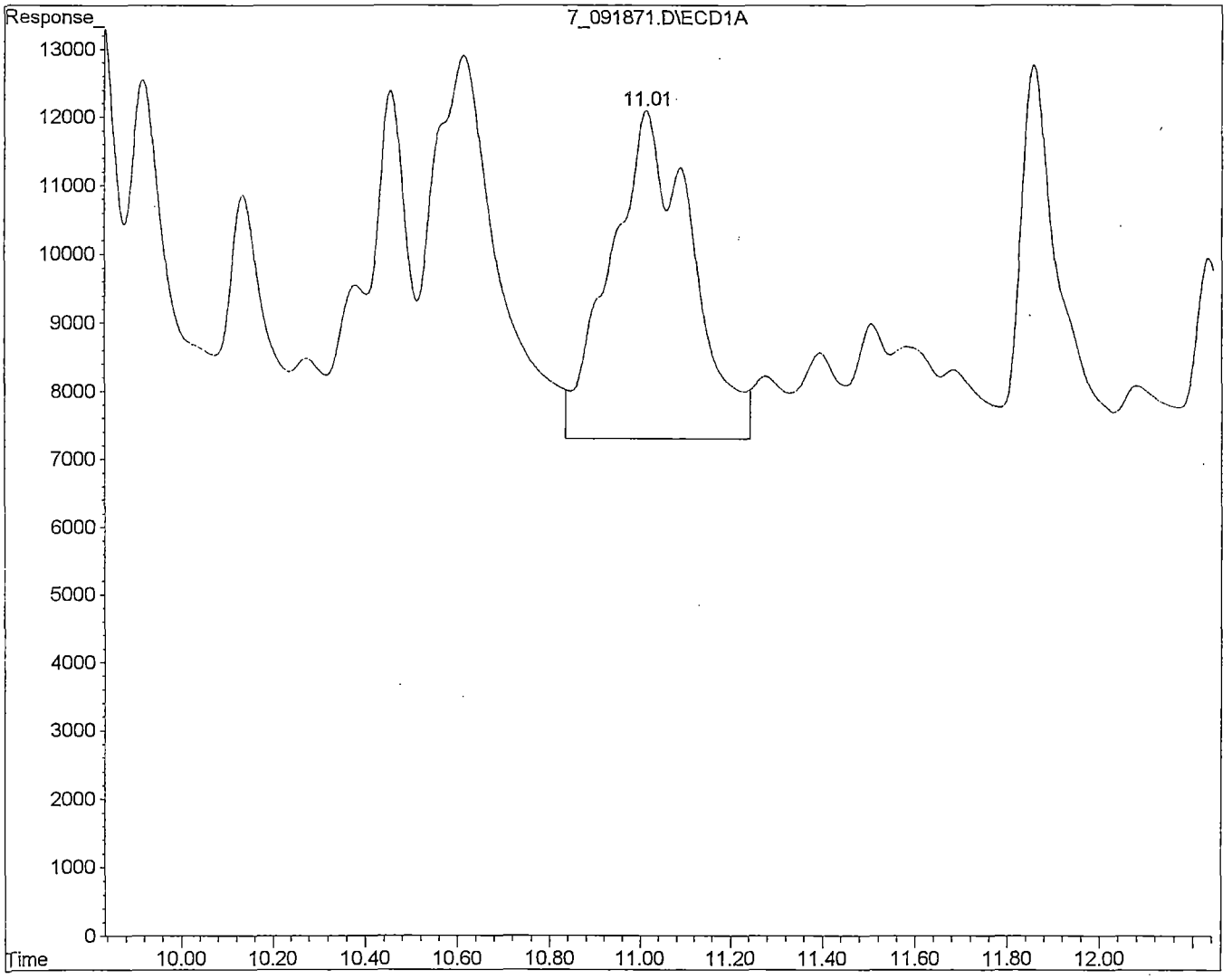
Aroclor-1242 {4} 9.21min area: 923064 m

Integration Time Range: 9.10 - 9.26

F:\HPCHEM\HP\7\DATA\09_19_01\7_091871.D
Report generated: Wed Sep 19 13:38:05 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091871.D
Date Acquired: 19 Sep 2001 11:56
Inst: HP_07 Operator ID: SA
Name: 47292.04DL *E02N1DL *
Misc: *EPA*30.3G/5.0ML*51
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 13:26 2001 Quant Results File: XPCBI18.RES



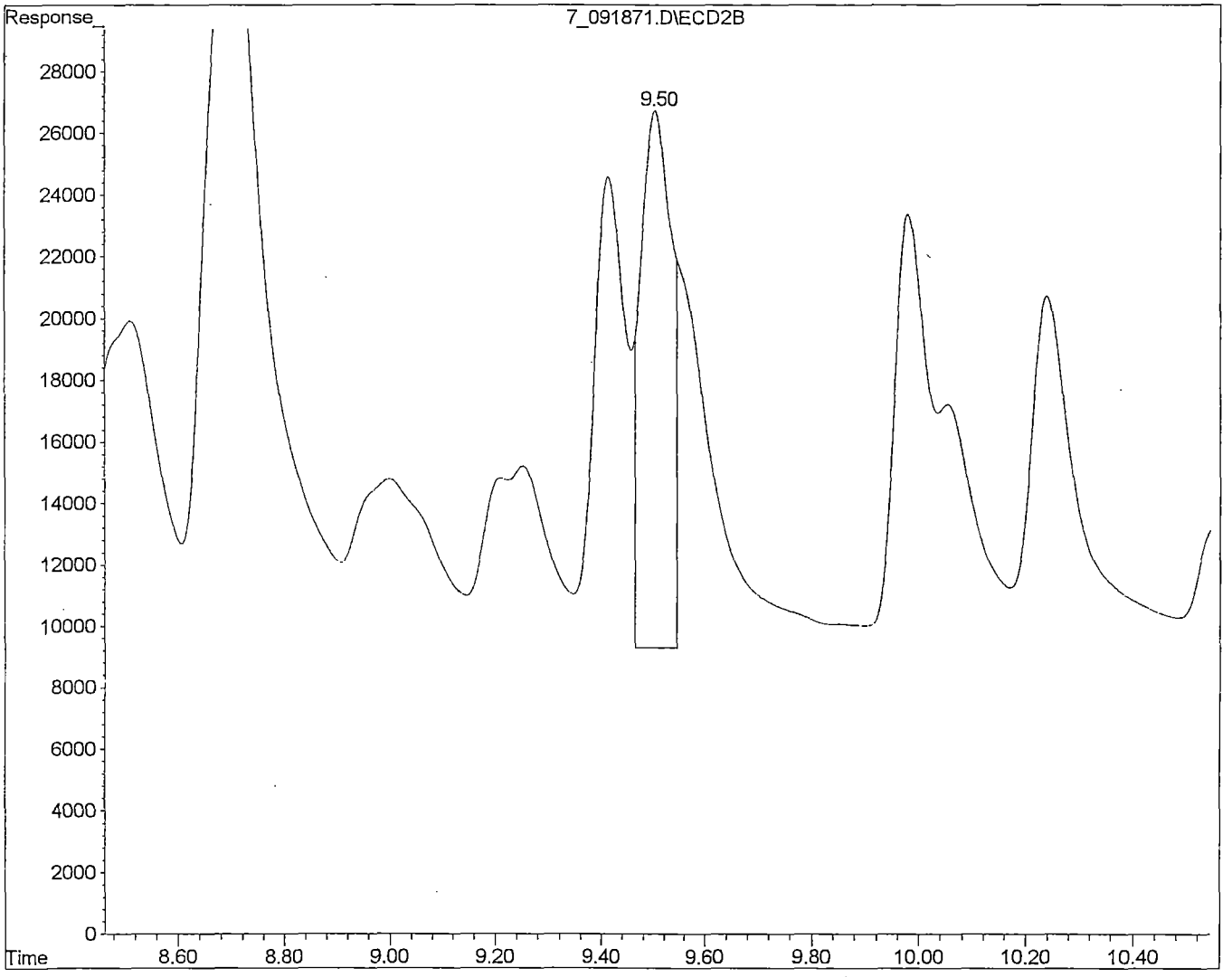
Aroclor-1254 {2} 11.01min area: 589224 m

Integration Time Range: 10.83 - 11.24

F:\HPCHEM\HP\7\DATA\09_19_01\7_091871.D
Report generated: Wed Sep 19 13:38:06 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091871.D
Date Acquired: 19 Sep 2001 11:56
Inst: HP_07 Operator ID: SA
Name: 47292.04DL *E02N1DL *
Misc: *EPA*30.3G/5.0ML*51
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 13:26 2001 Quant Results File: XPCBI18.RES



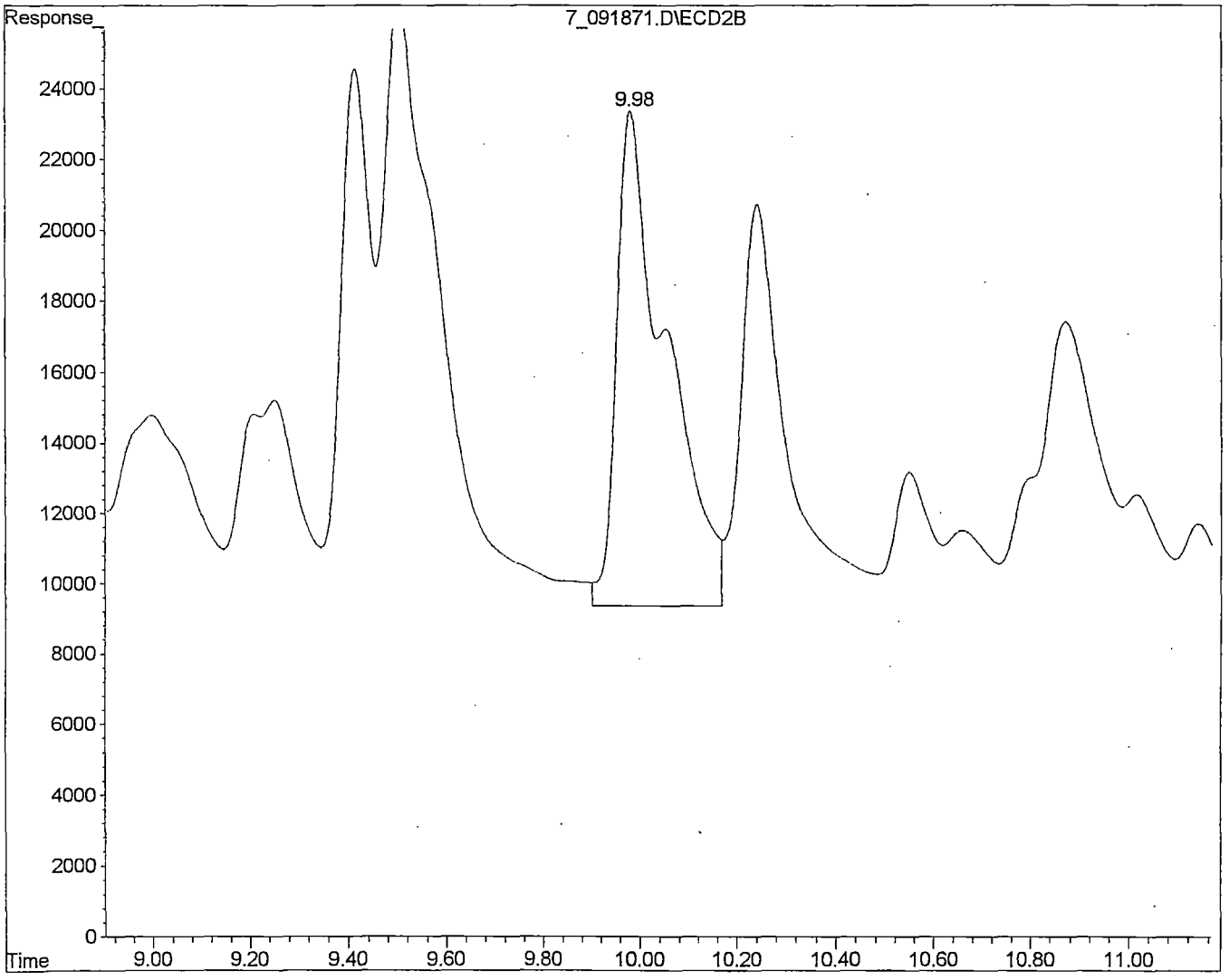
Aroclor-1242 {4} #2 9.50min area: 721325 m

Integration Time Range: 9.46 - 9.54

F:\HPCHEM\HP\7\DATA\09_19_01\7_091871.D
Report generated: Wed Sep 19 13:38:06 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_19_01\7_091871.D
Date Acquired: 19 Sep 2001 11:56
Inst: HP_07 Operator ID: SA
Name: 47292.04DL *E02N1DL *
Misc: *EPA*30.3G/5.0ML*51
Method: F:\HPCHEM\HP\7\DATA\09_19_01\XPCBI18.M
Title: PCB/TOXAPHENE
Quant Time: Sep 19 13:26 2001 Quant Results File: XPCBI18.RES



Aroclor-1242 {5} #2 9.98min area: 991654 m

Integration Time Range: 9.90 - 10.17

F:\HPCHEM\HP\7\DATA\09_19_01\7_091871.D
Report generated: Wed Sep 19 13:38:07 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02N2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47292.05

Sample wt/vol: 30.4 (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: 09/13/01

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	380	
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	120	
11096-82-5	Aroclor-1260	43	
Surrogate amount spiked		7.74	

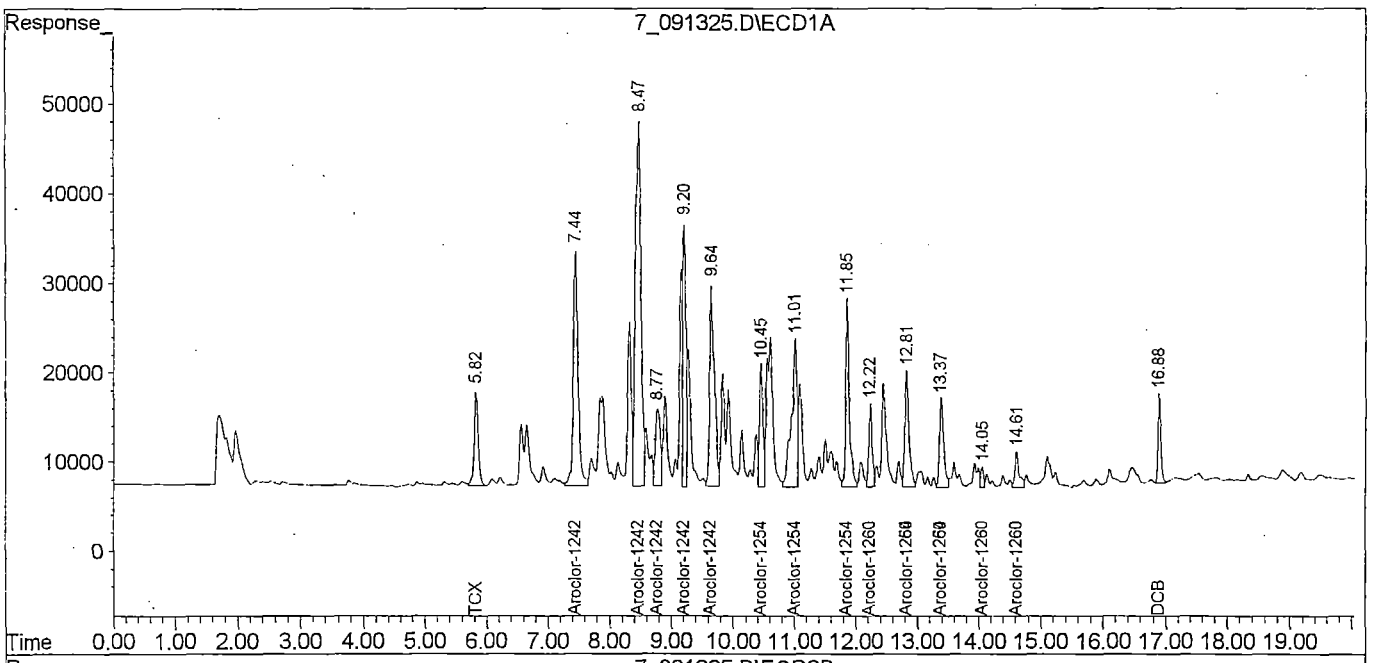
FORM I PCB

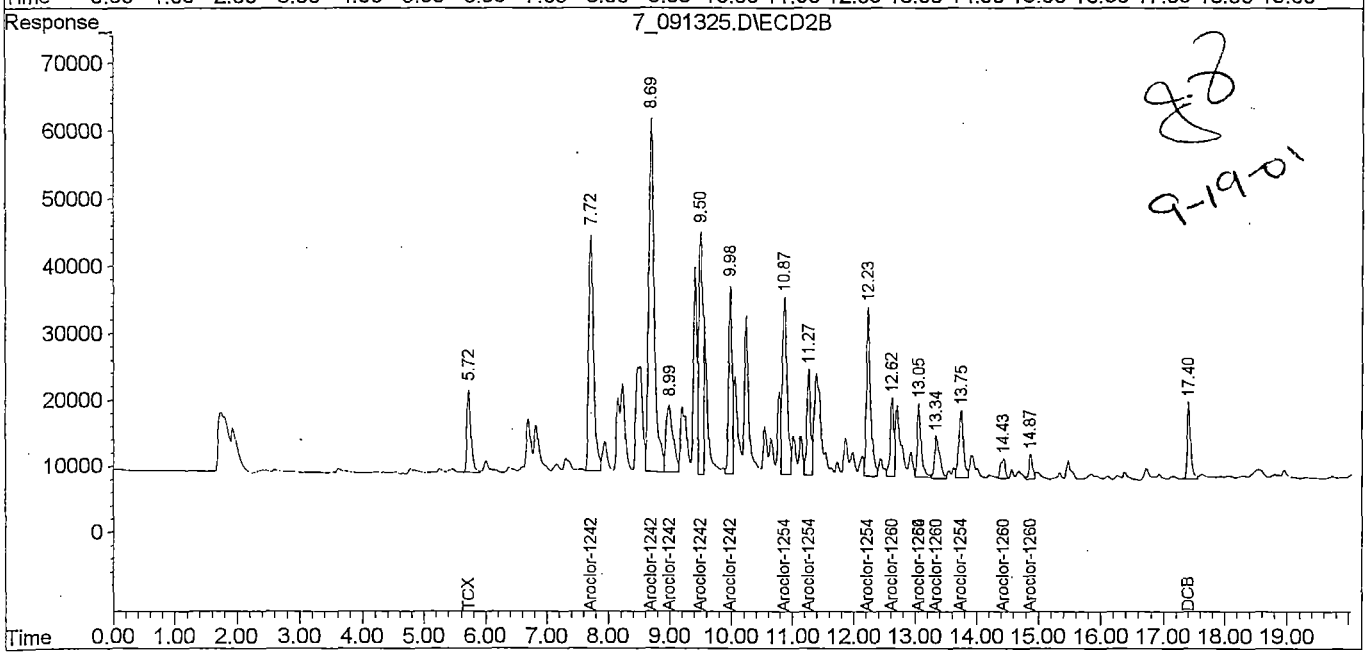
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091325.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091325.D\ECD2B.CH
Acq On : 13 Sep 2001 19:19 Operator: SA
Sample : 47292.05 *E02N2 * Inst : HP_07
Misc : *EPA*30.4G/5.0ML*15 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 10:53 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





9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091325.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091325.D\ECD2B.CH
Acq On : 13 Sep 2001 19:19 Operator: SA
Sample : 47292.05 *E02N2 * Inst : HP_07
Misc : *EPA*30.4G/5.0ML*15 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 10:53 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

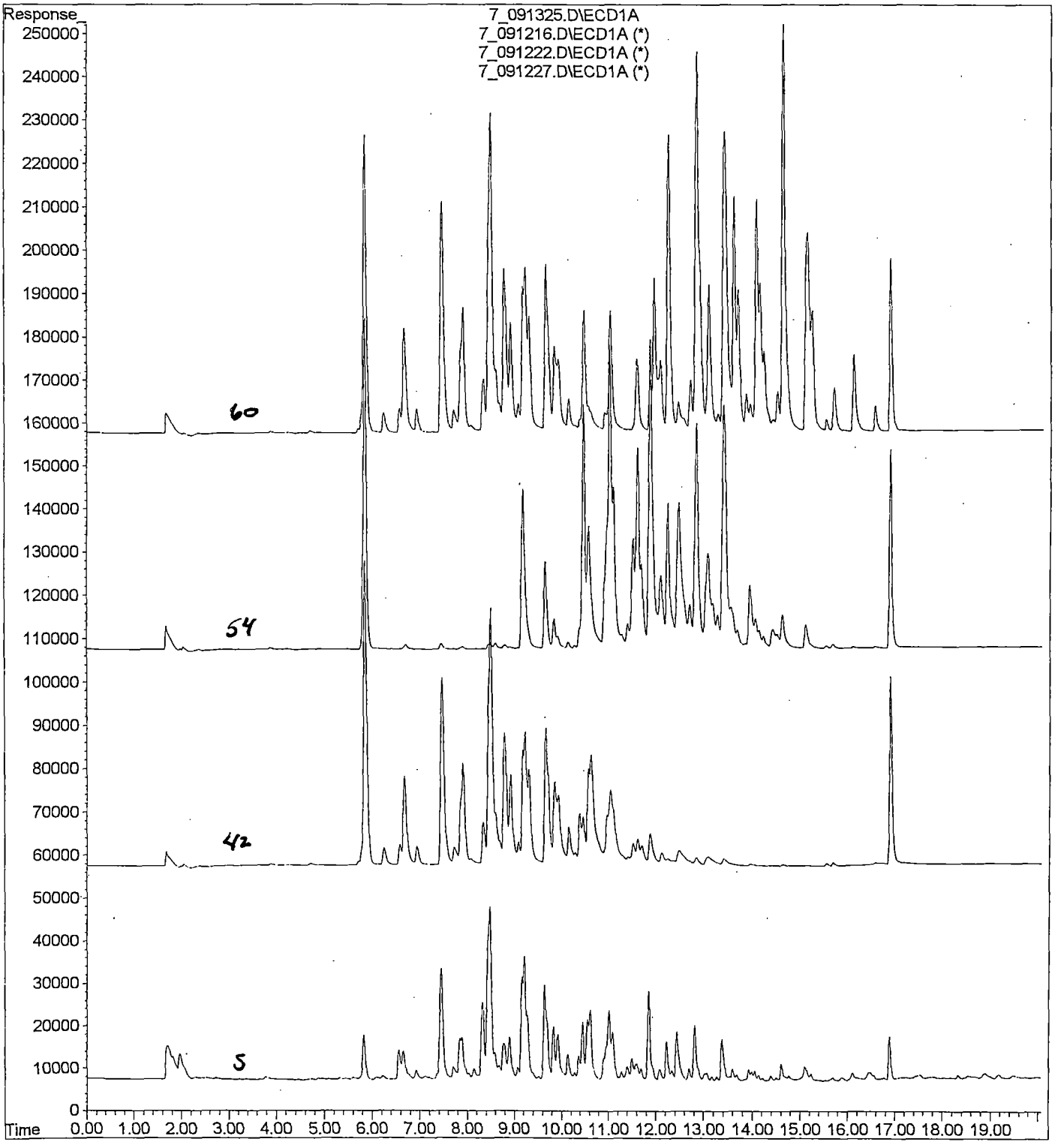
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.72	471038	579271	4.485	4.319	
	Spiked Amount 7.740			Recovery	=	57.95%	55.80%	
22)	S DCB	16.88	17.40	320051	447384	5.856m	7.179m	
	Spiked Amount 7.740			Recovery	=	75.66%	92.75%	
	Target Compounds:							
7)	L4 Aroclor-1242	7.44	7.72	1429952	2004890	319.2	334.9	
8)	L4 Aroclor-1242 {2}	8.46	8.69	2539658	3376187	473.8	578.3	
9)	L4 Aroclor-1242 {3}	8.77	8.99	494000	802826	172.9	186.7	
10)	L4 Aroclor-1242 {4}	9.20	9.50	1127491	1532922	542.6m	584.6m	
11)	L4 Aroclor-1242 {5}	9.64	9.98	1217770	1085559	390.0	446.3	
	Sum Aroclor-1242			6808872	8802385	1898.5	2130.8	
	Average Aroclor-1242					379.692	426.158	
12)	L6 Aroclor-1254	10.45	10.87	525534	1471500	125.3	212.6	#
13)	L6 Aroclor-1254 {2}	11.01	11.27	1051019	686377	155.0	123.2	
14)	L6 Aroclor-1254 {3}	11.85	12.23	892168	1185337	129.3	108.8	
15)	L6 Aroclor-1254 {4}	12.81	13.06	611361	498568	116.2	92.4	
16)	L6 Aroclor-1254 {5}	13.38	13.74	459819	536261	65.9	55.2	
	Sum Aroclor-1254			3539901	4378043	591.8	592.2	
	Average Aroclor-1254					118.356	118.435	
17)	L7 Aroclor-1260	12.23	12.62f	362657	465776	61.0	53.4	
18)	L7 Aroclor-1260 {2}	12.81	13.06f	611361	498568	62.3	60.3	
19)	L7 Aroclor-1260 {3}	13.38f	13.34f	459819	382563	60.6	51.2m	
20)	L7 Aroclor-1260 {4}	14.05	14.43f	77870	158178	23.0	33.7	#
21)	L7 Aroclor-1260 {5}	14.61	14.87f	184697	148646	23.3	18.2	
	Sum Aroclor-1260			1696405	1653732	89.1	83.8	
	Average Aroclor-1260					46.050	43.330	

cd 9-14-9

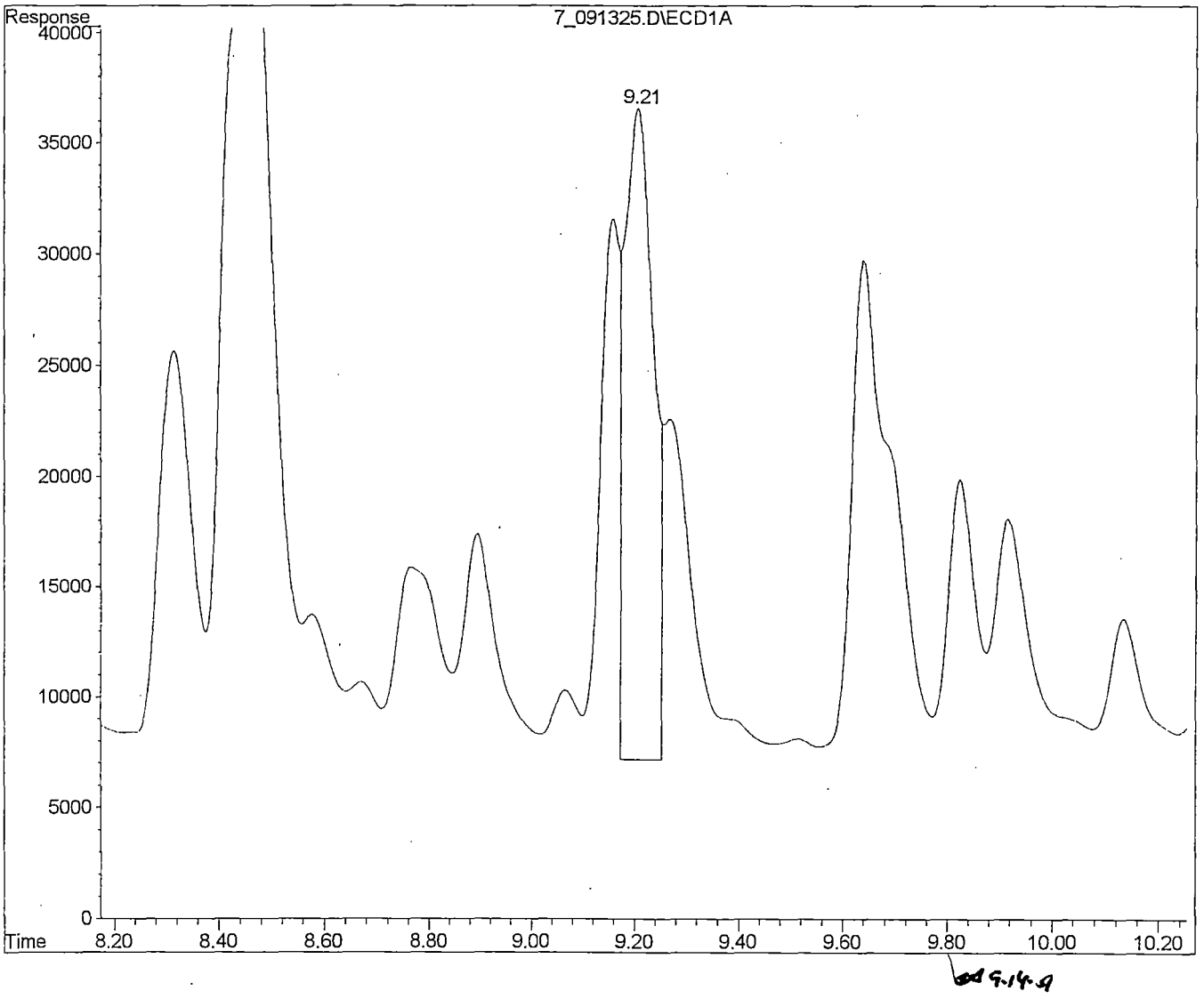
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

File : F:\HPCHEM\HP\7\DATA\09_13_01\7_091325.D
Operator : SA
Acquired : 13 Sep 2001 19:19 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47292.05 *E02N2 *
Misc Info : *EPA*30.4G/5.0ML*15
Vial Number: 25



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091325.D
Date Acquired: 13 Sep 2001 19:19
Inst: HP_07 Operator ID: SA
Name: 47292.05 *E02N2 *
Misc: *EPA*30.4G/5.0ML*15
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:53 2001 Quant Results File: XPCBI12.RES



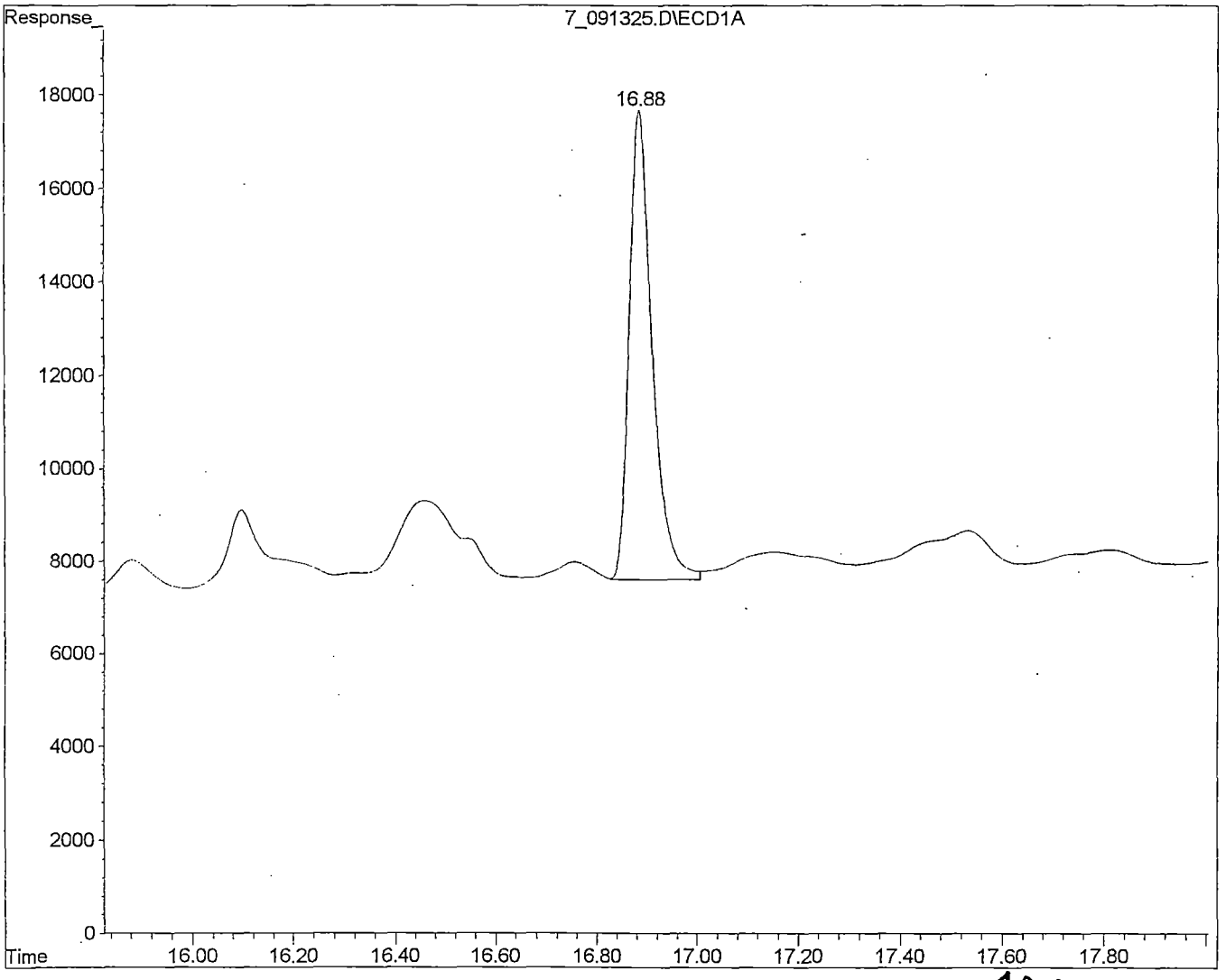
Aroclor-1242 {4} 9.21min area: 1127491 m

Integration Time Range: 9.17 - 9.25

F:\HPCHEM\HP\7\DATA\09_13_01\7_091325.D
Report generated: Fri Sep 14 10:54:59 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091325.D
Date Acquired: 13 Sep 2001 19:19
Inst: HP_07 Operator ID: SA
Name: 47292.05 *E02N2 *
Misc: *EPA*30.4G/5.0ML*15
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:53 2001 Quant Results File: XPCBI12.RES



A 9.14.4

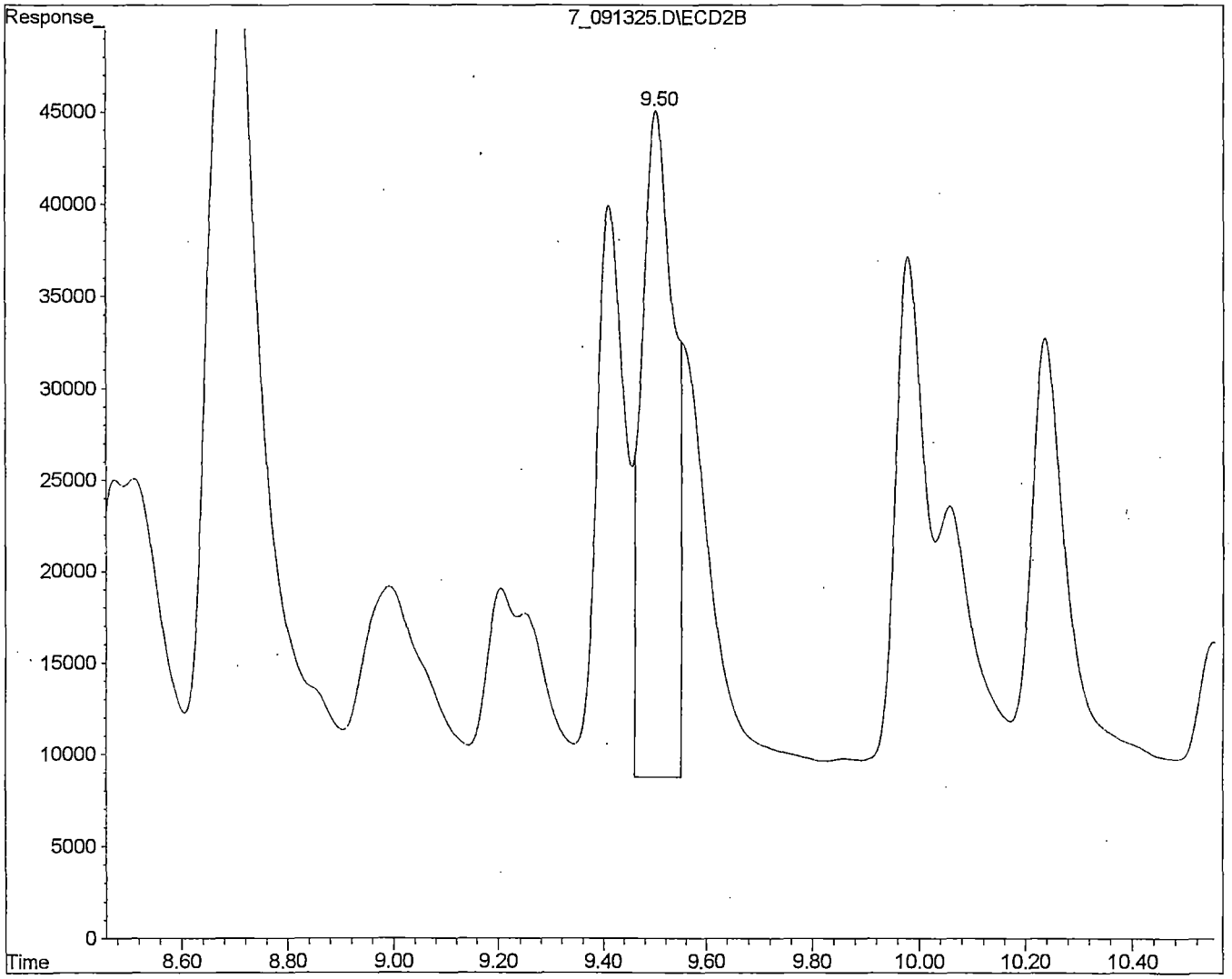
DCB 16.88min area: 320051 m

Integration Time Range: 16.83 - 17.01

F:\HPCHEM\HP\7\DATA\09_13_01\7_091325.D
Report generated: Fri Sep 14 10:55:00 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091325.D
Date Acquired: 13 Sep 2001 19:19
Inst: HP_07 Operator ID: SA
Name: 47292.05 *E02N2 *
Misc: *EPA*30.4G/5.0ML*15
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:53 2001 Quant Results File: XPCBI12.RES



cd 9.14.4

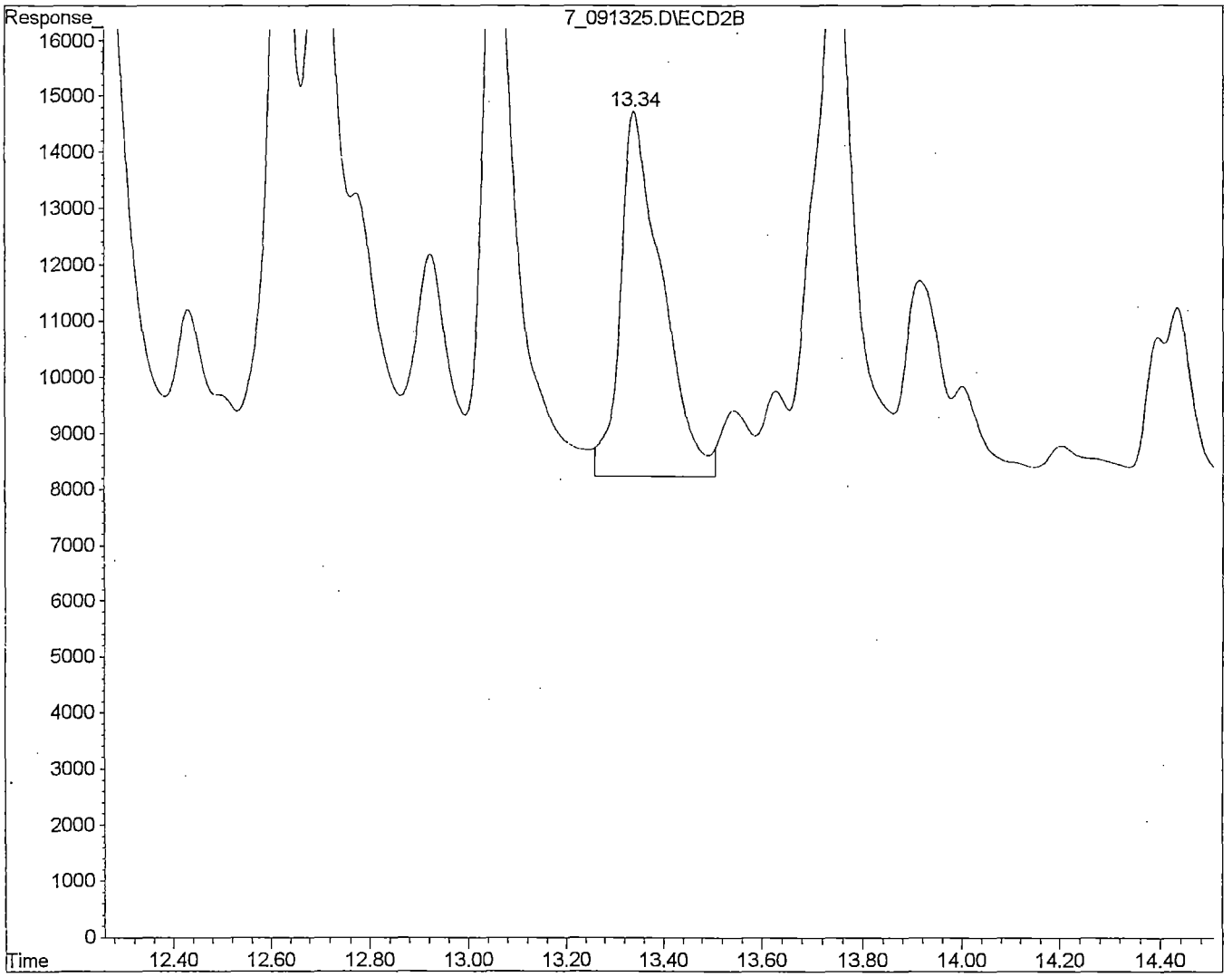
Aroclor-1242 {4} #2 9.50min area: 1532922 m

Integration Time Range: 9.46 - 9.55

F:\HPCHEM\HP\7\DATA\09_13_01\7_091325.D
Report generated: Fri Sep 14 10:55:00 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091325.D
Date Acquired: 13 Sep 2001 19:19
Inst: HP_07 Operator ID: SA
Name: 47292.05 *E02N2 *
Misc: *EPA*30.4G/5.0ML*15
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:53 2001 Quant Results File: XPCBI12.RES



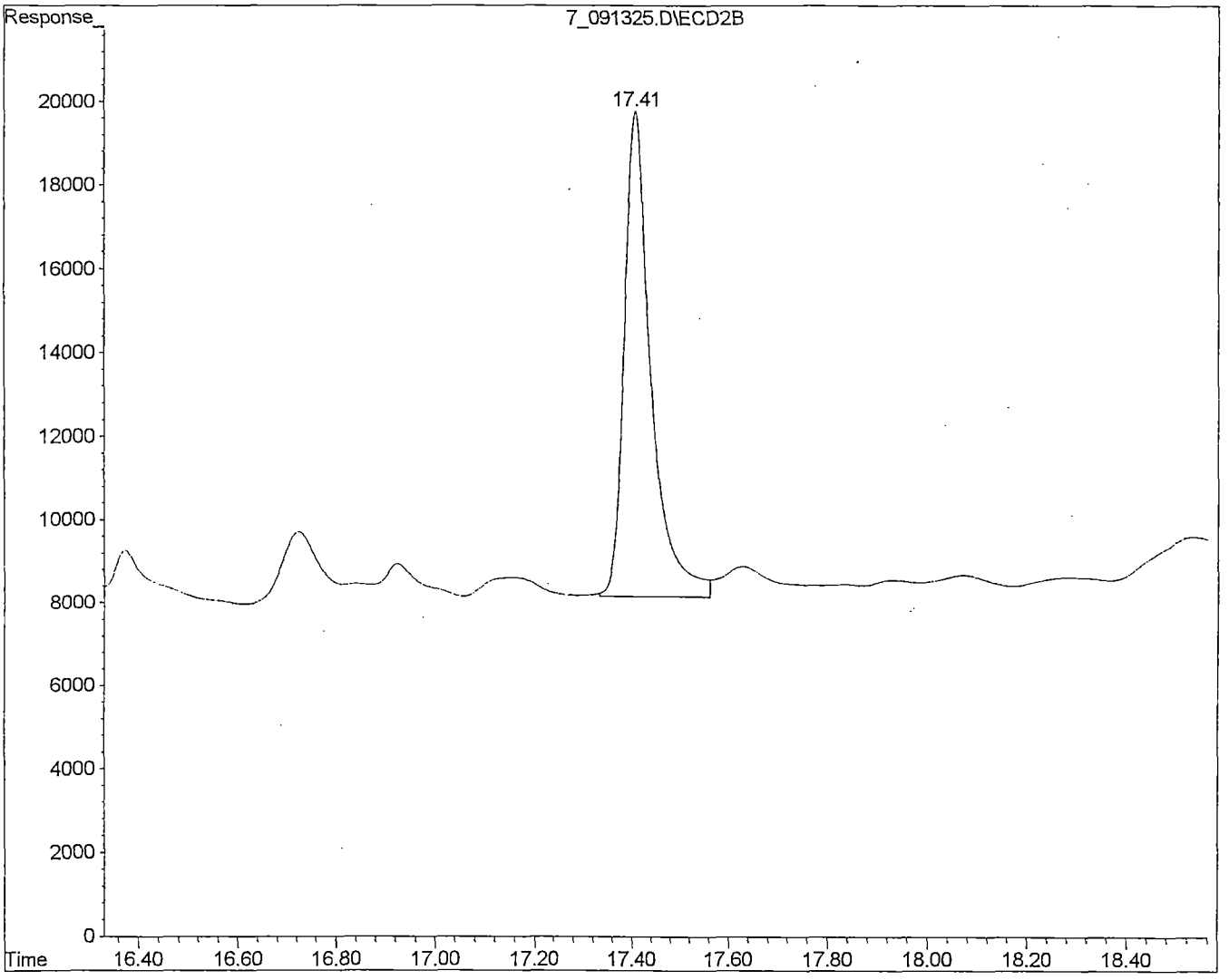
Aroclor-1260 {3} #2 13.34min area: 382563 m

Integration Time Range: 13.26 - 13.51

F:\HPCHEM\HP\7\DATA\09_13_01\7_091325.D
Report generated: Fri Sep 14 10:55:01 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091325.D
Date Acquired: 13 Sep 2001 19:19
Inst: HP_07 Operator ID: SA
Name: 47292.05 *E02N2 *
Misc: *EPA*30.4G/5.0ML*15
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:53 2001 Quant Results File: XPCBI12.RES



DCB #2 17.40min area: 447384 m

Integration Time Range: 17.33 - 17.56

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02N3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47292.06

Sample wt/vol: 30.4 (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: 09/13/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	26	J
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	12	J
11096-82-5	Aroclor-1260	6.6	J
Surrogate amount spiked		7.74	

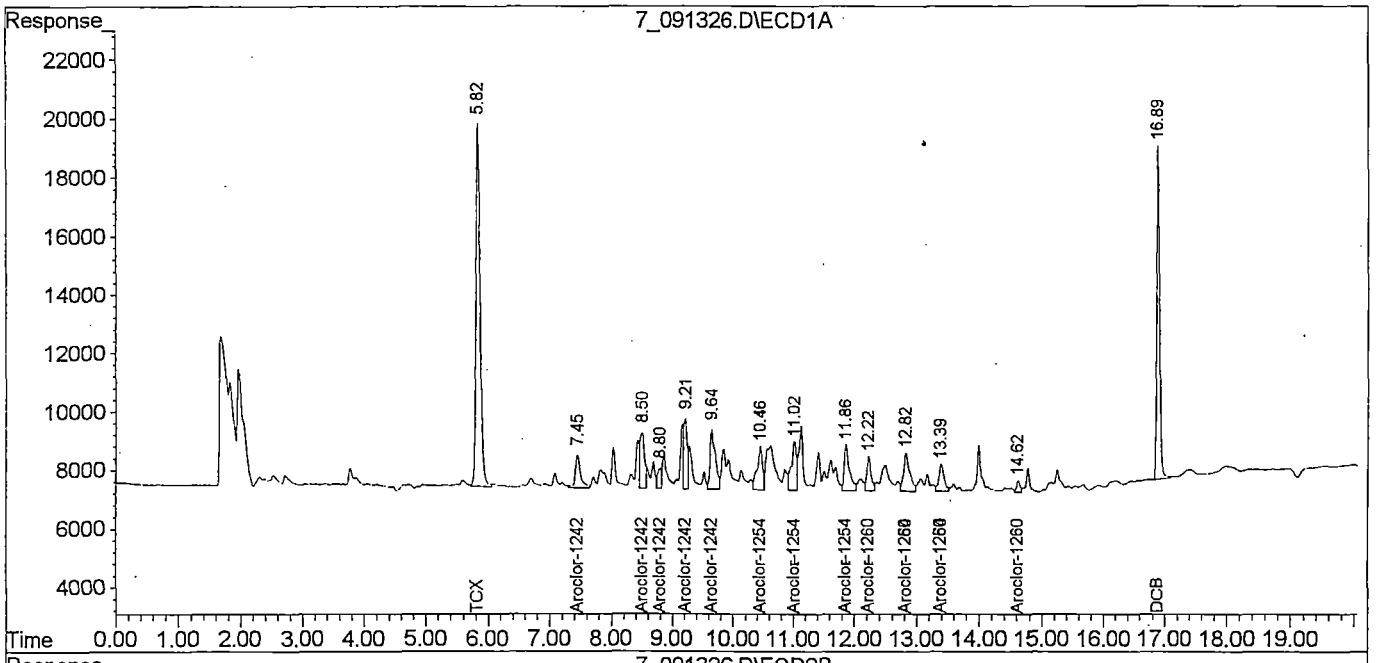
FORM I PCB

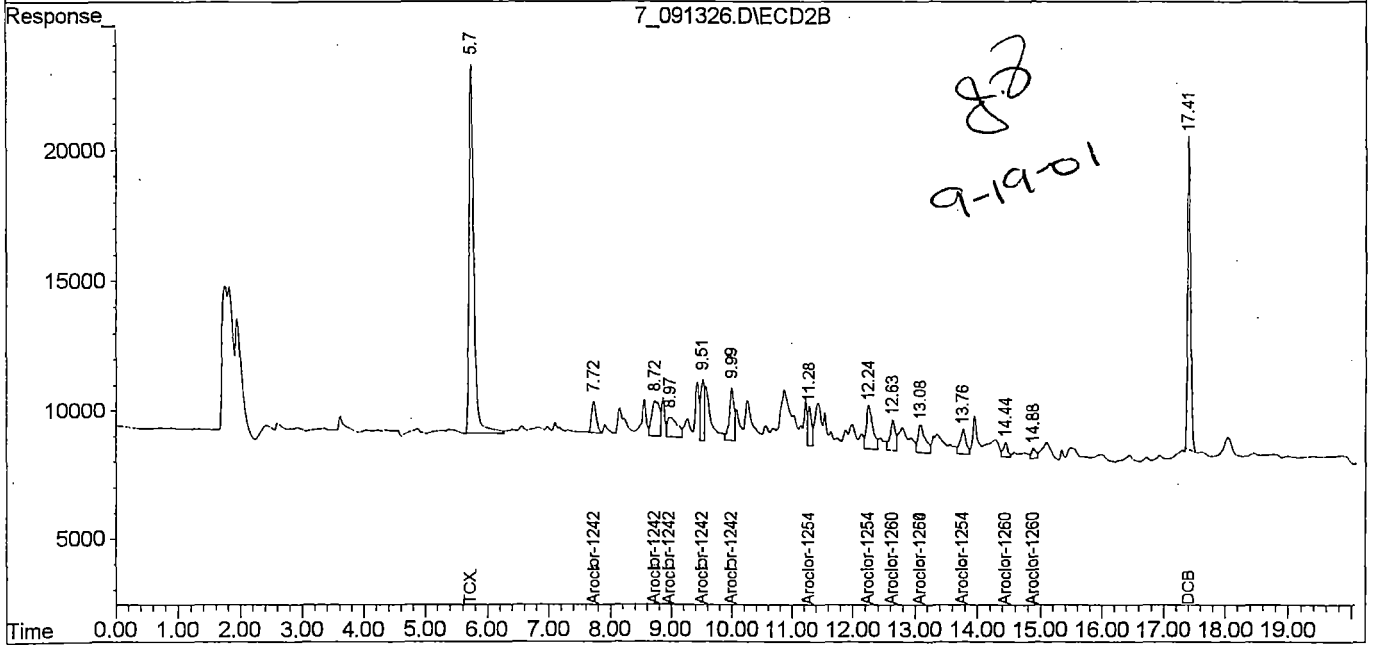
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091326.D\ECD1A.CH Vial: 26
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091326.D\ECD2B.CH
Acq On : 13 Sep 2001 19:43 Operator: SA
Sample : 47292.06 *E02N3 * Inst : HP_07
Misc : *EPA*30.4G/5.0ML*15 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 10:20 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





9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091326.D\ECD1A.CH Vial: 26
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091326.D\ECD2B.CH
Acq On : 13 Sep 2001 19:43 Operator: SA
Sample : 47292.06 *E02N3 * Inst : HP_07
Misc : *EPA*30.4G/5.0ML*15 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 10:20 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

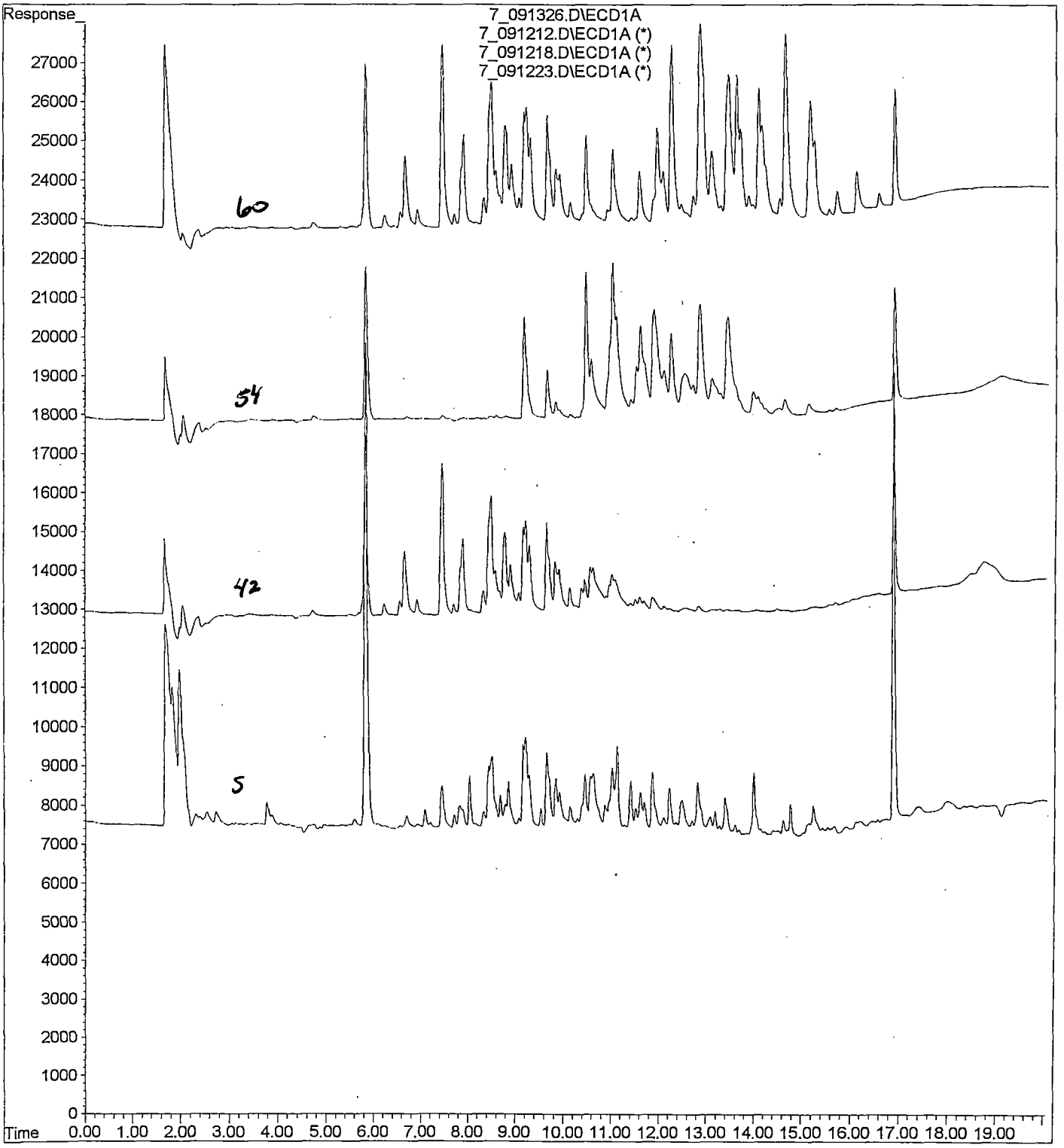
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	563822	764721	5.369	5.702
	Spiked Amount 7.740			Recovery	=	69.37%	73.67%
22)	S DCB	16.89	17.41	374690	412664	6.855	6.622
	Spiked Amount 7.740			Recovery	=	88.57%	85.56%
	Target Compounds:						
7)	L4 Aroclor-1242	7.45	7.72	68240	67570	15.2	11.3 #
8)	L4 Aroclor-1242 {2}	8.50	8.72	102813	115163	19.2m	19.7m
9)	L4 Aroclor-1242 {3}	8.80	8.97f	29168	89767	10.2	20.9 #
10)	L4 Aroclor-1242 {4}	9.21	9.51	92589	91476	44.6	34.9m
11)	L4 Aroclor-1242 {5}	9.64	9.99	121515	107431	38.9	44.2
	Sum Aroclor-1242			414325	471408	128.1	130.9
	Average Aroclor-1242					25.619	26.188
12)	L6 Aroclor-1254	10.46	0.00	90275	0	21.5	N.D. d #
13)	L6 Aroclor-1254 {2}	11.02	11.28	97113	71191	14.3	12.8
14)	L6 Aroclor-1254 {3}	11.86	12.24	95249	124731	13.8	11.5
15)	L6 Aroclor-1254 {4}	12.82	13.08	89812	90532	17.1	16.8
16)	L6 Aroclor-1254 {5}	13.39	13.76	53435	63832	7.662	6.570
	Sum Aroclor-1254			425884	350286	74.4	47.6
	Average Aroclor-1254					14.878	11.892
17)	L7 Aroclor-1260	12.22	12.63	57651	67100	9.699	7.688
18)	L7 Aroclor-1260 {2}	12.82	13.08	89812	90532	9.149	10.9
19)	L7 Aroclor-1260 {3}	13.39	0.00	53435	0	7.047	N.D. #
20)	L7 Aroclor-1260 {4}	0.00	14.44	0	26538	N.D.	5.652 #
21)	L7 Aroclor-1260 {5}	14.62	14.88	15620	18962	1.971	2.318
	Sum Aroclor-1260			216519	203132	10.8	10.3
	Average Aroclor-1260					6.967	6.650

AG.14.01

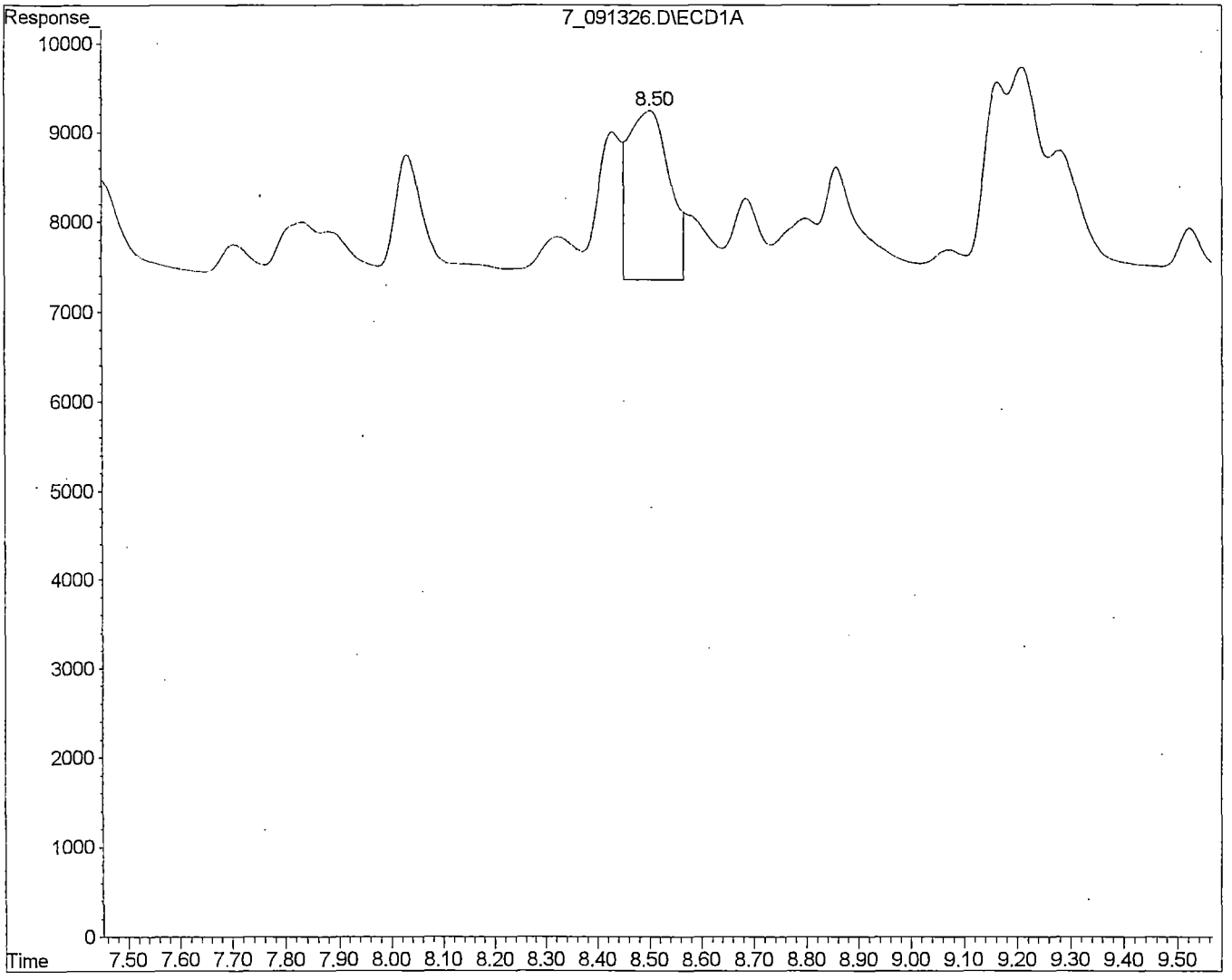
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

File : F:\HPCHEM\HP\7\DATA\09_13_01\7_091326.D
Operator : SA
Acquired : 13 Sep 2001 19:43 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47292.06 *E02N3 *
Misc Info : *EPA*30.4G/5.0ML*15
Vial Number: 26



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091326.D
Date Acquired: 13 Sep 2001 19:43
Inst: HP_07 Operator ID: SA
Name: 47292.06 *E02N3 *
Misc: *EPA*30.4G/5.0ML*15
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:20 2001 Quant Results File: XPCBI12.RES



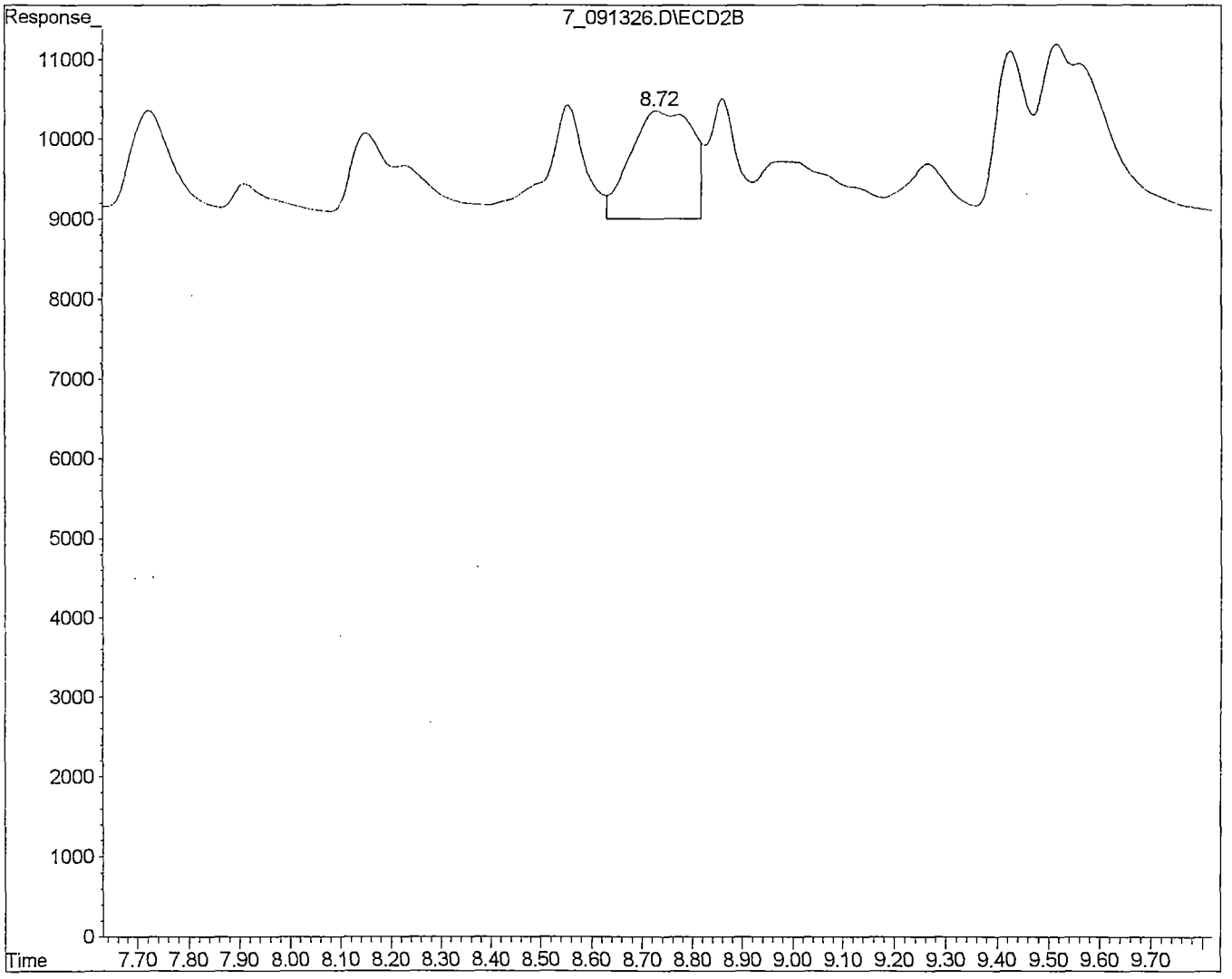
cd 9-14-9

Aroclor-1242 {2} 8.50min area: 102813 m

Integration Time Range: 8.45 - 8.57

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091326.D
Date Acquired: 13 Sep 2001 19:43
Inst: HP_07 Operator ID: SA
Name: 47292.06 *E02N3 *
Misc: *EPA*30.4G/5.0ML*15
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:20 2001 Quant Results File: XPCBI12.RES



09-14-01

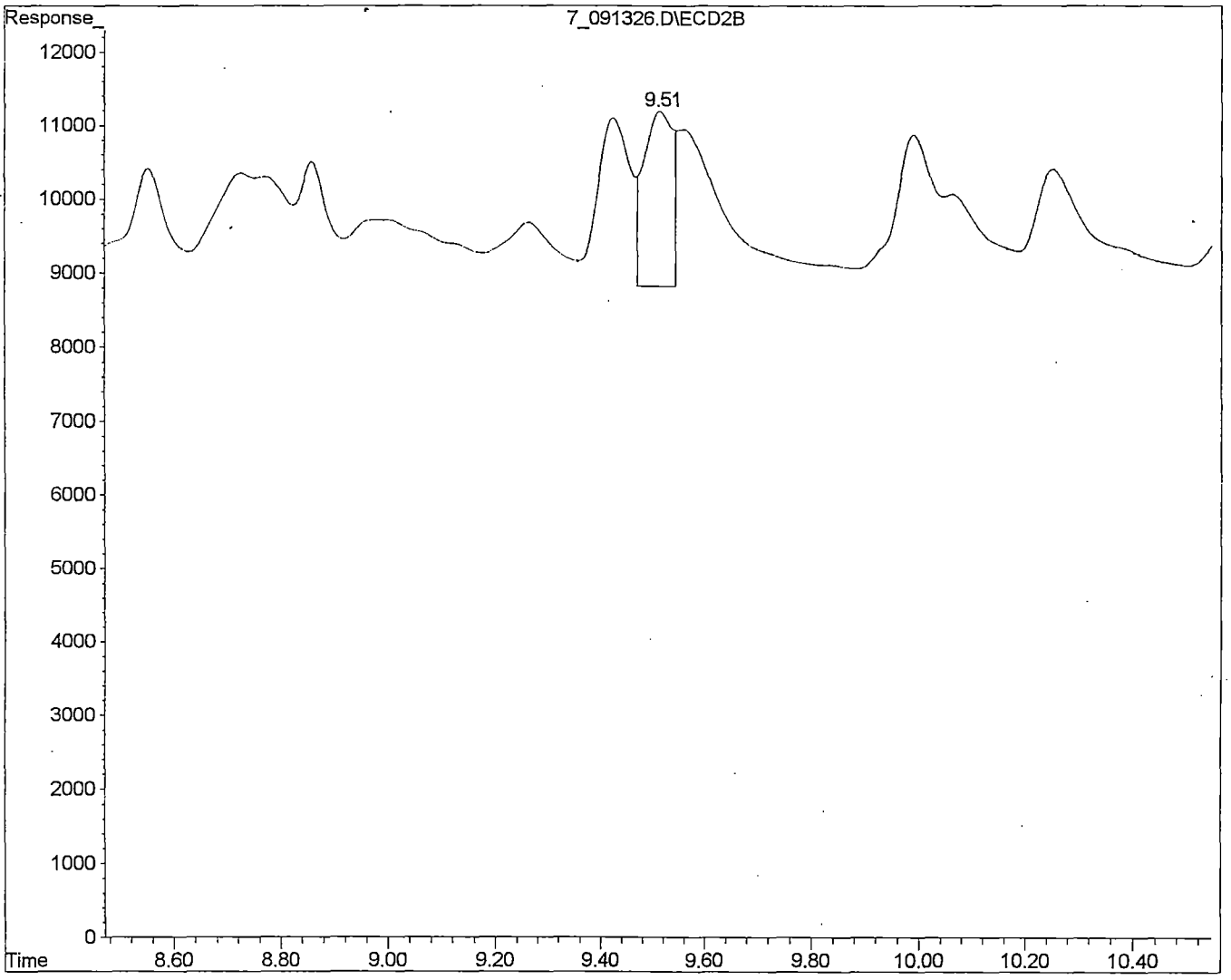
Aroclor-1242 {2} #2 8.72min area: 115163 m

Integration Time Range: 8.63 - 8.82

F:\HPCHEM\HP\7\DATA\09_13_01\7_091326.D
Report generated: Fri Sep 14 10:35:16 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091326.D
Date Acquired: 13 Sep 2001 19:43
Inst: HP_07 Operator ID: SA
Name: 47292.06 *E02N3 *
Misc: *EPA*30.4G/5.0ML*15
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:20 2001 Quant Results File: XPCBI12.RES



cd 9.14.4

Aroclor-1242 {4} #2 9.51min area: 91476 m

Integration Time Range: 9.47 - 9.54

F:\HPCHEM\HP\7\DATA\09_13_01\7_091326.D
Report generated: Fri Sep 14 10:35:17 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02N4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47292.07

Sample wt/vol: 30.4 (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: 09/13/01

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	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	18	J
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	8.3	J
11096-82-5	Aroclor-1260	4.4	J
Surrogate amount spiked		7.93	

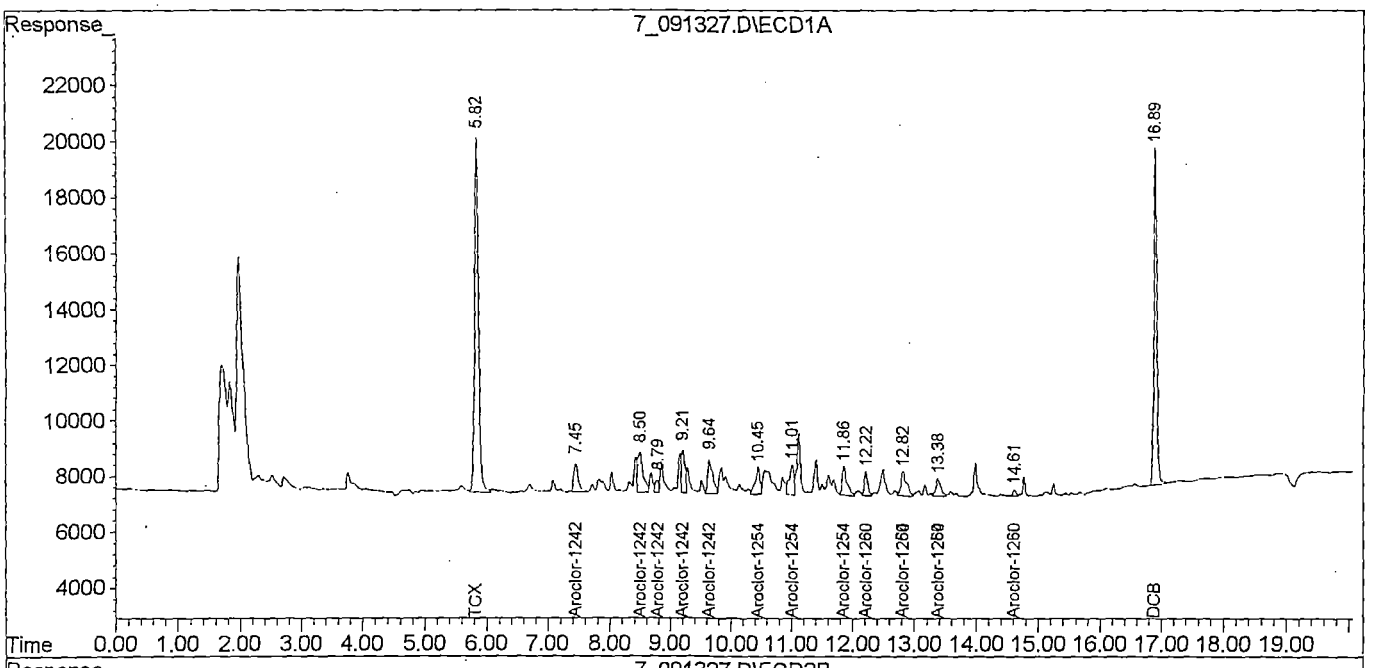
FORM I PCB

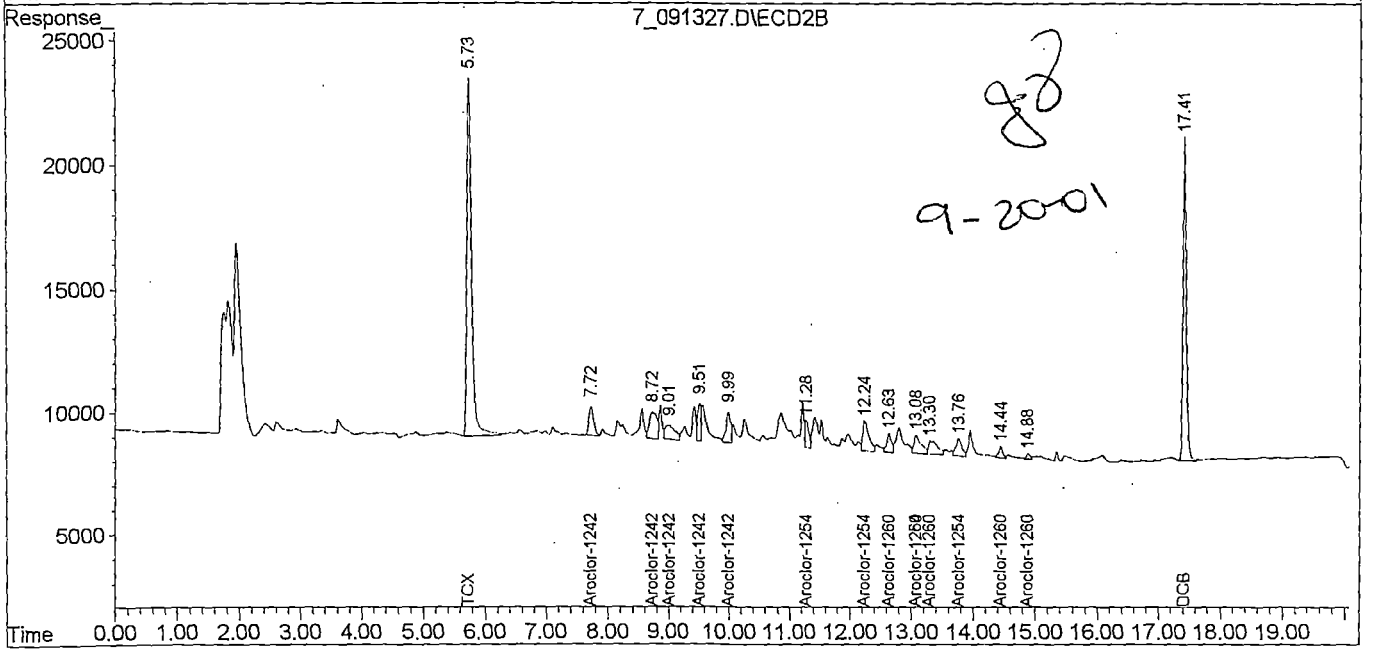
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091327.D\ECD1A.CH Vial: 27
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091327.D\ECD2B.CH
Acq On : 13 Sep 2001 20:07 Operator: SA
Sample : 47292.07 *E02N4 * Inst : HP_07
Misc : *EPA*30.4G/5.0ML*17 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 10:23 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





88
9-2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091327.D\ECD1A.CH Vial: 27
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091327.D\ECD2B.CH
Acq On : 13 Sep 2001 20:07 Operator: SA
Sample : 47292.07 *E02N4 * Inst : HP_07
Misc : *EPA*30.4G/5.0ML*17 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 10:23 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

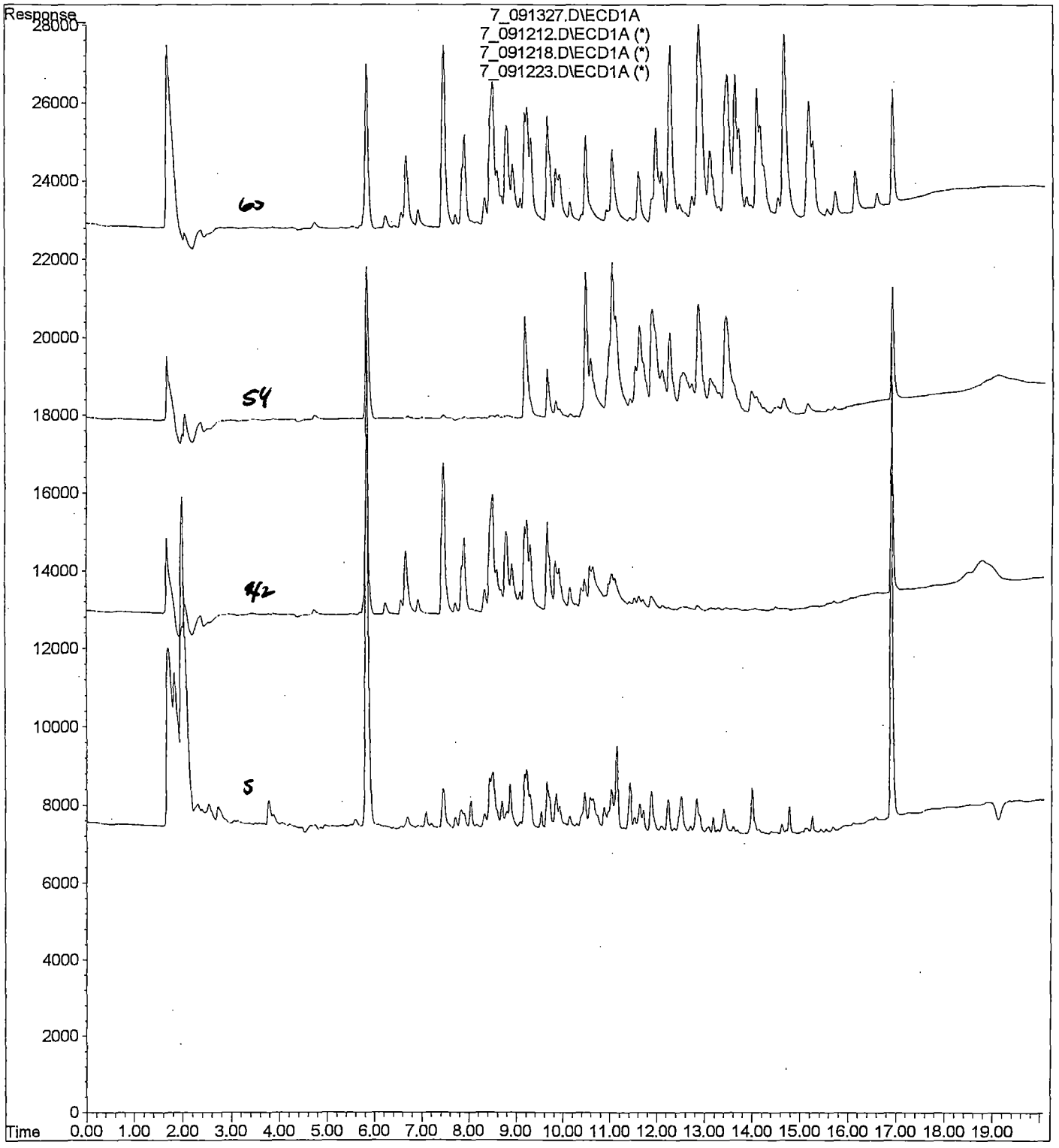
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.73	566007	766945	5.519	5.856	
	Spiked Amount 7.926			Recovery	=	69.63%	73.88%	
22)	S DCB	16.89	17.41	392437	471475	7.353	7.748m	
	Spiked Amount 7.926			Recovery	=	92.77%	97.75%	
	Target Compounds:							
7)	L4 Aroclor-1242	7.45	7.72	51624	62680	11.8	10.7	
8)	L4 Aroclor-1242 {2}	8.50	8.72	93738	94891	17.9	16.6	
9)	L4 Aroclor-1242 {3}	8.79	9.01	19410	67628	6.956	16.1	#
10)	L4 Aroclor-1242 {4}	9.21	9.51	59316	56175	29.2	21.9	
11)	L4 Aroclor-1242 {5}	9.64	9.99	71291	63780	23.4	26.9m	
	Sum Aroclor-1242			295380	345154	89.3	92.3	
	Average Aroclor-1242					17.856	18.453	
12)	L6 Aroclor-1254	10.45	0.00	55820	0	13.6	N.D. d	#
13)	L6 Aroclor-1254 {2}	11.02	11.28	60666	48577	9.163	8.929	
14)	L6 Aroclor-1254 {3}	11.86	12.24	55532	83425	8.244	7.843	
15)	L6 Aroclor-1254 {4}	12.82	13.08	54035	61119	10.5	11.6	
16)	L6 Aroclor-1254 {5}	13.38	13.76	35009	46472	5.141	4.899	
	Sum Aroclor-1254			261061	239593	46.7	33.3	
	Average Aroclor-1254					9.339	8.316	
17)	L7 Aroclor-1260	12.22	12.63	34994	38661	6.029	4.537	
18)	L7 Aroclor-1260 {2}	12.82	13.08	54035	61119	5.637	7.566	#
19)	L7 Aroclor-1260 {3}	13.38	13.30f	35009	53073	4.728	7.268m	#
20)	L7 Aroclor-1260 {4}	0.00	14.44	0	20776	N.D.	4.532	#
21)	L7 Aroclor-1260 {5}	14.62	14.88	8011	9221	1.035	1.154	
	Sum Aroclor-1260			132049	182850	6.908	9.930	
	Average Aroclor-1260					4.358	5.011	

AS 9-14-01

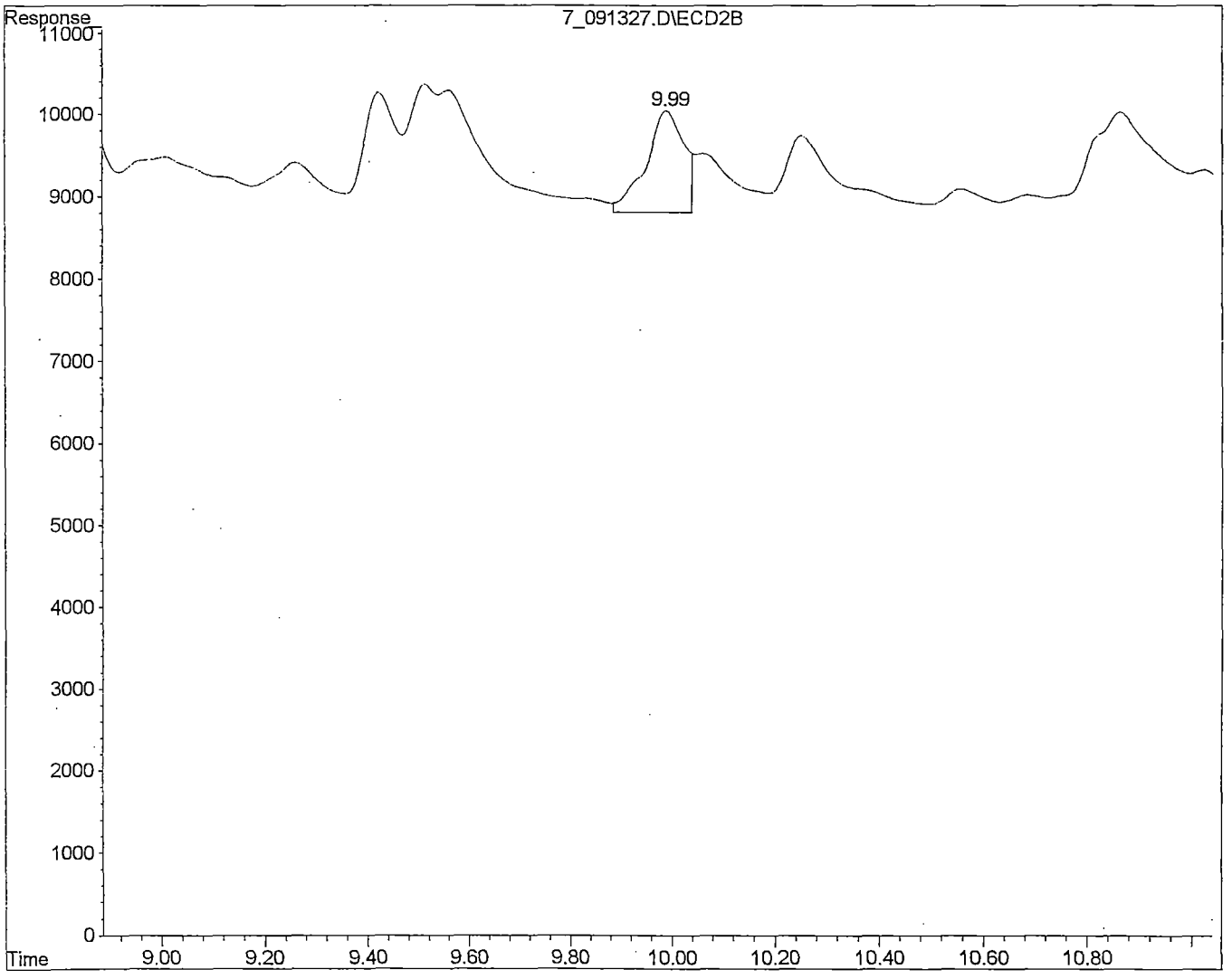
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

File : F:\HPCHEM\HP\7\DATA\09_13_01\7_091327.D
Operator : SA
Acquired : 13 Sep 2001 20:07 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47292.07 *E02N4 *
Misc Info : *EPA*30.4G/5.0ML*17
Vial Number: 27



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091327.D
Date Acquired: 13 Sep 2001 20:07
Inst: HP_07 Operator ID: SA
Name: 47292.07 *E02N4 *
Misc: *EPA*30.4G/5.0ML*17
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:23 2001 Quant Results File: XPCBI12.RES



CO9-#4-9

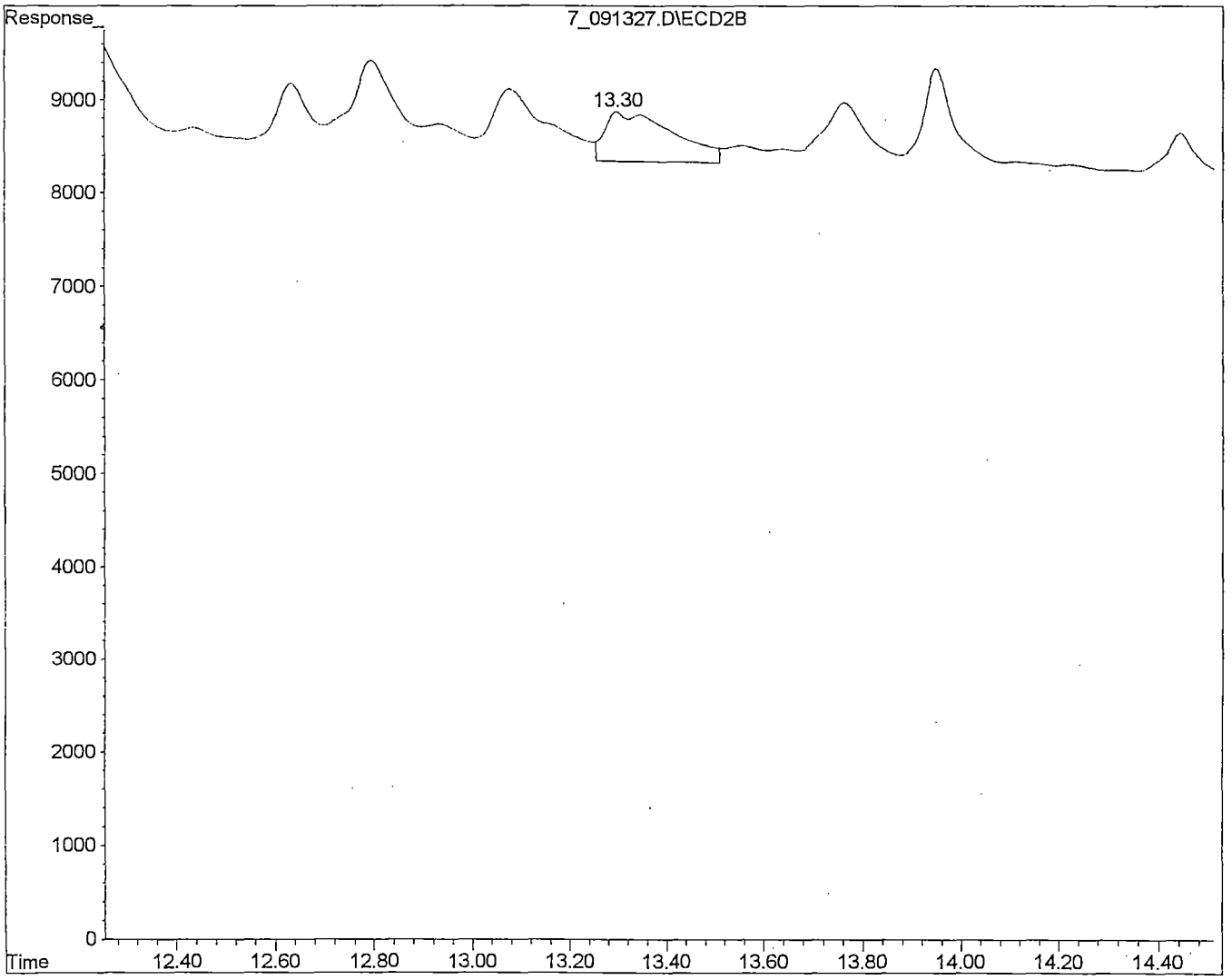
Aroclor-1242 {5} #2 9.99min area: 63780 m

Integration Time Range: 9.89 - 10.04

F:\HPCHEM\HP\7\DATA\09_13_01\7_091327.D
Report generated: Fri Sep 14 10:35:19 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091327.D
Date Acquired: 13 Sep 2001 20:07
Inst: HP_07 Operator ID: SA
Name: 47292.07 *E02N4 *
Misc: *EPA*30.4G/5.0ML*17
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:23 2001 Quant Results File: XPCBI12.RES



09-14-01

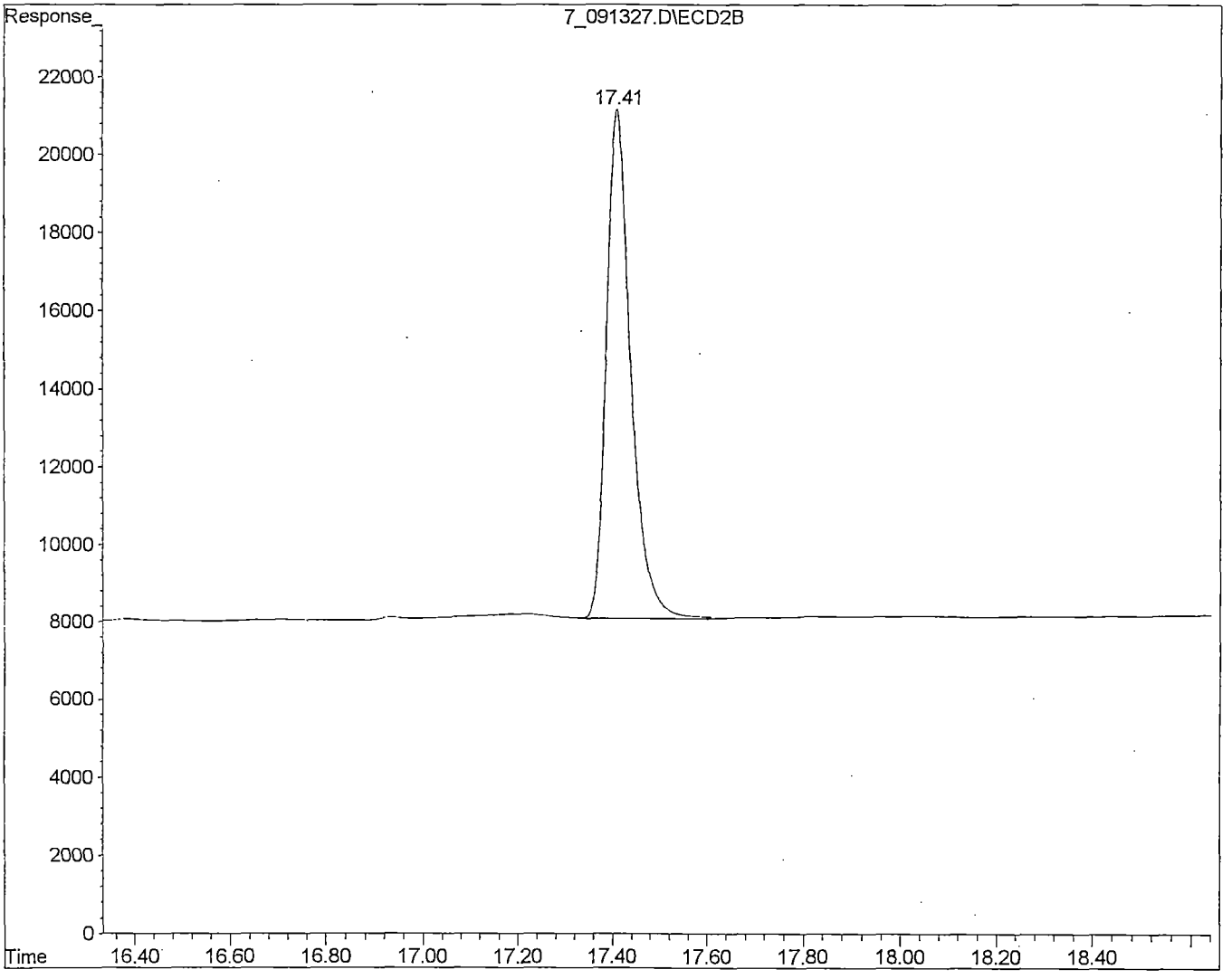
Aroclor-1260 {3} #2 13.30min area: 53073 m

Integration Time Range: 13.25 - 13.51

F:\HPCHEM\HP\7\DATA\09_13_01\7_091327.D
Report generated: Fri Sep 14 10:35:19 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091327.D
Date Acquired: 13 Sep 2001 20:07
Inst: HP_07 Operator ID: SA
Name: 47292.07 *E02N4 *
Misc: *EPA*30.4G/5.0ML*17
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:23 2001 Quant Results File: XPCBI12.RES



CS 9.14.01

DCB #2 17.41min area: 471475 m

Integration Time Range: 17.33 - 17.64

F:\HPCHEM\HP\7\DATA\09_13_01\7_091327.D
Report generated: Fri Sep 14 10:35:20 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02N5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47292.08

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

% Moisture: 13 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: 09/13/01

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	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	43	
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	7.5	JP
11096-82-5	Aroclor-1260	4.9	J
Surrogate amount spiked		7.56	

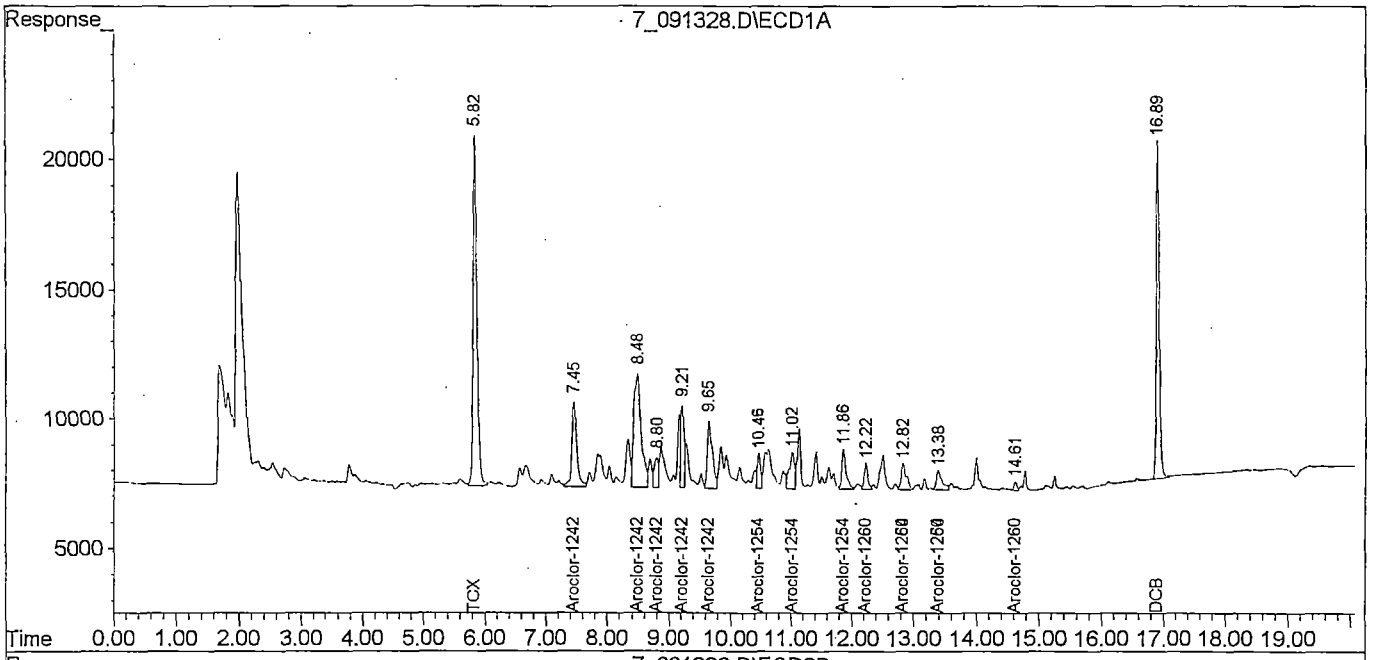
FORM I PCB

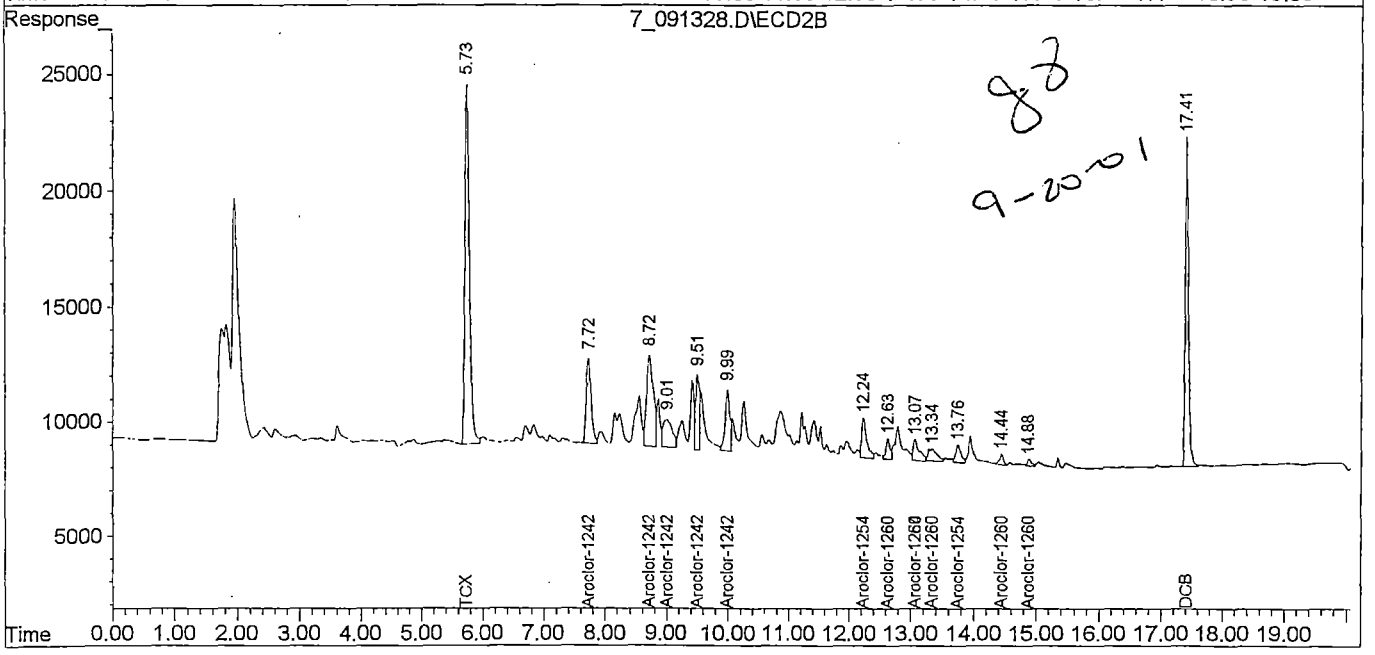
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091328.D\ECD1A.CH Vial: 28
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091328.D\ECD2B.CH
Acq On : 13 Sep 2001 20:32 Operator: SA
Sample : 47292.08 *E02N5 * Inst : HP_07
Misc : *EPA*30.4G/5.0ML*13 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 10:28 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





gg
9-20-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091328.D\ECD1A.CH Vial: 28
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091328.D\ECD2B.CH
Acq On : 13 Sep 2001 20:32 Operator: SA
Sample : 47292.08 *E02N5 * Inst : HP_07
Misc : *EPA*30.4G/5.0ML*13 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 10:28 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

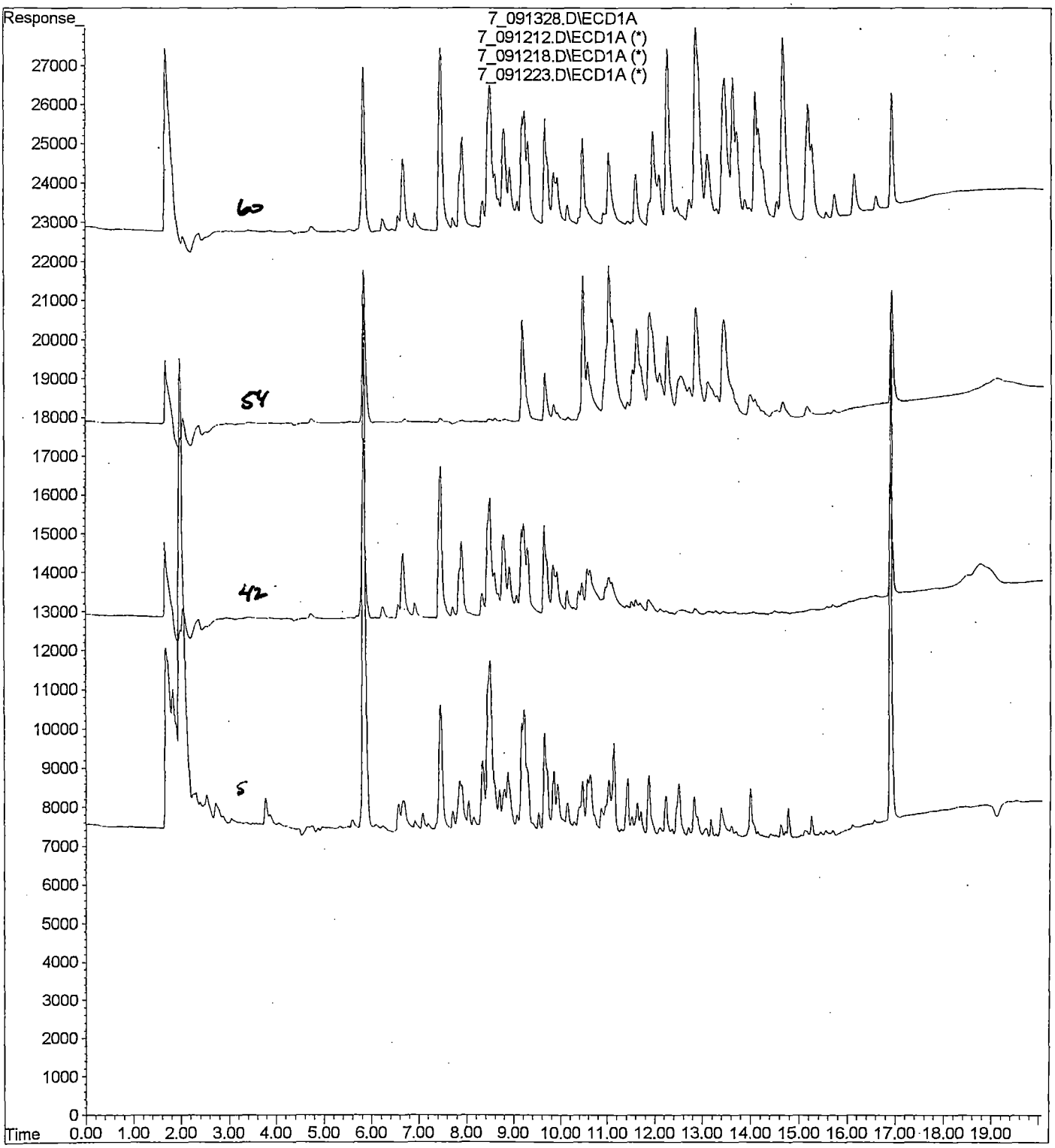
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.73	599236	785377	5.575	5.721	
	Spiked Amount 7.562			Recovery	=	73.72%	75.65%	
22)	S DCB	16.89	17.41	423248	508875	7.566	7.978m	
	Spiked Amount 7.562			Recovery	=	100.05%	105.50%	
	Target Compounds:							
7)	L4 Aroclor-1242	7.45	7.72	187842	215560	41.0	35.2	
8)	L4 Aroclor-1242 {2}	8.48	8.72	371478	312822	67.7	52.4	
9)	L4 Aroclor-1242 {3}	8.80	9.01	54403	132793	18.6	30.2	#
10)	L4 Aroclor-1242 {4}	9.21	9.51	114827	129879	54.0m	48.4m	
11)	L4 Aroclor-1242 {5}	9.65	9.99	148691	127486	46.5	51.2	
	Sum Aroclor-1242			877241	918540	227.8	217.3	
	Average Aroclor-1242					45.558	43.461	
12)	L6 Aroclor-1254	10.46	0.00	55506	0	12.9m	N.D. d	#
13)	L6 Aroclor-1254 {2}	11.02	0.00	84425	0	12.2	N.D. d	#
14)	L6 Aroclor-1254 {3}	11.86	12.24	74333	102927	10.5	9.231	
15)	L6 Aroclor-1254 {4}	12.82	13.07	57780	46613	10.7	8.436	
16)	L6 Aroclor-1254 {5}	13.38	13.76	47201	47585	6.612	4.785	#
	Sum Aroclor-1254			319245	197124	53.0	22.5	
	Average Aroclor-1254					10.593	7.484	
17)	L7 Aroclor-1260	12.22	12.63	42787	41240	7.033	4.617	#
18)	L7 Aroclor-1260 {2}	12.82	13.07f	57780	64032	5.751	7.562m	#
19)	L7 Aroclor-1260 {3}	13.38	13.34f	47201	52549	6.082	6.865m	
20)	L7 Aroclor-1260 {4}	0.00	14.44	0	18428	N.D.	3.835	#
21)	L7 Aroclor-1260 {5}	14.62	14.88	11343	13812	1.399	1.649	
	Sum Aroclor-1260			159111	190062	7.662	9.274	
	Average Aroclor-1260					5.066	4.906	

9.14.01

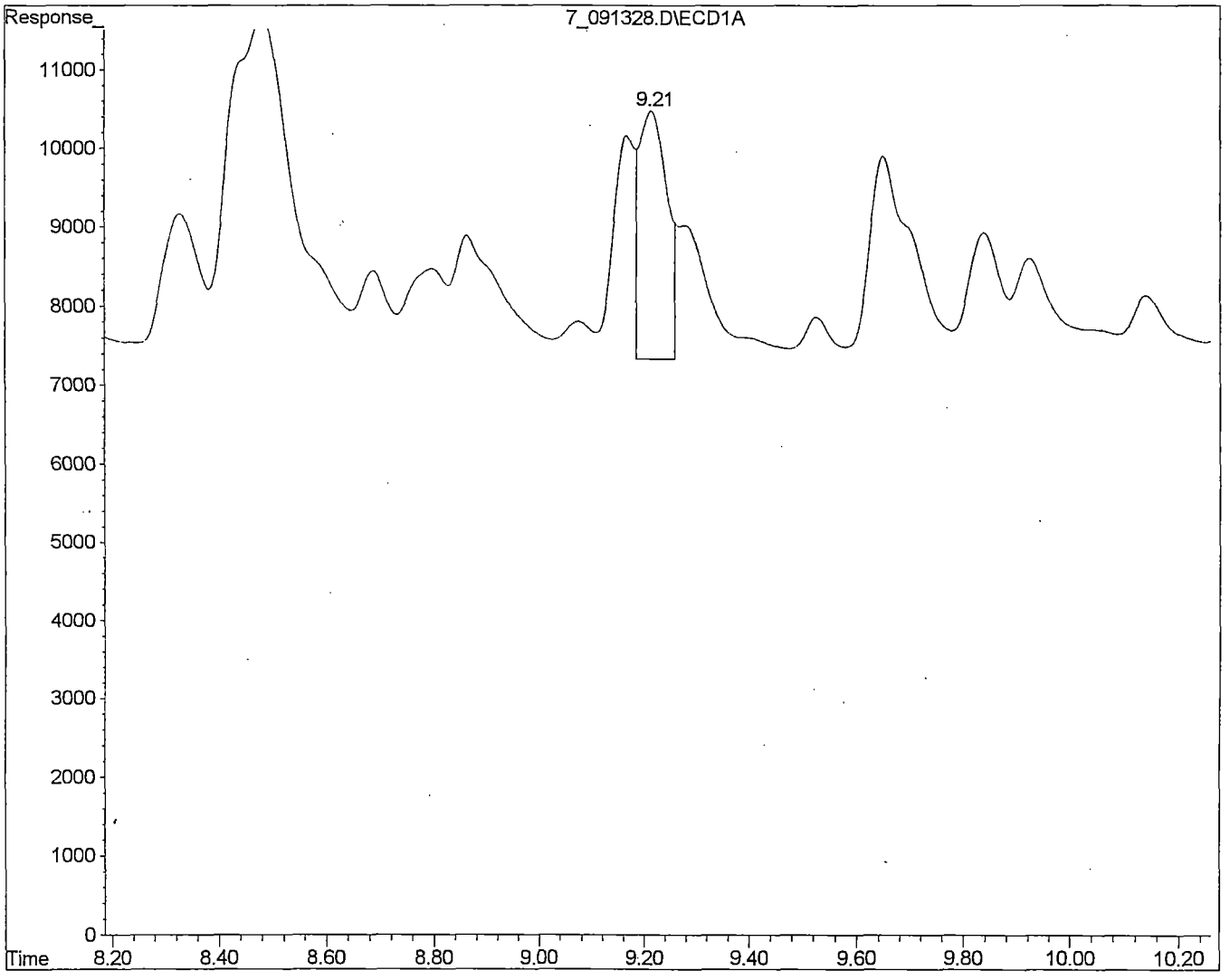
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

File : F:\HPCHEM\HP\7\DATA\09_13_01\7_091328.D
Operator : SA
Acquired : 13 Sep 2001 20:32 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47292.08 *E02N5 *
Misc Info : *EPA*30.4G/5.0ML*13
Vial Number: 28



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091328.D
Date Acquired: 13 Sep 2001 20:32
Inst: HP_07 Operator ID: SA
Name: 47292.08 *E02N5 *
Misc: *EPA*30.4G/5.0ML*13
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:28 2001 Quant Results File: XPCBI12.RES



009-14-1

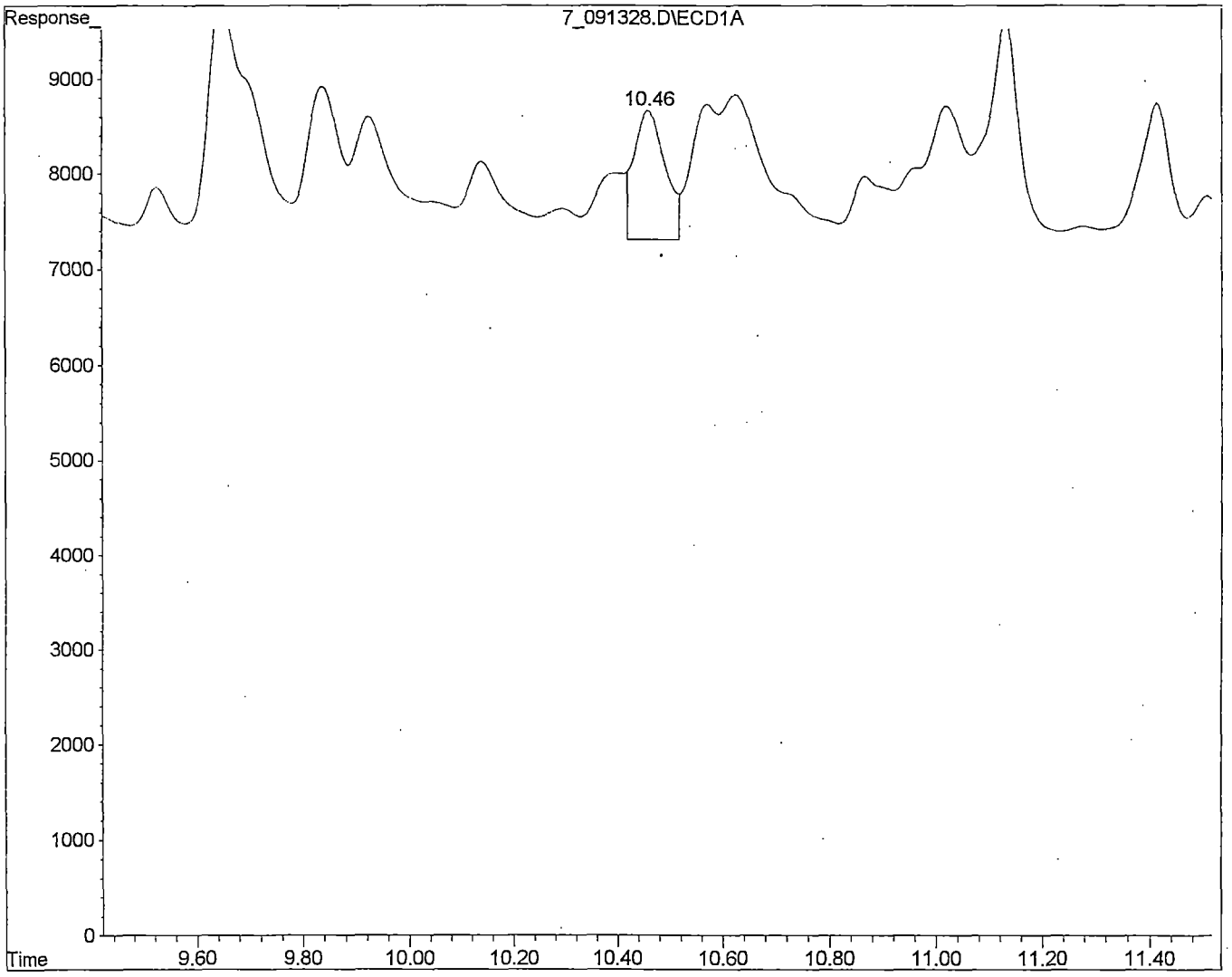
Aroclor-1242 {4} 9.21min area: 114827 m

Integration Time Range: 9.19 - 9.26

F:\HPCHEM\HP\7\DATA\09_13_01\7_091328.D
Report generated: Fri Sep 14 10:35:21 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091328.D
Date Acquired: 13 Sep 2001 20:32
Inst: HP_07 Operator ID: SA
Name: 47292.08 *E02N5 *
Misc: *EPA*30.4G/5.0ML*13
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:28 2001 Quant Results File: XPCBI12.RES



09-14-01

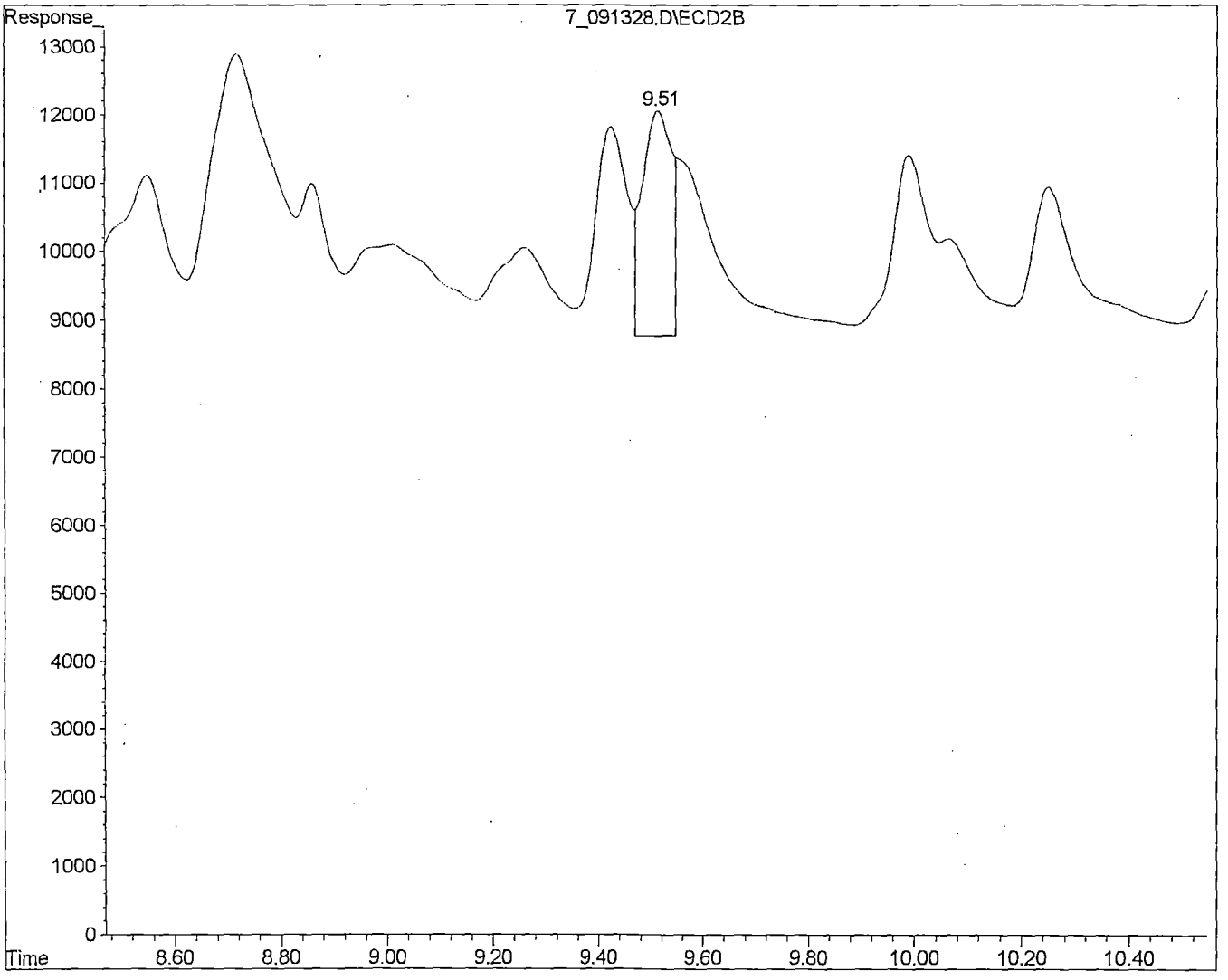
Aroclor-1254 10.46min area: 55506 m

Integration Time Range: 10.42 - 10.52

F:\HPCHEM\HP\7\DATA\09_13_01\7_091328.D
Report generated: Fri Sep 14 10:35:22 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091328.D
Date Acquired: 13 Sep 2001 20:32
Inst: HP_07 Operator ID: SA
Name: 47292.08 *E02N5 *
Misc: *EPA*30.4G/5.0ML*13
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:28 2001 Quant Results File: XPCBI12.RES

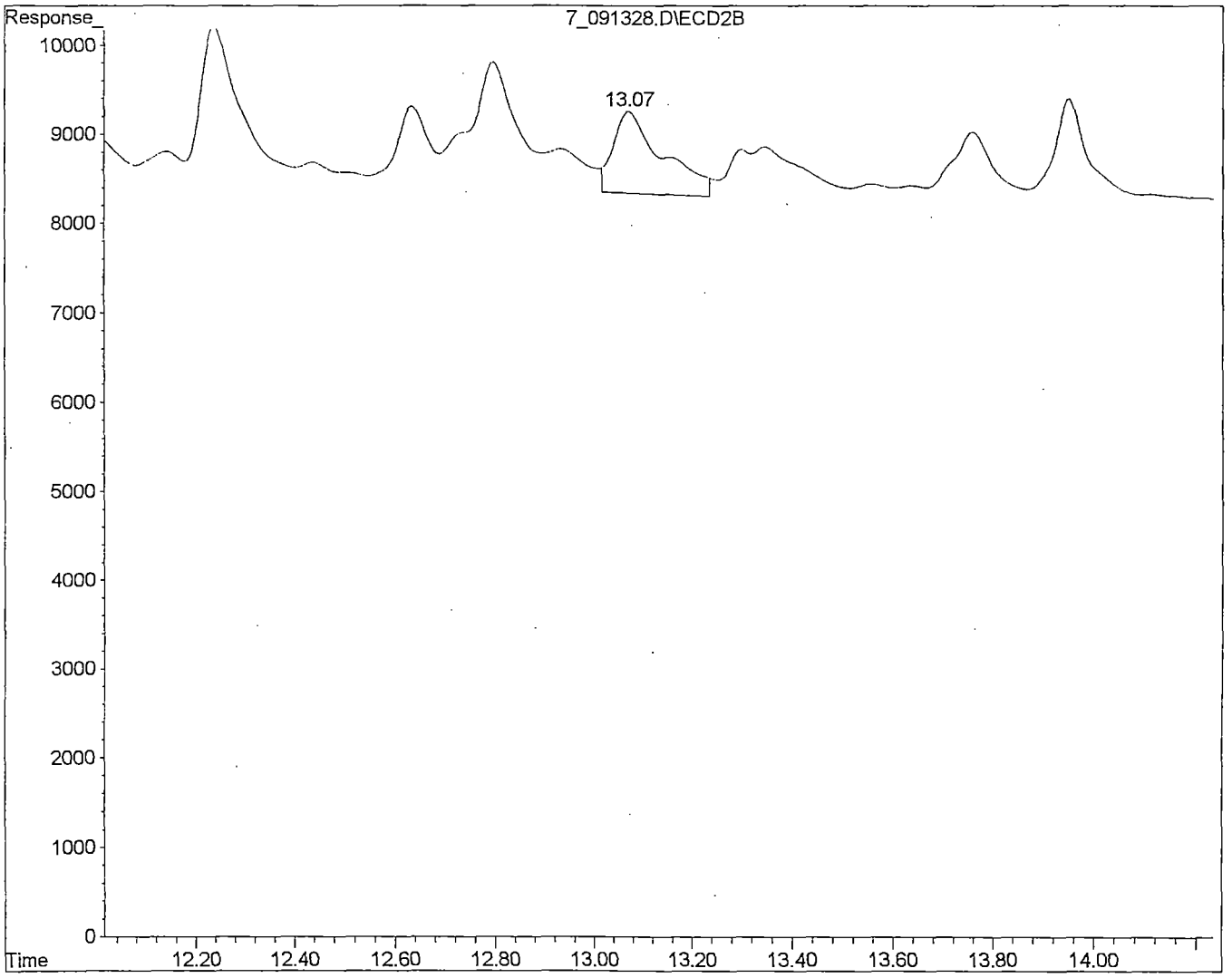


Aroclor-1242 {4} #2 9.51min area: 129879 m

Integration Time Range: 9.47 - 9.55

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091328.D
Date Acquired: 13 Sep 2001 20:32
Inst: HP_07 Operator ID: SA
Name: 47292.08 *E02N5 *
Misc: *EPA*30.4G/5.0ML*13
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:28 2001 Quant Results File: XPCBI12.RES



A 9-14-9

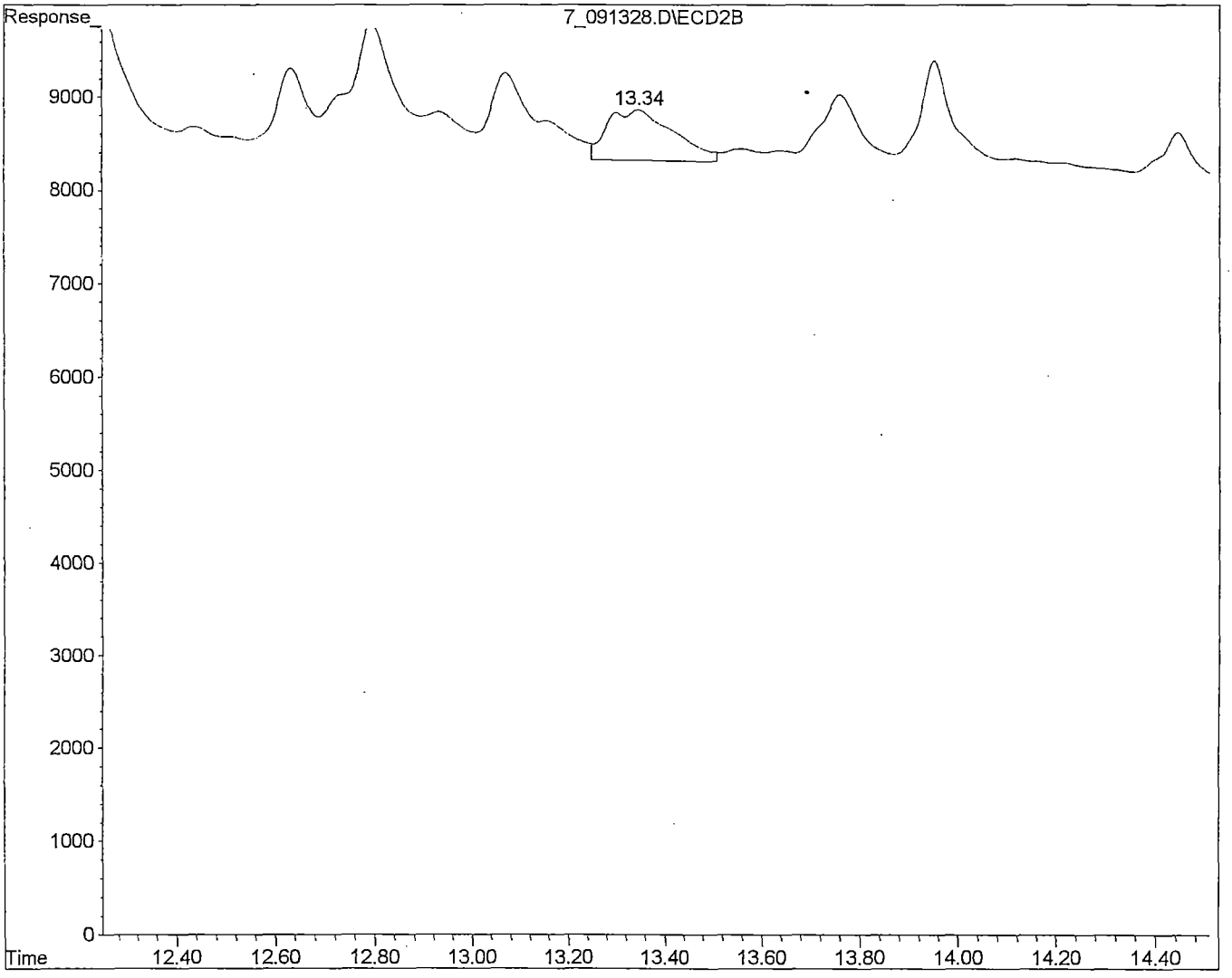
Aroclor-1260 {2} #2 13.07min area: 64032 m

Integration Time Range: 13.01 - 13.23

F:\HPCHEM\HP\7\DATA\09_13_01\7_091328.D
Report generated: Fri Sep 14 10:35:24 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091328.D
Date Acquired: 13 Sep 2001 20:32
Inst: HP_07 Operator ID: SA
Name: 47292.08 *E02N5 *
Misc: *EPA*30.4G/5.0ML*13
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:28 2001 Quant Results File: XPCBI12.RES



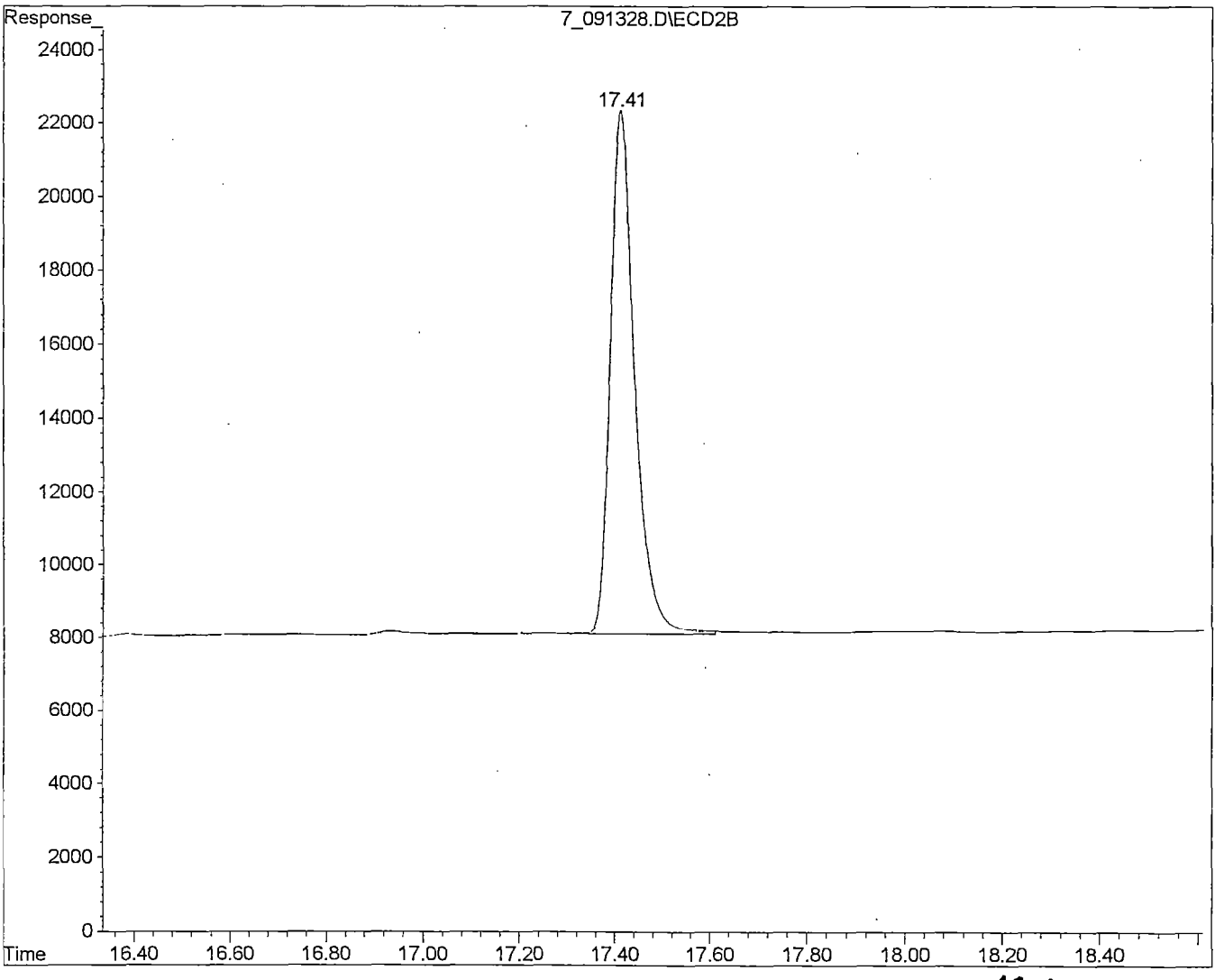
Aroclor-1260 {3} #2 13.34min area: 52549 m

Integration Time Range: 13.25 - 13.51

F:\HPCHEM\HP\7\DATA\09_13_01\7_091328.D
Report generated: Fri Sep 14 10:35:25 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091328.D
Date Acquired: 13 Sep 2001 20:32
Inst: HP_07 Operator ID: SA
Name: 47292.08 *E02N5 *
Misc: *EPA*30.4G/5.0ML*13
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:28 2001 Quant Results File: XPCBI12.RES



DCB #2 17.41min area: 508875 m

Integration Time Range: 17.34 - 17.61

F:\HPCHEM\HP\7\DATA\09_13_01\7_091328.D
Report generated: Fri Sep 14 10:35:25 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E03N6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47292.09

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

% Moisture: 14 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: 09/13/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	75	
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	29	J
11096-82-5	Aroclor-1260	13	J
Surrogate amount spiked		7.68	

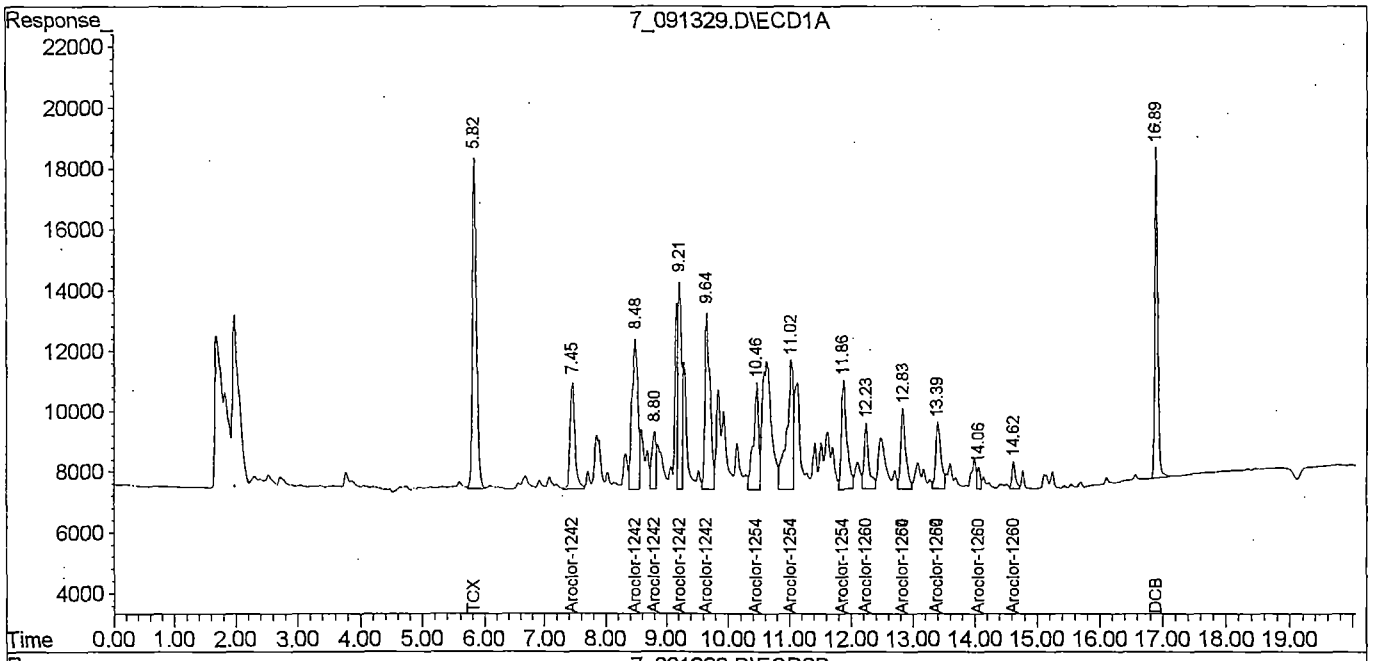
FORM I PCB

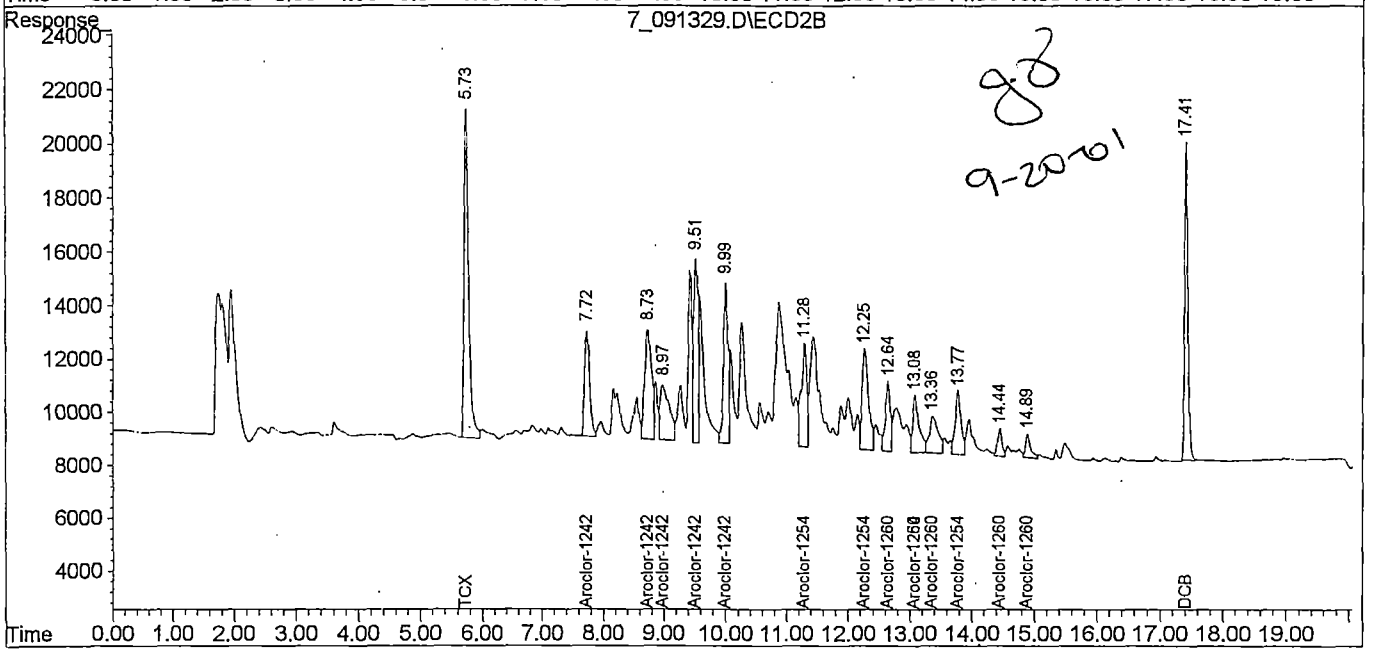
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091329.D\ECD1A.CH Vial: 29
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091329.D\ECD2B.CH
Acq On : 13 Sep 2001 20:55 Operator: SA
Sample : 47292.09 *E03N6 * Inst : HP_07
Misc : *EPA*30.3G/5.0ML*14 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 10:31 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





gs
9-20-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091329.D\ECD1A.CH Vial: 29
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091329.D\ECD2B.CH
Acq On : 13 Sep 2001 20:55 Operator: SA
Sample : 47292.09 *E03N6 * Inst : HP_07
Misc : *EPA*30.3G/5.0ML*14 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 10:31 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

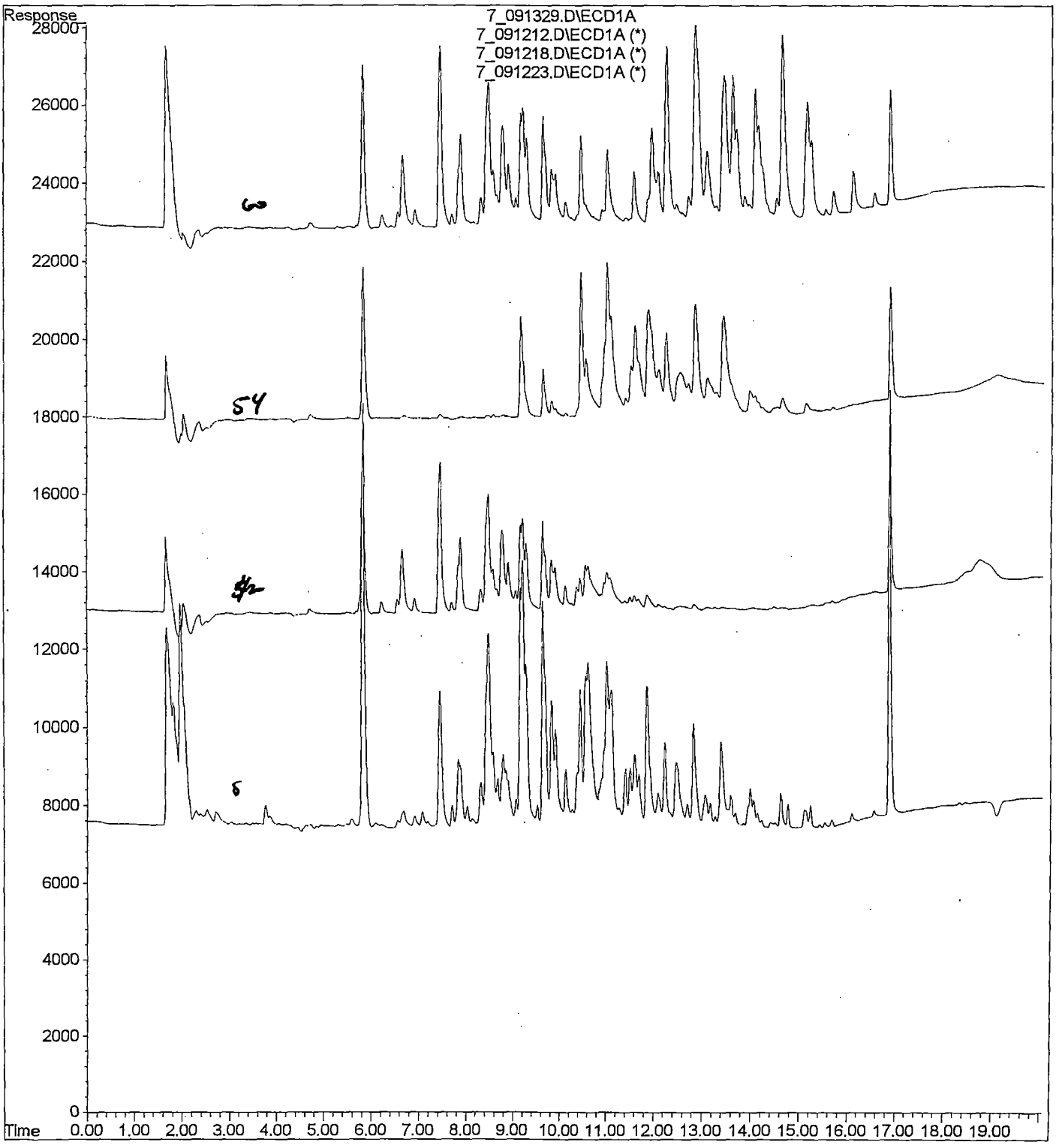
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.73	489445	642362	4.621	4.749	
	Spiked Amount 7.675			Recovery	=	60.21%	61.87%	
22)	S DCB	16.89	17.41	366145	425161	6.643	6.766	
	Spiked Amount 7.675			Recovery	=	86.55%	88.15%	
	Target Compounds:							
7)	L4 Aroclor-1242	7.45	7.72	191398	229524	42.4	38.0	
8)	L4 Aroclor-1242 {2}	8.48	8.73	338517	323536	62.6	55.0	
9)	L4 Aroclor-1242 {3}	8.80	8.97f	94386	218203	32.8	50.3	#
10)	L4 Aroclor-1242 {4}	9.21	9.51	272255	323798	129.9	122.4m	
11)	L4 Aroclor-1242 {5}	9.64	9.99	334118	303034	106.1	123.5m	
	Sum Aroclor-1242			1230675	1398095	373.8	389.3	
	Average Aroclor-1242					74.756	77.856	
12)	L6 Aroclor-1254	10.46	0.00	202019	0	47.8	N.D. d	#
13)	L6 Aroclor-1254 {2}	11.02	11.28	310537	262485	45.4	46.7	
14)	L6 Aroclor-1254 {3}	11.86	12.25	215903	277973	31.0	25.3	
15)	L6 Aroclor-1254 {4}	12.83	13.08	150359	154082	28.3	28.3	
16)	L6 Aroclor-1254 {5}	13.39	13.77	129808	159980	18.5	16.3	
	Sum Aroclor-1254			1008626	854520	171.0	116.7	
	Average Aroclor-1254					34.203	29.164	
17)	L7 Aroclor-1260	12.23	12.64	116401	147415	19.4	16.7	
18)	L7 Aroclor-1260 {2}	12.83	13.08	150359	154082	15.2	18.5	
19)	L7 Aroclor-1260 {3}	13.39	13.36f	129808	138130	17.0	18.3	
20)	L7 Aroclor-1260 {4}	14.06	14.44	24636	52955	7.217	11.2	#
21)	L7 Aroclor-1260 {5}	14.62	14.89	36133	49459	4.522	5.994	#
	Sum Aroclor-1260			457337	542041	24.3	27.1	
	Average Aroclor-1260					12.665	14.143	

AB 9.14.01

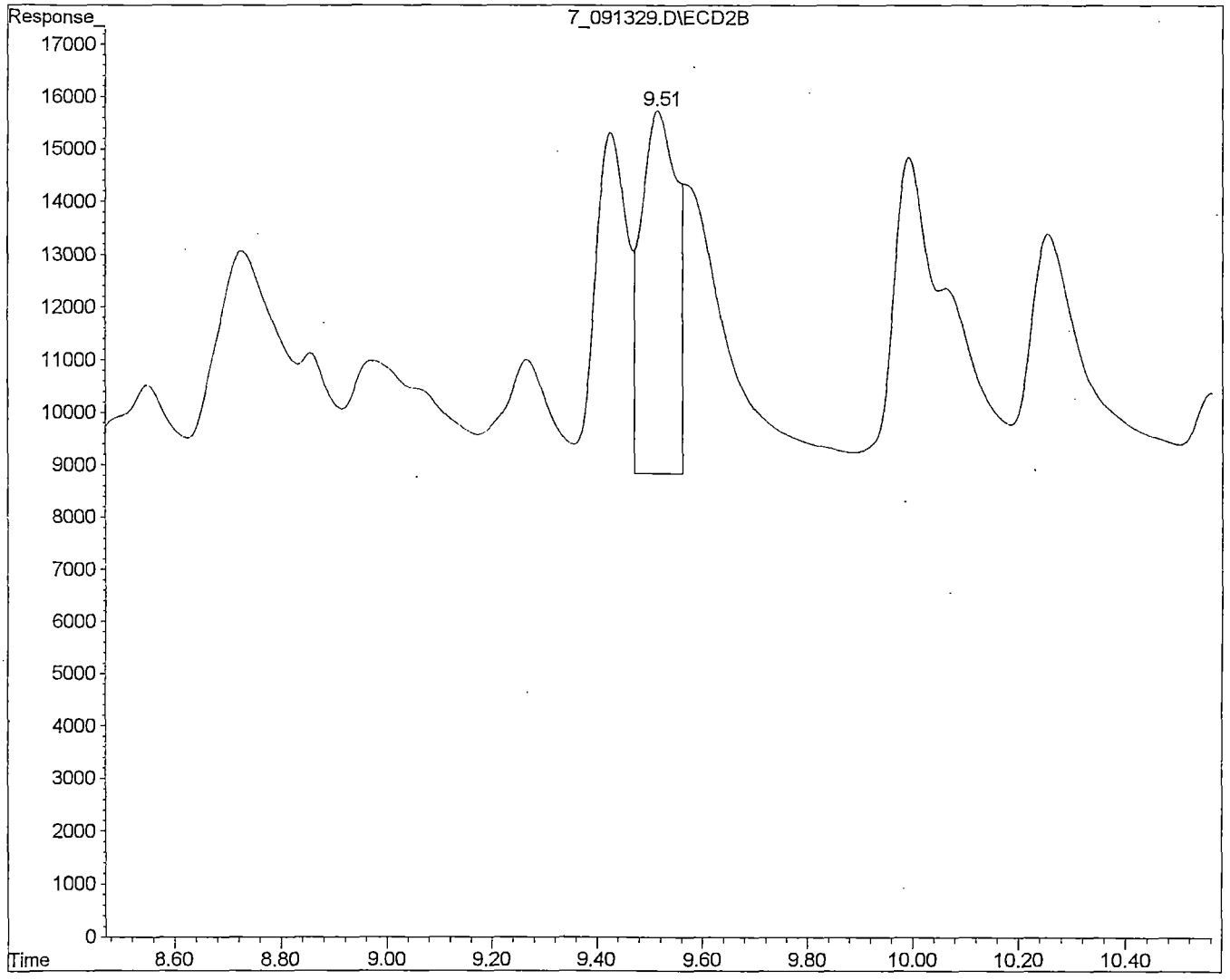
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

File : F:\HPCHEM\HP\7\DATA\09_13_01\7_091329.D
Operator : SA
Acquired : 13 Sep 2001 20:55 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47292.09 *E03N6 *
Misc Info : *EPA*30.3G/5.0ML*14
Vial Number: 29



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091329.D
Date Acquired: 13 Sep 2001 20:55
Inst: HP_07 Operator ID: SA
Name: 47292.09 *E03N6 *
Misc: *EPA*30.3G/5.0ML*14
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:31 2001 Quant Results File: XPCBI12.RES



cd 9-14-01

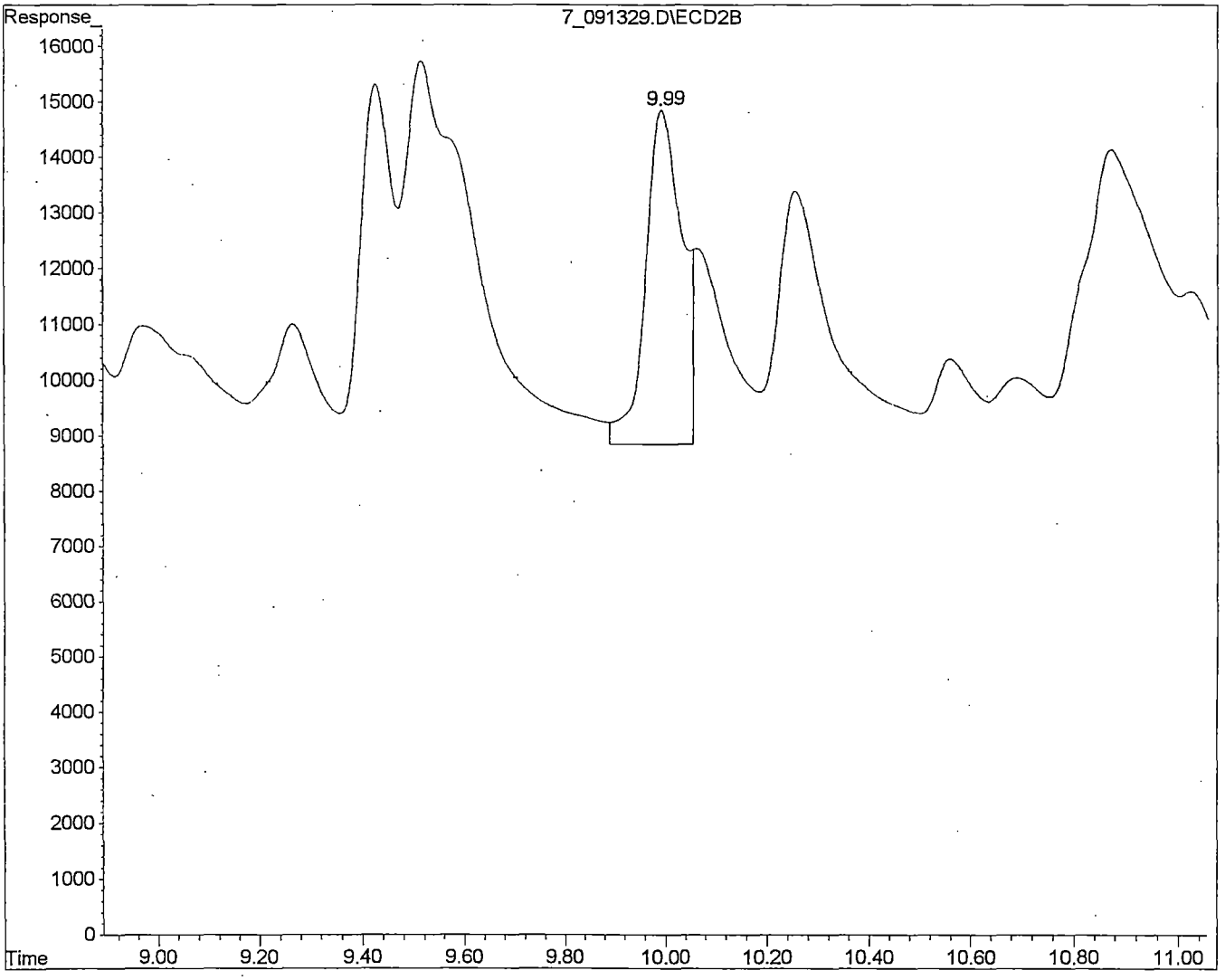
Aroclor-1242 {4} #2 9.51min area: 323798 m

Integration Time Range: 9.47 - 9.56

F:\HPCHEM\HP\7\DATA\09_13_01\7_091329.D
Report generated: Fri Sep 14 10:35:27 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091329.D
Date Acquired: 13 Sep 2001 20:55
Inst: HP_07 Operator ID: SA
Name: 47292.09 *E03N6 *
Misc: *EPA*30.3G/5.0ML*14
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:31 2001 Quant Results File: XPCBI12.RES



Aroclor-1242 {5} #2 9.99min area: 303034 m

Integration Time Range: 9.89 - 10.06

F:\HPCHEM\HP\7\DATA\09_13_01\7_091329.D
Report generated: Fri Sep 14 10:35:27 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02N7

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47292.10

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

% Moisture: 14 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: 09/13/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U
	Surrogate amount spiked	7.68	

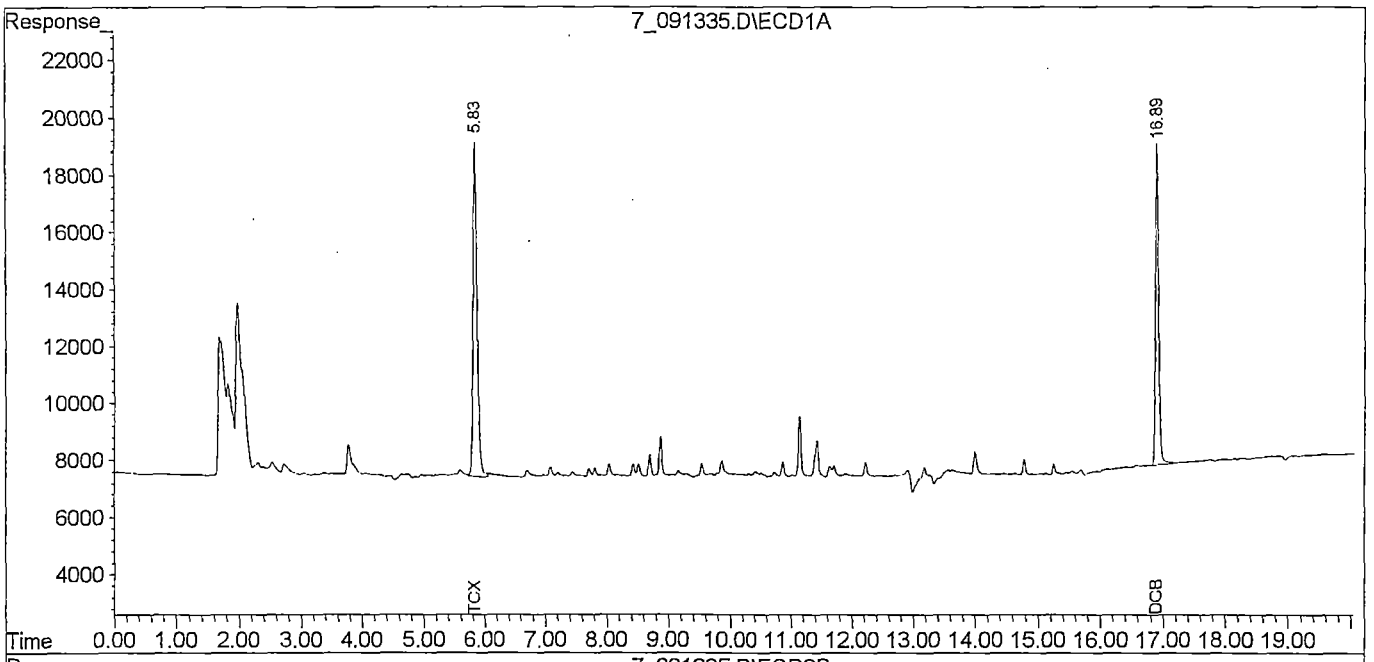
FORM I PCB

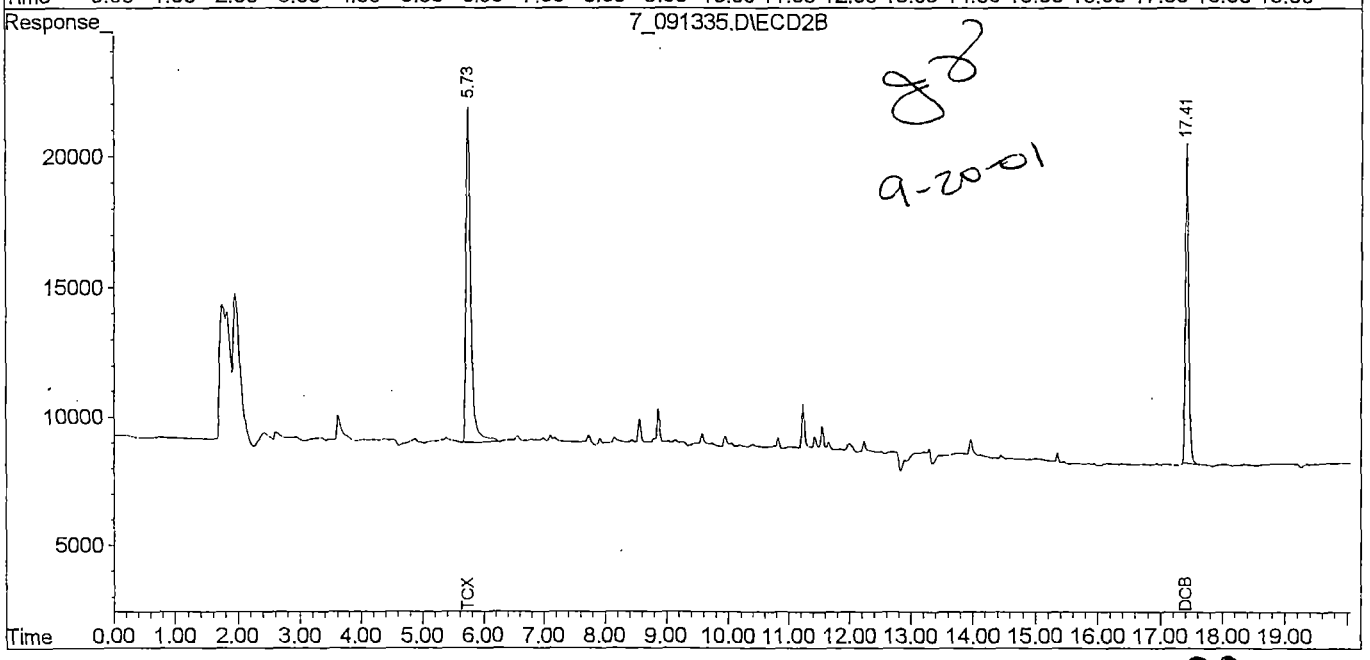
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091335.D\ECD1A.CH Vial: 35
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091335.D\ECD2B.CH
Acq On : 13 Sep 2001 23:20 Operator: SA
Sample : 47292.10 *E02N7 * Inst : HP_07
Misc : *EPA*30.3G/5.0ML*14 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 10:41 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





gg
9-20-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091335.D\ECD1A.CH Vial: 35
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091335.D\ECD2B.CH
Acq On : 13 Sep 2001 23:20 Operator: SA
Sample : 47292.10 *E02N7 * Inst : HP_07
Misc : *EPA*30.3G/5.0ML*14 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 10:41 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	537713	713575	5.077	5.276
	Spiked Amount 7.675			Recovery	=	66.15%	68.74%
22)	S DCB	16.89	17.41	383518	445872	6.958	7.095
	Spiked Amount 7.675			Recovery	=	90.66%	92.44%

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.

E02N8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47292.11

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

% Moisture: 13 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: 09/13/01

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	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	63	
11096-82-5	Aroclor-1260	21	J
Surrogate amount spiked		7.59	

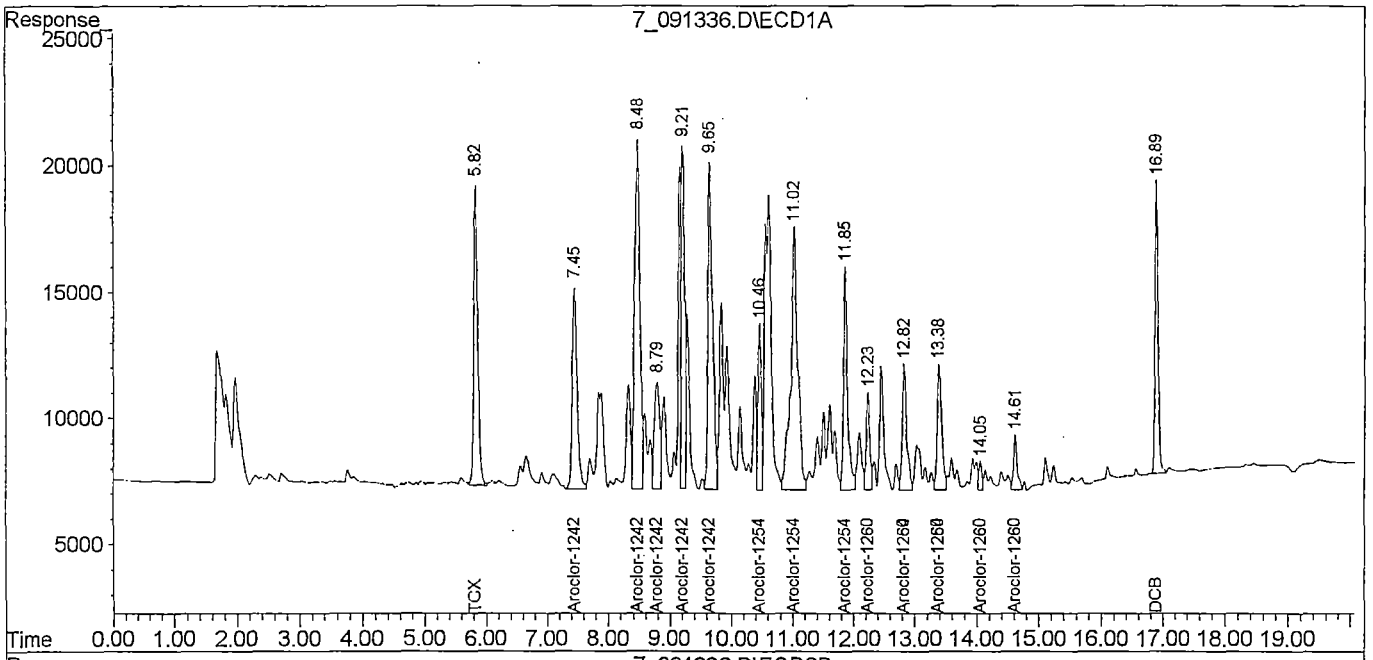
FORM I PCB

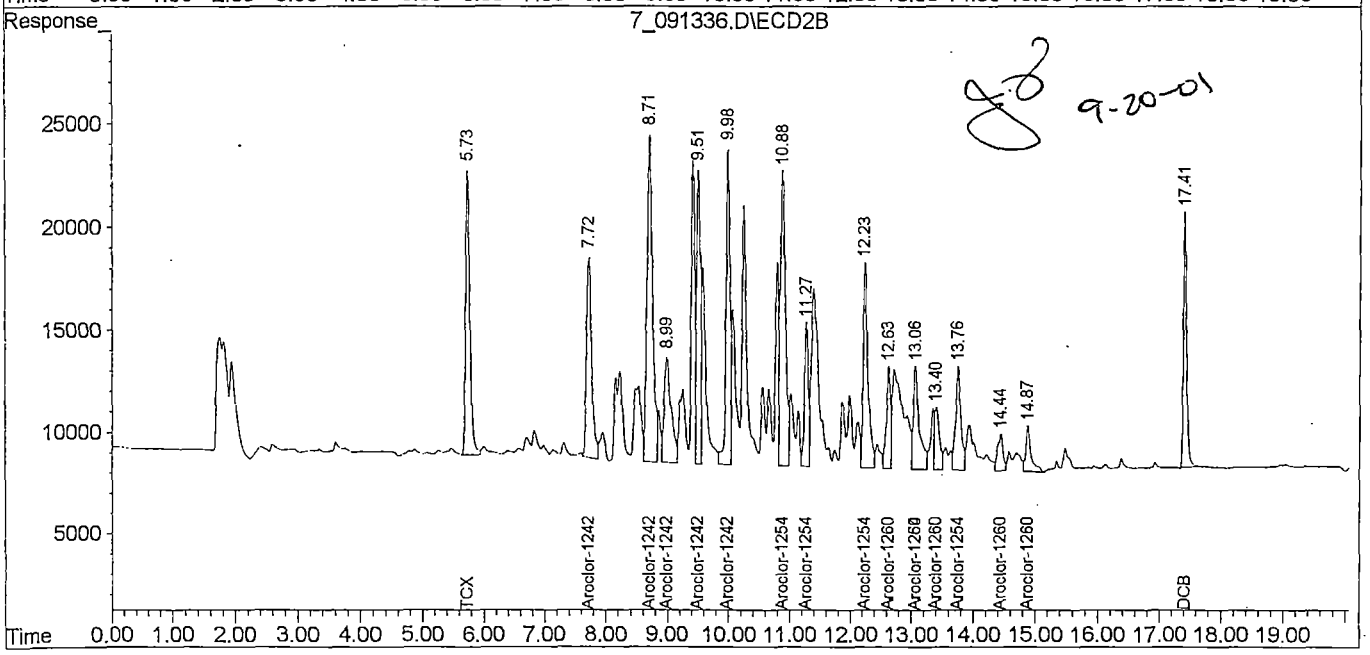
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091336.D\ECD1A.CH Vial: 36
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091336.D\ECD2B.CH
Acq On : 13 Sep 2001 23:44 Operator: SA
Sample : 47292.11 *E02N8 * Inst : HP_07
Misc : *EPA*30.3G/5.0ML*13 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 10:44 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





9-20-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091336.D\ECD1A.CH Vial: 36
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091336.D\ECD2B.CH
Acq On : 13 Sep 2001 23:44 Operator: SA
Sample : 47292.11 *E02N8 * Inst : HP_07
Misc : *EPA*30.3G/5.0ML*13 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 10:44 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

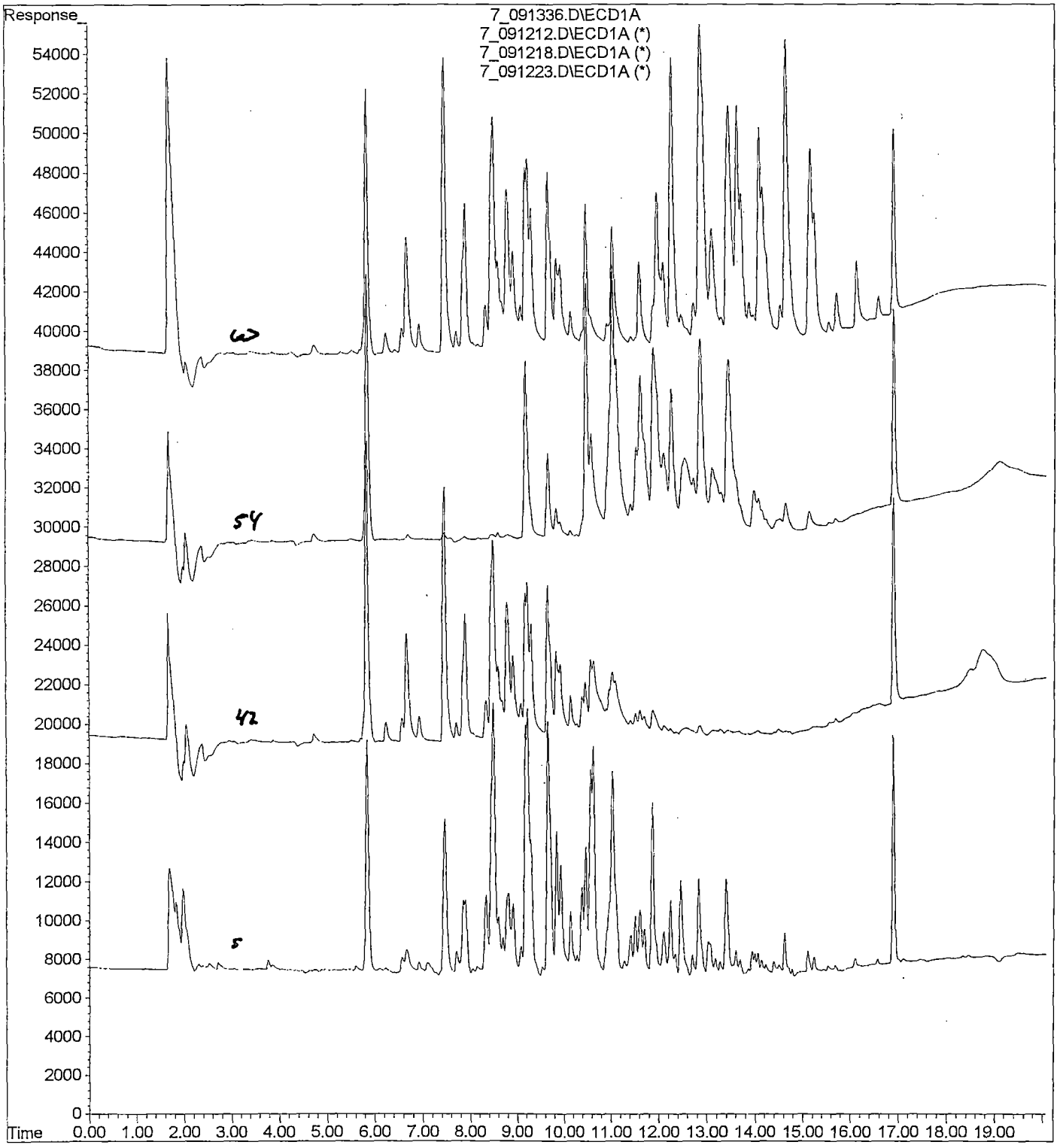
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.73	517862	673011	4.833	4.919	
	Spiked Amount 7.587			Recovery	=	63.70%	64.83%	
22)	S DCB	16.89	17.41	381648	451711	6.845	7.106	
	Spiked Amount 7.587			Recovery	=	90.22%	93.66%	
	Target Compounds:							
7)	L4 Aroclor-1242	7.45	7.72	437307	591374	95.7	96.8	
8)	L4 Aroclor-1242 {2}	8.48	8.71	846061	1022372	154.7	171.7	
9)	L4 Aroclor-1242 {3}	8.79	8.99	255712	418033	87.7	95.3	
10)	L4 Aroclor-1242 {4}	9.21	9.50	499155	623359	235.5m	233.0m	
11)	L4 Aroclor-1242 {5}	9.65	9.98	691473	657527	217.1	265.0	
	Sum Aroclor-1242			2729708	3312665	790.7	861.8	
	Average Aroclor-1242					158.133	172.357	
12)	L6 Aroclor-1254	10.46	10.88	253282	848507	59.2	120.2	#
13)	L6 Aroclor-1254 {2}	11.02	11.27	830079	307449	120.0	54.1	#
14)	L6 Aroclor-1254 {3}	11.86	12.24	401143	545189	57.0	49.1	
15)	L6 Aroclor-1254 {4}	12.82	13.06	247280	343029	46.1	62.3	#
16)	L6 Aroclor-1254 {5}	13.38	13.76	249637	298388	35.1	30.1	
	Sum Aroclor-1254			1981421	2342562	317.4	315.7	
	Average Aroclor-1254					63.472	63.144	
17)	L7 Aroclor-1260	12.23	12.63	161789	235466	26.7	26.4	
18)	L7 Aroclor-1260 {2}	12.82	13.06f	247280	343029	24.7	40.6	#
19)	L7 Aroclor-1260 {3}	13.38	13.40	249637	160158	32.3	21.0	#
20)	L7 Aroclor-1260 {4}	14.06	14.44	38034	112341	11.0	23.5	#
21)	L7 Aroclor-1260 {5}	14.61	14.88f	91383	131117	11.3	15.7	#
	Sum Aroclor-1260			788121	982112	40.2	48.3	
	Average Aroclor-1260					21.193	25.450	

09.1401

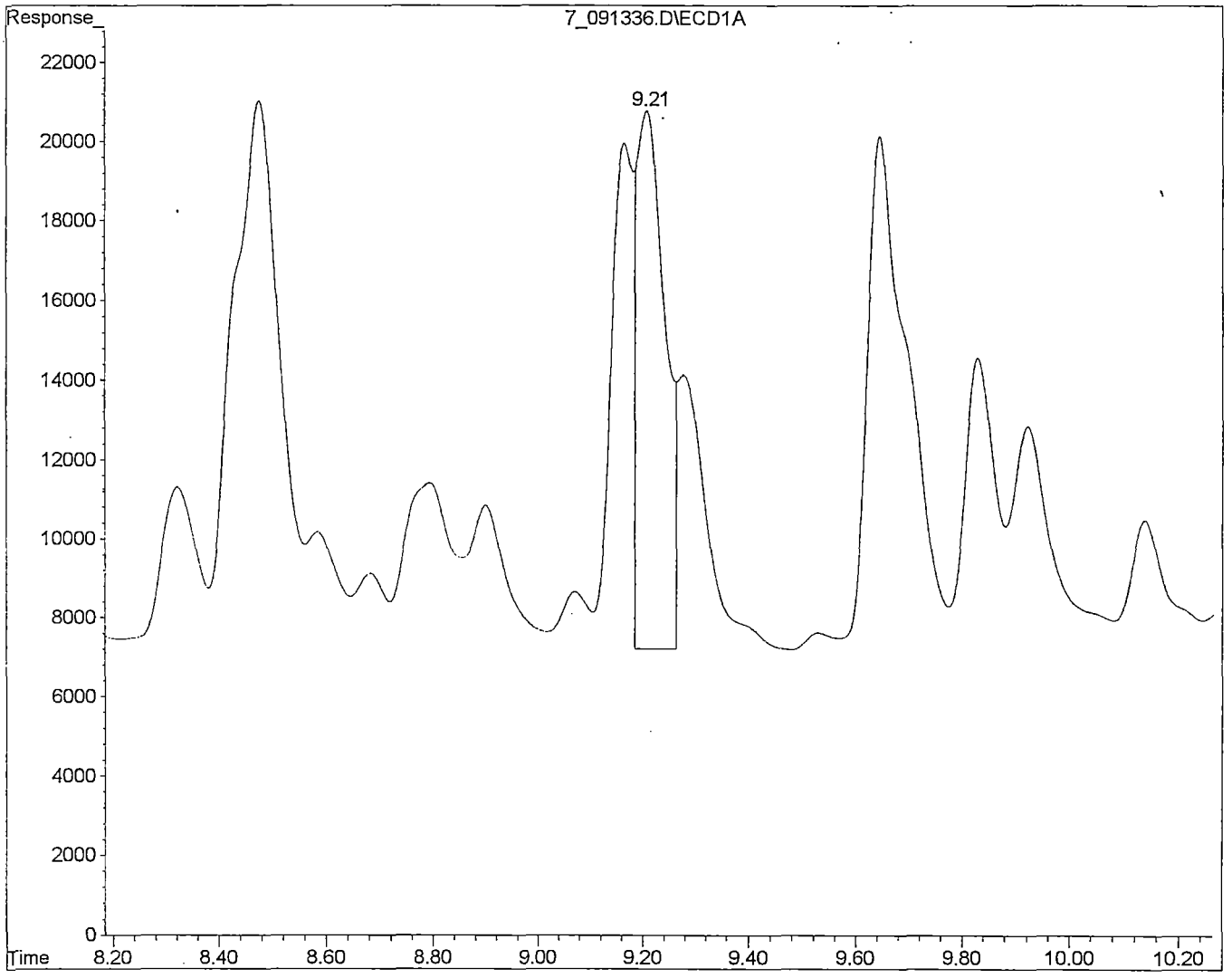
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

File : F:\HPCHEM\HP\7\DATA\09_13_01\7_091336.D
Operator : SA
Acquired : 13 Sep 2001 23:44 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47292.11 *E02N8 *
Misc Info : *EPA*30.3G/5.0ML*13
Vial Number: 36



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091336.D
Date Acquired: 13 Sep 2001 23:44
Inst: HP_07 Operator ID: SA
Name: 47292.11 *E02N8 *
Misc: *EPA*30.3G/5.0ML*13
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:44 2001 Quant Results File: XPCBI12.RES



A 9.14.01

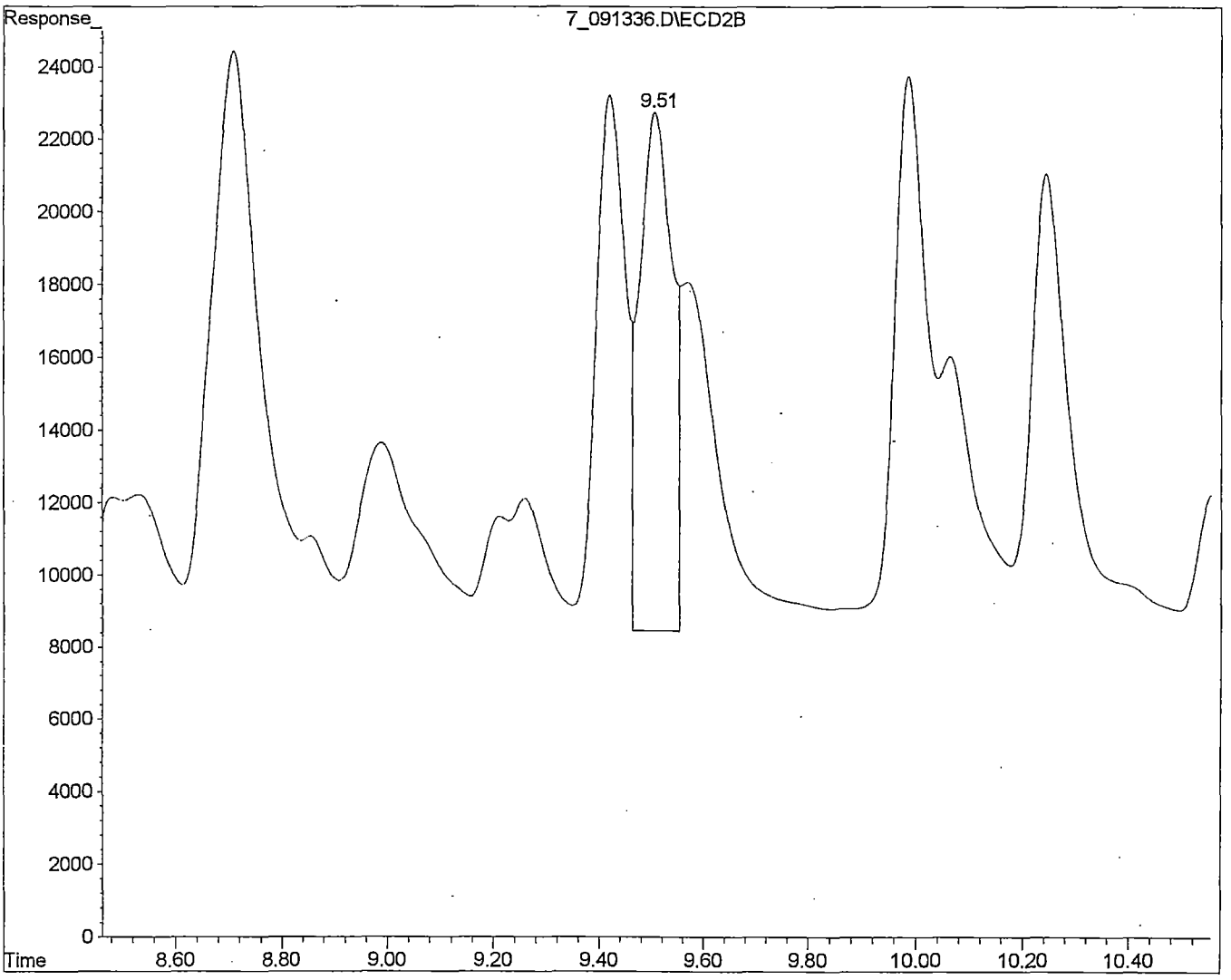
Aroclor-1242 {4} 9.21min area: 499155 m

Integration Time Range: 9.18 - 9.26

F:\HPCHEM\HP\7\DATA\09_13_01\7_091336.D
Report generated: Fri Sep 14 11:34:51 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091336.D
Date Acquired: 13 Sep 2001 23:44
Inst: HP_07 Operator ID: SA
Name: 47292.11 *E02N8 *
Misc: *EPA*30.3G/5.0ML*13
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 10:44 2001 Quant Results File: XPCBI12.RES



SD 9/14/01

Aroclor-1242 {4} #2 9.51min area: 623359 m

Integration Time Range: 9.46 - 9.55

F:\HPCHEM\HP\7\DATA\09_13_01\7_091336.D
Report generated: Fri Sep 14 11:34:52 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02N9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47292.14

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

% Moisture: 13 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: 09/14/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	56	
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	17	J
11096-82-5	Aroclor-1260	37	U
Surrogate amount spiked		7.56	

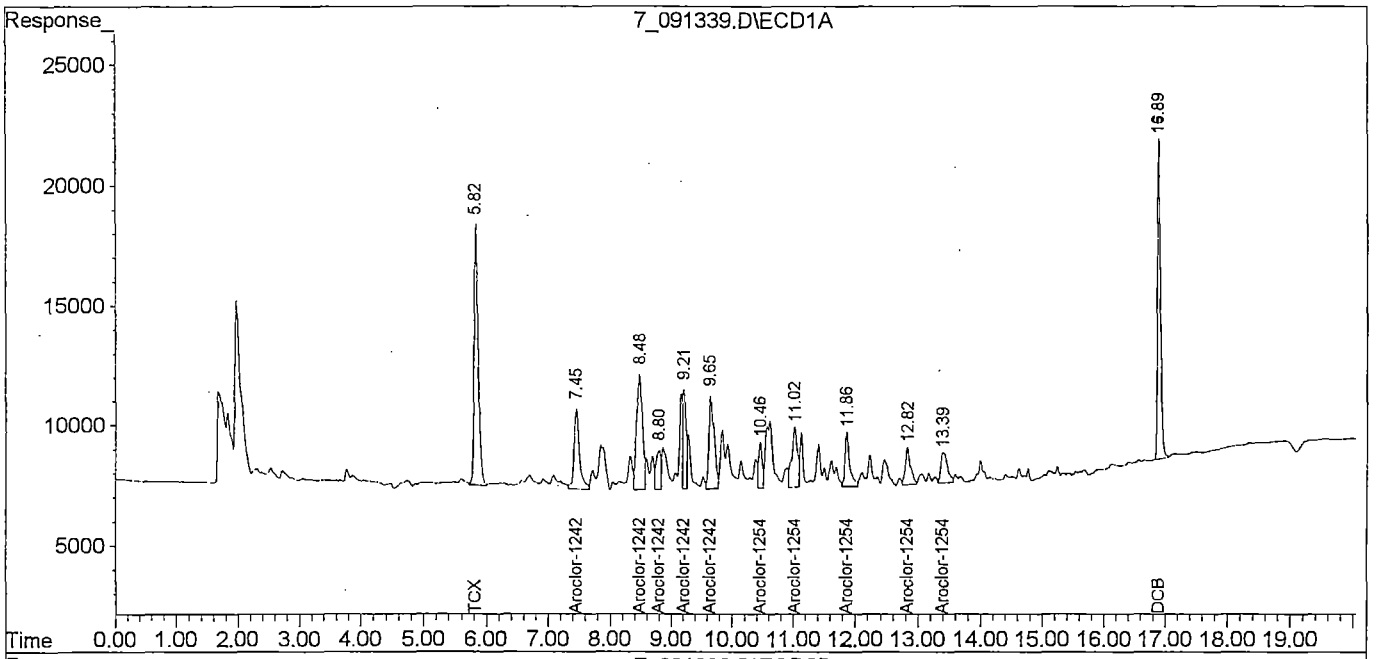
FORM I PCB

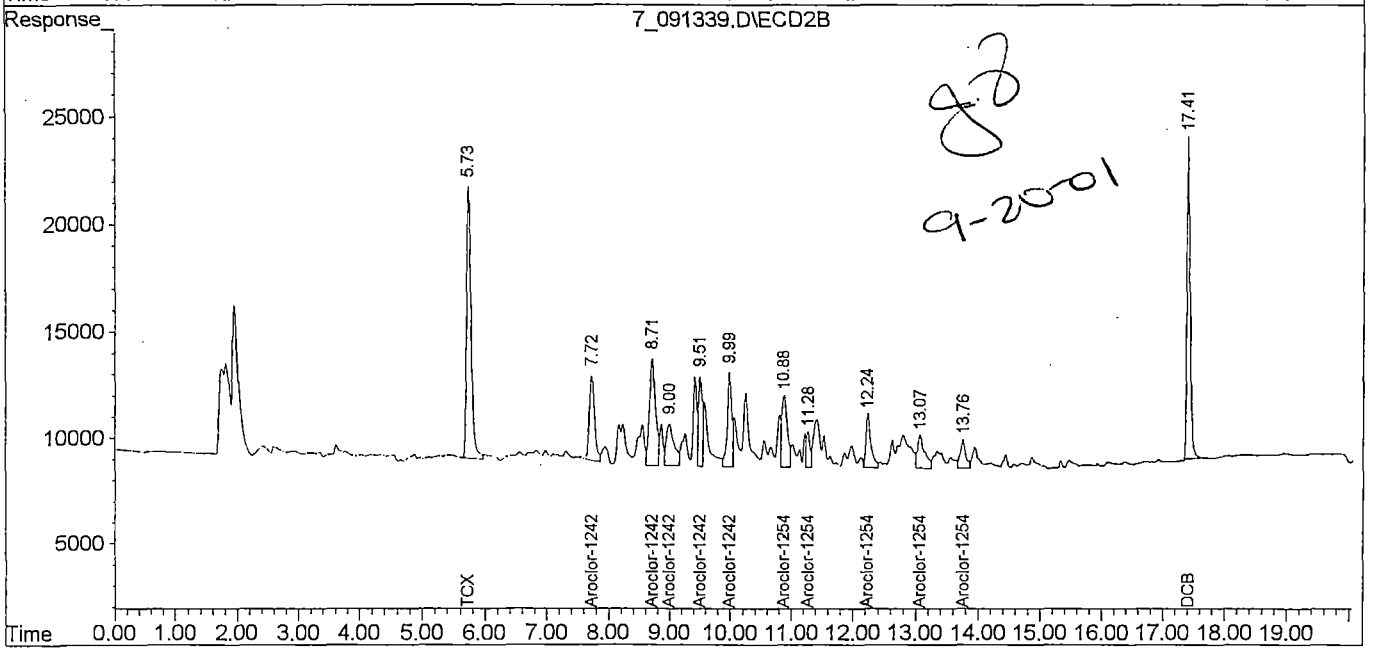
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091339.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091339.D\ECD2B.CH
Acq On : 14 Sep 2001 00:56 Operator: SA
Sample : 47292.14 *E02N9 * Inst : HP_07
Misc : *EPA*30.4G/5.0ML*13 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 11:09 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





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9-20-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091339.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091339.D\ECD2B.CH
Acq On : 14 Sep 2001 00:56 Operator: SA
Sample : 47292.14 *E02N9 * Inst : HP_07
Misc : *EPA*30.4G/5.0ML*13 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 11:09 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

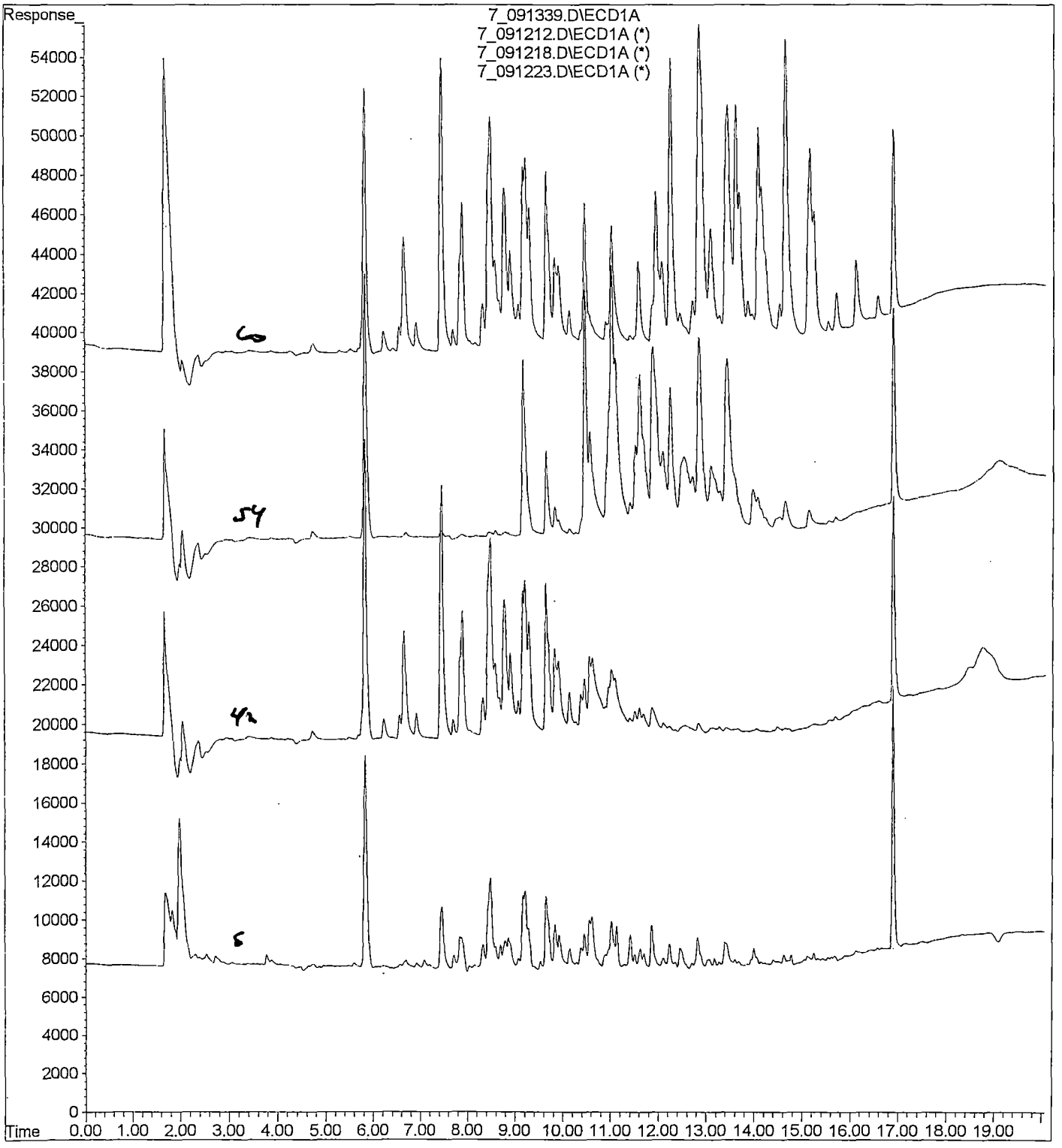
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.83	5.73	488580	648533	4.545	4.724	
	Spiked Amount 7.562			Recovery	=	60.10%	62.47%	
22)	S DCB	16.89	17.41	452356	542898	8.086	8.512	
	Spiked Amount 7.562			Recovery	=	106.93%	112.56%	
	Target Compounds:							
7)	L4 Aroclor-1242	7.45	7.72	200737	240432	43.8	39.2	
8)	L4 Aroclor-1242 {2}	8.48	8.71	322319	353835	58.7	59.2	
9)	L4 Aroclor-1242 {3}	8.80	9.00	82796	183165	28.3	41.6	#
10)	L4 Aroclor-1242 {4}	9.21	9.51	162608	178082	76.5	66.3m	
11)	L4 Aroclor-1242 {5}	9.65	9.99	224719	207586	70.3	83.4	
	Sum Aroclor-1242			993177	1163100	277.6	289.8	
	Average Aroclor-1242					55.521	57.961	
12)	L6 Aroclor-1254	10.46	10.88	79641	220416	18.6	31.1	#
13)	L6 Aroclor-1254 {2}	11.02	11.28	161807	66152	23.3	11.6	#
14)	L6 Aroclor-1254 {3}	11.86	12.24	116865	141246	16.6	12.7	
15)	L6 Aroclor-1254 {4}	12.82	13.07	91170	124931	16.9	22.6	#
16)	L6 Aroclor-1254 {5}	13.39	13.76	92675	82757	13.0	8.322	#
	Sum Aroclor-1254			542157	635502	88.3	86.3	
	Average Aroclor-1254					17.667	17.263	

09.14-1

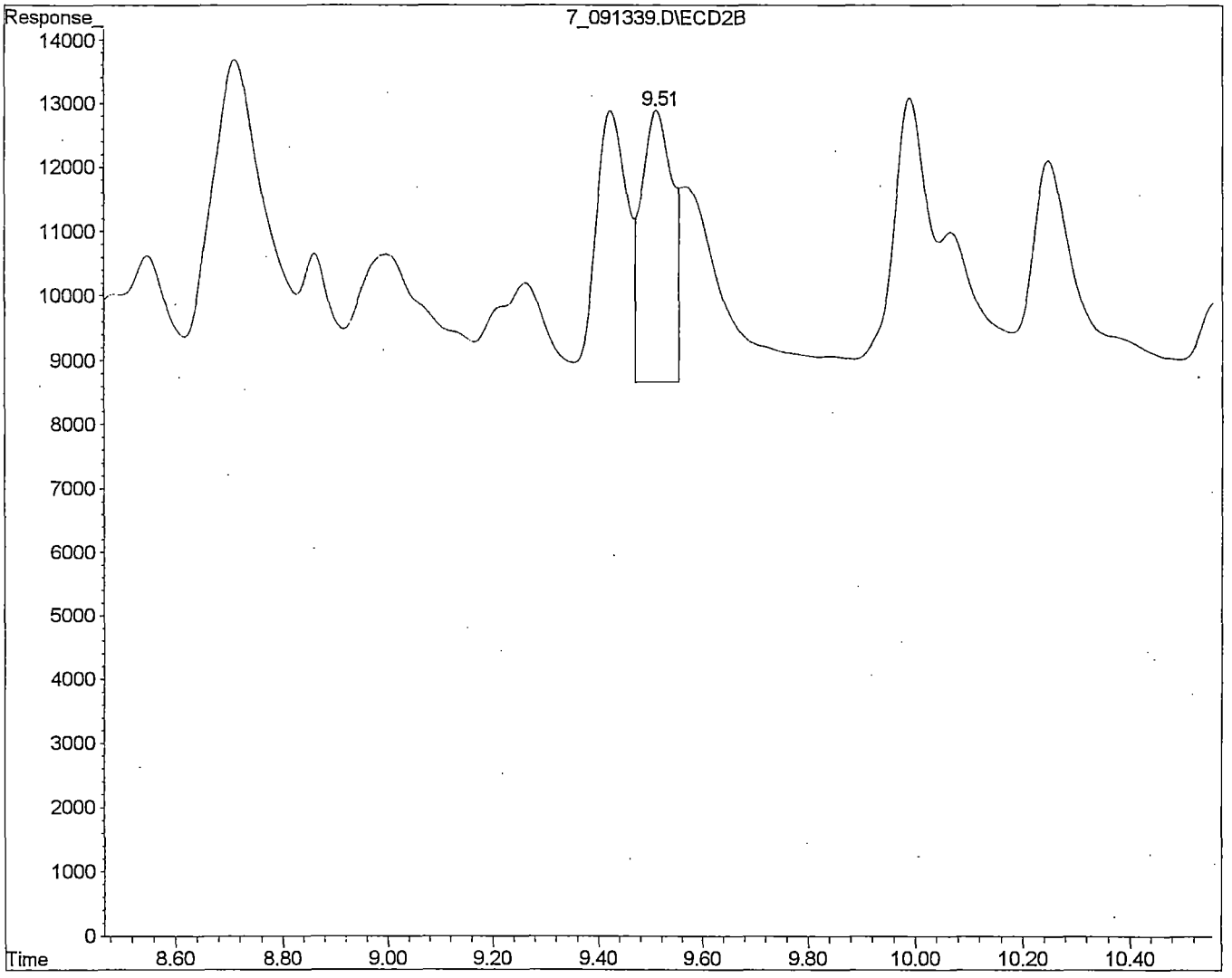
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

File : F:\HPCHEM\HP\7\DATA\09_13_01\7_091339.D
Operator : SA
Acquired : 14 Sep 2001 00:56 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47292.14 *E02N9 *
Misc Info : *EPA*30.4G/5.0ML*13
Vial Number: 39



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091339.D
Date Acquired: 14 Sep 2001 00:56
Inst: HP_07 Operator ID: SA
Name: 47292.14 *E02N9 *
Misc: *EPA*30.4G/5.0ML*13
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 11:09 2001 Quant Results File: XPCBI12.RES



Aroclor-1242 {4} #2 9.51min area: 178082 m

Integration Time Range: 9.47 - 9.55

F:\HPCHEM\HP\7\DATA\09_13_01\7_091339.D
Report generated: Fri Sep 14 11:34:58 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02P0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47292.15

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

% Moisture: 11 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: 09/14/01

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	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	190	
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	48	
11096-82-5	Aroclor-1260	37	U
	Surrogate amount spiked	7.42	

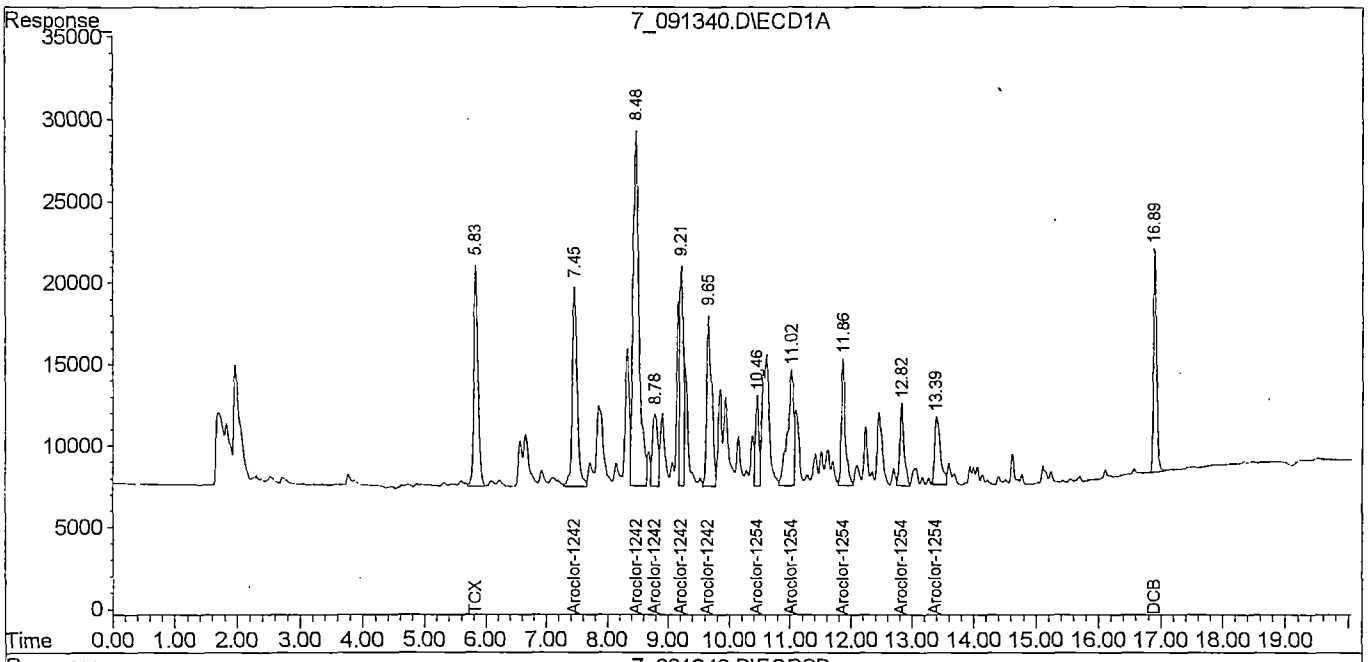
FORM I PCB

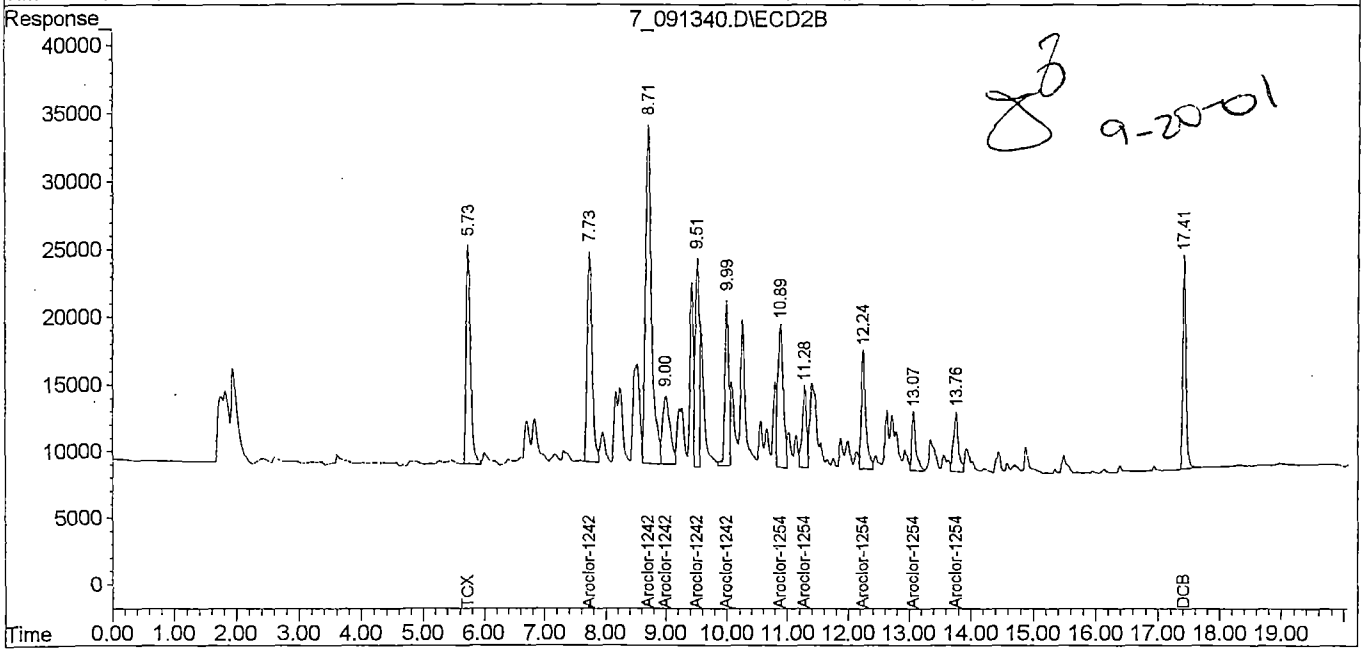
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091340.D\ECD1A.CH Vial: 40
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091340.D\ECD2B.CH
Acq On : 14 Sep 2001 1:20 Operator: SA
Sample : 47292.15 *E02P0 * Inst : HP_07
Misc : *EPA*30.3G/5.0ML*11 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 11:12 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





9-20-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091340.D\ECD1A.CH Vial: 40
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091340.D\ECD2B.CH
Acq On : 14 Sep 2001 1:20 Operator: SA
Sample : 47292.15 *E02P0 * Inst : HP_07
Misc : *EPA*30.3G/5.0ML*11 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 11:12 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

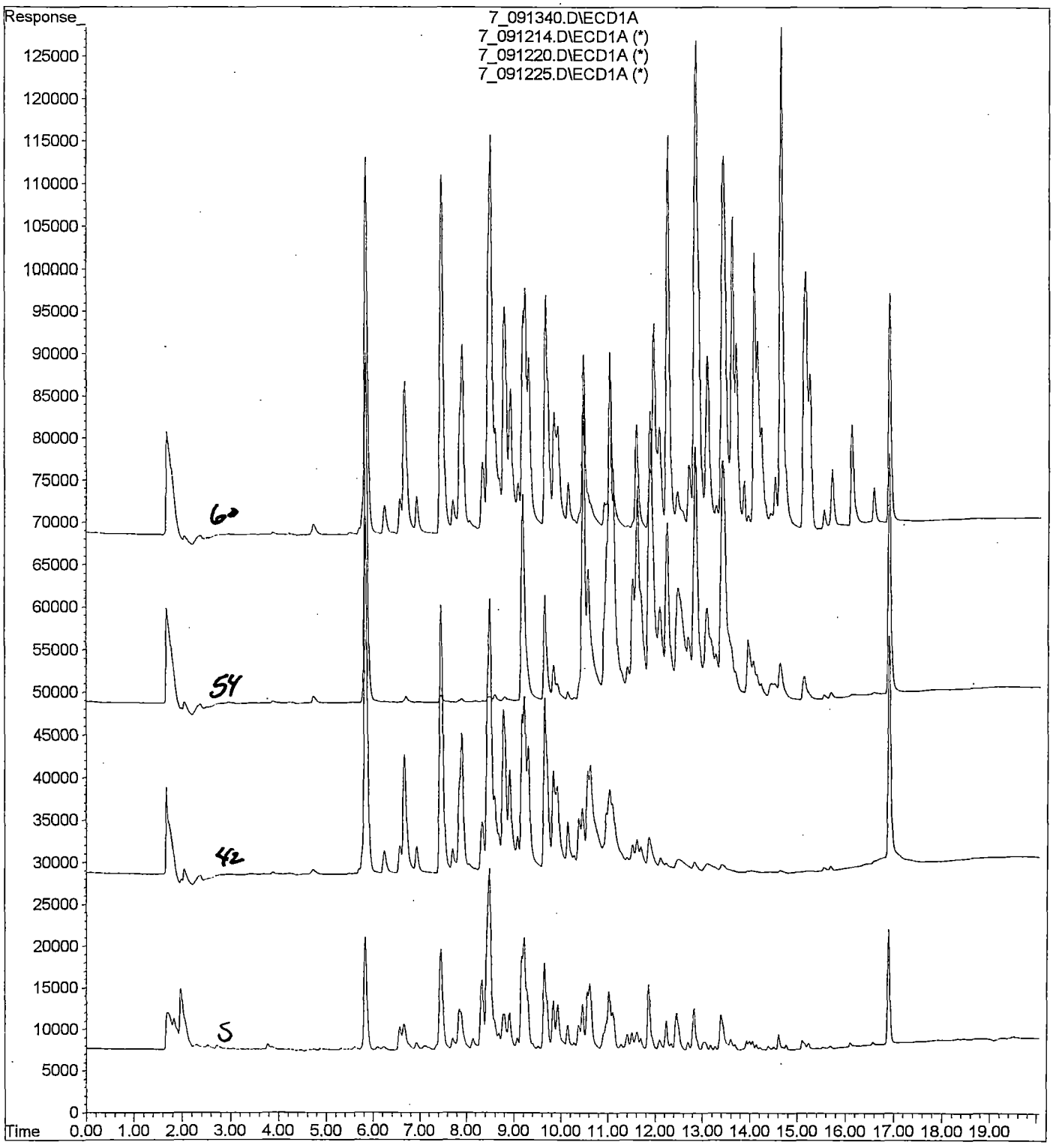
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.83	5.73	620066	821845	5.657	5.872	
	Spiked Amount 7.416			Recovery	=	76.28%	79.18%	
22)	S DCB	16.89	17.41	463946	562210	8.134	8.645	
	Spiked Amount 7.416			Recovery	=	109.67%	116.56%	
	Target Compounds:							
7)	L4 Aroclor-1242	7.45	7.73	691517	909412	147.9	145.6	
8)	L4 Aroclor-1242 {2}	8.48	8.71	1515299	1737876	270.9	285.2	
9)	L4 Aroclor-1242 {3}	8.78	9.00	264258	437835	88.6	97.6	
10)	L4 Aroclor-1242 {4}	9.22	9.51	549321	678923	253.3m	248.1m	
11)	L4 Aroclor-1242 {5}	9.65	9.99	579628	520387	177.9	205.0	
	Sum Aroclor-1242			3600022	4284432	938.6	981.5	
	Average Aroclor-1242					187.716	196.292	
12)	L6 Aroclor-1254	10.46	10.89	222985	652836	50.9	90.4	#
13)	L6 Aroclor-1254 {2}	11.02	11.28	467643	290975	66.1	50.0	
14)	L6 Aroclor-1254 {3}	11.86	12.24	351447	448073	48.8	39.4	
15)	L6 Aroclor-1254 {4}	12.82	13.07	238314	215398	43.4	38.2	
16)	L6 Aroclor-1254 {5}	13.39	13.76	270099	245768	37.1	24.2	#
	Sum Aroclor-1254			1550489	1853049	246.4	242.3	
	Average Aroclor-1254					49.273	48.463	

09-14-01

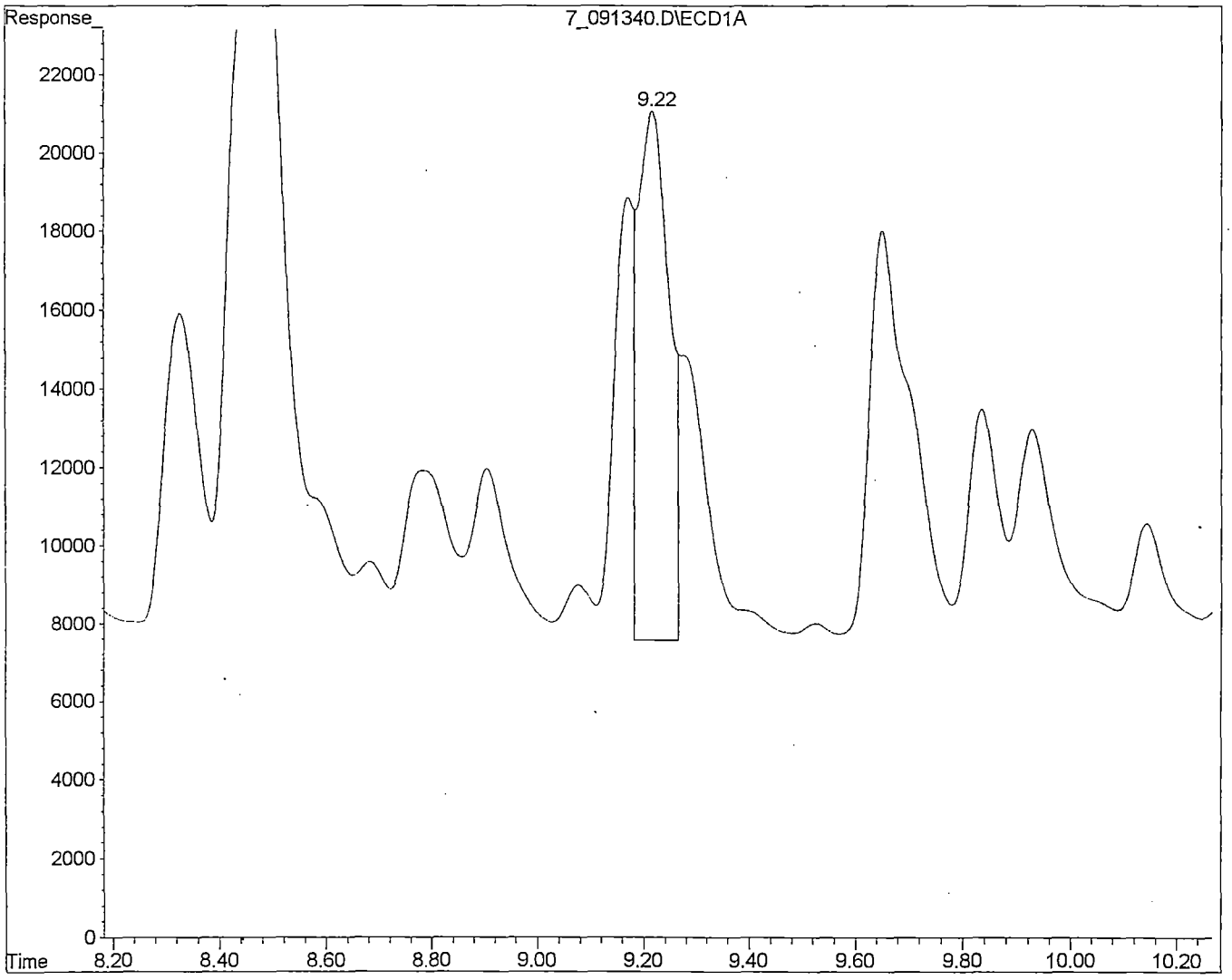
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

File : F:\HPCHEM\HP\7\DATA\09_13_01\7_091340.D
Operator : SA
Acquired : 14 Sep 2001 1:20 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47292.15 *E02P0 *
Misc Info : *EPA*30.3G/5.0ML*11
Vial Number: 40



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091340.D
Date Acquired: 14 Sep 2001 1:20
Inst: HP_07 Operator ID: SA
Name: 47292.15 *E02P0 *
Misc: *EPA*30.3G/5.0ML*11
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 11:12 2001 Quant Results File: XPCBI12.RES



9.14.01

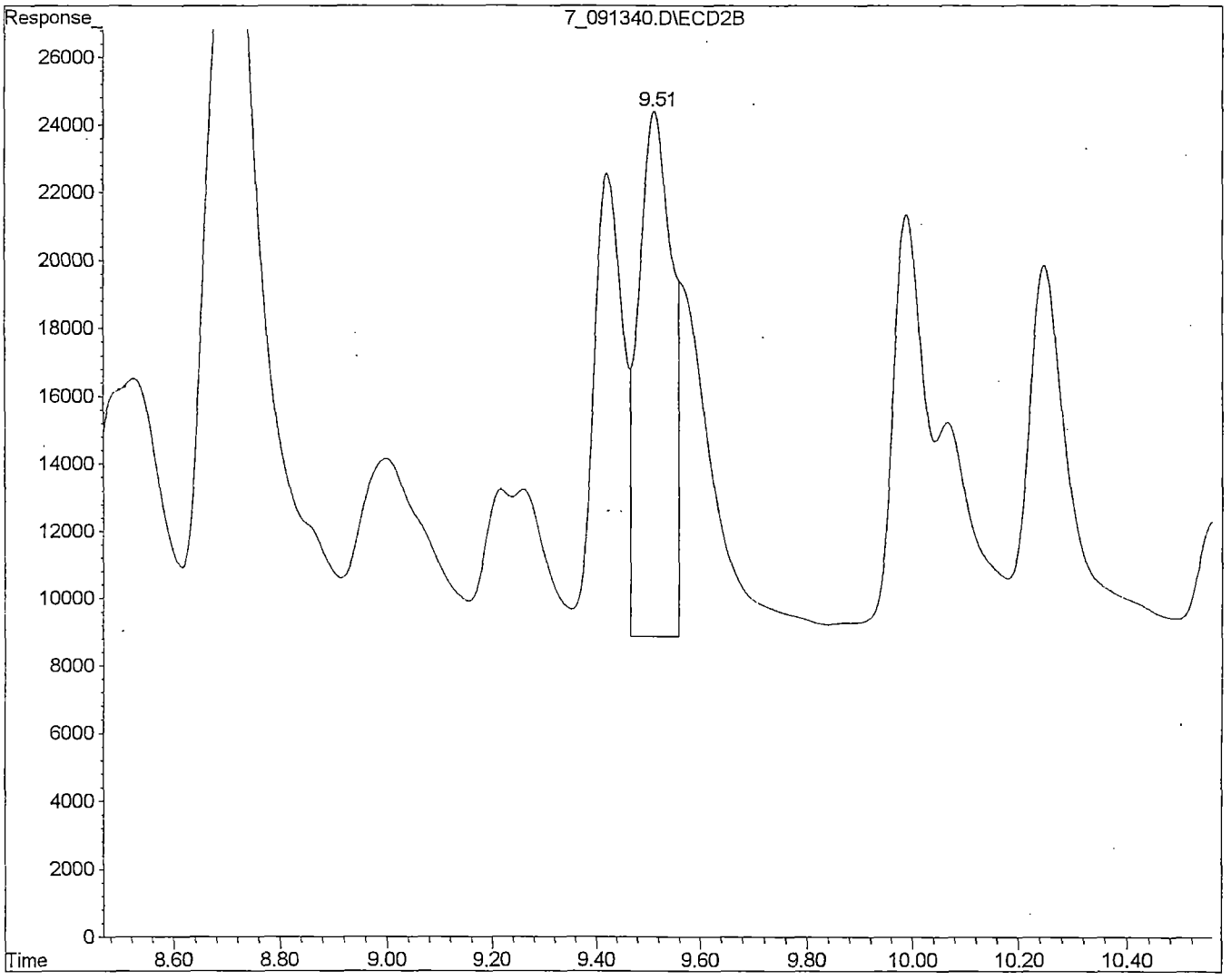
Aroclor-1242 {4} 9.22min area: 549321 m

Integration Time Range: 9.18 - 9.27

F:\HPCHEM\HP\7\DATA\09_13_01\7_091340.D
Report generated: Fri Sep 14 11:35:00 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091340.D
Date Acquired: 14 Sep 2001 1:20
Inst: HP_07 Operator ID: SA
Name: 47292.15 *E02P0 *
Misc: *EPA*30.3G/5.0ML*11
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 11:12 2001 Quant Results File: XPCBI12.RES



AS.14.01

Aroclor-1242 {4} #2 9.51min area: 678923 m

Integration Time Range: 9.47 - 9.56

F:\HPCHEM\HP\7\DATA\09_13_01\7_091340.D
Report generated: Fri Sep 14 11:35:01 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02P1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47292.16

Sample wt/vol: 30.4 (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: 09/14/01

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	49	
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	18	JP
11096-82-5	Aroclor-1260	9.2	J
	Surrogate amount spiked	7.74	

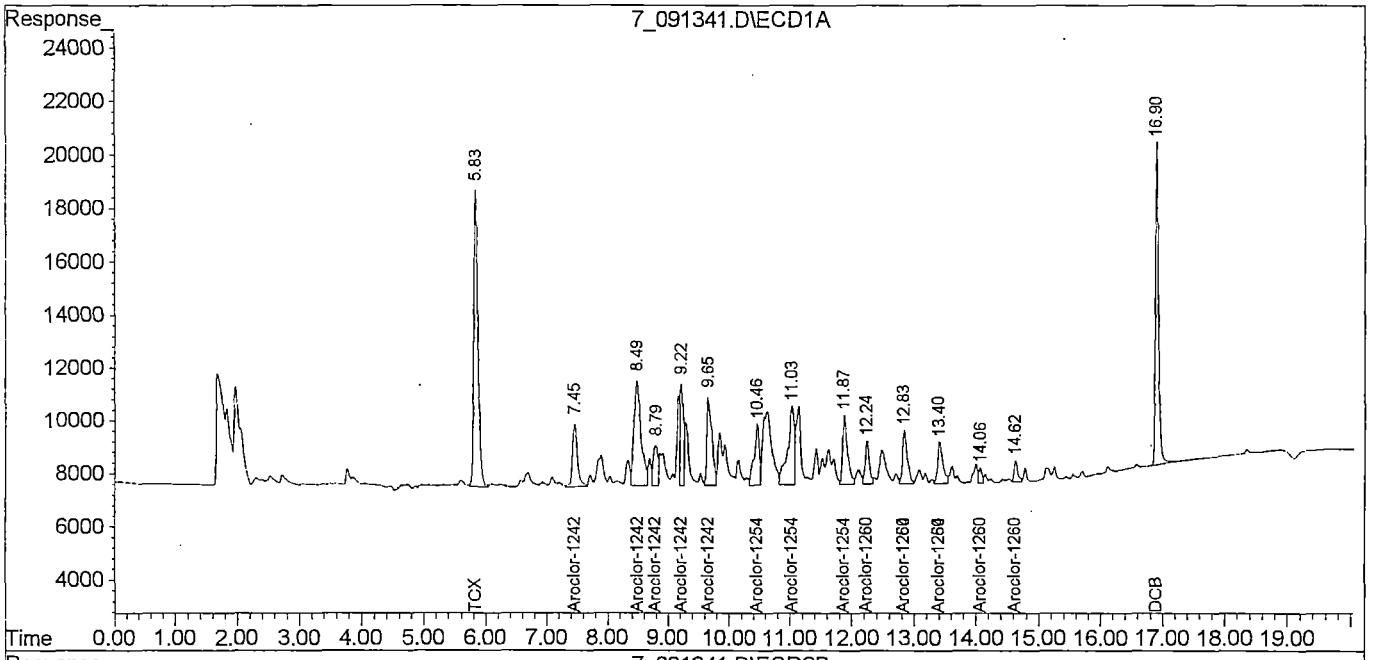
FORM I PCB

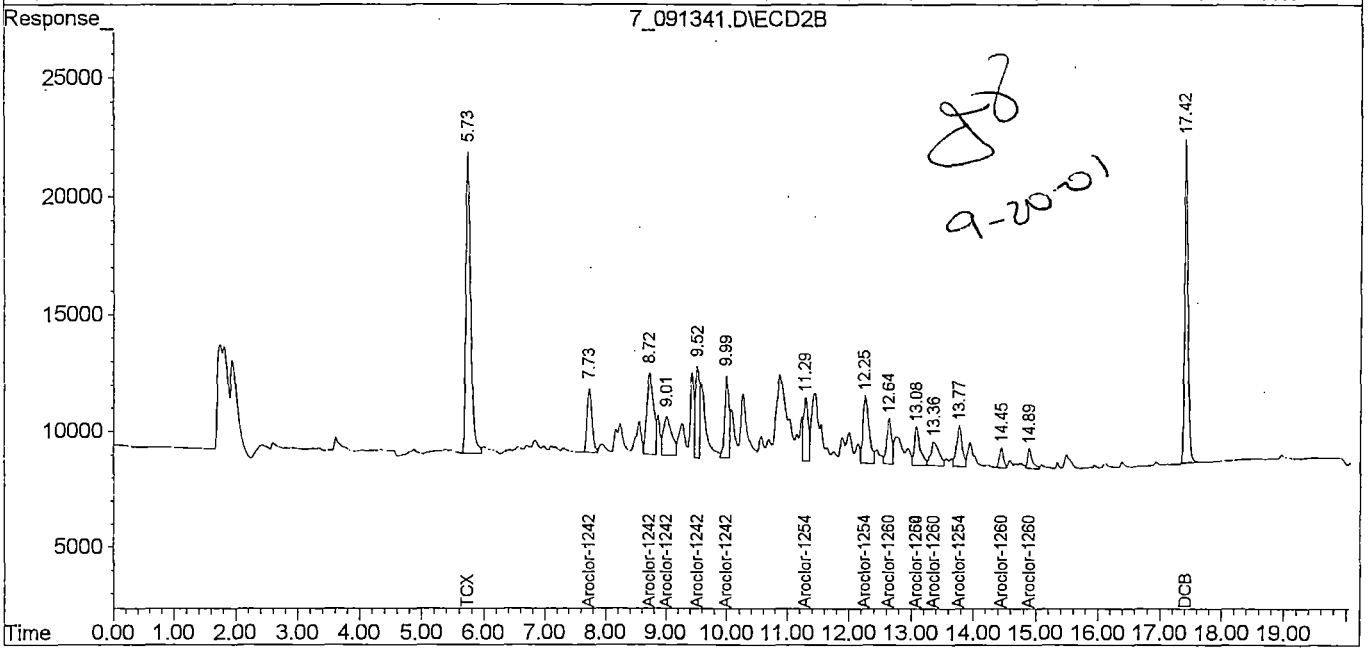
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091341.D\ECD1A.CH Vial: 41
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091341.D\ECD2B.CH
Acq On : 14 Sep 2001 1:44 Operator: SA
Sample : 47292.16 *E02P1 * Inst : HP_07
Misc : *EPA*30.4G/5.0ML*15 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 11:14 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





9-20-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091341.D\ECD1A.CH Vial: 41
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091341.D\ECD2B.CH
Acq On : 14 Sep 2001 1:44 Operator: SA
Sample : 47292.16 *E02P1 * Inst : HP_07
Misc : *EPA*30.4G/5.0ML*15 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 11:14 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

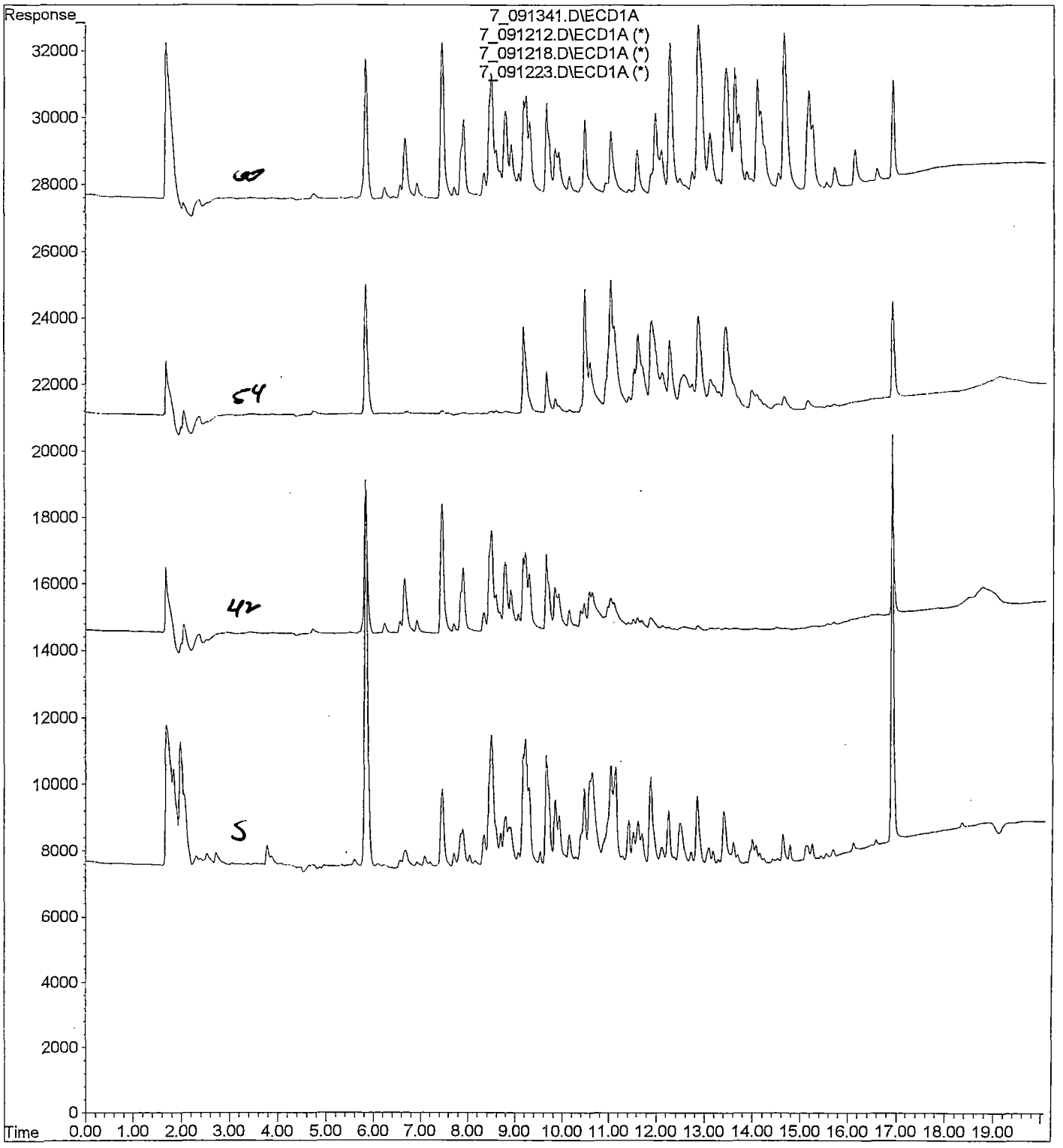
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	524075	686797	4.990	5.121
	Spiked Amount 7.740			Recovery	=	64.47%	66.16%
22)	S DCB	16.90	17.42	424205	504666	7.761	8.099
	Spiked Amount 7.740			Recovery	=	100.27%	104.64%
	Target Compounds:						
7)	L4 Aroclor-1242	7.45	7.73	133150	157590	29.7	26.3
8)	L4 Aroclor-1242 {2}	8.49	8.72	317787	271055	59.3	46.4
9)	L4 Aroclor-1242 {3}	8.79	9.01	80549	163842	28.2	38.1 #
10)	L4 Aroclor-1242 {4}	9.22	9.52	146419	172561	70.5m	65.8m
11)	L4 Aroclor-1242 {5}	9.65	10.00	195913	169383	62.7	69.6
	Sum Aroclor-1242			873818	934431	250.4	246.3
	Average Aroclor-1242					50.080	49.260
12)	L6 Aroclor-1254	10.46	0.00	134305	0	32.0	N.D. d #
13)	L6 Aroclor-1254 {2}	11.03	11.29	211952	138160	31.3	24.8
14)	L6 Aroclor-1254 {3}	11.87	12.25	151134	198083	21.9	18.2
15)	L6 Aroclor-1254 {4}	12.83	13.08	108464	105090	20.6	19.5
16)	L6 Aroclor-1254 {5}	13.40	13.77	94849	110891	13.6	11.4
	Sum Aroclor-1254			700704	552224	119.4	73.9
	Average Aroclor-1254					23.882	18.466
17)	L7 Aroclor-1260	12.24	12.64	73971	101456	12.4	11.6
18)	L7 Aroclor-1260 {2}	12.83	13.08	108464	105090	11.0	12.7
19)	L7 Aroclor-1260 {3}	13.40	13.36f	94849	91484	12.5	12.2
20)	L7 Aroclor-1260 {4}	14.06	14.45	19282	38730	5.697	8.249 #
21)	L7 Aroclor-1260 {5}	14.62	14.89	33017	43597	4.167	5.328 #
	Sum Aroclor-1260			329584	380357	17.8	19.4
	Average Aroclor-1260					9.173	10.028

09-14-01

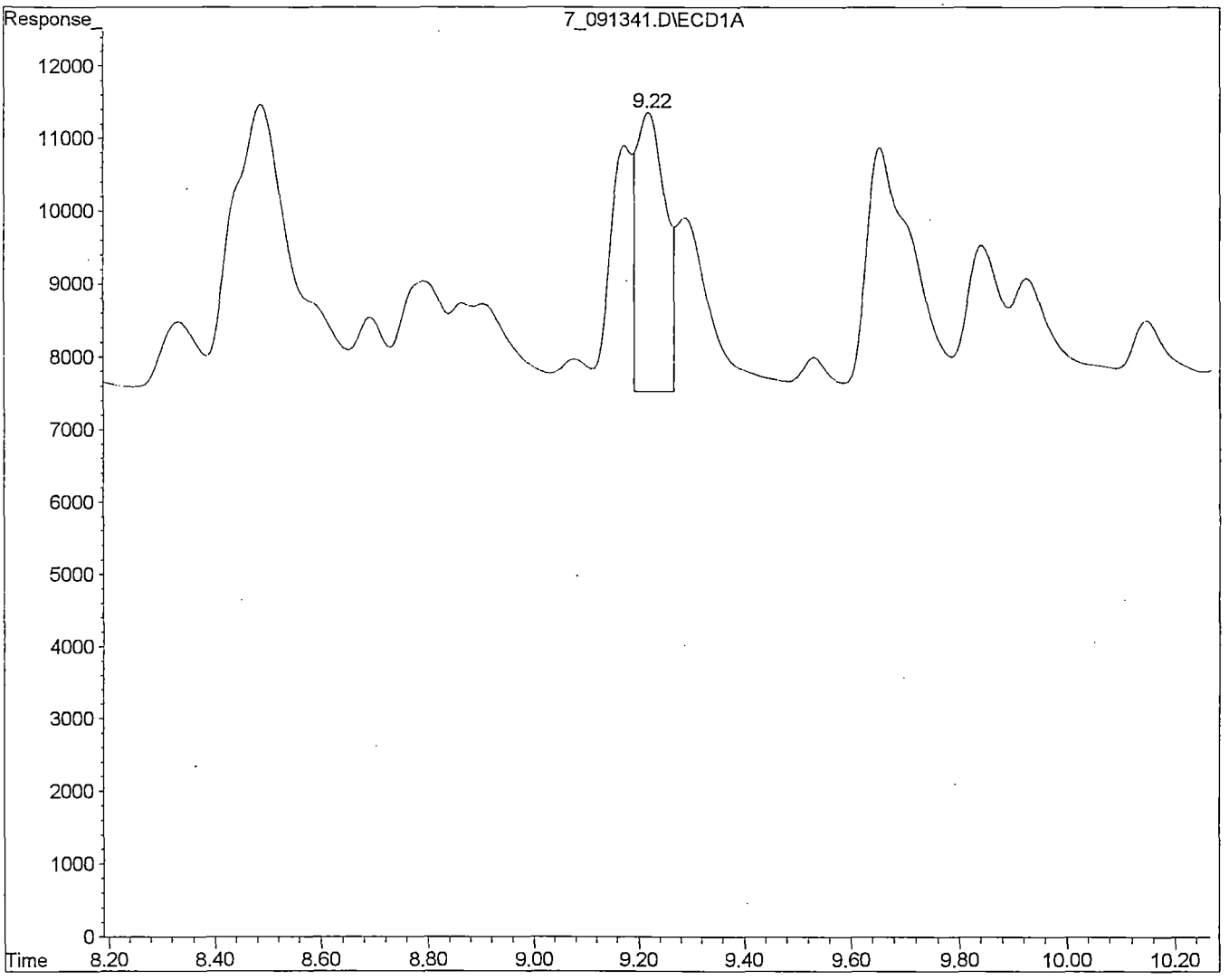
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

File : F:\HPCHEM\HP\7\DATA\09_13_01\7_091341.D
Operator : SA
Acquired : 14 Sep 2001 1:44 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47292.16 *E02P1 *
Misc Info : *EPA*30.4G/5.0ML*15
Vial Number: 41



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091341.D
Date Acquired: 14 Sep 2001 1:44
Inst: HP_07 Operator ID: SA
Name: 47292.16 *E02P1 *
Misc: *EPA*30.4G/5.0ML*15
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 11:14 2001 Quant Results File: XPCBI12.RES



CA 9-14-01

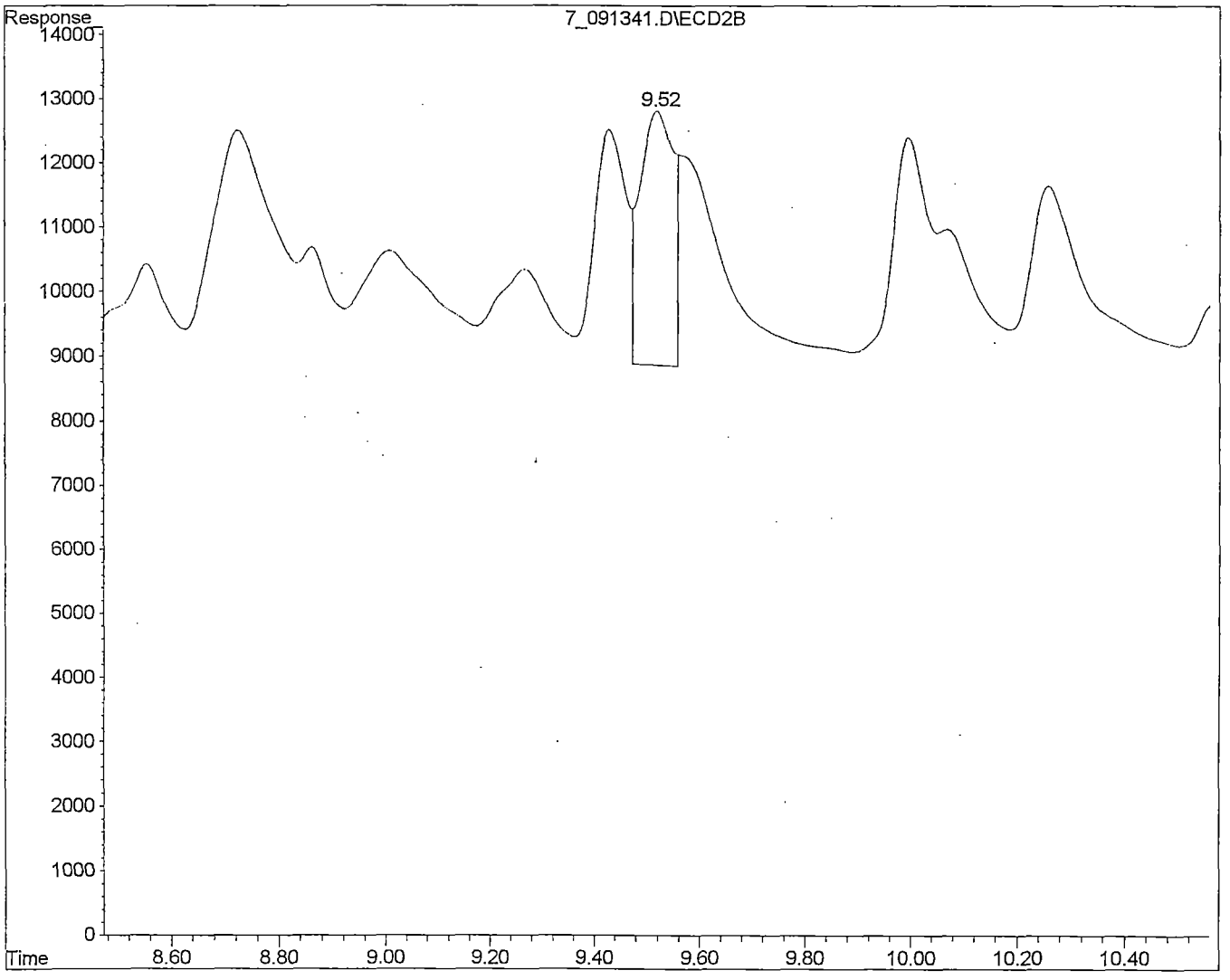
Aroclor-1242 {4} 9.22min area: 146419 m

Integration Time Range: 9.19 - 9.27

F:\HPCHEM\HP\7\DATA\09_13_01\7_091341.D
Report generated: Fri Sep 14 11:35:02 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091341.D
Date Acquired: 14 Sep 2001 1:44
Inst: HP_07 Operator ID: SA
Name: 47292.16 *E02P1 *
Misc: *EPA*30.4G/5.0ML*15
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 11:14 2001 Quant Results File: XPCBI12.RES



09.14.01

Aroclor-1242 {4} #2 9.52min area: 172561 m

Integration Time Range: 9.47 - 9.56

F:\HPCHEM\HP\7\DATA\09_13_01\7_091341.D
Report generated: Fri Sep 14 11:35:03 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02P2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47292.17

Sample wt/vol: 30.3 (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: 09/14/01

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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	47	
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	19	JP
11096-82-5	Aroclor-1260	7.1	J
Surrogate amount spiked		7.77	

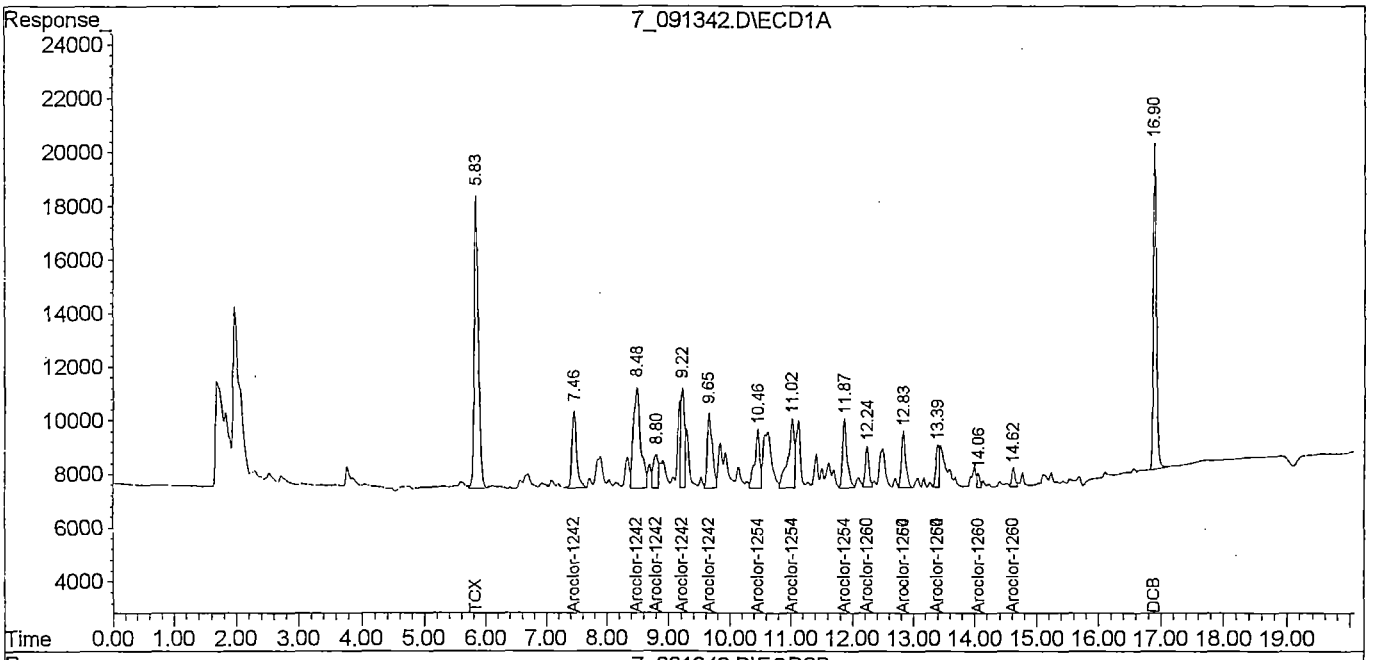
FORM I PCB

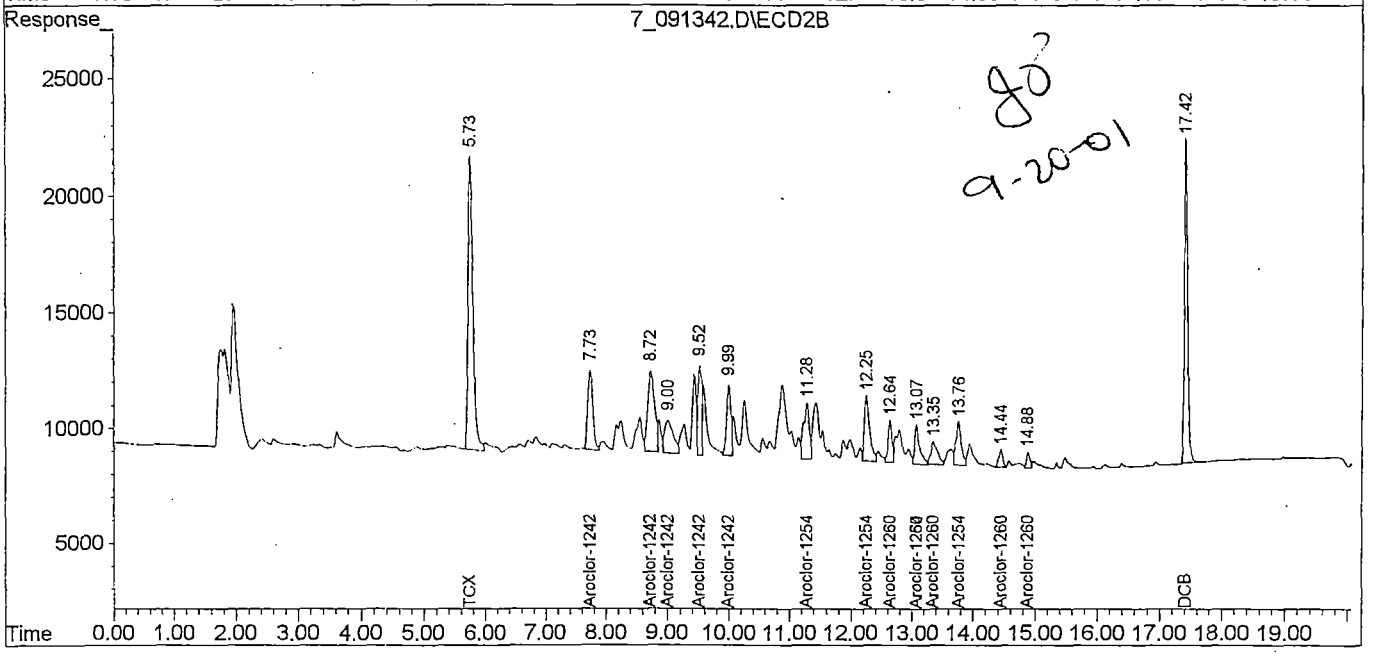
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091342.D\ECD1A.CH Vial: 42
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091342.D\ECD2B.CH
Acq On : 14 Sep 2001 2:08 Operator: SA
Sample : 47292.17 *E02P2 * Inst : HP_07
Misc : *EPA*30.3G/5.0ML*15 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 11:19 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





gb
9-20-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091342.D\ECD1A.CH Vial: 42
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091342.D\ECD2B.CH
Acq On : 14 Sep 2001 2:08 Operator: SA
Sample : 47292.17 *E02P2 * Inst : HP_07
Misc : *EPA*30.3G/5.0ML*15 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 11:19 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

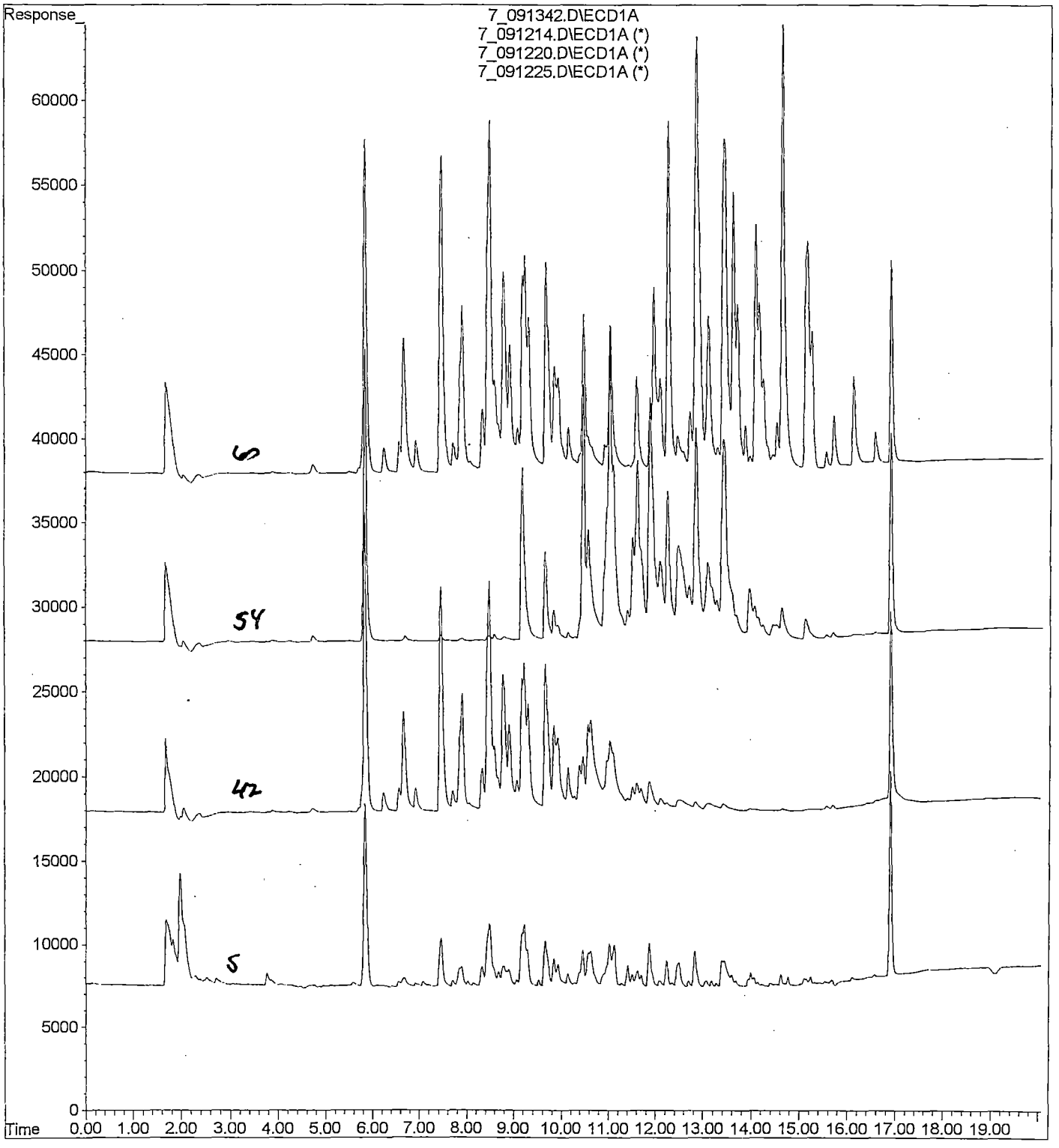
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	539676	717652	5.156	5.369
	Spiked Amount 7.765			Recovery	=	66.40%	69.14%
22)	S DCB	16.90	17.42	415352	499360	7.625	8.040
	Spiked Amount 7.765			Recovery	=	98.19%	103.54%
	Target Compounds:						
7)	L4 Aroclor-1242	7.46	7.73	163417	197528	36.6	33.1
8)	L4 Aroclor-1242 {2}	8.48	8.72	309104	276346	57.9	47.5
9)	L4 Aroclor-1242 {3}	8.80	9.00	68278	139545	24.0	32.6 #
10)	L4 Aroclor-1242 {4}	9.22	9.52	146523	164678	70.7m	63.0m
11)	L4 Aroclor-1242 {5}	9.65	9.99	162504	141329	52.2	58.3
	Sum Aroclor-1242			849825	919426	241.4	234.5
	Average Aroclor-1242					48.278	46.892
12)	L6 Aroclor-1254	10.46	0.00	122042	0	29.2	N.D. d #
13)	L6 Aroclor-1254 {2}	11.02	11.28	176910	158136	26.2	28.5
14)	L6 Aroclor-1254 {3}	11.87	12.25	129419	168894	18.8	15.6
15)	L6 Aroclor-1254 {4}	12.83	13.07	100991	96299	19.3	17.9
16)	L6 Aroclor-1254 {5}	13.39	13.76	178972	118545	25.7m	12.2 #
	Sum Aroclor-1254			708335	541874	119.2	74.2
	Average Aroclor-1254					23.840	18.543
17)	L7 Aroclor-1260	12.24	12.64	63802	81517	10.8	9.371
18)	L7 Aroclor-1260 {2}	12.83	13.07	100991	96299	10.3	11.7
19)	L7 Aroclor-1260 {3}	13.40	13.35f	47011	73788	6.220	9.899m #
20)	L7 Aroclor-1260 {4}	14.06	14.44	17243	33632	5.111	7.187 #
21)	L7 Aroclor-1260 {5}	14.62	14.88	25587	27144	3.240	3.329
	Sum Aroclor-1260			254634	312379	13.8	16.1
	Average Aroclor-1260					7.133	8.293

ds 9-14-x

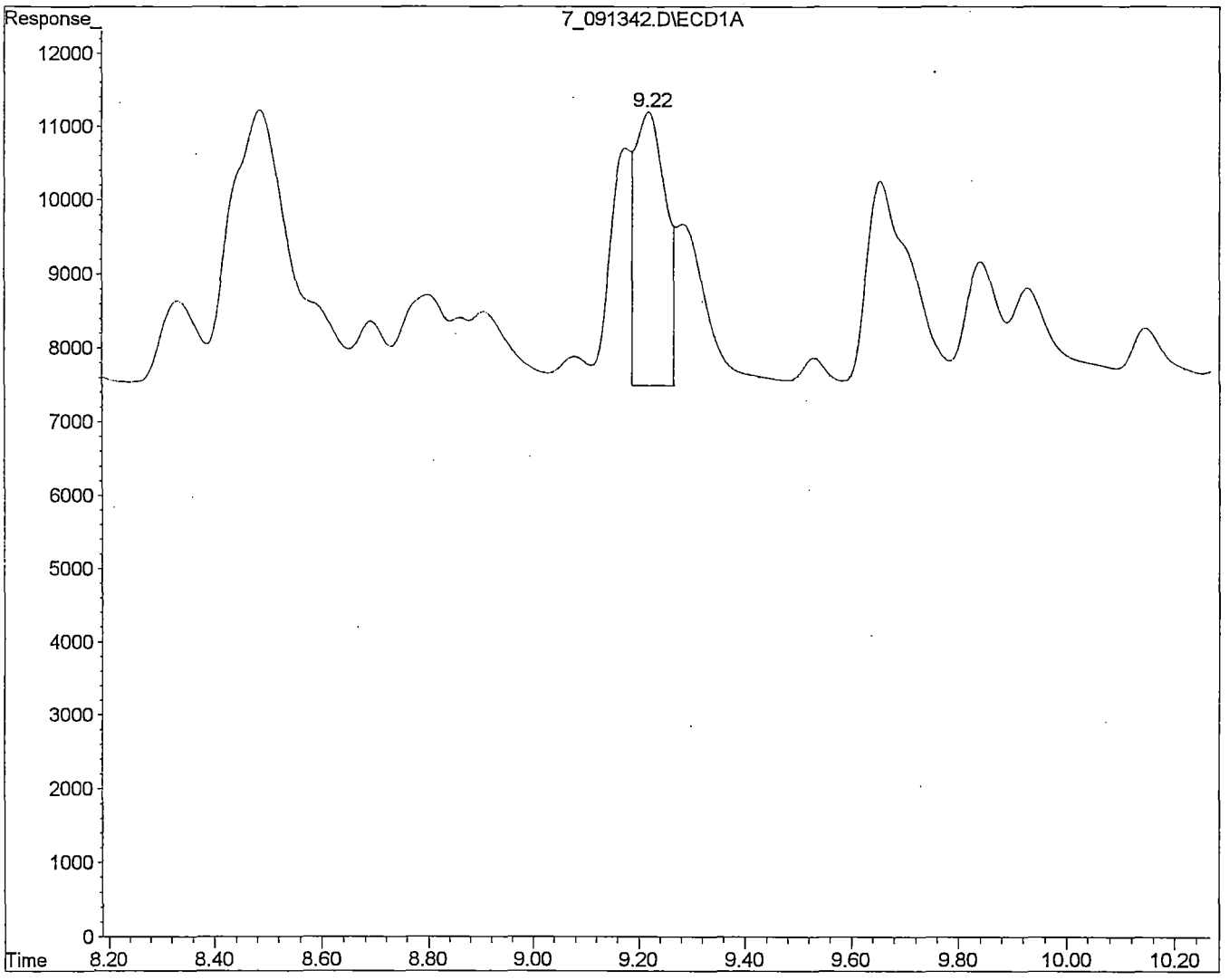
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

File : F:\HPCHEM\HP\7\DATA\09_13_01\7_091342.D
Operator : SA
Acquired : 14 Sep 2001 2:08 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47292.17 *E02P2 *
Misc Info : *EPA*30.3G/5.0ML*15
Vial Number: 42



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091342.D
Date Acquired: 14 Sep 2001 2:08
Inst: HP_07 Operator ID: SA
Name: 47292.17 *E02P2 *
Misc: *EPA*30.3G/5.0ML*15
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 11:19 2001 Quant Results File: XPCBI12.RES



09.14.01

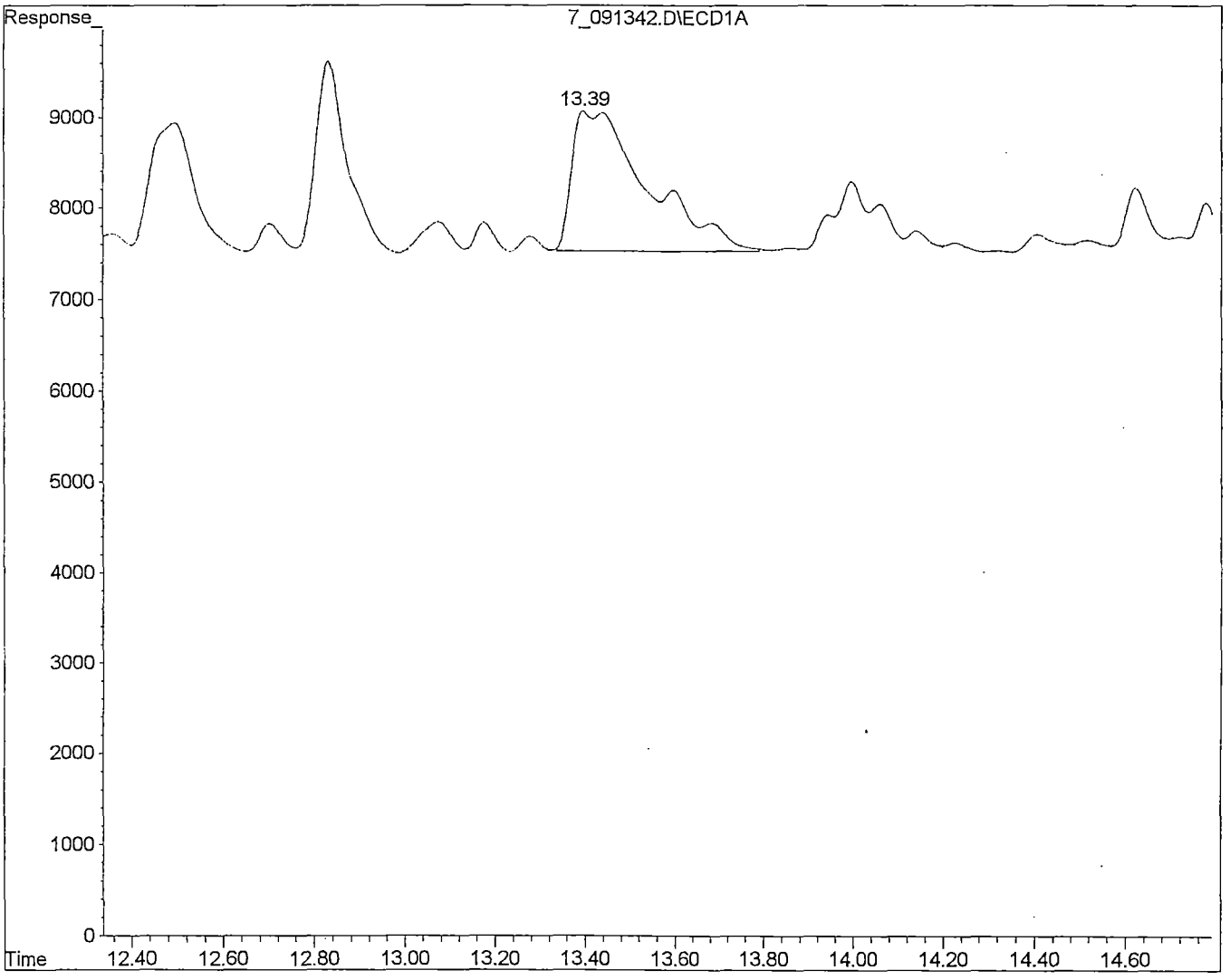
Aroclor-1242 {4} 9.22min area: 146523 m

Integration Time Range: 9.19 - 9.27

F:\HPCHEM\HP\7\DATA\09_13_01\7_091342.D
Report generated: Fri Sep 14 11:35:05 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091342.D
Date Acquired: 14 Sep 2001 2:08
Inst: HP_07 Operator ID: SA
Name: 47292.17 *E02P2 *
Misc: *EPA*30.3G/5.0ML*15
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 11:19 2001 Quant Results File: XPCBI12.RES



09-14-01

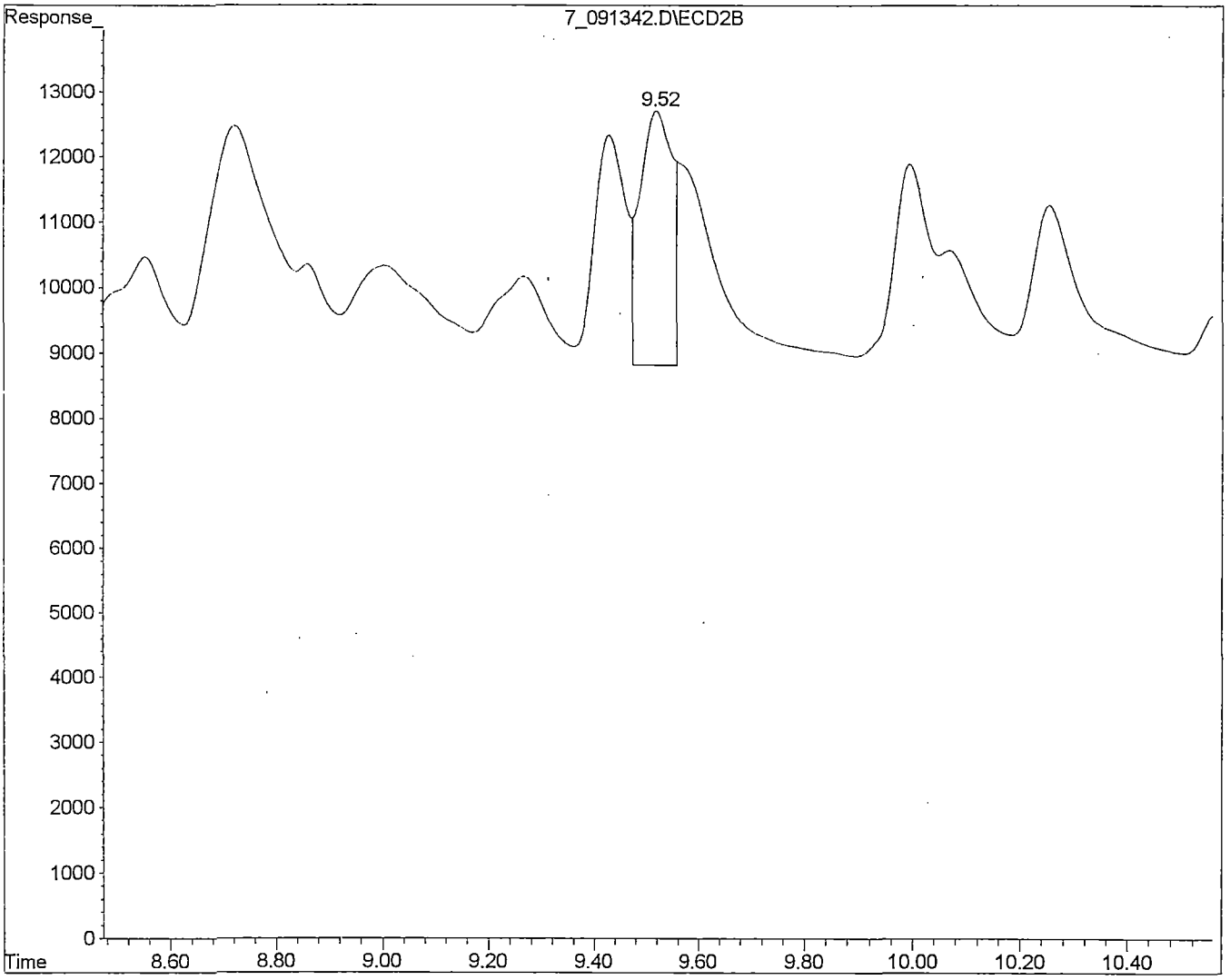
Aroclor-1254 {5} 13.39min area: 178972 m

Integration Time Range: 13.34 - 13.79

F:\HPCHEM\HP\7\DATA\09_13_01\7_091342.D
Report generated: Fri Sep 14 11:35:05 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091342.D
Date Acquired: 14 Sep 2001 2:08
Inst: HP_07 Operator ID: SA
Name: 47292.17 *E02P2 *
Misc: *EPA*30.3G/5.0ML*15
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 11:19 2001 Quant Results File: XPCBI12.RES



CDG.14.9

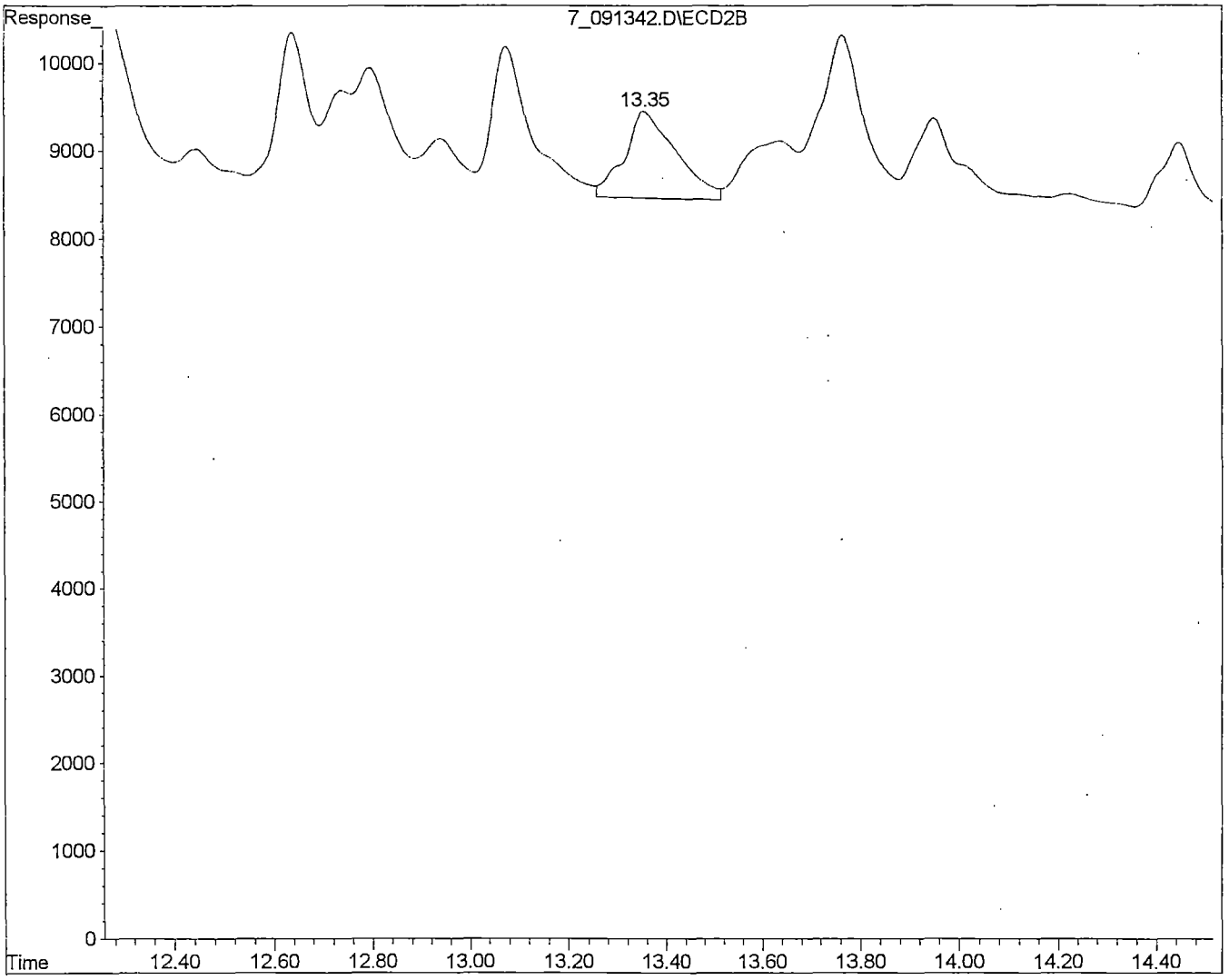
Aroclor-1242 {4} #2 9.52min area: 164678 m

Integration Time Range: 9.47 - 9.56

F:\HPCHEM\HP\7\DATA\09_13_01\7_091342.D
Report generated: Fri Sep 14 11:35:06 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091342.D
Date Acquired: 14 Sep 2001 2:08
Inst: HP_07 Operator ID: SA
Name: 47292.17 *E02P2 *
Misc: *EPA*30.3G/5.0ML*15
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 11:19 2001 Quant Results File: XPCBI12.RES



Aroclor-1260 {3} #2 13.35min area: 73788 m

Integration Time Range: 13.26 - 13.51

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02P3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47292.18

Sample wt/vol: 30.4 (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: 09/14/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

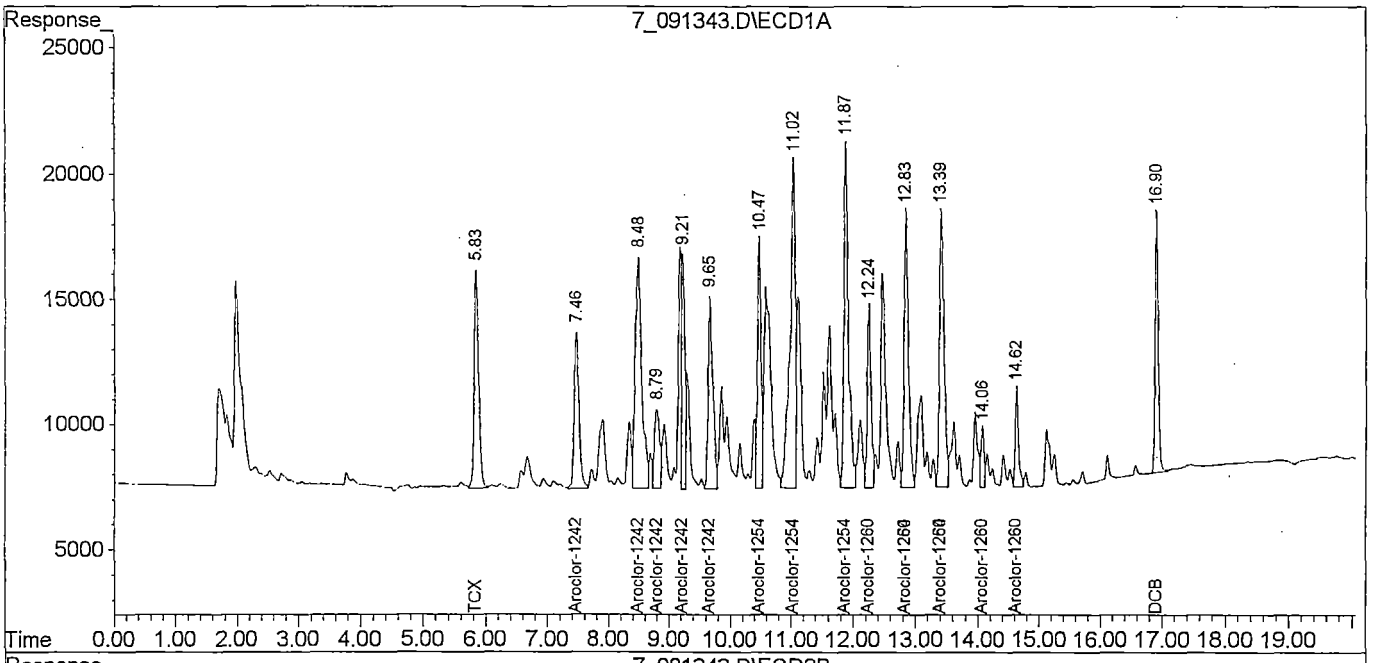
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	120	
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	100	
11096-82-5	Aroclor-1260	47	
	Surrogate amount spiked	7.93	

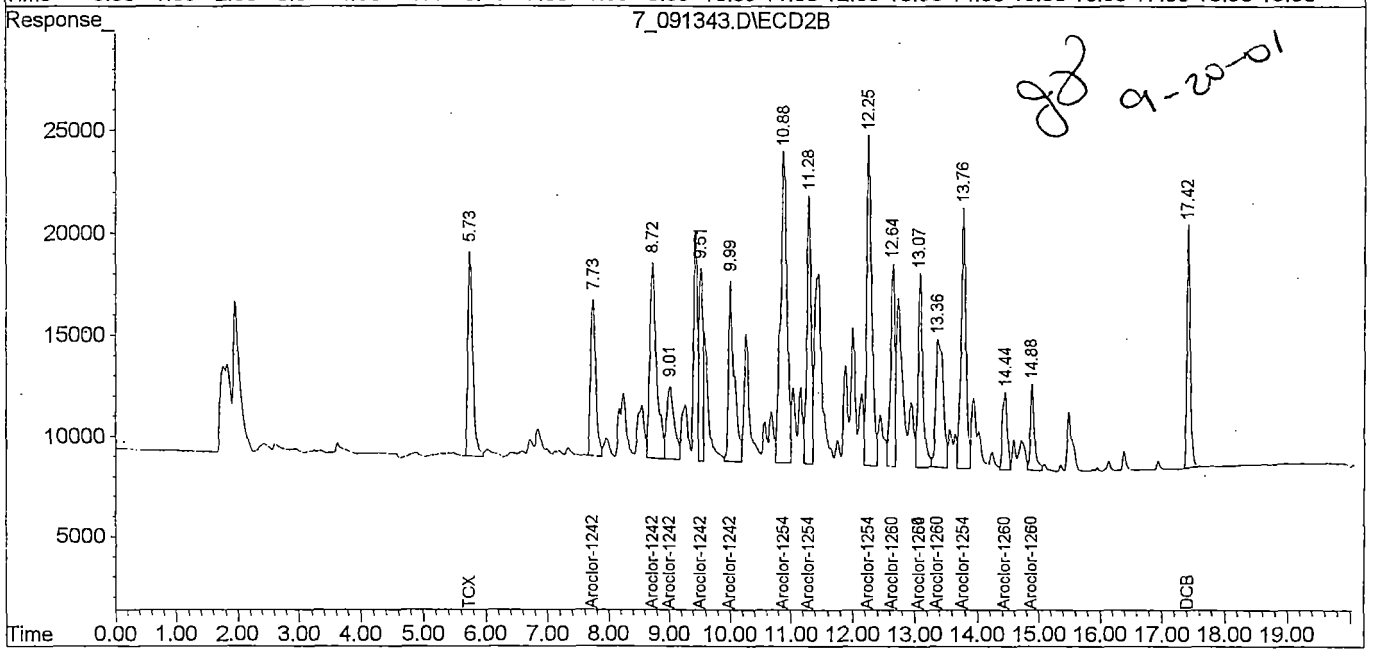
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091343.D\ECD1A.CH Vial: 43
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091343.D\ECD2B.CH
Acq On : 14 Sep 2001 2:32 Operator: SA
Sample : 47292.18 *E02P3 * Inst : HP_07
Misc : *EPA*30.4G/5.0ML*17 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 11:21 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





gb 9-20-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091343.D\ECD1A.CH Vial: 43
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091343.D\ECD2B.CH
Acq On : 14 Sep 2001 2:32 Operator: SA
Sample : 47292.18 *E02P3 * Inst : HP_07
Misc : *EPA*30.4G/5.0ML*17 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 11:21 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

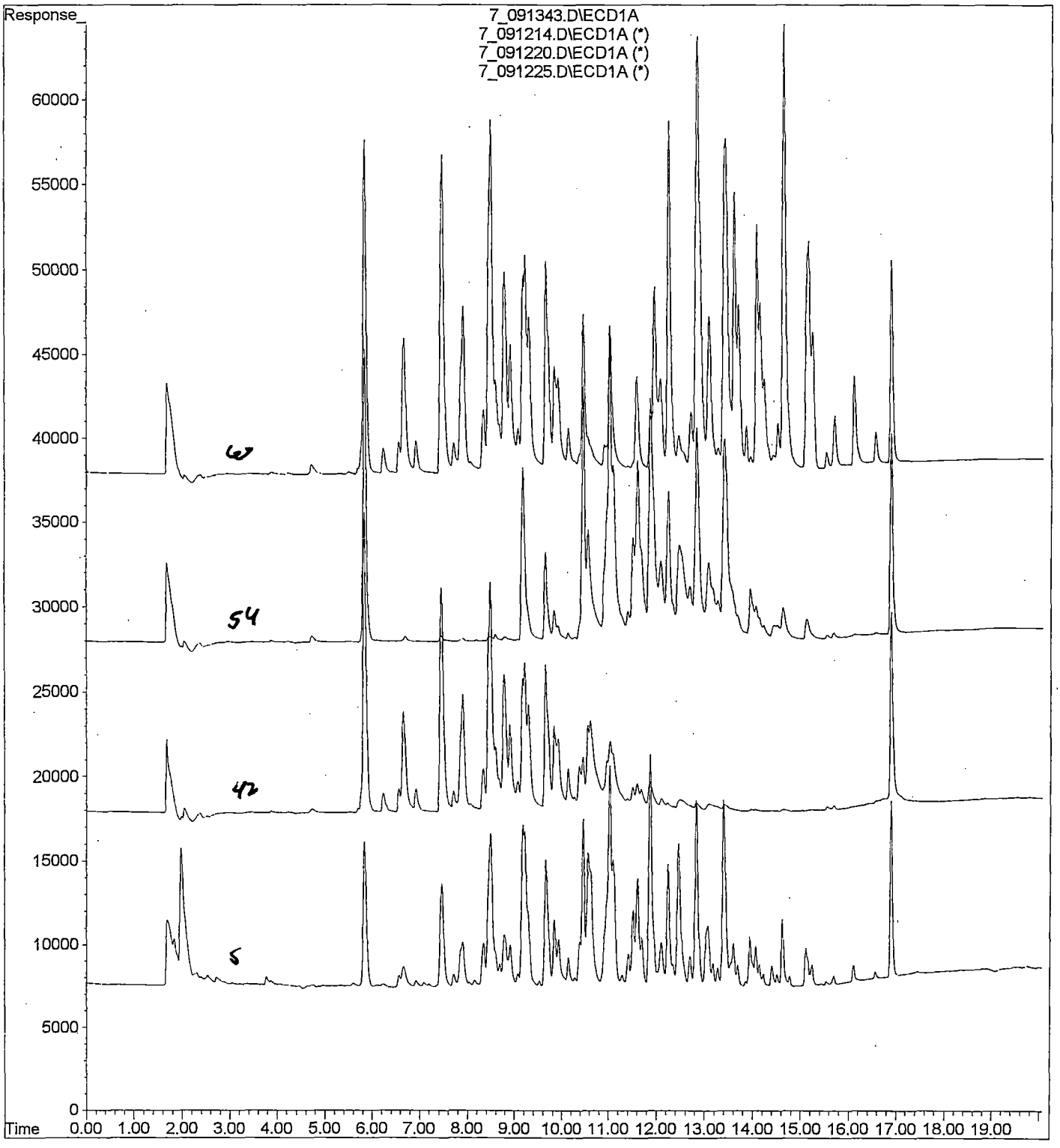
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.83	5.73	428576	553499	4.179	4.226	
	Spiked Amount 7.926			Recovery	=	52.72%	53.32%	
22)	S DCB	16.90	17.42	355618	432318	6.663	7.105	
	Spiked Amount 7.926			Recovery	=	84.06%	89.64%	
	Target Compounds:							
7)	L4 Aroclor-1242	7.46	7.73	351938	461069	80.5	78.9	
8)	L4 Aroclor-1242 {2}	8.48	8.72	693793	763664	132.6	134.0	
9)	L4 Aroclor-1242 {3}	8.79	9.00	191033	301814	68.5	71.9	
10)	L4 Aroclor-1242 {4}	9.21	9.51	341992	415773	168.5m	162.4m	
11)	L4 Aroclor-1242 {5}	9.65	9.99	414409	576973	135.9	242.9	#
	Sum Aroclor-1242			1993165	2519293	585.9	690.0	
	Average Aroclor-1242					117.186	138.001	
12)	L6 Aroclor-1254	10.47	10.88	411519	1129682	100.5	167.2	#
13)	L6 Aroclor-1254 {2}	11.02	11.28	802315	643044	121.2	118.2	
14)	L6 Aroclor-1254 {3}	11.87	12.25	683099	902470	101.4	84.8	
15)	L6 Aroclor-1254 {4}	12.83	13.07	535359	495094	104.2	93.9	
16)	L6 Aroclor-1254 {5}	13.39	13.76	571239	687706	83.9	72.5	
	Sum Aroclor-1254			3003533	3857996	511.2	536.6	
	Average Aroclor-1254					102.233	107.322	
17)	L7 Aroclor-1260	12.24	12.64	312155	454650	53.8	53.3	
18)	L7 Aroclor-1260 {2}	12.83	13.07	535359	495094	55.9	61.3	
19)	L7 Aroclor-1260 {3}	13.39	13.36f	571239	515269	77.1	70.6	
20)	L7 Aroclor-1260 {4}	14.06	14.44	88705	214497	26.8	46.8	#
21)	L7 Aroclor-1260 {5}	14.62	14.88	152469	194716	19.7	24.4	
	Sum Aroclor-1260			1659927	1874226	92.5	101.6	
	Average Aroclor-1260					46.666	51.271	

09.14.01

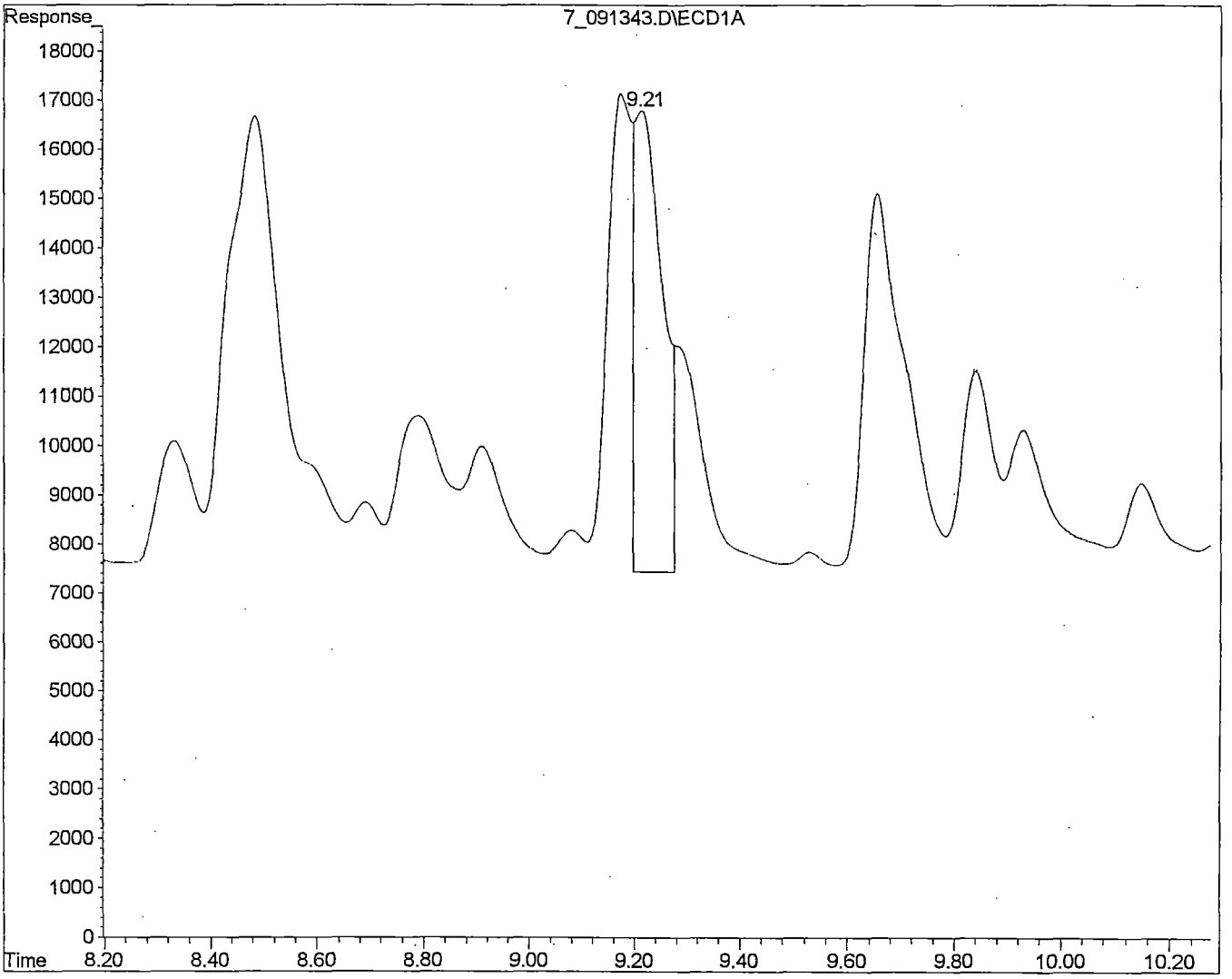
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

File : F:\HPCHEM\HP\7\DATA\09_13_01\7_091343.D
Operator : SA
Acquired : 14 Sep 2001 2:32 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47292.18 *E02P3 *
Misc Info : *EPA*30.4G/5.0ML*17
Vial Number: 43



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091343.D
Date Acquired: 14 Sep 2001 2:32
Inst: HP_07 Operator ID: SA
Name: 47292.18 *E02P3 *
Misc: *EPA*30.4G/5.0ML*17
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 11:21 2001 Quant Results File: XPCBI12.RES



CD 9.14.01

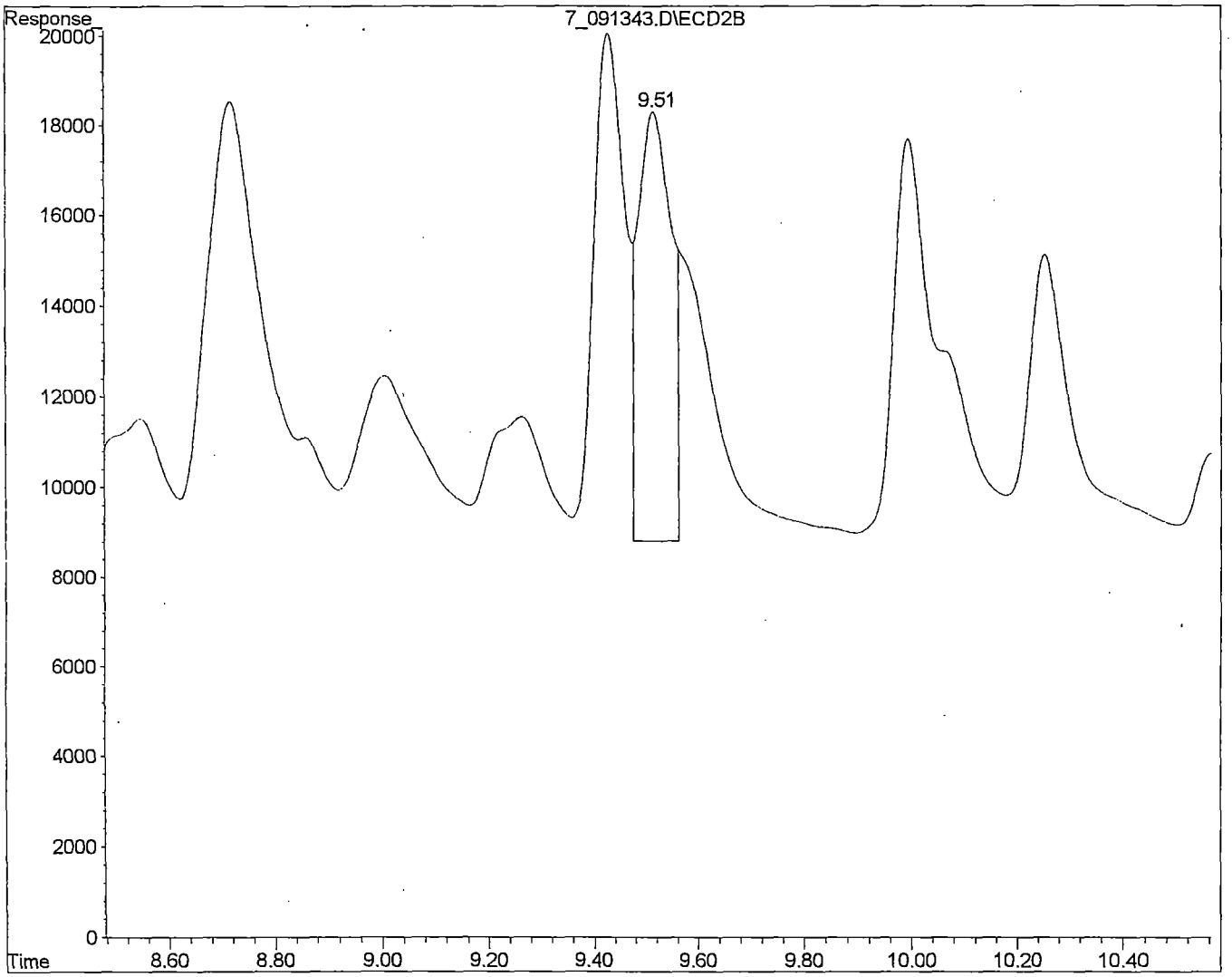
Aroclor-1242 {4} 9.21min area: 341992 m

Integration Time Range: 9.20 - 9.27

F:\HPCHEM\HP\7\DATA\09_13_01\7_091343.D
Report generated: Fri Sep 14 11:35:08 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091343.D
Date Acquired: 14 Sep 2001 2:32
Inst: HP_07 Operator ID: SA
Name: 47292.18 *E02P3 *
Misc: *EPA*30.4G/5.0ML*17
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 11:21 2001 Quant Results File: XPCBI12.RES



cs 9.14.01

Aroclor-1242 {4} #2 9.51min area: 415773 m

Integration Time Range: 9.48 - 9.56

F:\HPCHEM\HP\7\DATA\09_13_01\7_091343.D
Report generated: Fri Sep 14 11:35:09 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02P4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47292.19

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

% Moisture: 12 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: 09/14/01

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	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	60	
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	41	
11096-82-5	Aroclor-1260	17	J
Surrogate amount spiked		7.45	

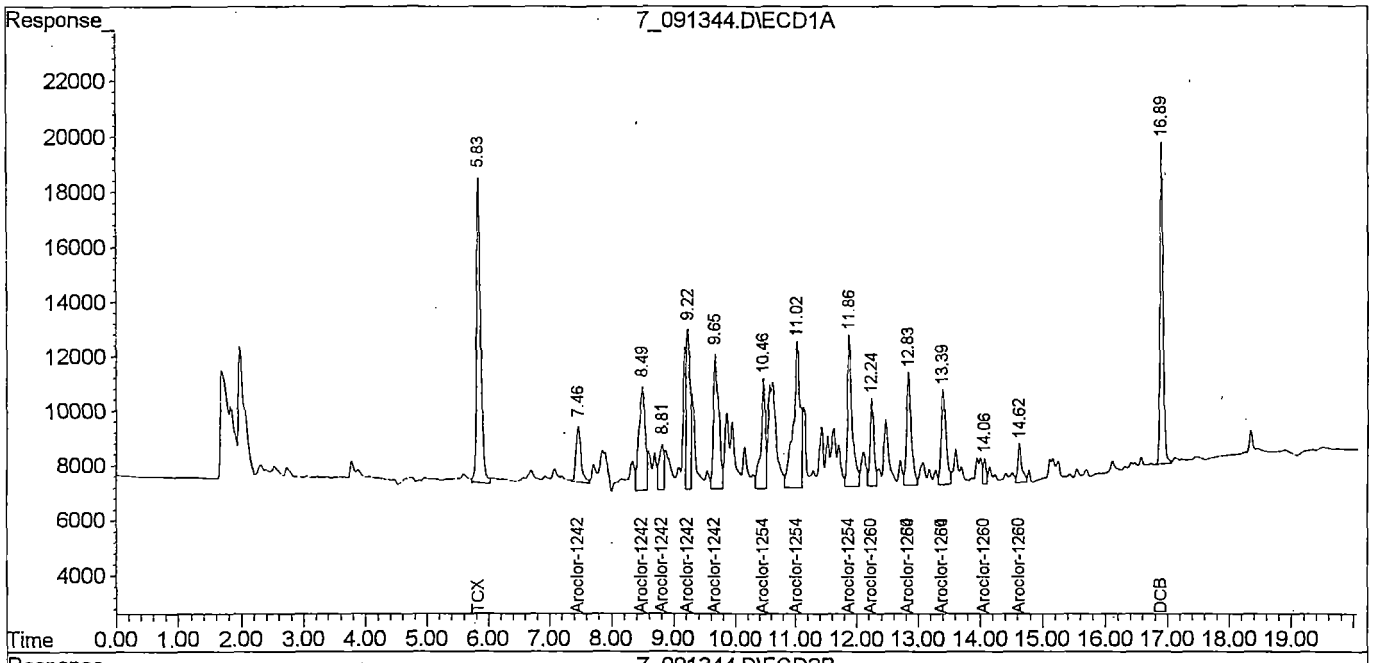
FORM I PCB

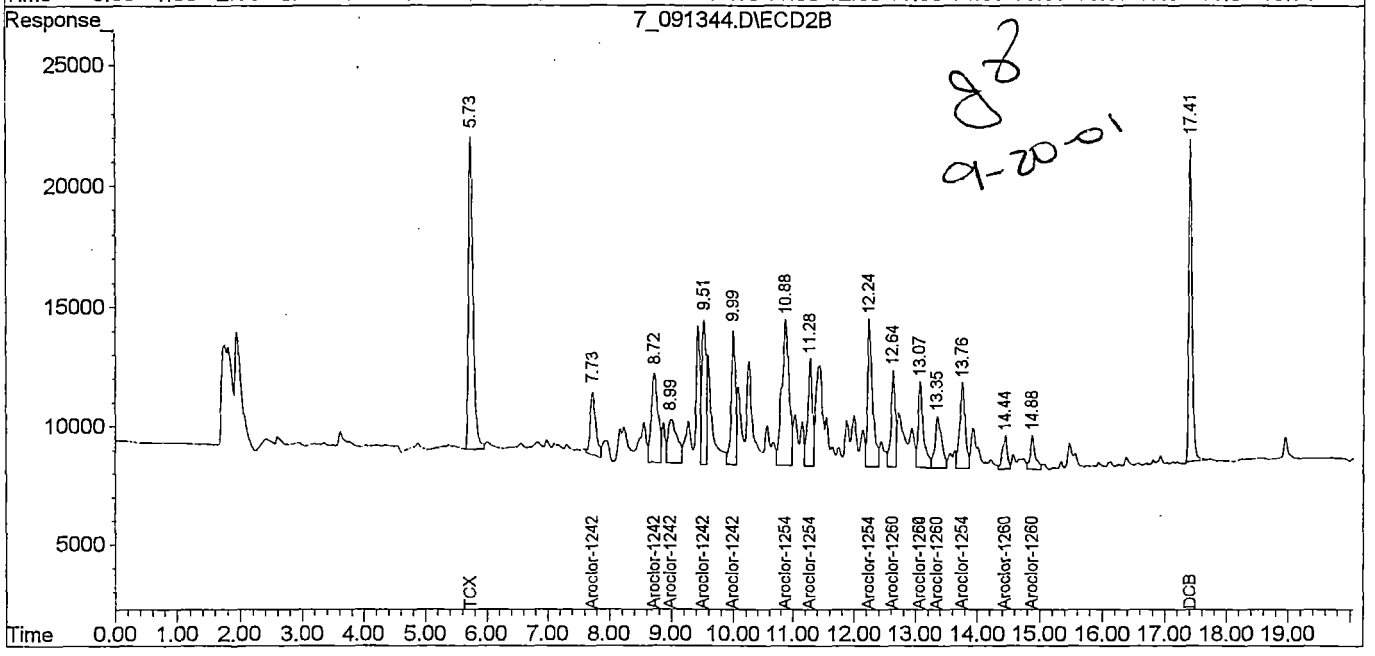
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091344.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091344.D\ECD2B.CH
Acq On : 14 Sep 2001 2:56 Operator: SA
Sample : 47292.19 *E02P4 * Inst : HP_07
Misc : *EPA*30.5G/5.0ML*12 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 11:24 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





9-20-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091344.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091344.D\ECD2B.CH
Acq On : 14 Sep 2001 2:56 Operator: SA
Sample : 47292.19 *E02P4 * Inst : HP_07
Misc : *EPA*30.5G/5.0ML*12 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 11:24 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

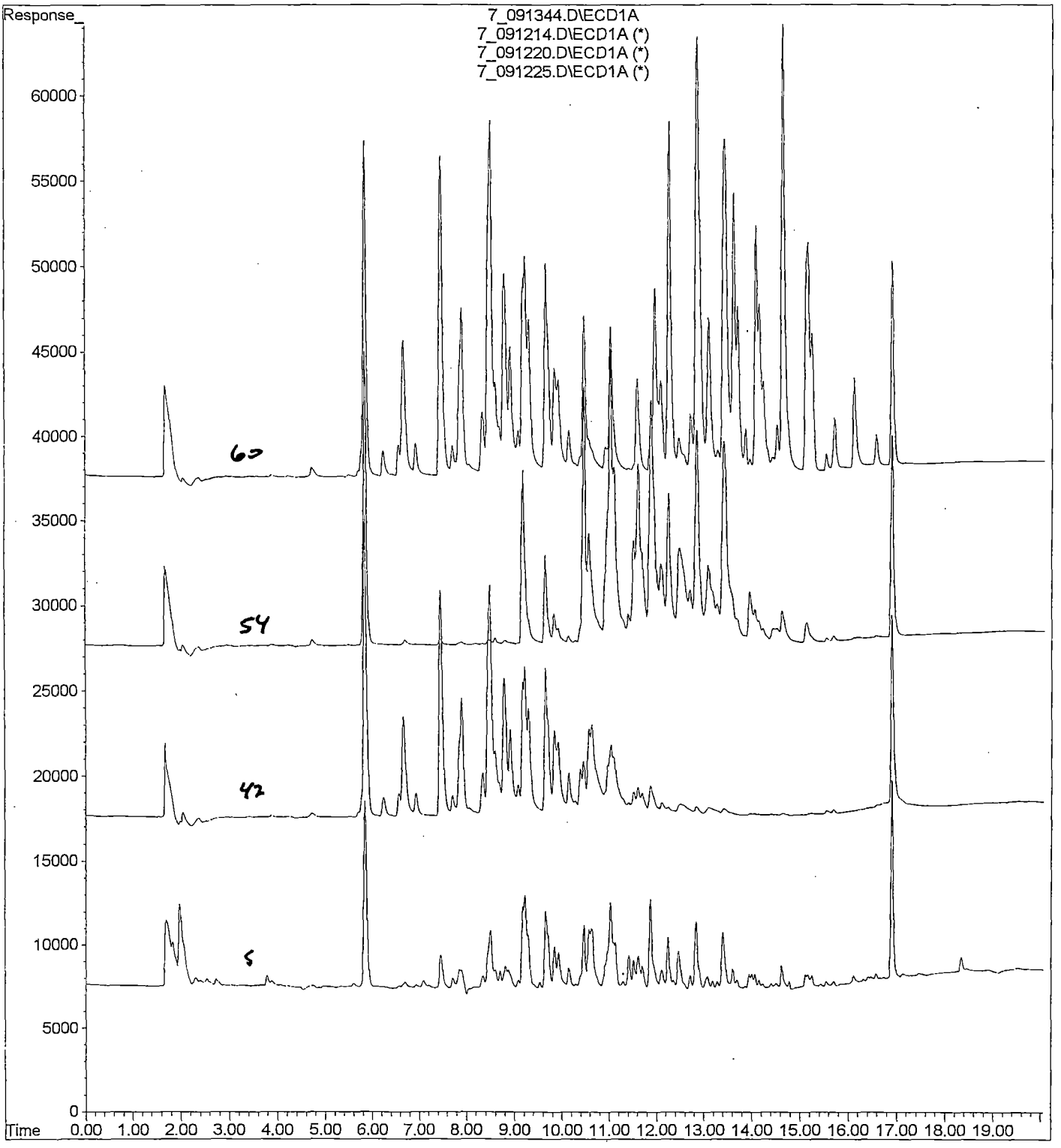
Volume Inj. : 0.5uL
Signal #1 Phase : PEST I Signal #2 Phase: PEST II
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_07A Signal #2 Inst : HP_07B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.83	5.73	521969	661625	4.785	4.749	
	Spiked Amount 7.452			Recovery	=	64.21%	63.73%	
22)	S DCB	16.90	17.41	396692	488861	6.988	7.553	
	Spiked Amount 7.452			Recovery	=	93.78%	101.36%	
	Target Compounds:							
7)	L4 Aroclor-1242	7.46	7.73	116327	167450	25.0m	26.9	
8)	L4 Aroclor-1242 {2}	8.49	8.72	258999	282410	46.5	46.6	
9)	L4 Aroclor-1242 {3}	8.81	8.99	83001	192049	28.0	43.0	#
10)	L4 Aroclor-1242 {4}	9.22	9.51	237622	290629	110.1m	106.7m	
11)	L4 Aroclor-1242 {5}	9.65	9.99	299880	260596	92.5	103.1	
	Sum Aroclor-1242			995829	1193134	302.0	326.3	
	Average Aroclor-1242					60.407	65.268	
12)	L6 Aroclor-1254	10.46	10.88	207466	519576	47.6	72.3	#
13)	L6 Aroclor-1254 {2}	11.02	11.28	426533	242981	60.6	42.0	#
14)	L6 Aroclor-1254 {3}	11.86	12.24	290501	364957	40.5	32.3	
15)	L6 Aroclor-1254 {4}	12.83	13.07	212845	210813	39.0	37.6	
16)	L6 Aroclor-1254 {5}	13.39	13.76	186628	215002	25.8	21.3	
	Sum Aroclor-1254			1323973	1553329	213.4	205.4	
	Average Aroclor-1254					42.688	41.084	
17)	L7 Aroclor-1260	12.24	12.64	138332	192891	22.4	21.3	
18)	L7 Aroclor-1260 {2}	12.83	13.07	212845	210813	20.9	24.5	
19)	L7 Aroclor-1260 {3}	13.39	13.35f	186628	165322	23.7	21.3m	
20)	L7 Aroclor-1260 {4}	14.06	14.44	30945	77163	8.802	15.8	#
21)	L7 Aroclor-1260 {5}	14.62	14.88	62784	78571	7.629	9.245	
	Sum Aroclor-1260			631535	724760	31.1	34.3	
	Average Aroclor-1260					16.681	18.432	

12.4m

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

File : F:\HPCHEM\HP\7\DATA\09_13_01\7_091344.D
Operator : SA
Acquired : 14 Sep 2001 2:56 using AcqMethod OLM03.M
Instrument : HP_07
Sample Name: 47292.19 *E02P4 *
Misc Info : *EPA*30.5G/5.0ML*12
Vial Number: 44



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091344.D
Date Acquired: 14 Sep 2001 2:56
Inst: HP_07 Operator ID: SA
Name: 47292.19 *E02P4 *
Misc: *EPA*30.5G/5.0ML*12
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Title: PCB/TOXAPHENE
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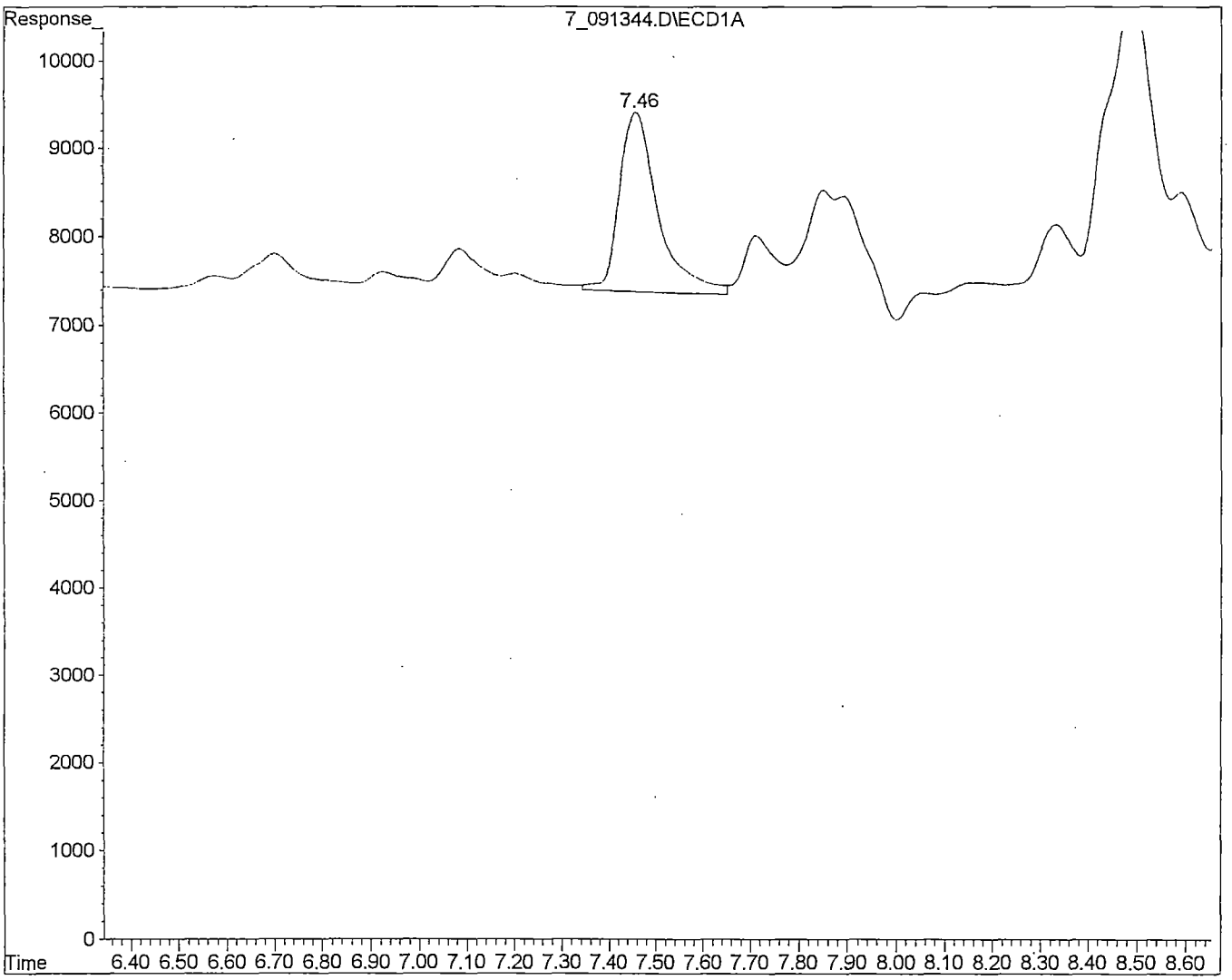

09.14.01

Aroclor-1242 7.46min area: 116327 m

Integration Time Range: 7.34 - 7.65

F:\HPCHEM\HP\7\DATA\09_13_01\7_091344.D
Report generated: Fri Sep 14 11:35:11 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091344.D
Date Acquired: 14 Sep 2001 2:56
Inst: HP_07 Operator ID: SA
Name: 47292.19 *E02P4 *
Misc: *EPA*30.5G/5.0ML*12
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
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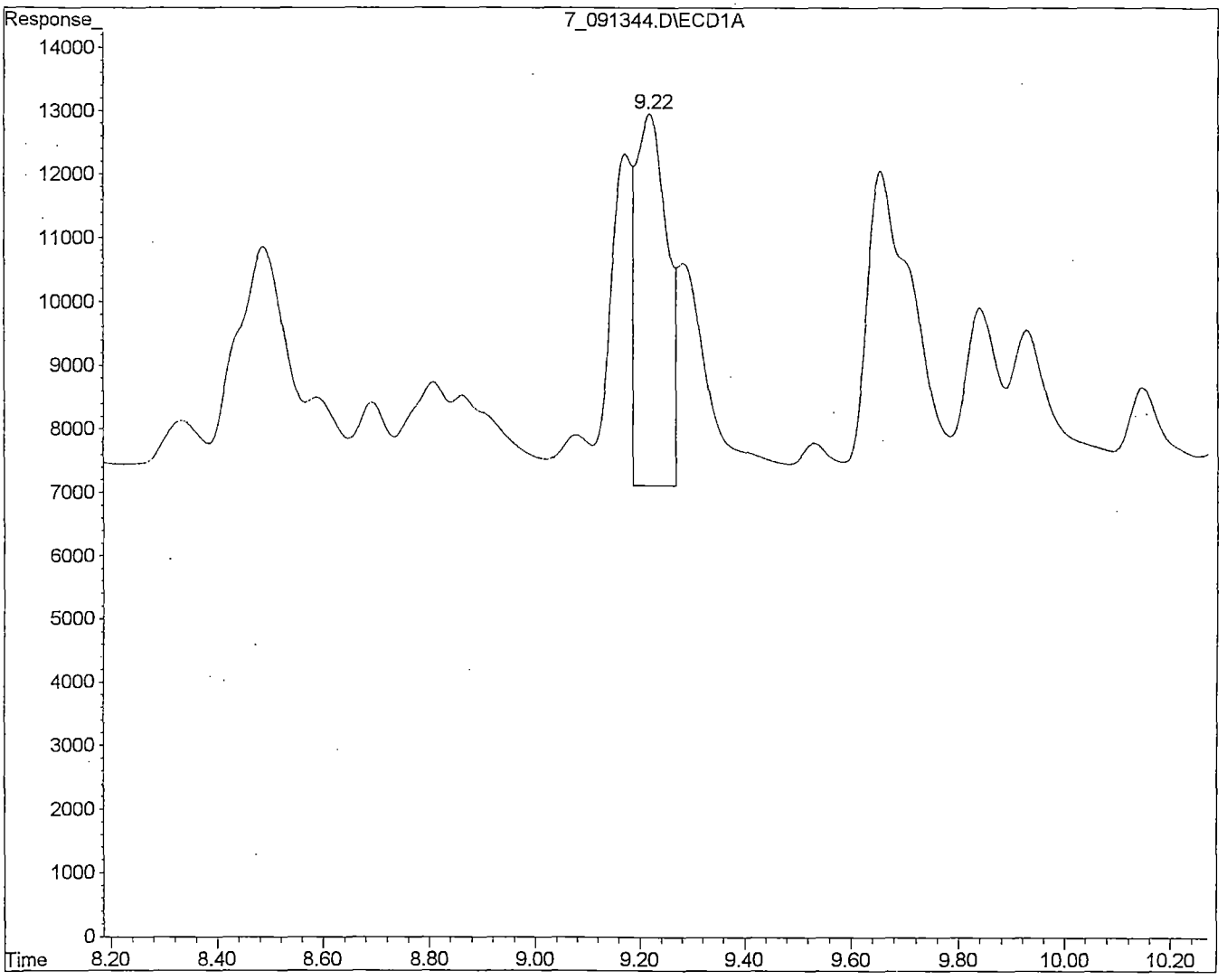

9/14/01

Aroclor-1242 {4} 9.22min area: 237622 m

Integration Time Range: 9.19 - 9.27

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Report generated: Fri Sep 14 11:35:11 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091344.D
Date Acquired: 14 Sep 2001 2:56
Inst: HP_07 Operator ID: SA
Name: 47292.19 *E02P4 *
Misc: *EPA*30.5G/5.0ML*12
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
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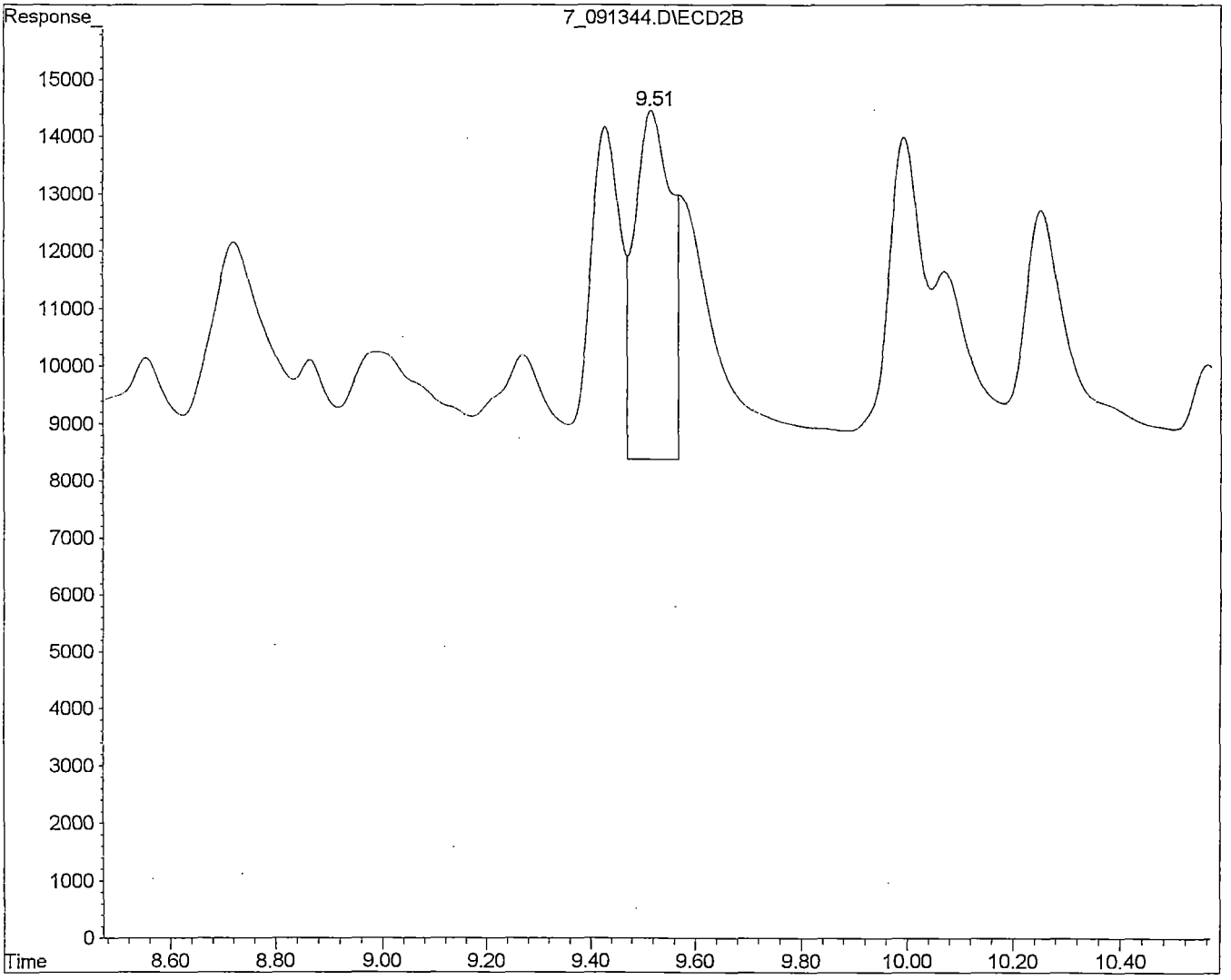

9.14.01

Aroclor-1242 {4} #2 9.51min area: 290629 m

Integration Time Range: 9.47 - 9.57

MANUAL INTEGRATION REPORT

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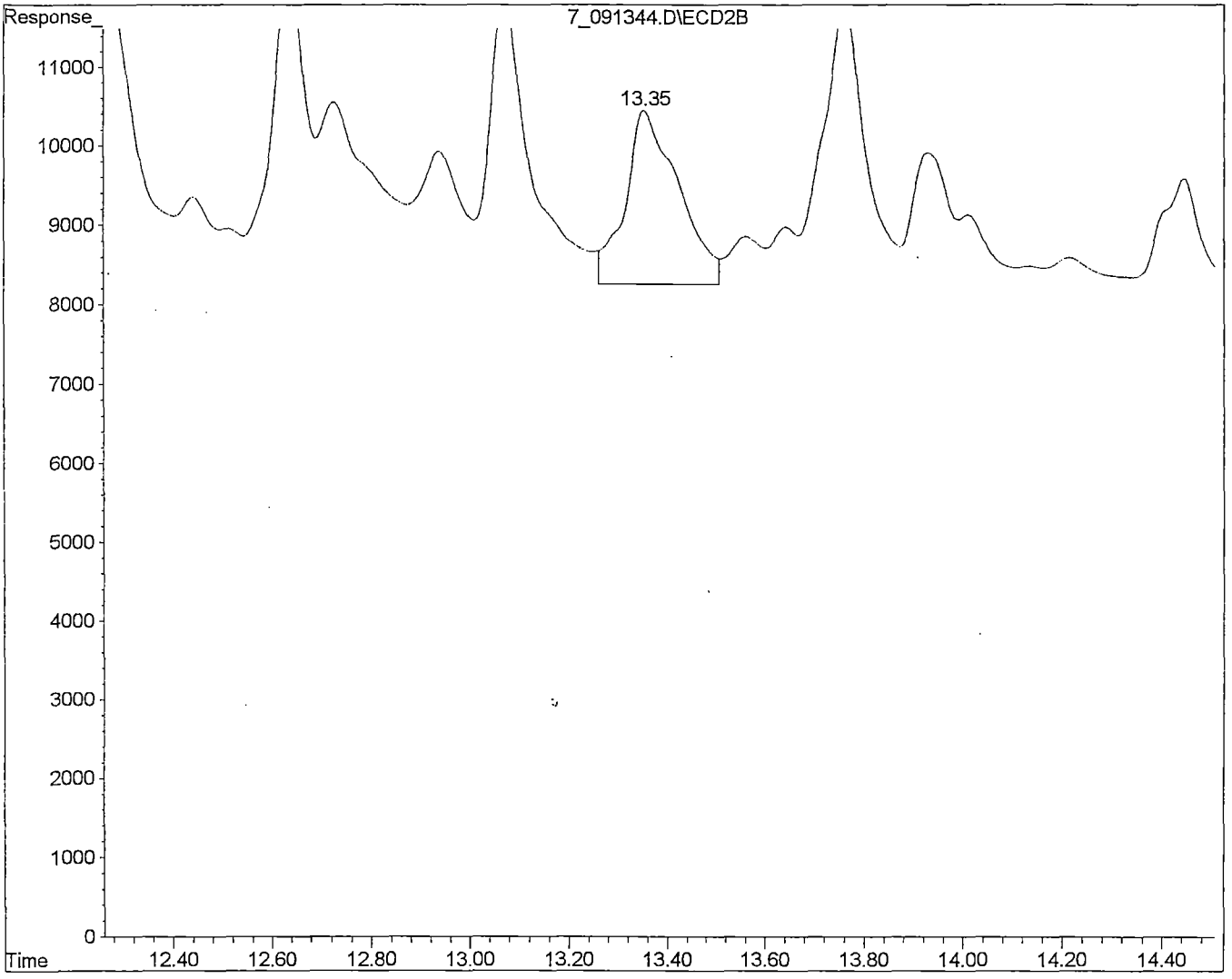
Date Acquired: 14 Sep 2001 2:56
Inst: HP_07 Operator ID: SA
Name: 47292.19 *E02P4 *
Misc: *EPA*30.5G/5.0ML*12
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 11:24 2001 Quant Results File: XPCBI12.RES



09.14.01

Aroclor-1260 {3} #2 13.35min area: 165322 m

Integration Time Range: 13.26 - 13.51

F:\HPCHEM\HP\7\DATA\09_13_01\7_091344.D
Report generated: Fri Sep 14 11:35:13 2001

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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.: E02M5

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

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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.: E02M5

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.: E02M5

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	

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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.: E02M5

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

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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.: E02M5

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.: E02M5

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.: E02M5

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

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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.: E02M5

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.: E02M5

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	

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MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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

Client Sample No.(PIBLK): PIBLK75 Date Analyzed : 09/13/01

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

Client Sample No.: AR1660L37W Date Analyzed : 09/13/01

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	6.60	6.70	1010620	964558	4.8
Aroclor 1016 #2	7.90	7.84	7.94	1389445	1313586	5.8
Aroclor 1016 #3	8.48	8.42	8.52	2855275	2722698	4.9
Aroclor 1016 #4	8.91	8.85	8.95	949720	877994	8.2
Aroclor 1016 #5	9.29	9.24	9.34	1223865	1129547	8.4
Aroclor 1260 #1	12.24	12.18	12.28	2513618	2300304	9.3
Aroclor 1260 #2	12.84	12.78	12.88	4205003	3798803	10.7
Aroclor 1260 #3	13.42	13.36	13.46	3310325	2934509	12.8
Aroclor 1260 #4	14.07	14.01	14.11	1444005	1309908	10.2
Aroclor 1260 #5	14.63	14.57	14.67	3525833	3066370	15.0

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

FORM VII PCB

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MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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

Client Sample No.(PIBLK): PIBLK75 Date Analyzed : 09/13/01

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

Client Sample No.: AR1660L37W Date Analyzed : 09/13/01

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	6.84	6.78	6.88	1248960	1166474	7.1
Aroclor 1016 #2	8.24	8.18	8.28	1479308	1406344	5.2
Aroclor 1016 #3	9.43	9.37	9.47	1251898	1167464	7.2
Aroclor 1016 #4	9.60	9.54	9.64	2191290	2082219	5.2
Aroclor 1016 #5	10.00	9.94	10.04	2215780	2103963	5.3
Aroclor 1260 #1	12.66	12.60	12.70	3693838	3377496	9.4
Aroclor 1260 #2	13.10	13.05	13.15	3684860	3201588	15.1*
Aroclor 1260 #3	13.41	13.36	13.46	3217550	2894184	11.2
Aroclor 1260 #4	14.47	14.41	14.51	2112435	1816915	16.3*
Aroclor 1260 #5	14.91	14.86	14.96	3783948	3166373	19.5*

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.: E02M5

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

Client Sample No.(PIBLK): PIBLK77 Date Analyzed : 09/13/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1525

Client Sample No.: AR1660L371 Date Analyzed : 09/13/01

Lab Sample ID : 5-128-7 Time Analyzed : 1549

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.66	6.60	6.70	1080773	964558	12.0
Aroclor 1016 #2	7.89	7.84	7.94	1494455	1313586	13.8
Aroclor 1016 #3	8.48	8.42	8.52	3051503	2722698	12.1
Aroclor 1016 #4	8.90	8.85	8.95	1029365	877994	17.2*
Aroclor 1016 #5	9.29	9.24	9.34	1338418	1129547	18.5*
Aroclor 1260 #1	12.24	12.18	12.28	2678680	2300304	16.4*
Aroclor 1260 #2	12.83	12.78	12.88	4471810	3798803	17.7*
Aroclor 1260 #3	13.42	13.36	13.46	3511788	2934509	19.7*
Aroclor 1260 #4	14.07	14.01	14.11	1530553	1309908	16.8*
Aroclor 1260 #5	14.63	14.57	14.67	3797235	3066370	23.8*

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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

Client Sample No.(PIBLK): PIBLK77 Date Analyzed : 09/13/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1525

Client Sample No.: AR1660L371 Date Analyzed : 09/13/01

Lab Sample ID : 5-128-7 Time Analyzed : 1549

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.84	6.78	6.88	1333525	1166474	14.3
Aroclor 1016 #2	8.23	8.18	8.28	1616545	1406344	14.9
Aroclor 1016 #3	9.43	9.37	9.47	1344595	1167464	15.2*
Aroclor 1016 #4	9.59	9.54	9.64	2436620	2082219	17.0*
Aroclor 1016 #5	10.00	9.94	10.04	2398220	2103963	14.0
Aroclor 1260 #1	12.65	12.60	12.70	3923418	3377496	16.2*
Aroclor 1260 #2	13.10	13.05	13.15	3882453	3201588	21.3*
Aroclor 1260 #3	13.41	13.36	13.46	3414545	2894184	18.0*
Aroclor 1260 #4	14.47	14.41	14.51	2228760	1816915	22.7*
Aroclor 1260 #5	14.91	14.86	14.96	4036623	3166373	27.5*

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.: E02M5

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

Client Sample No.(PIBLK): PIBLK77 Date Analyzed : 09/13/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1525

Client Sample No.: AR1660L372 Date Analyzed : 09/13/01

Lab Sample ID : 5-128-7 Time Analyzed : 1613

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.65	6.60	6.70	1082745	964558	12.3
Aroclor 1016 #2	7.89	7.84	7.94	1488913	1313586	13.3
Aroclor 1016 #3	8.47	8.42	8.52	3037733	2722698	11.6
Aroclor 1016 #4	8.90	8.85	8.95	1013178	877994	15.4*
Aroclor 1016 #5	9.29	9.24	9.34	1317780	1129547	16.7*
Aroclor 1260 #1	12.24	12.18	12.28	2515878	2300304	9.4
Aroclor 1260 #2	12.83	12.78	12.88	4109858	3798803	8.2
Aroclor 1260 #3	13.42	13.36	13.46	3169725	2934509	8.0
Aroclor 1260 #4	14.07	14.01	14.11	1360678	1309908	3.9
Aroclor 1260 #5	14.63	14.57	14.67	3240188	3066370	5.7

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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

Client Sample No.(PIBLK): PIBLK77 Date Analyzed : 09/13/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 1525

Client Sample No.: AR1660L372 Date Analyzed : 09/13/01

Lab Sample ID : 5-128-7 Time Analyzed : 1613

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.83	6.78	6.88	1330715	1166474	14.1
Aroclor 1016 #2	8.23	8.18	8.28	1571590	1406344	11.8
Aroclor 1016 #3	9.43	9.37	9.47	1309875	1167464	12.2
Aroclor 1016 #4	9.59	9.54	9.64	2386778	2082219	14.6
Aroclor 1016 #5	10.00	9.94	10.04	2330663	2103963	10.8
Aroclor 1260 #1	12.66	12.60	12.70	3658925	3377496	8.3
Aroclor 1260 #2	13.10	13.05	13.15	3522565	3201588	10.0
Aroclor 1260 #3	13.41	13.36	13.46	3143258	2894184	8.6
Aroclor 1260 #4	14.47	14.41	14.51	1951818	1816915	7.4
Aroclor 1260 #5	14.91	14.86	14.96	3436845	3166373	8.5

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.: E02M5

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

Client Sample No.(PIBLK): PIBLK78 Date Analyzed : 09/13/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 2208

Client Sample No.: AR1660L373 Date Analyzed : 09/13/01

Lab Sample ID : 5-128-7 Time Analyzed : 2232

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.66	6.60	6.70	1074545	964558	11.4
Aroclor 1016 #2	7.89	7.84	7.94	1457875	1313586	11.0
Aroclor 1016 #3	8.48	8.42	8.52	2935390	2722698	7.8
Aroclor 1016 #4	8.90	8.85	8.95	974695	877994	11.0
Aroclor 1016 #5	9.29	9.24	9.34	1253305	1129547	11.0
Aroclor 1260 #1	12.24	12.18	12.28	2470440	2300304	7.4
Aroclor 1260 #2	12.84	12.78	12.88	4114213	3798803	8.3
Aroclor 1260 #3	13.42	13.36	13.46	3227150	2934509	10.0
Aroclor 1260 #4	14.07	14.01	14.11	1416830	1309908	8.2
Aroclor 1260 #5	14.63	14.57	14.67	3434085	3066370	12.0

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

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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

Client Sample No.(PIBLK): PIBLK78 Date Analyzed : 09/13/01

Lab Sample ID (PIBLK): 5-131-7 Time Analyzed : 2208

Client Sample No.: AR1660L373 Date Analyzed : 09/13/01

Lab Sample ID : 5-128-7 Time Analyzed : 2232

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	6.84	6.78	6.88	1355148	1166474	16.2*
Aroclor 1016 #2	8.23	8.18	8.28	1561135	1406344	11.0
Aroclor 1016 #3	9.43	9.37	9.47	1293580	1167464	10.8
Aroclor 1016 #4	9.59	9.54	9.64	2278595	2082219	9.4
Aroclor 1016 #5	10.00	9.94	10.04	2276298	2103963	8.2
Aroclor 1260 #1	12.66	12.60	12.70	3624950	3377496	7.3
Aroclor 1260 #2	13.10	13.05	13.15	3596345	3201588	12.3
Aroclor 1260 #3	13.41	13.36	13.46	3166658	2894184	9.4
Aroclor 1260 #4	14.47	14.41	14.51	2065380	1816915	13.7
Aroclor 1260 #5	14.91	14.86	14.96	3795435	3166373	19.9*

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.: E02M5

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%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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.: E02M5

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.: E02M5

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.: E02M5

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.: E02M5

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%.

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SAS No.: SDG No.: E02M5

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	PIBLK75	5-131-7	09/13/01	0830	5.84	16.91
21	AR1660L37W	5-128-7	09/13/01	0855	5.83	16.90
22	PBLKSE	BL0816SE	09/13/01	1033	5.82	16.89
23	ELCS1	LC0816SE	09/13/01	1121	5.83	16.89
24	ELCS2	LD0816SE	09/13/01	1146	5.83	16.89
25	E02M5	47282.01	09/13/01	1323	5.83	16.89
26	E02M6	47282.02	09/13/01	1347	5.82	16.89
27	E02M7	47282.03	09/13/01	1411	5.82	16.89
28	PIBLK77	5-131-7	09/13/01	1525	5.83	16.90
29	AR1660L371	5-128-7	09/13/01	1549	5.82	16.90
30	AR1660L372	5-128-7	09/13/01	1613	5.82	16.90
31	E02M8	47292.01	09/13/01	1743	5.84	16.90
32	E02M9	47292.02	09/13/01	1807	5.83	16.89
33	E02N0	47292.03	09/13/01	1831	5.83	16.89
34	E02N1	47292.04	09/13/01	1855	5.82	16.88
35	E02N2	47292.05	09/13/01	1919	5.82	16.88

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.: E02M5

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	E02N3	47292.06	09/13/01	1943	5.82	16.89
02	E02N4	47292.07	09/13/01	2007	5.82	16.89
03	E02N5	47292.08	09/13/01	2032	5.82	16.89
04	E03N6	47292.09	09/13/01	2055	5.82	16.89
05	PIBLK78	5-131-7	09/13/01	2208	5.83	16.90
06	AR1660L373	5-128-7	09/13/01	2232	5.82	16.90
07	E02N7	47292.10	09/13/01	2320	5.83	16.89
08	E02N8	47292.11	09/13/01	2344	5.82	16.89
09	E02N8MS	47292.12MS	09/14/01	0008	5.83	16.89
10	E02N8MSD	47292.13MSD	09/14/01	0032	5.83	16.90
11	E02N9	47292.14	09/14/01	0056	5.83	16.89
12	E02P0	47292.15	09/14/01	0120	5.83	16.89
13	E02P1	47292.16	09/14/01	0144	5.83	16.90
14	E02P2	47292.17	09/14/01	0208	5.83	16.90
15	E02P3	47292.18	09/14/01	0232	5.83	16.90
16	E02P4	47292.19	09/14/01	0256	5.83	16.90
17	PIBLK79	5-131-7	09/14/01	0408	5.83	16.91
18	AR1660L375	5-128-7	09/14/01	0432	5.83	16.91
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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.: E02M5

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	PIBLK75	5-131-7	09/13/01	0830	5.74	17.43
21	AR1660L37W	5-128-7	09/13/01	0855	5.73	17.43
22	PBLKSE	BL0816SE	09/13/01	1033	5.73	17.41
23	ELCS1	LC0816SE	09/13/01	1121	5.73	17.41
24	ELCS2	LD0816SE	09/13/01	1146	5.73	17.41
25	E02M5	47282.01	09/13/01	1323	5.73	17.41
26	E02M6	47282.02	09/13/01	1347	5.73	17.41
27	E02M7	47282.03	09/13/01	1411	5.73	17.41
28	PIBLK77	5-131-7	09/13/01	1525	5.73	17.43
29	AR1660L371	5-128-7	09/13/01	1549	5.73	17.42
30	AR1660L372	5-128-7	09/13/01	1613	5.73	17.42
31	E02M8	47292.01	09/13/01	1743	5.74	17.42
32	E02M9	47292.02	09/13/01	1807	5.73	17.41
33	E02N0	47292.03	09/13/01	1831	5.73	17.41
34	E02N1	47292.04	09/13/01	1855	5.72	17.40
35	E02N2	47292.05	09/13/01	1919	5.72	17.40

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.: E02M5

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	E02N3	47292.06	09/13/01	1943	5.73	17.41
02	E02N4	47292.07	09/13/01	2007	5.73	17.41
03	E02N5	47292.08	09/13/01	2032	5.73	17.41
04	E03N6	47292.09	09/13/01	2055	5.73	17.41
05	PIBLK78	5-131-7	09/13/01	2208	5.73	17.43
06	AR1660L373	5-128-7	09/13/01	2232	5.73	17.42
07	E02N7	47292.10	09/13/01	2320	5.73	17.41
08	E02N8	47292.11	09/13/01	2344	5.73	17.41
09	E02N8MS	47292.12MS	09/14/01	0008	5.73	17.41
10	E02N8MSD	47292.13MSD	09/14/01	0032	5.73	17.42
11	E02N9	47292.14	09/14/01	0056	5.73	17.41
12	E02P0	47292.15	09/14/01	0120	5.73	17.41
13	E02P1	47292.16	09/14/01	0144	5.73	17.42
14	E02P2	47292.17	09/14/01	0208	5.73	17.42
15	E02P3	47292.18	09/14/01	0232	5.73	17.42
16	E02P4	47292.19	09/14/01	0256	5.73	17.41
17	PIBLK79	5-131-7	09/14/01	0408	5.73	17.43
18	AR1660L375	5-128-7	09/14/01	0432	5.74	17.43
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TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SAS No.: SDG No.: E02M5

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	PIBLK7H	5-131-7	09/19/01	0655	5.83	16.90
22	AR1660L37N	5-128-7	09/19/01	0719	5.83	16.89
23	E02N1DL	47292.04DL	09/19/01	1156	5.80	16.89
24	PIBLK7I	5-131-7	09/19/01	1404	5.83	16.90
25	AR1660L37P	5-128-7	09/19/01	1429	5.82	16.89
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TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SAS No.: SDG No.: E02M5

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	PIBLK7H	5-131-7	09/19/01	0655	5.73	17.42
22	AR1660L37N	5-128-7	09/19/01	0719	5.73	17.41
23	E02N1DL	47292.04DL	09/19/01	1156	5.71	17.40
24	PIBLK7I	5-131-7	09/19/01	1404	5.73	17.41
25	AR1660L37P	5-128-7	09/19/01	1429	5.73	17.41
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TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Lab Sample ID: LC0816SE Date(s) Analyzed: 09/13/01 09/13/01

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	129		
Aroclor-1254	2	11.02	10.96	11.06	144		
	3	11.86	11.81	11.91	129		
COLUMN 1	4	12.83	12.78	12.88	136		
	5	13.39	13.36	13.46	134	130	
	1	10.87	10.82	10.92	144		
	2	11.29	11.24	11.34	168		
	3	12.26	12.23	12.33	110		
COLUMN 2	4	13.08	13.04	13.14	125		
	5	13.78	13.75	13.85	98.4	130	0.0
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

page 1 of 1

FORM X PCB

10B

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Lab Sample ID: LD0816SE Date(s) Analyzed: 09/13/01 09/13/01

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	101		
Aroclor-1254	2	11.01	10.96	11.06	114		
	3	11.86	11.81	11.91	101		
COLUMN 1	4	12.83	12.78	12.88	111		
	5	13.40	13.36	13.46	110	110	
	1	10.87	10.82	10.92	112		
	2	11.29	11.24	11.34	134		
	3	12.26	12.23	12.33	86.6		
COLUMN 2	4	13.08	13.04	13.14	103		
	5	13.78	13.75	13.85	78.9	100	10.0
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
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	2						
	3						
COLUMN 1	4						
	5						
	1						
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	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

page 1 of 1

FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02M6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Lab Sample ID: 47282.02 Date(s) Analyzed: 09/13/01 09/13/01

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	7.40	7.50	168		
Aroclor-1242	2	8.48	8.43	8.53	385		
	3	8.80	8.72	8.82	204		
COLUMN 1	4	9.21	9.16	9.26	718		
	5	9.64	9.59	9.69	624	420	
	1	7.72	7.67	7.77	161		
	2	8.71	8.67	8.77	404		
	3	8.98	8.95	9.05	221		
COLUMN 2	4	9.51	9.47	9.57	755		
	5	9.98	9.95	10.05	735	460	9.5
	1	10.46	10.41	10.51	206		
Aroclor-1254	2	11.02	10.96	11.06	313		
	3	11.86	11.81	11.91	211		
COLUMN 1	4	12.82	12.78	12.88	194		
	5	13.38	13.36	13.46	134	210	
	1	10.88	10.82	10.92	417		
	2	11.27	11.24	11.34	250		
	3	12.24	12.23	12.33	179		
COLUMN 2	4	13.06	13.04	13.14	176		
	5	13.76	13.75	13.85	116	230	9.5
	1	12.23	12.18	12.28	108		
Aroclor-1260	2	12.82	12.78	12.88	104		
	3	13.38	13.36	13.46	124		
COLUMN 1	4	14.05	14.01	14.11	49.0		
	5	14.61	14.57	14.67	34.6	84	
	1	12.63	12.60	12.70	108		
	2	13.06	13.05	13.15	115		
	3	13.35	13.36	13.46	132		
COLUMN 2	4	14.44	14.41	14.51	85.4		
	5	14.88	14.86	14.96	44.7	97	15.5

At least 3 peaks are required for identification of multicomponent analytes

page 1 of 1

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02N1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Lab Sample ID: 47292.04 Date(s) Analyzed: 09/13/01 09/13/01

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	7.40	7.50	18300		
Aroclor-1242	2	8.46	8.43	8.53	40300		
	3	8.76	8.72	8.82	9280		
COLUMN 1	4	9.20	9.16	9.26	27300		
	5	9.64	9.59	9.69	22400	24000	
	1	7.73	7.67	7.77	38600		
	2	8.72	8.67	8.77	63500		
	3	8.99	8.95	9.05	12000		
COLUMN 2	4	9.49	9.47	9.57	47700		
	5	9.97	9.95	10.05	39700	40000	66.7
	1	10.45	10.41	10.51	4050		
Aroclor-1254	2	11.01	10.96	11.06	5060		
	3	11.84	11.81	11.91	4470		
COLUMN 1	4	12.81	12.78	12.88	3140		
	5	13.37	13.36	13.46	2140	3800	
	1	10.86	10.82	10.92	12900		
	2	11.26	11.24	11.34	4120		
	3	12.21	12.23	12.33	5390		
COLUMN 2	4	13.04	13.04	13.14	3420		
	5	13.73	13.75	13.85	2690	5700	50.0
	1	12.22	12.18	12.28	1620		
Aroclor-1260	2	12.81	12.78	12.88	1680		
	3	13.37	13.36	13.46	1970		
COLUMN 1	4	14.05	14.01	14.11	752		
	5	14.60	14.57	14.67	576	1300	
	1	12.68	12.60	12.70	3420		
	2	13.04	13.05	13.15	2230		
	3						
COLUMN 2	4	14.43	14.41	14.51	1500		
	5	14.86	14.86	14.96	1060	2100	61.5

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02N1DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Lab Sample ID: 47292.04DL 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	32600		
Aroclor-1242	2	8.47	8.42	8.52	50000		
	3	8.79	8.72	8.82	16800		
COLUMN 1	4	9.21	9.15	9.25	43300		
	5	9.64	9.59	9.69	35500	36000	
	1	7.72	7.67	7.77	31300		
	2	8.70	8.67	8.77	53900		
	3	9.00	8.95	9.05	18100		
COLUMN 2	4	9.50	9.46	9.56	39800		
	5	9.98	9.94	10.04	33100	35000	2.9
	1	10.46	10.41	10.51	8560		
Aroclor-1254	2	11.01	10.96	11.06	8230		
	3	11.86	11.82	11.92	6980		
COLUMN 1	4	12.82	12.79	12.89	5520		
	5	13.38	13.36	13.46	2520	6400	
	1	10.87	10.82	10.92	15200		
	2	11.27	11.24	11.34	5610		
	3	12.24	12.23	12.33	5210		
COLUMN 2	4	13.06	13.04	13.14	5180		
	5	13.75	13.74	13.84	2180	6700	4.7
	1	12.23	12.18	12.28	3260		
Aroclor-1260	2	12.82	12.78	12.88	3070		
	3	13.38	13.36	13.46	2410		
COLUMN 1	4	14.06	14.01	14.11	1300		
	5	14.61	14.57	14.67	985	2200	
	1	12.63	12.59	12.69	2780		
	2	13.06	13.03	13.13	3300		
	3	13.34	13.35	13.45	2400		
COLUMN 2	4	14.44	14.40	14.50	1400		
	5	14.88	14.84	14.94	869	2100	4.8

At least 3 peaks are required for identification of multicomponent analytes

FORM X PCB

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02N2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Lab Sample ID: 47292.05 Date(s) Analyzed: 09/13/01 09/13/01

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	7.40	7.50	319		
Aroclor-1242	2	8.46	8.43	8.53	474		
	3	8.77	8.72	8.82	173		
COLUMN 1	4	9.20	9.16	9.26	543		
	5	9.64	9.59	9.69	390	380	
	1	7.72	7.67	7.77	335		
	2	8.69	8.67	8.77	578		
	3	8.99	8.95	9.05	187		
COLUMN 2	4	9.50	9.47	9.57	585		
	5	9.98	9.95	10.05	446	430	13.2
	1	10.45	10.41	10.51	125		
Aroclor-1254	2	11.01	10.96	11.06	155		
	3	11.85	11.81	11.91	129		
COLUMN 1	4	12.81	12.78	12.88	116		
	5	13.38	13.36	13.46	65.9	120	
	1	10.87	10.82	10.92	213		
	2	11.27	11.24	11.34	123		
	3	12.23	12.23	12.33	109		
COLUMN 2	4	13.06	13.04	13.14	92.4		
	5	13.74	13.75	13.85	55.2	120	0.0
	1	12.23	12.18	12.28	61.0		
Aroclor-1260	2	12.81	12.78	12.88	62.3		
	3	13.38	13.36	13.46	60.6		
COLUMN 1	4	14.05	14.01	14.11	23.0		
	5	14.61	14.57	14.67	23.3	46	
	1	12.62	12.60	12.70	53.4		
	2	13.06	13.05	13.15	60.3		
	3	13.34	13.36	13.46	51.2		
COLUMN 2	4	14.43	14.41	14.51	33.7		
	5	14.87	14.86	14.96	18.2	43	7.0

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02N3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Lab Sample ID: 47292.06 Date(s) Analyzed: 09/13/01 09/13/01

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	7.40	7.50	15.2		
Aroclor-1242	2	8.50	8.43	8.53	19.2		
	3	8.80	8.72	8.82	10.2		
COLUMN 1	4	9.21	9.16	9.26	44.6		
	5	9.64	9.59	9.69	38.9	26	
	1	7.72	7.67	7.77	11.3		
	2	8.72	8.67	8.77	19.7		
	3	8.97	8.95	9.05	20.9		
COLUMN 2	4	9.51	9.47	9.57	34.9		
	5	9.99	9.95	10.05	44.2	26	0.0
	1	10.46	10.41	10.51	21.5		
Aroclor-1254	2	11.02	10.96	11.06	14.3		
	3	11.86	11.81	11.91	13.8		
COLUMN 1	4	12.82	12.78	12.88	17.1		
	5	13.39	13.36	13.46	7.7	15	
	1						
	2	11.28	11.24	11.34	12.8		
	3	12.24	12.23	12.33	11.5		
COLUMN 2	4	13.08	13.04	13.14	16.8		
	5	13.76	13.75	13.85	6.6	12	25.0
	1	12.22	12.18	12.28	9.7		
Aroclor-1260	2	12.82	12.78	12.88	9.2		
	3	13.39	13.36	13.46	7.1		
COLUMN 1	4						
	5	14.62	14.57	14.67	2.0	7.0	
	1	12.63	12.60	12.70	7.7		
	2	13.08	13.05	13.15	10.9		
	3						
COLUMN 2	4	14.44	14.41	14.51	5.7		
	5	14.88	14.86	14.96	2.3	6.6	6.1

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02N4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Lab Sample ID: 47292.07 Date(s) Analyzed: 09/13/01 09/13/01

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	7.40	7.50	11.8		
Aroclor-1242	2	8.50	8.43	8.53	17.9		
	3	8.79	8.72	8.82	7.0		
COLUMN 1	4	9.21	9.16	9.26	29.2		
	5	9.64	9.59	9.69	23.4	18	
	1	7.72	7.67	7.77	10.7		
	2	8.72	8.67	8.77	16.6		
	3	9.01	8.95	9.05	16.1		
COLUMN 2	4	9.51	9.47	9.57	21.9		
	5	9.99	9.95	10.05	26.9	18	0.0
	1	10.45	10.41	10.51	13.6		
Aroclor-1254	2	11.02	10.96	11.06	9.2		
	3	11.86	11.81	11.91	8.2		
COLUMN 1	4	12.82	12.78	12.88	10.5		
	5	13.38	13.36	13.46	5.1	9.3	
	1						
	2	11.28	11.24	11.34	8.9		
	3	12.24	12.23	12.33	7.8		
COLUMN 2	4	13.08	13.04	13.14	11.6		
	5	13.76	13.75	13.85	4.9	8.3	12.0
	1	12.22	12.18	12.28	6.0		
Aroclor-1260	2	12.82	12.78	12.88	5.6		
	3	13.38	13.36	13.46	4.7		
COLUMN 1	4						
	5	14.62	14.57	14.67	1.0	4.4	
	1	12.63	12.60	12.70	4.5		
	2	13.08	13.05	13.15	7.6		
	3	13.30	13.36	13.46	7.3		
COLUMN 2	4	14.44	14.41	14.51	4.5		
	5	14.88	14.86	14.96	1.2	5.0	13.6

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02N5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Lab Sample ID: 47292.08 Date(s) Analyzed: 09/13/01 09/13/01

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	7.40	7.50	41.0		
Aroclor-1242	2	8.48	8.43	8.53	67.7		
	3	8.80	8.72	8.82	18.6		
COLUMN 1	4	9.21	9.16	9.26	54.0		
	5	9.65	9.59	9.69	46.5	46	
	1	7.72	7.67	7.77	35.2		
	2	8.72	8.67	8.77	52.4		
	3	9.01	8.95	9.05	30.2		
COLUMN 2	4	9.51	9.47	9.57	48.4		
	5	9.99	9.95	10.05	51.2	43	7.0
	1	10.46	10.41	10.51	12.9		
Aroclor-1254	2	11.02	10.96	11.06	12.2		
	3	11.86	11.81	11.91	10.5		
COLUMN 1	4	12.82	12.78	12.88	10.7		
	5	13.38	13.36	13.46	6.6	11	
	1						
	2						
	3	12.24	12.23	12.33	9.2		
COLUMN 2	4	13.07	13.04	13.14	8.4		
	5	13.76	13.75	13.85	4.8	7.5	46.7
	1	12.22	12.18	12.28	7.0		
Aroclor-1260	2	12.82	12.78	12.88	5.8		
	3	13.38	13.36	13.46	6.1		
COLUMN 1	4						
	5	14.62	14.57	14.67	1.4	5.1	
	1	12.63	12.60	12.70	4.6		
	2	13.07	13.05	13.15	7.6		
	3	13.34	13.36	13.46	6.9		
COLUMN 2	4	14.44	14.41	14.51	3.8		
	5	14.88	14.86	14.96	1.7	4.9	4.1

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E03N6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Lab Sample ID: 47292.09 Date(s) Analyzed: 09/13/01 09/13/01

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	7.40	7.50	42.4		
Aroclor-1242	2	8.48	8.43	8.53	62.6		
	3	8.80	8.72	8.82	32.8		
COLUMN 1	4	9.21	9.16	9.26	130		
	5	9.64	9.59	9.69	106	75	
	1	7.72	7.67	7.77	38.0		
	2	8.73	8.67	8.77	55.0		
	3	8.97	8.95	9.05	50.3		
COLUMN 2	4	9.51	9.47	9.57	122		
	5	9.99	9.95	10.05	124	78	4.0
	1	10.46	10.41	10.51	47.8		
Aroclor-1254	2	11.02	10.96	11.06	45.4		
	3	11.86	11.81	11.91	31.0		
COLUMN 1	4	12.83	12.78	12.88	28.3		
	5	13.39	13.36	13.46	18.5	34	
	1						
	2	11.28	11.24	11.34	46.7		
	3	12.25	12.23	12.33	25.3		
COLUMN 2	4	13.08	13.04	13.14	28.3		
	5	13.77	13.75	13.85	16.3	29	17.2
	1	12.23	12.18	12.28	19.4		
Aroclor-1260	2	12.83	12.78	12.88	15.2		
	3	13.39	13.36	13.46	17.0		
COLUMN 1	4	14.06	14.01	14.11	7.2		
	5	14.62	14.57	14.67	4.5	13	
	1	12.64	12.60	12.70	16.7		
	2	13.08	13.05	13.15	18.5		
	3	13.36	13.36	13.46	18.3		
COLUMN 2	4	14.44	14.41	14.51	11.2		
	5	14.89	14.86	14.96	6.0	14	7.7

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.

E02N8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Lab Sample ID: 47292.11 Date(s) Analyzed: 09/13/01 09/13/01

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	7.40	7.50	95.7		
Aroclor-1242	2	8.48	8.43	8.53	155		
	3	8.79	8.72	8.82	87.7		
COLUMN 1	4	9.21	9.16	9.26	235		
	5	9.65	9.59	9.69	217	160	
	1	7.72	7.67	7.77	96.8		
	2	8.71	8.67	8.77	172		
	3	8.99	8.95	9.05	95.3		
COLUMN 2	4	9.50	9.47	9.57	233		
	5	9.98	9.95	10.05	265	170	6.3
	1	10.46	10.41	10.51	59.2		
Aroclor-1254	2	11.02	10.96	11.06	120		
	3	11.86	11.81	11.91	57.0		
COLUMN 1	4	12.82	12.78	12.88	46.1		
	5	13.38	13.36	13.46	35.1	63	
	1	10.88	10.82	10.92	120		
	2	11.27	11.24	11.34	54.1		
	3	12.24	12.23	12.33	49.1		
COLUMN 2	4	13.06	13.04	13.14	62.3		
	5	13.76	13.75	13.85	30.1	63	0.0
	1	12.23	12.18	12.28	26.7		
Aroclor-1260	2	12.82	12.78	12.88	24.7		
	3	13.38	13.36	13.46	32.3		
COLUMN 1	4	14.06	14.01	14.11	11.0		
	5	14.61	14.57	14.67	11.3	21	
	1	12.63	12.60	12.70	26.4		
	2	13.06	13.05	13.15	40.6		
	3	13.40	13.36	13.46	21.0		
COLUMN 2	4	14.44	14.41	14.51	23.5		
	5	14.88	14.86	14.96	15.7	25	19.0

At least 3 peaks are required for identification of multicomponent analytes

FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02N8MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Lab Sample ID: 47292.12MS 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	7.45	7.40	7.50	69.3		
Aroclor-1242	2	8.48	8.43	8.53	132		
	3	8.80	8.72	8.82	76.1		
COLUMN 1	4	9.21	9.16	9.26	284		
	5	9.65	9.59	9.69	267	170	
	1	7.73	7.67	7.77	67.8		
	2	8.72	8.67	8.77	147		
	3	8.98	8.95	9.05	85.6		
COLUMN 2	4	9.51	9.47	9.57	303		
	5	9.99	9.95	10.05	490	220	29.4
	1	10.46	10.41	10.51	178		
Aroclor-1254	2	11.02	10.96	11.06	226		
	3	11.86	11.81	11.91	184		
COLUMN 1	4	12.83	12.78	12.88	168		
	5	13.39	13.36	13.46	143	180	
	1	10.87	10.82	10.92	339		
	2	11.28	11.24	11.34	218		
	3	12.24	12.23	12.33	163		
COLUMN 2	4	13.07	13.04	13.14	154		
	5	13.76	13.75	13.85	131	200	11.1
	1	12.24	12.18	12.28	102		
Aroclor-1260	2	12.83	12.78	12.88	90.3		
	3	13.39	13.36	13.46	131		
COLUMN 1	4	14.06	14.01	14.11	29.1		
	5	14.62	14.57	14.67	19.8	74	
	1	12.63	12.60	12.70	94.4		
	2	13.07	13.05	13.15	100		
	3	13.36	13.36	13.46	130		
COLUMN 2	4	14.41	14.41	14.51	69.5		
	5	14.88	14.86	14.96	27.1	84	13.5

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02N8MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Lab Sample ID: 47292.13MSD 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	7.45	7.40	7.50	47.6		
Aroclor-1242	2	8.48	8.43	8.53	87.8		
	3	8.80	8.72	8.82	57.9		
COLUMN 1	4	9.19	9.16	9.26	257		
	5	9.65	9.59	9.69	206	130	
	1	7.73	7.67	7.77	45.5		
	2	8.72	8.67	8.77	83.0		
	3	8.98	8.95	9.05	65.8		
COLUMN 2	4	9.51	9.47	9.57	245		
	5	9.99	9.95	10.05	372	160	23.1
	1	10.46	10.41	10.51	196		
Aroclor-1254	2	11.02	10.96	11.06	202		
	3	11.86	11.81	11.91	171		
COLUMN 1	4	12.83	12.78	12.88	161		
	5	13.39	13.36	13.46	137	170	
	1	10.87	10.82	10.92	275		
	2	11.28	11.24	11.34	204		
	3	12.25	12.23	12.33	148		
COLUMN 2	4	13.07	13.04	13.14	149		
	5	13.77	13.75	13.85	126	180	5.9
	1	12.24	12.18	12.28	95.8		
Aroclor-1260	2	12.83	12.78	12.88	86.2		
	3	13.39	13.36	13.46	126		
COLUMN 1	4	14.06	14.01	14.11	28.5		
	5	14.62	14.57	14.67	18.5	71	
	1	12.64	12.60	12.70	90.0		
	2	13.07	13.05	13.15	97.1		
	3	13.37	13.36	13.46	118		
COLUMN 2	4	14.42	14.41	14.51	64.8		
	5	14.88	14.86	14.96	25.4	79	11.3

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02N9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Lab Sample ID: 47292.14 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	7.45	7.40	7.50	43.8		
Aroclor-1242	2	8.48	8.43	8.53	58.7		
	3	8.80	8.72	8.82	28.3		
COLUMN 1	4	9.21	9.16	9.26	76.5		
	5	9.65	9.59	9.69	70.3	56	
	1	7.72	7.67	7.77	39.2		
	2	8.71	8.67	8.77	59.2		
	3	9.00	8.95	9.05	41.6		
COLUMN 2	4	9.51	9.47	9.57	66.3		
	5	9.99	9.95	10.05	83.4	58	3.6
	1	10.46	10.41	10.51	18.6		
Aroclor-1254	2	11.02	10.96	11.06	23.3		
	3	11.86	11.81	11.91	16.6		
COLUMN 1	4	12.82	12.78	12.88	16.9		
	5	13.39	13.36	13.46	13.0	18	
	1	10.88	10.82	10.92	31.1		
	2	11.28	11.24	11.34	11.6		
	3	12.24	12.23	12.33	12.7		
COLUMN 2	4	13.07	13.04	13.14	22.6		
	5	13.76	13.75	13.85	8.3	17	5.9
	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

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02P0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Lab Sample ID: 47292.15 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	7.45	7.40	7.50	148		
Aroclor-1242	2	8.48	8.43	8.53	271		
	3	8.78	8.72	8.82	88.6		
COLUMN 1	4	9.22	9.16	9.26	253		
	5	9.65	9.59	9.69	178	190	
	1	7.73	7.67	7.77	146		
	2	8.71	8.67	8.77	285		
	3	9.00	8.95	9.05	97.6		
COLUMN 2	4	9.51	9.47	9.57	248		
	5	9.99	9.95	10.05	205	200	5.3
	1	10.46	10.41	10.51	50.9		
Aroclor-1254	2	11.02	10.96	11.06	66.1		
	3	11.86	11.81	11.91	48.8		
COLUMN 1	4	12.82	12.78	12.88	43.4		
	5	13.39	13.36	13.46	37.1	49	
	1	10.89	10.82	10.92	90.4		
	2	11.28	11.24	11.34	50.0		
	3	12.24	12.23	12.33	39.4		
COLUMN 2	4	13.07	13.04	13.14	38.2		
	5	13.76	13.75	13.85	24.2	48	2.1
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02P1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Lab Sample ID: 47292.16 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	7.45	7.40	7.50	29.7		
Aroclor-1242	2	8.49	8.43	8.53	59.3		
	3	8.79	8.72	8.82	28.2		
COLUMN 1	4	9.22	9.16	9.26	70.5		
	5	9.65	9.59	9.69	62.7	50	
	1	7.73	7.67	7.77	26.3		
	2	8.72	8.67	8.77	46.4		
	3	9.01	8.95	9.05	38.1		
COLUMN 2	4	9.52	9.47	9.57	65.8		
	5	10.00	9.95	10.05	69.6	49	2.0
	1	10.46	10.41	10.51	32.0		
Aroclor-1254	2	11.03	10.96	11.06	31.3		
	3	11.87	11.81	11.91	21.9		
COLUMN 1	4	12.83	12.78	12.88	20.6		
	5	13.40	13.36	13.46	13.6	24	
	1						
	2	11.29	11.24	11.34	24.8		
	3	12.25	12.23	12.33	18.2		
COLUMN 2	4	13.08	13.04	13.14	19.5		
	5	13.77	13.75	13.85	11.4	18	33.3
	1	12.24	12.18	12.28	12.4		
Aroclor-1260	2	12.83	12.78	12.88	11.0		
	3	13.40	13.36	13.46	12.5		
COLUMN 1	4	14.06	14.01	14.11	5.7		
	5	14.62	14.57	14.67	4.2	9.2	
	1	12.64	12.60	12.70	11.6		
	2	13.08	13.05	13.15	12.7		
	3	13.36	13.36	13.46	12.2		
COLUMN 2	4	14.45	14.41	14.51	8.3		
	5	14.89	14.86	14.96	5.3	10	8.7

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02P2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Lab Sample ID: 47292.17 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	7.46	7.40	7.50	36.6		
Aroclor-1242	2	8.48	8.43	8.53	57.9		
	3	8.80	8.72	8.82	24.0		
COLUMN 1	4	9.22	9.16	9.26	70.7		
	5	9.65	9.59	9.69	52.2	48	
	1	7.73	7.67	7.77	33.1		
	2	8.72	8.67	8.77	47.5		
	3	9.00	8.95	9.05	32.6		
COLUMN 2	4	9.52	9.47	9.57	63.0		
	5	9.99	9.95	10.05	58.3	47	2.1
	1	10.46	10.41	10.51	29.2		
Aroclor-1254	2	11.02	10.96	11.06	26.2		
	3	11.87	11.81	11.91	18.8		
COLUMN 1	4	12.83	12.78	12.88	19.3		
	5	13.39	13.36	13.46	25.7	24	
	1						
	2	11.28	11.24	11.34	28.5		
	3	12.25	12.23	12.33	15.6		
COLUMN 2	4	13.07	13.04	13.14	17.9		
	5	13.76	13.75	13.85	12.2	19	26.3
	1	12.24	12.18	12.28	10.8		
Aroclor-1260	2	12.83	12.78	12.88	10.3		
	3	13.40	13.36	13.46	6.2		
COLUMN 1	4	14.06	14.01	14.11	5.1		
	5	14.62	14.57	14.67	3.2	7.1	
	1	12.64	12.60	12.70	9.4		
	2	13.07	13.05	13.15	11.7		
	3	13.35	13.36	13.46	9.9		
COLUMN 2	4	14.44	14.41	14.51	7.2		
	5	14.88	14.86	14.96	3.3	8.3	16.9

At least 3 peaks are required for identification of multicomponent analytes

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02P3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Lab Sample ID: 47292.18 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	7.46	7.40	7.50	80.5		
Aroclor-1242	2	8.48	8.43	8.53	133		
	3	8.79	8.72	8.82	68.5		
COLUMN 1	4	9.21	9.16	9.26	169		
	5	9.65	9.59	9.69	136	120	
	1	7.73	7.67	7.77	78.9		
	2	8.72	8.67	8.77	134		
	3	9.00	8.95	9.05	71.9		
COLUMN 2	4	9.51	9.47	9.57	162		
	5	9.99	9.95	10.05	243	140	16.7
	1	10.47	10.41	10.51	100		
Aroclor-1254	2	11.02	10.96	11.06	121		
	3	11.87	11.81	11.91	101		
COLUMN 1	4	12.83	12.78	12.88	104		
	5	13.39	13.36	13.46	83.9	100	
	1	10.88	10.82	10.92	167		
	2	11.28	11.24	11.34	118		
	3	12.25	12.23	12.33	84.8		
COLUMN 2	4	13.07	13.04	13.14	93.9		
	5	13.76	13.75	13.85	72.5	110	10.0
	1	12.24	12.18	12.28	53.8		
Aroclor-1260	2	12.83	12.78	12.88	55.9		
	3	13.39	13.36	13.46	77.1		
COLUMN 1	4	14.06	14.01	14.11	26.8		
	5	14.62	14.57	14.67	19.7	47	
	1	12.64	12.60	12.70	53.3		
	2	13.07	13.05	13.15	61.3		
	3	13.36	13.36	13.46	70.6		
COLUMN 2	4	14.44	14.41	14.51	46.8		
	5	14.88	14.86	14.96	24.4	51	8.5

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E02P4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Lab Sample ID: 47292.19 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	7.46	7.40	7.50	25.0		
Aroclor-1242	2	8.49	8.43	8.53	46.5		
	3	8.81	8.72	8.82	28.0		
COLUMN 1	4	9.22	9.16	9.26	110		
	5	9.65	9.59	9.69	92.5	60	
	1	7.73	7.67	7.77	26.9		
	2	8.72	8.67	8.77	46.6		
	3	8.99	8.95	9.05	43.0		
COLUMN 2	4	9.51	9.47	9.57	107		
	5	9.99	9.95	10.05	103	65	8.3
	1	10.46	10.41	10.51	47.6		
Aroclor-1254	2	11.02	10.96	11.06	60.6		
	3	11.86	11.81	11.91	40.5		
COLUMN 1	4	12.83	12.78	12.88	39.0		
	5	13.39	13.36	13.46	25.8	43	
	1	10.88	10.82	10.92	72.3		
	2	11.28	11.24	11.34	42.0		
	3	12.24	12.23	12.33	32.3		
COLUMN 2	4	13.07	13.04	13.14	37.6		
	5	13.76	13.75	13.85	21.3	41	4.9
	1	12.24	12.18	12.28	22.4		
Aroclor-1260	2	12.83	12.78	12.88	20.9		
	3	13.39	13.36	13.46	23.7		
COLUMN 1	4	14.06	14.01	14.11	8.8		
	5	14.62	14.57	14.67	7.6	17	
	1	12.64	12.60	12.70	21.3		
	2	13.07	13.05	13.15	24.5		
	3	13.35	13.36	13.46	21.3		
COLUMN 2	4	14.44	14.41	14.51	15.8		
	5	14.88	14.86	14.96	9.3	18	5.9

At least 3 peaks are required for identification of multicomponent analytes

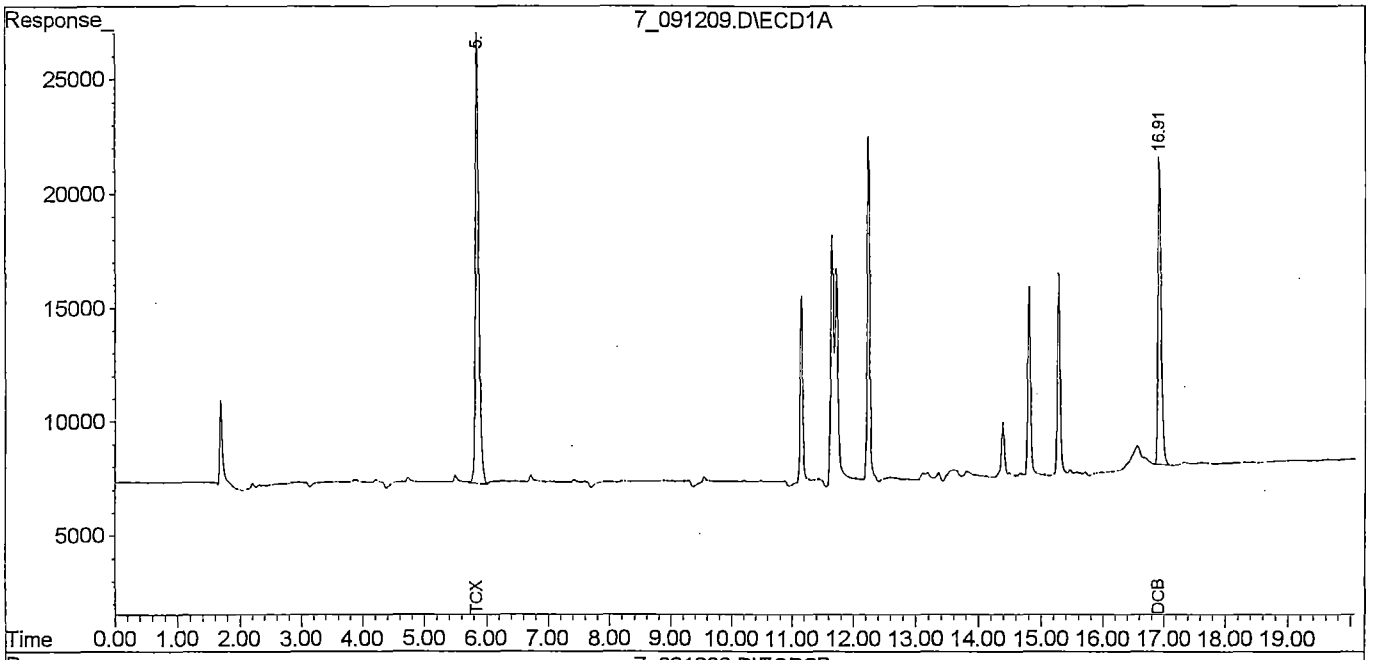
FORM X PCB

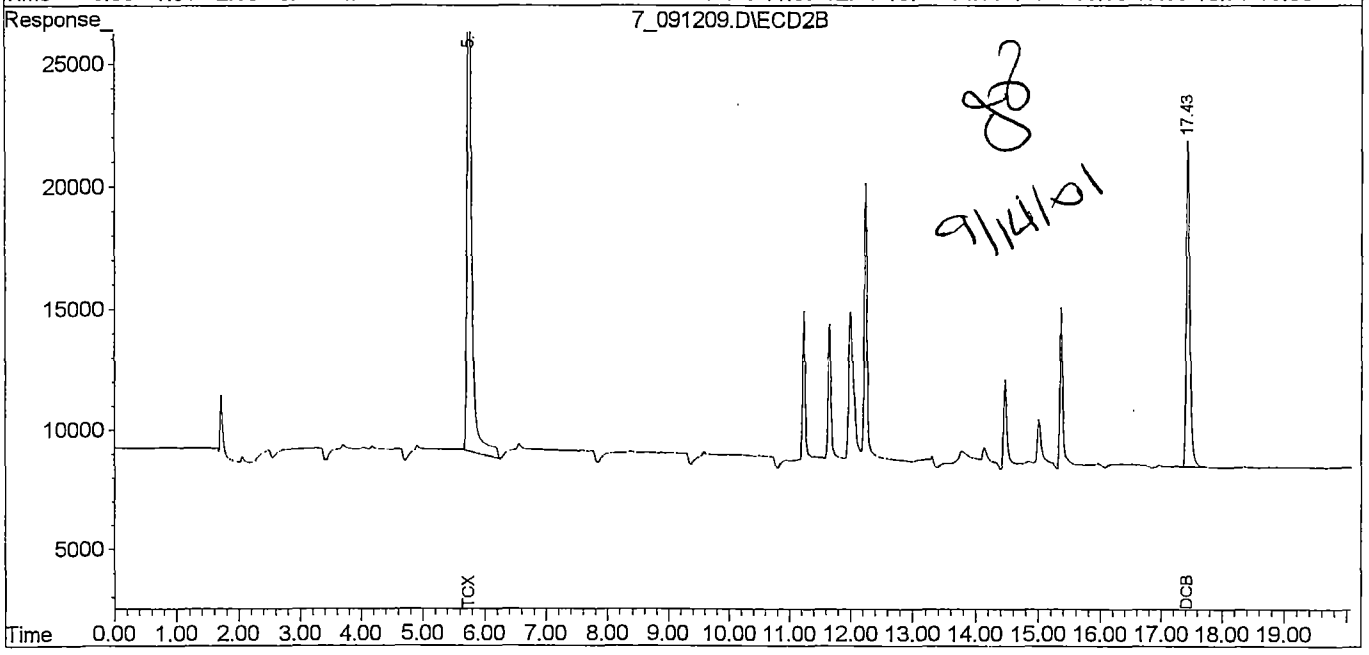
Chromatographic Report

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





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:						

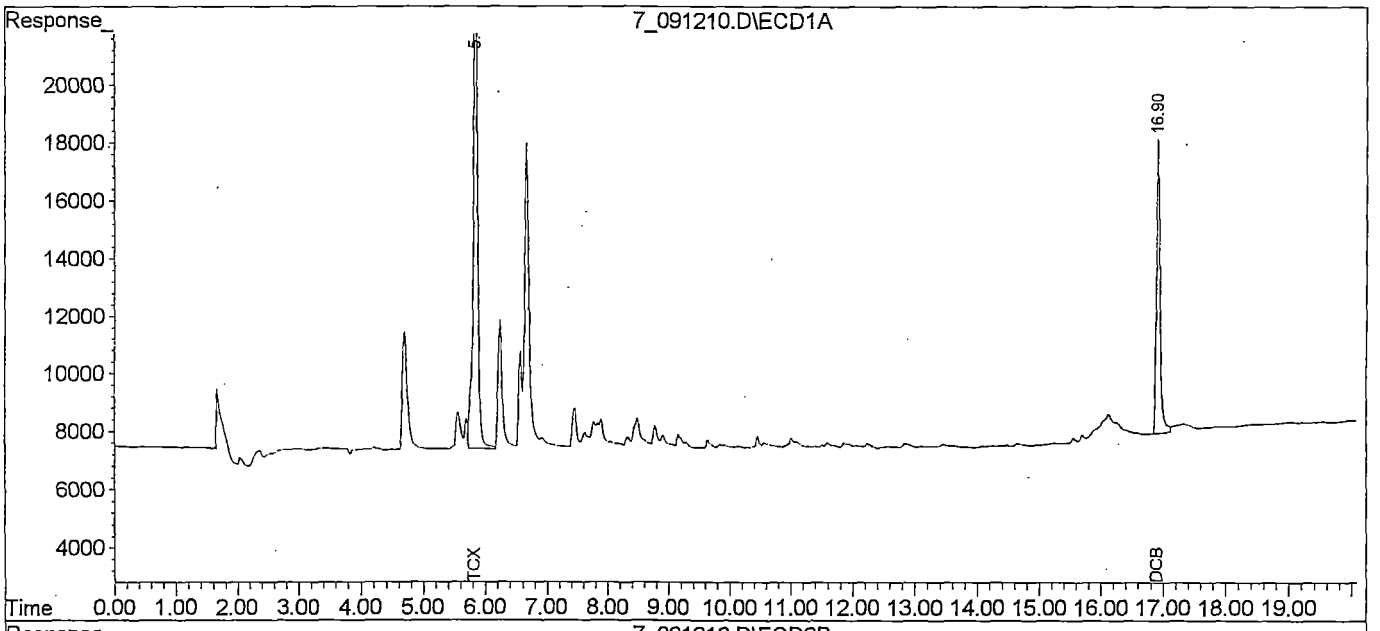
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

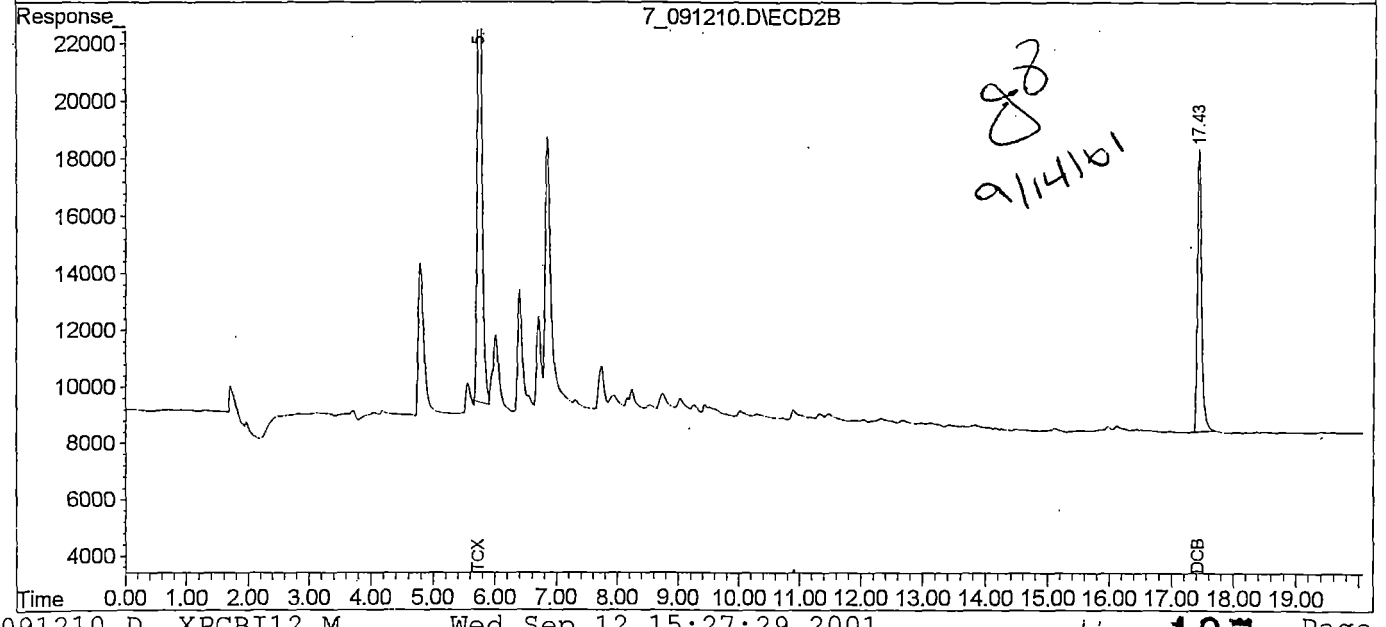
Chromatographic Report

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





gB
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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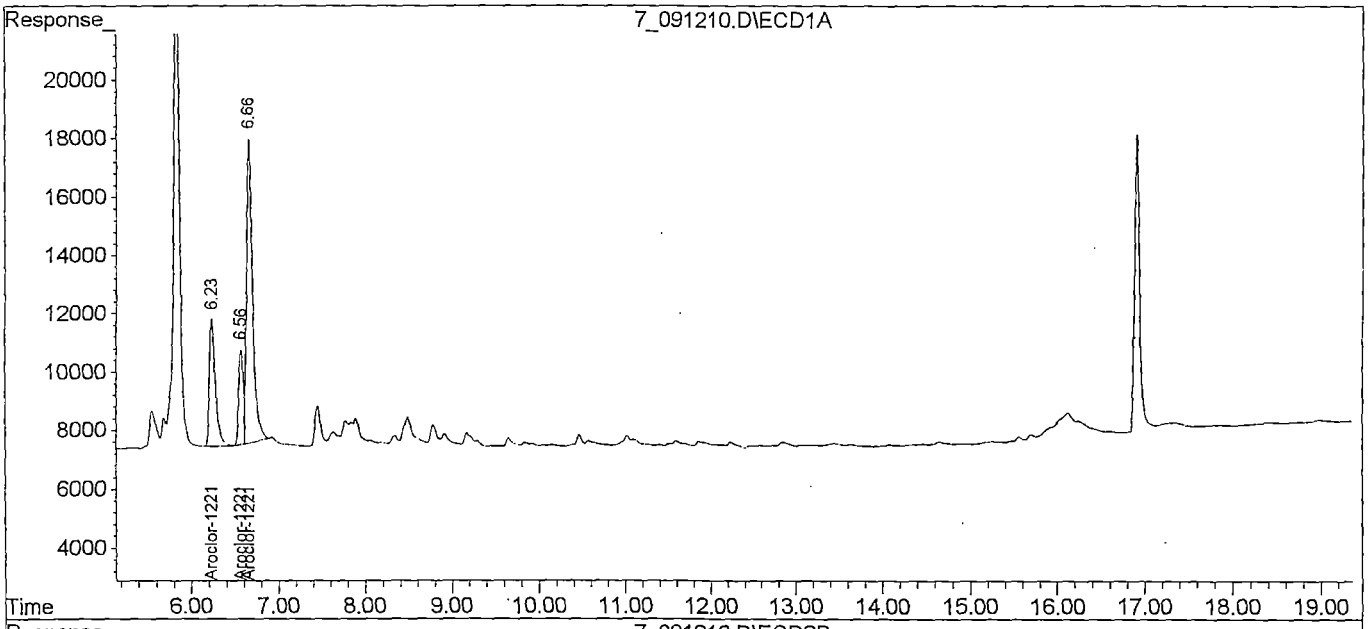
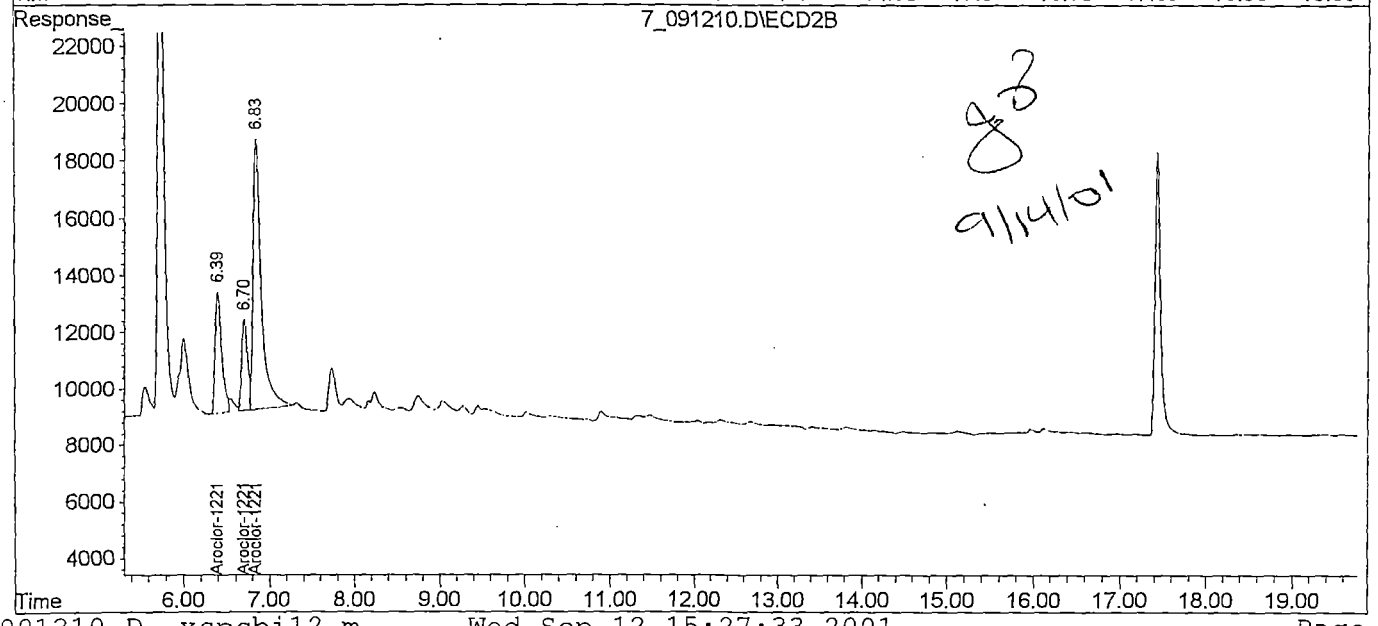




gB
9/14/01

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

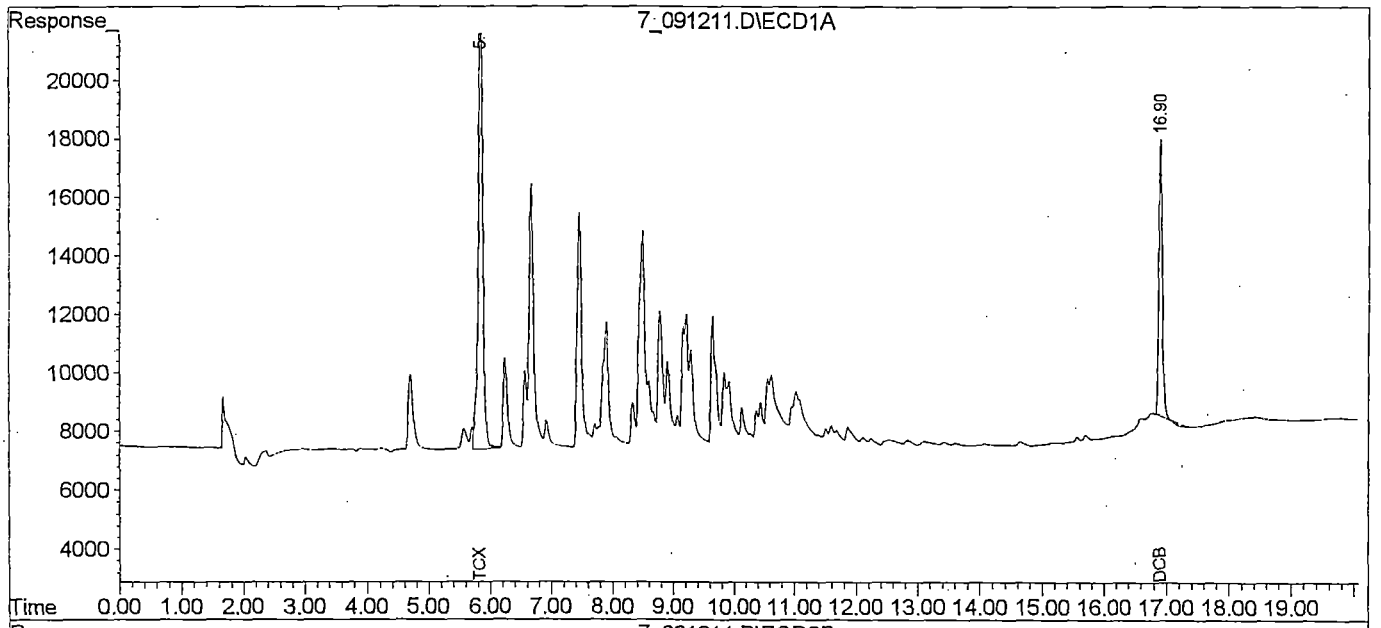
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

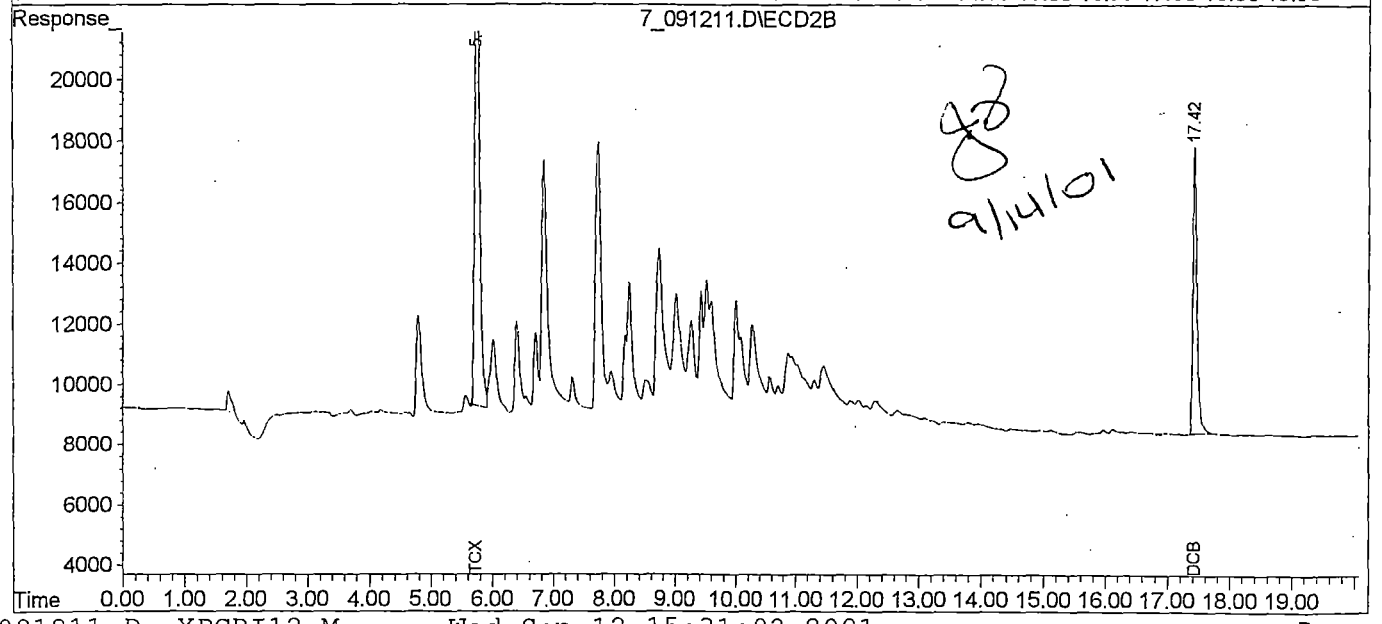
Chromatographic Report

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





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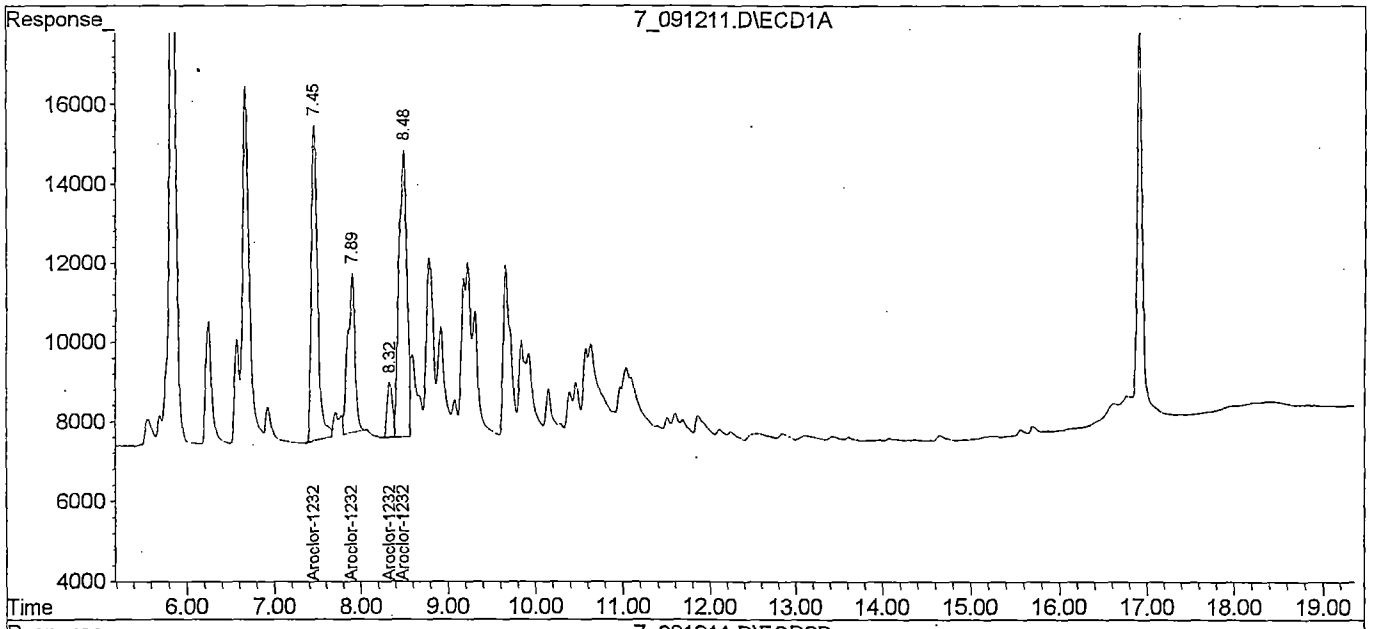
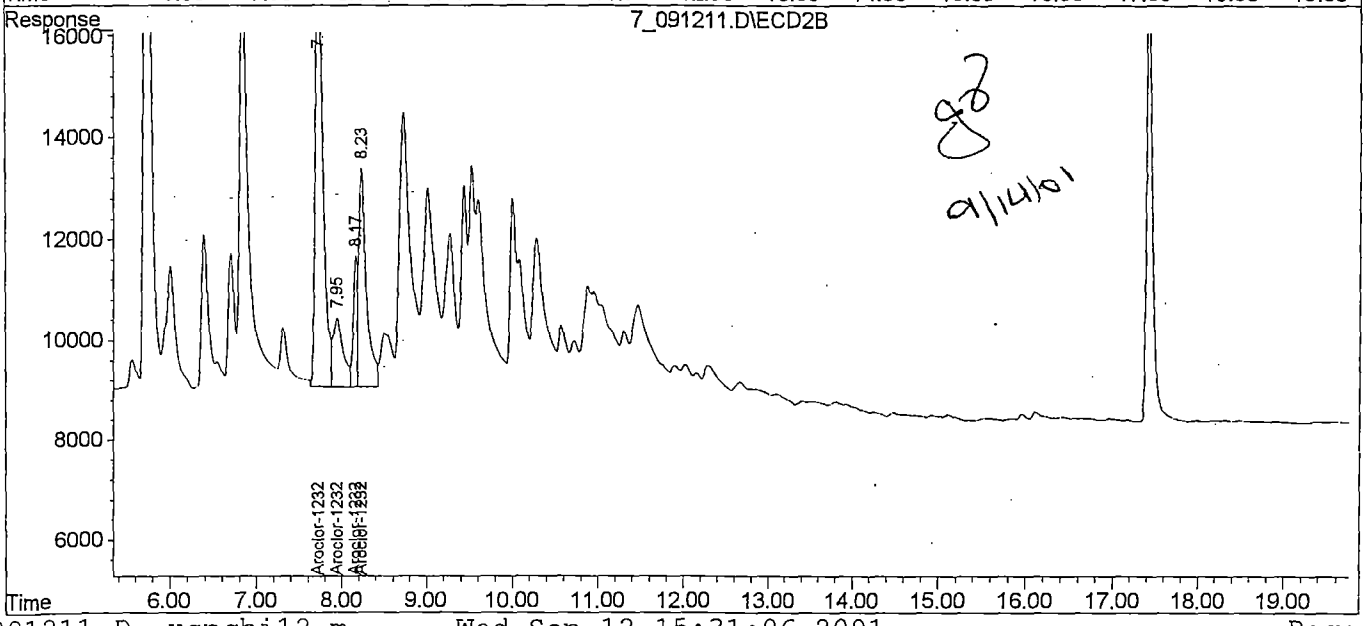
Chromatographic Report

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





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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

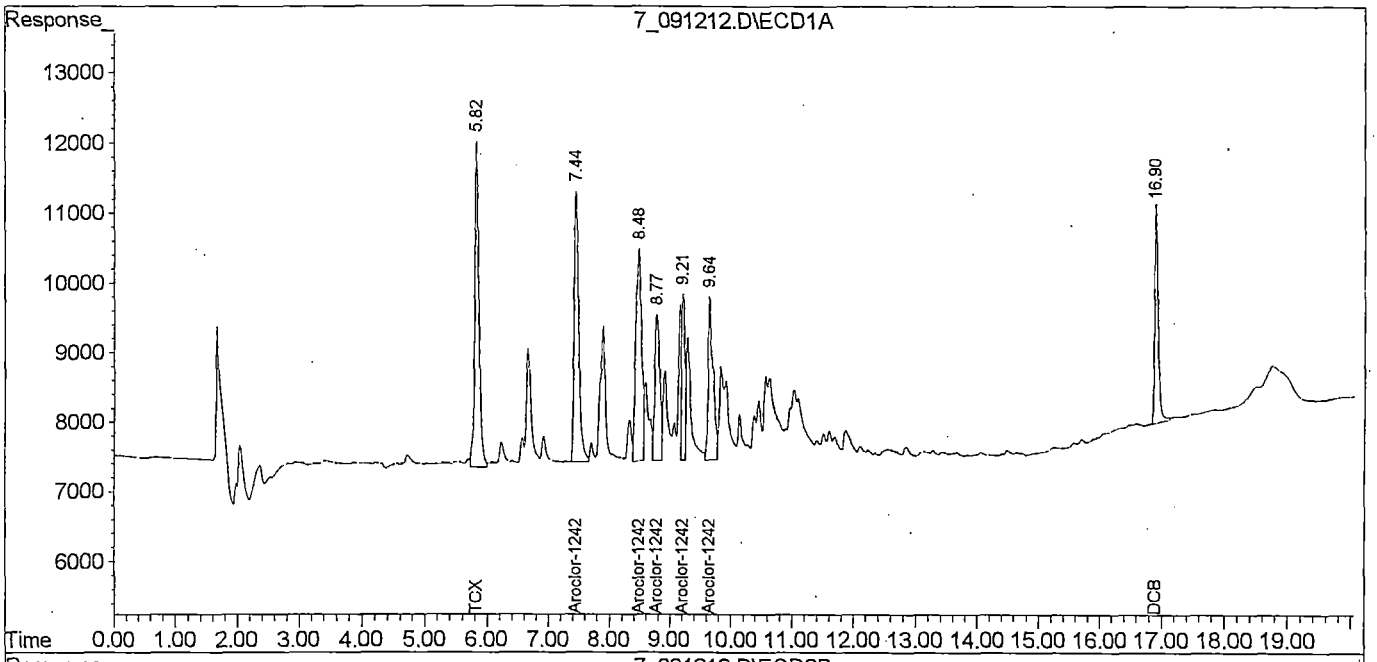
XPCBI12.M Wed Sep 12 15:38:40 2001

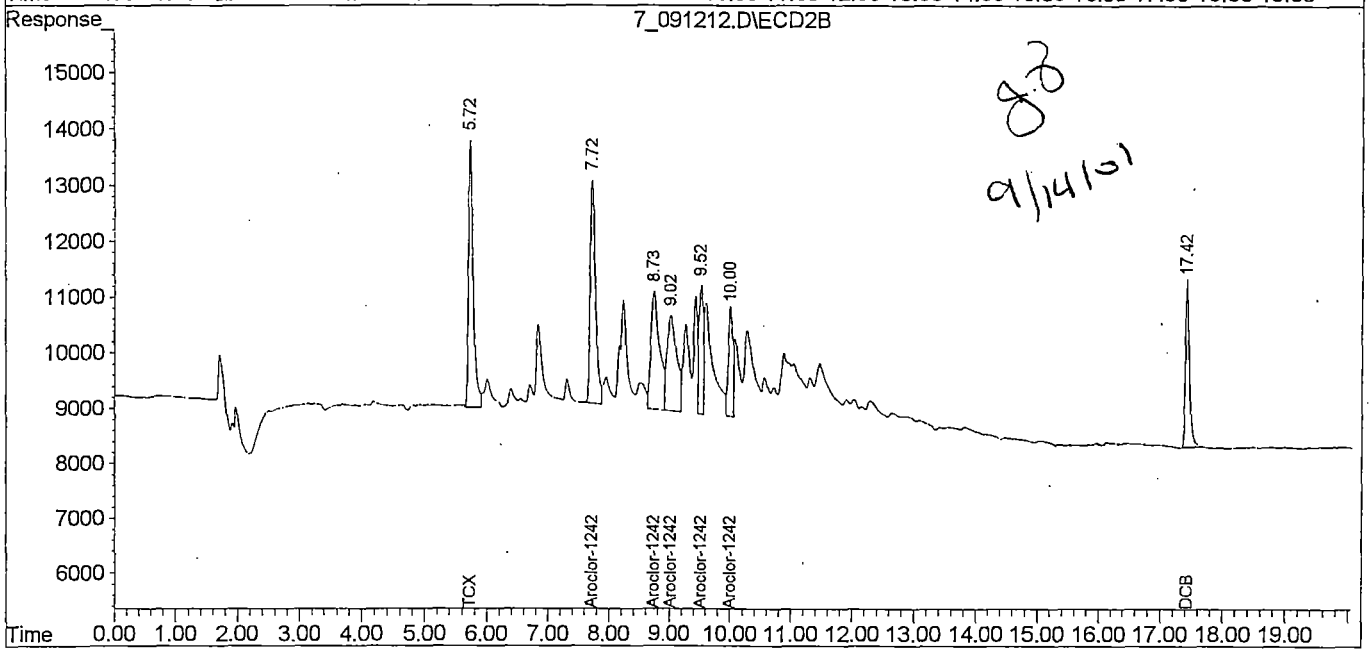
Chromatographic Report

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





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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

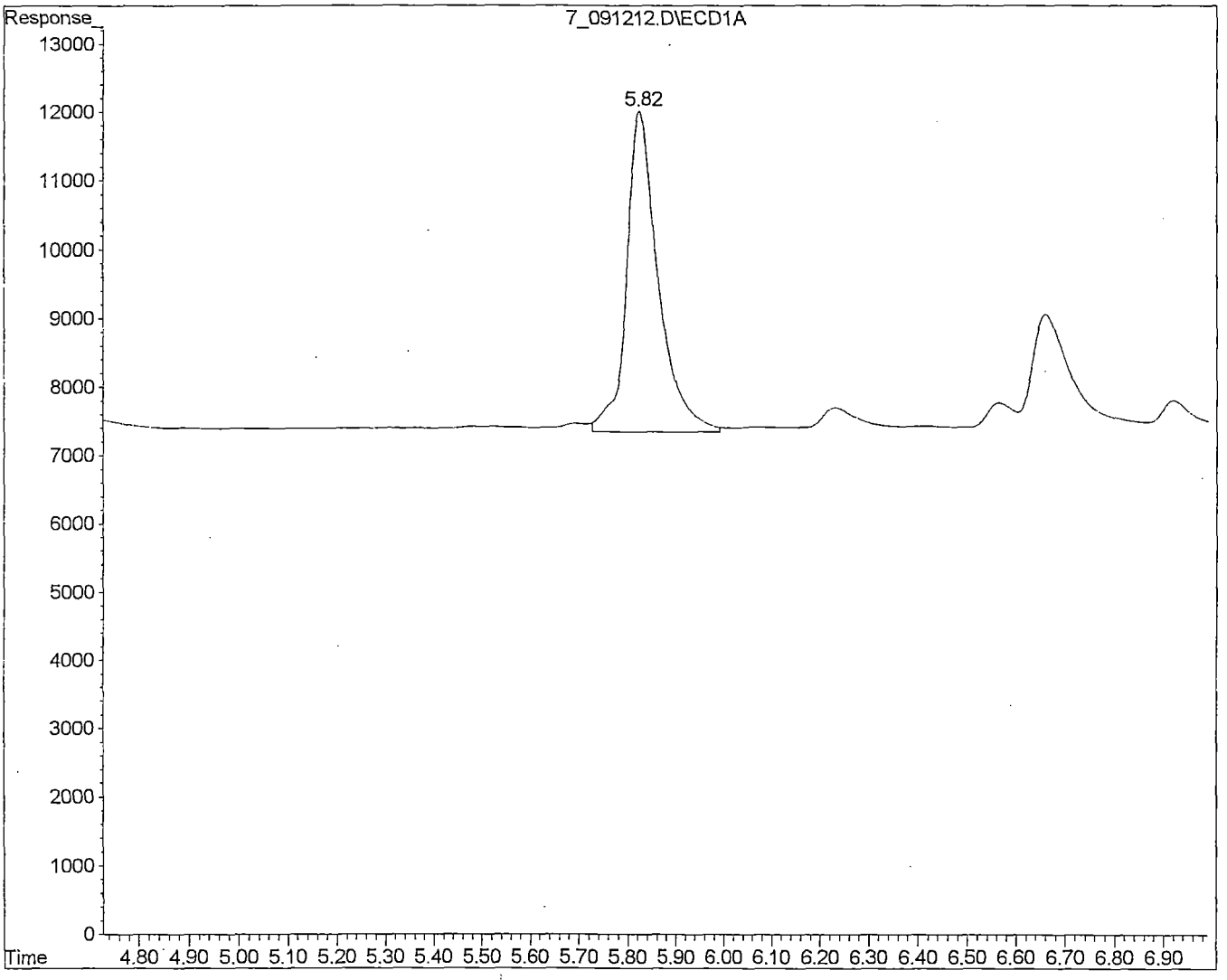
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82f	5.72f	213929	246537	4.885m	4.340m
22)	S DCB	16.90f	17.42f	122089	135575	4.999	4.888
	Target Compounds:						
7)	L4 Aroclor-1242	7.44	7.72	203012	253351	103.7	96.6
8)	L4 Aroclor-1242 {2}	8.48	8.74	200493	212439	95.6	99.4
9)	L4 Aroclor-1242 {3}	8.77	9.02	122628	192295	101.2	98.6
)	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

cd 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



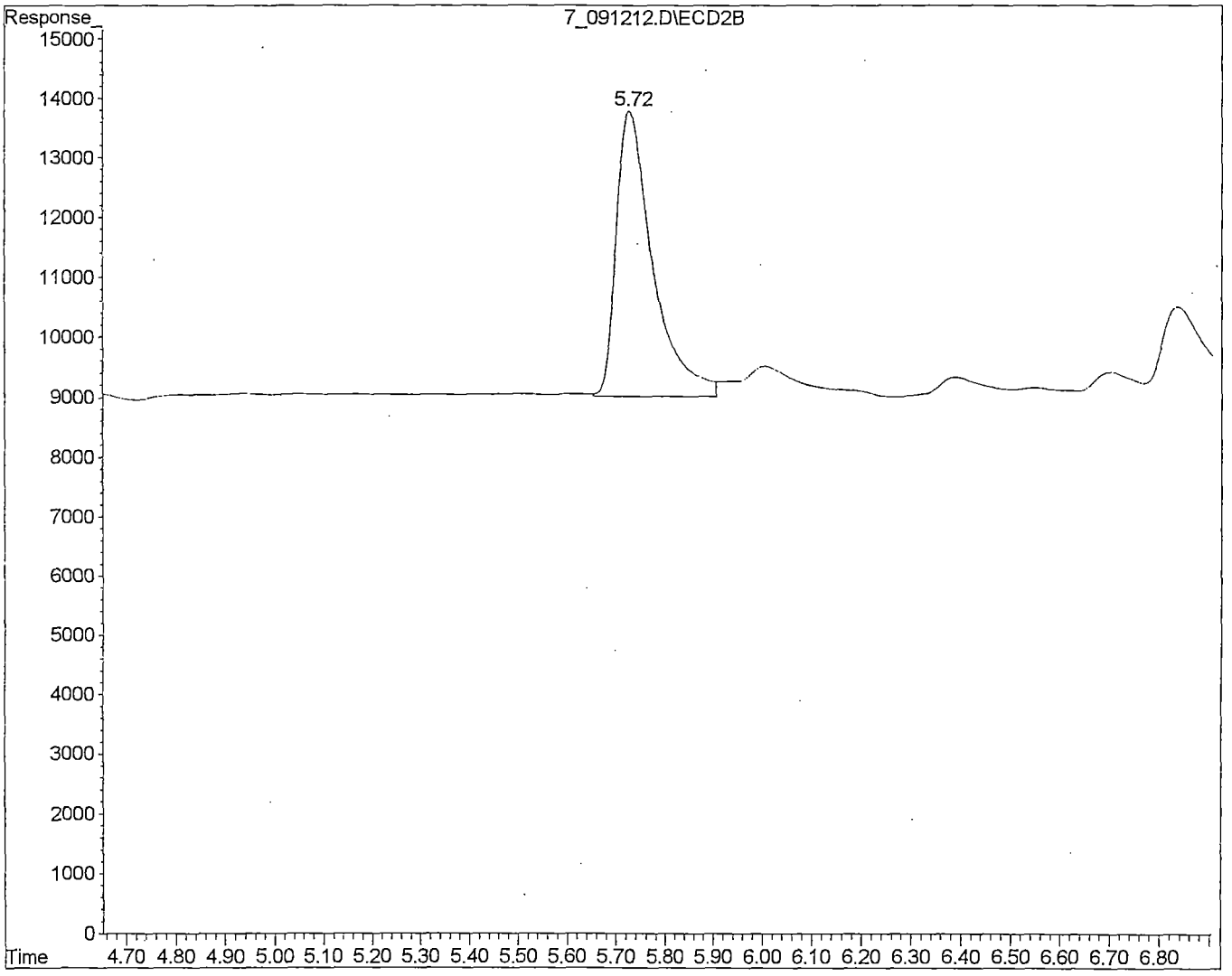
TCX 5.82min area: 213929 m

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

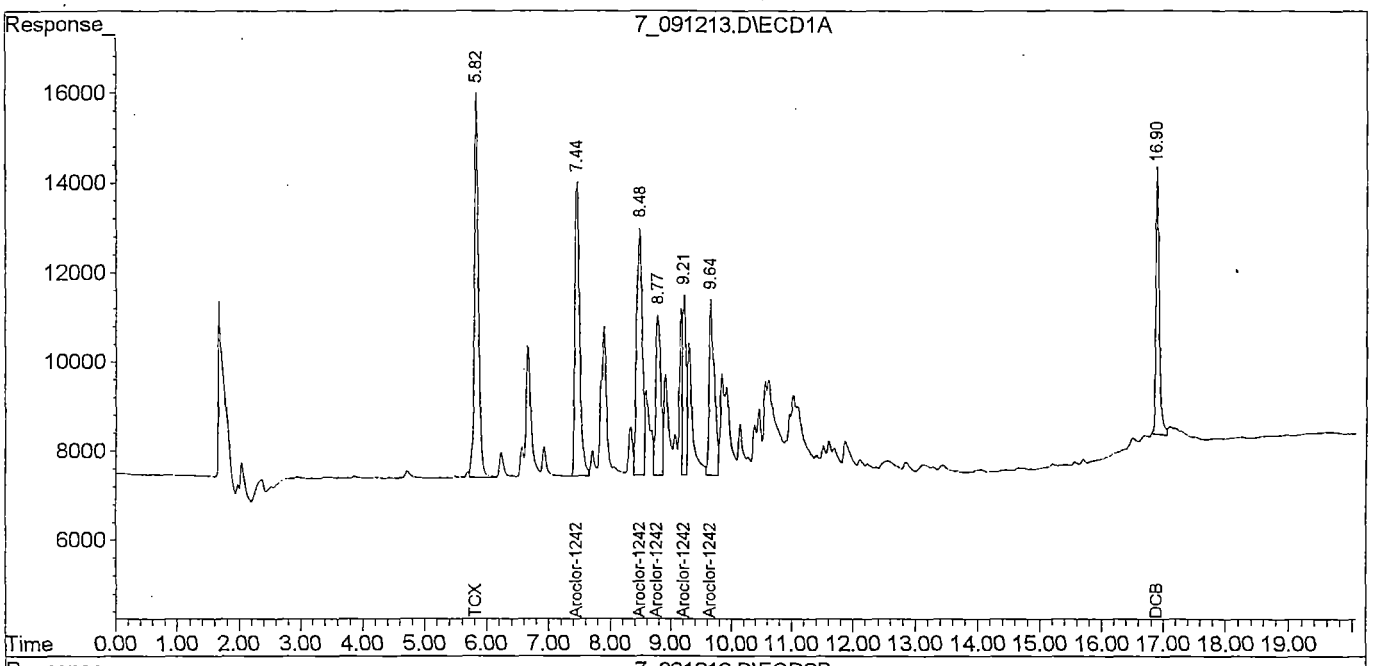
F:\HPCHEM\HP\7\DATA\09_12_01\7_091212.D
Report generated: Wed Sep 12 15:40:28 2001

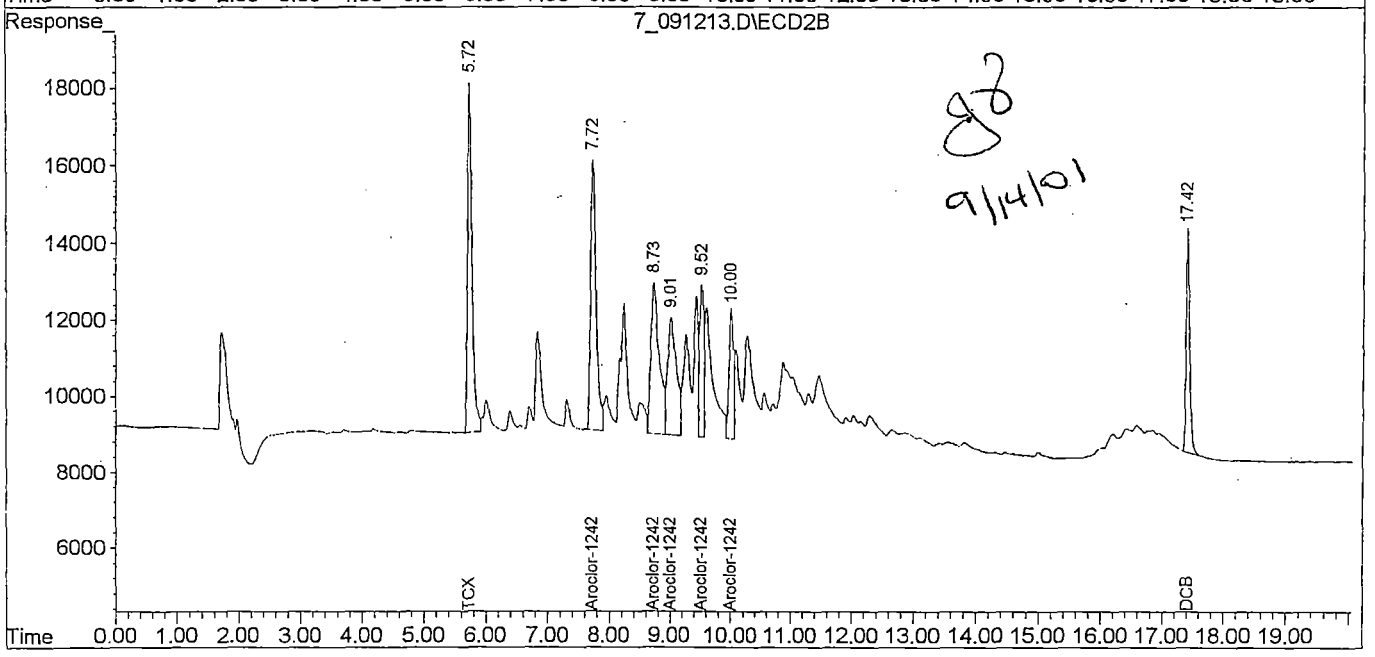
Chromatographic Report

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





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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
1)	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

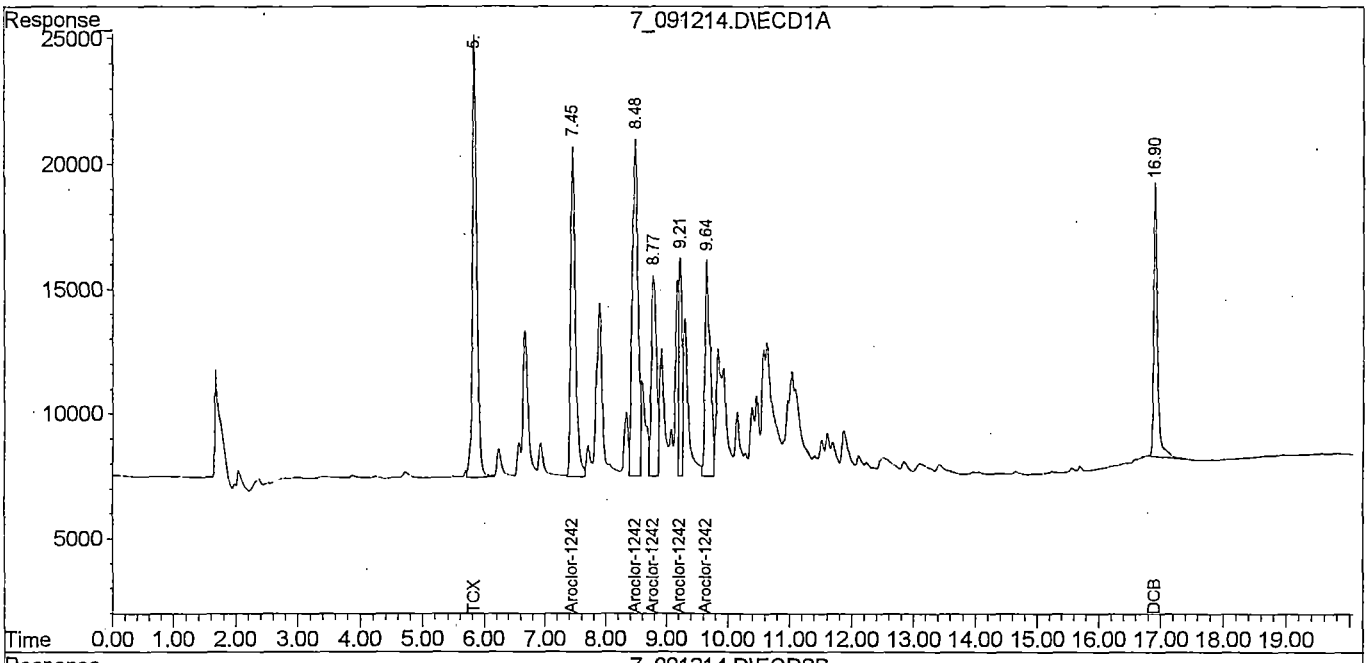
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

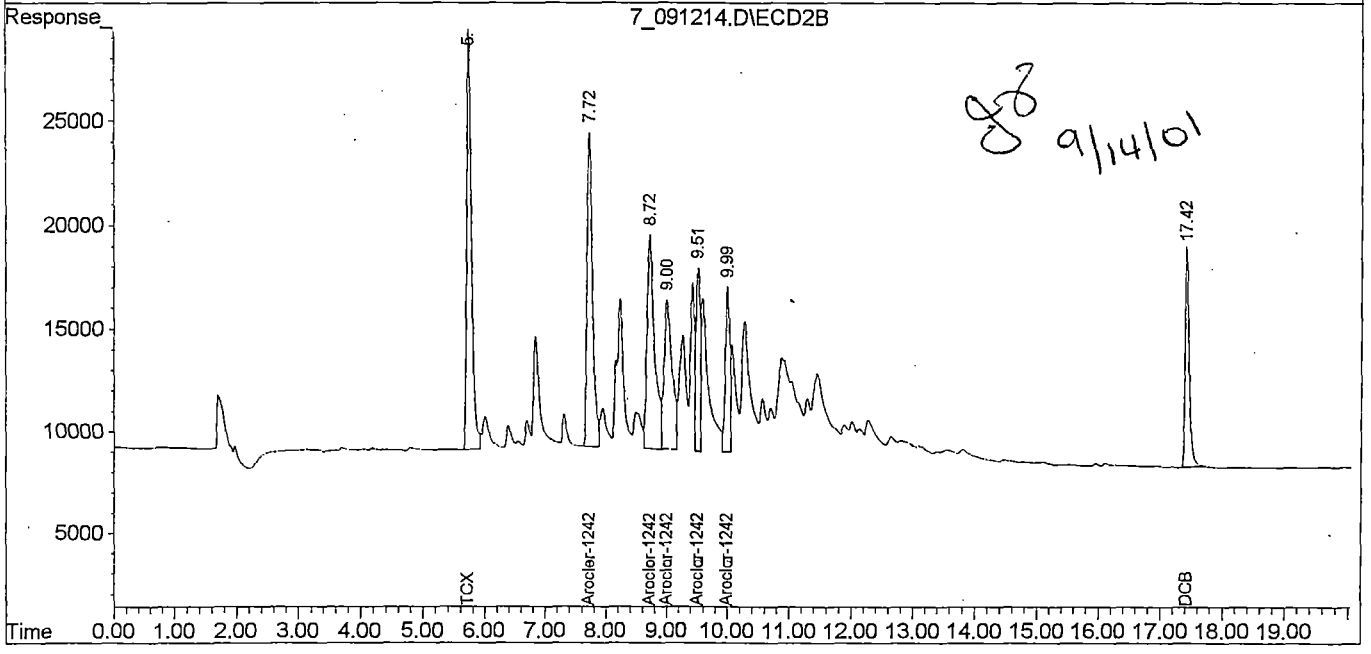
Chromatographic Report

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
)	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

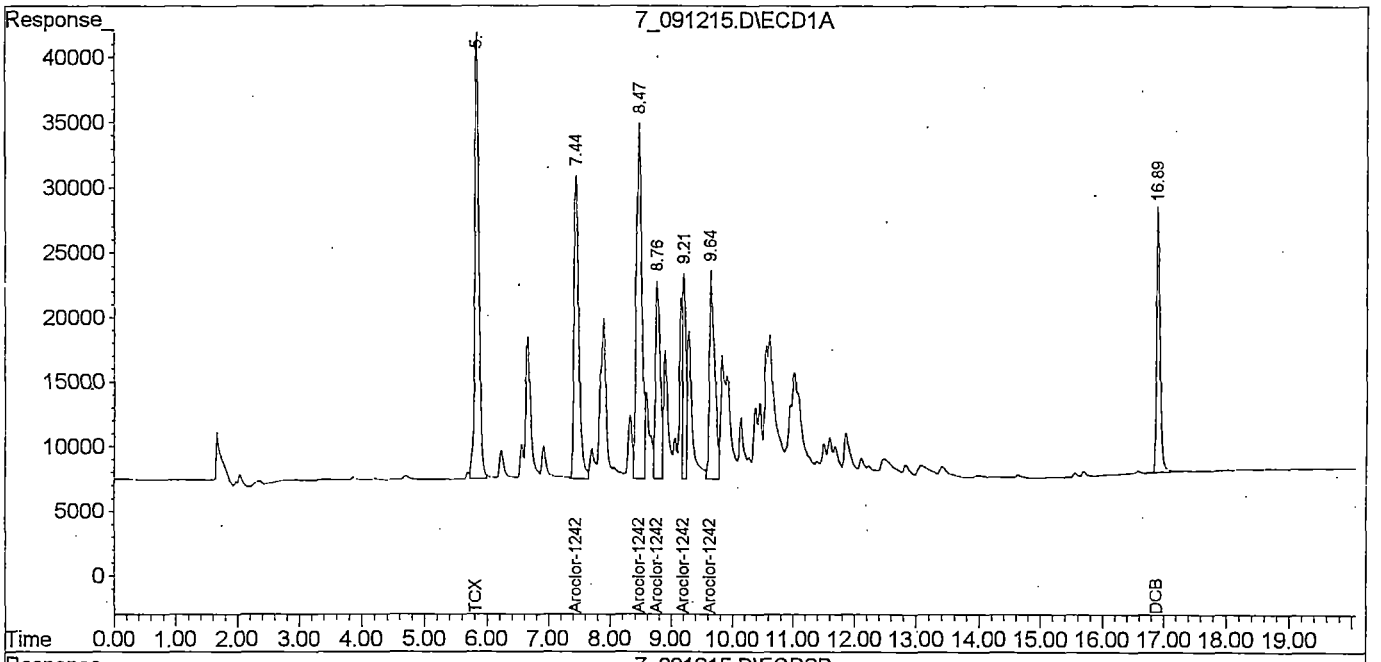
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

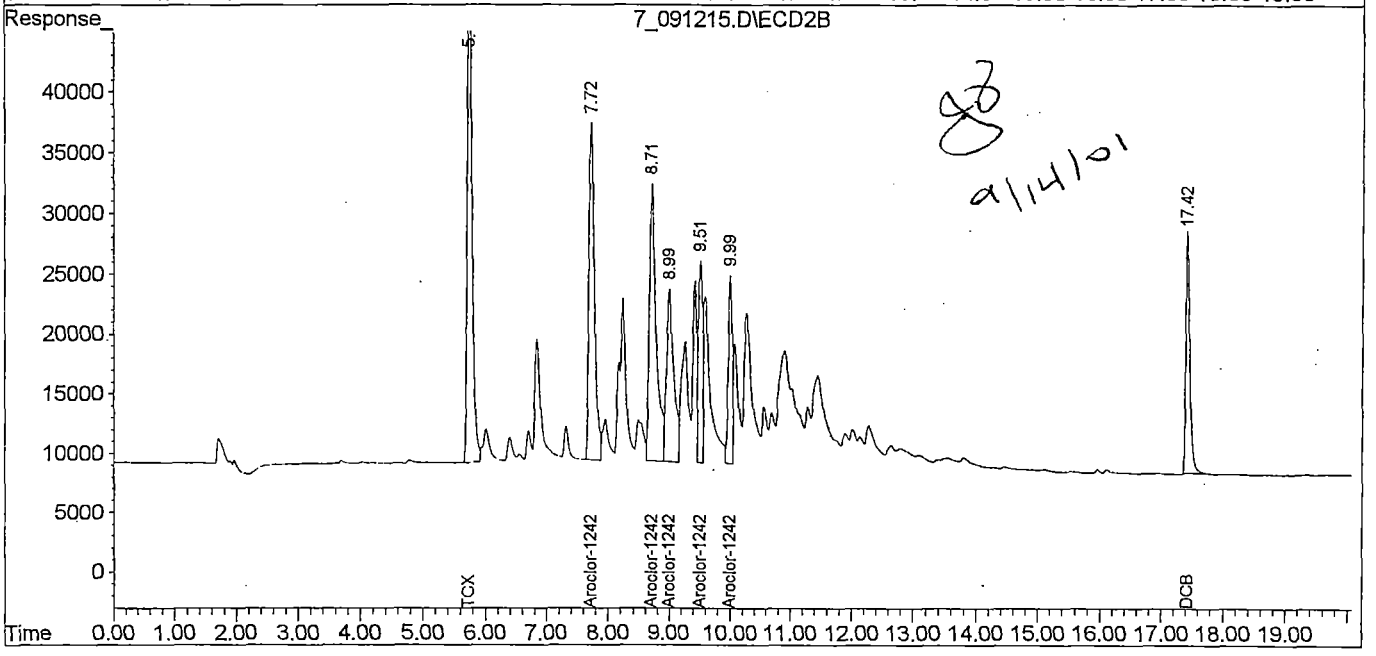
Chromatographic Report

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

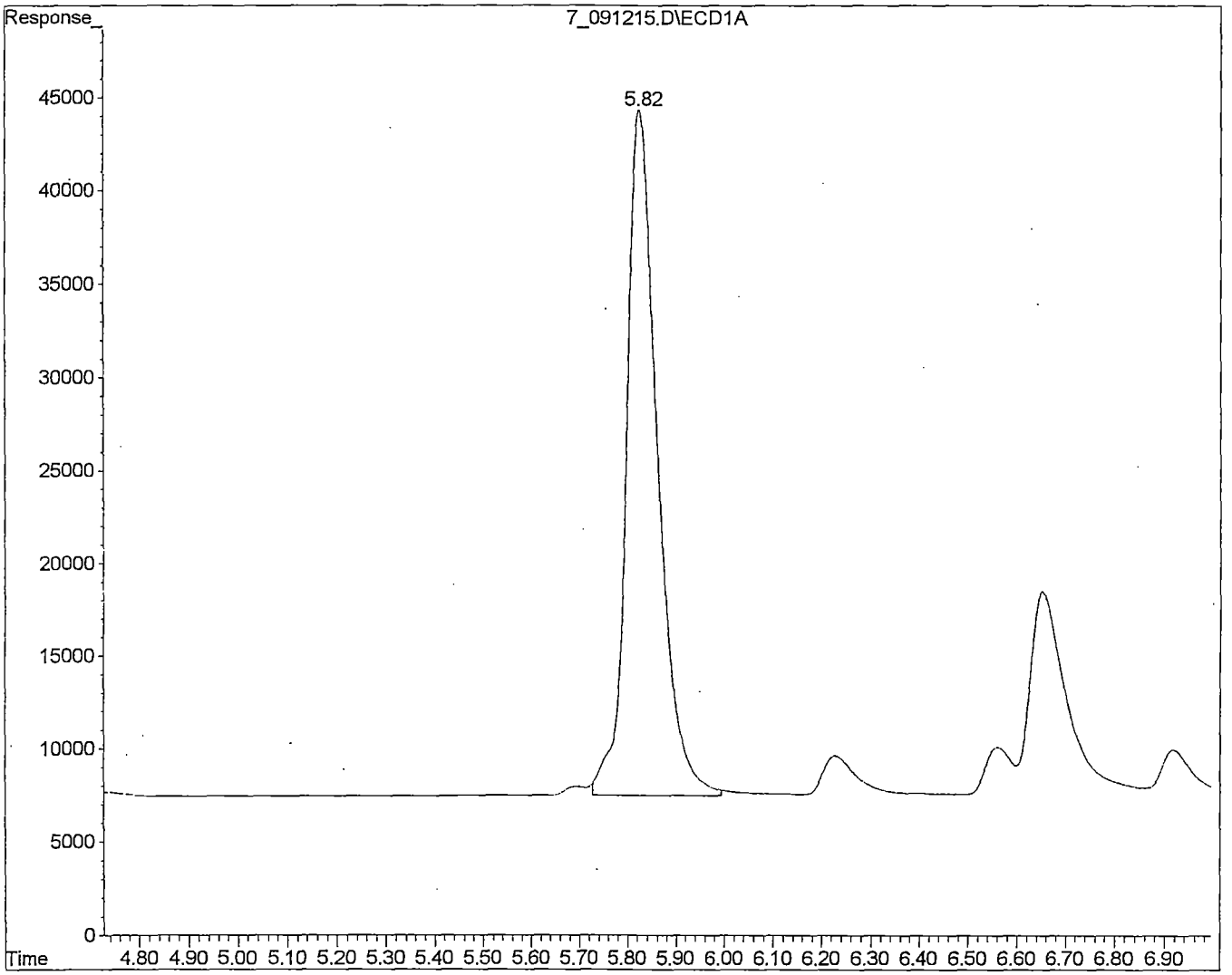
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82f	5.73f	1627990	2245056	37.2m	39.5
22)	S DCB	16.90f	17.42f	808203	895579	33.1	32.3
	Target Compounds:						
7)	L4 Aroclor-1242	7.44	7.72	1259222	1738230	643.0	663.0
8)	L4 Aroclor-1242 {2}	8.47	8.71f	1700274	1847293	810.6	864.1
)	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

dsg.12-9

(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_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



TCX 5.82min area: 1627990 m

Integration Time Range: 5.73 - 5.99

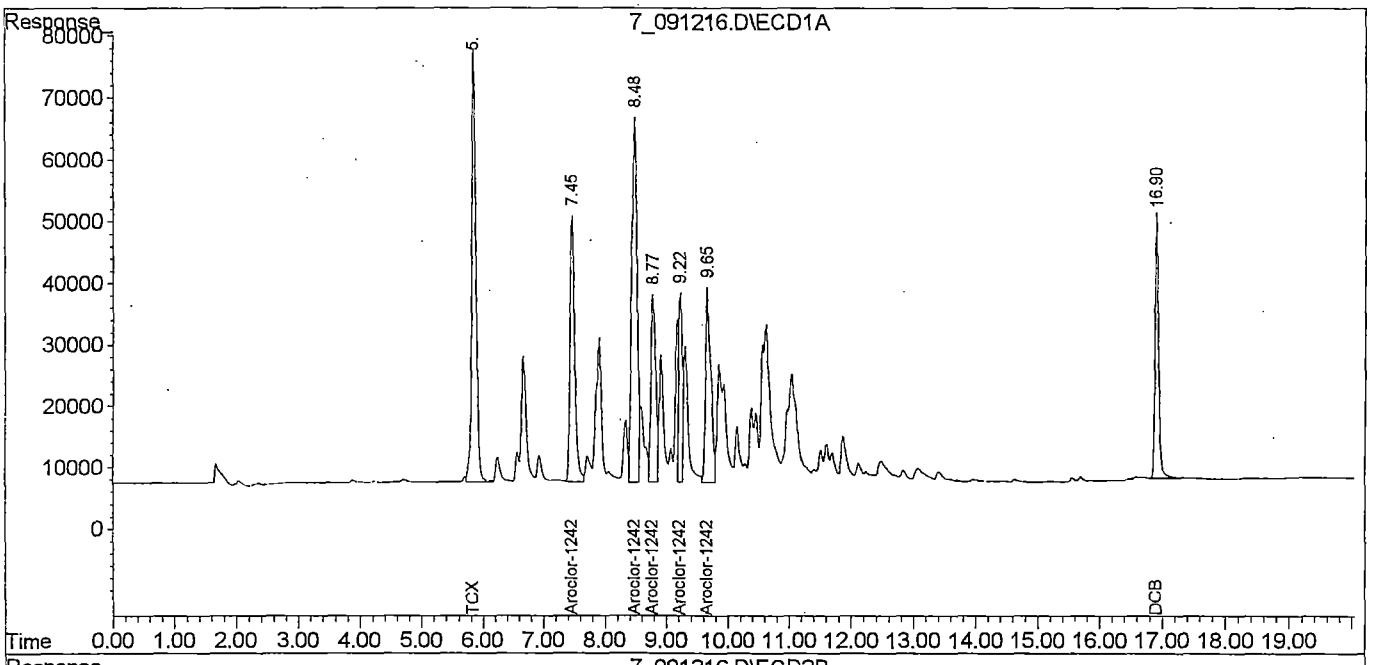
F:\HPCHEM\HP\7\DATA\09_12_01\7_091215.D
Report generated: Wed Sep 12 15:40:31 2001

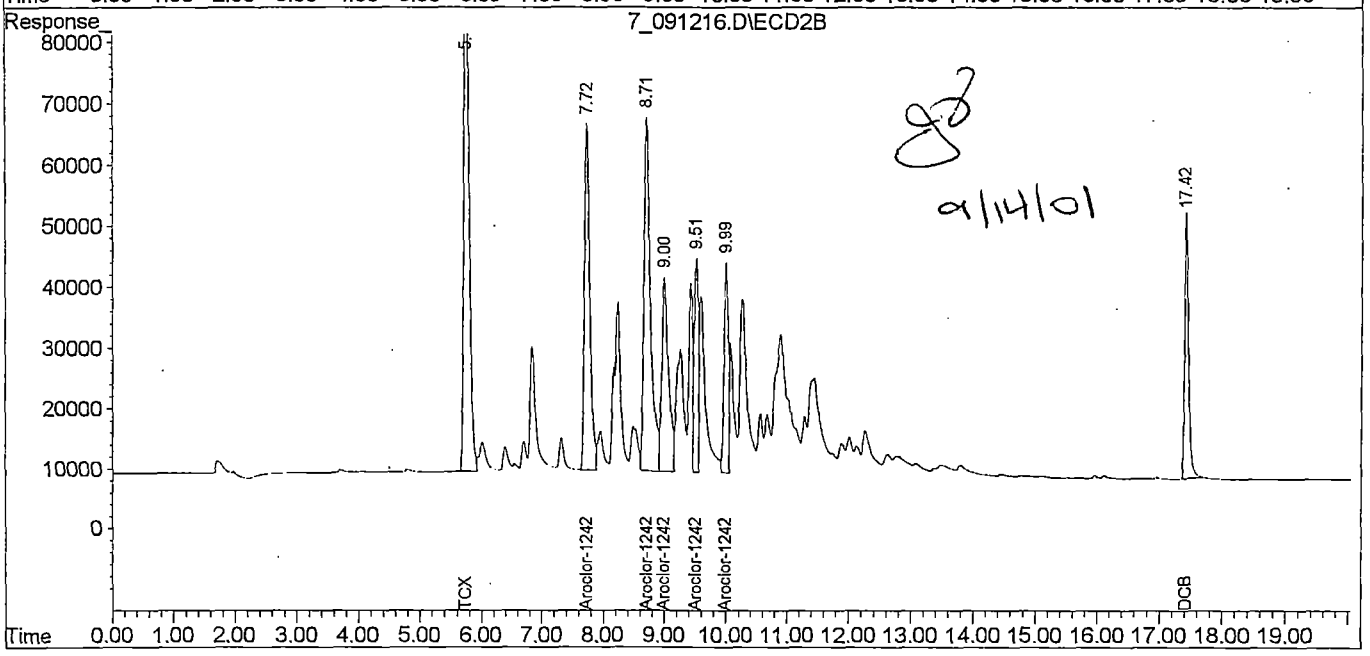
Chromatographic Report

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

Quantitation 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 : 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

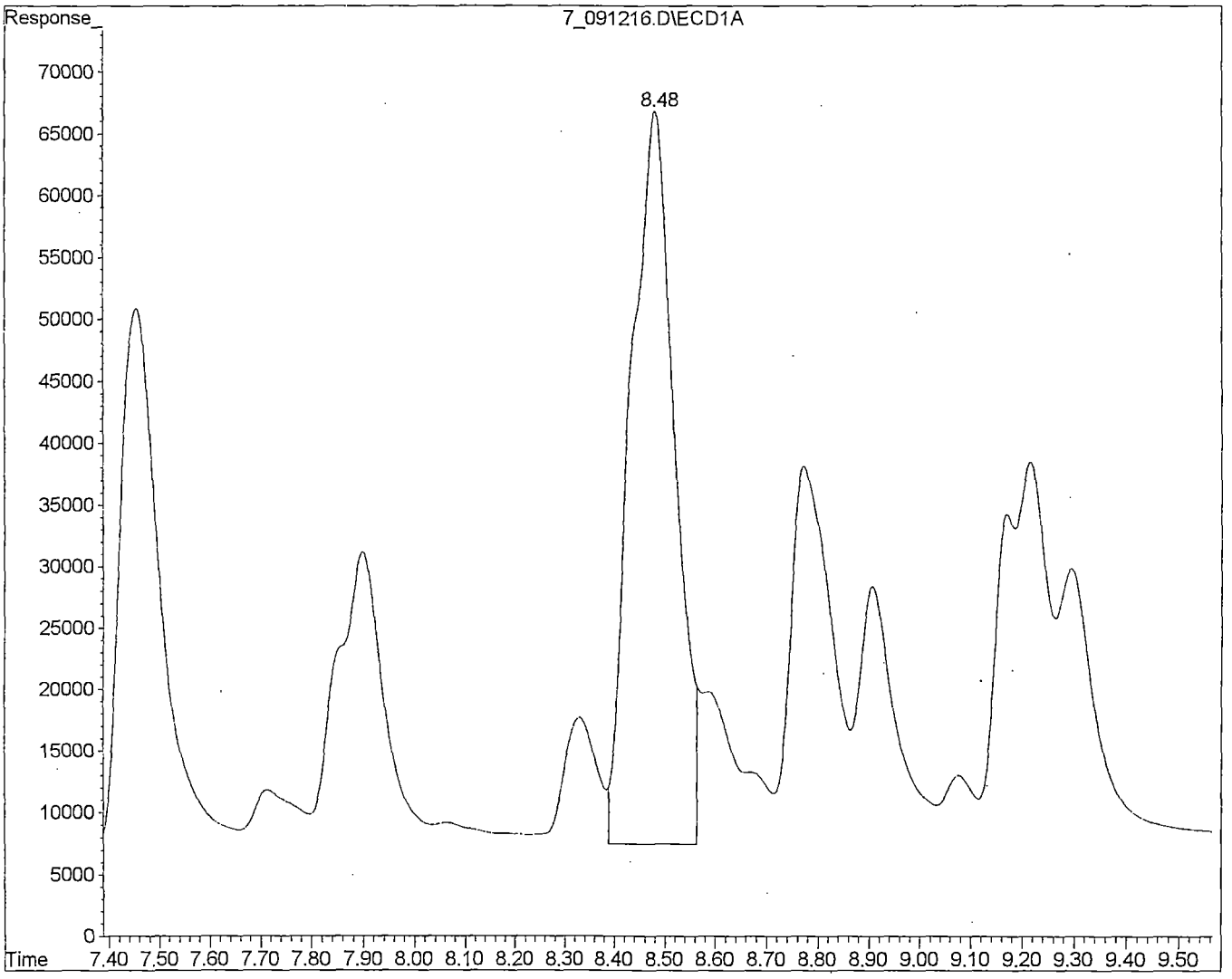
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.84f	5.73f	3487739	5381726	79.6 E	94.7 E
22)	S DCB	16.90f	17.42f	1690778	1886689	69.2 E	68.0
	Target Compounds:						
7)	L4 Aroclor-1242	7.46	7.72	2390511	3525504	1220.7	1344.7
8)	L4 Aroclor-1242 {2}	8.48	8.71f	3612460	4321996	1722.3m	2021.6
9)	L4 Aroclor-1242 {3}	8.77	9.00	1668032	2471781	1376.4	1267.7
10)	L4 Aroclor-1242 {4}	9.22	9.51	1222677	1622191	1320.9	1386.4
11)	L4 Aroclor-1242 {5}	9.65	9.99	1850776	1570768	1328.6	1526.9
	Sum Aroclor-1242			10744456	13512240	6968.9	7547.3
	Average Aroclor-1242					1393.772	1509.469

cs 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_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

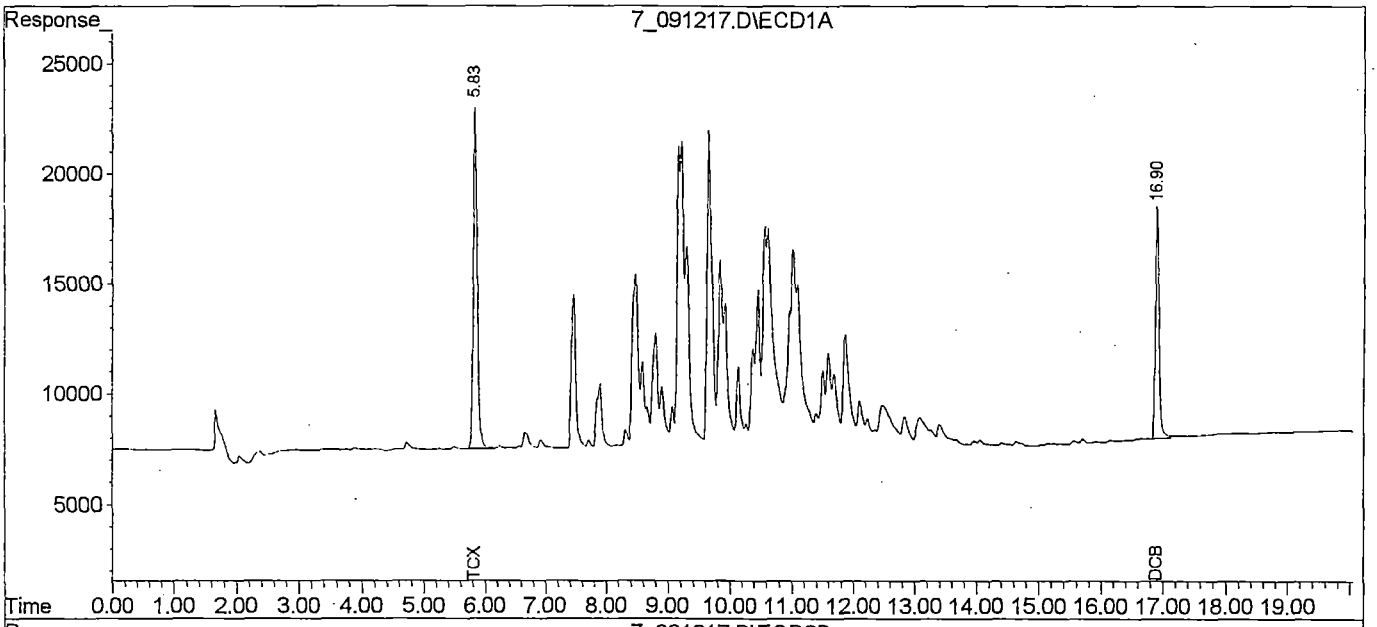
F:\HPCHEM\HP\7\DATA\09_12_01\7_091216.D
Report generated: Wed Sep 12 15:40:32 2001

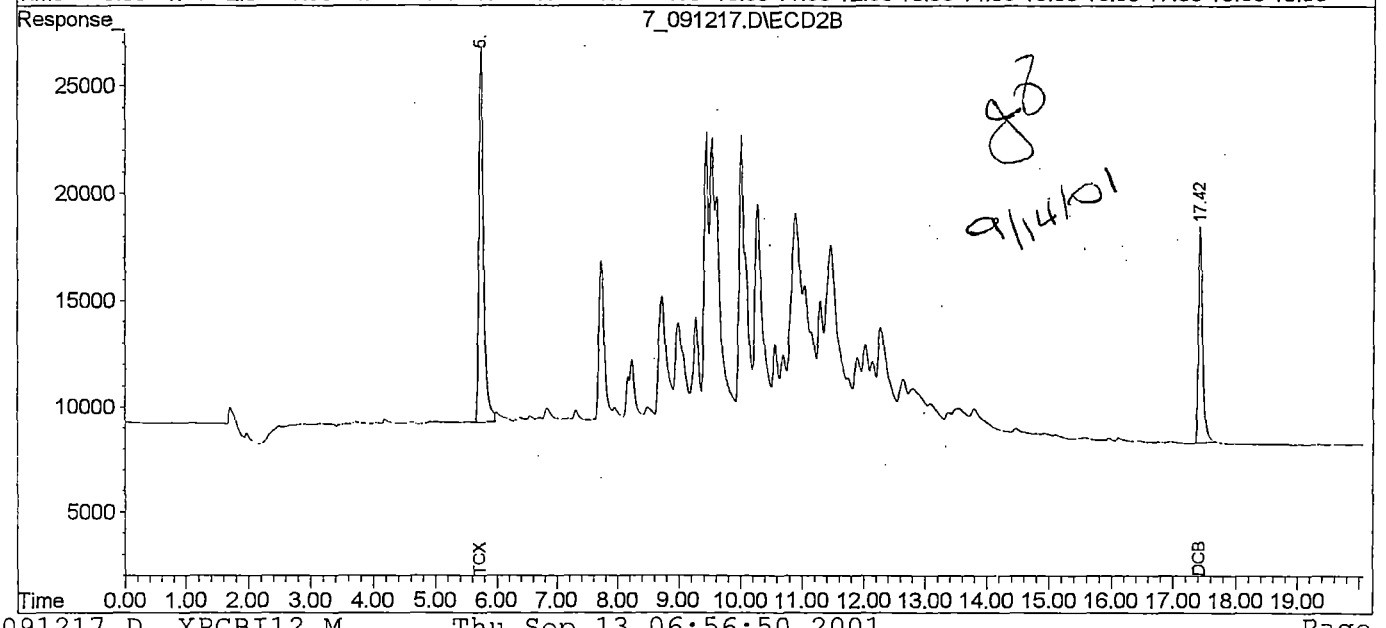
Chromatographic Report

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





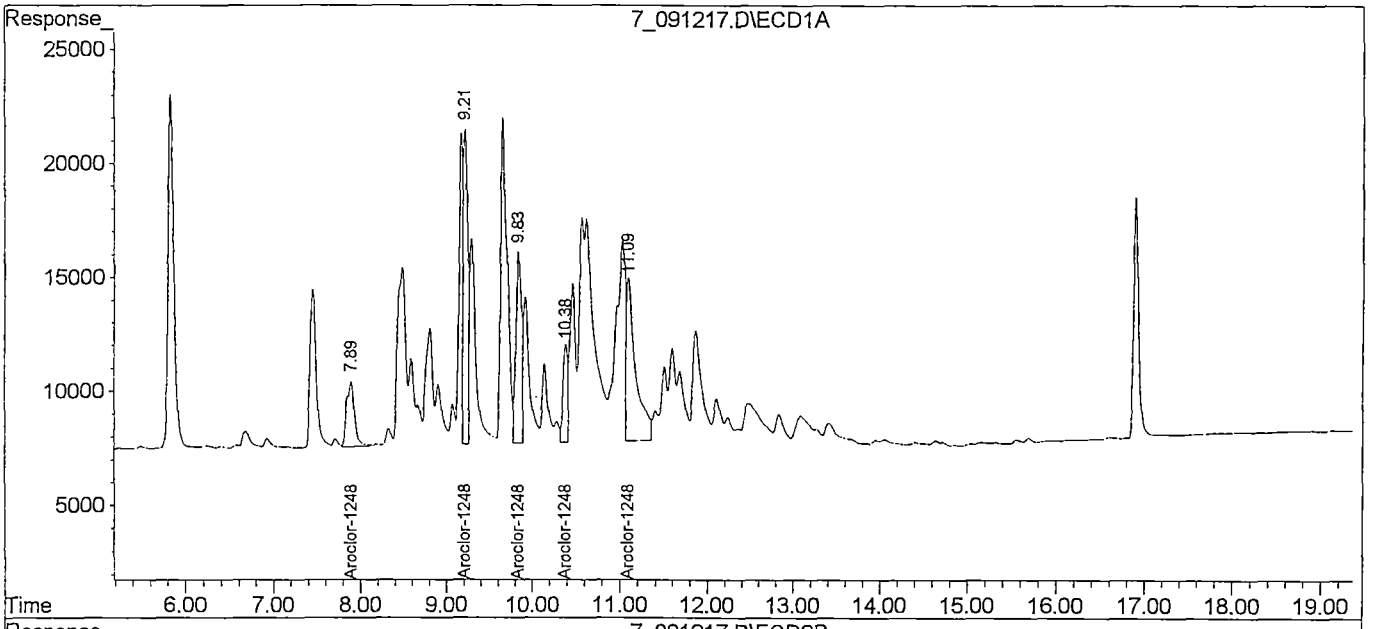
gb
9/14/01

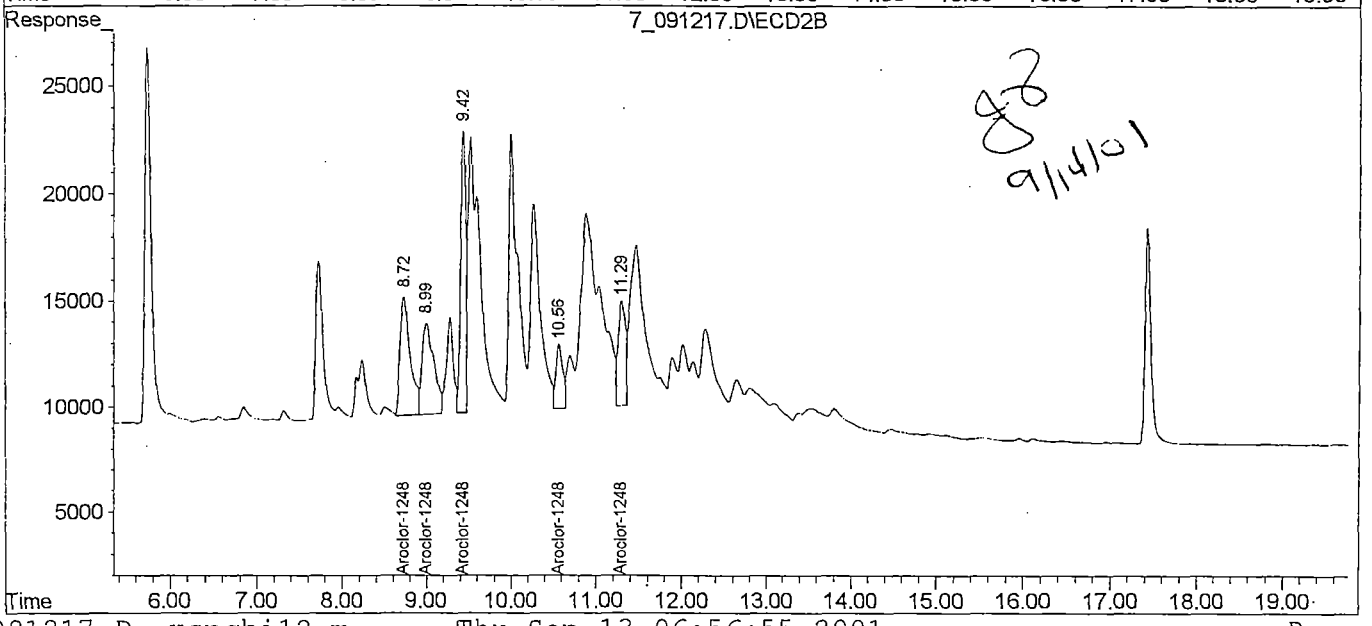
Chromatographic Report

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

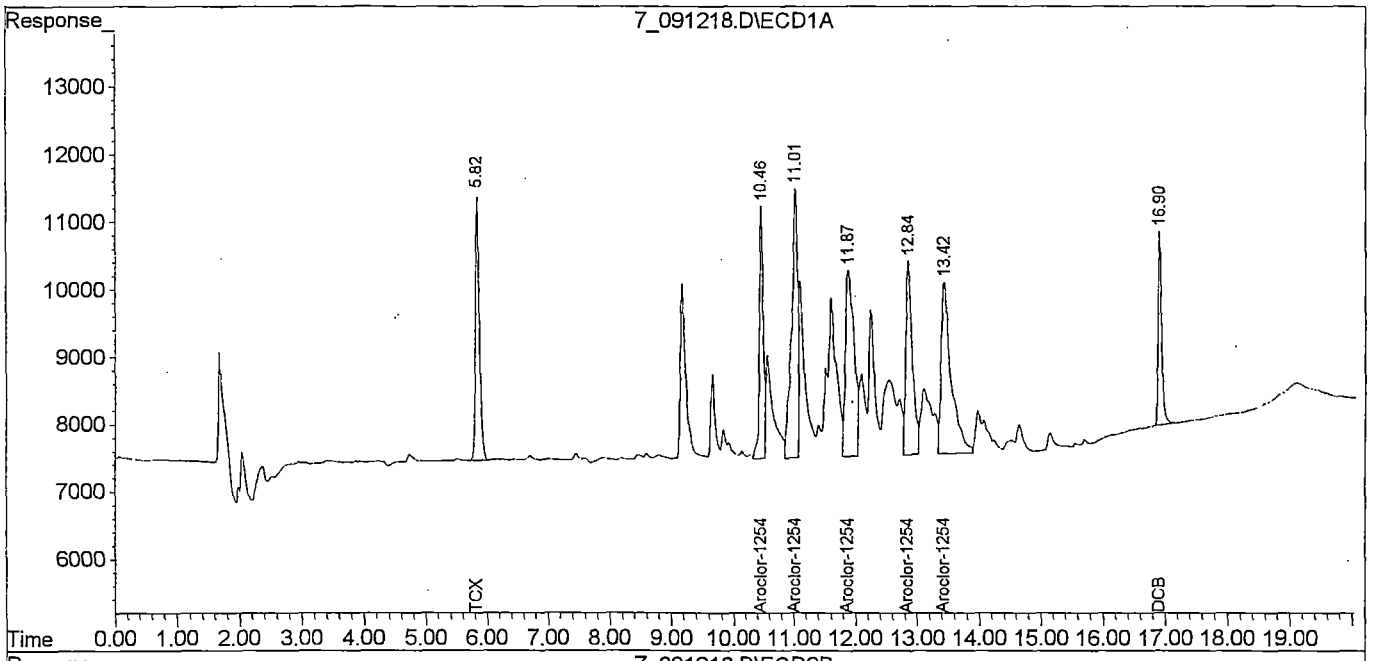
XPCBI12.M Thu Sep 13 07:26:26 2001

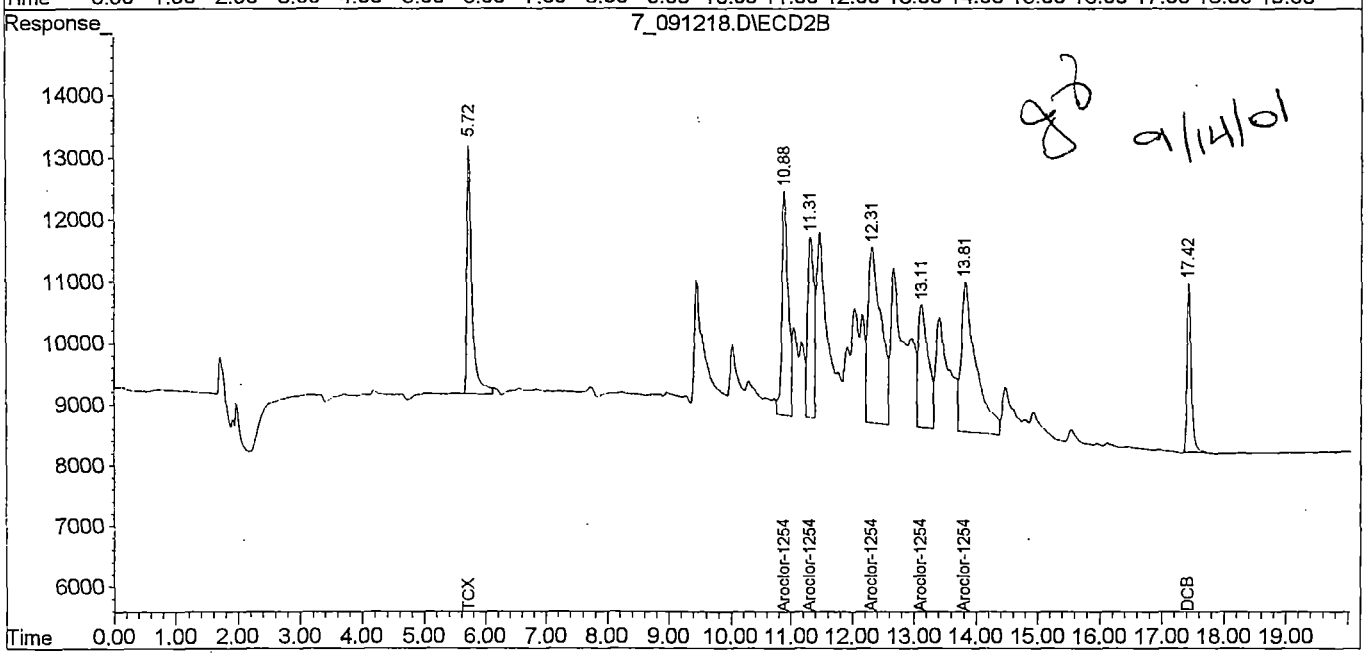
Chromatographic Report

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 : 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_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

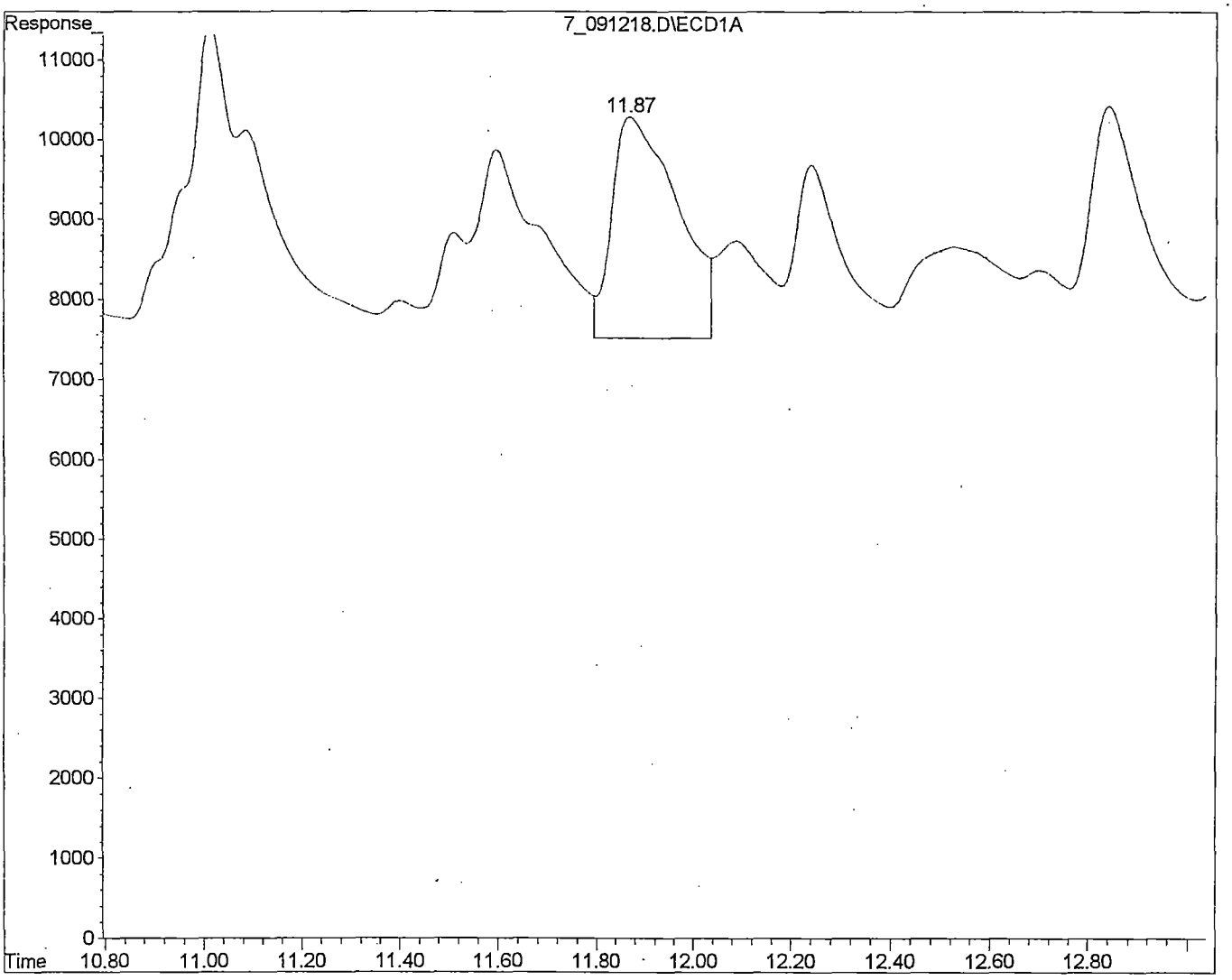
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.72	178163	237207	4.257	4.334	
22)	S DCB	16.90	17.42	112796	129942	5.106	5.393	
	Target Compounds:							
12)	L6 Aroclor-1254	10.46	10.88	167814	252782	92.2	84.6	
13)	L6 Aroclor-1254 {2}	11.01	11.31f	259685	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

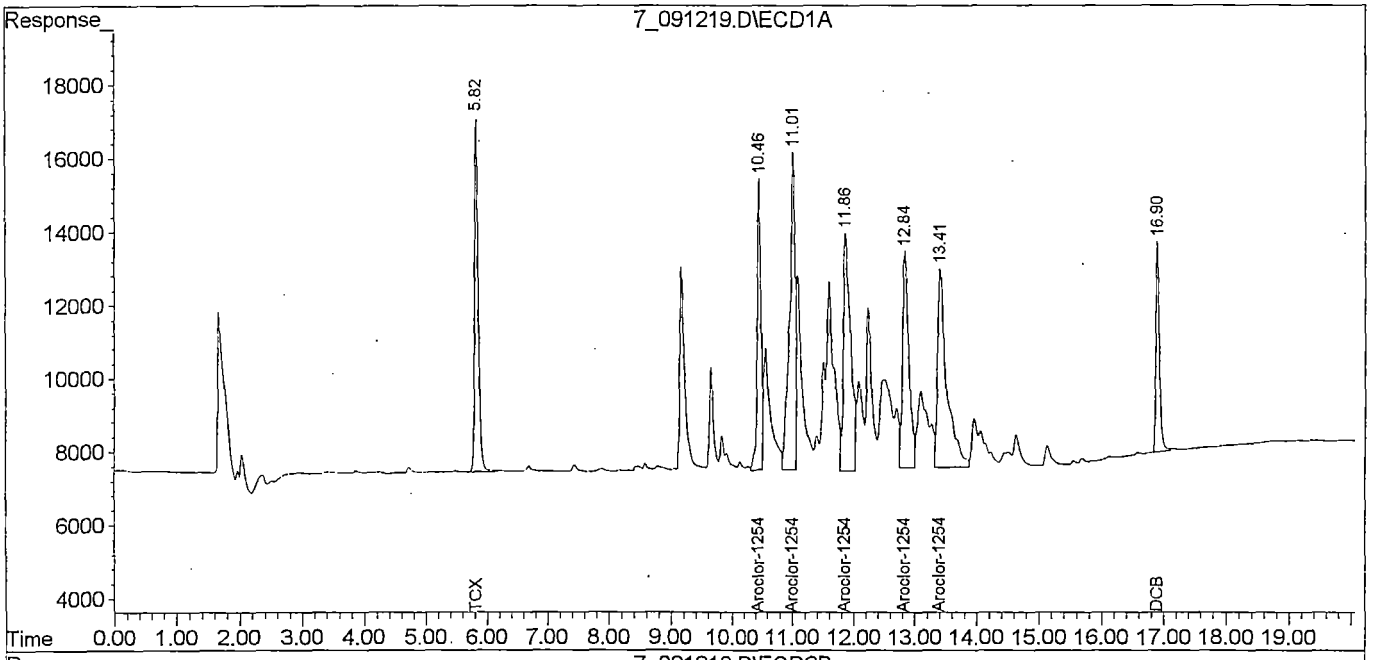
F:\HPCHEM\HP\7\DATA\09_12_01\7_091218.D
Report generated: Thu Sep 13 07:11:46 2001

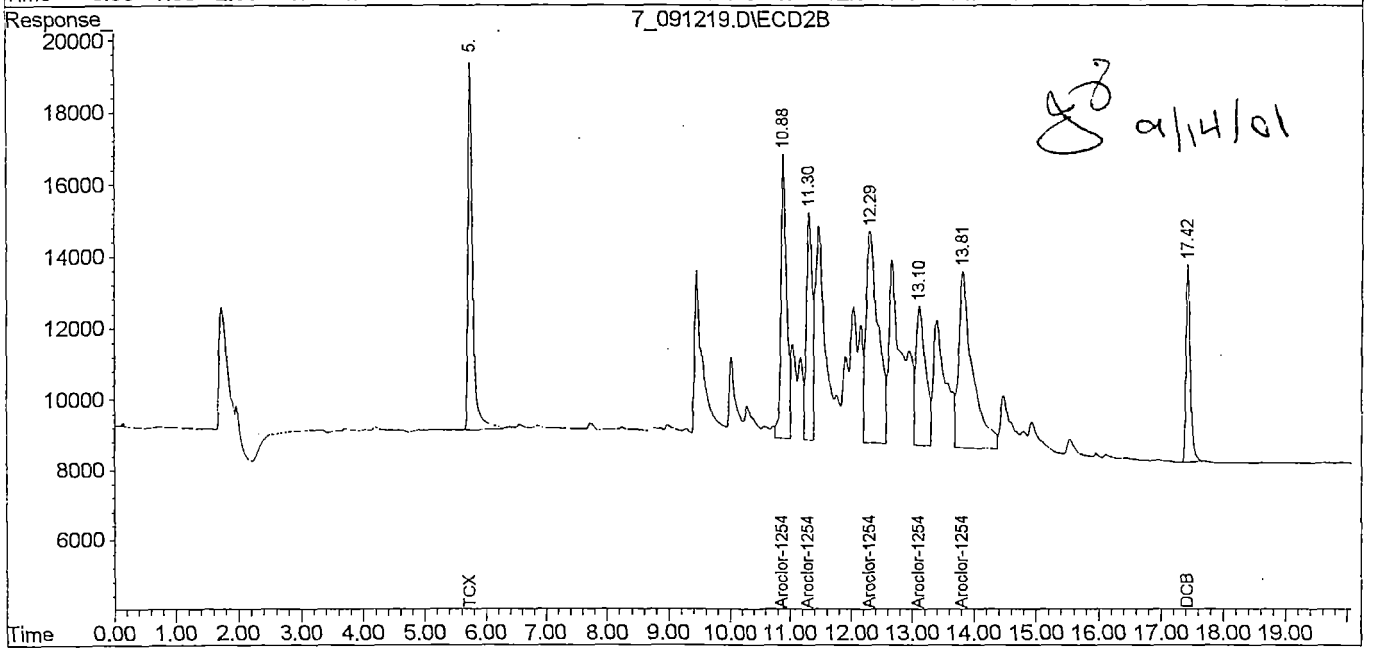
Chromatographic Report

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

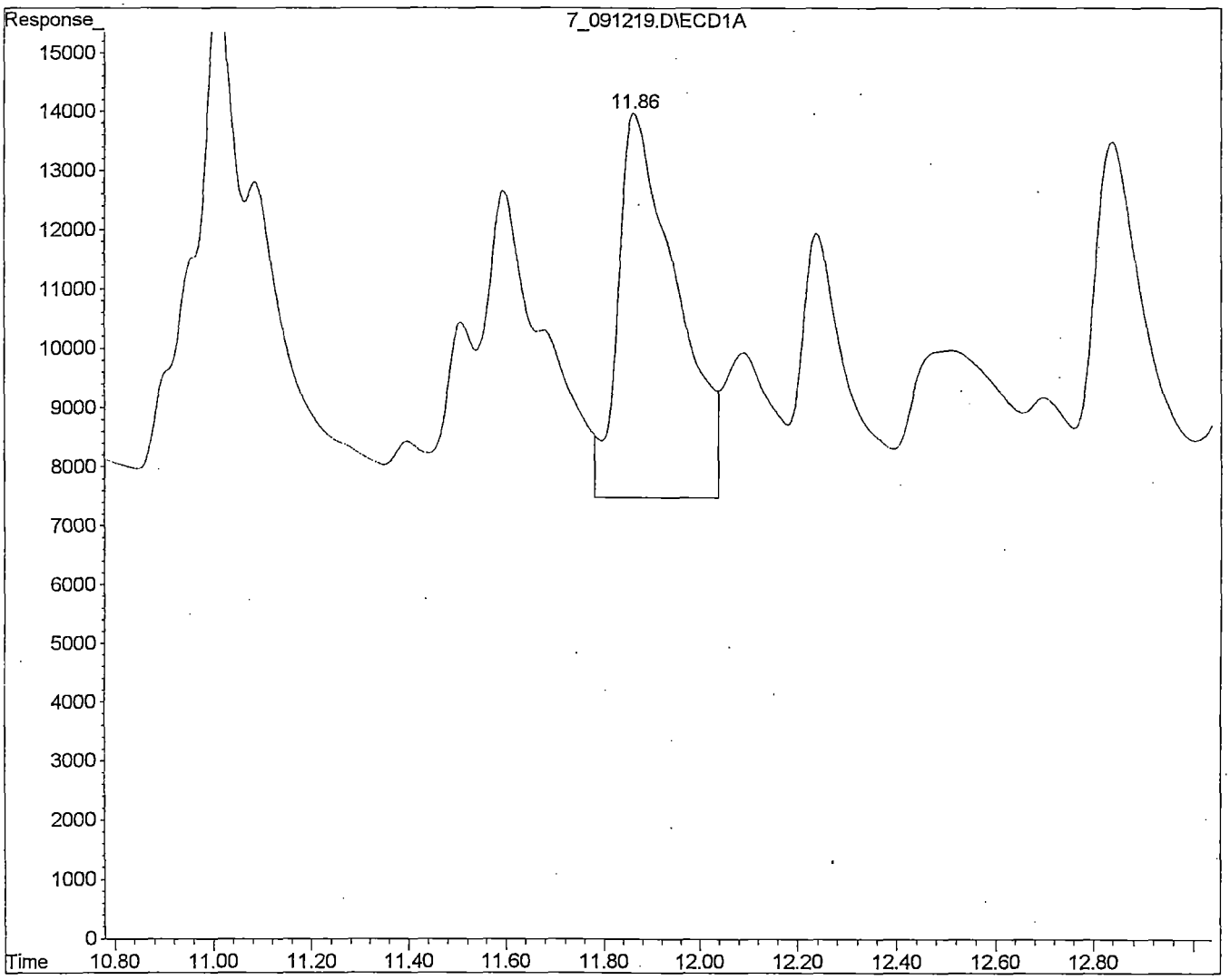
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.73	410686	549103	9.812	10.0	
22)	S DCB	16.90	17.42	228439	259972	10.3	10.8	
	Target Compounds:							
12)	L6 Aroclor-1254	10.46	10.88	341748	518051	187.9	173.5	
13)	L6 Aroclor-1254 {2}	11.01	11.30f	539450	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

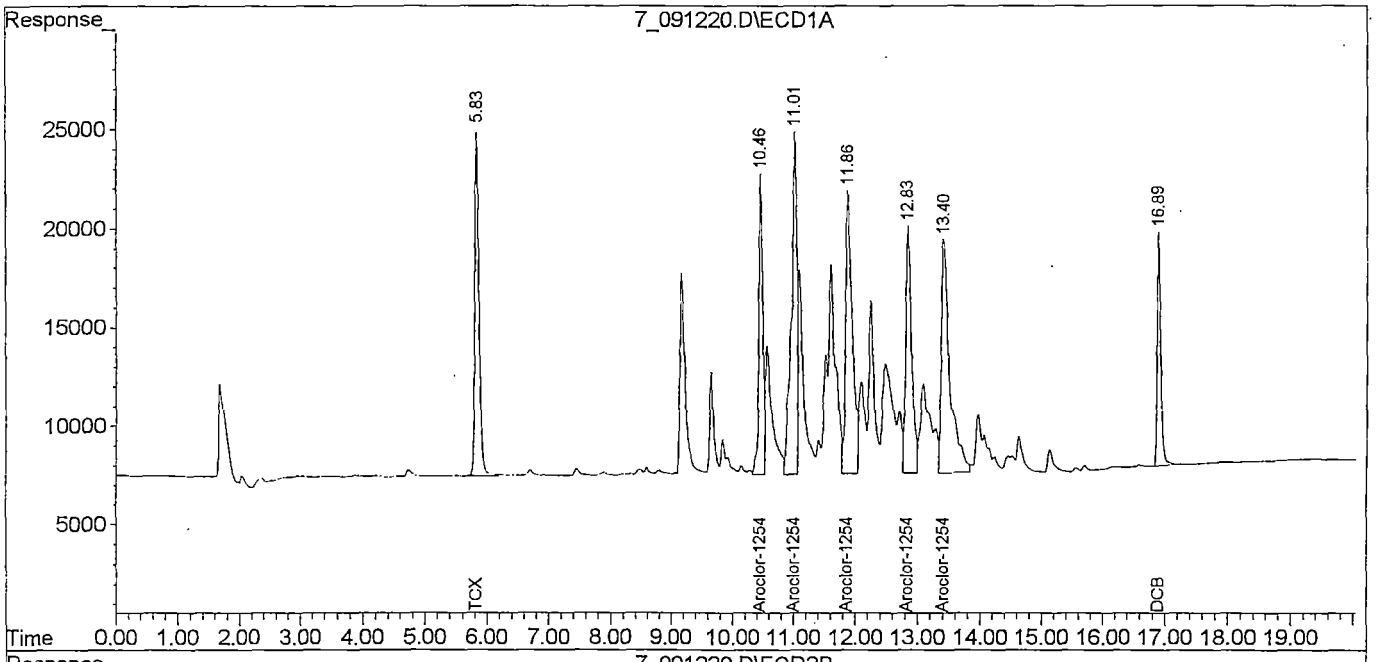
F:\HPCHEM\HP\7\DATA\09_12_01\7_091219.D
Report generated: Thu Sep 13 07:11:48 2001

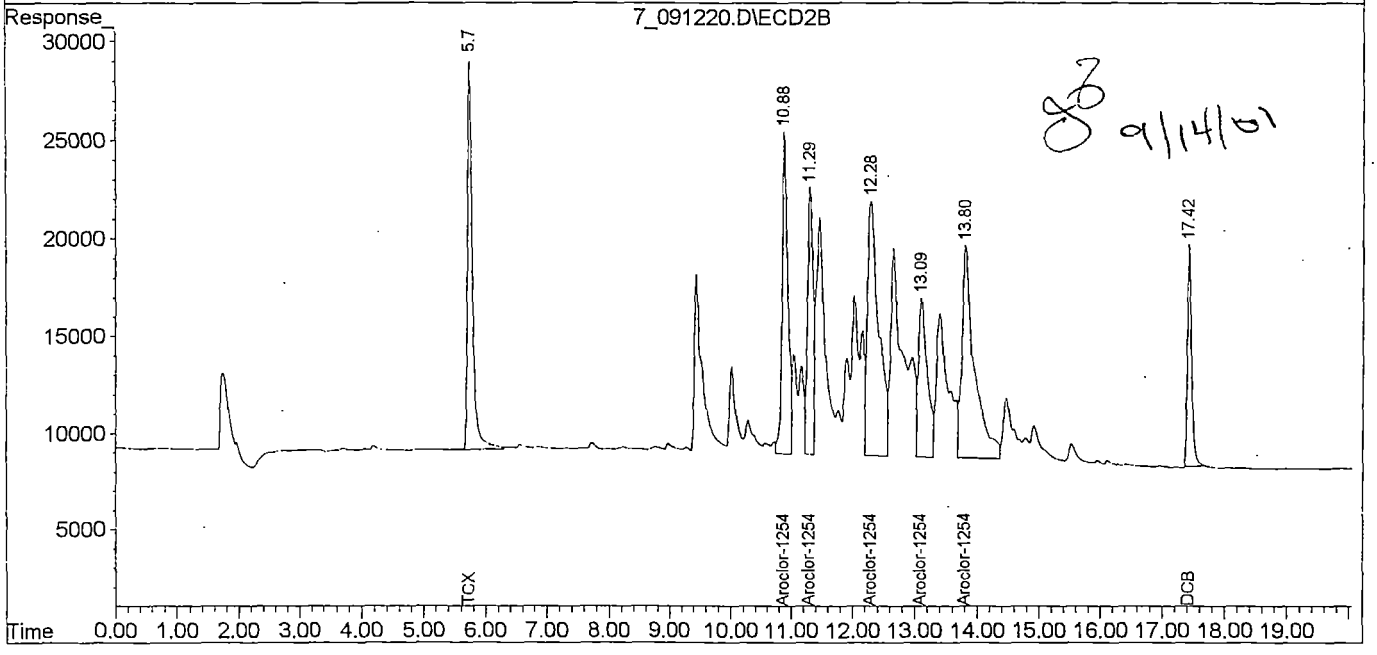
Chromatographic Report

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

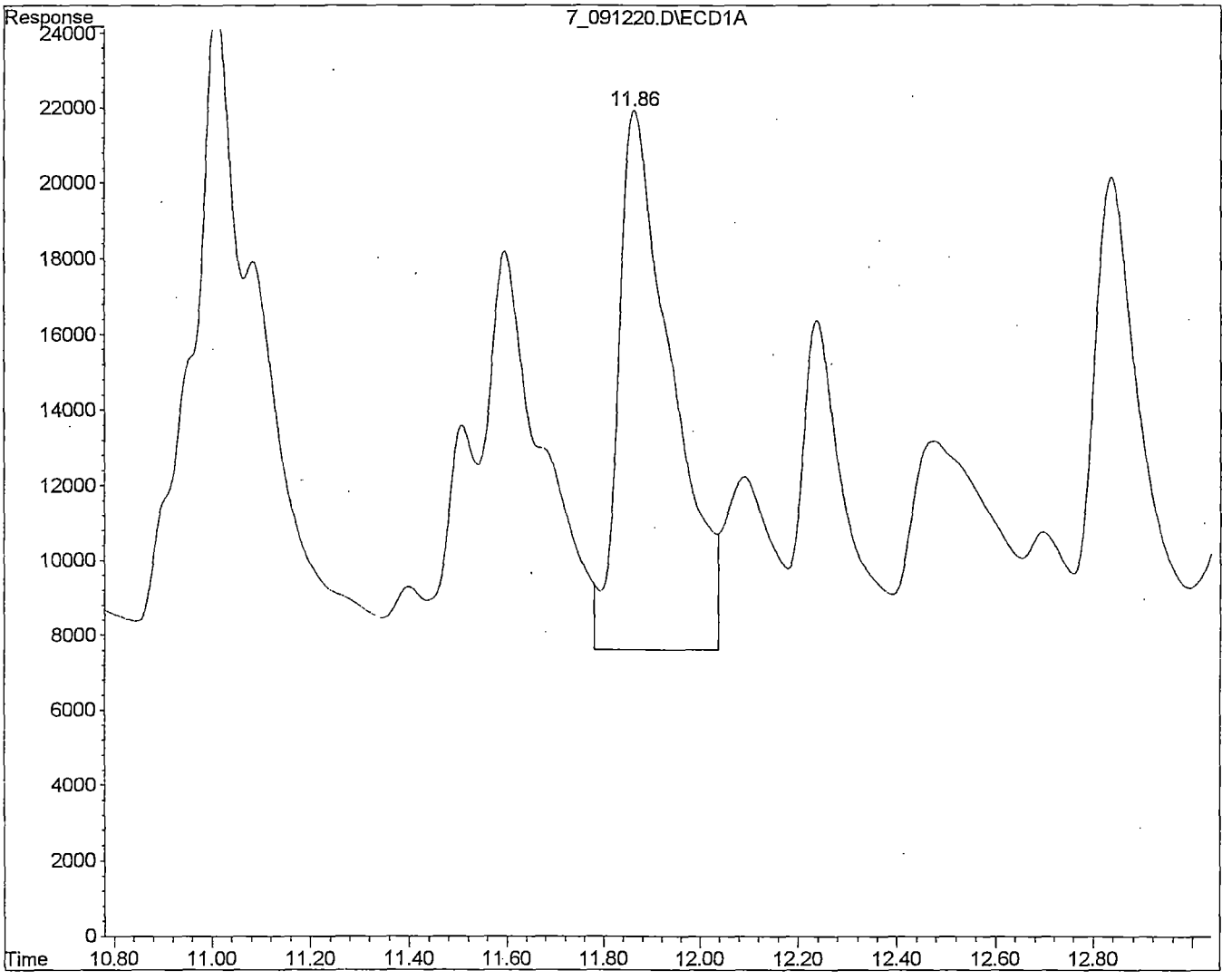
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.83	5.73	804903	1114415	19.2	20.4	
22)	S DCB	16.90	17.42	475250	532489	21.5	22.1	
	Target Compounds:							
12)	L6 Aroclor-1254	10.46	10.88f	664377	1064295	365.2	356.4	
13)	L6 Aroclor-1254 {2}	11.01	11.29f	1084403	854550	210.2	330.4	#
14)	L6 Aroclor-1254 {3}	11.86f	12.28f	1096887	1661700	350.7m	317.0	
)	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 9.13.51

(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

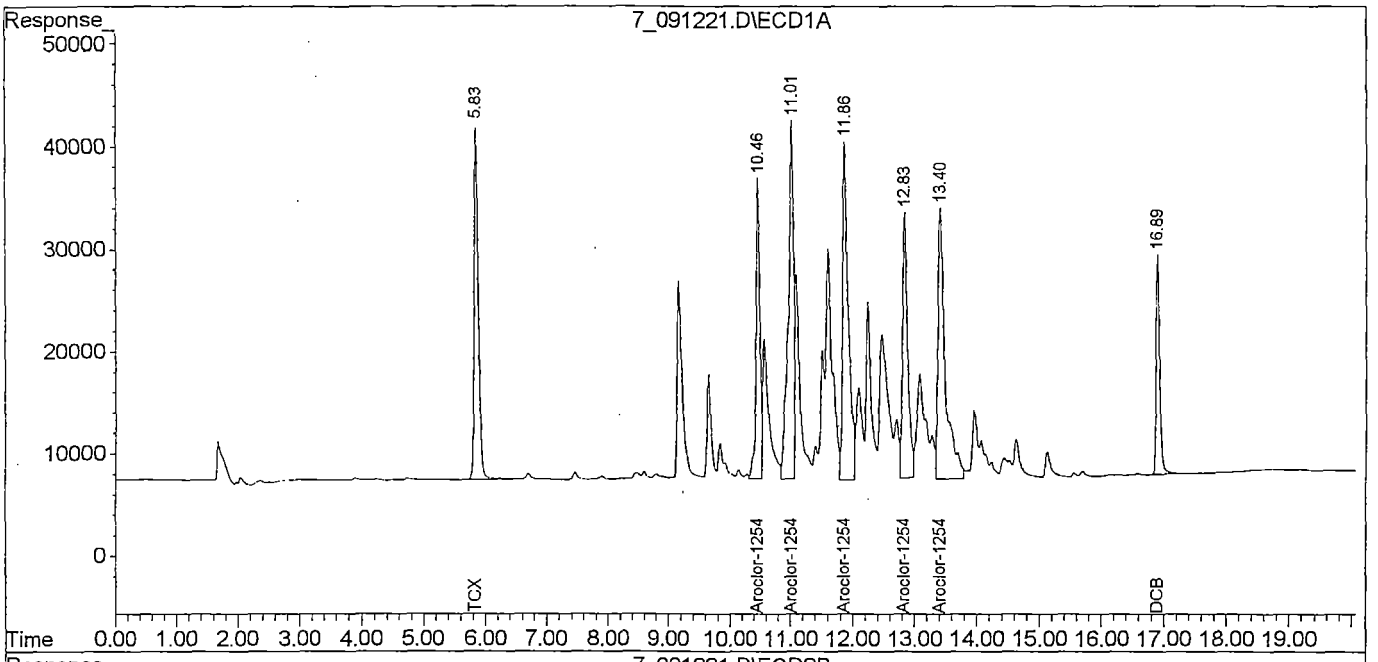
F:\HPCHEM\HP\7\DATA\09_12_01\7_091220.D
Report generated: Thu Sep 13 07:11:49 2001

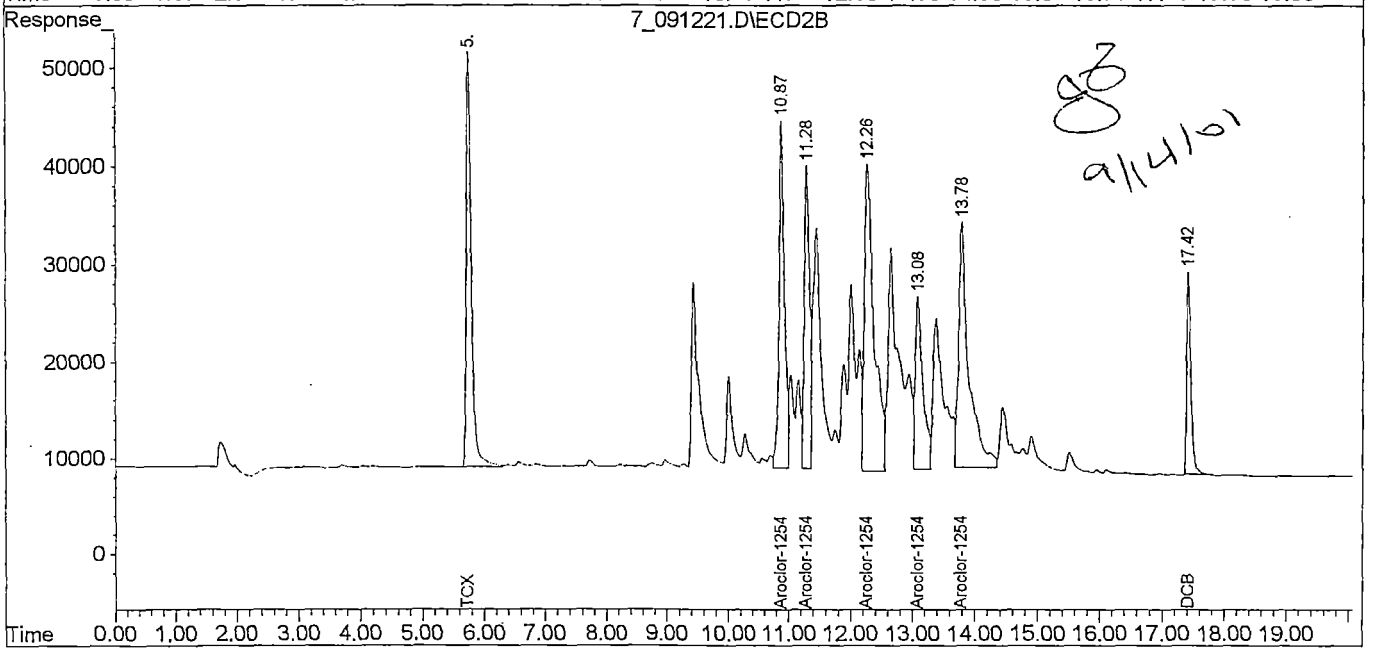
Chromatographic Report

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

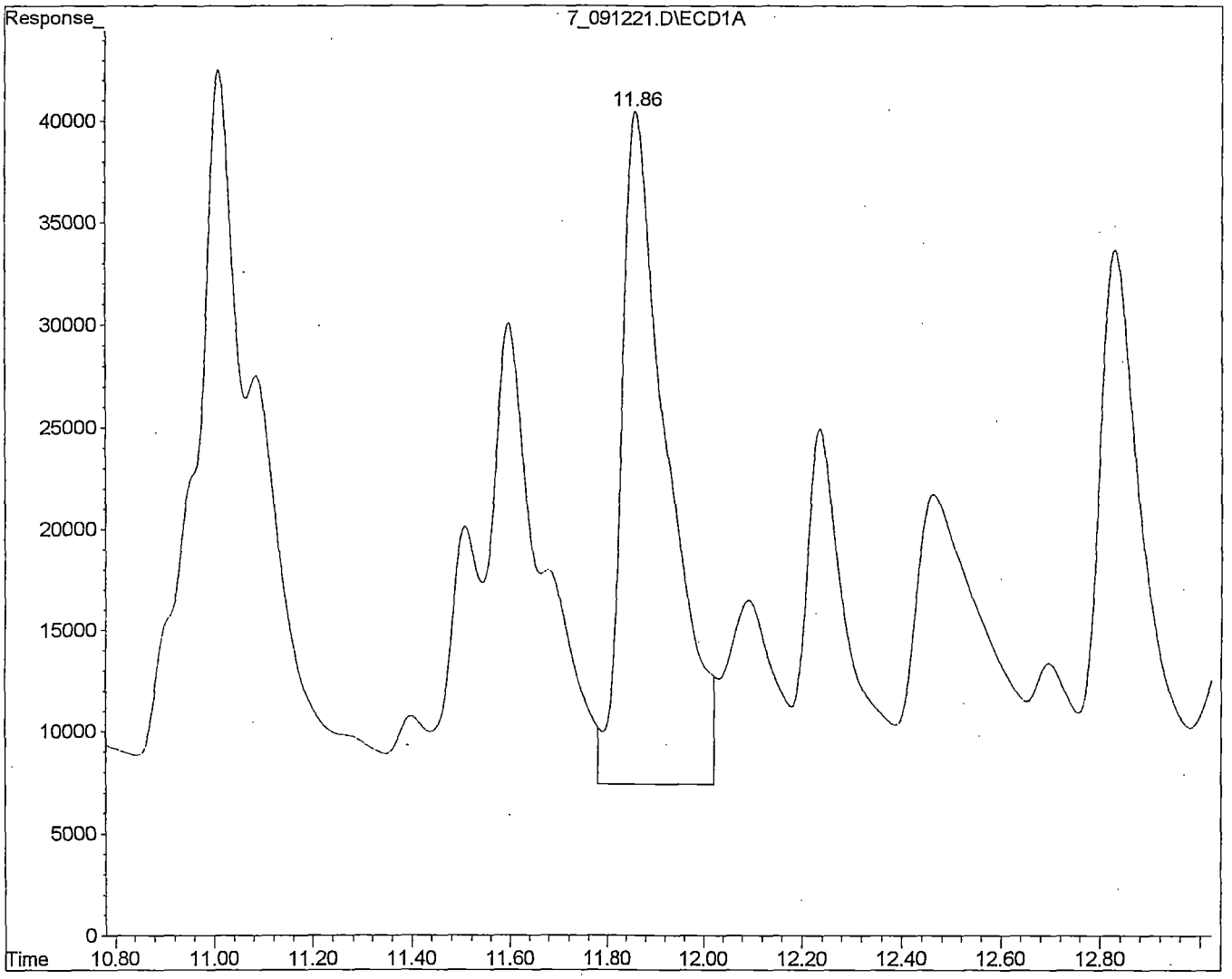
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.83	5.73	1667387	2458172	39.8	44.9	
22)	S DCB	16.90	17.42	852413	954532	38.6	39.6	
	Target Compounds:							
12)	L6 Aroclor-1254	10.46	10.87f	1273503	2220609	700.1	743.5	
13)	L6 Aroclor-1254 {2}	11.01	11.28f	2102631	1799212	407.5	695.6	#
14)	L6 Aroclor-1254 {3}	11.86f	12.26f	2166467	3455618	692.6m	659.3m	
)	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	

A9-13-9

(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



AJ 9-13-01

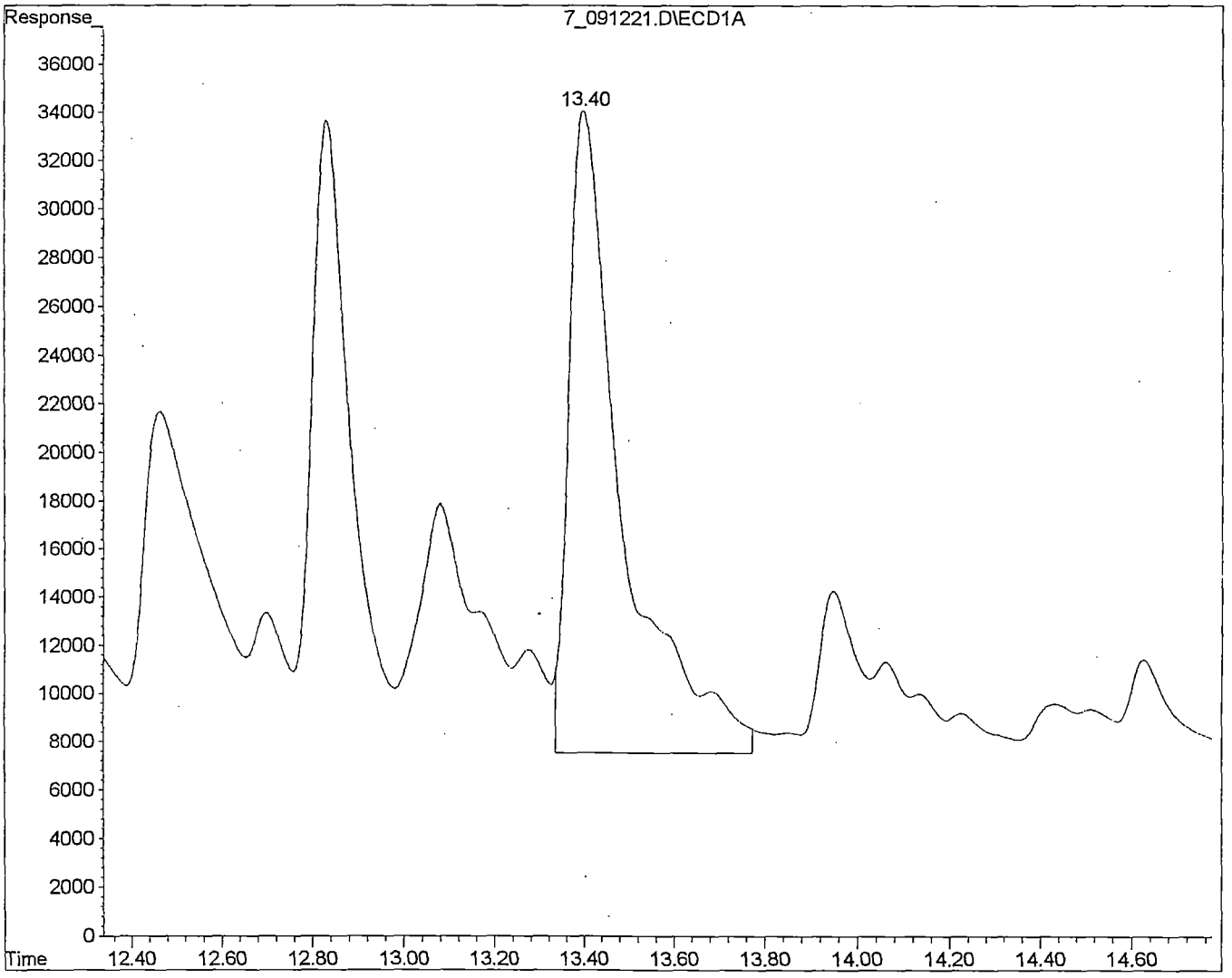
Aroclor-1254 {3} 11.86min area: 2166467 m

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



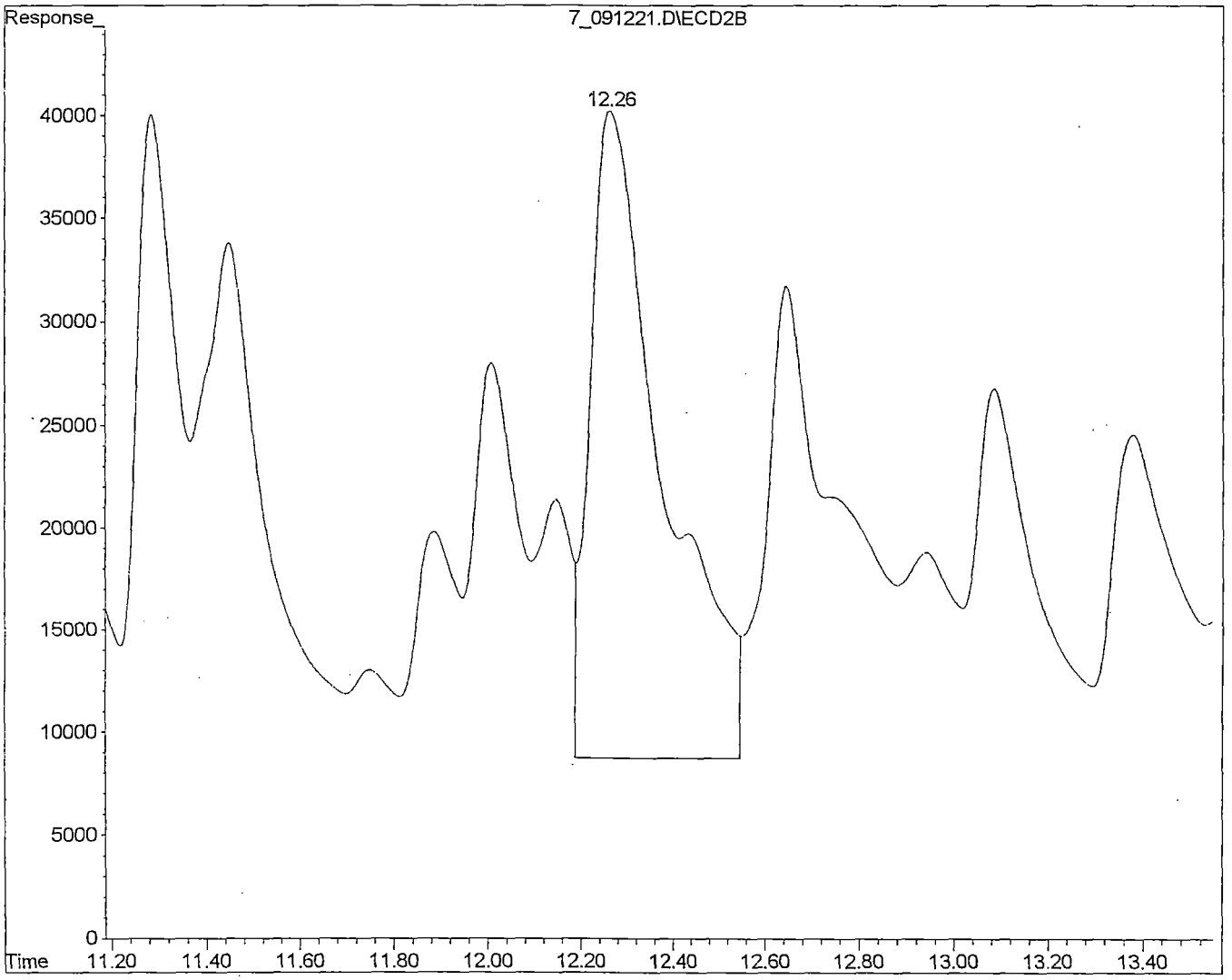
Aroclor-1254 {5} 13.40min area: 2188295 m

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



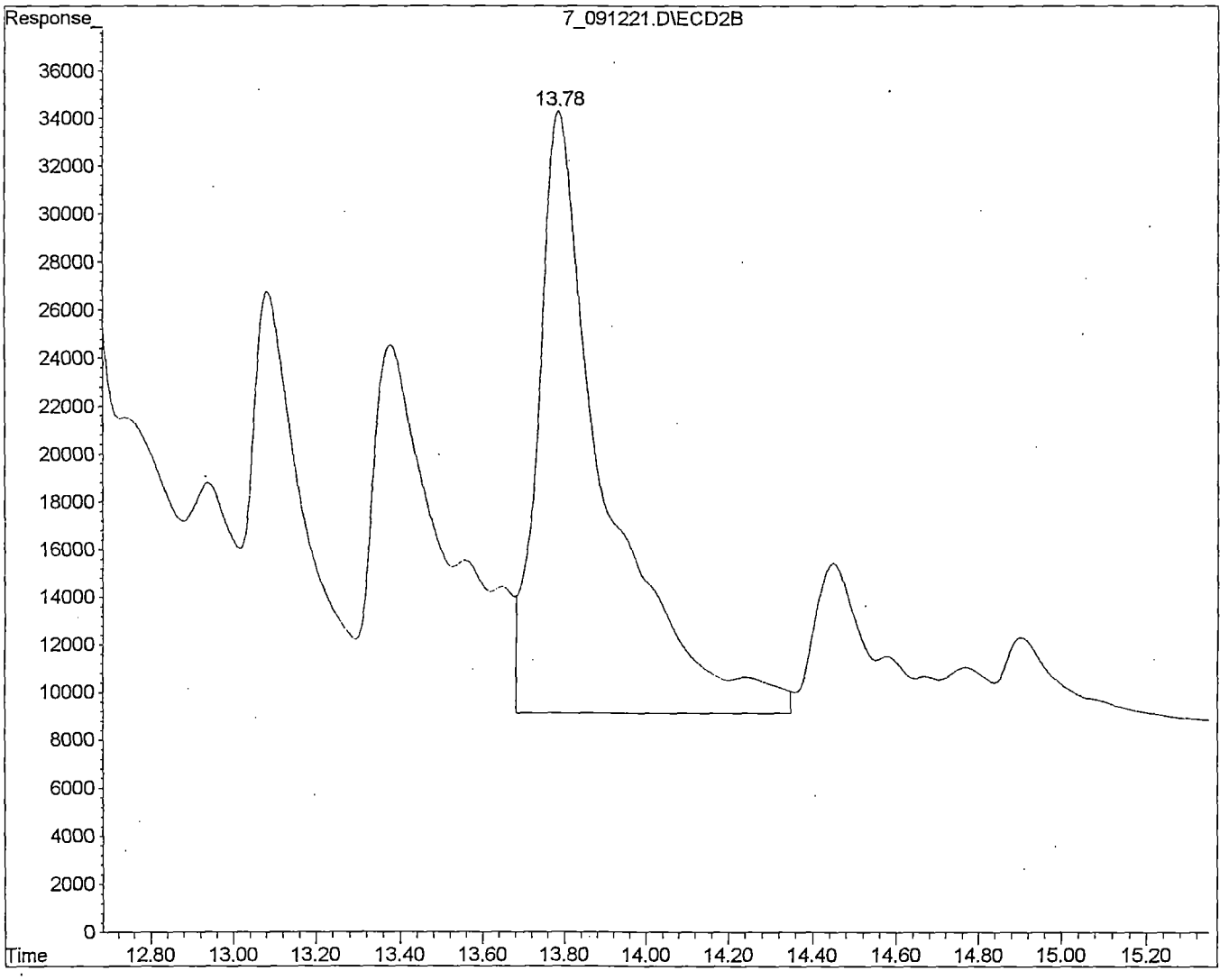
Aroclor-1254 {3} #2 12.26min area: 3455618 m

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

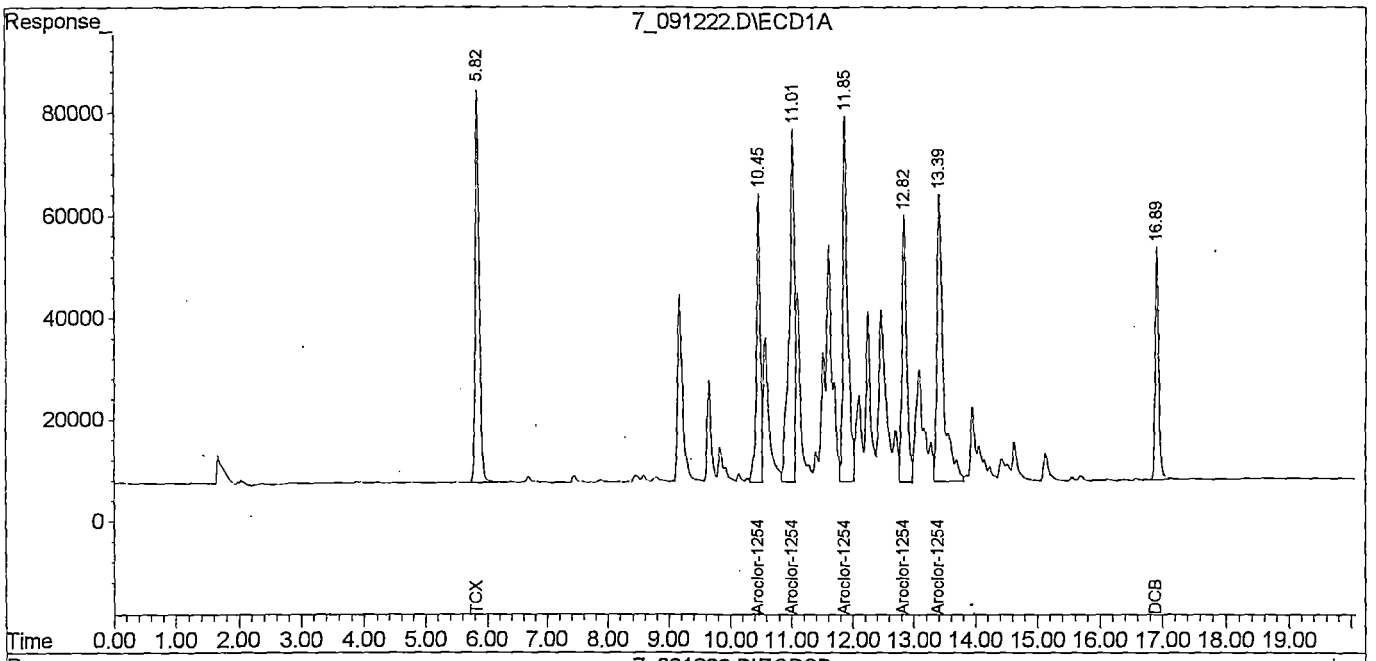
F:\HPCHEM\HP\7\DATA\09_12_01\7_091221.D
Report generated: Thu Sep 13 07:25:12 2001

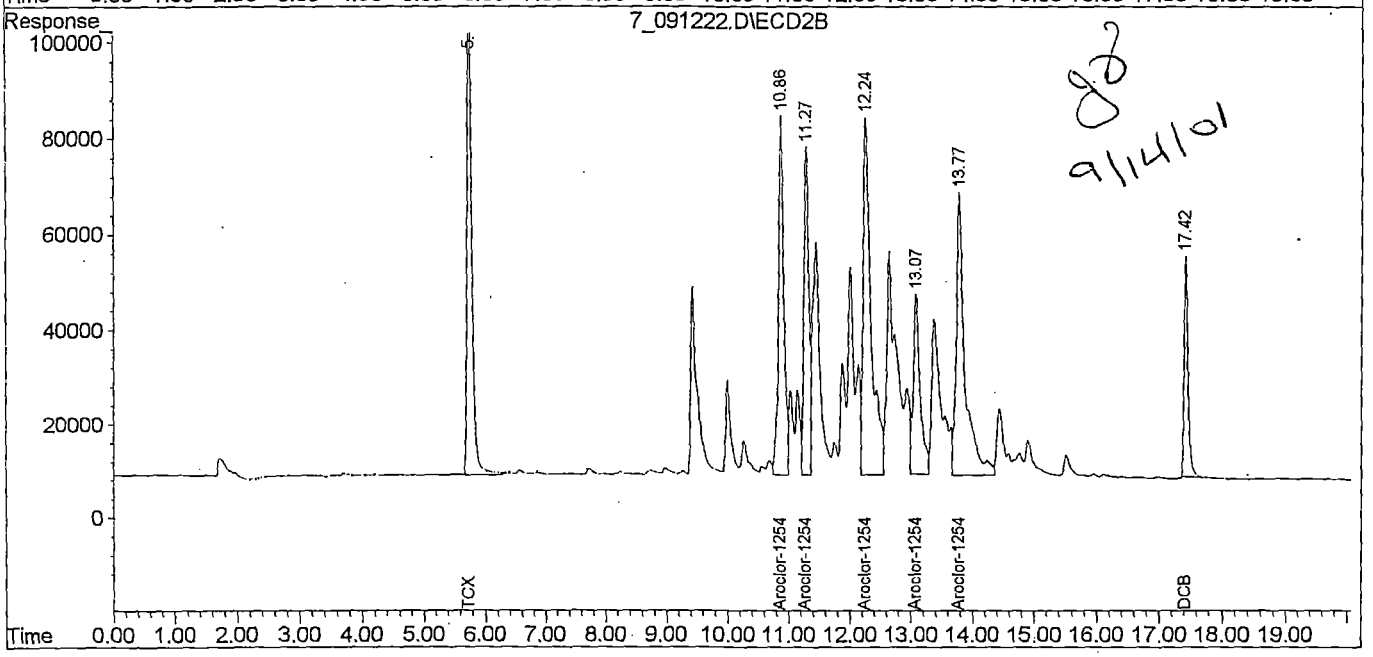
Chromatographic Report

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





gd
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

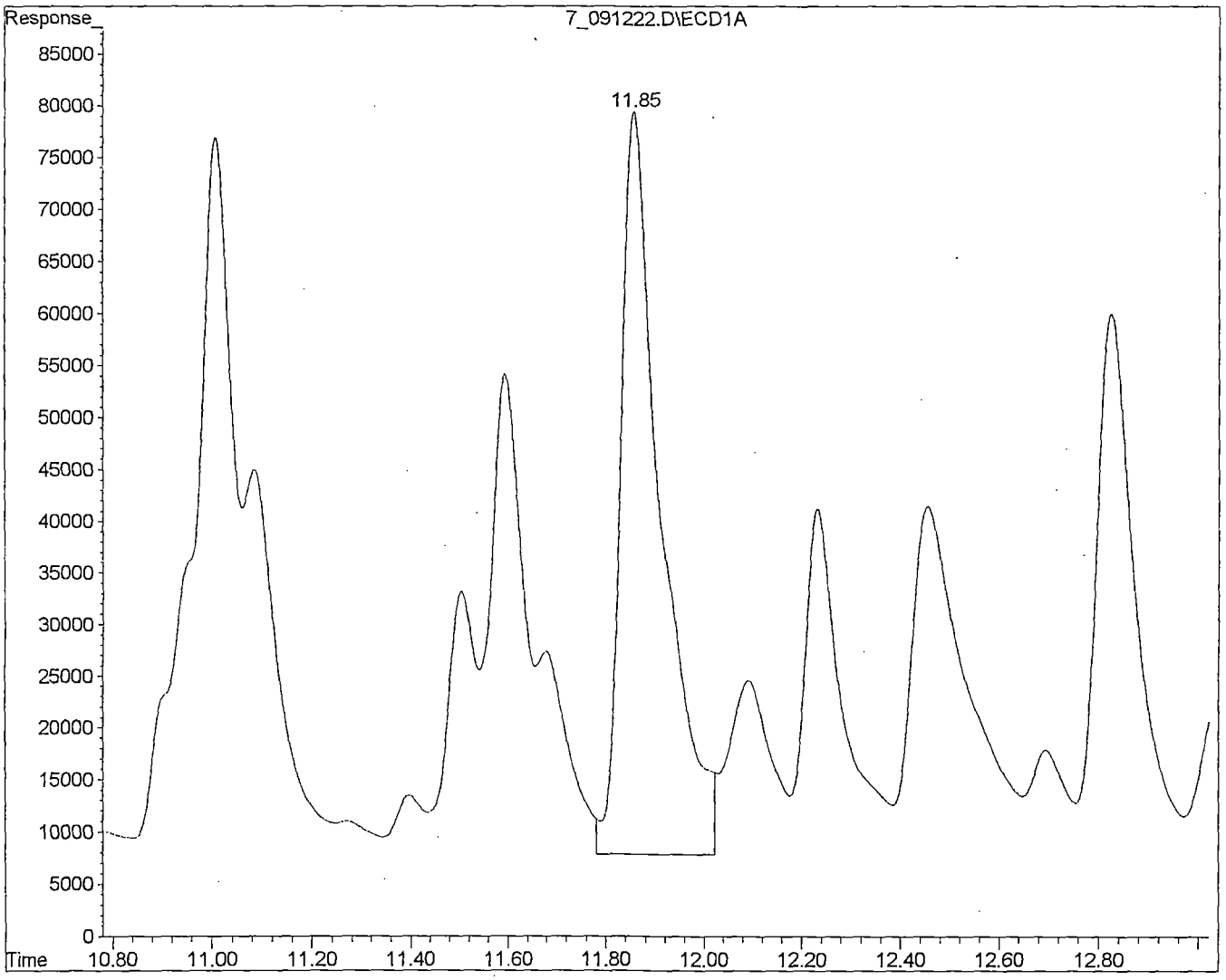
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	3424469	5505480	81.8	100.6 E
22)	S DCB	16.89	17.42	1779147	2002291	80.5	83.1 E
	Target Compounds:						
12)	L6 Aroclor-1254	10.45	10.86f	2360827	4539969	1297.8	1520.1
13)	L6 Aroclor-1254 {2}	11.01f	11.27f	3978884	3662801	771.2 E	1416.2 E#
14)	L6 Aroclor-1254 {3}	11.85f	12.24f	4067597	6834797	1300.5m	1304.0m
)	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



AG.12.9

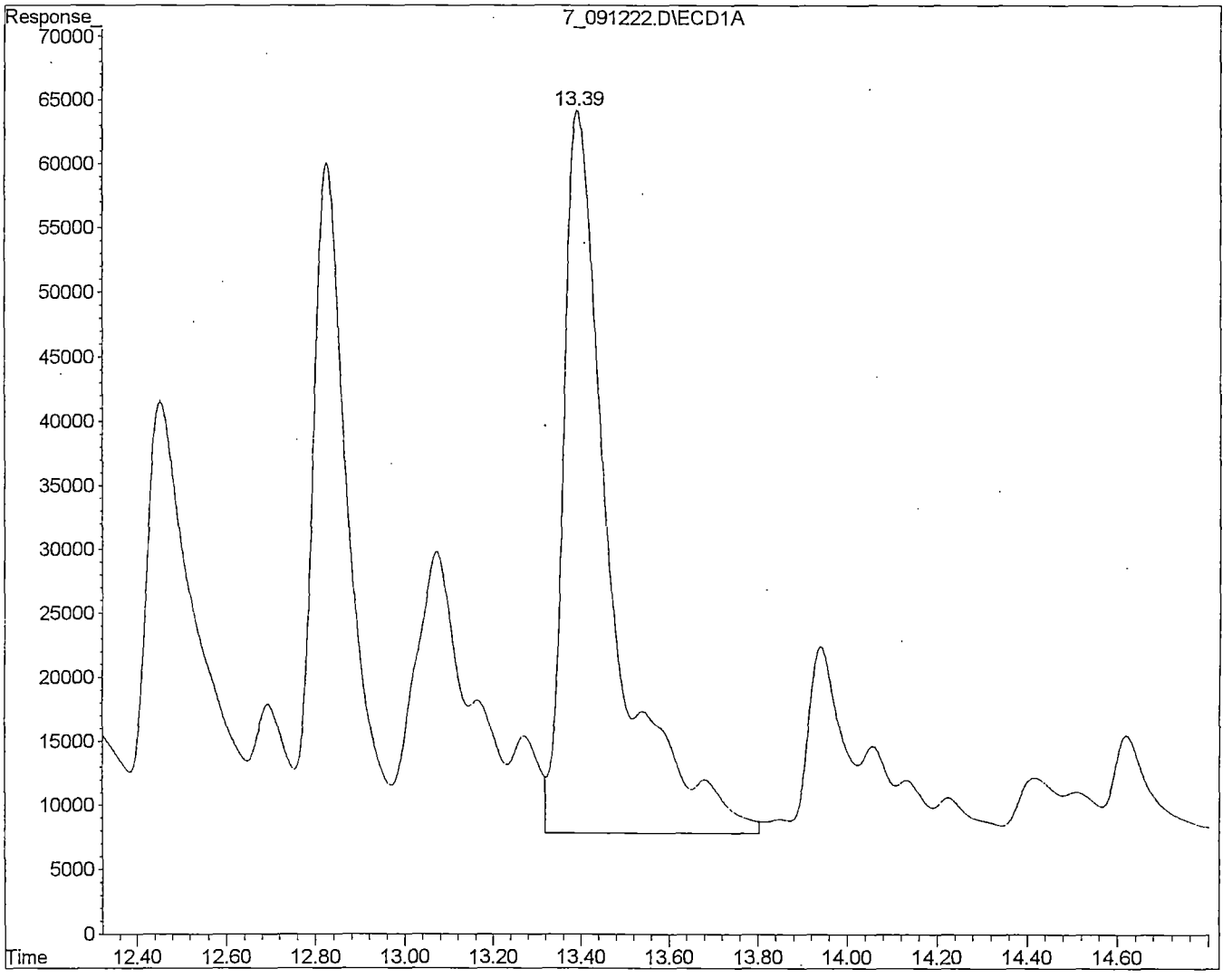
Aroclor-1254 {3} 11.85min area: 4067597 m

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



09.13.9

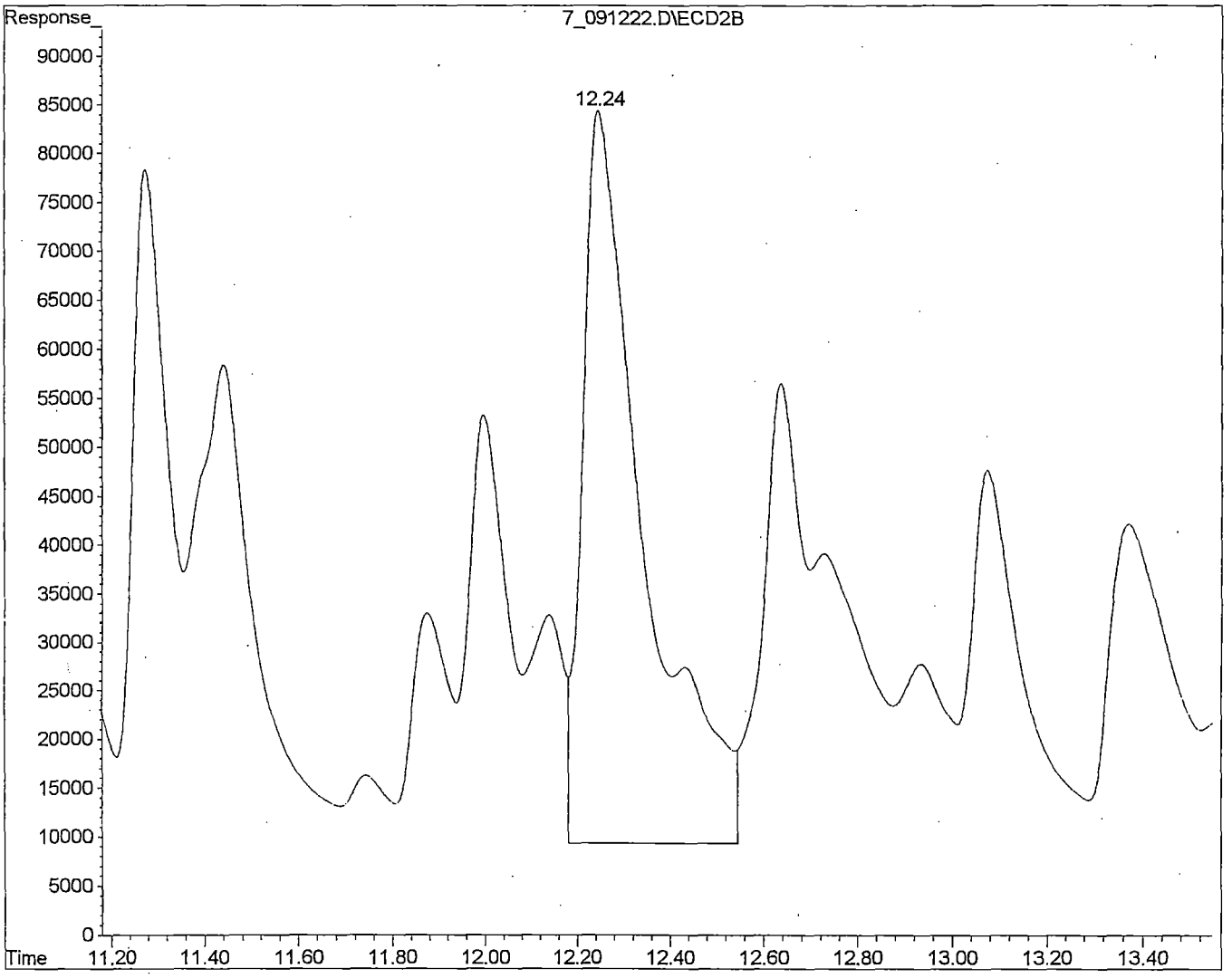
Aroclor-1254 {5} 13.39min area: 4163536 m

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



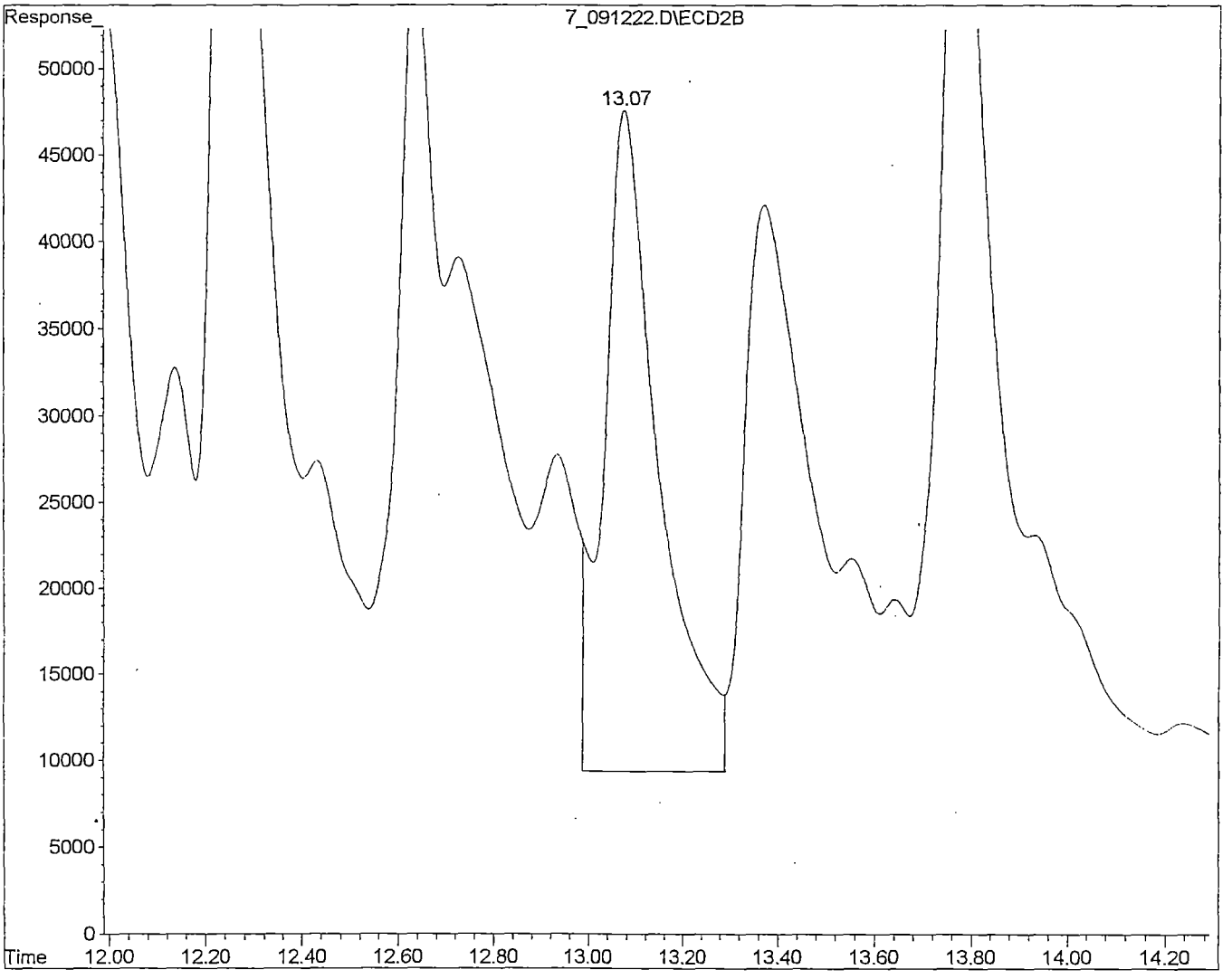
Aroclor-1254 {3} #2 12.24min area: 6834797 m

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



cd 9-13-01

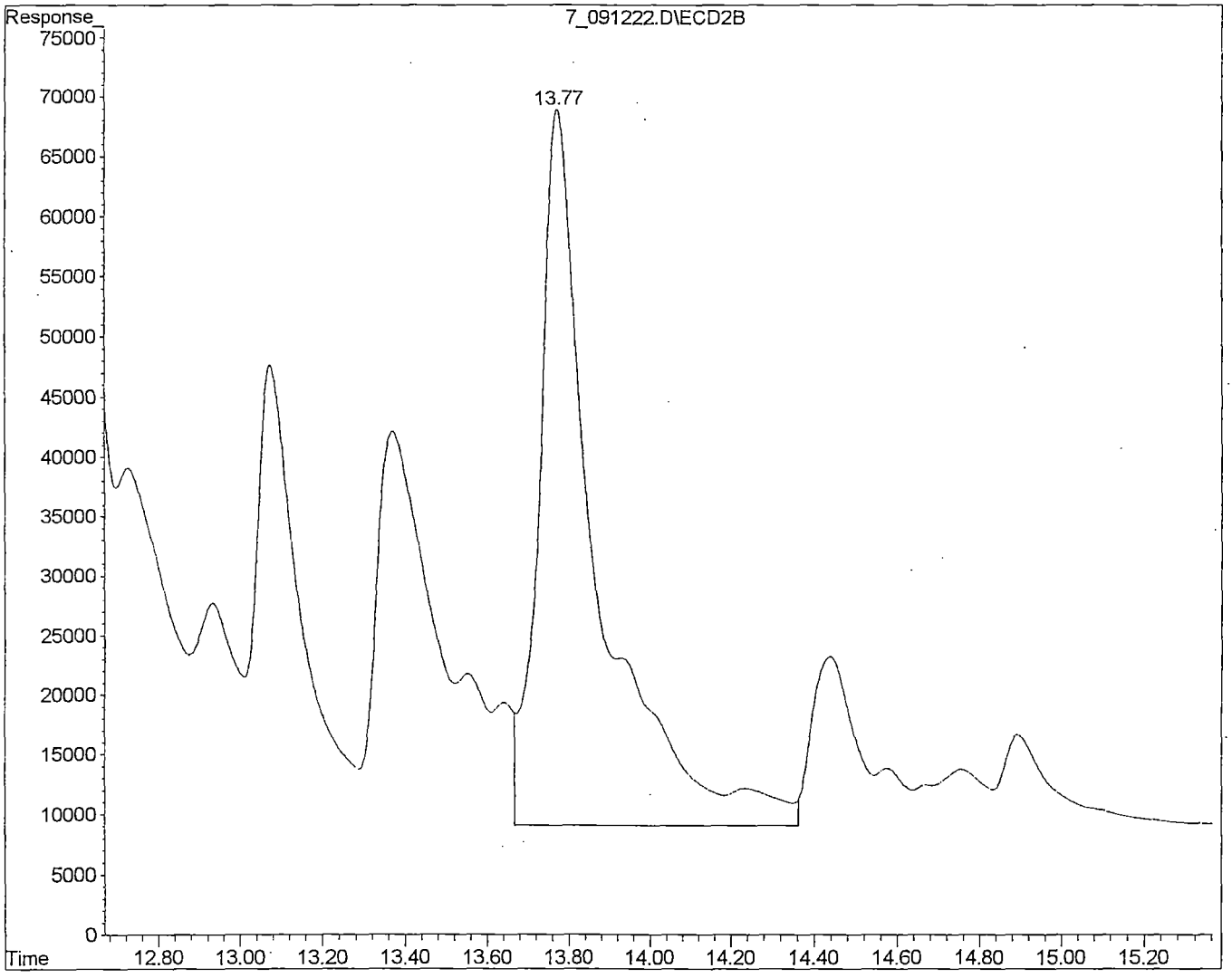
Aroclor-1254 {4} #2 13.07min area: 3081898 m

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

F:\HPCHEM\HP\7\DATA\09_12_01\7_091222.D
Report generated: Thu Sep 13 07:25:16 2001

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

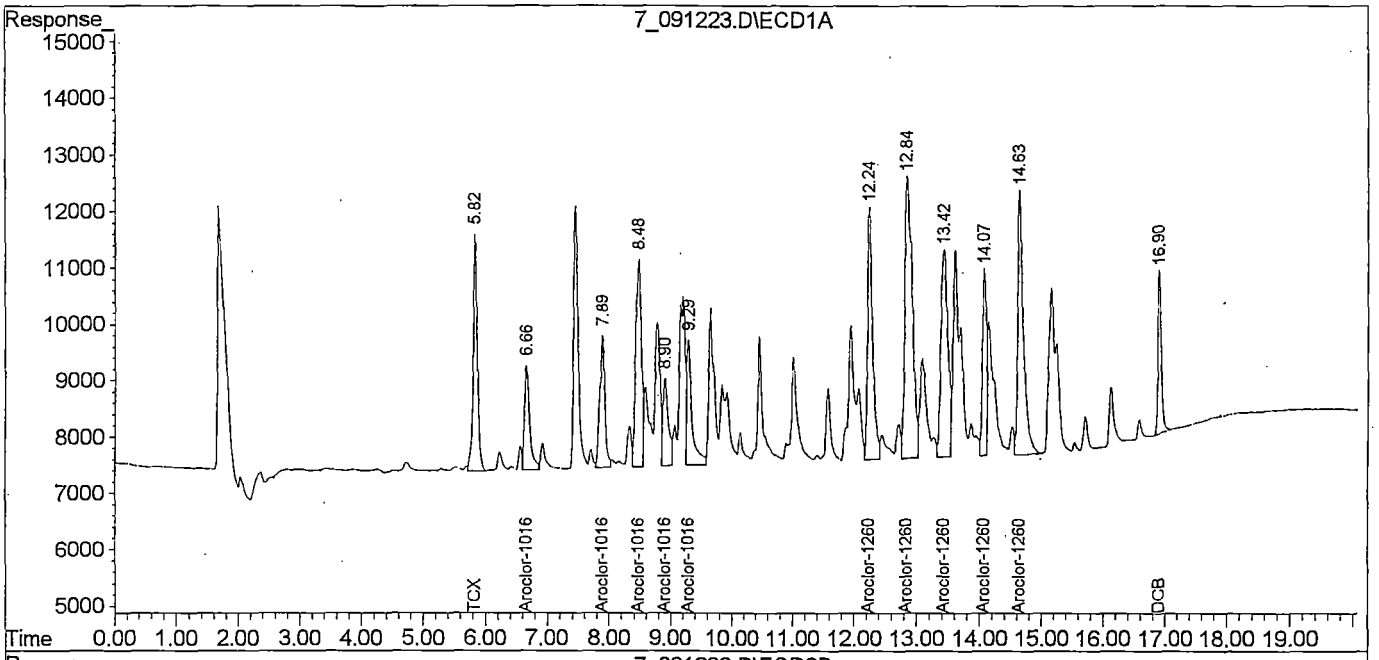
XPCBI12.M Thu Sep 13 07:42:54 2001

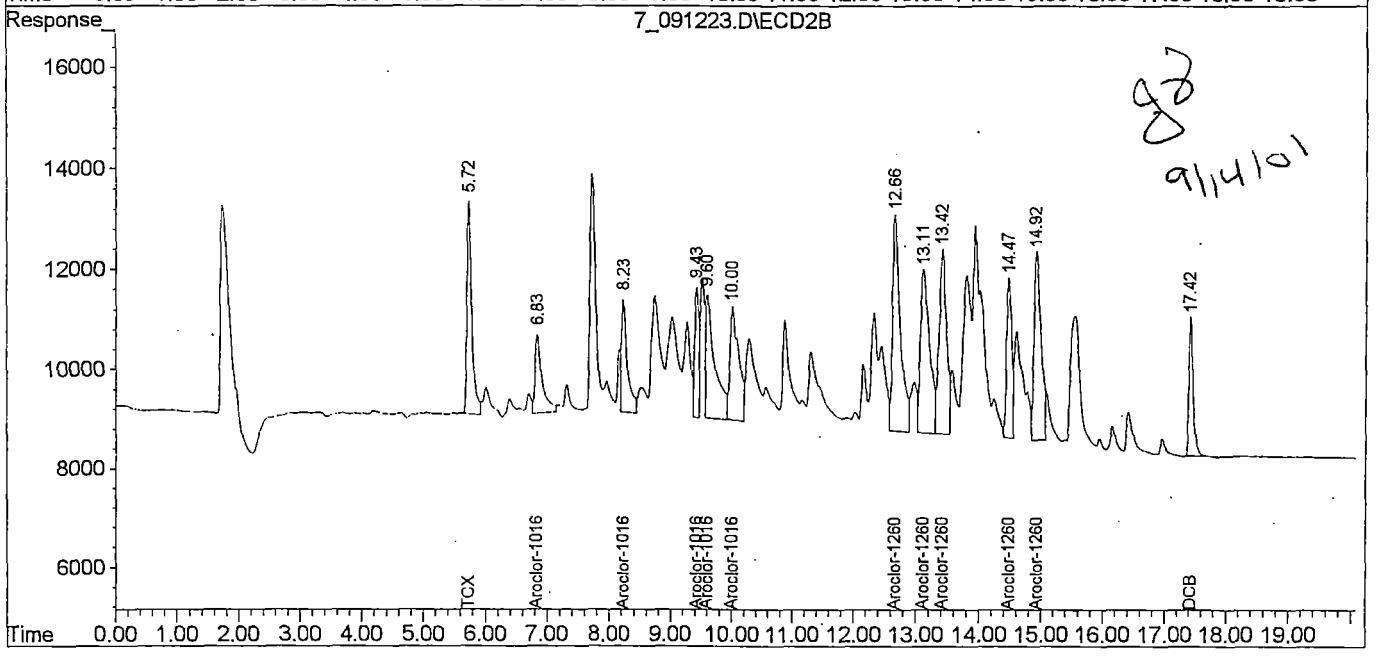
Chromatographic Report

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

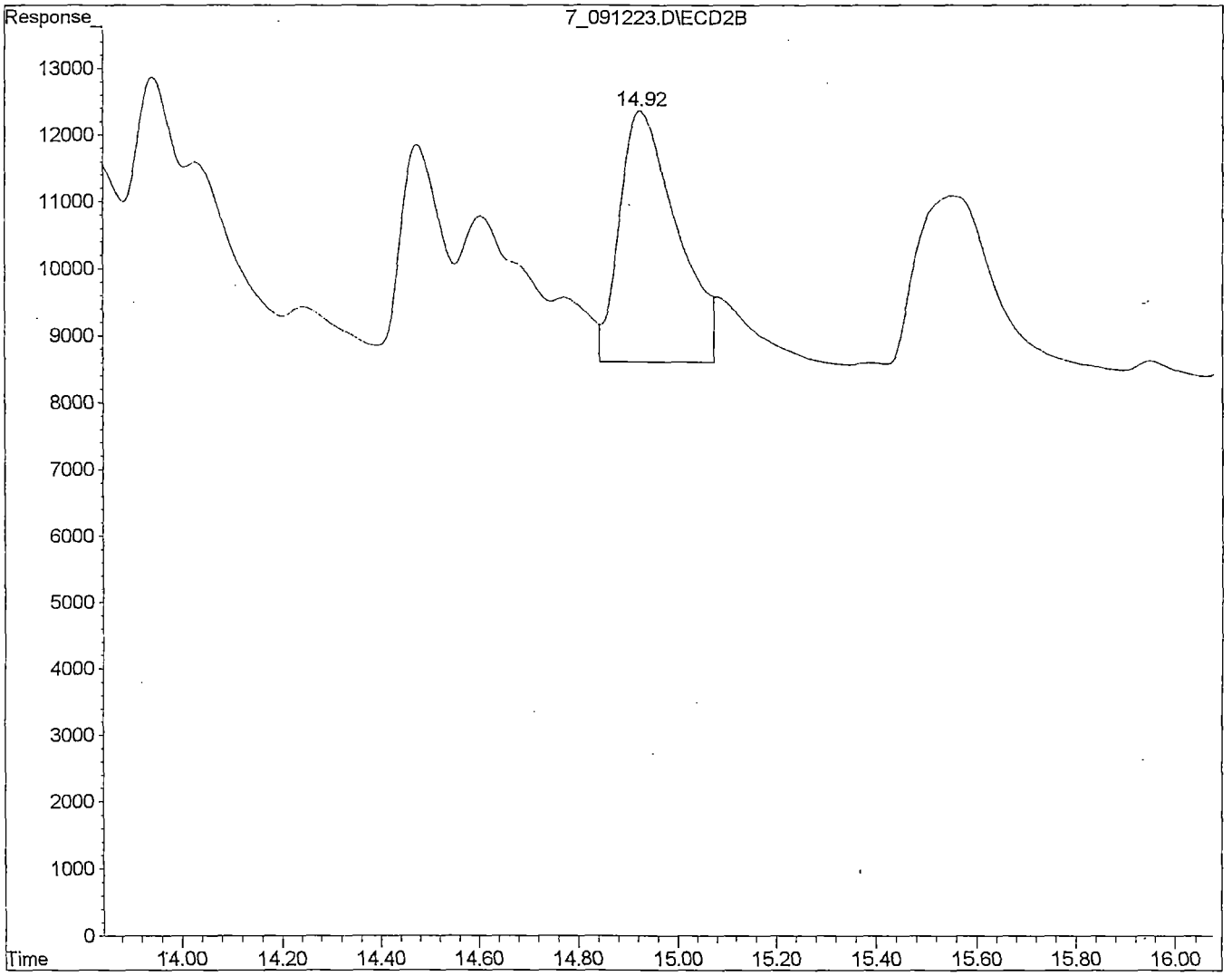
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.72	198211	227904	4.877	4.391
22)	S DCB	16.90	17.42	112419	130180	5.315	5.398
	Target Compounds:						
2)	L1 Aroclor-1016	6.66	6.83	106131	124612	110.0	106.8
3)	L1 Aroclor-1016 {2}	7.89	8.23	140846	153943	107.2	109.5
4)	L1 Aroclor-1016 {3}	8.48	9.43	244429	123287	89.8	105.6
)	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

AD 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 5.13.4

Aroclor-1260 {5} #2 14.92min area: 300964 m

Integration Time Range: 14.84 - 15.07

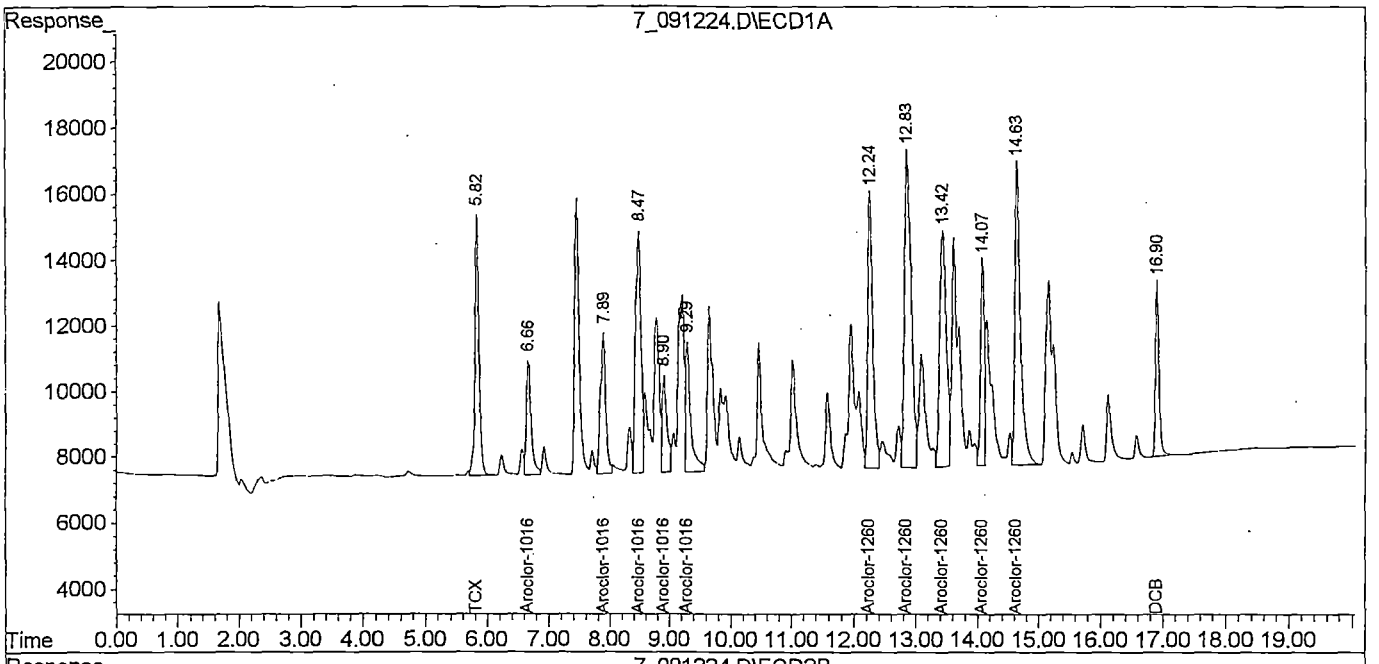
F:\HPCHEM\HP\7\DATA\09_12_01\7_091223.D
Report generated: Thu Sep 13 07:41:39 2001

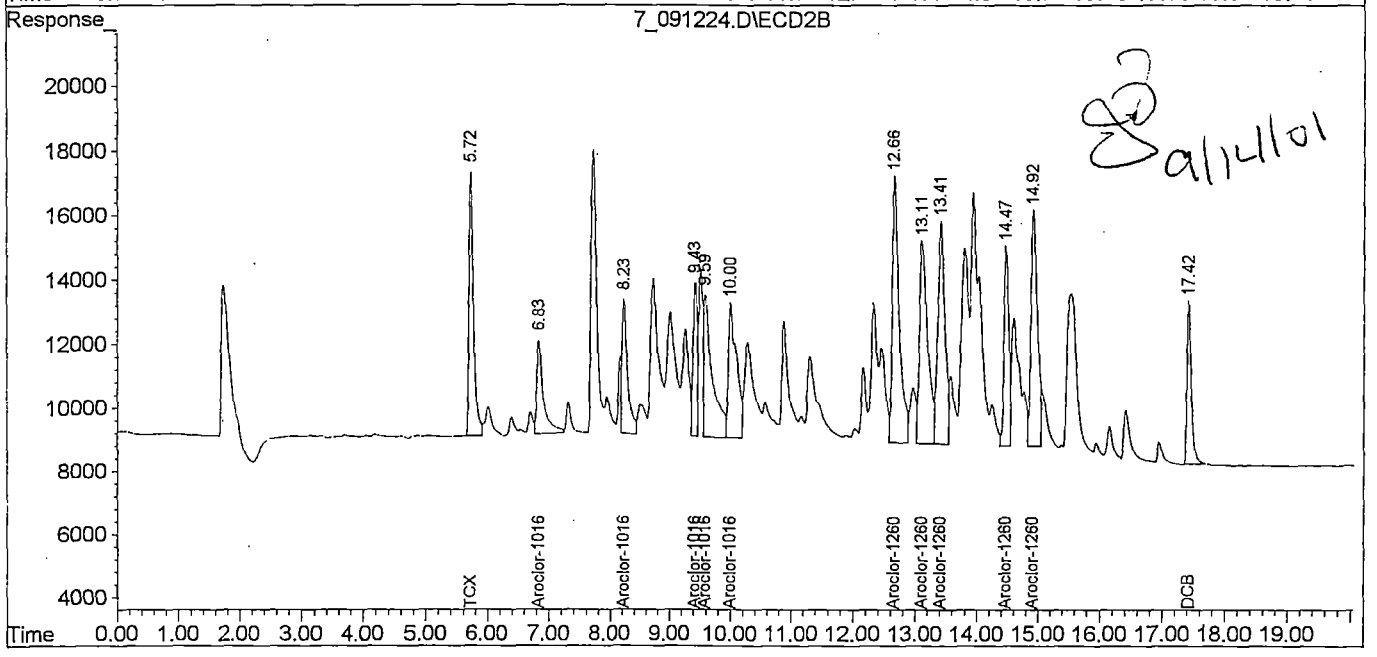
Chromatographic Report

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

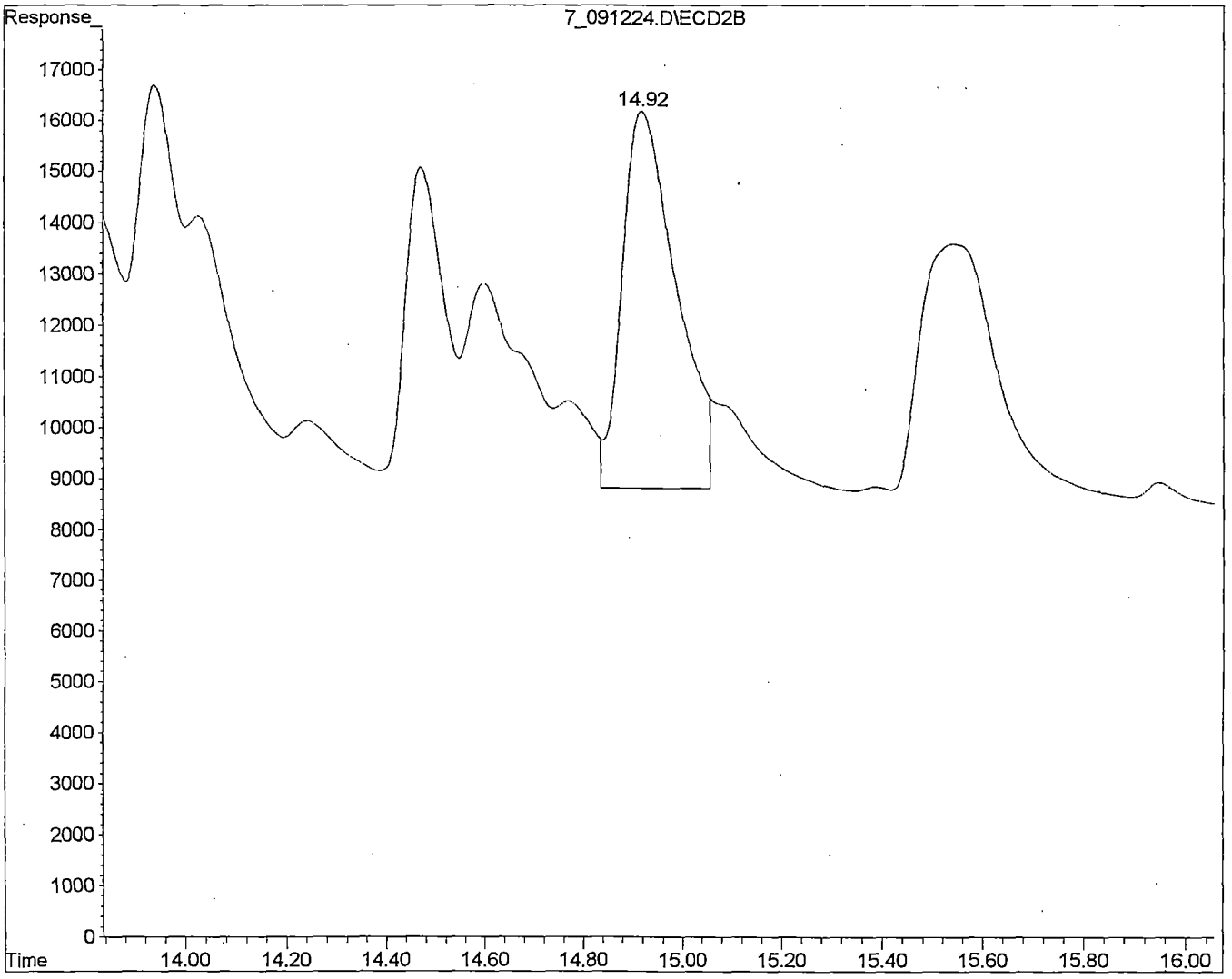
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.72	366849	430387	8.928	7.512
22)	S DCB	16.90	17.42	213959	242317	9.497	9.499
	Target Compounds:						
2)	L1 Aroclor-1016	6.66	6.83	192377	226962	187.4	189.6
3)	L1 Aroclor-1016 {2}	7.89	8.23	261017	270845	177.3	143.6
4)	L1 Aroclor-1016 {3}	8.48	9.43	478982	222560	140.6	175.3
)	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

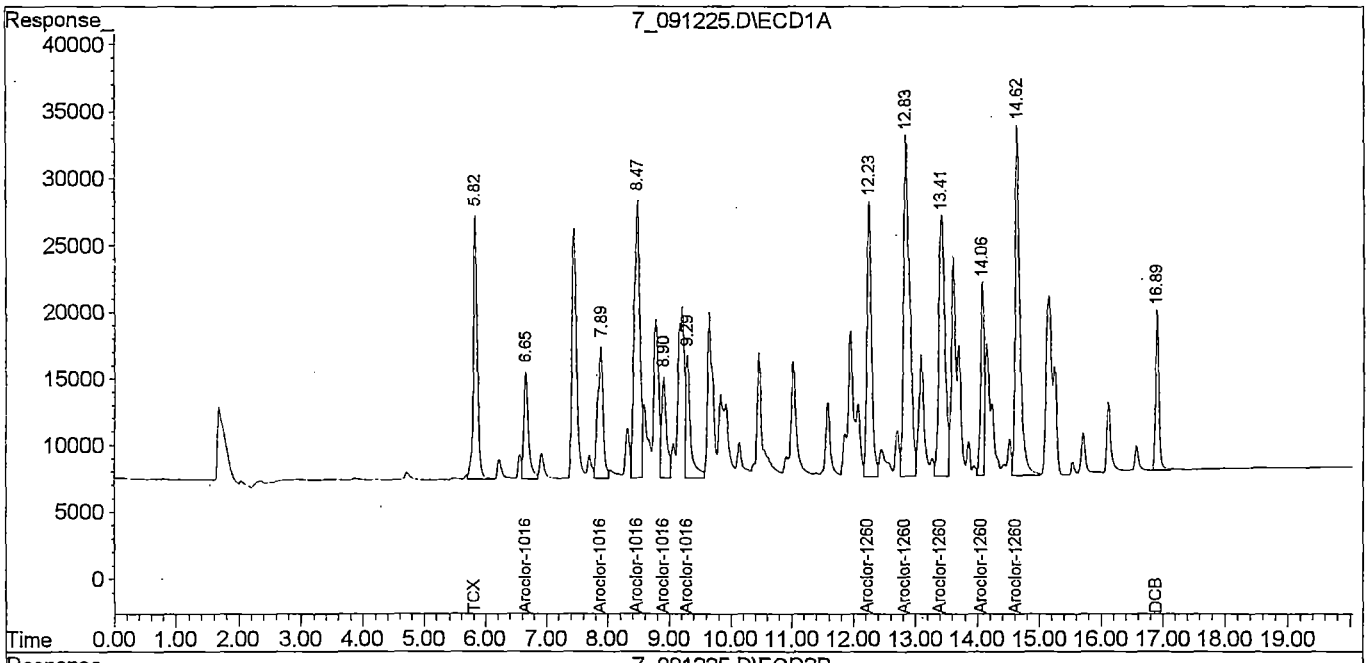
F:\HPCHEM\HP\7\DATA\09_12_01\7_091224.D
Report generated: Thu Sep 13 07:41:40 2001

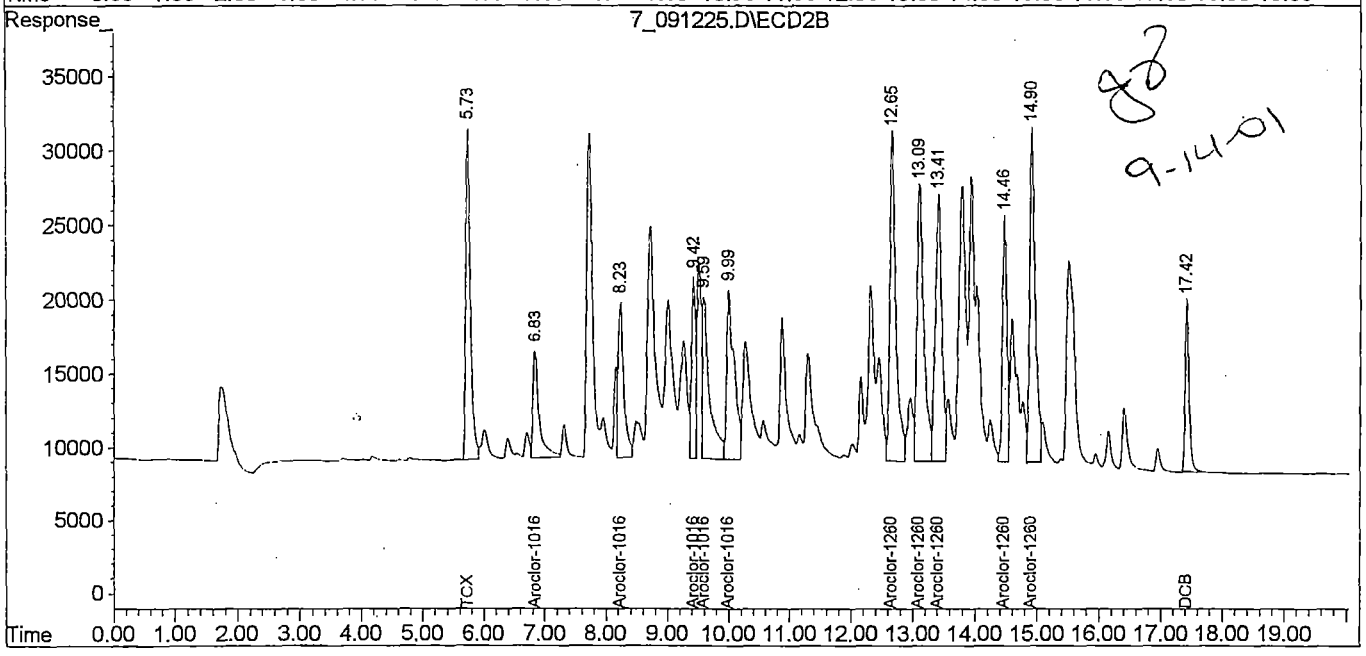
Chromatographic Report

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 : AR1660L370 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





gg
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	
[illegible]	L1 Aroclor-1016 {4}	8.90	9.59	412958	929841	399.9	364.3	
[illegible]	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	

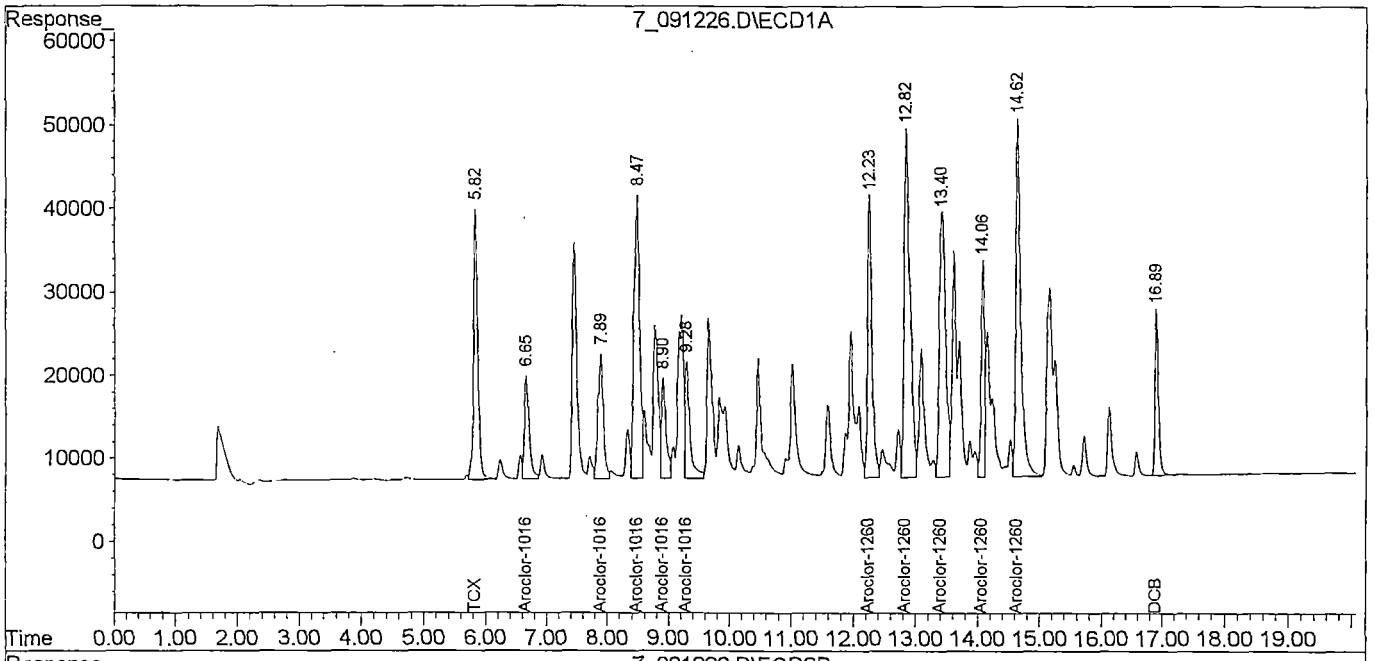
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

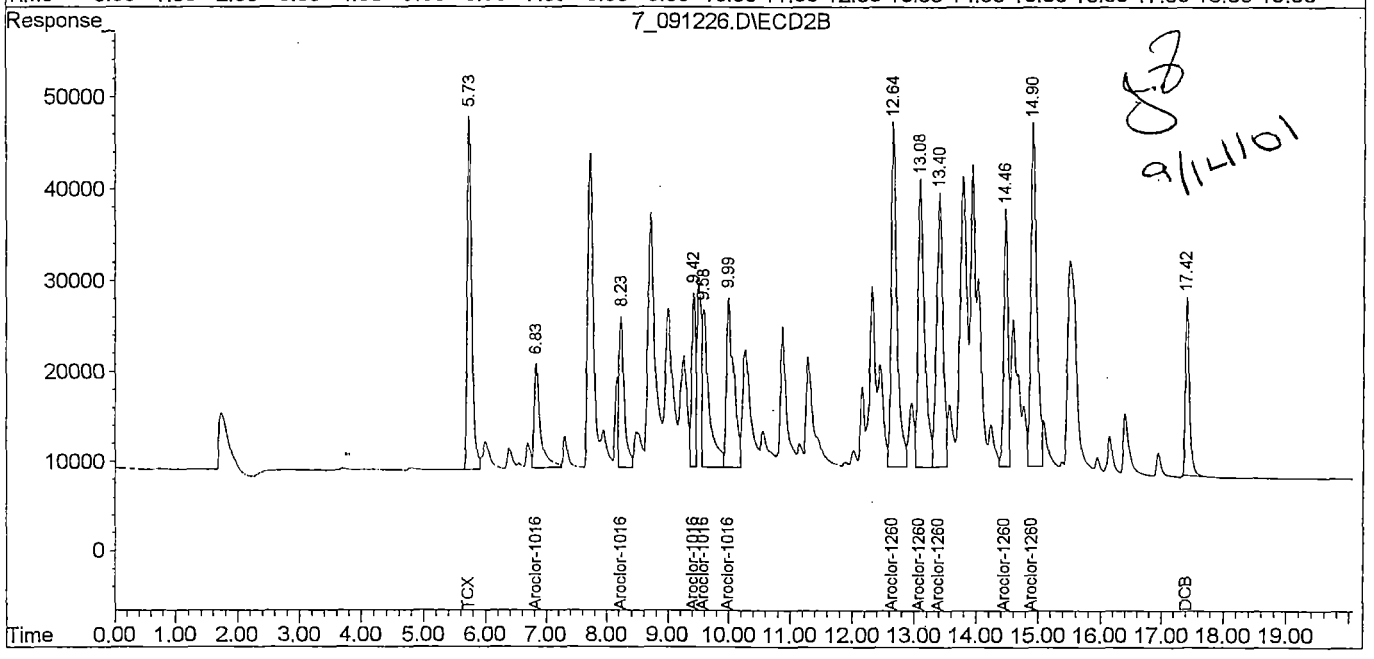
Chromatographic Report

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





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	
)	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	

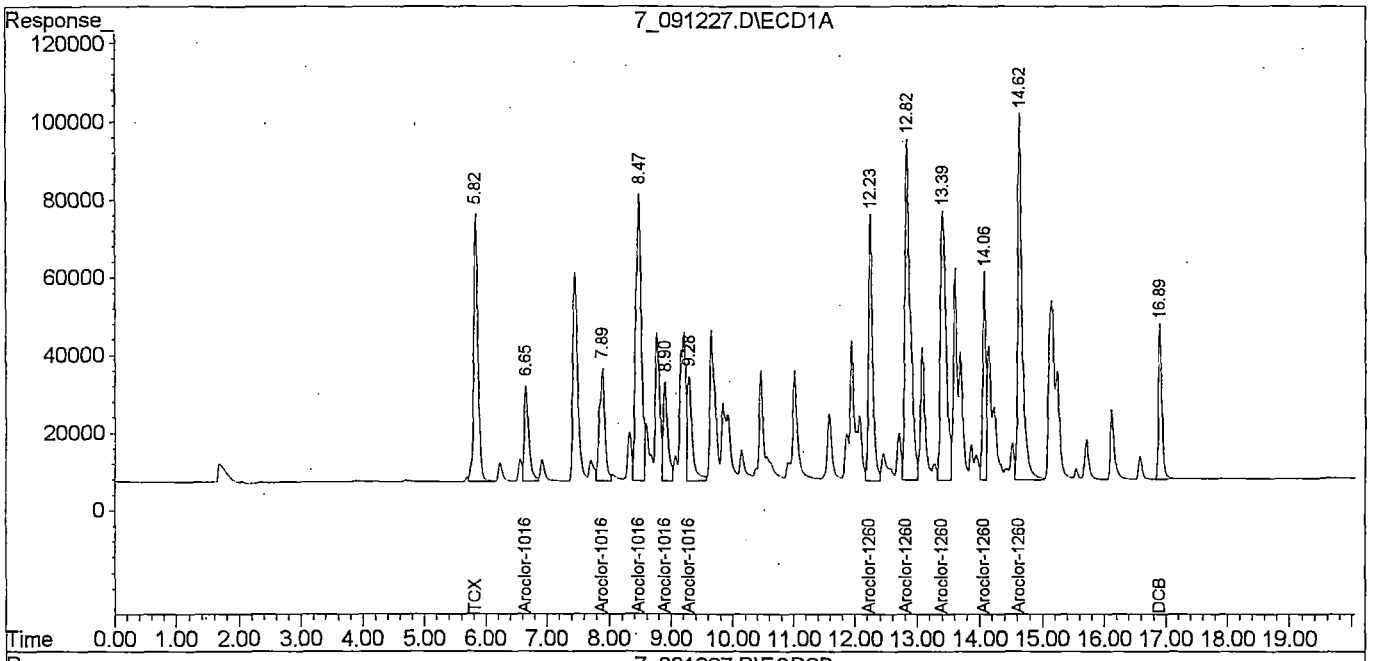
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

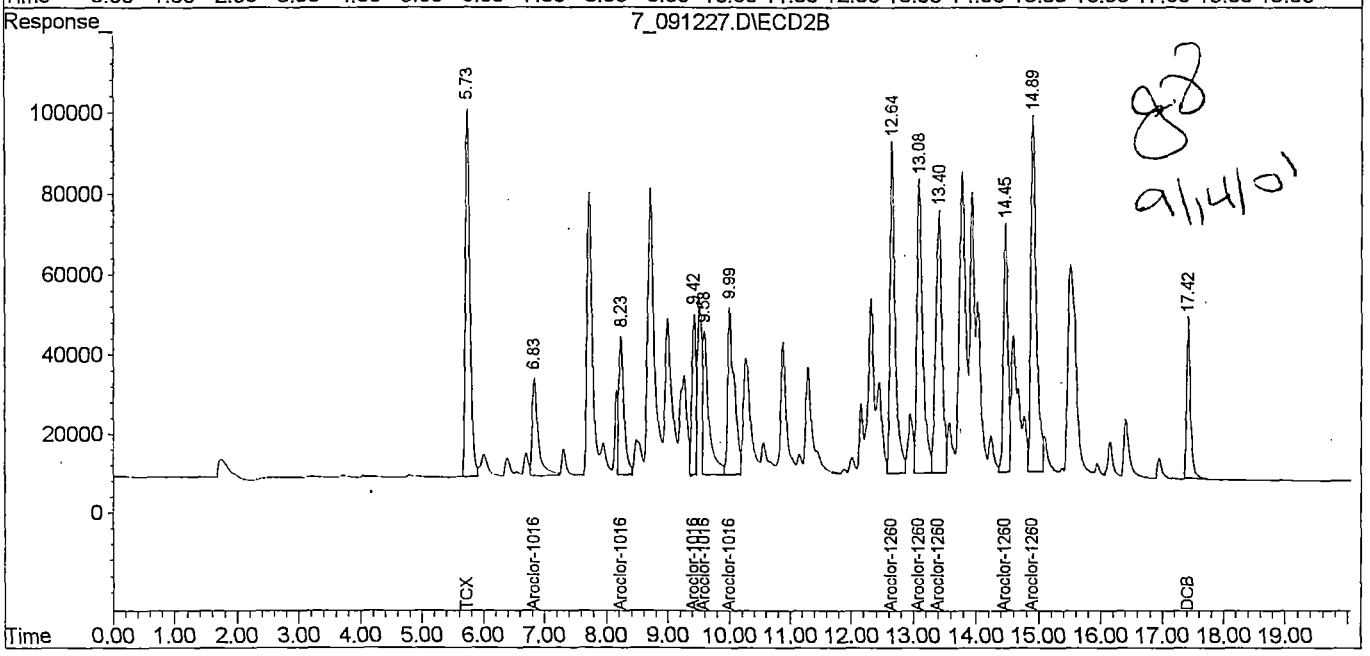
Chromatographic Report

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
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
)	L1 Aroclor-1016 {4}	8.90	9.58	1274709	2580871	1234.3	1011.3 E
o)	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 : Thu Sep 13 09:22:16 2001
Response via : Initial Calibration

Continuing Calibration File: 7_091302.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	41.697	E3	-2.6	87
2	L1	Aroclor-1016	0.965	1.011	E3	-4.8	89
3	L1	Aroclor-1016 {2}	1.314	1.389	E3	-5.8	90
4	L1	Aroclor-1016 {3}	2.723	2.855	E3	-4.9	87
5	L1	Aroclor-1016 {4}	877.995	949.720		-8.2	92
6	L1	Aroclor-1016 {5}	1.130	1.224	E3	-8.3	94
17	L7	Aroclor-1260	2.300	2.514	E3	-9.3	97
18	L7	Aroclor-1260 {2}	3.799	4.205	E3	-10.7	97
19	L7	Aroclor-1260 {3}	2.935	3.310	E3	-12.8	97
20	L7	Aroclor-1260 {4}	1.310	1.444	E3	-10.2	105
21	L7	Aroclor-1260 {5}	3.066	3.526	E3	-15.0	103
22	S	DCB	21.152	24.268	E3	-14.7	107

Signal #2
Continuing Calibration File: 7_091302.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	51.903	50.877	E3	2.0	85
2	L1	Aroclor-1016	1.166	1.249	E3	-7.1	92
3	L1	Aroclor-1016 {2}	1.406	1.479	E3	-5.2	91
4	L1	Aroclor-1016 {3}	1.167	1.252	E3	-7.2	91
5	L1	Aroclor-1016 {4}	2.082	2.191	E3	-5.2	94
6	L1	Aroclor-1016 {5}	2.104	2.216	E3	-5.3	92
17	L7	Aroclor-1260	3.377	3.694	E3	-9.4	97
18	L7	Aroclor-1260 {2}	3.202	3.685	E3	-15.1#	101
19	L7	Aroclor-1260 {3}	2.894	3.218	E3	-11.2	99
20	L7	Aroclor-1260 {4}	1.817	2.112	E3	-16.3#	103
21	L7	Aroclor-1260 {5}	3.166	3.784	E3	-19.5#	105
22	S	DCB	24.116	28.699	E3	-19.0#	112

14.30

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

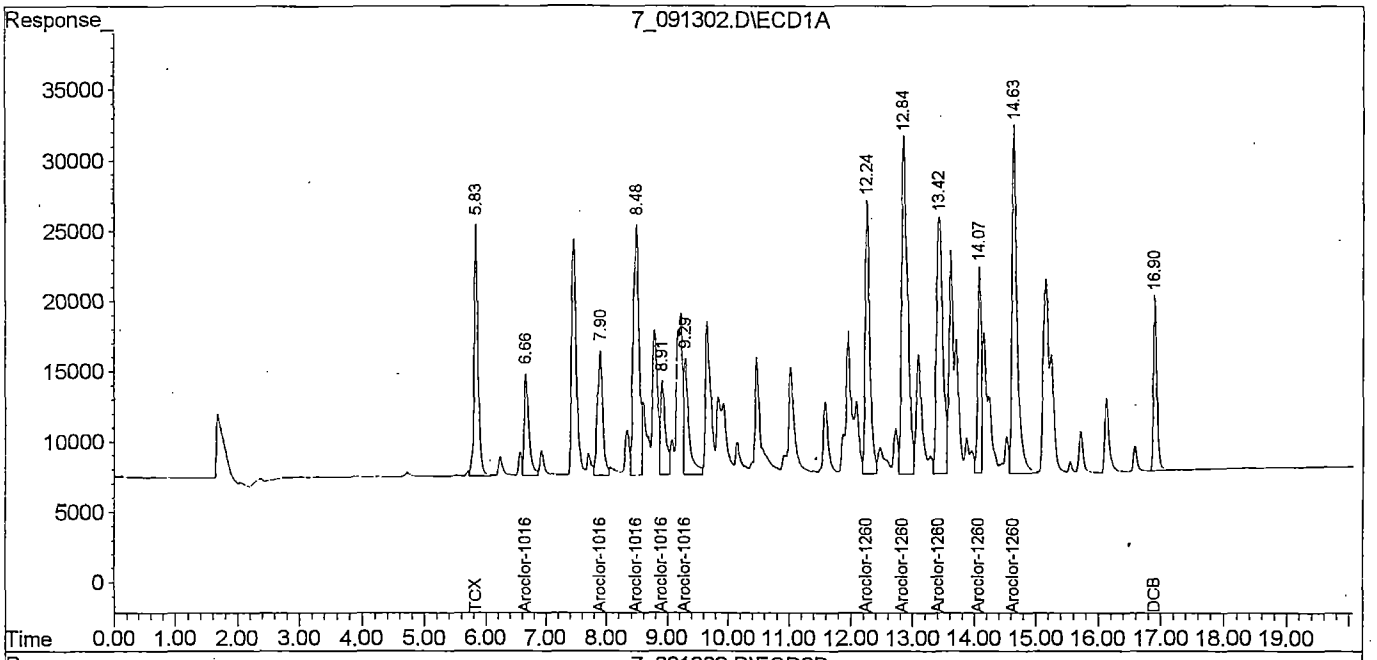
7_091302.D XPCBI12.M Thu Sep 13 09:22:27 2001

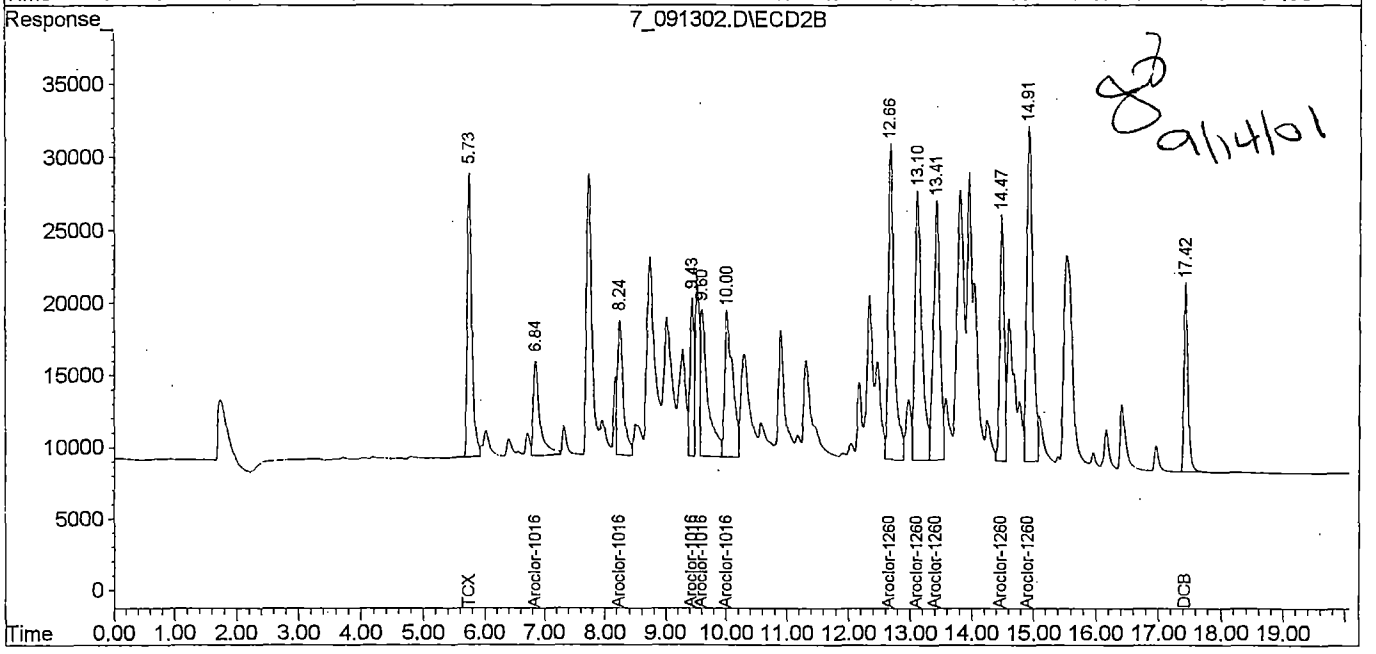
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091302.D\ECD1A.CH Vial: 2
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091302.D\ECD2B.CH
Acq On : 13 Sep 2001 8:55 Operator: SA
Sample : AR1660L37W Inst : HP_07
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 9:22 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_091302.D\ECD1A.CH Vial: 2
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091302.D\ECD2B.CH
Acq On : 13 Sep 2001 8:55 Operator: SA
Sample : AR1660L37W Inst : HP_07
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 9:22 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

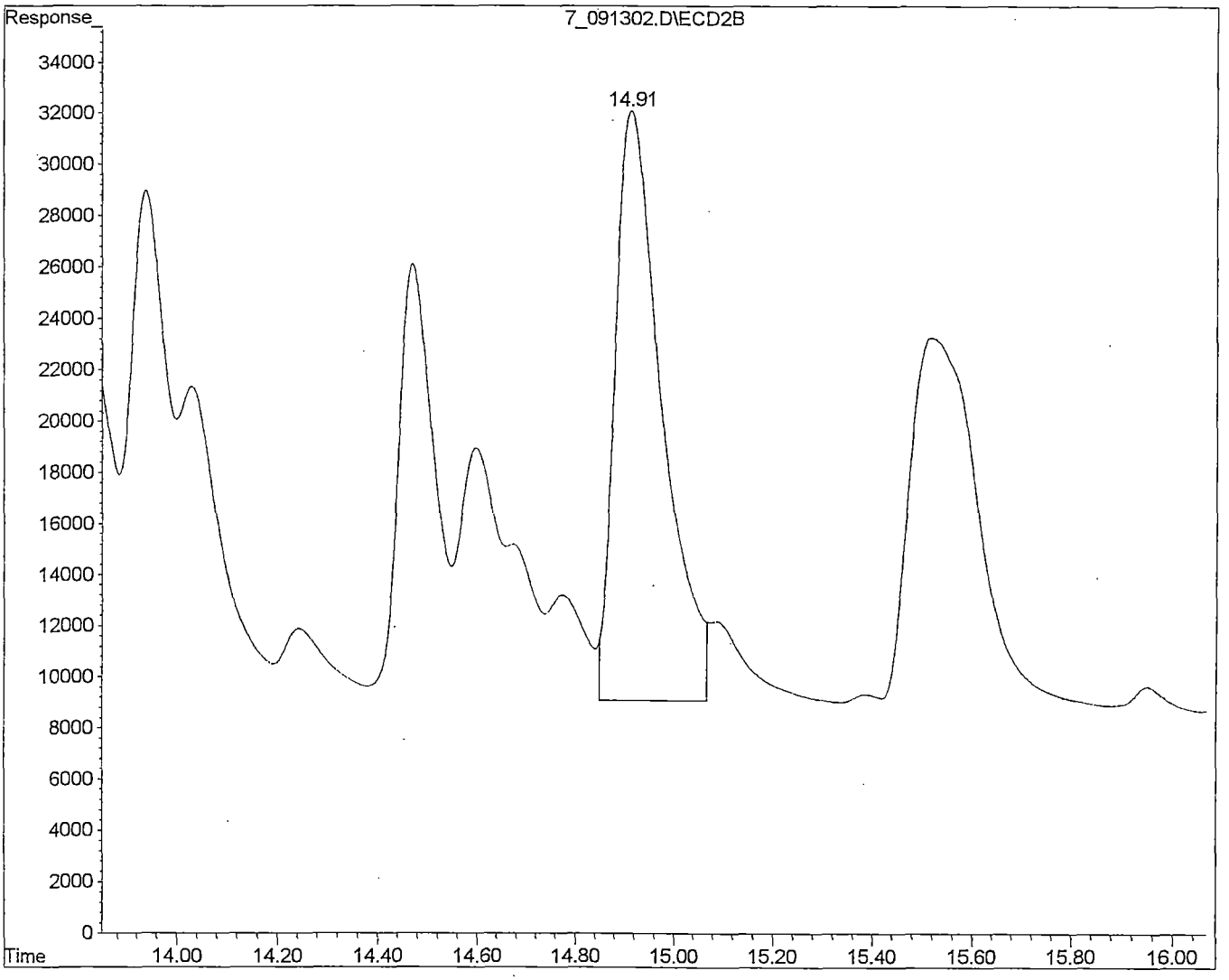
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	833931	1017541	20.5	19.6
22)	S DCB	16.90	17.43	485360	573974	22.9	23.8
	Target Compounds:						
2)	L1 Aroclor-1016	6.66	6.84	404248	499584	419.1	428.3
3)	L1 Aroclor-1016 {2}	7.90	8.24	555778	591723	423.1	420.8
4)	L1 Aroclor-1016 {3}	8.48	9.43	1142110	500759	419.5	428.9
)	L1 Aroclor-1016 {4}	8.91	9.60	379888	876516	432.7	421.0
6)	L1 Aroclor-1016 {5}	9.29	10.00	489546	886312	433.4	421.3
	Sum Aroclor-1016			2971570	3354894	2127.8	2120.2
	Average Aroclor-1016					425.551	424.036
17)	L7 Aroclor-1260	12.24	12.66	1005447	1477535	437.1	437.5
18)	L7 Aroclor-1260 {2}	12.84	13.10	1682001	1473944	442.8	460.4
19)	L7 Aroclor-1260 {3}	13.42	13.41	1324130	1287020	451.2	444.7
20)	L7 Aroclor-1260 {4}	14.07	14.47	577602	844974	440.9	465.1
21)	L7 Aroclor-1260 {5}	14.63	14.91	1410333	1513579	459.9	478.0m
	Sum Aroclor-1260			5999513	6597052	2232.0	2285.6
	Average Aroclor-1260					446.395	457.122

ok 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_13_01\7_091302.D
Date Acquired: 13 Sep 2001 8:55
Inst: HP_07 Operator ID: SA
Name: AR1660L37W
Misc: 5-128-7
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 13 9:22 2001 Quant Results File: XPCBI12.RES



cd 9-13-01

Aroclor-1260 {5} #2 14.91min area: 1513579 m

Integration Time Range: 14.85 - 15.07

F:\HPCHEM\HP\7\DATA\09_13_01\7_091302.D
Report generated: Thu Sep 13 09:52:41 2001

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 : Thu Sep 13 17:27:06 2001
Response via : Initial Calibration

Continuing Calibration File: 7_091319.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	44.559	E3	-9.6	93
2	L1	Aroclor-1016	0.965	1.081	E3	-12.0	95
3	L1	Aroclor-1016 {2}	1.314	1.494	E3	-13.8	96
4	L1	Aroclor-1016 {3}	2.723	3.052	E3	-12.1	93
5	L1	Aroclor-1016 {4}	877.995	1029.366		-17.2#	100
6	L1	Aroclor-1016 {5}	1.130	1.338	E3	-18.5#	102
17	L7	Aroclor-1260	2.300	2.679	E3	-16.4#	103
18	L7	Aroclor-1260 {2}	3.799	4.472	E3	-17.7#	103
19	L7	Aroclor-1260 {3}	2.935	3.512	E3	-19.7#	103
20	L7	Aroclor-1260 {4}	1.310	1.531	E3	-16.8#	111
21	L7	Aroclor-1260 {5}	3.066	3.797	E3	-23.8#	111
22	S	DCB	21.152	27.446	E3	-29.8#	121

Signal #2
Continuing Calibration File: 7_091319.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	51.903	54.545	E3	-5.1	91
2	L1	Aroclor-1016	1.166	1.334	E3	-14.3	98
3	L1	Aroclor-1016 {2}	1.406	1.617	E3	-14.9	99
4	L1	Aroclor-1016 {3}	1.167	1.345	E3	-15.2#	98
5	L1	Aroclor-1016 {4}	2.082	2.437	E3	-17.0#	105
6	L1	Aroclor-1016 {5}	2.104	2.398	E3	-14.0	99
17	L7	Aroclor-1260	3.377	3.923	E3	-16.2#	103
18	L7	Aroclor-1260 {2}	3.202	3.882	E3	-21.3#	106
19	L7	Aroclor-1260 {3}	2.894	3.415	E3	-18.0#	105
20	L7	Aroclor-1260 {4}	1.817	2.229	E3	-22.7#	108
21	L7	Aroclor-1260 {5}	3.166	4.037	E3	-27.5#	112
22	S	DCB	24.116	32.554	E3	-35.0#	127

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

7_091319.D XPCBI12.M Thu Sep 13 17:27:18 2001

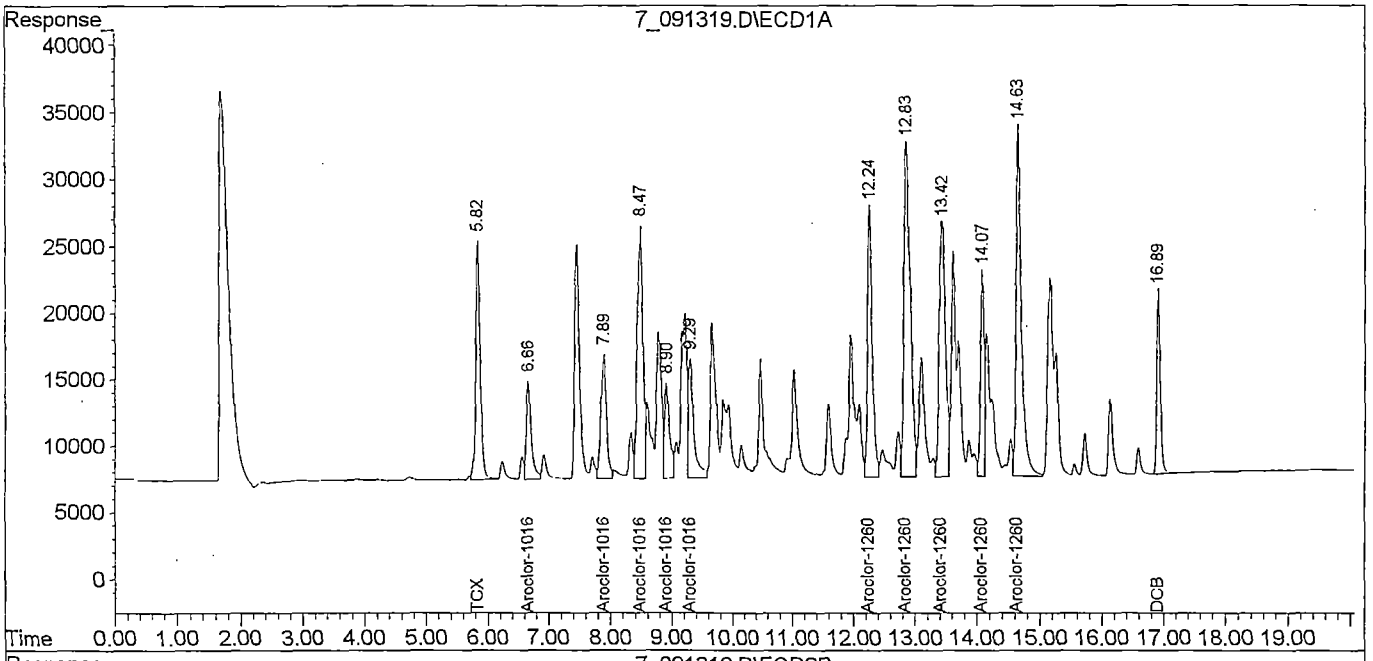
260A

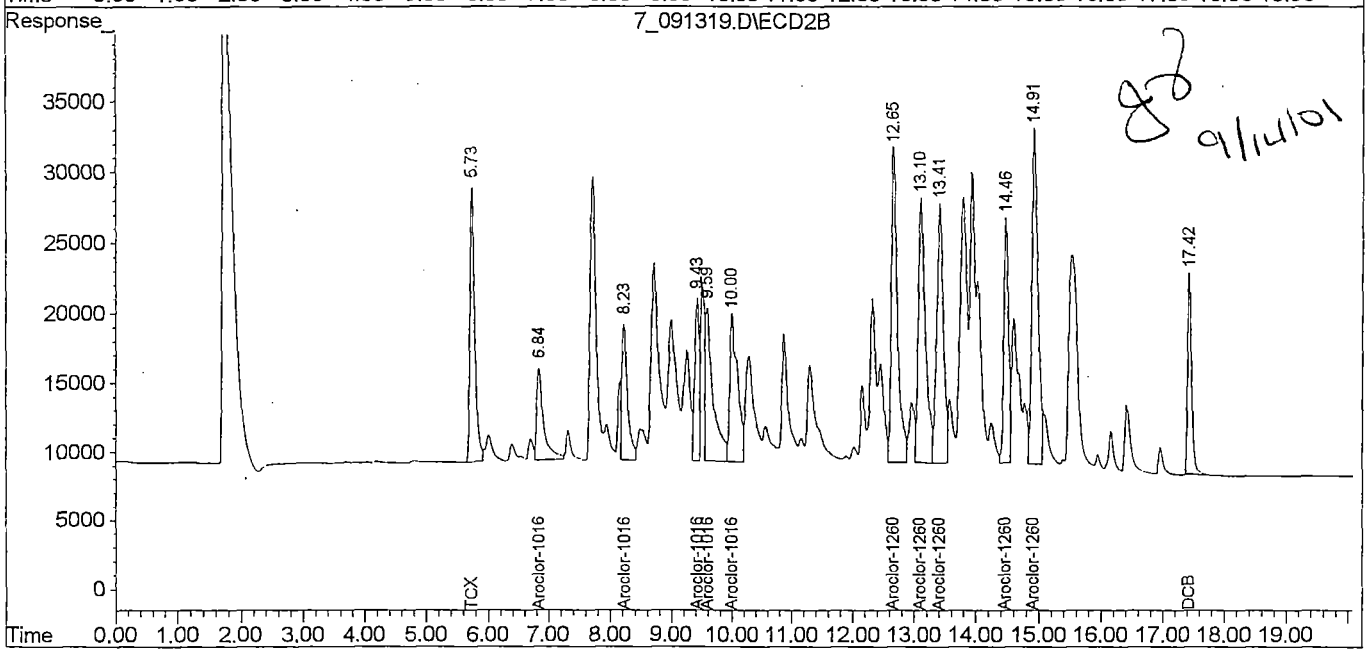
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091319.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091319.D\ECD2B.CH
Acq On : 13 Sep 2001 15:49 Operator: SA
Sample : AR1660L371 Inst : HP_07
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 17:23 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_091319.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091319.D\ECD2B.CH
Acq On : 13 Sep 2001 15:49 Operator: SA
Sample : AR1660L371 Inst : HP_07
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 17:23 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

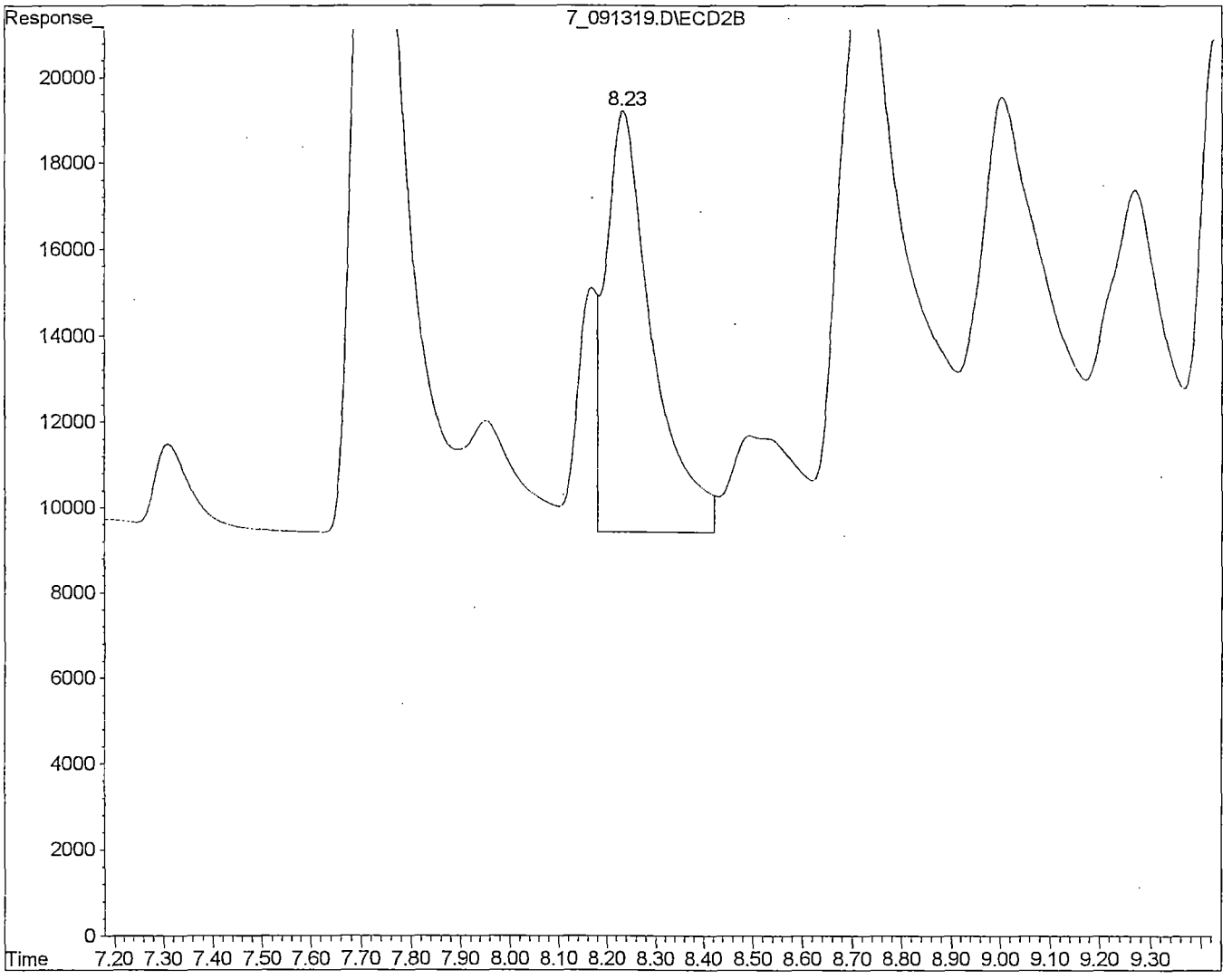
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	891189	1090891	21.9	21.0
22)	S DCB	16.90	17.42	548917	651073	26.0	27.0
	Target Compounds:						
2)	L1 Aroclor-1016	6.66	6.84	432309	533410	448.2	457.3
3)	L1 Aroclor-1016 {2}	7.89	8.23	597782	646618	455.1	459.8m
4)	L1 Aroclor-1016 {3}	8.48	9.43	1220601	537838	448.3	460.7
)	L1 Aroclor-1016 {4}	8.90	9.59	411746	974648	469.0	468.1
o)	L1 Aroclor-1016 {5}	9.29	10.00	535367	959288	474.0	455.9
	Sum Aroclor-1016			3197806	3651801	2294.5	2301.8
	Average Aroclor-1016					458.901	460.357
17)	L7 Aroclor-1260	12.24	12.65	1071472	1569367	465.8	464.7
18)	L7 Aroclor-1260 {2}	12.83	13.10	1788724	1552981	470.9	485.1
19)	L7 Aroclor-1260 {3}	13.42	13.41	1404715	1365818	478.7	471.9
20)	L7 Aroclor-1260 {4}	14.07	14.47	612221	891504	467.4	490.7
21)	L7 Aroclor-1260 {5}	14.63	14.91	1518894	1614649	495.3	509.9m
	Sum Aroclor-1260			6396026	6994319	2378.1	2422.2
	Average Aroclor-1260					475.613	484.449

cd 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_13_01\7_091319.D
Date Acquired: 13 Sep 2001 15:49
Inst: HP_07 Operator ID: SA
Name: AR1660L371
Misc: 5-128-7
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 13 17:23 2001 Quant Results File: XPCBI12.RES



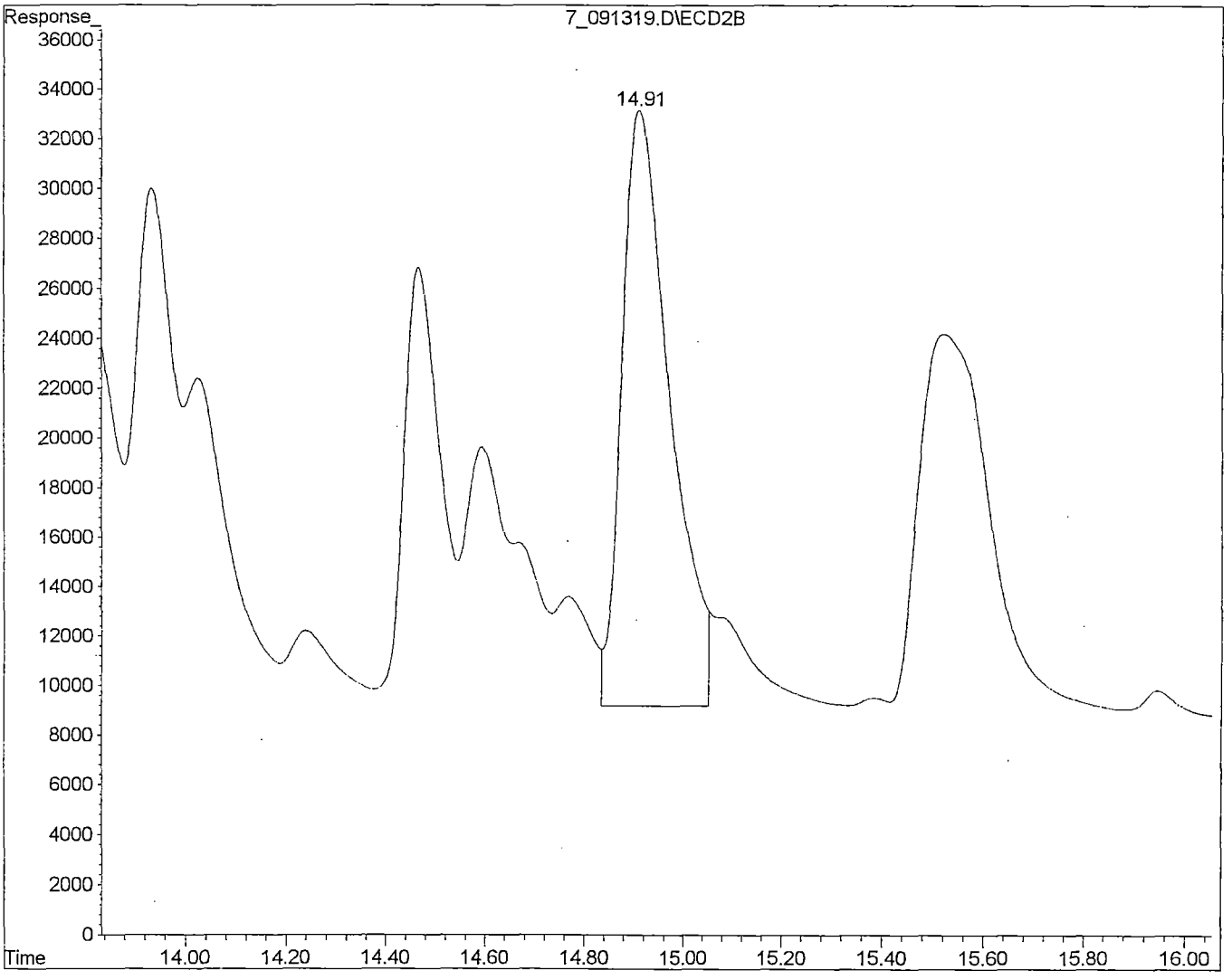
Aroclor-1016 {2} #2 8.23min area: 646618 m

Integration Time Range: 8.18 - 8.42

F:\HPCHEM\HP\7\DATA\09_13_01\7_091319.D
Report generated: Thu Sep 13 17:29:17 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091319.D
Date Acquired: 13 Sep 2001 15:49
Inst: HP_07 Operator ID: SA
Name: AR1660L371
Misc: 5-128-7
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 13 17:23 2001 Quant Results File: XPCBI12.RES



AG.14.01

Aroclor-1260 {5} #2 14.91min area: 1614649 m

Integration Time Range: 14.83 - 15.05

F:\HPCHEM\HP\7\DATA\09_13_01\7_091319.D
Report generated: Thu Sep 13 17:29:18 2001

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 : Thu Sep 13 17:25:38 2001
Response via : Initial Calibration

Continuing Calibration File: 7_091320.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	45.656	E3	-12.3	95
2	L1	Aroclor-1016	0.965	1.083	E3	-12.3	96
3	L1	Aroclor-1016 {2}	1.314	1.489	E3	-13.3	96
4	L1	Aroclor-1016 {3}	2.723	3.038	E3	-11.6	93
5	L1	Aroclor-1016 {4}	877.995	1013.178		-15.4#	98
6	L1	Aroclor-1016 {5}	1.130	1.318	E3	-16.7#	101
17	L7	Aroclor-1260	2.300	2.516	E3	-9.4	97
18	L7	Aroclor-1260 {2}	3.799	4.110	E3	-8.2	95
19	L7	Aroclor-1260 {3}	2.935	3.170	E3	-8.0	93
20	L7	Aroclor-1260 {4}	1.310	1.361	E3	-3.9	99
21	L7	Aroclor-1260 {5}	3.066	3.240	E3	-5.7	94
22	S	DCB	21.152	20.596	E3	2.6	91

Signal #2
Continuing Calibration File: 7_091320.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	51.903	56.310	E3	-8.5	94
2	L1	Aroclor-1016	1.166	1.331	E3	-14.1	98
3	L1	Aroclor-1016 {2}	1.406	1.572	E3	-11.7	96
4	L1	Aroclor-1016 {3}	1.167	1.310	E3	-12.2	95
5	L1	Aroclor-1016 {4}	2.082	2.387	E3	-14.6	103
6	L1	Aroclor-1016 {5}	2.104	2.331	E3	-10.8	97
17	L7	Aroclor-1260	3.377	3.659	E3	-8.3	96
18	L7	Aroclor-1260 {2}	3.202	3.523	E3	-10.0	97
19	L7	Aroclor-1260 {3}	2.894	3.143	E3	-8.6	97
20	L7	Aroclor-1260 {4}	1.817	1.952	E3	-7.4	95
21	L7	Aroclor-1260 {5}	3.166	3.437	E3	-8.5	95
22	S	DCB	24.116	24.417	E3	-1.3	95

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

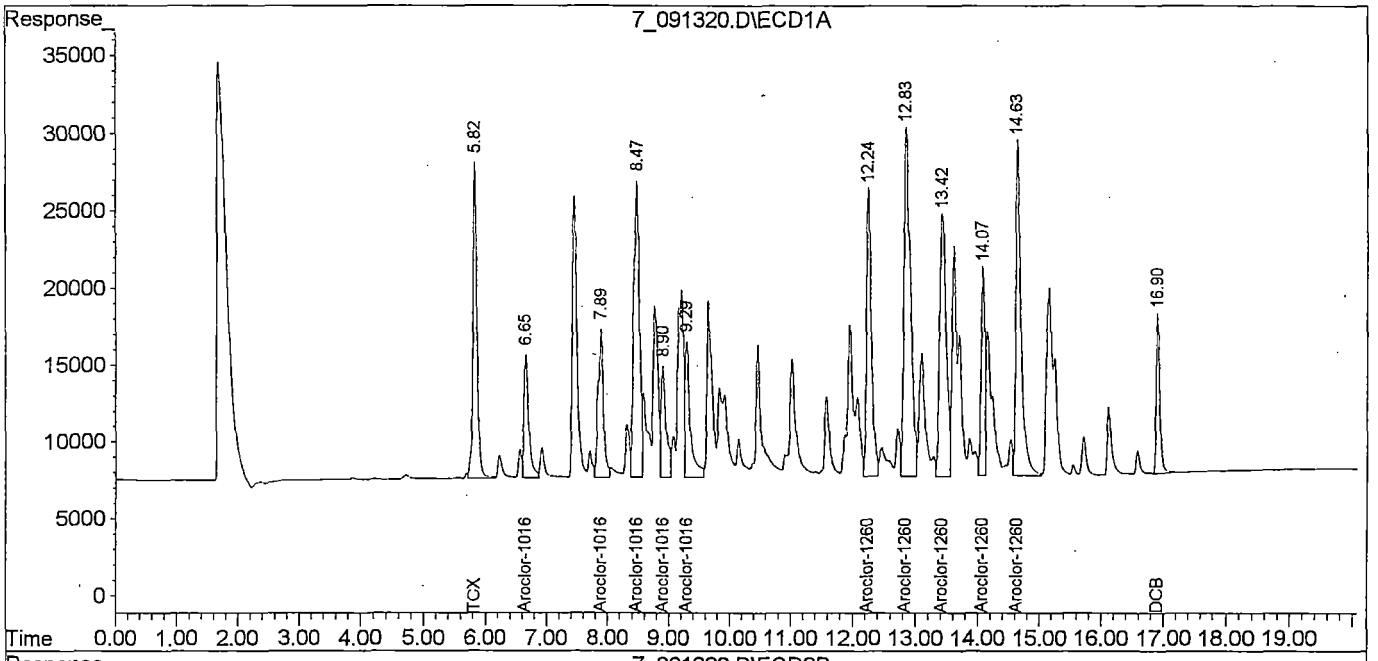
7_091320.D XPCBI12.M Thu Sep 13 17:25:48 2001

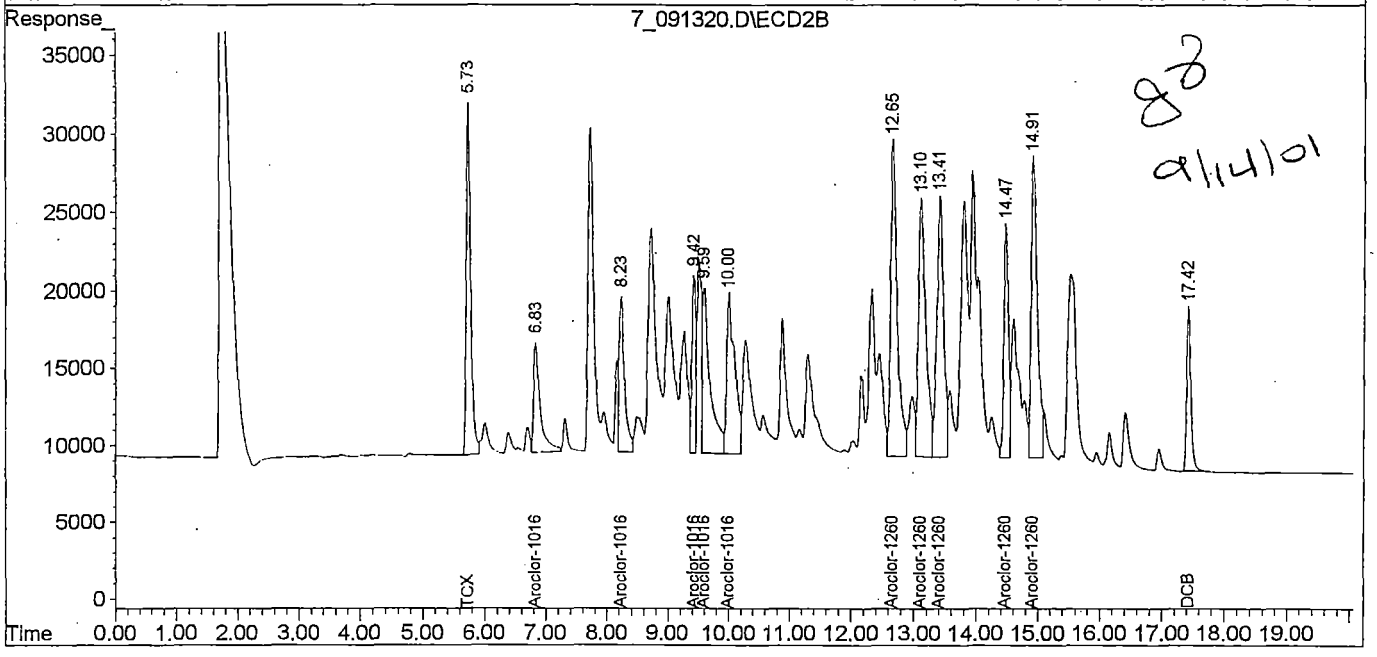
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091320.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091320.D\ECD2B.CH
Acq On : 13 Sep 2001 16:13 Operator: SA
Sample : AR1660L372 Inst : HP_07
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 17:25 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





8d
9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091320.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091320.D\ECD2B.CH
Acq On : 13 Sep 2001 16:13 Operator: SA
Sample : AR1660L372 Inst : HP_07
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 17:25 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

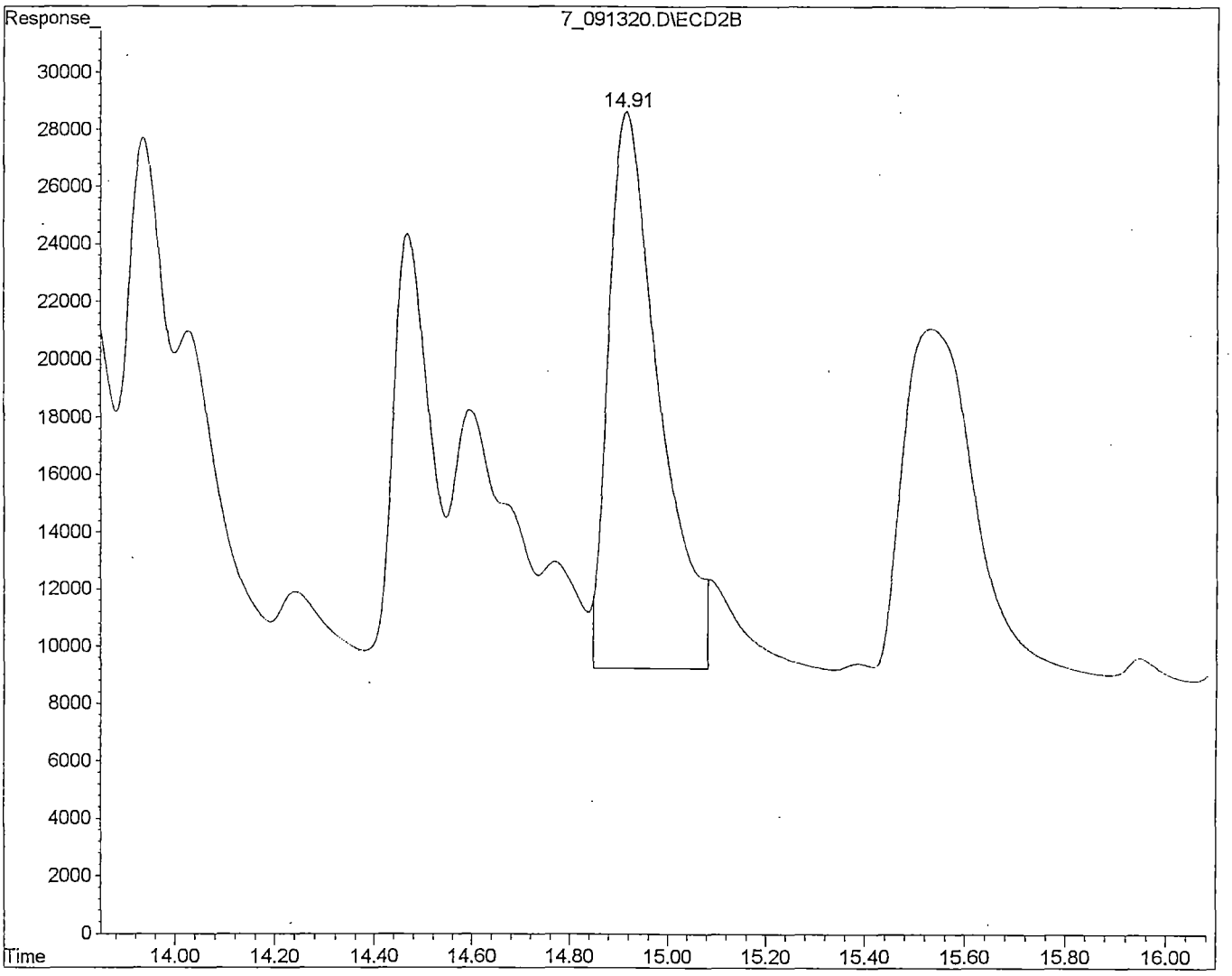
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	913117	1126193	22.5	21.7
22)	S DCB	16.90	17.42	411916	488348	19.5	20.3
	Target Compounds:						
2)	L1 Aroclor-1016	6.65	6.83	433098	532286	449.0	456.3
3)	L1 Aroclor-1016 {2}	7.89	8.23	595565	628636	453.4	447.0
4)	L1 Aroclor-1016 {3}	8.47	9.43	1215093	523950	446.3	448.8
)	L1 Aroclor-1016 {4}	8.90	9.59	405271	954711	461.6	458.5
o)	L1 Aroclor-1016 {5}	9.29	10.00	527112	932265	466.7	443.1
	Sum Aroclor-1016			3176139	3571848	2276.9	2253.7
	Average Aroclor-1016					455.386	450.744
17)	L7 Aroclor-1260	12.24	12.66	1006351	1463570	437.5	433.3
18)	L7 Aroclor-1260 {2}	12.83	13.10	1643943	1409026	432.8	440.1
19)	L7 Aroclor-1260 {3}	13.42	13.41	1267890	1257303	432.1	434.4
20)	L7 Aroclor-1260 {4}	14.07	14.47	544271	780727	415.5	429.7
21)	L7 Aroclor-1260 {5}	14.63	14.91	1296075	1374738	422.7	434.2m
	Sum Aroclor-1260			5758529	6285365	2140.5	2171.7
	Average Aroclor-1260					428.096	434.345

AS 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_13_01\7_091320.D
Date Acquired: 13 Sep 2001 16:13
Inst: HP_07 Operator ID: SA
Name: AR1660L372
Misc: 5-128-7
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 13 17:25 2001 Quant Results File: XPCBI12.RES



9.14.01

Aroclor-1260 {5} #2 14.91min area: 1374738 m

Integration Time Range: 14.85 - 15.08

F:\HPCHEM\HP\7\DATA\09_13_01\7_091320.D
Report generated: Thu Sep 13 17:29:20 2001

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 06:55:47 2001
Response via : Initial Calibration

Continuing Calibration File: 7_091333.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	45.706	E3	-12.5	96
2	L1	Aroclor-1016	0.965	1.075	E3	-11.4	95
3	L1	Aroclor-1016 {2}	1.314	1.458	E3	-11.0	94
4	L1	Aroclor-1016 {3}	2.723	2.935	E3	-7.8	89
5	L1	Aroclor-1016 {4}	877.995	974.695		-11.0	94
6	L1	Aroclor-1016 {5}	1.130	1.253	E3	-11.0	96
17	L7	Aroclor-1260	2.300	2.470	E3	-7.4	95
18	L7	Aroclor-1260 {2}	3.799	4.114	E3	-8.3	95
19	L7	Aroclor-1260 {3}	2.935	3.227	E3	-10.0	95
20	L7	Aroclor-1260 {4}	1.310	1.417	E3	-8.2	103
21	L7	Aroclor-1260 {5}	3.066	3.434	E3	-12.0	100
22	S	DCB	21.152	22.759	E3	-7.6	100

Signal #2
Continuing Calibration File: 7_091333.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	51.903	56.544	E3	-8.9	95
2	L1	Aroclor-1016	1.166	1.355	E3	-16.2#	99
3	L1	Aroclor-1016 {2}	1.406	1.561	E3	-11.0	96
4	L1	Aroclor-1016 {3}	1.167	1.294	E3	-10.8	94
5	L1	Aroclor-1016 {4}	2.082	2.279	E3	-9.4	98
6	L1	Aroclor-1016 {5}	2.104	2.276	E3	-8.2	94
17	L7	Aroclor-1260	3.377	3.625	E3	-7.3	95
18	L7	Aroclor-1260 {2}	3.202	3.596	E3	-12.3	99
19	L7	Aroclor-1260 {3}	2.894	3.167	E3	-9.4	97
20	L7	Aroclor-1260 {4}	1.817	2.065	E3	-13.7	100
21	L7	Aroclor-1260 {5}	3.166	3.795	E3	-19.9#	105
22	S	DCB	24.116	27.398	E3	-13.6	106

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

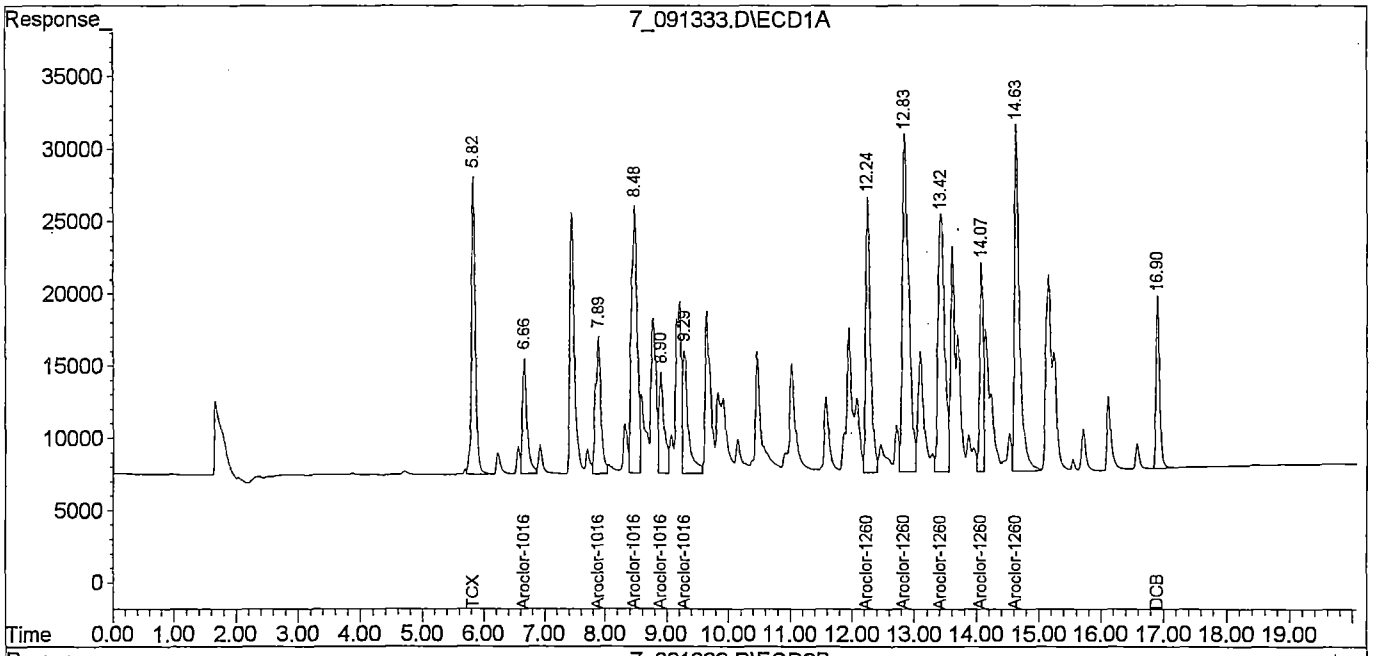
7_091333.D XPCBI12.M Fri Sep 14 06:55:57 2001

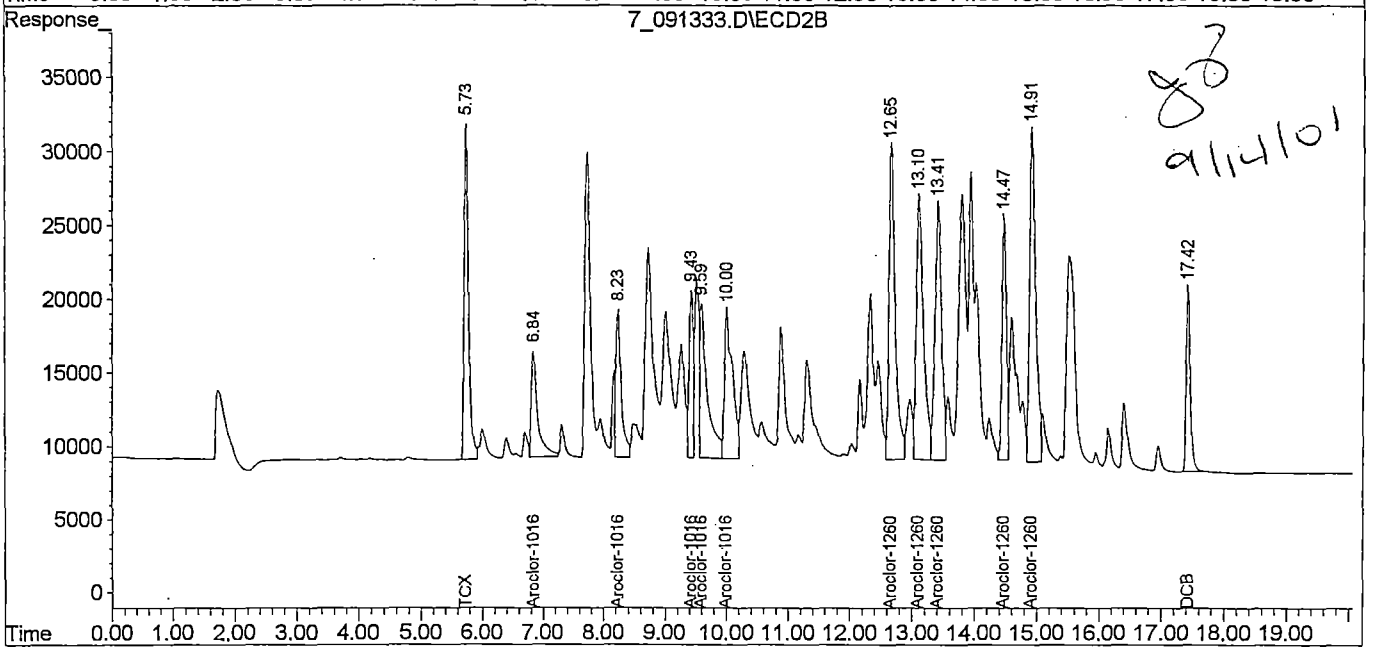
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091333.D\ECD1A.CH Vial: 33
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091333.D\ECD2B.CH
Acq On : 13 Sep 2001 22:32 Operator: SA
Sample : AR1660L373 Inst : HP_07
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 6:55 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_091333.D\ECD1A.CH Vial: 33
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091333.D\ECD2B.CH
Acq On : 13 Sep 2001 22:32 Operator: SA
Sample : AR1660L373 Inst : HP_07
Misc : 5-128-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 6:55 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

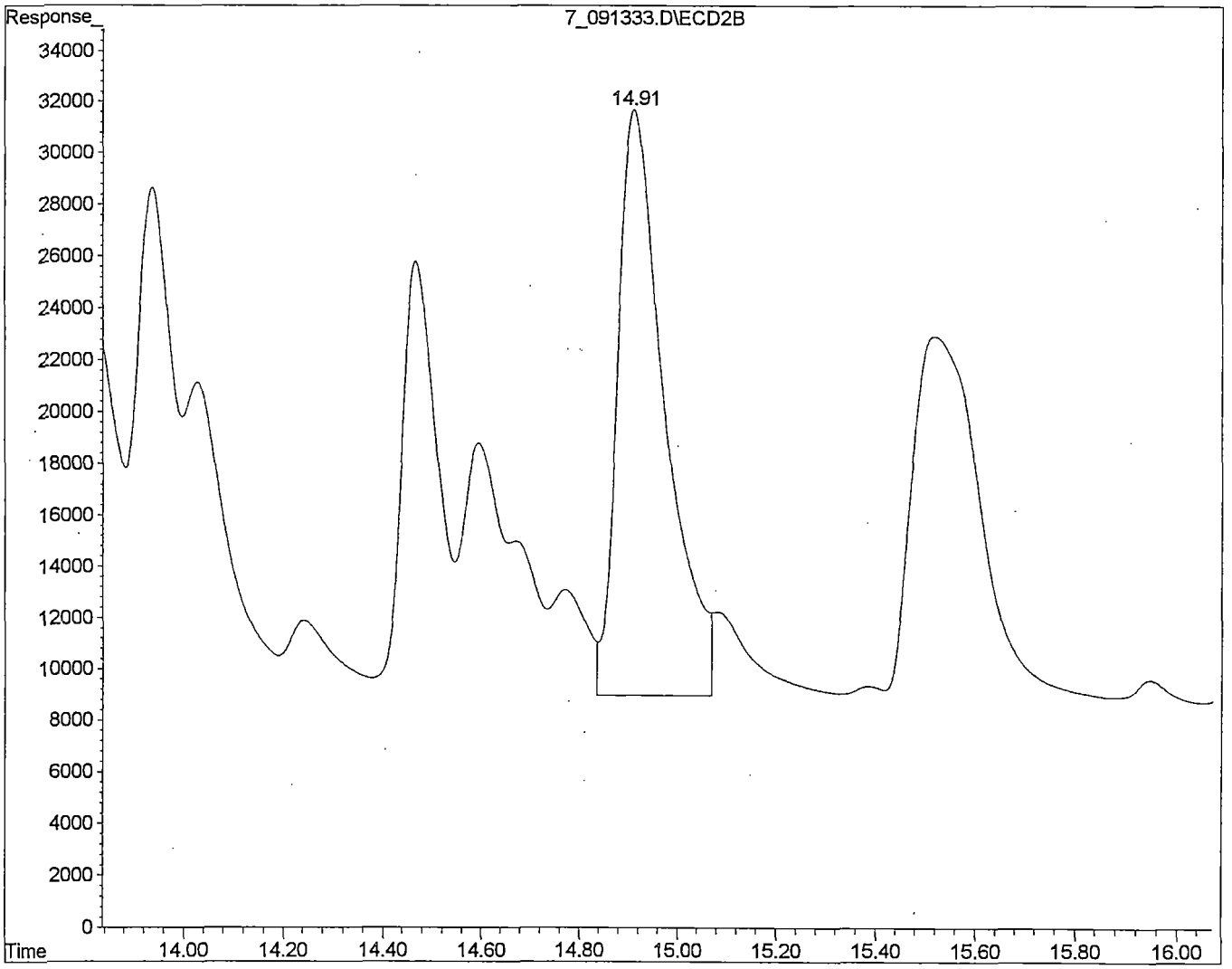
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	914116	1130873	22.5	21.8
22)	S DCB	16.90	17.42	455181	547959	21.5	22.7
	Target Compounds:						
2)	L1 Aroclor-1016	6.66	6.84	429818	542059	445.6	464.7
3)	L1 Aroclor-1016 {2}	7.89	8.23	583150	624454	443.9	444.0
4)	L1 Aroclor-1016 {3}	8.48	9.43	1174156	517432	431.2	443.2
5)	L1 Aroclor-1016 {4}	8.90	9.59	389878	911438	444.1	437.7
	L1 Aroclor-1016 {5}	9.29	10.00	501322	910519	443.8	432.8
	Sum Aroclor-1016			3078324	3505901	2208.7	2222.4
	Average Aroclor-1016					441.735	444.485
17)	L7 Aroclor-1260	12.24	12.66	988176	1449980	429.6	429.3
18)	L7 Aroclor-1260 {2}	12.84	13.10	1645685	1438538	433.2	449.3
19)	L7 Aroclor-1260 {3}	13.42	13.41	1290860	1266663	439.9	437.7
20)	L7 Aroclor-1260 {4}	14.07	14.47	566732	826152	432.7	454.7
21)	L7 Aroclor-1260 {5}	14.63	14.91	1373634	1518174	448.0	479.5m
	Sum Aroclor-1260			5865088	6499507	2183.3	2250.5
	Average Aroclor-1260					436.661	450.090

09-14-01

(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_13_01\7_091333.D
Date Acquired: 13 Sep 2001 22:32
Inst: HP_07 Operator ID: SA
Name: AR1660L373
Misc: 5-128-7
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 6:55 2001 Quant Results File: XPCBI12.RES



Aroclor-1260 {5} #2 14.91min area: 1518174 m

Integration Time Range: 14.84 - 15.07

F:\HPCHEM\HP\7\DATA\09_13_01\7_091333.D
Report generated: Fri Sep 14 07:10:56 2001

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

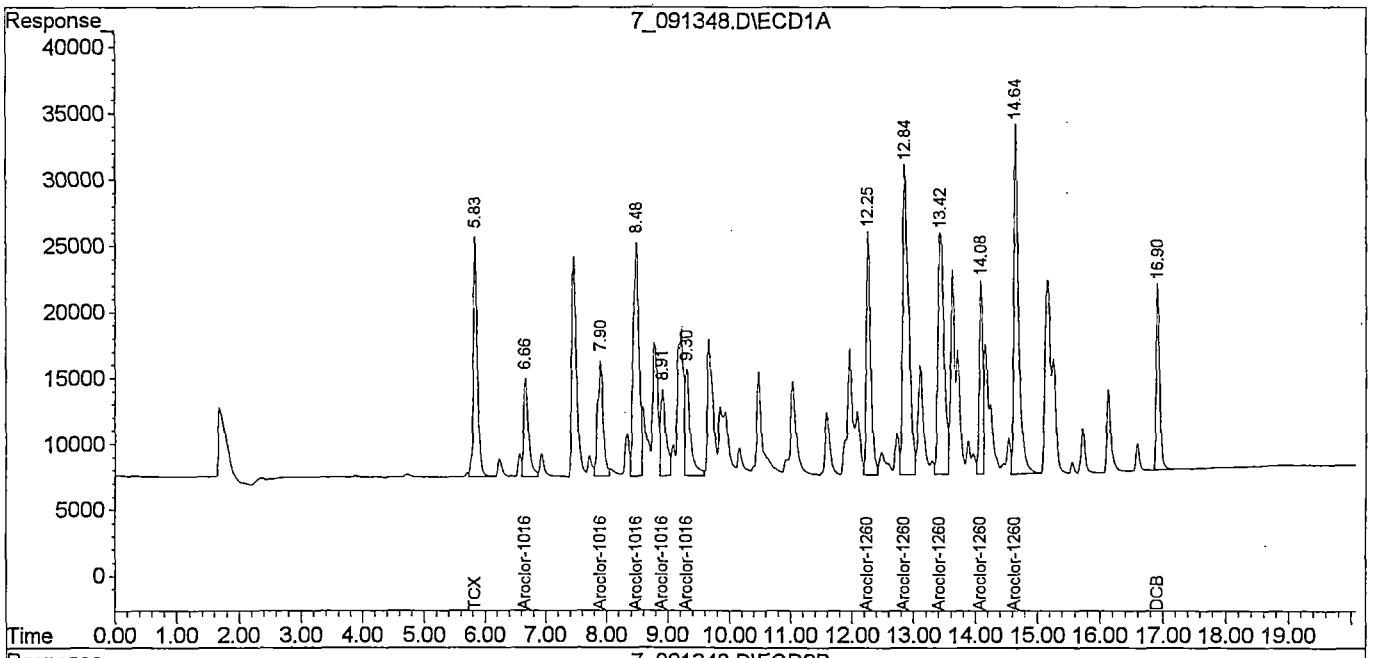
7_091348.D XPCBI12.M Fri Sep 14 06:59:36 2001

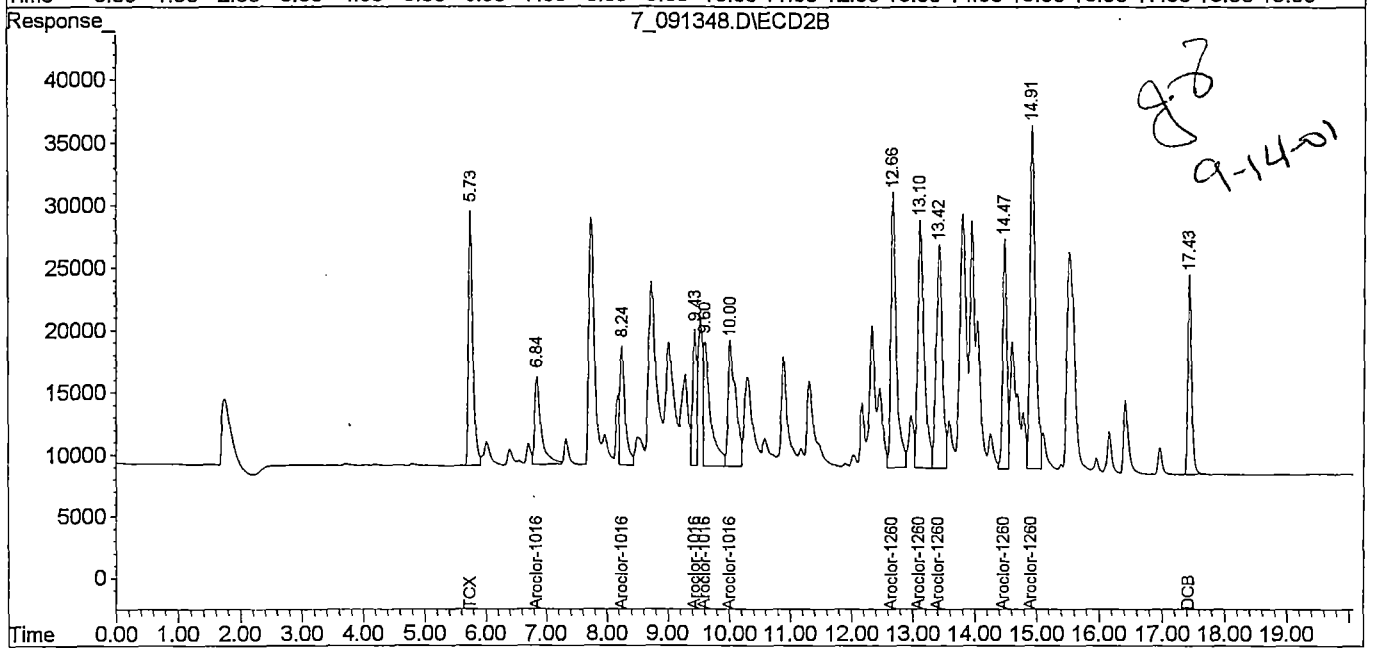
Chromatographic Report

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
	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

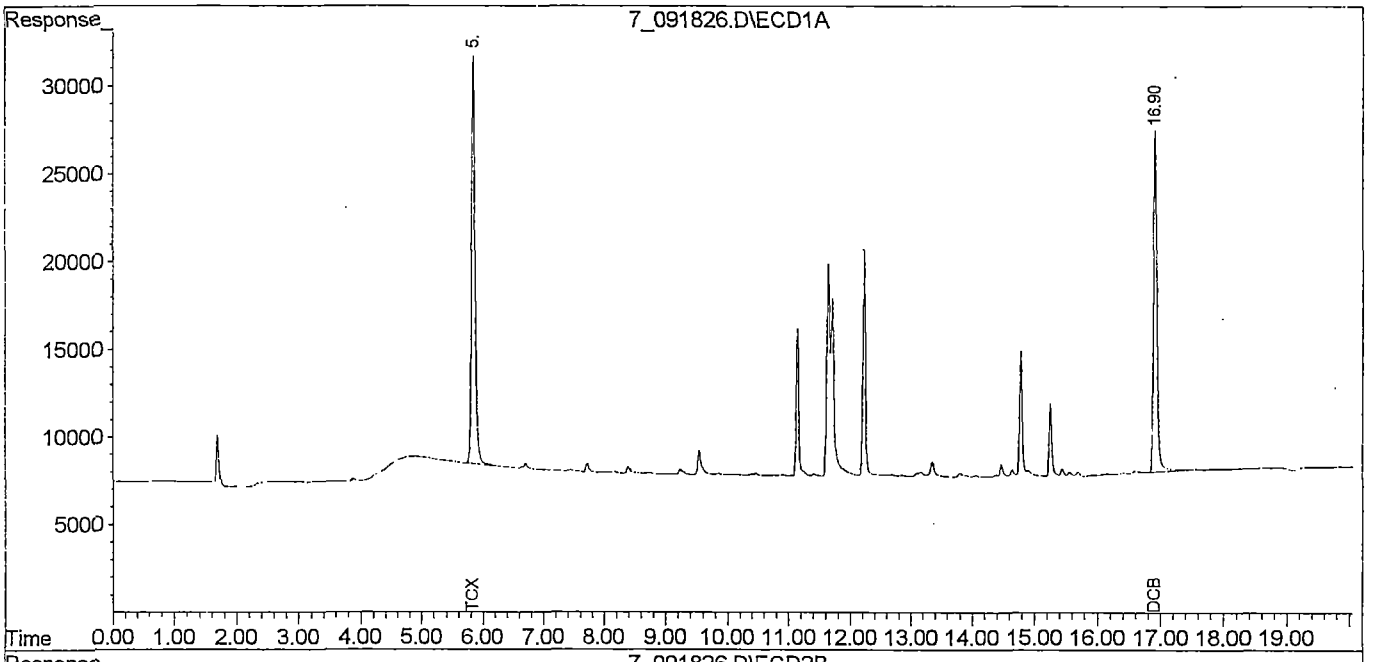
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

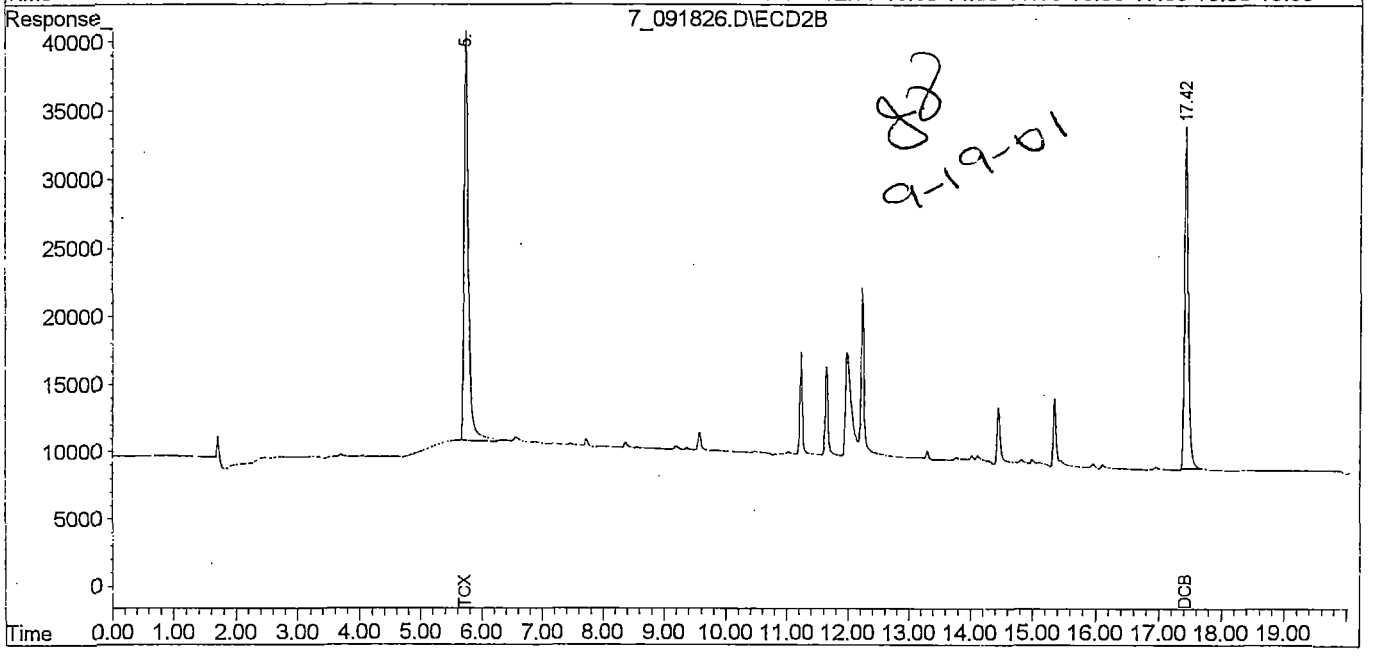
Chromatographic Report

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

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

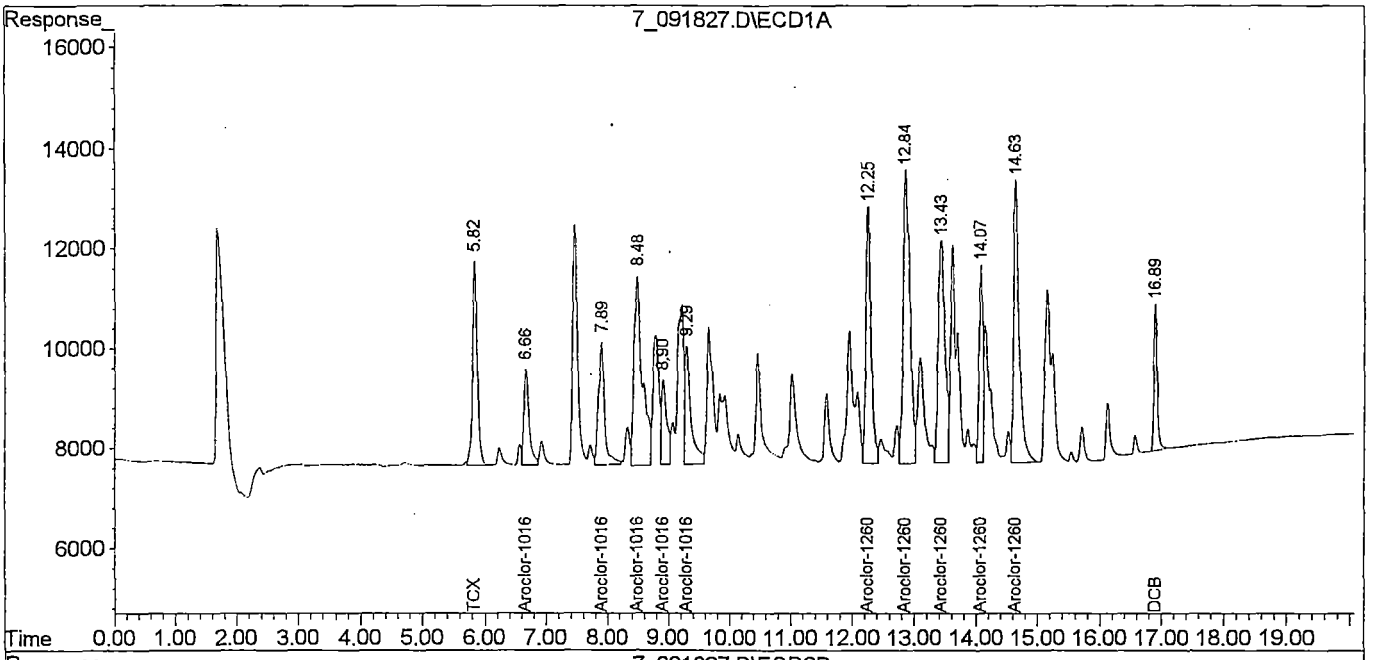
XPCBI18.M Wed Sep 19 08:12:04 2001

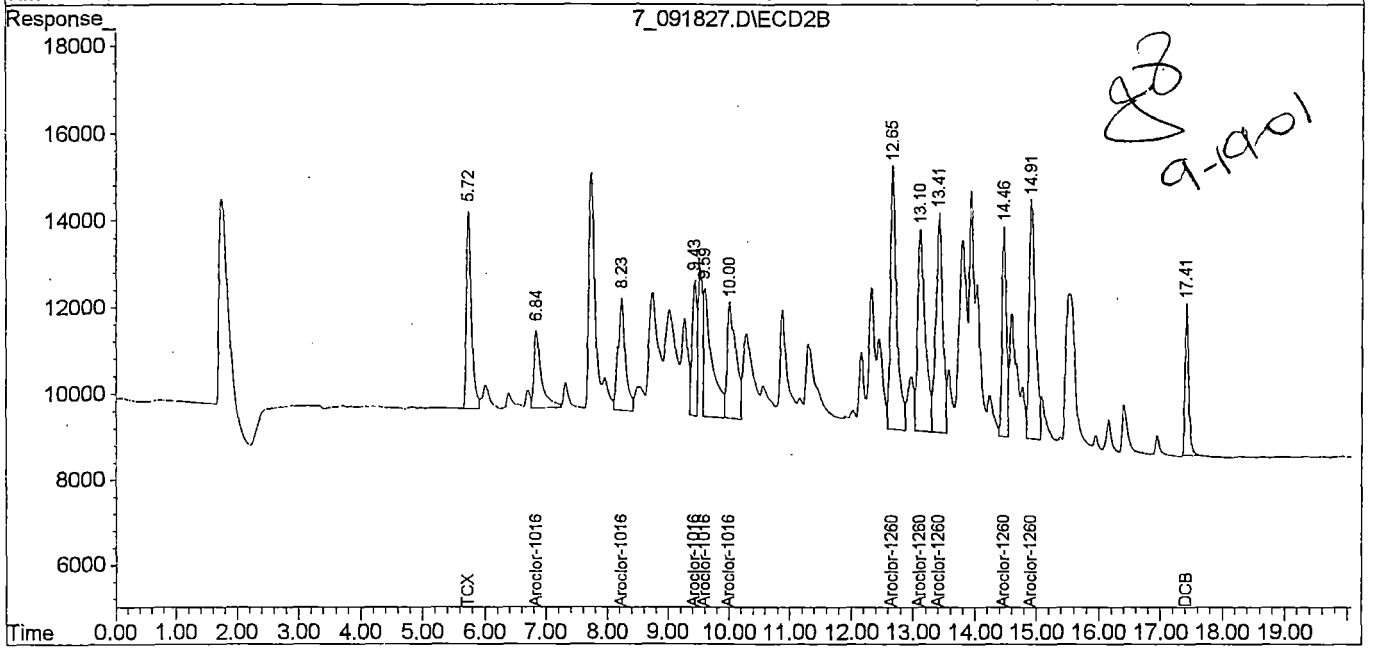
Chromatographic Report

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

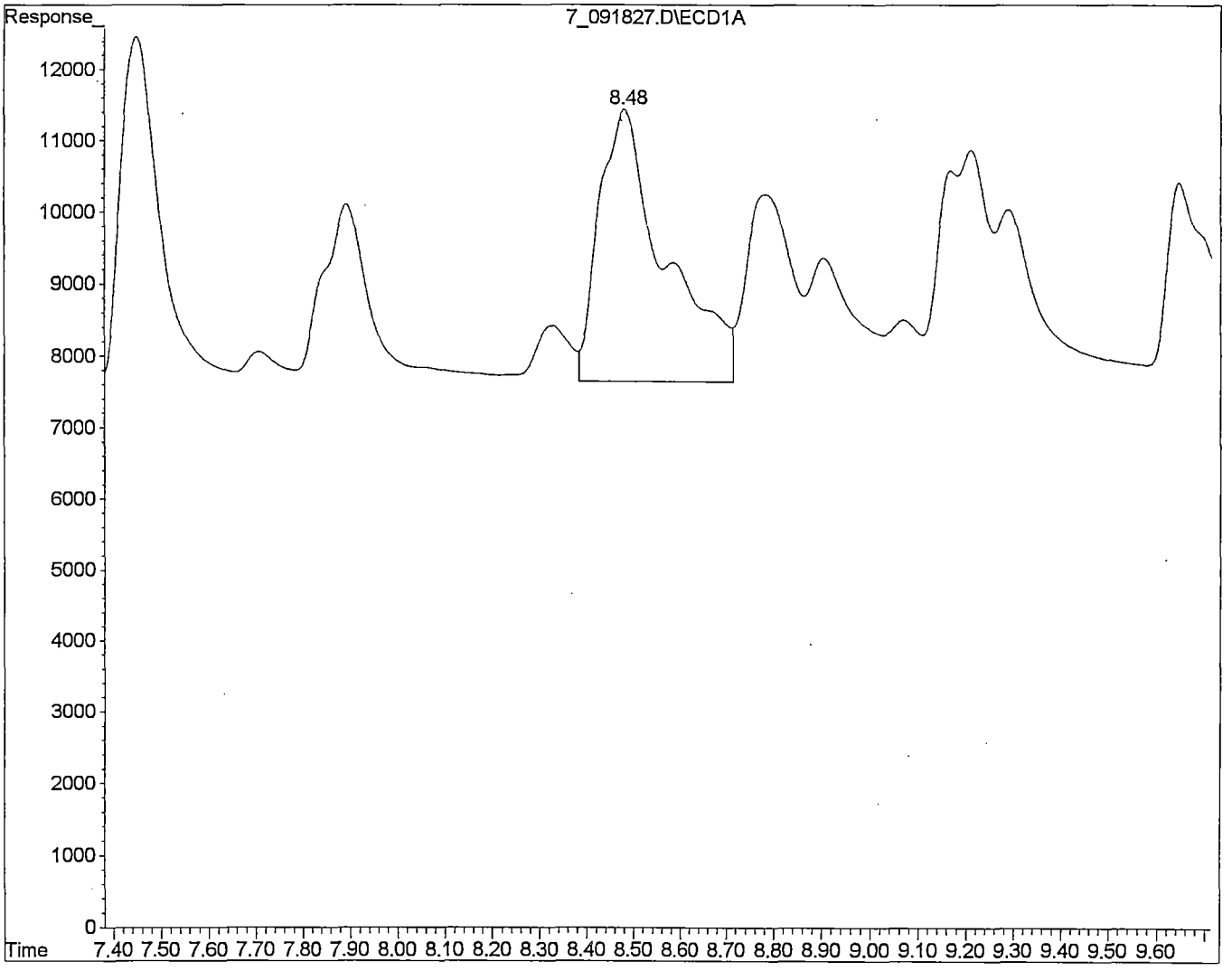
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.72	211686	259223	5.133	4.582	
22)	S DCB	16.90	17.41	107547	145119	4.456	5.208	
	Target Compounds:							
2)	L1 Aroclor-1016	6.66	6.84	116276	149488	117.1	124.0	
3)	L1 Aroclor-1016 {2}	7.89	8.23	169551	226205	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

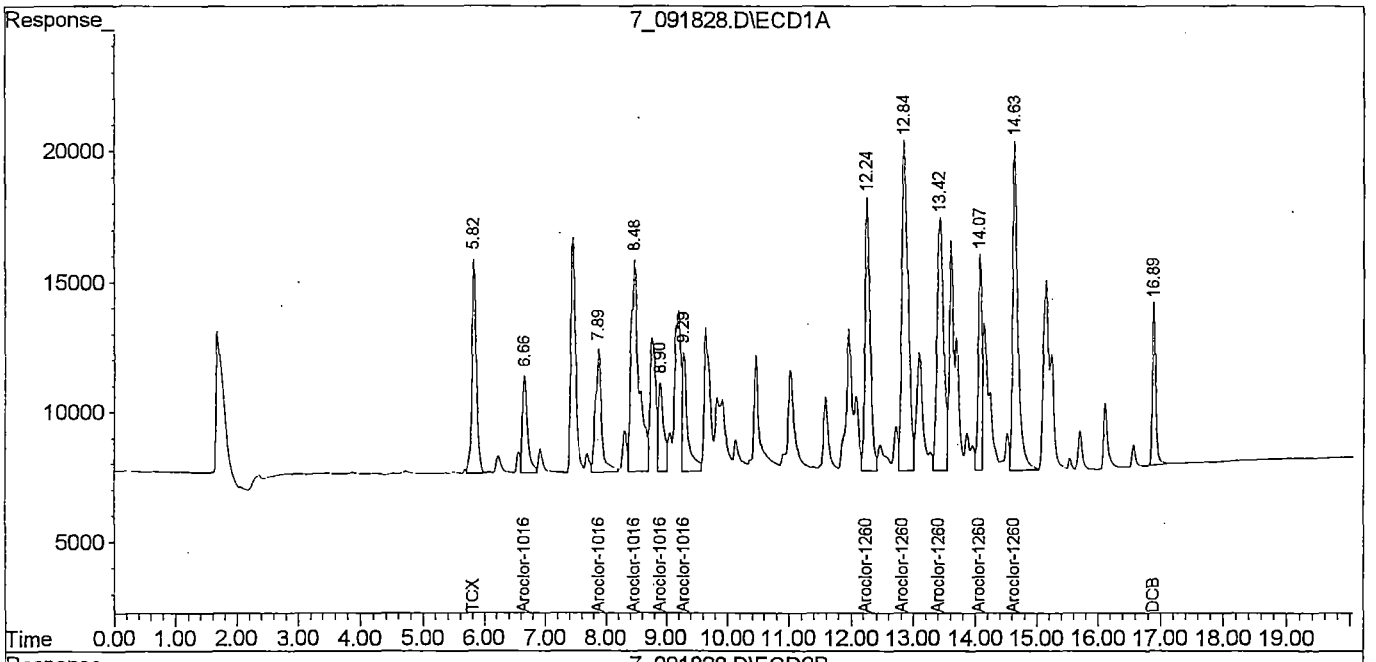
F:\HPCHEM\HP\7\DATA\09_19_01\7_091827.D
Report generated: Wed Sep 19 08:55:52 2001

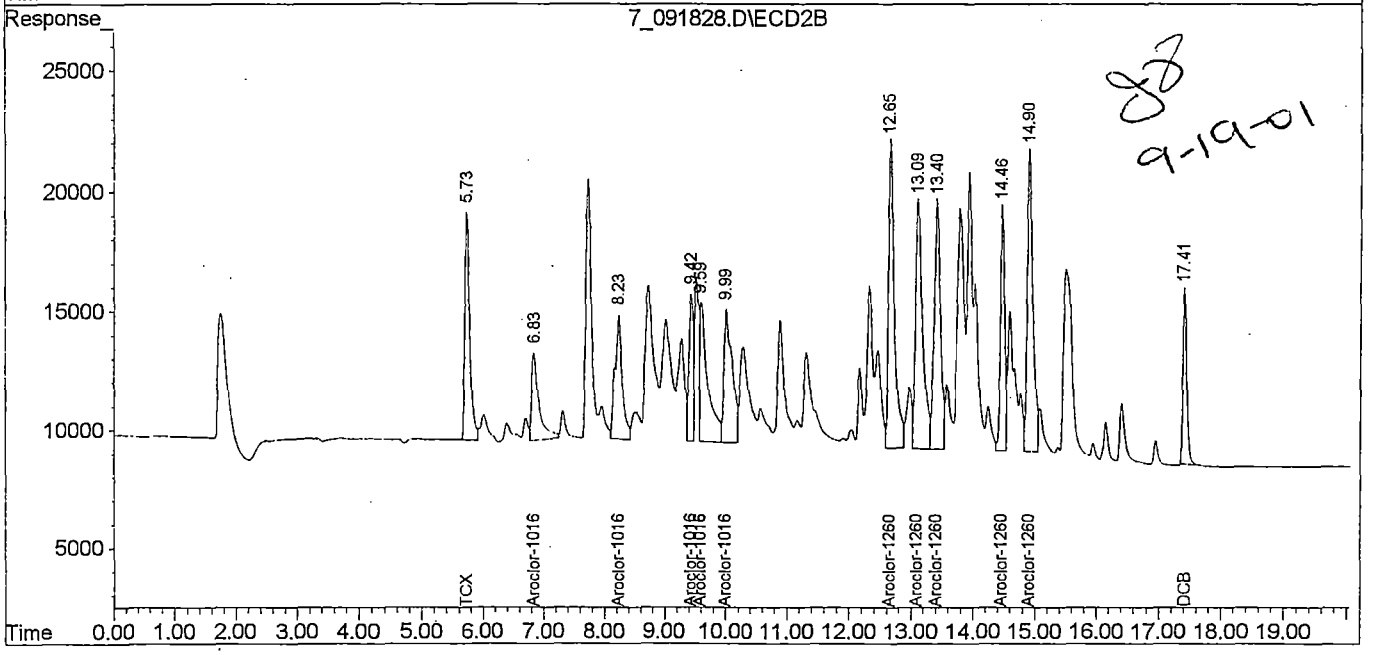
Chromatographic Report

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





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

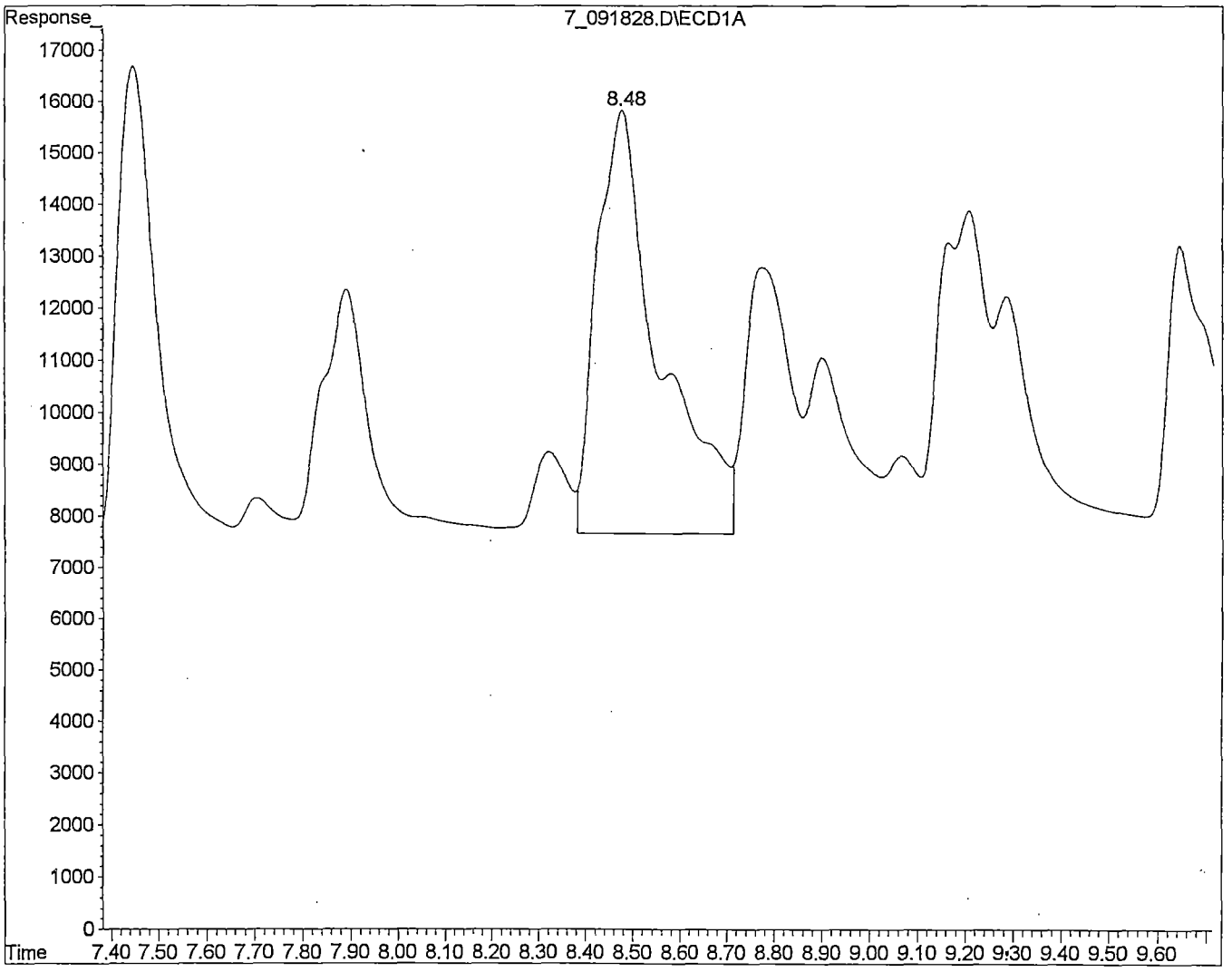
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.73	418306	538640	10.1	9.520	
22)	S DCB	16.89	17.41	231911	307065	9.609	11.0	
	Target Compounds:							
2)	L1 Aroclor-1016	6.66	6.84	224243	310535	225.9	257.5	
3)	L1 Aroclor-1016 {2}	7.89	8.23	328712	439598	231.8	292.7	#
4)	L1 Aroclor-1016 {3}	8.48	9.42	748631	290126	261.3m	235.5	
)	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	

49.17.1

(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_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



CS 9-19-1

Aroclor-1016 {3} 8.48min area: 748631 m

Integration Time Range: 8.38 - 8.71

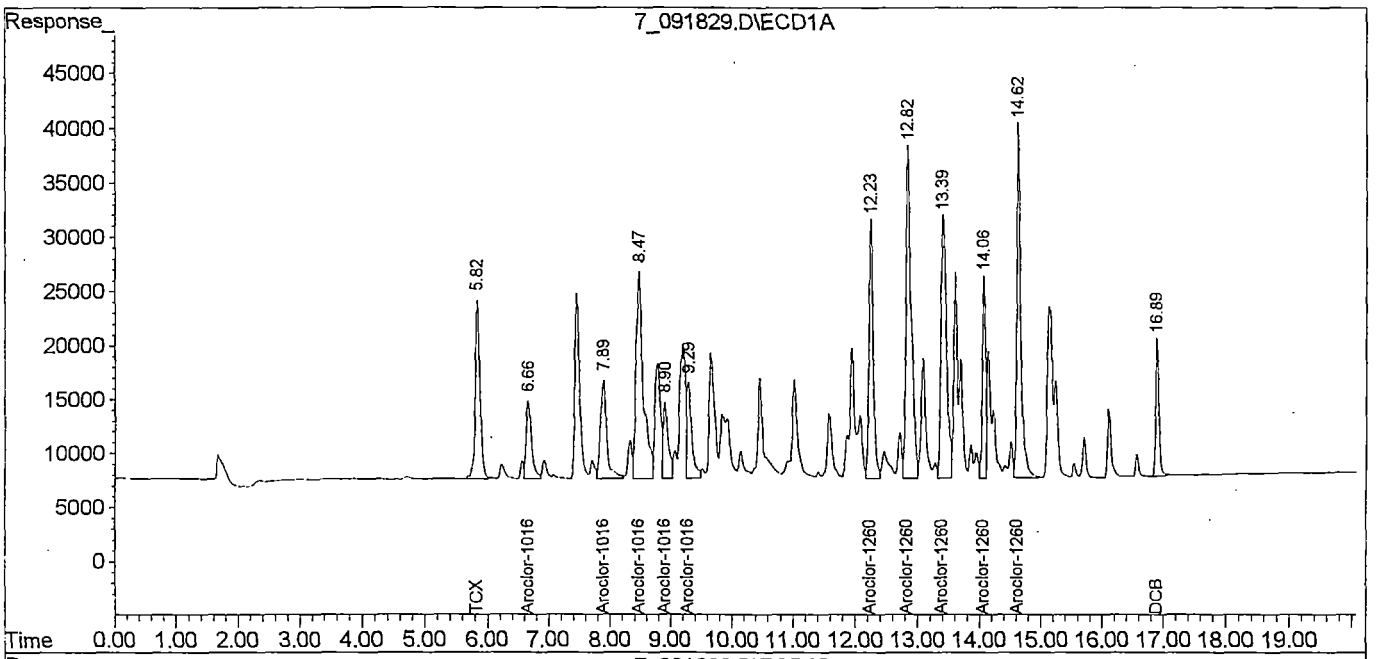
F:\HPCHEM\HP\7\DATA\09_19_01\7_091828.D
Report generated: Wed Sep 19 08:55:54 2001

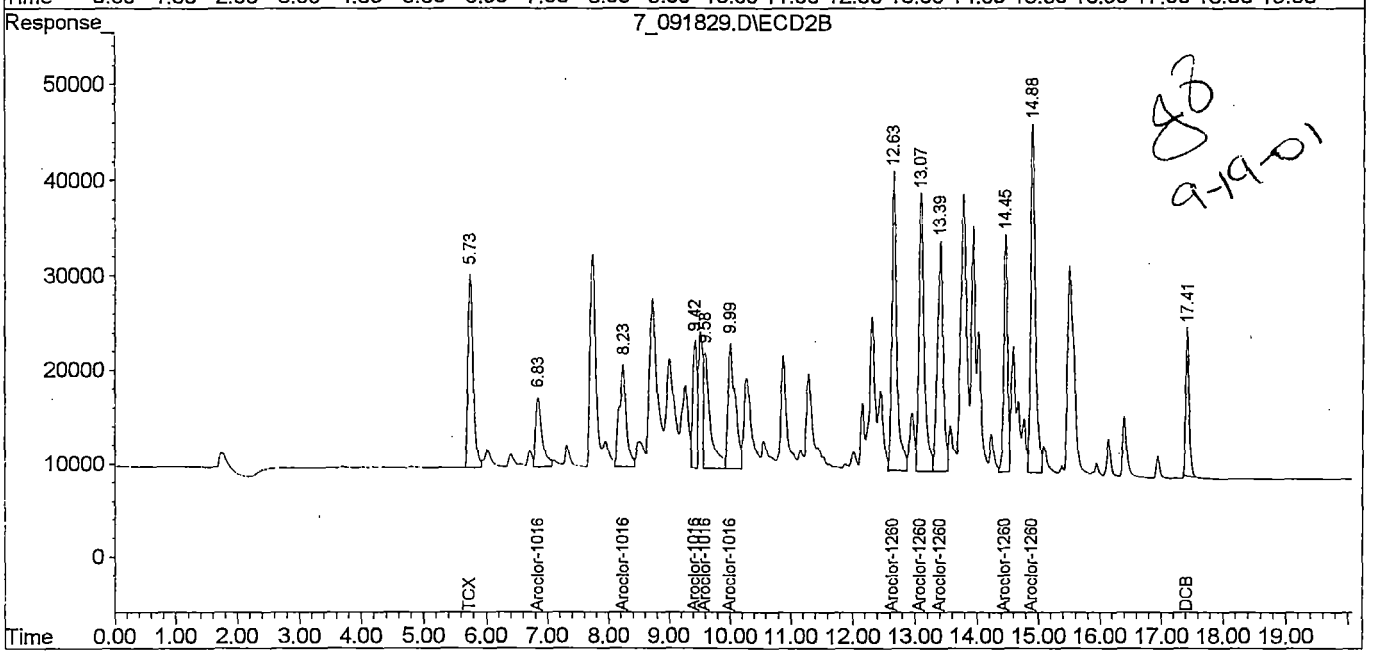
Chromatographic Report

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





8
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	
)	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	

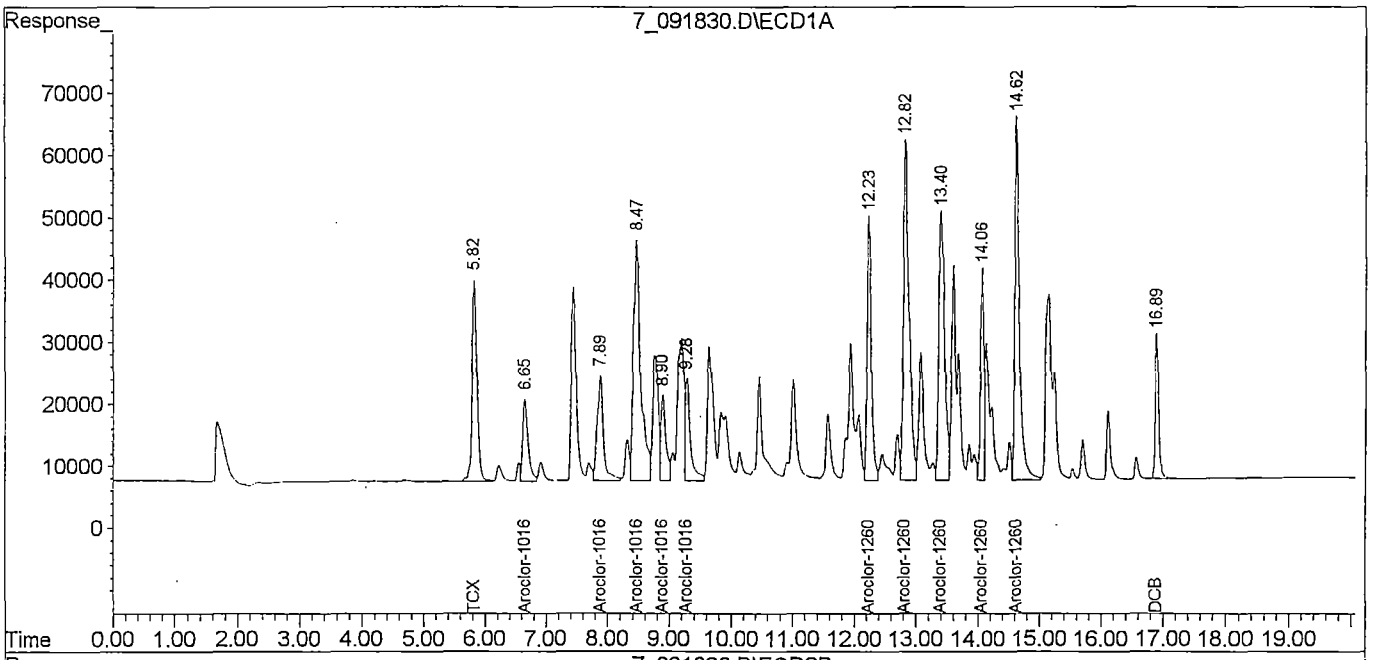
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

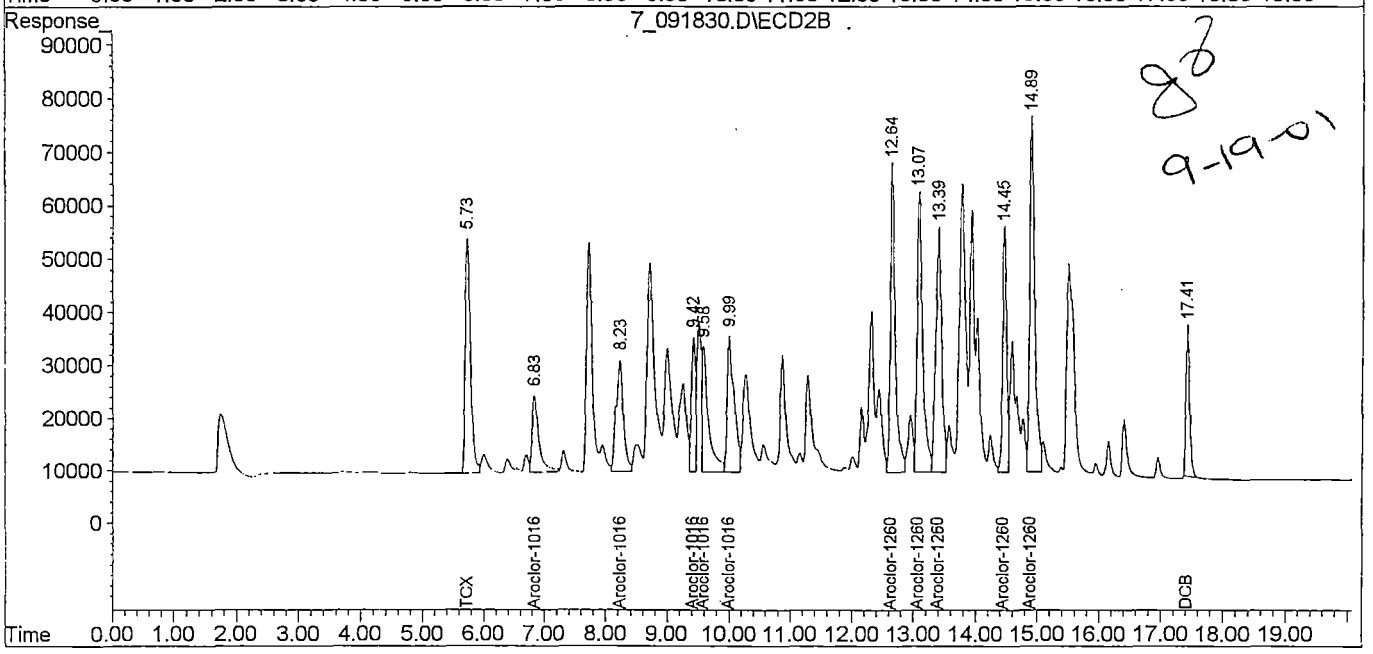
Chromatographic Report

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





8 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	
)	L1 Aroclor-1016 {4}	8.90	9.58	818379	1794984	873.8	818.5	
o)	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	

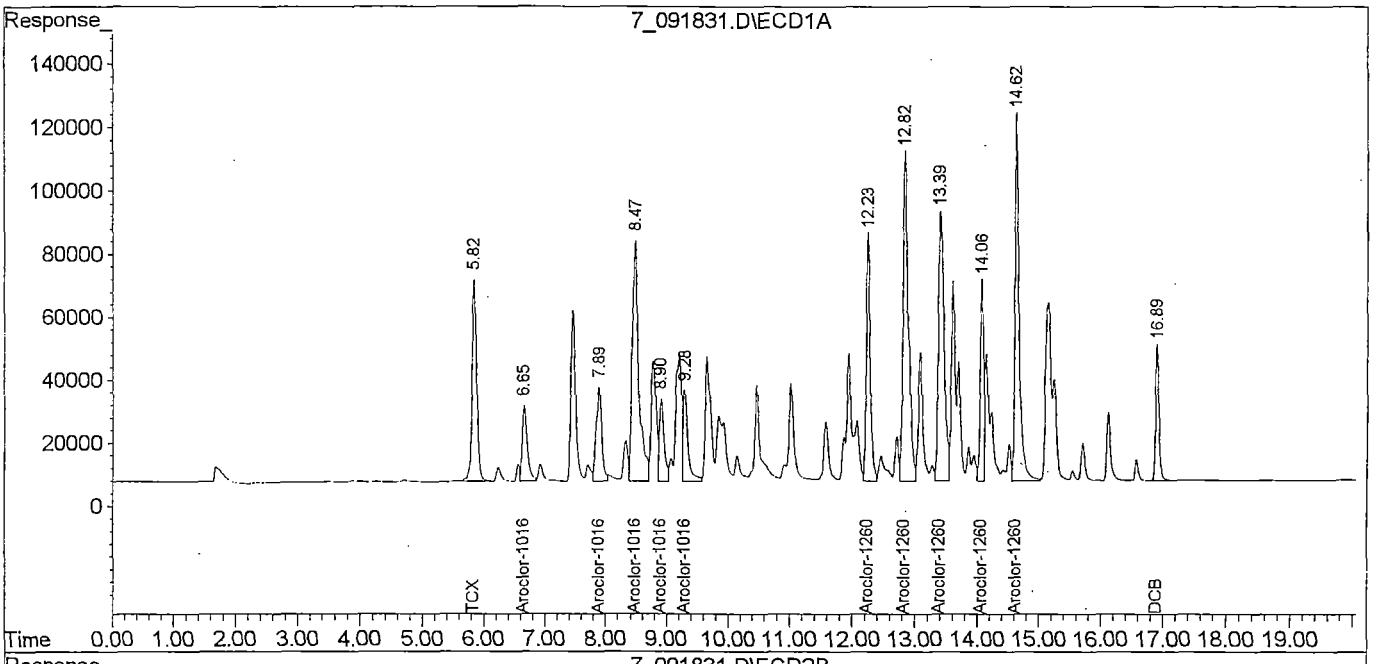
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

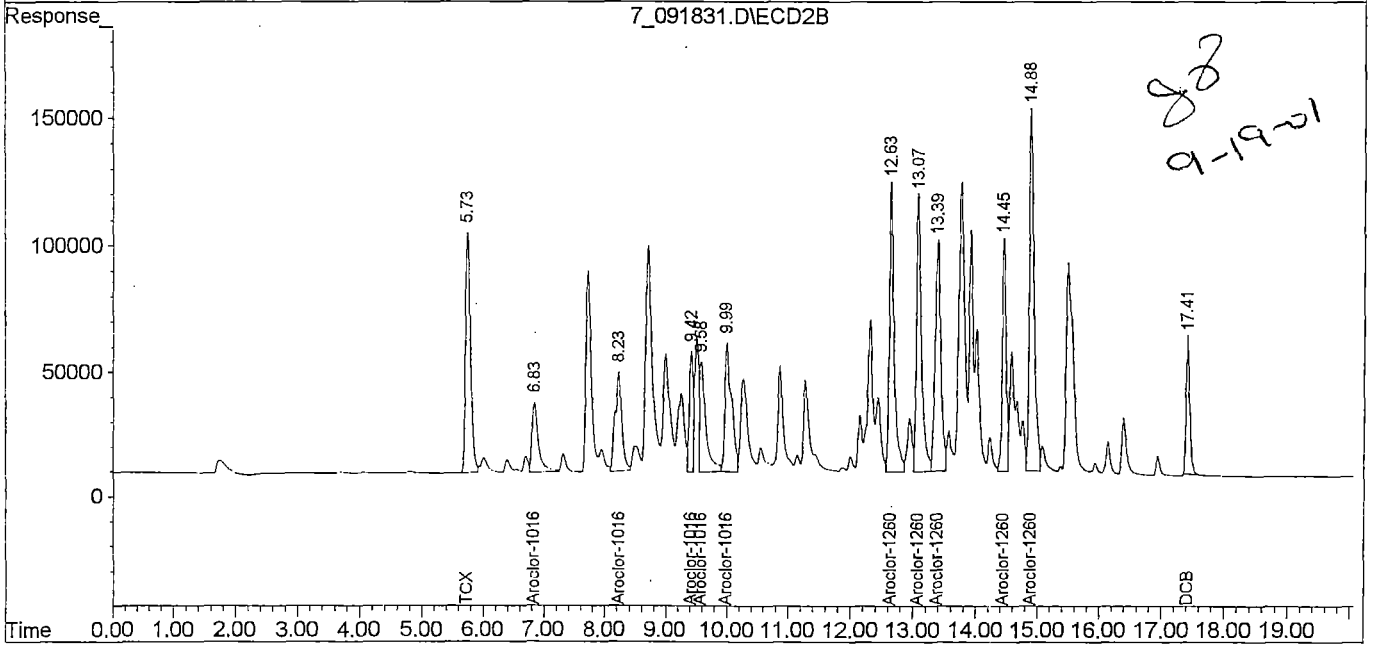
Chromatographic Report

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





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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

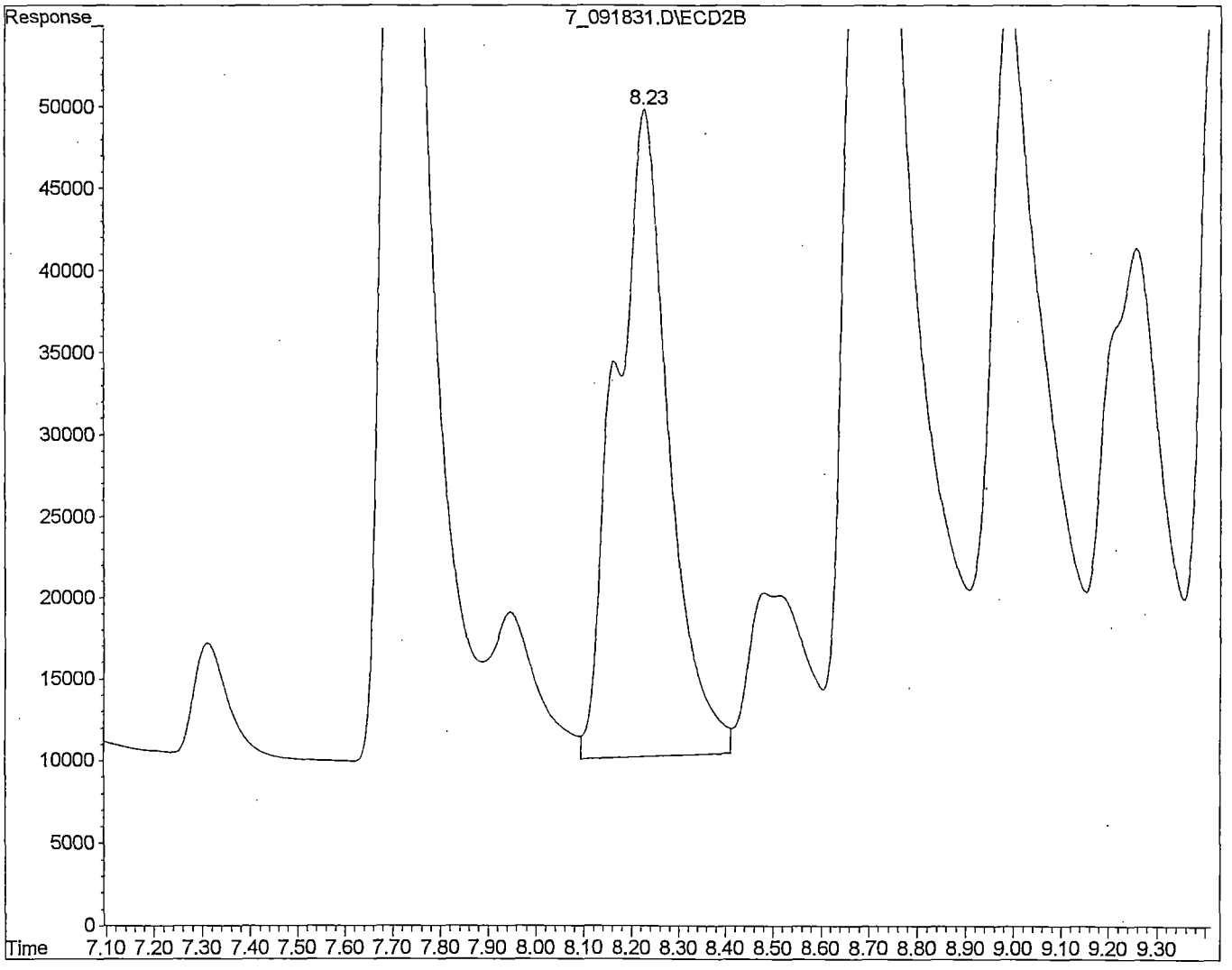
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	3437428	5510959	83.4	97.4
22)	S DCB	16.89	17.41	1645099	2200909	68.2	79.0
	Target Compounds:						
2)	L1 Aroclor-1016	6.65	6.83	1397382	2016766	1407.7 E	1672.4
3)	L1 Aroclor-1016 {2}	7.89	8.23	1954664	3065195	1378.2 E	2040.8m #
4)	L1 Aroclor-1016 {3}	8.47	9.42	5810520	2051446	2027.8	1665.5
)	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

SA 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_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



09-19-01

Aroclor-1016 {2} #2 8.23min area: 3065195 m

Integration Time Range: 8.10 - 8.41

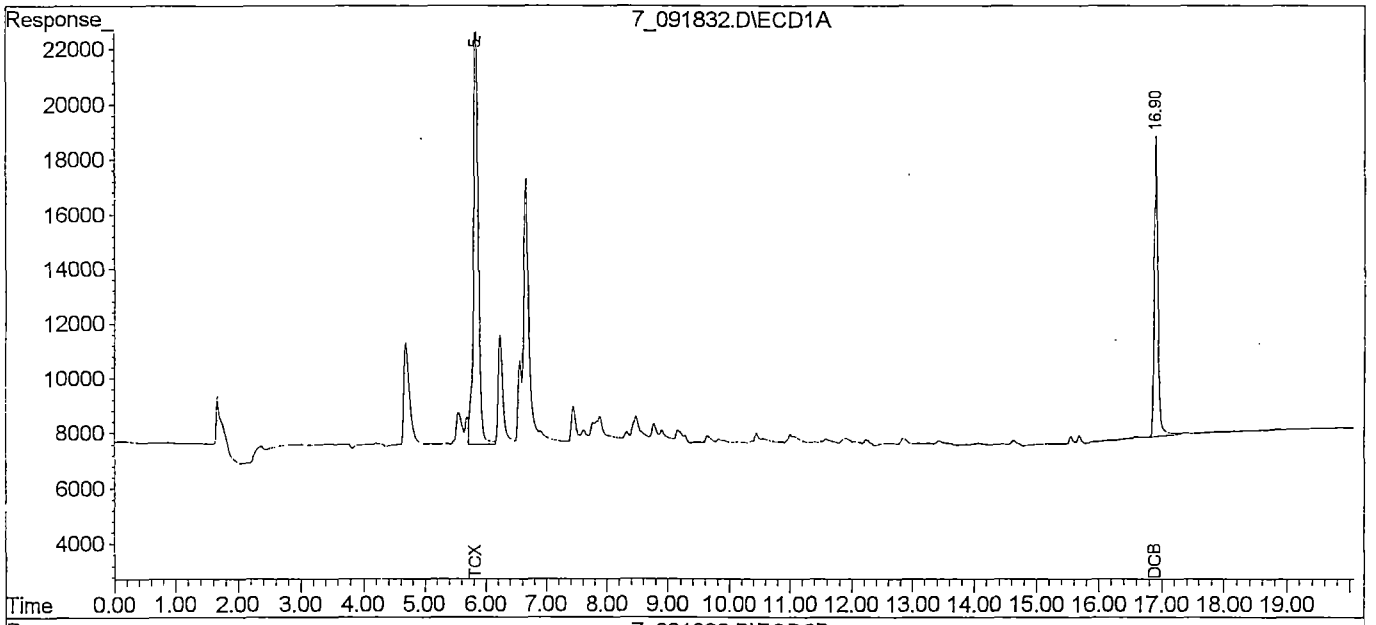
F:\HPCHEM\HP\7\DATA\09_19_01\7_091831.D
Report generated: Wed Sep 19 08:55:59 2001

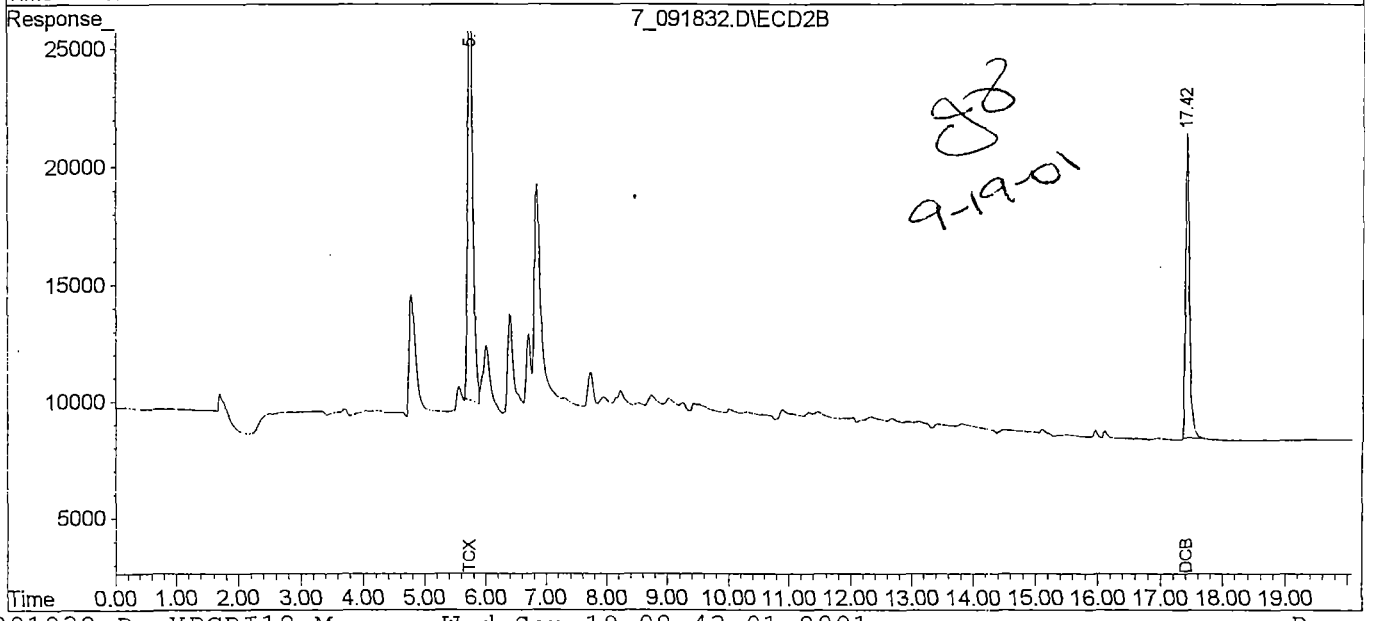
Chromatographic Report

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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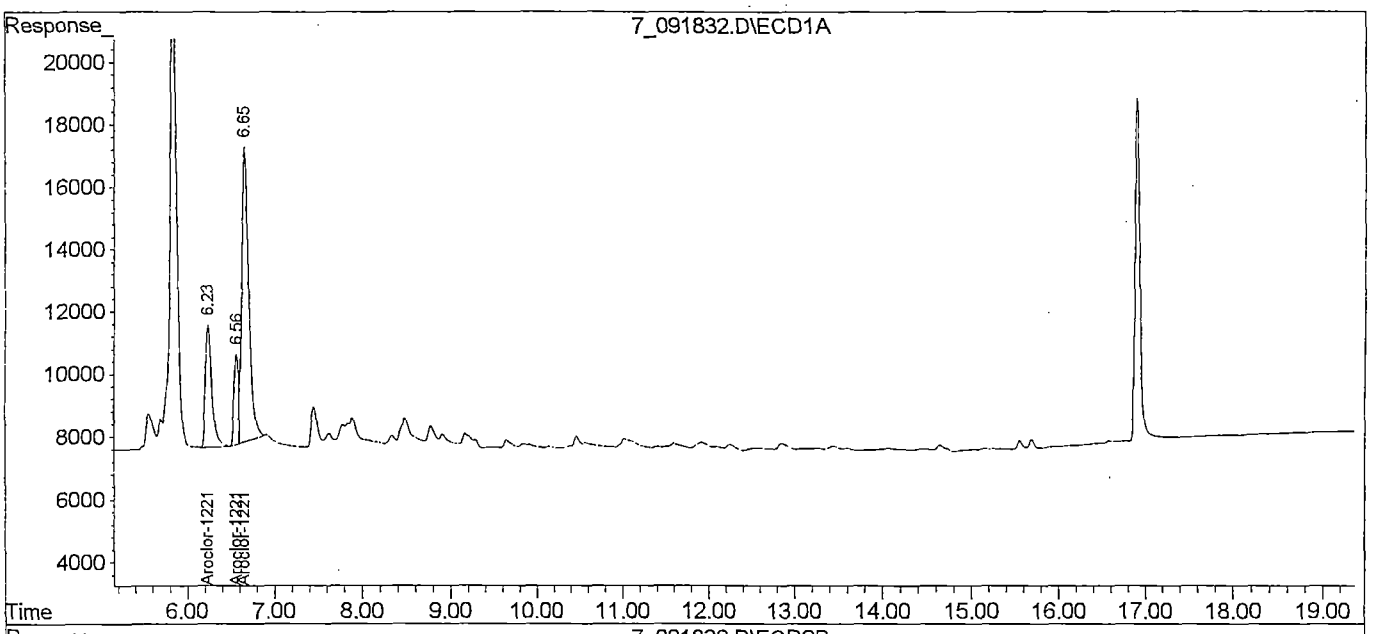
9-19-01

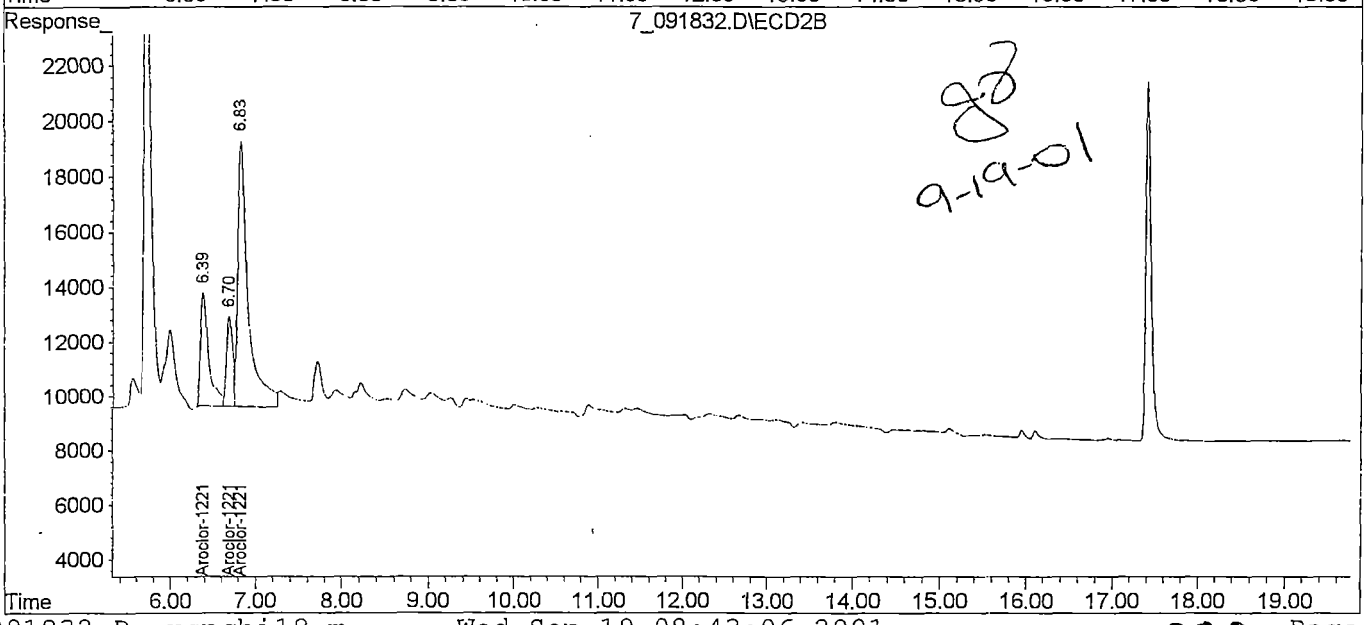
Chromatographic Report

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





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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

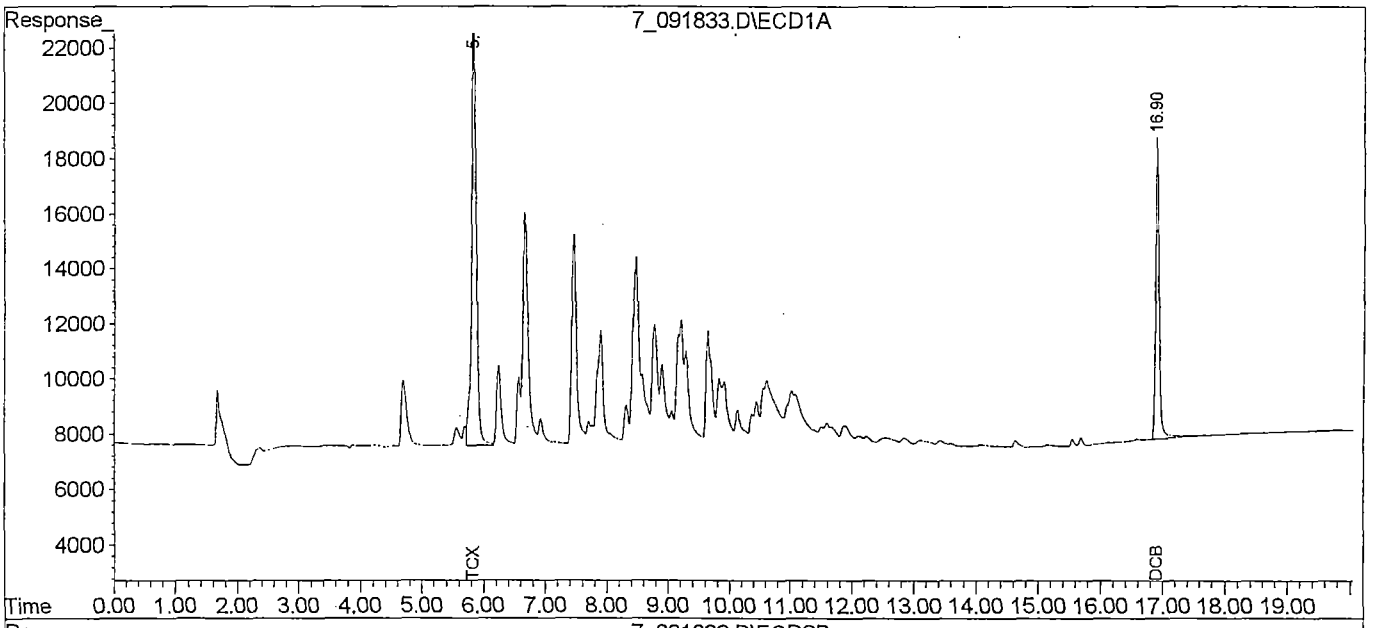
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

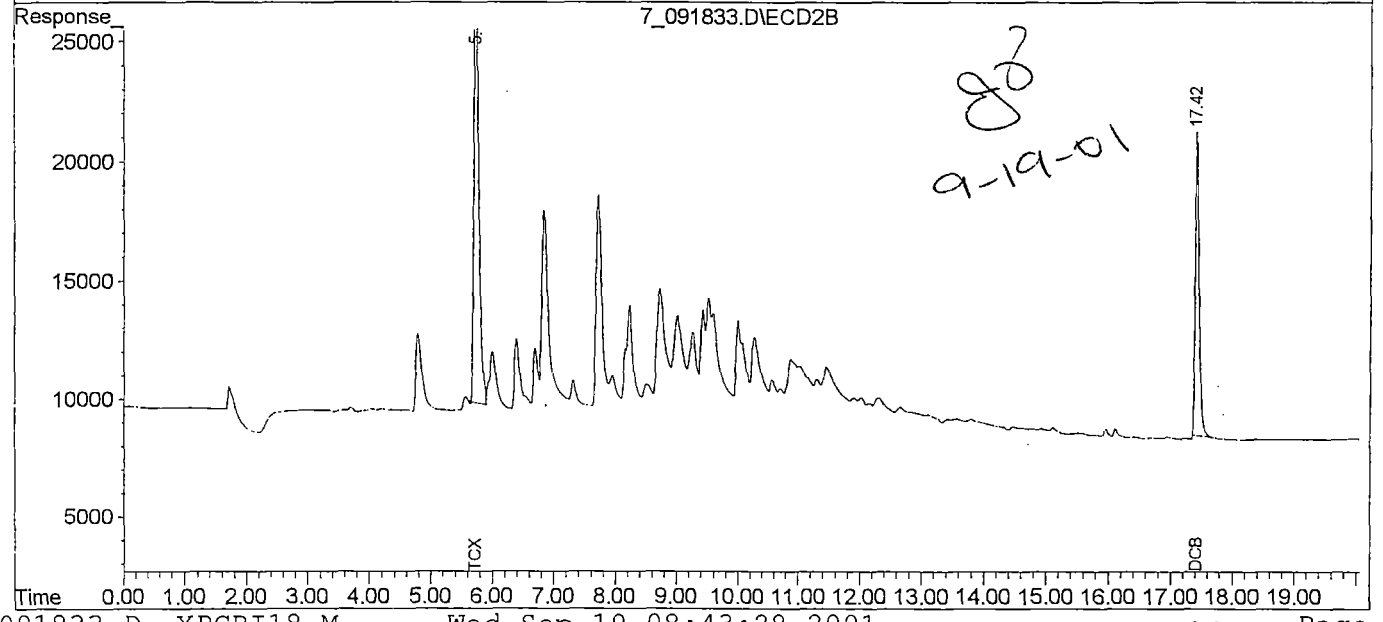
Chromatographic Report

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





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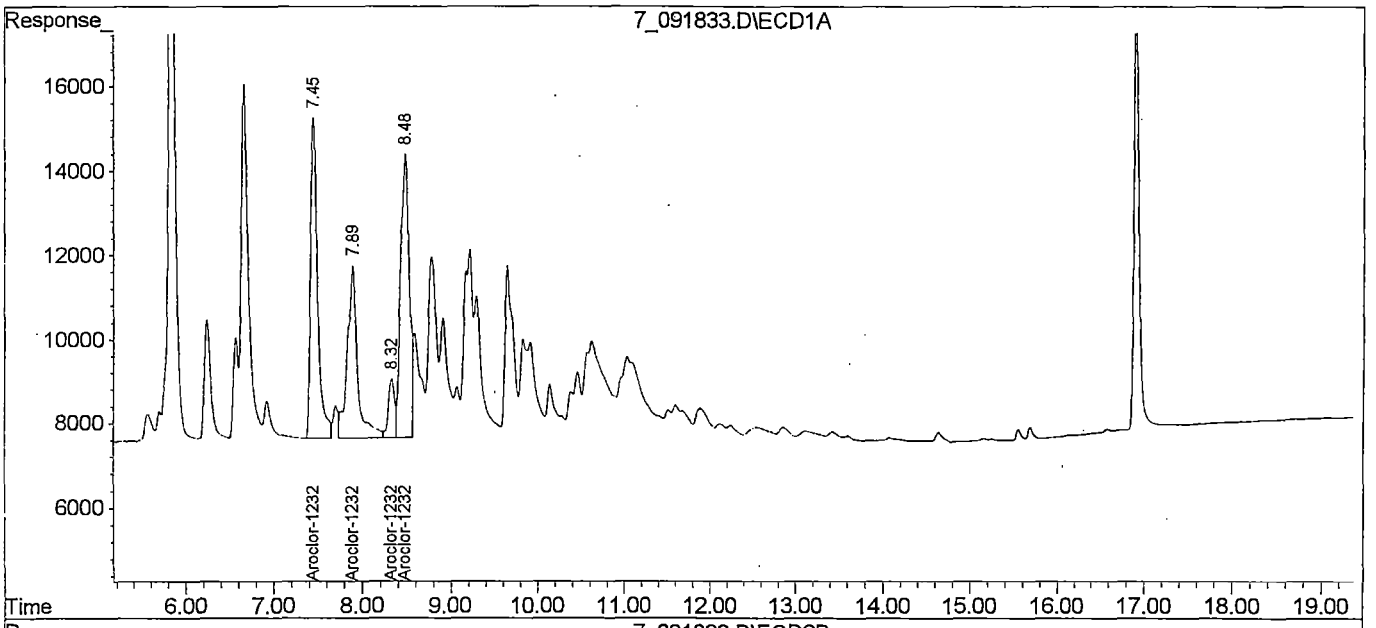
9-19-01

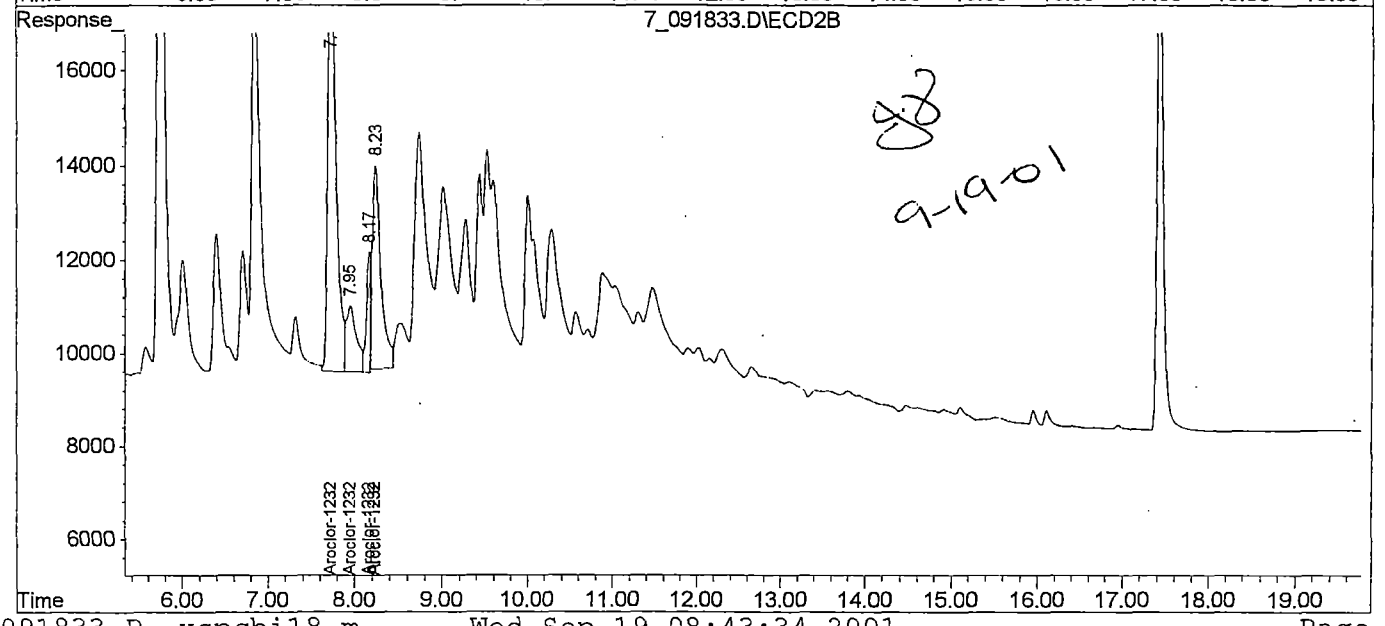
Chromatographic Report

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

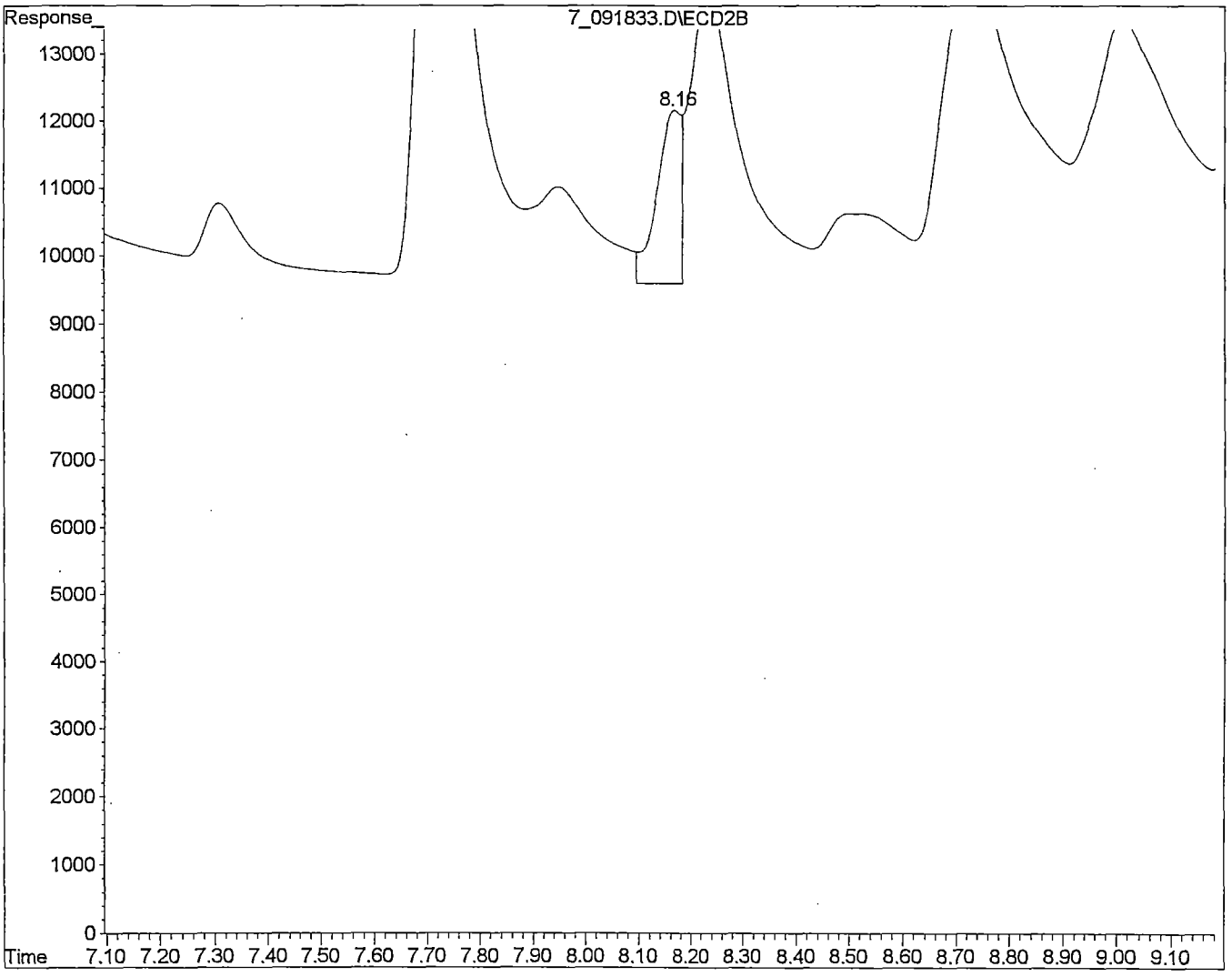
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.83	5.73	818302	998866	19.8	17.7
22)	S DCB	16.90	17.42	435358	549636	18.0	19.7
	Target Compounds:						
	Multi-Component Compounds:						
5)	L3 Aroclor-1232	7.45	7.72	435477	608231	449.4	456.4
6)	L3 Aroclor-1232 {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

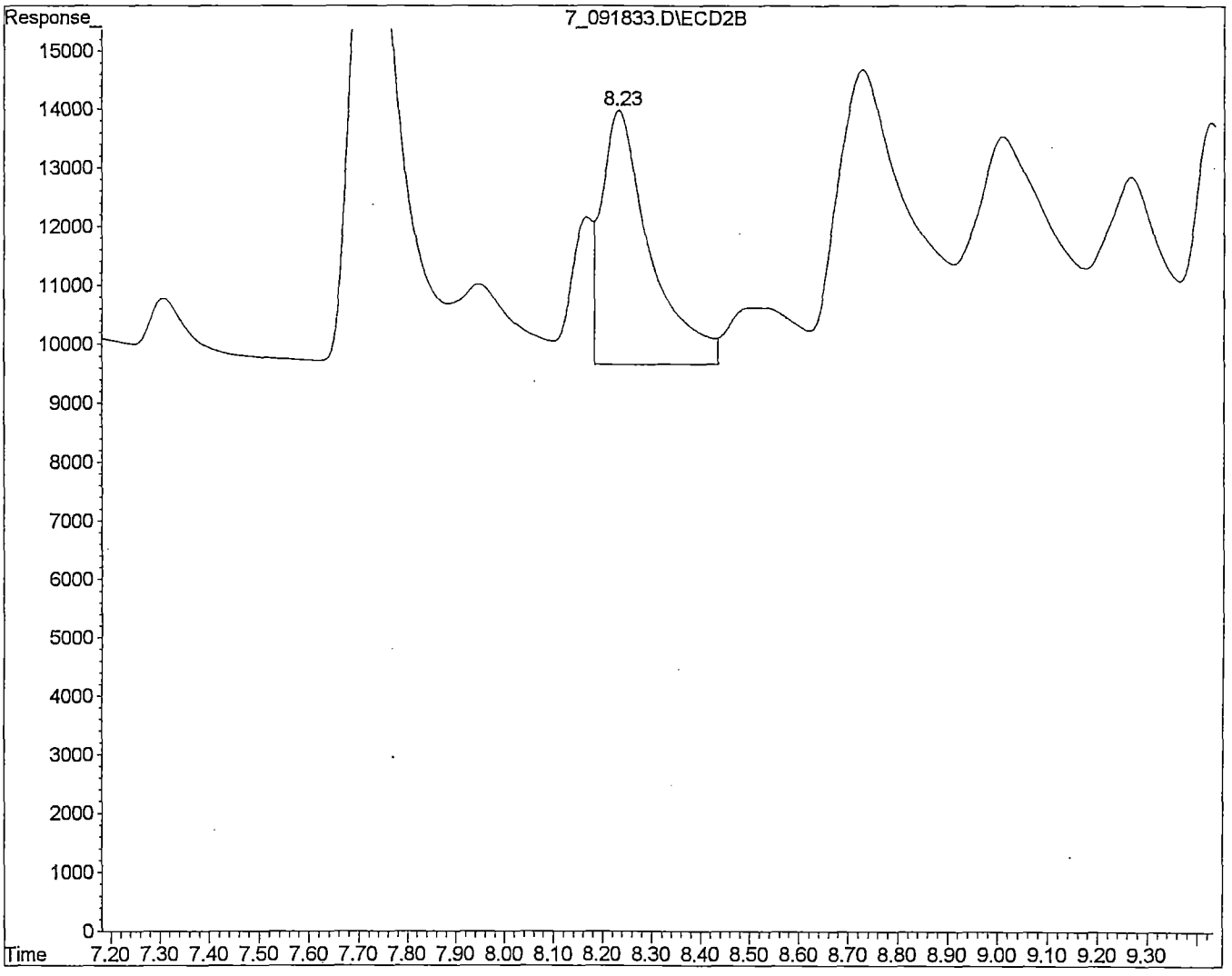
Aroclor-1232 {3} #2 8.16min area: 83178 m

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



CD 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
3) 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

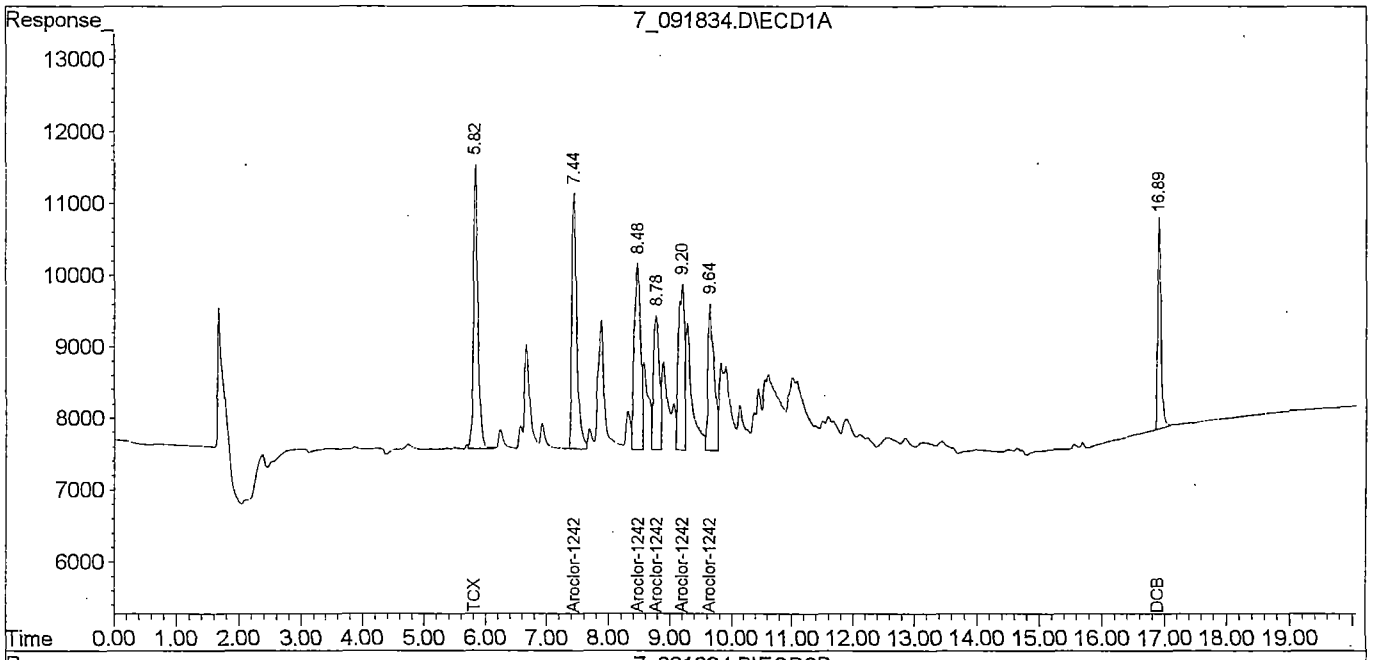
XPCBI18.M Wed Sep 19 08:24:43 2001

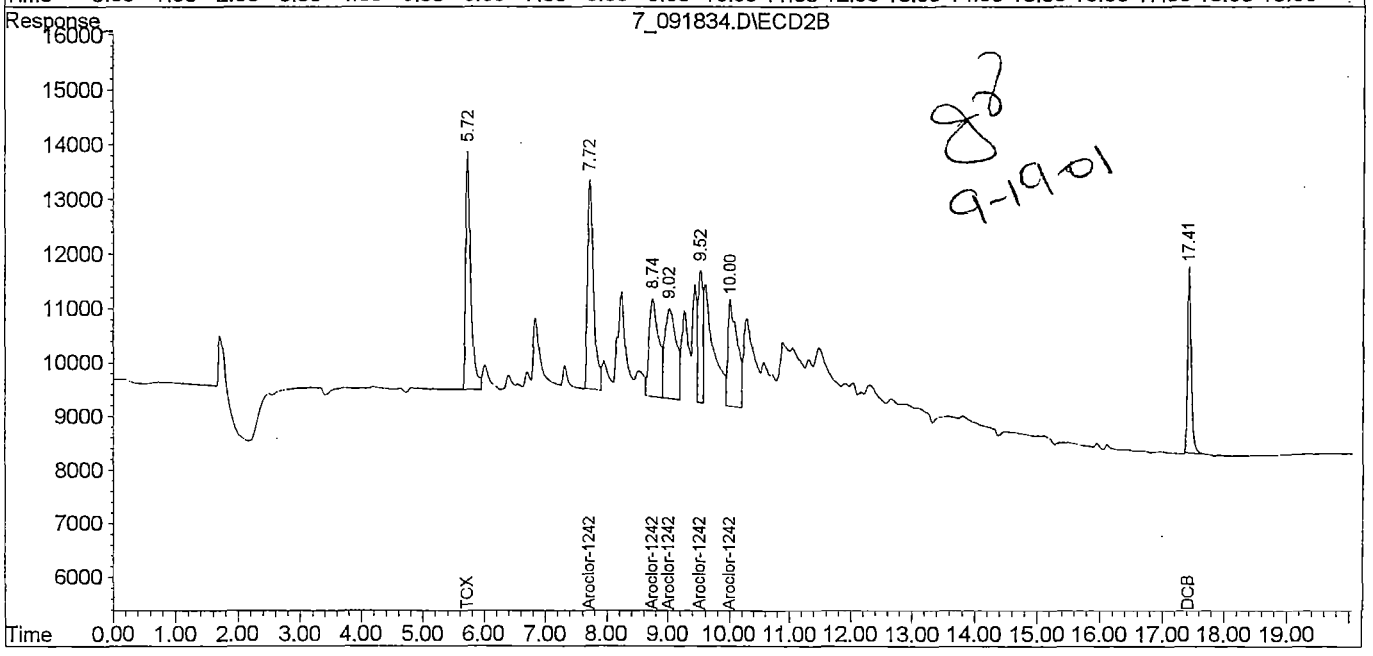
Chromatographic Report

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





gd
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
)	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

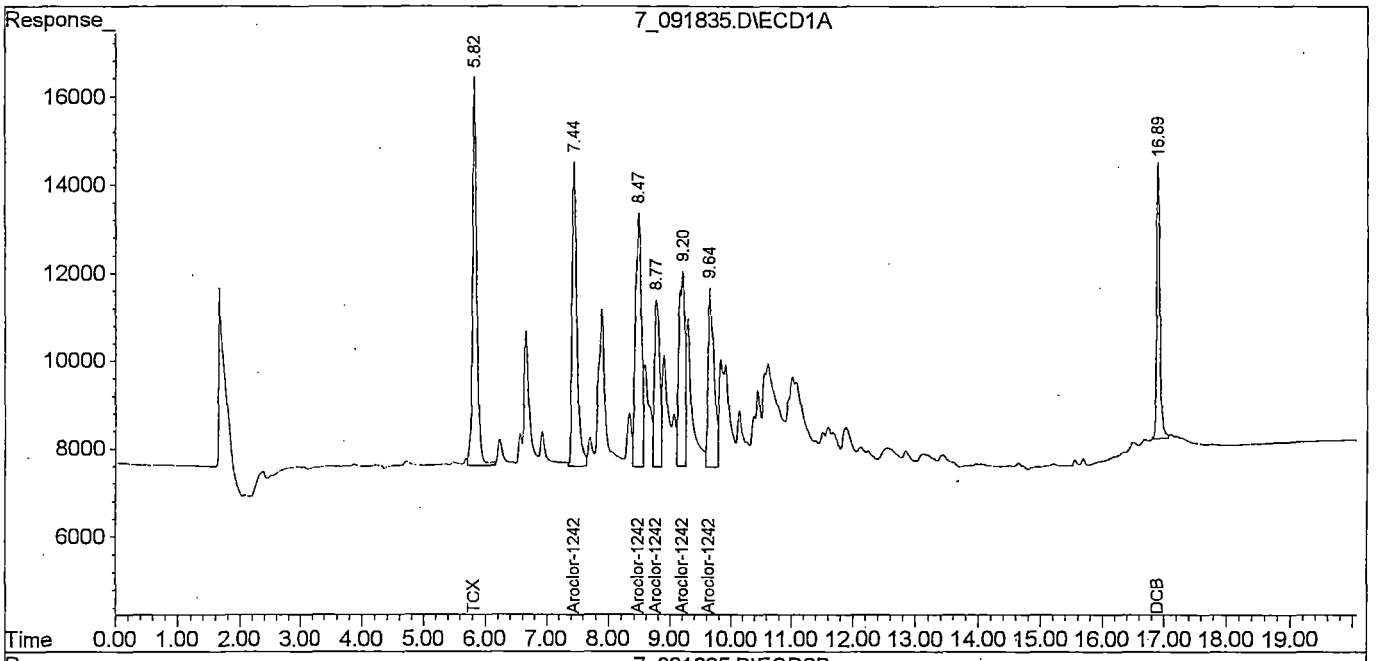
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

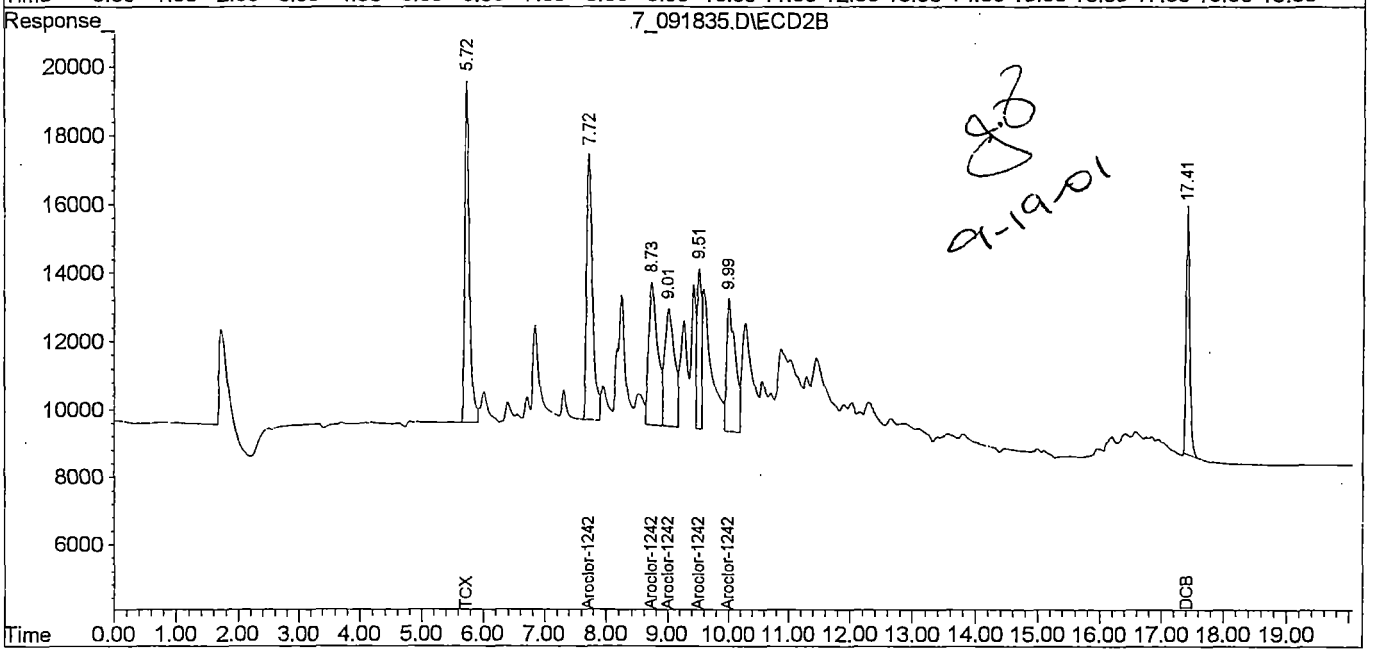
Chromatographic Report

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

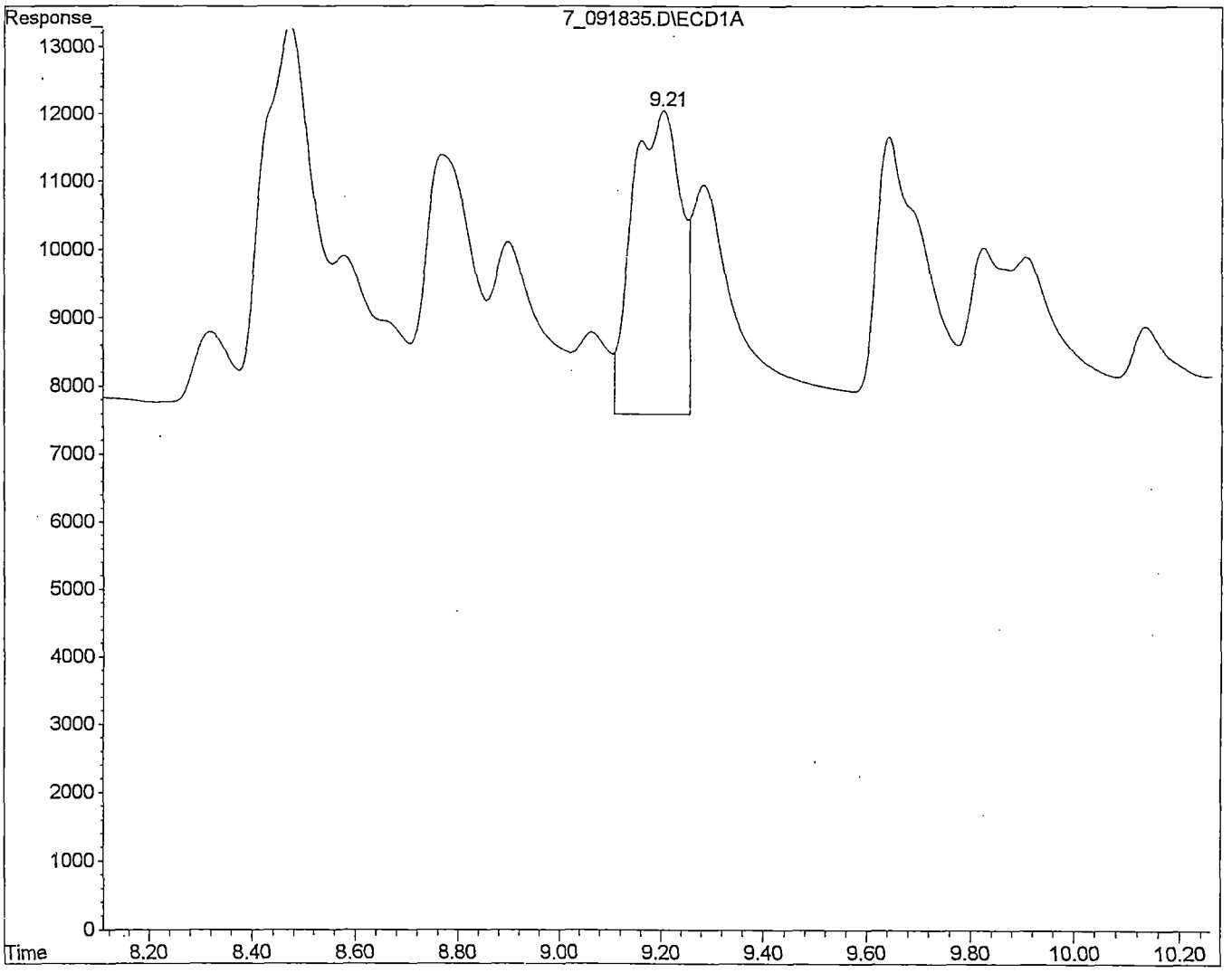
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.72	422568	524638	10.2	9.273
22)	S DCB	16.89	17.41	232642	287953	9.639	10.3
	Target Compounds:						
7)	L4 Aroclor-1242	7.44	7.72	391089	512691	217.7	205.3
8)	L4 Aroclor-1242 {2}	8.47	8.73	393819	432219	192.1	188.4
9)	L4 Aroclor-1242 {3}	8.77	9.01	240826	397286	210.7	218.1
)	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

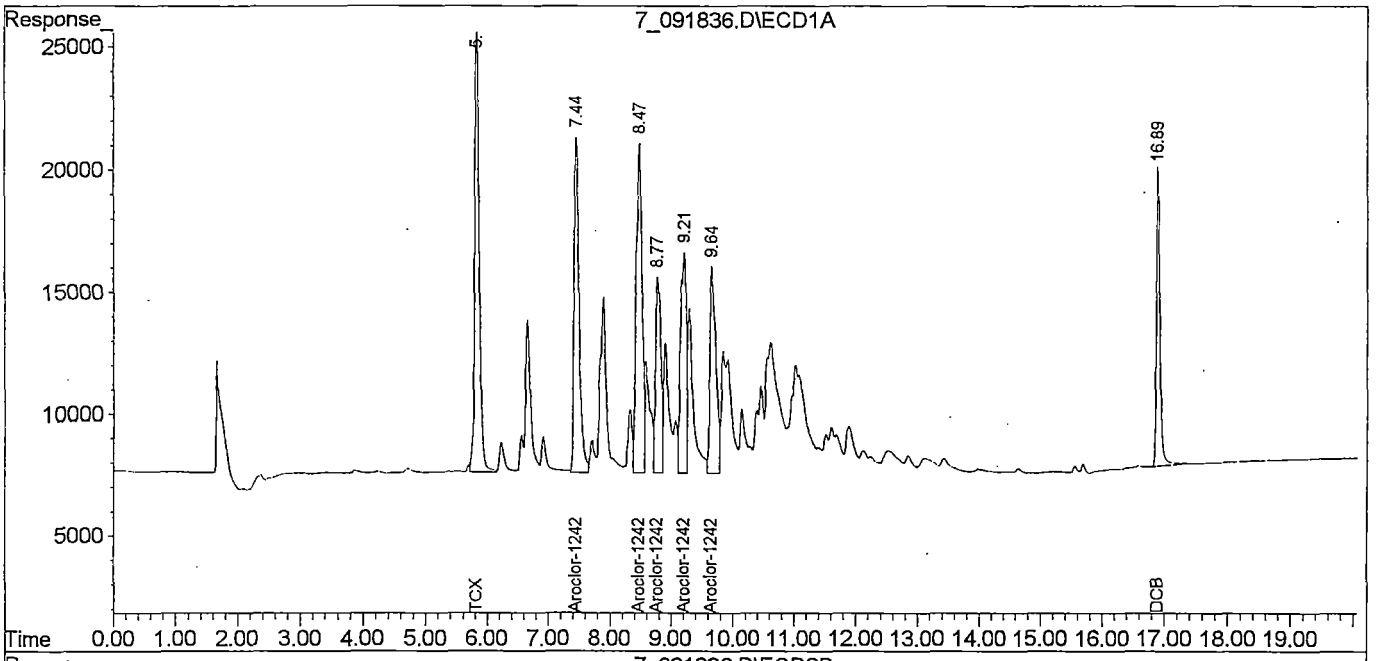
F:\HPCHEM\HP\7\DATA\09_19_01\7_091835.D
Report generated: Wed Sep 19 08:56:11 2001

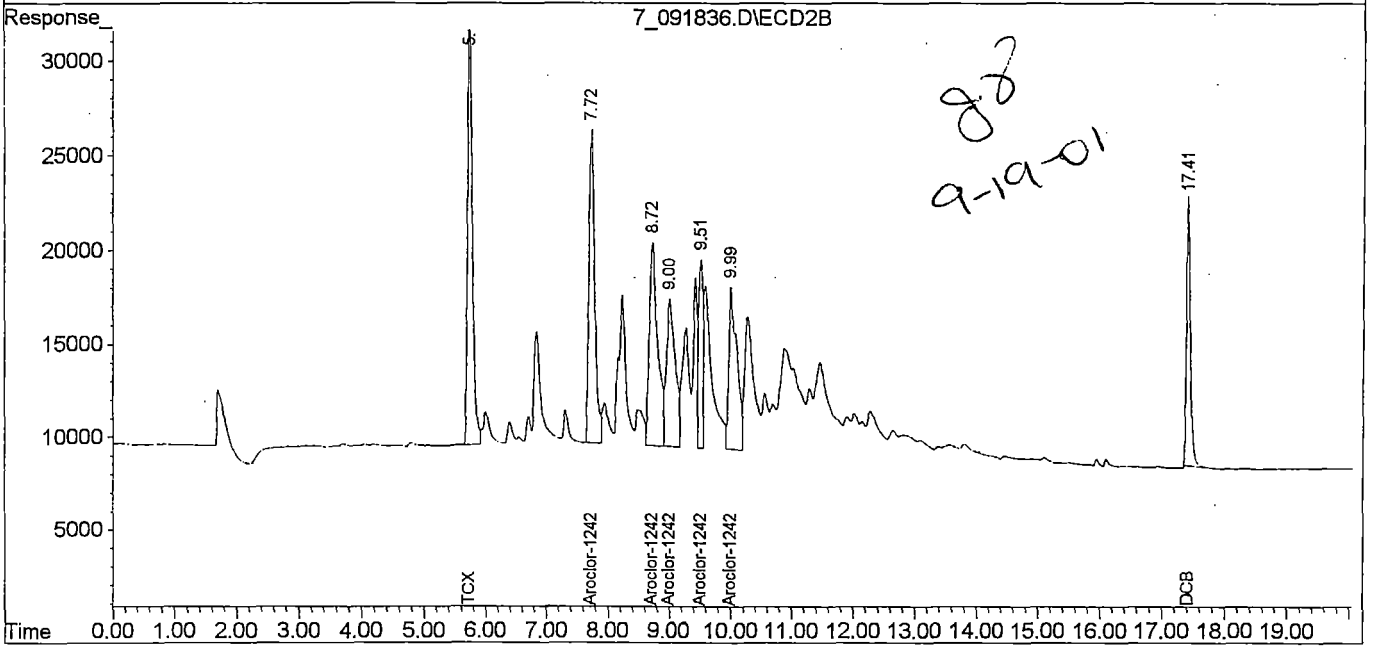
Chromatographic Report

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
)	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

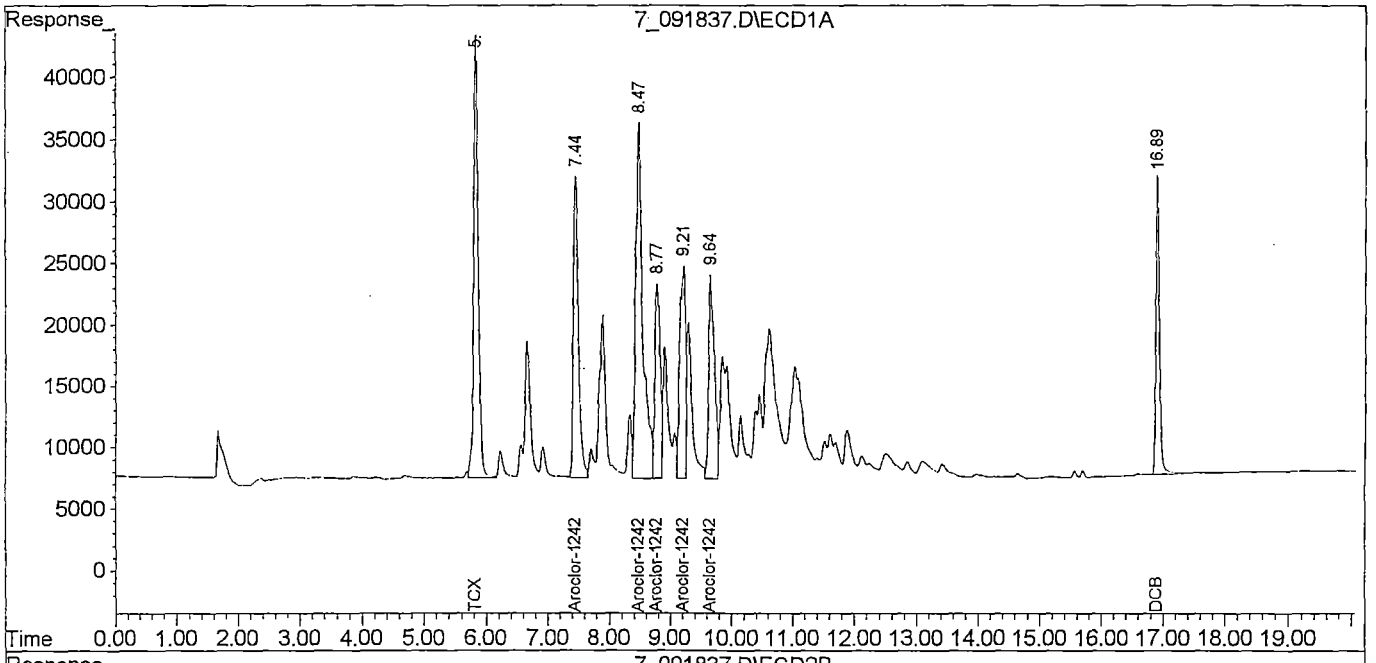
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

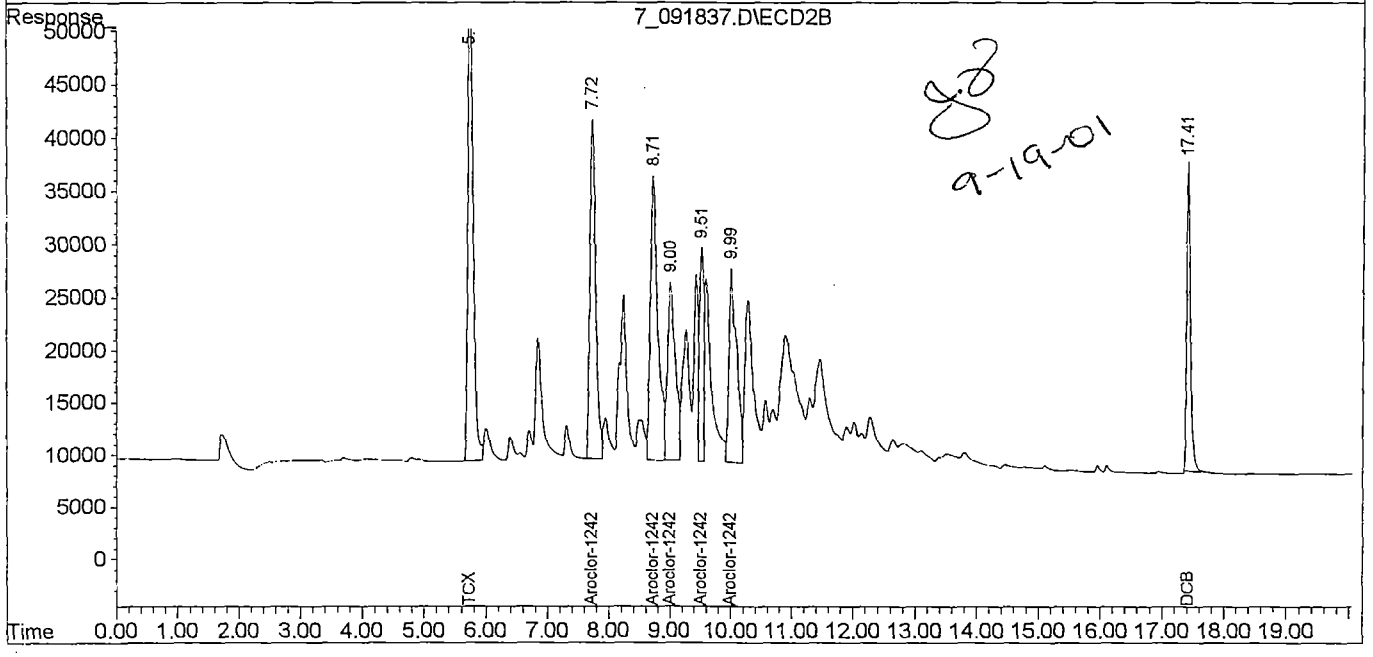
Chromatographic Report

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





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
[illegible])	L4 Aroclor-1242 {3}	8.77	9.00	943812	1566757	825.8	860.3
[illegible])	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

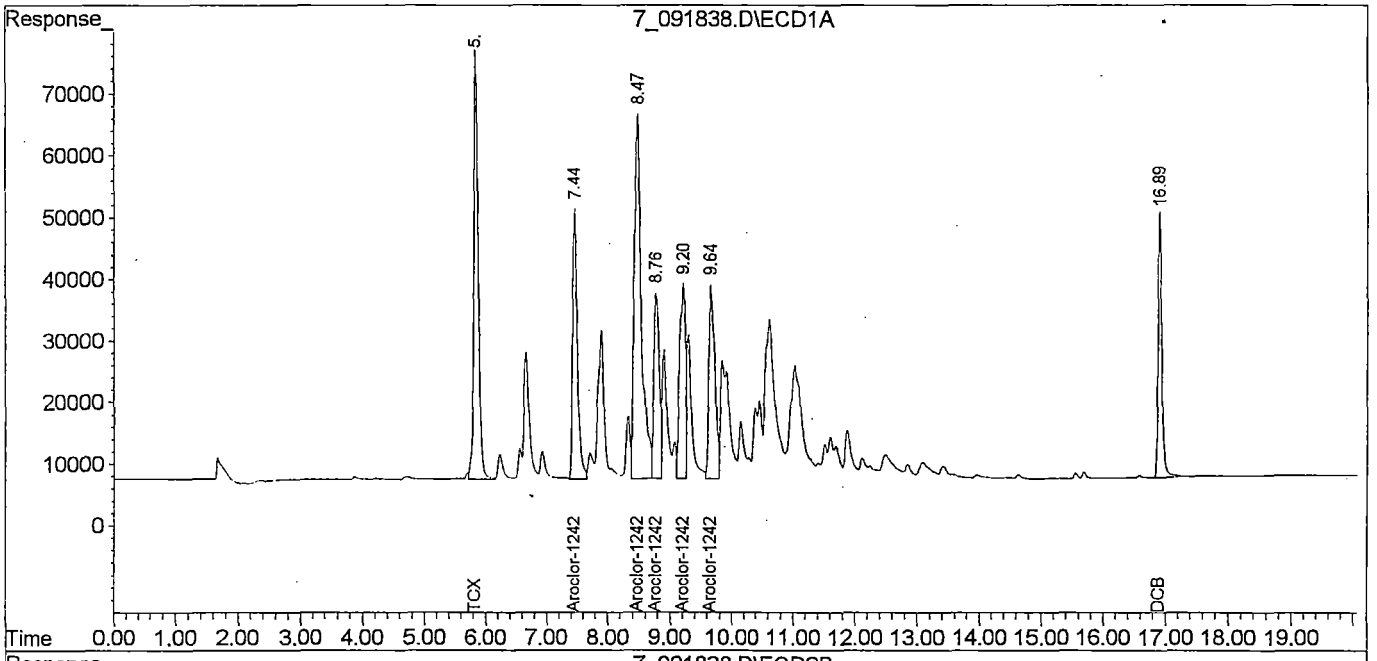
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std.

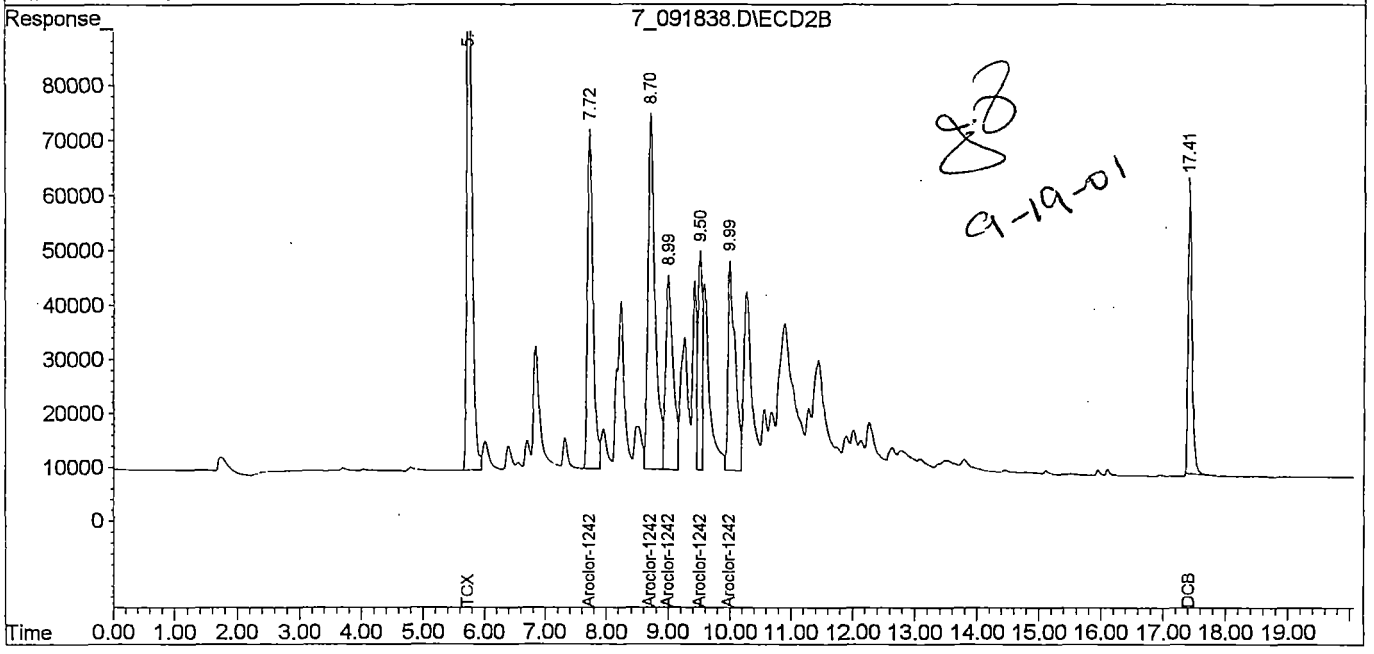
Chromatographic Report

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
)	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

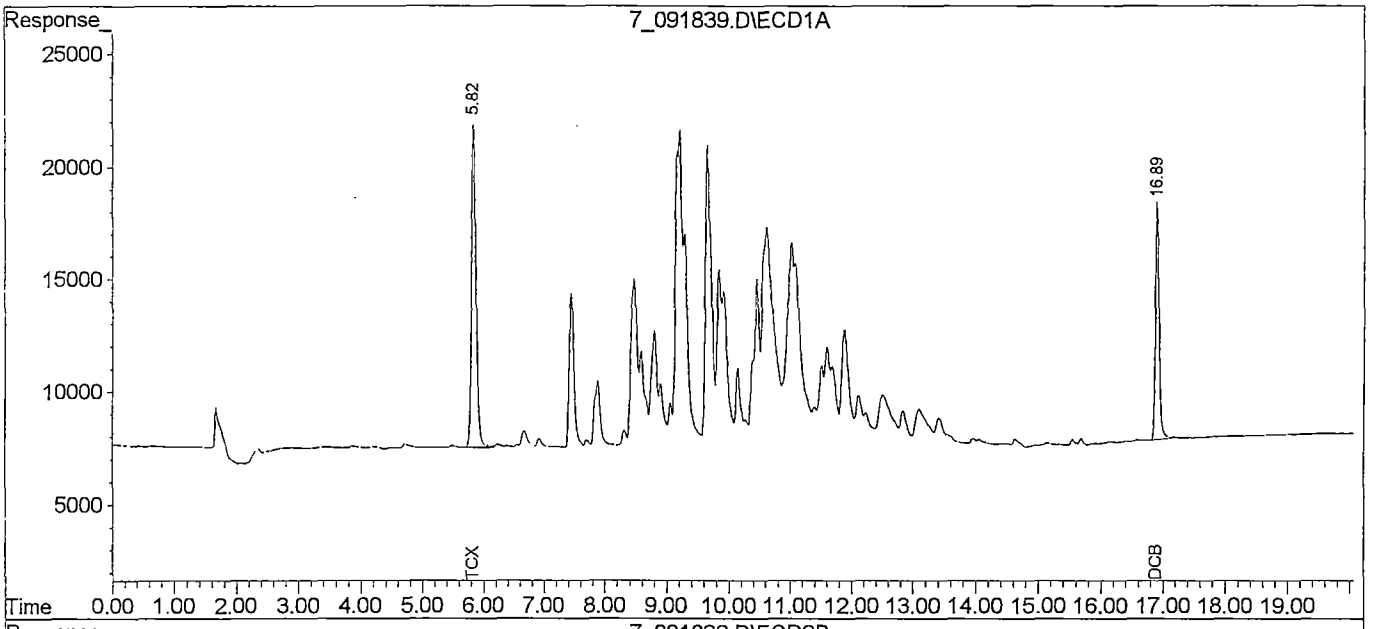
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

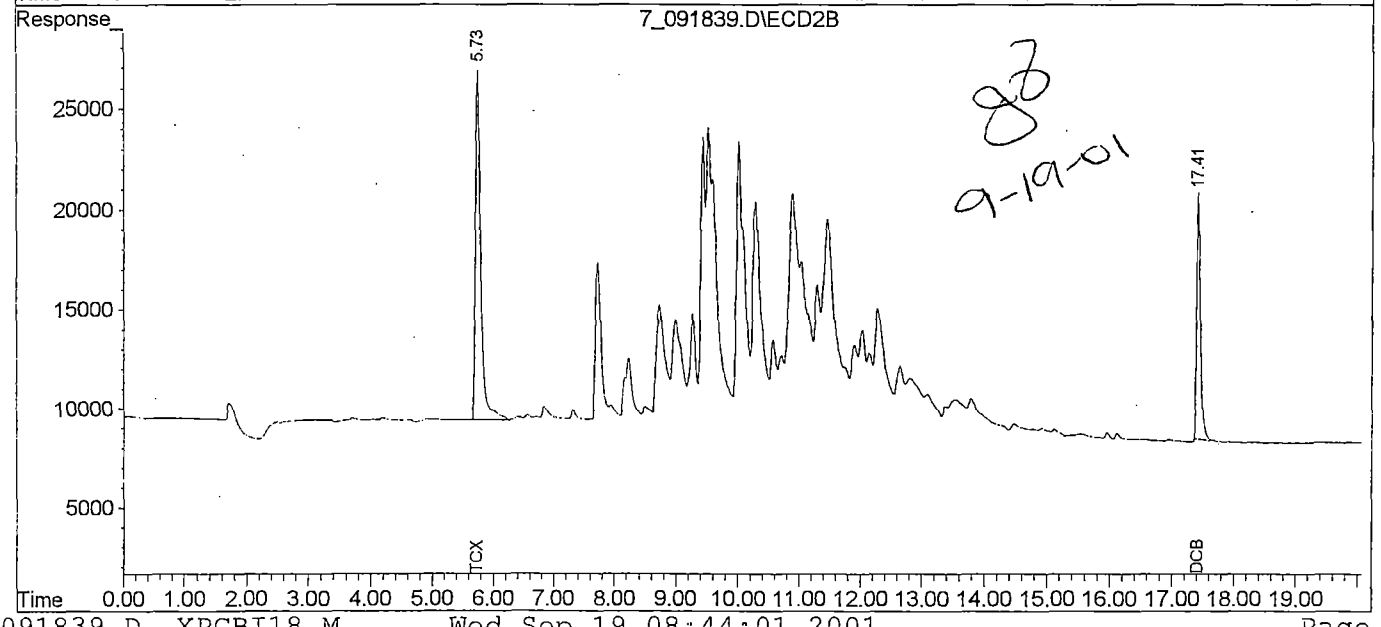
Chromatographic Report

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





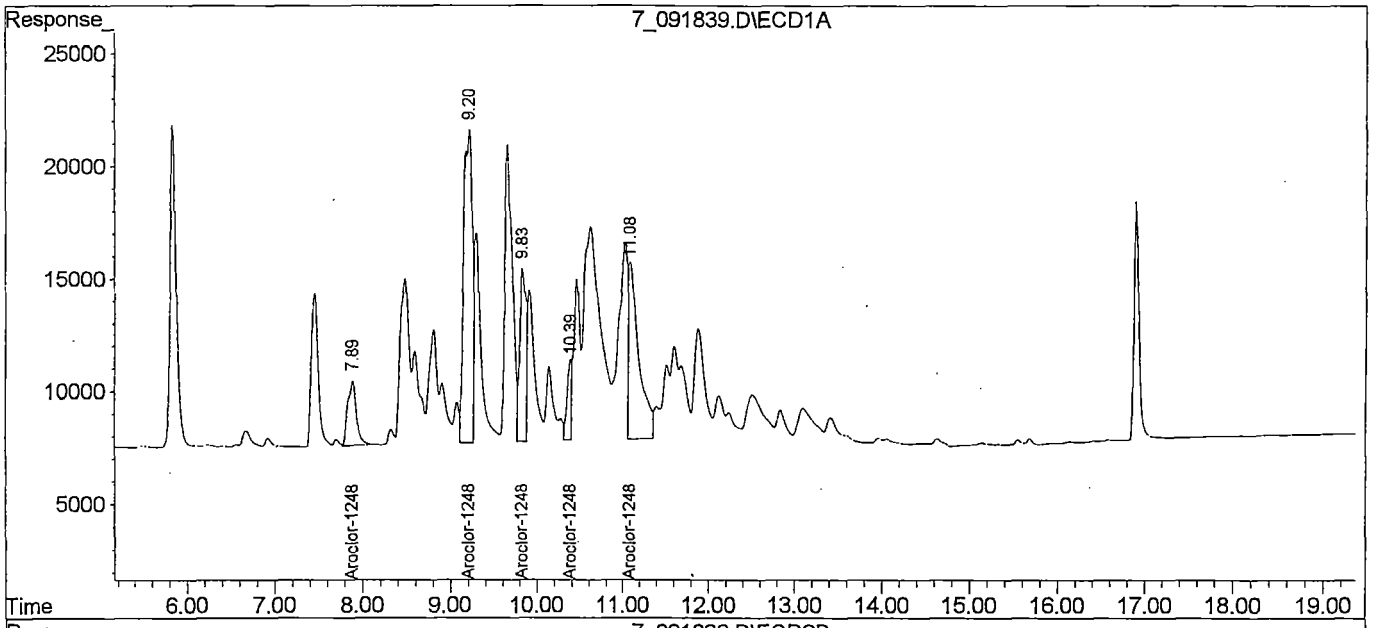
8
9-19-01

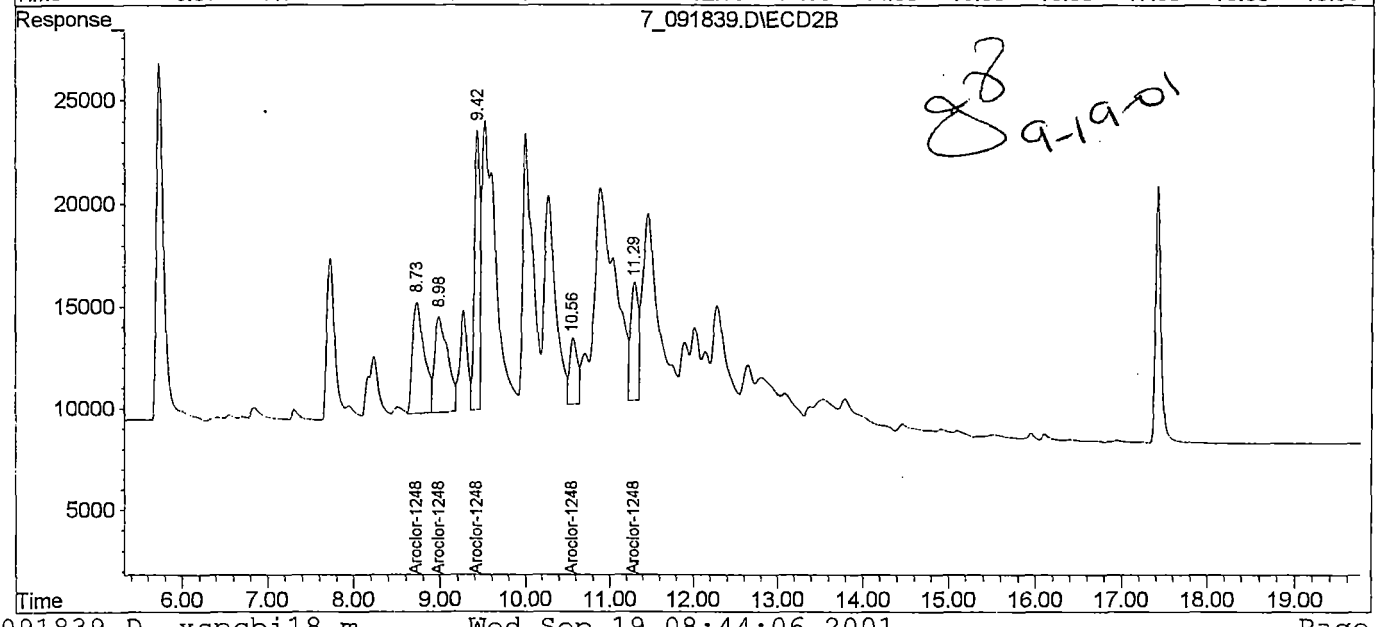
Chromatographic Report

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

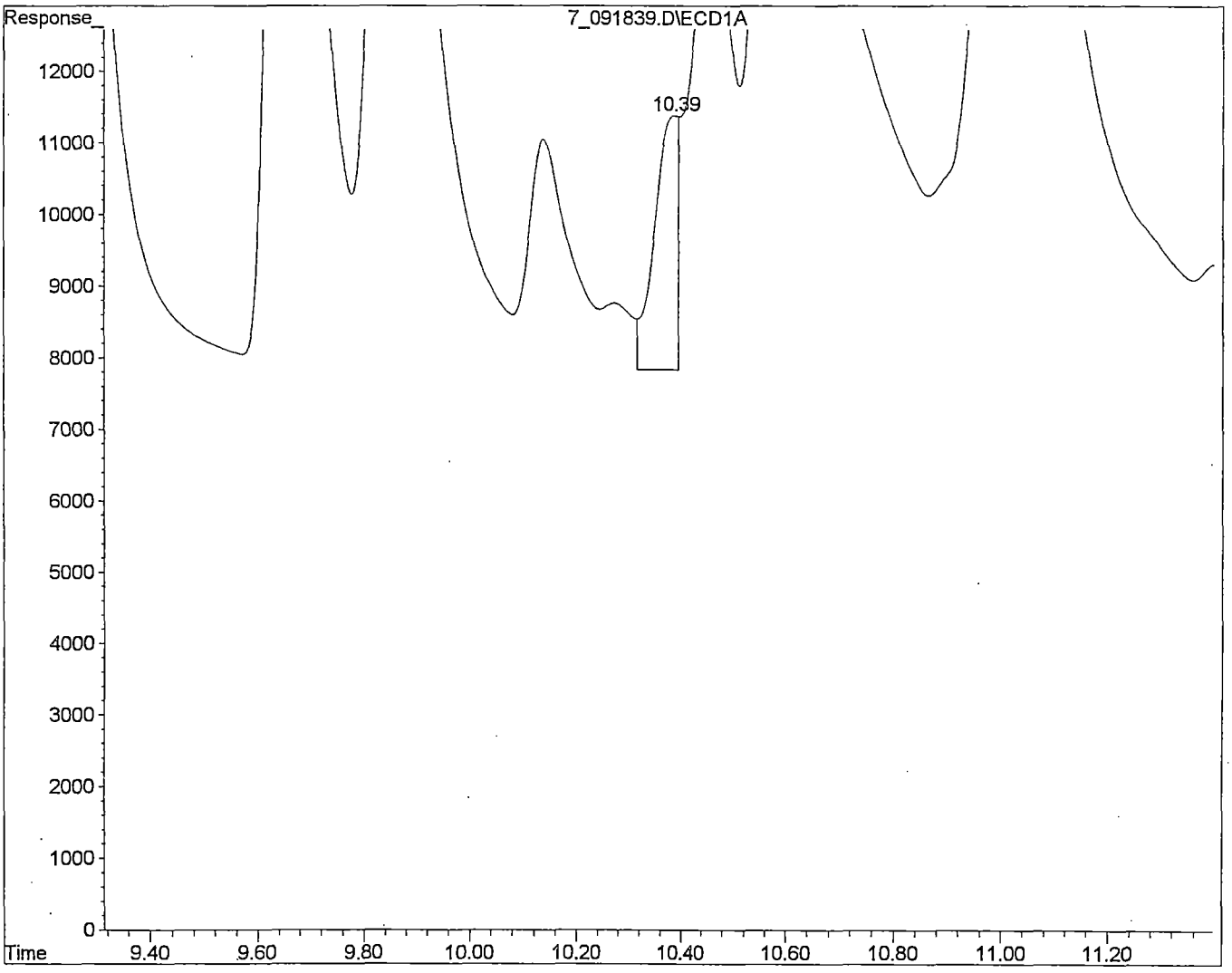
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.82	5.73	739936	1077572	17.9	19.0	
22)	S DCB	16.90	17.42	419188	530186	17.4	19.0	
	Target Compounds:							
	Multi-Component Compounds:							
14)	L5 Aroclor-1248	7.89	8.73	189508	525338	406.8	427.6	
15)	L5 Aroclor-1248 {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	

09.15.1

(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
8) 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

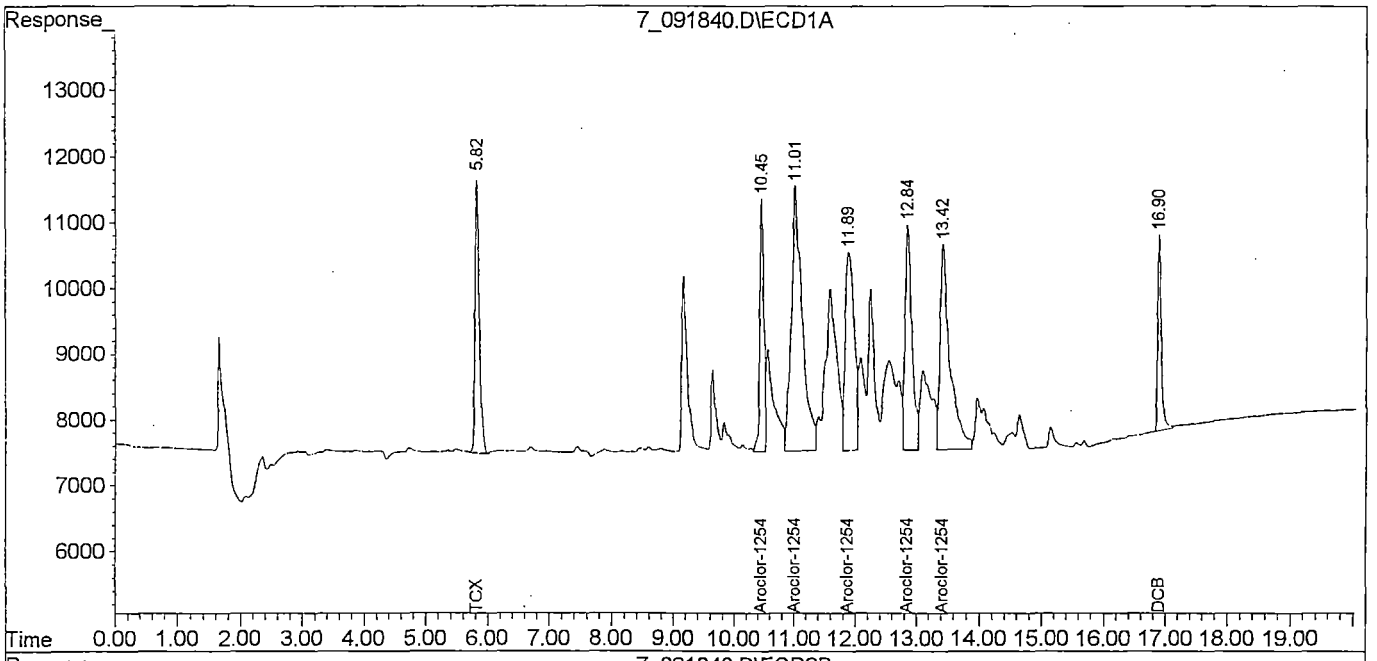
XPCBI18.M Wed Sep 19 08:32:18 2001

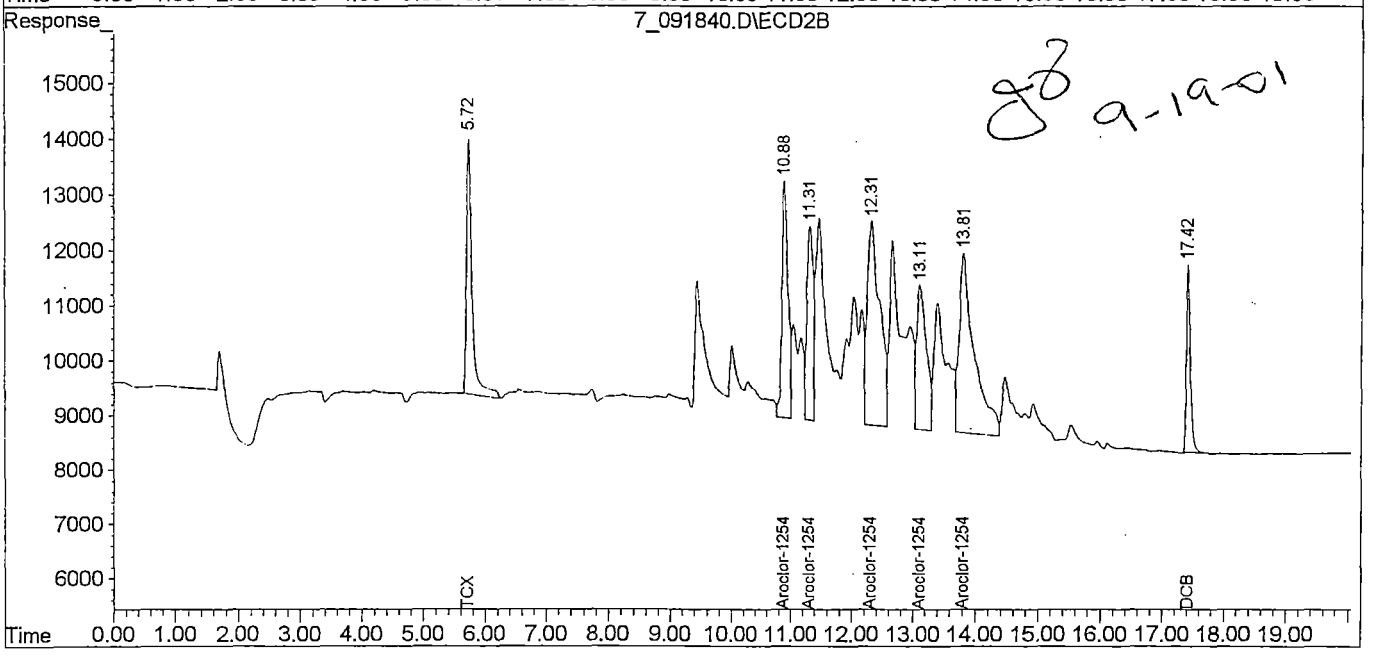
Chromatographic Report

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
)	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

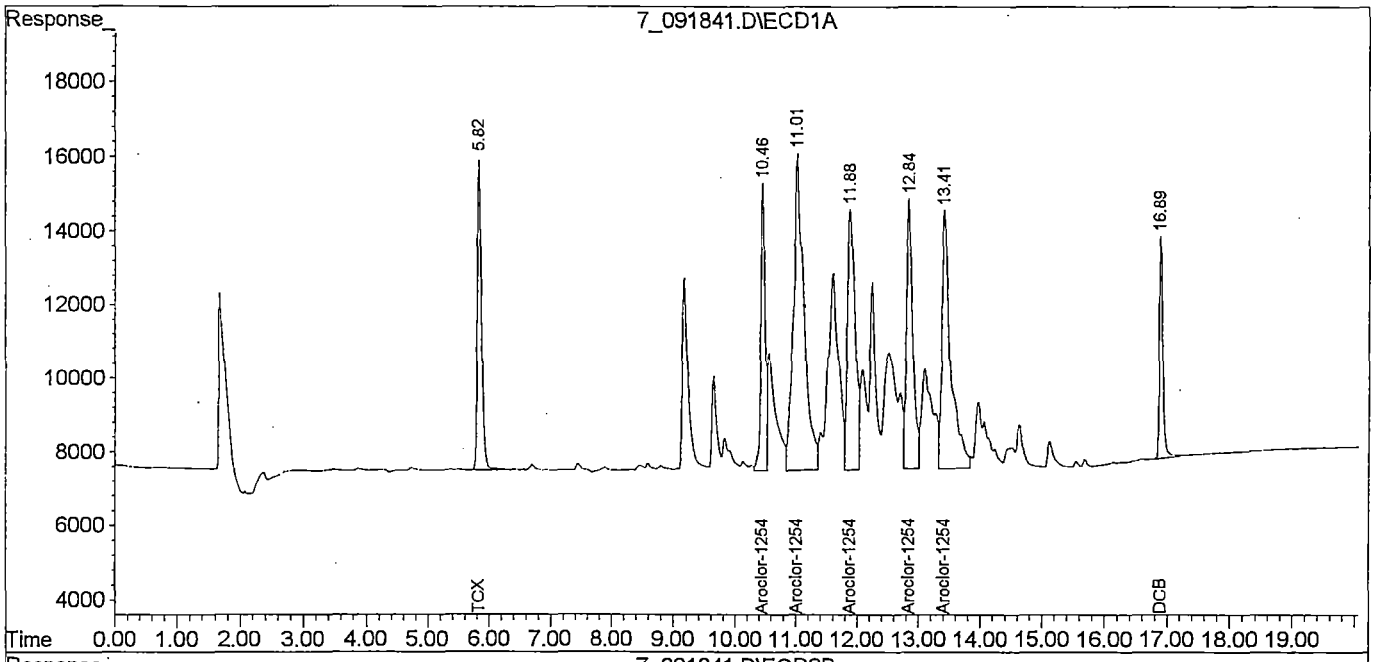
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

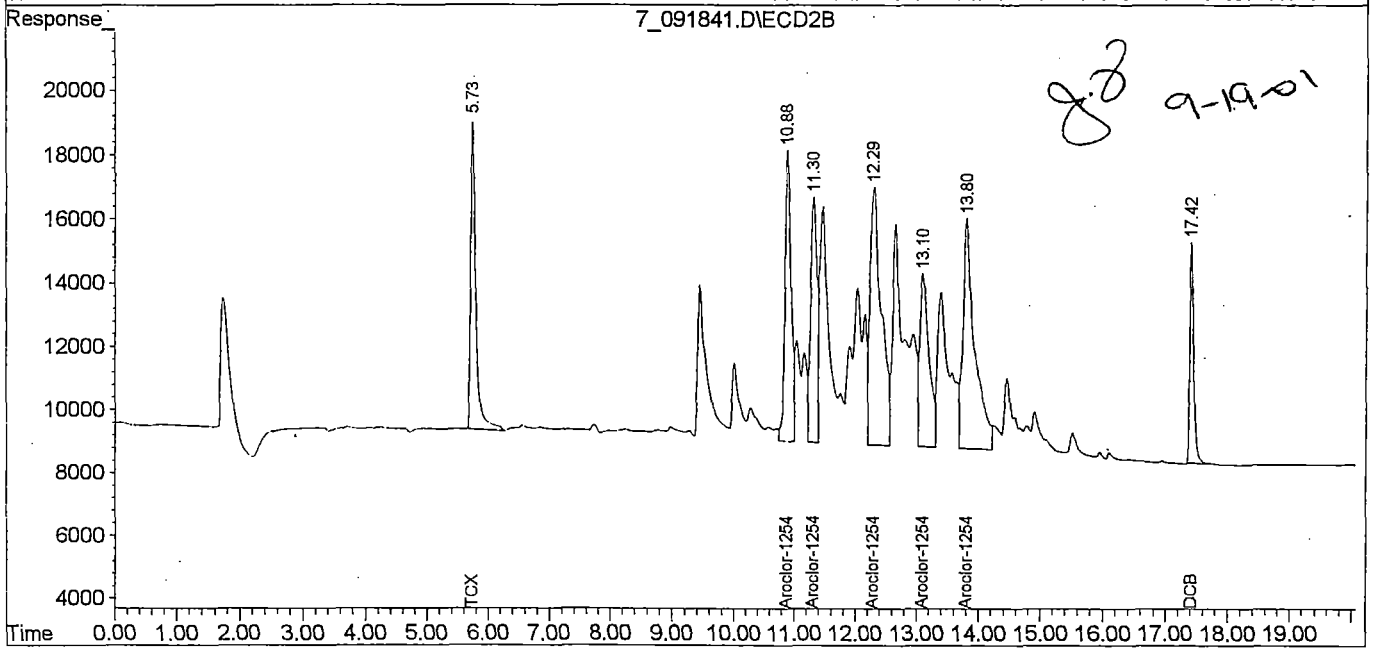
Chromatographic Report

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





gg 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
)	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

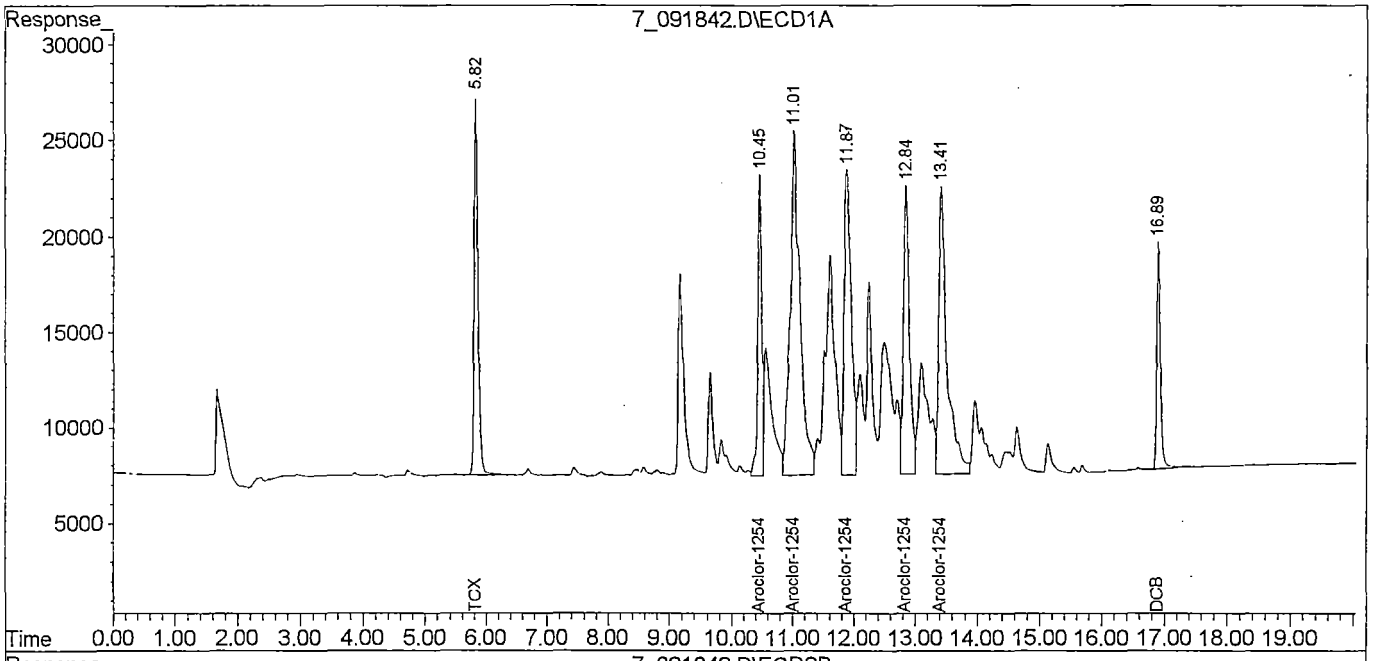
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

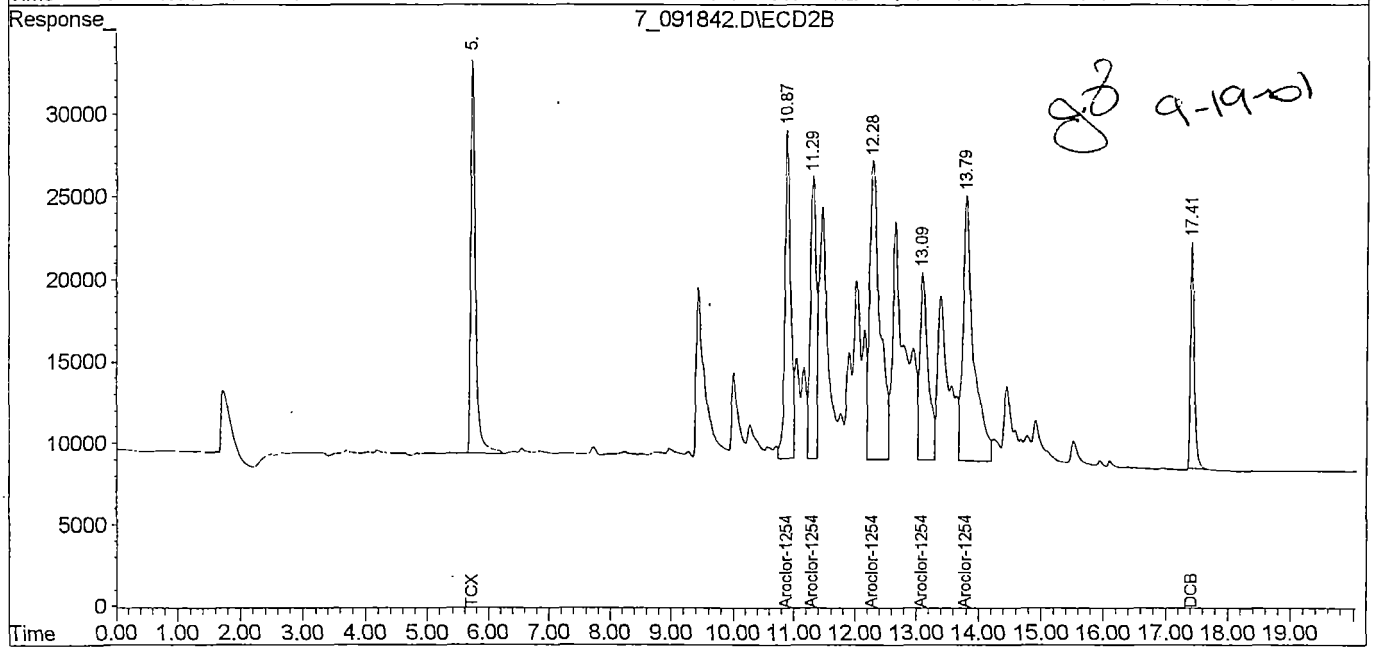
Chromatographic Report

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





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
)	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

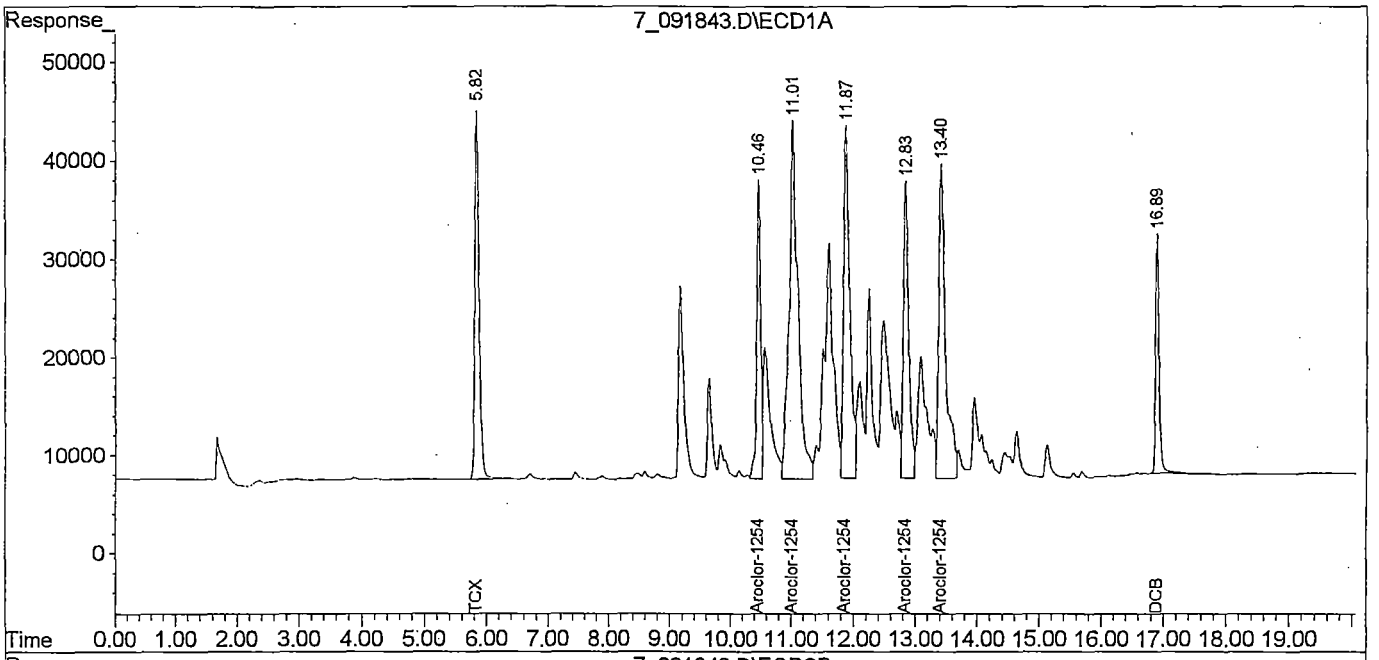
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

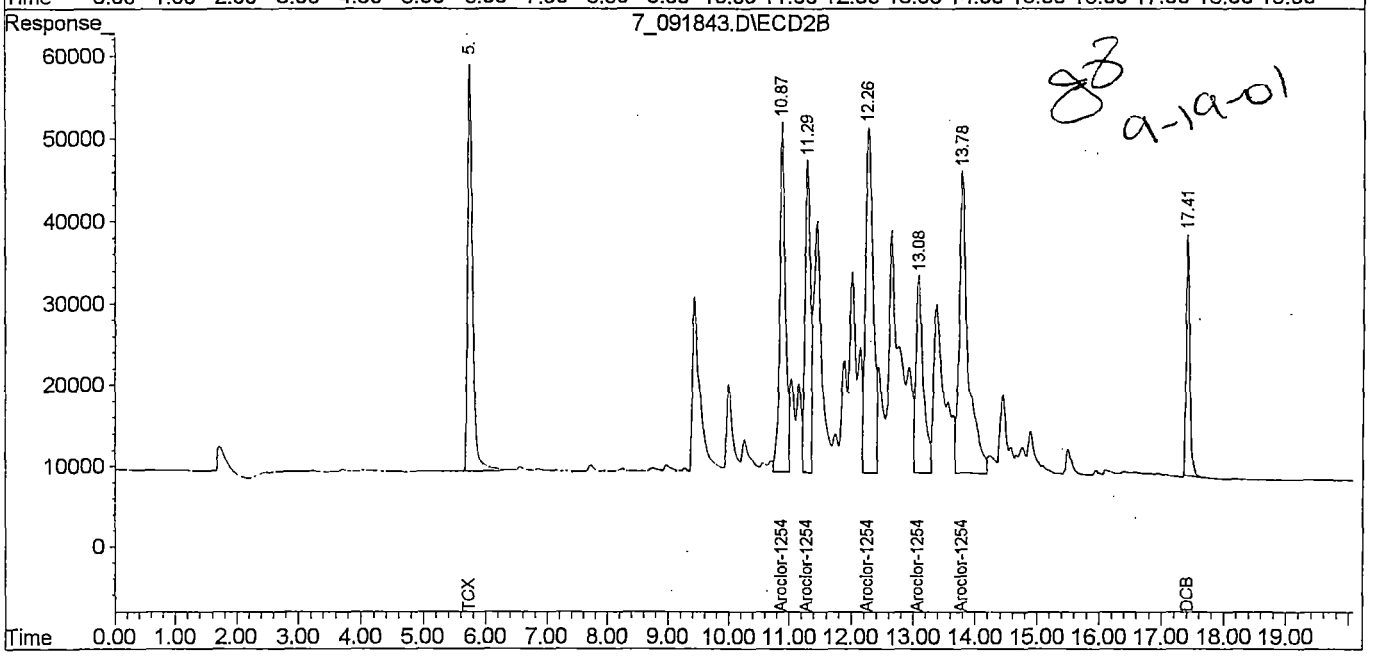
Chromatographic Report

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





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
)	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

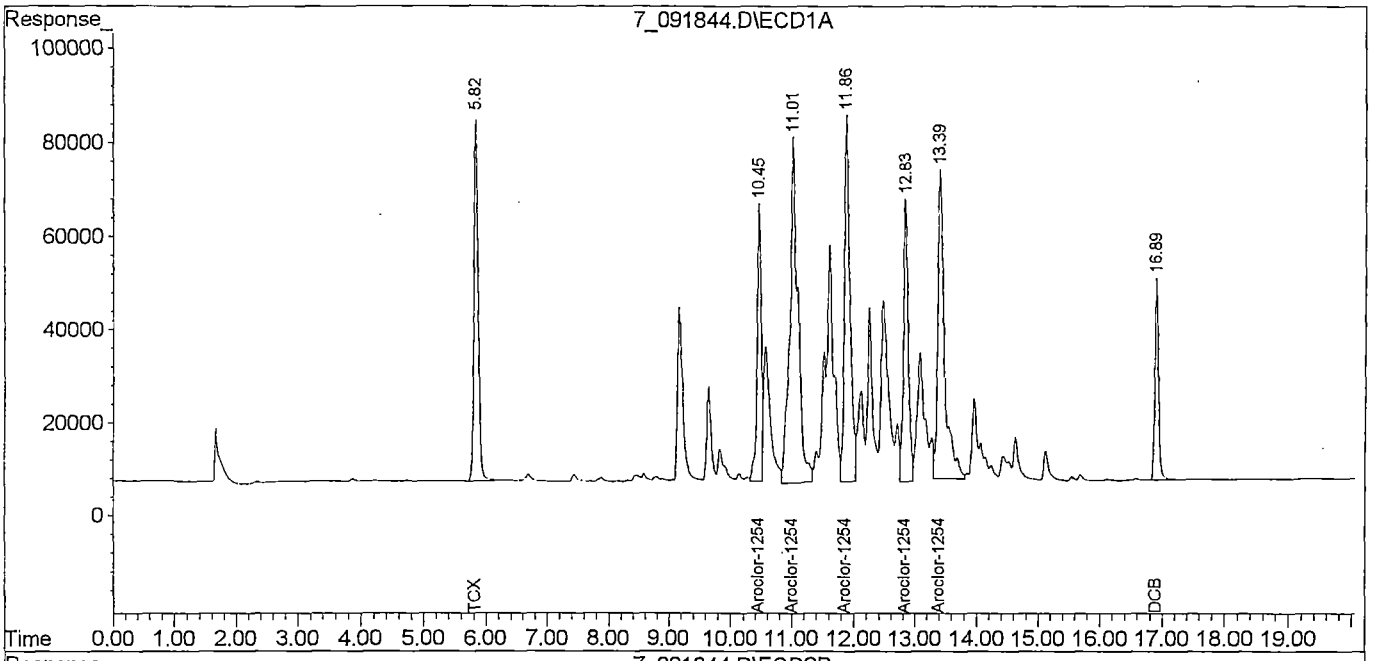
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

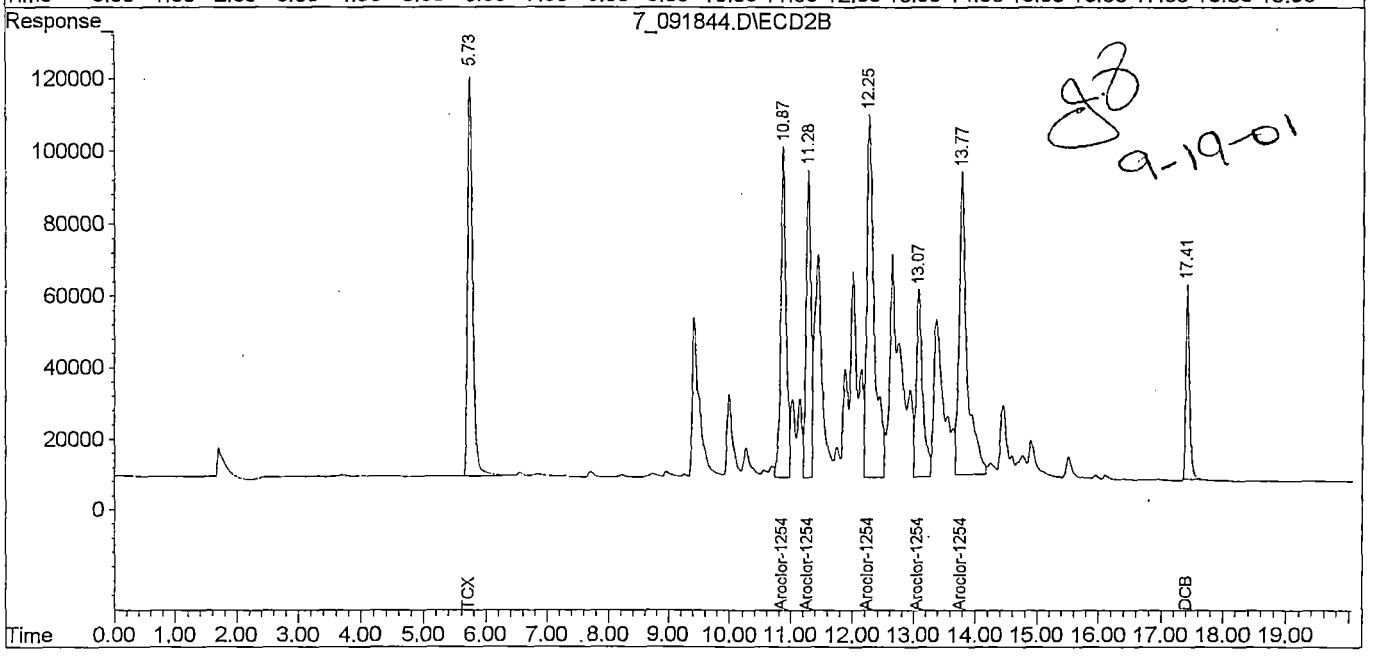
Chromatographic Report

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





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

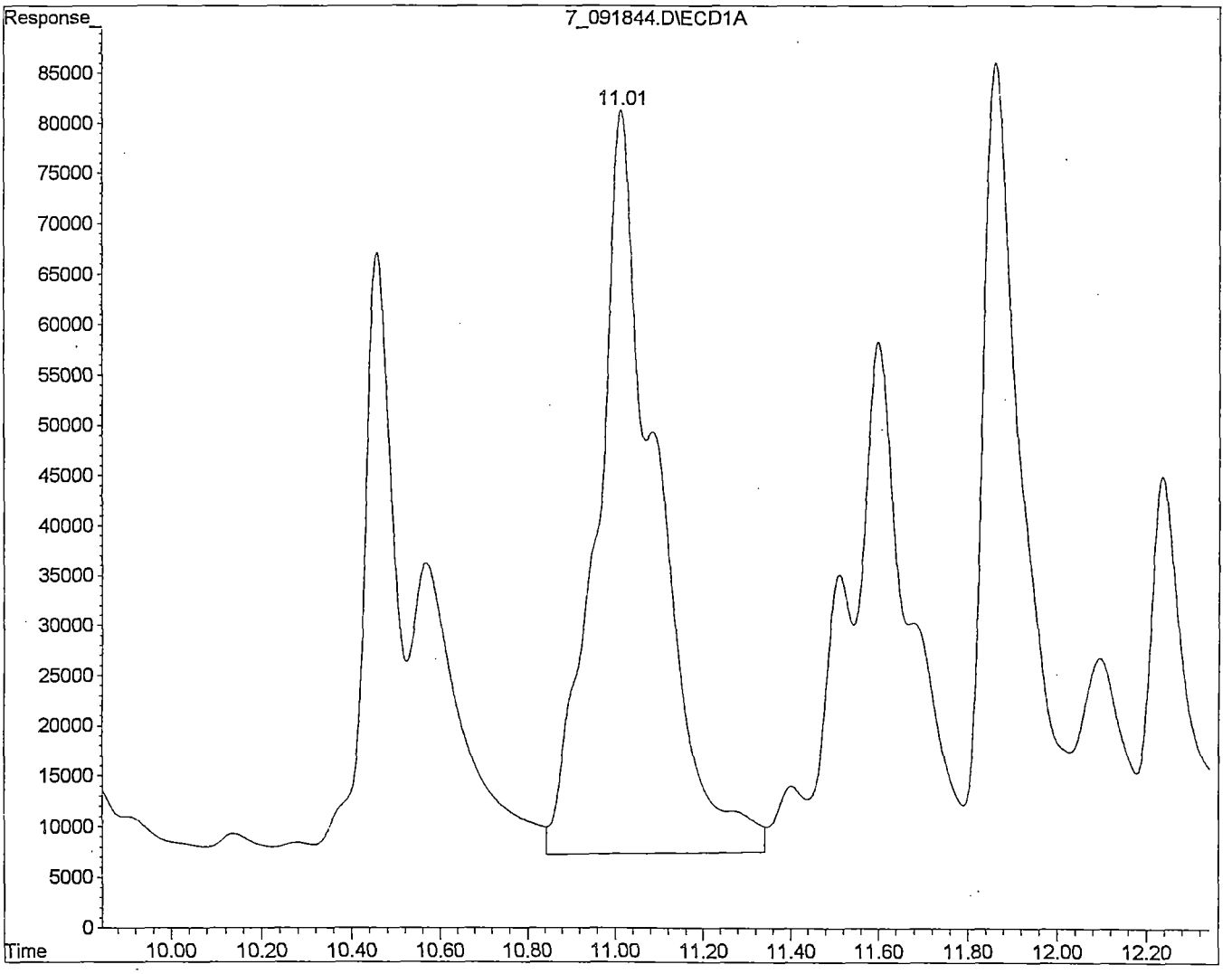
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	3691779	6313048	89.5	111.6
22)	S DCB	16.89	17.41	1722629	2264957	71.4	81.3
	Target Compounds:						
12)	L6 Aroclor-1254	10.46	10.87	2664643	5562686	1512.9 E	1777.8
13)	L6 Aroclor-1254 {2}	11.01	11.28	6934192	4676717	1502.9mE	1801.5
14)	L6 Aroclor-1254 {3}	11.86	12.25f	4821328	8660112	1619.0	1751.6mE
)	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



CO 9-19-1

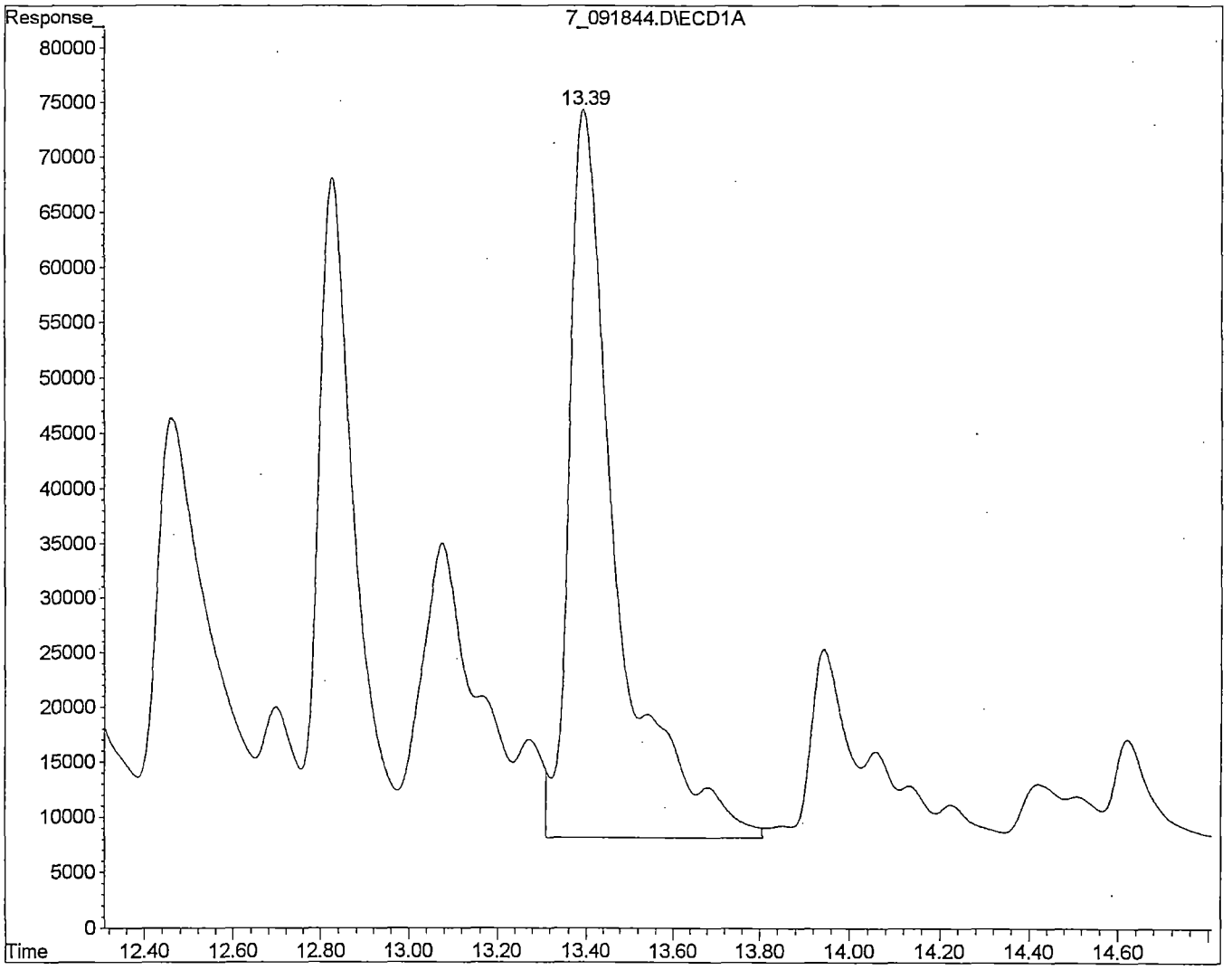
Aroclor-1254 {2} 11.01min area: 6934192 m

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

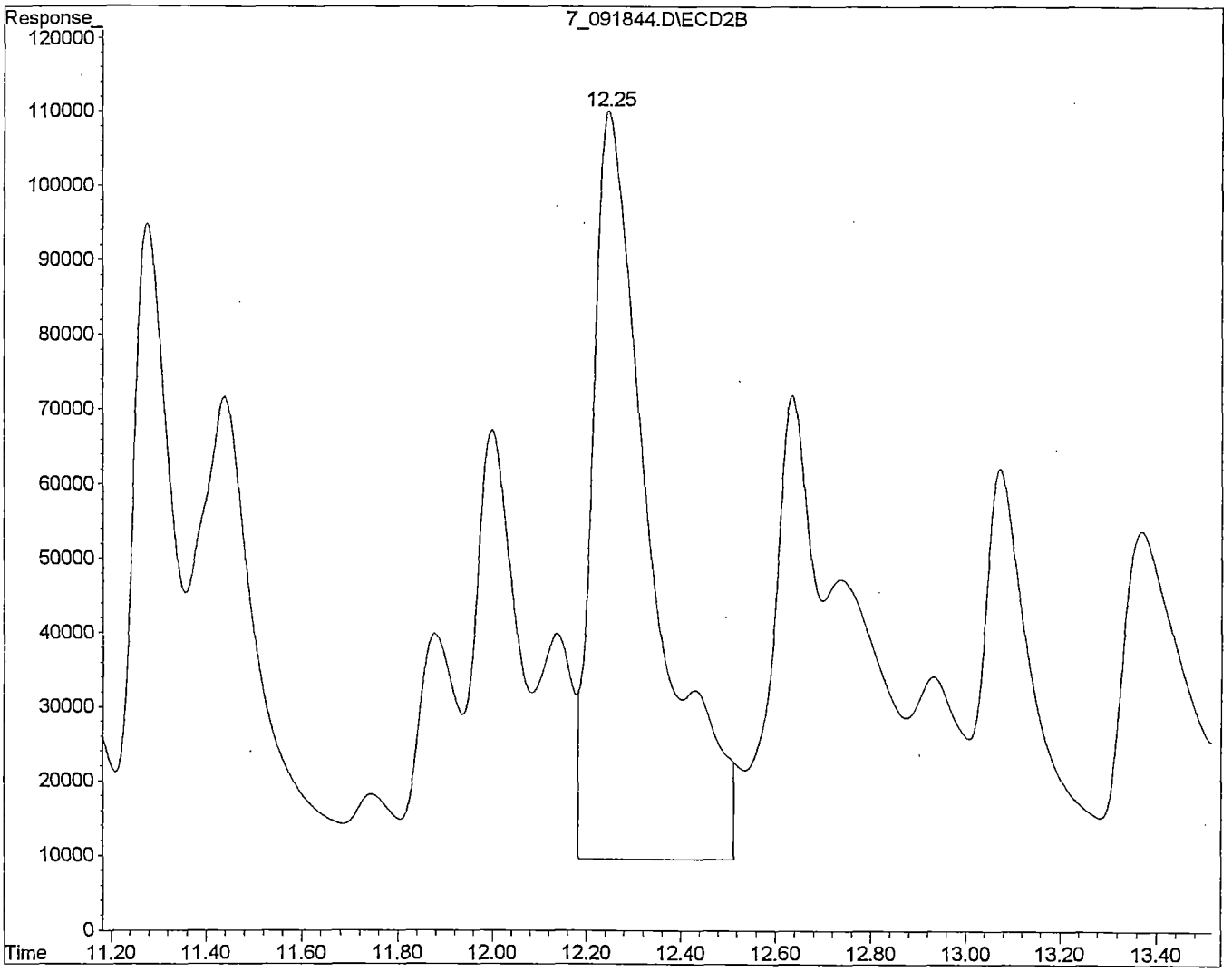
Aroclor-1254 {5} 13.39min area: 4996537 m

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



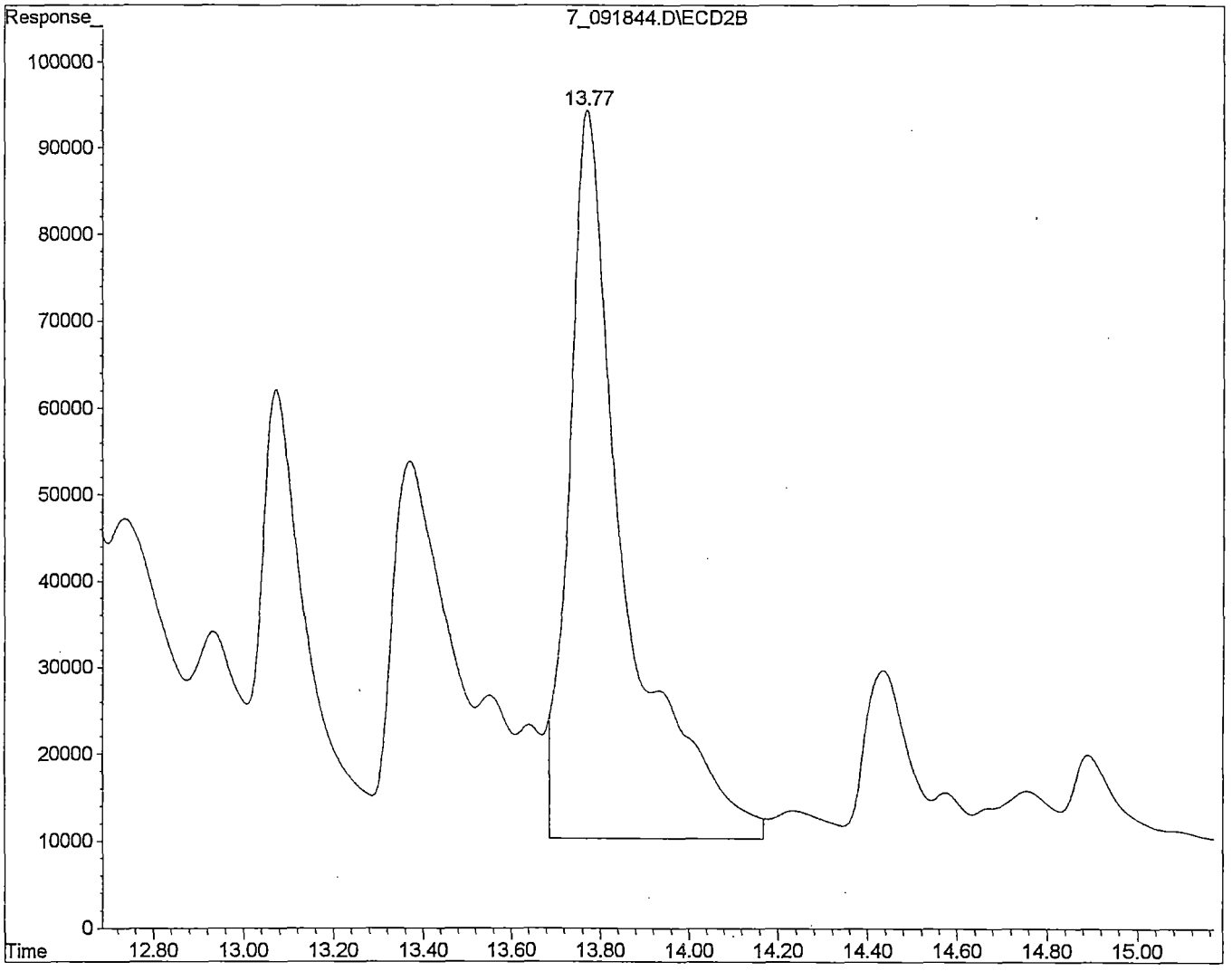
Aroclor-1254 {3} #2 12.25min area: 8660112 m

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



009.19.4

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

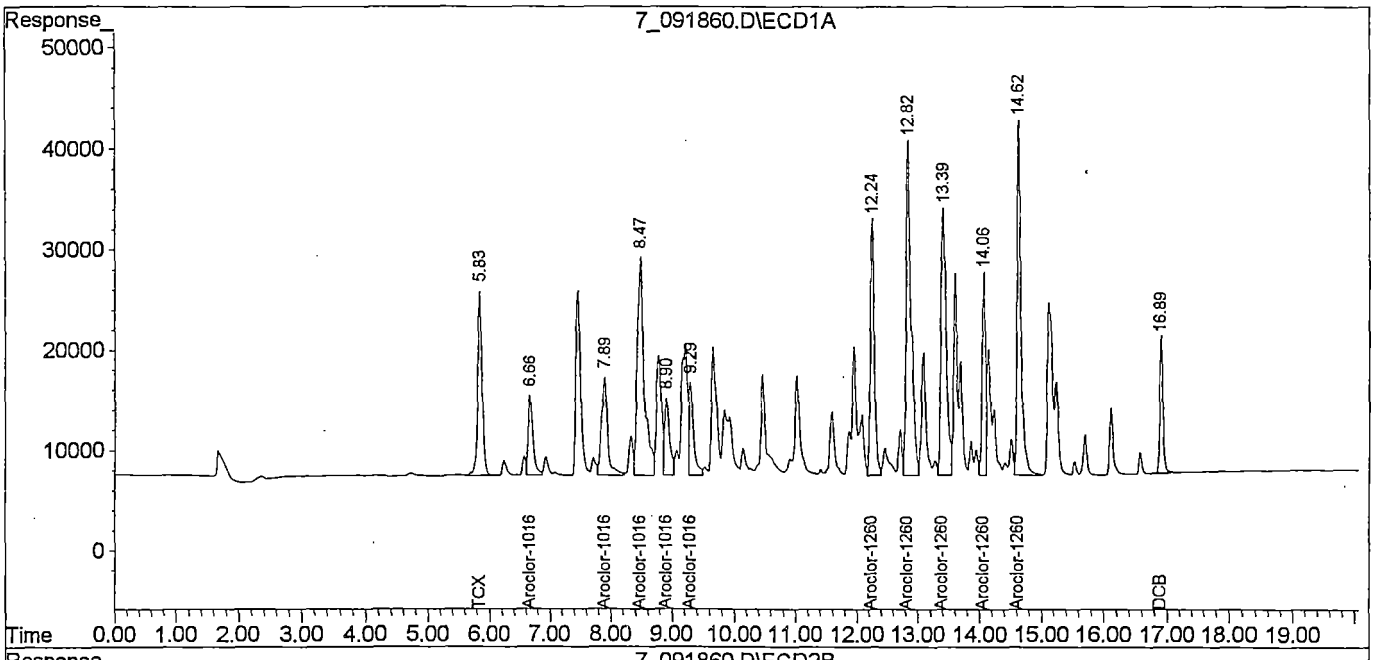
7_091860.D XPCBI18.M Wed Sep 19 08:13:23 2001

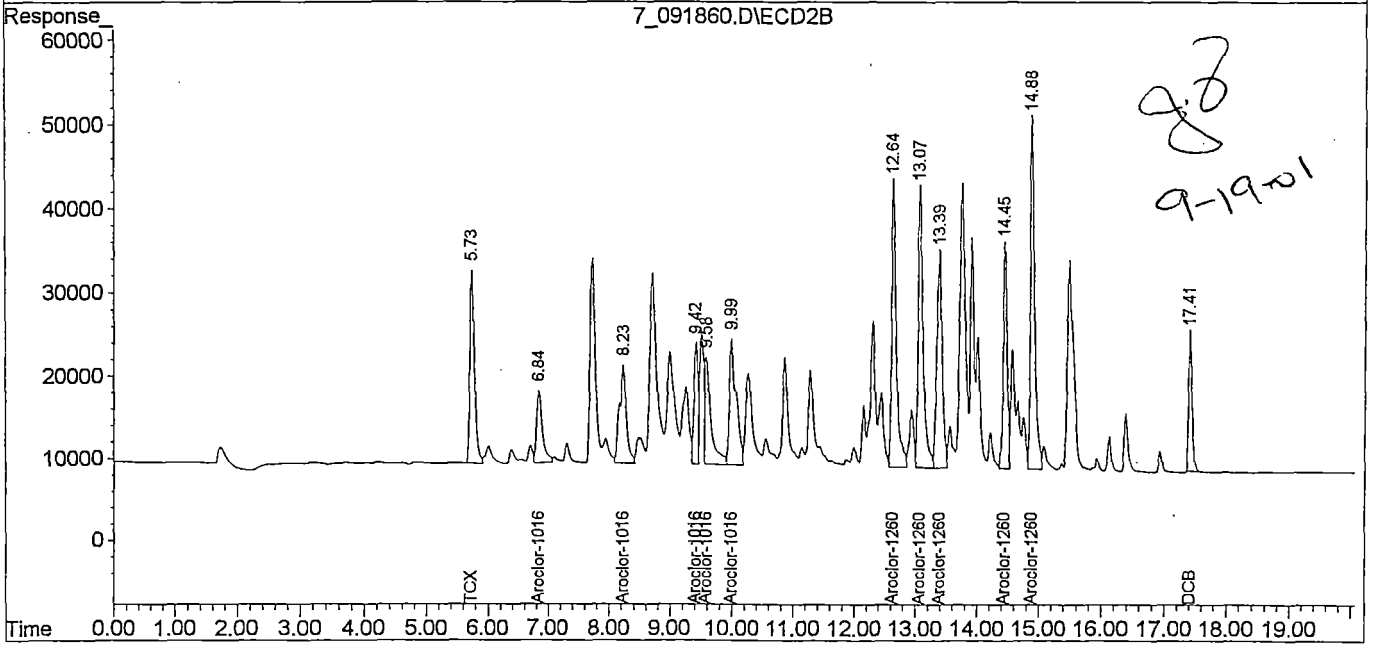
Chromatographic Report

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





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

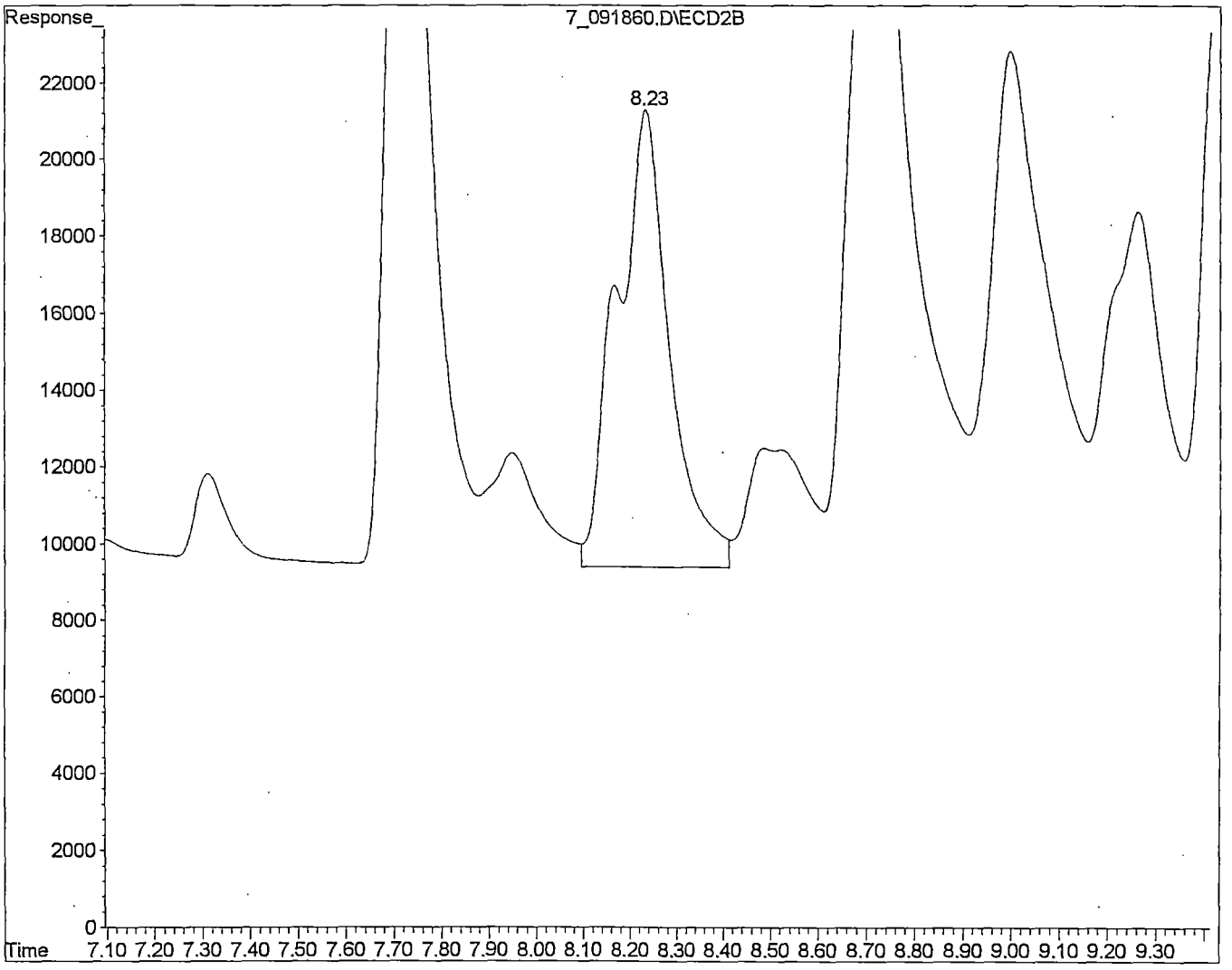
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	5.83	5.73	926357	1247337	22.5	22.0	
22)	S DCB	16.89	17.41	485348	641200	20.1	23.0	
	Target Compounds:							
2)	L1 Aroclor-1016	6.66	6.84	458114	610016	461.5	505.9	
3)	L1 Aroclor-1016 {2}	7.89	8.23	683525	934525	481.9	622.2m	#
4)	L1 Aroclor-1016 {3}	8.48	9.42	1722760	634771	601.2	515.3	
[illegible])	L1 Aroclor-1016 {4}	8.90	9.58	430983	917109	460.2	418.2	
[illegible]	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	

ad 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



09.19.4

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

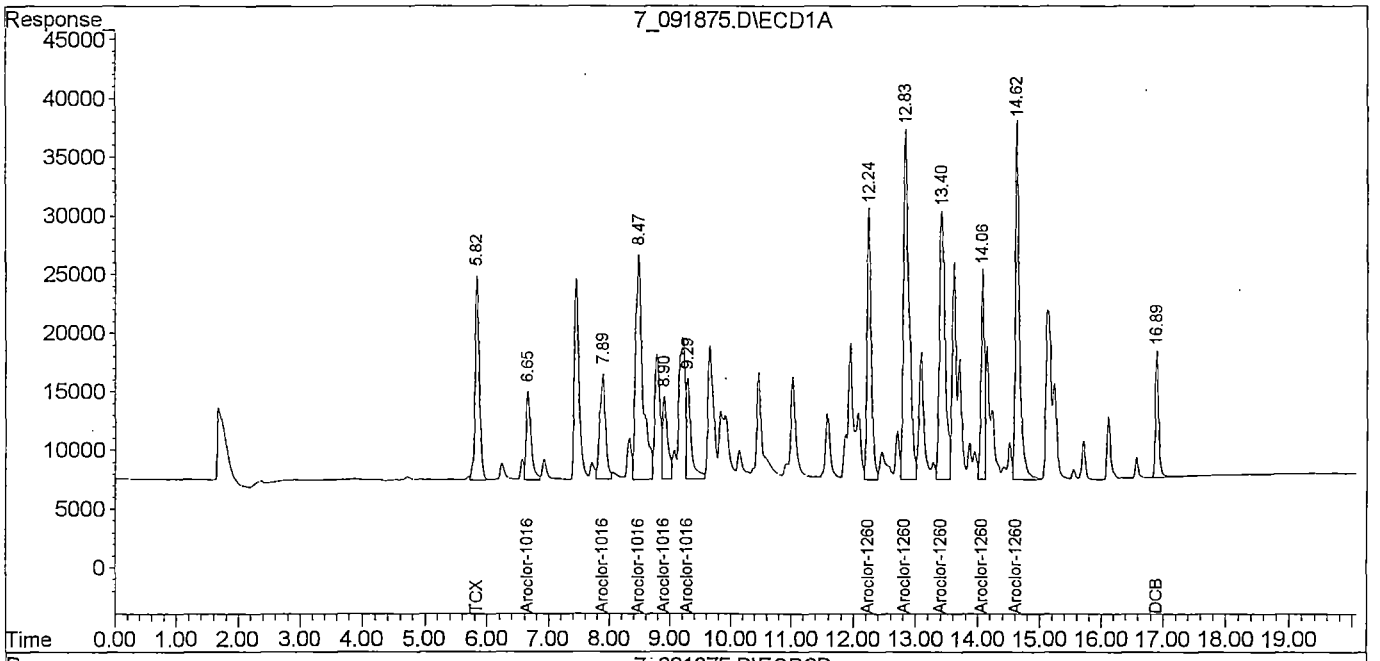
7_091875.D XPCBI18.M Thu Sep 20 06:51:06 2001

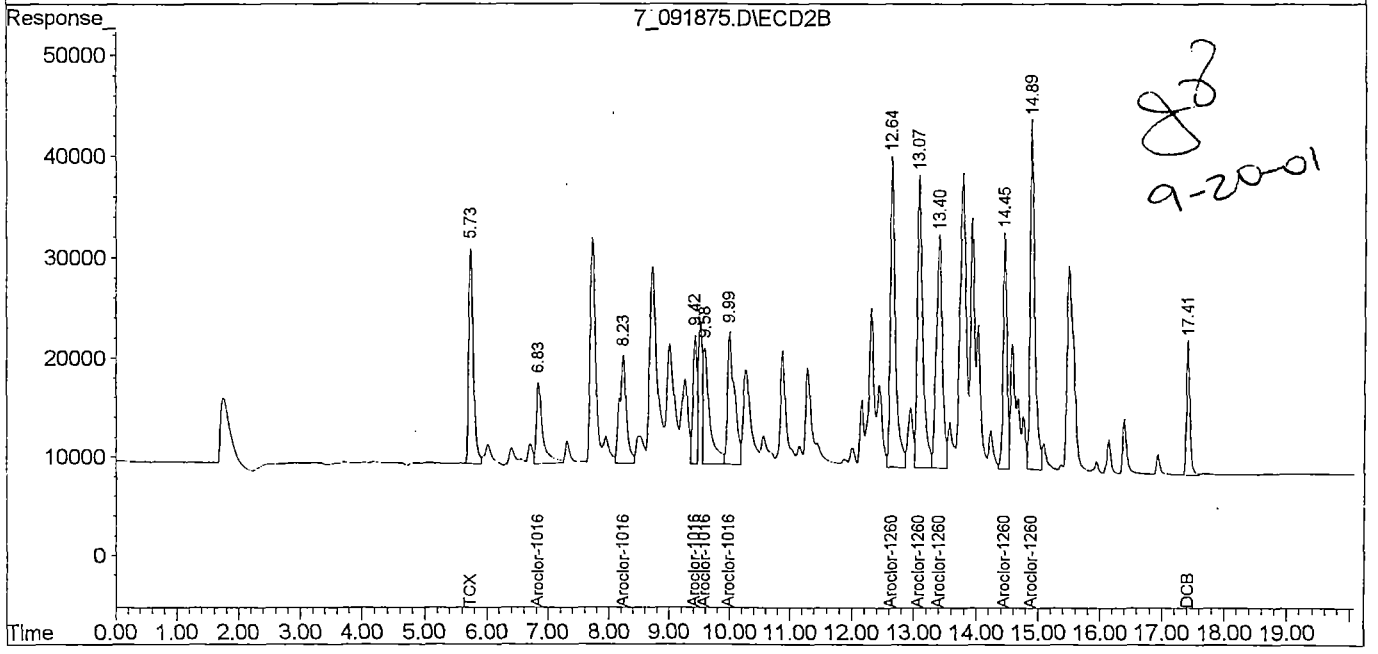
Chromatographic Report

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

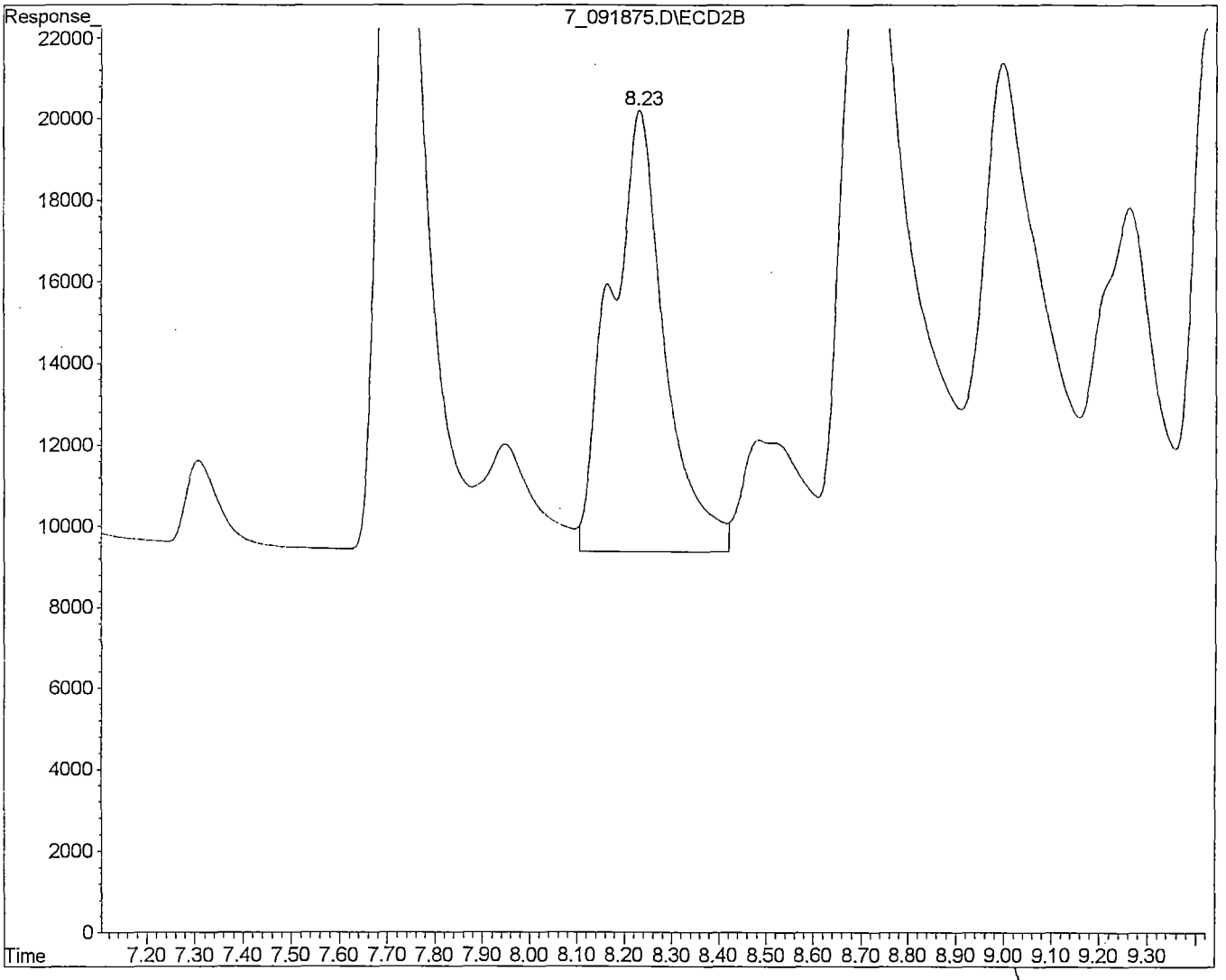
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	837520	1129382	19.4	17.2
22)	S DCB	16.89	17.41	392239	537306	16.9	18.2m
	Target Compounds:						
2)	L1 Aroclor-1016	6.66	6.83	425143	614485	402.6	432.0
3)	L1 Aroclor-1016 {2}	7.89	8.23	585199	855480	379.0	398.6m
4)	L1 Aroclor-1016 {3}	8.47	9.42	1575436	566856	412.4	393.7
)	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
17)	L7 Aroclor-1260	12.24	12.64	1080951	1737310	408.6	410.6
18)	L7 Aroclor-1260 {2}	12.83	13.08	1821766	1776588	413.6	422.4
19)	L7 Aroclor-1260 {3}	13.40	13.40	1477229	1505726	419.8	399.9
20)	L7 Aroclor-1260 {4}	14.06	14.45	665193	1030748	409.3	406.8
21)	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

(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_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

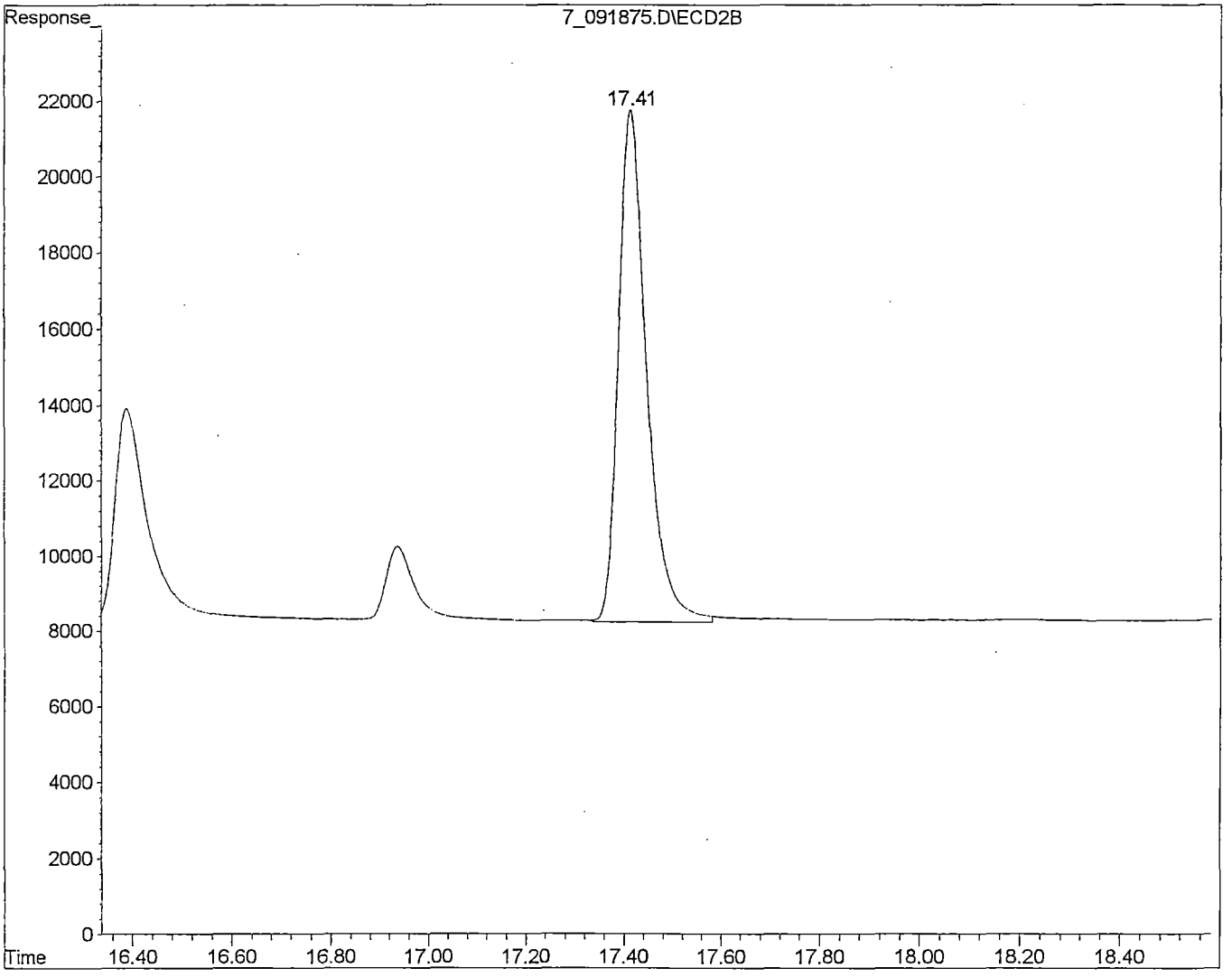
Aroclor-1016 {2} #2 8.23min area: 855480 m

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

F:\HPCHEM\HP\7\DATA\09_19_01\7_091875.D
Report generated: Wed Sep 19 15:19:09 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKSE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: BL0816SE

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: 09/13/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U
Surrogate amount spiked		6.67	

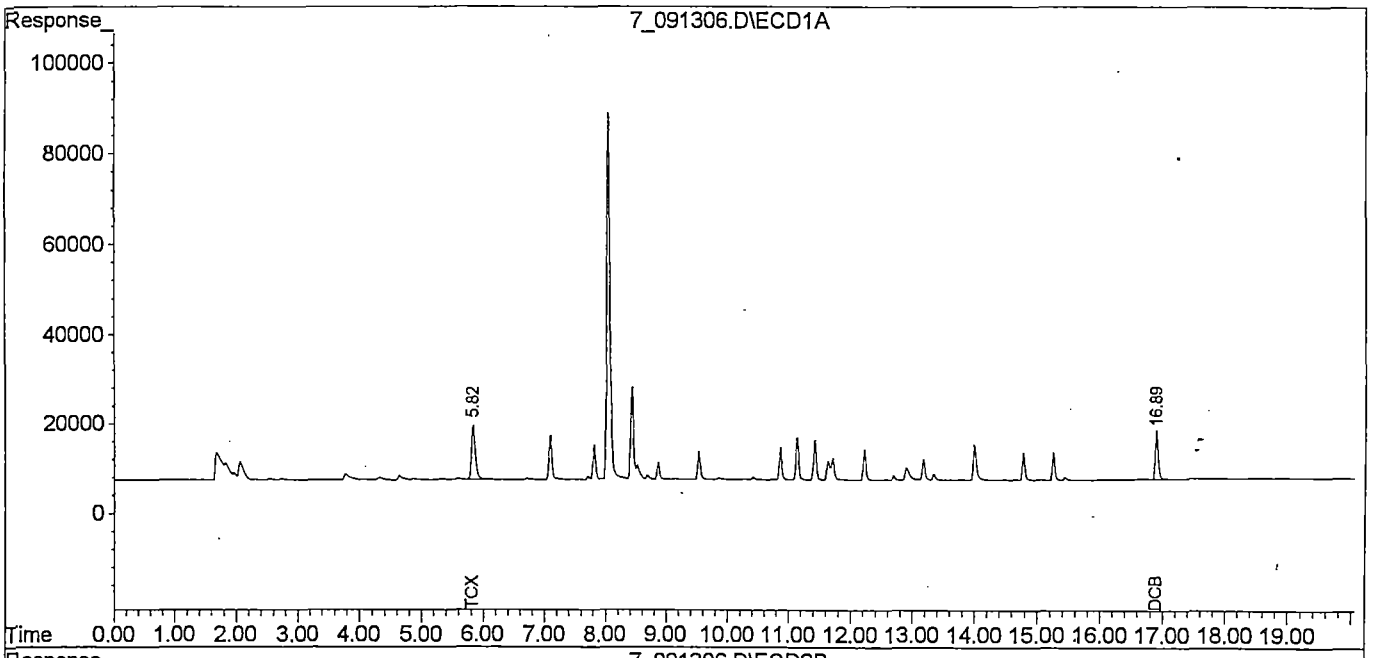
FORM I PCB

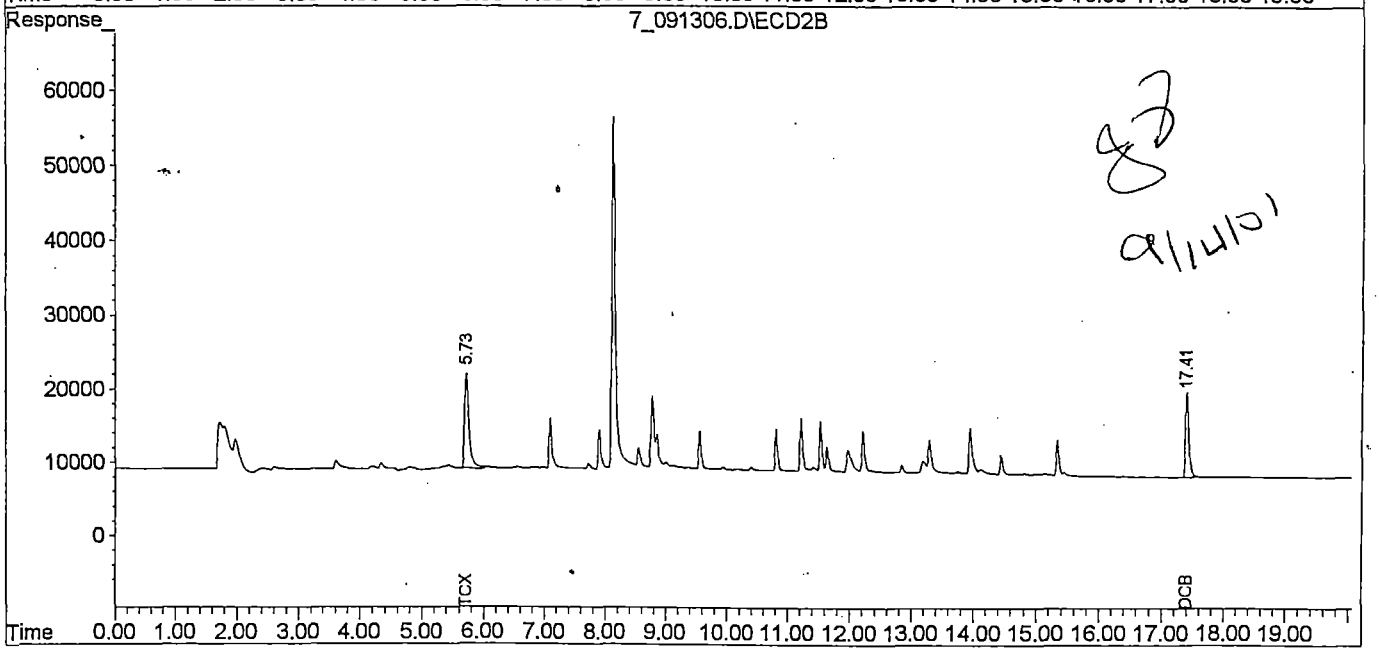
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091306.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091306.D\ECD2B.CH
Acq On : 13 Sep 2001 10:33 Operator: SA
Sample : BL0816SE *PBLKSE * Inst : HP_07
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 8:50 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





87
9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091306.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091306.D\ECD2B.CH
Acq On : 13 Sep 2001 10:33 Operator: SA
Sample : BL0816SE *PBLKSE * Inst : HP_07
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 8:50 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	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	5.82	5.73	516922	664495	4.239	4.268
	Spiked Amount 6.667			Recovery	=	63.59%	64.02%
22)	S DCB	16.89	17.41	368468	430672	5.807	5.953
	Spiked Amount 6.667			Recovery	=	87.11%	89.30%

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.

PIBLK75

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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: 09/13/01

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.

PIBLK75

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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: 09/13/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

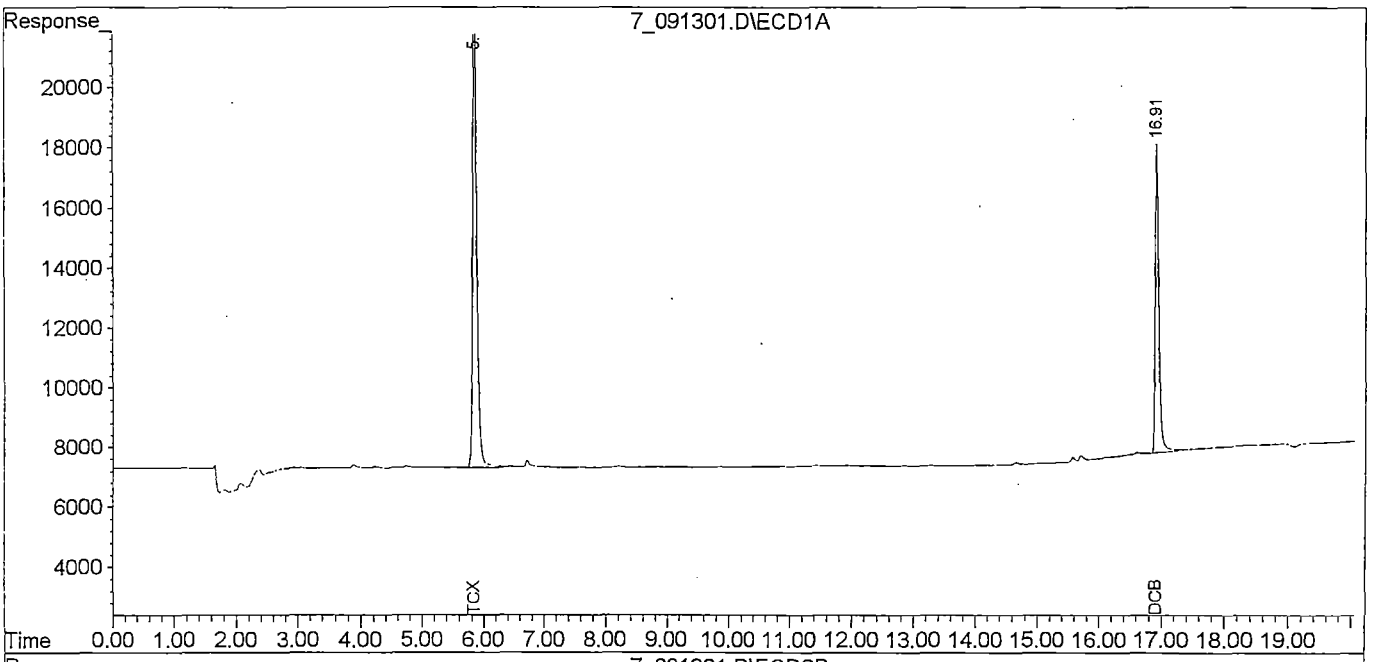
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

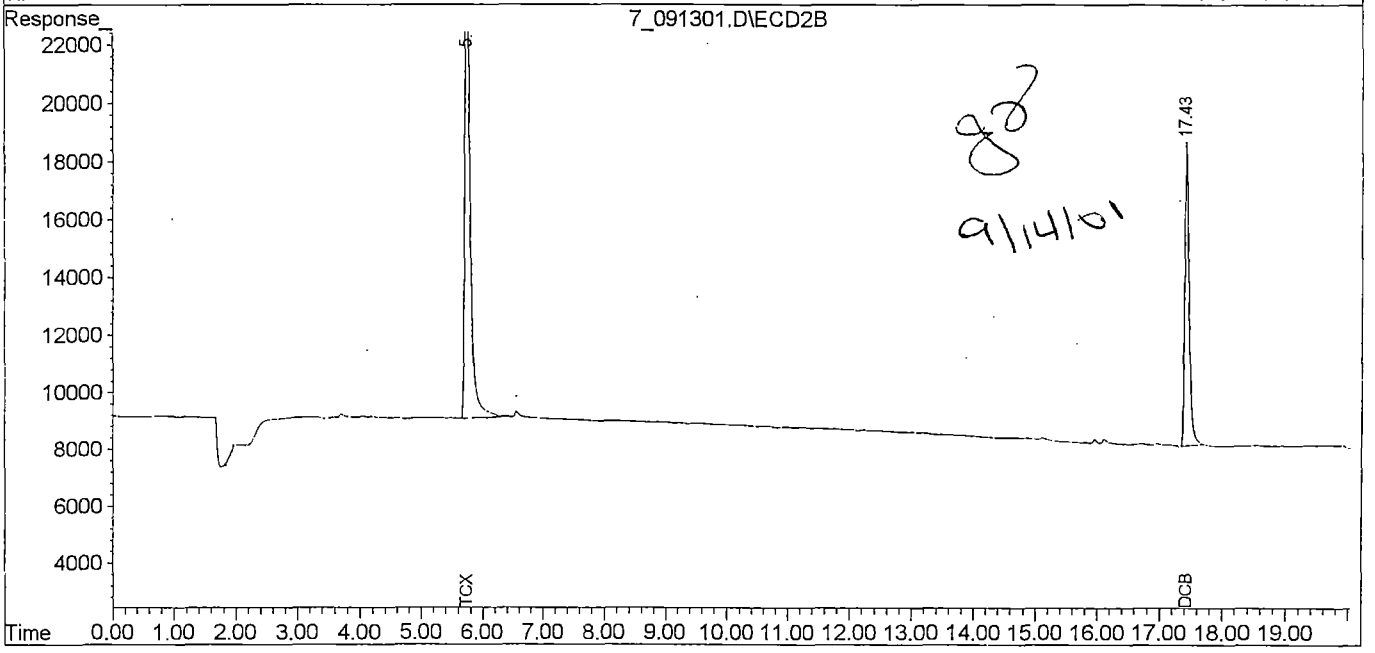
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091301.D\ECD1A.CH Vial: 1
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091301.D\ECD2B.CH
Acq On : 13 Sep 2001 8:30 Operator: SA
Sample : PIBLK75 Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 9:21 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





gg
9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091301.D\ECD1A.CH Vial: 1
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091301.D\ECD2B.CH
Acq On : 13 Sep 2001 8:30 Operator: SA
Sample : PIBLK75 Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 9:21 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 : Thu Sep 13 09:22:16 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	5.84f	5.74	744506	1023559	18.3	19.7
22)	S DCB	16.91	17.43	427178	498153	20.2	20.7
	Target Compounds:						

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK77

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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: 09/13/01

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.

PIBLK77

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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: 09/13/01

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

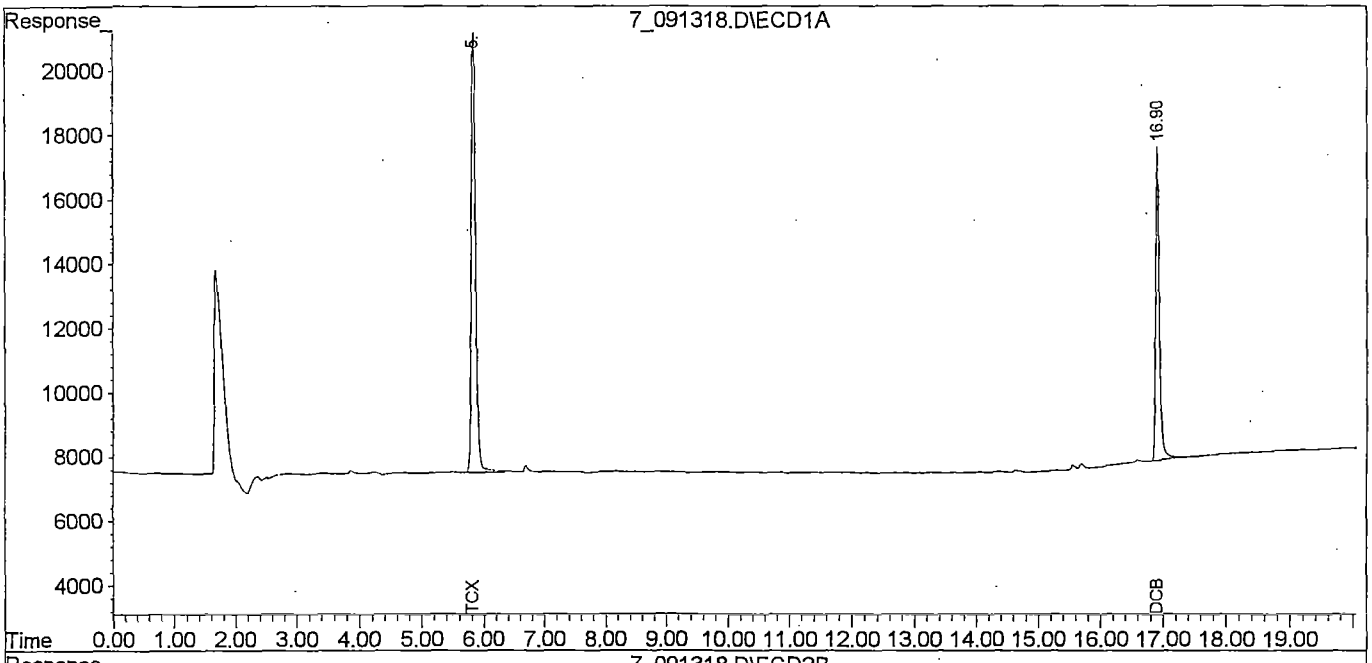
FORM I PCB

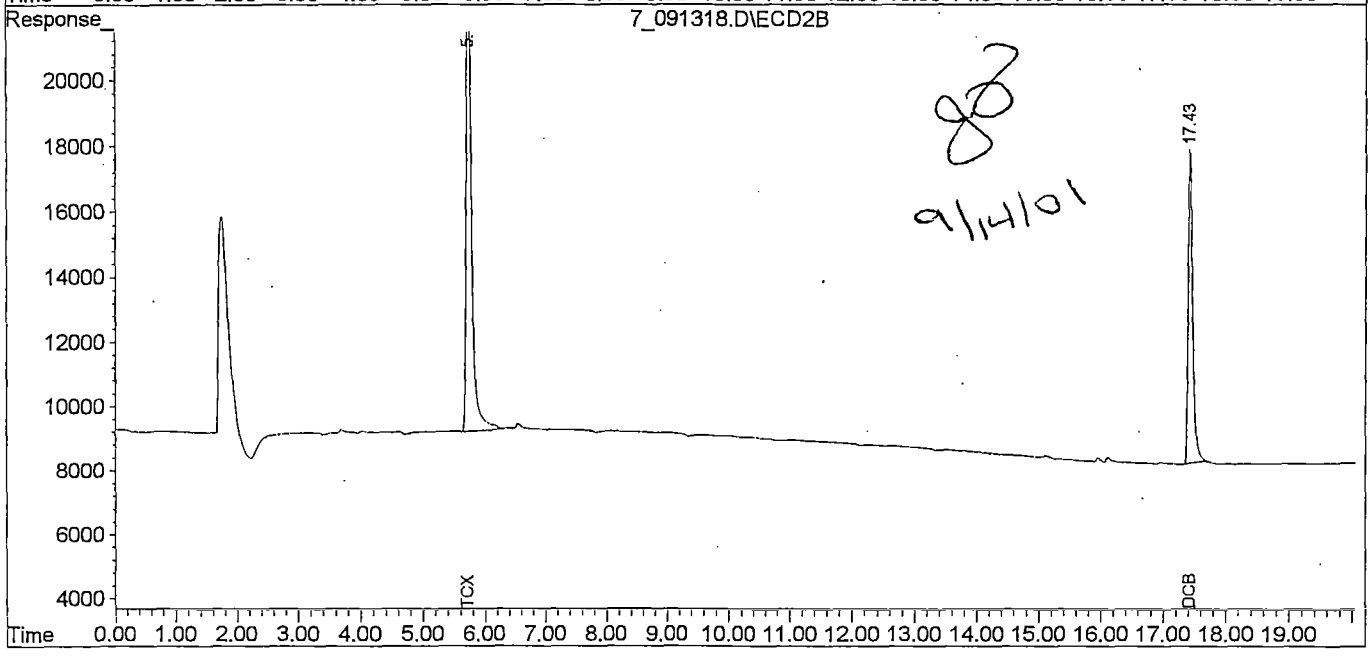
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091318.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091318.D\ECD2B.CH
Acq On : 13 Sep 2001 15:25 Operator: SA
Sample : PIBLK77 Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 17:22 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_091318.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091318.D\ECD2B.CH
Acq On : 13 Sep 2001 15:25 Operator: SA
Sample : PIBLK77 Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 13 17:22 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 : Thu Sep 13 17:27:06 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	709148	941767	17.4	18.1
22)	S DCB	16.90	17.43	408851	482990	19.3	20.0

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.

PIBLK78

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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: 09/13/01

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.

PIBLK78

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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: 09/13/01

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

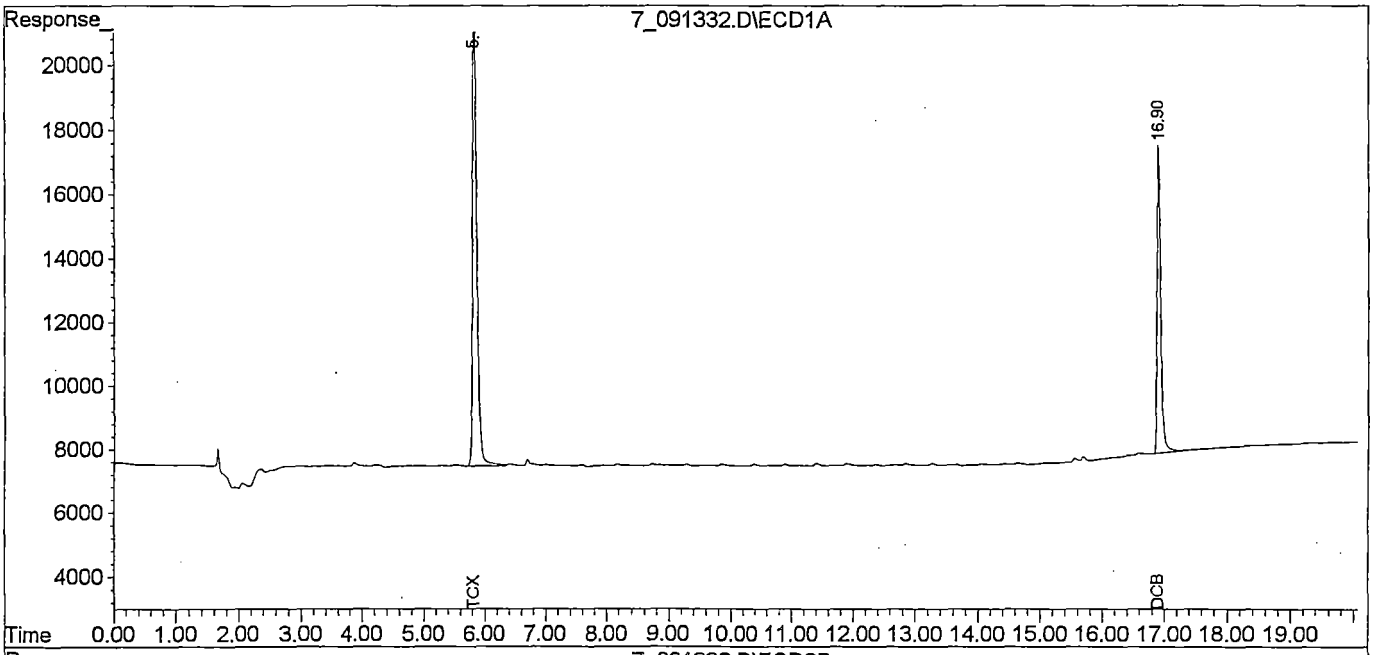
FORM I PCB

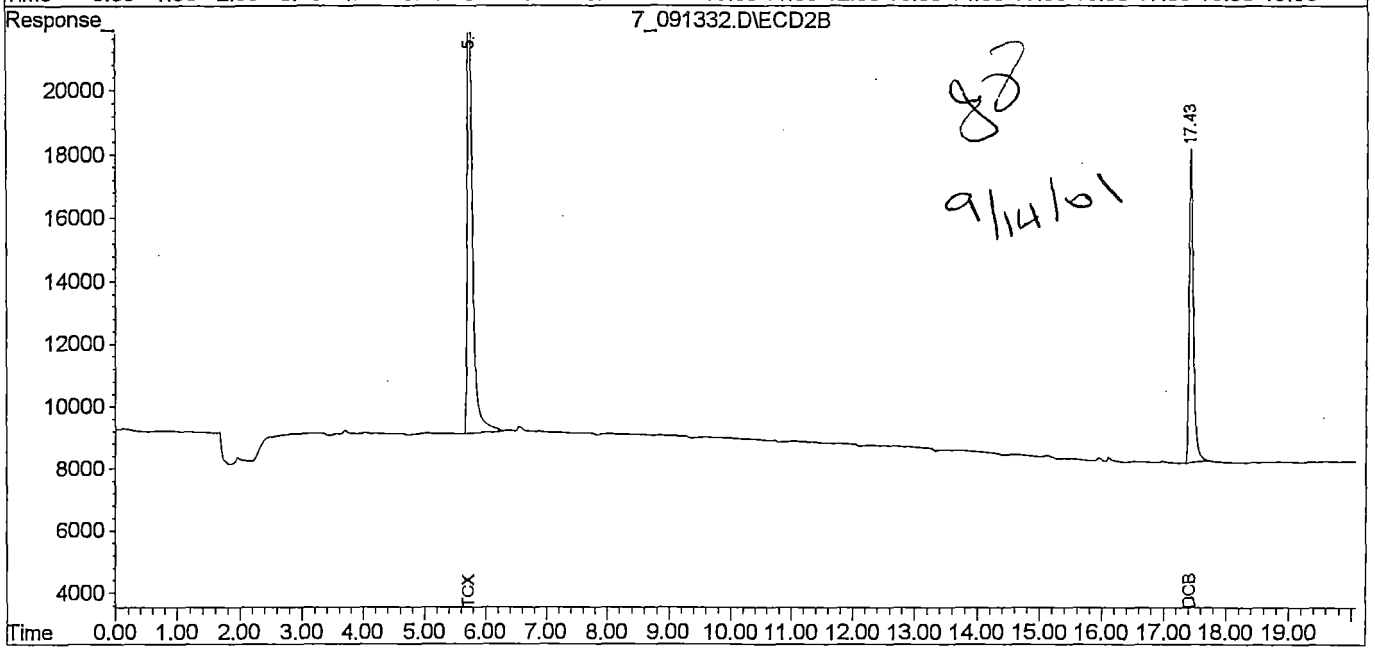
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091332.D\ECD1A.CH Vial: 32
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091332.D\ECD2B.CH
Acq On : 13 Sep 2001 22:08 Operator: SA
Sample : PIBLK78 Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 6:54 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





88
9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091332.D\ECD1A.CH Vial: 32
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091332.D\ECD2B.CH
Acq On : 13 Sep 2001 22:08 Operator: SA
Sample : PIBLK78 Inst : HP_07
Misc : 5-131-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 6:54 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 : Fri Sep 14 07:05:10 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	699204	920316	17.2	17.7
22)	S DCB	16.90	17.43	397435	468603	18.8	19.4
	Target Compounds:						

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

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK79

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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.: E02M5

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

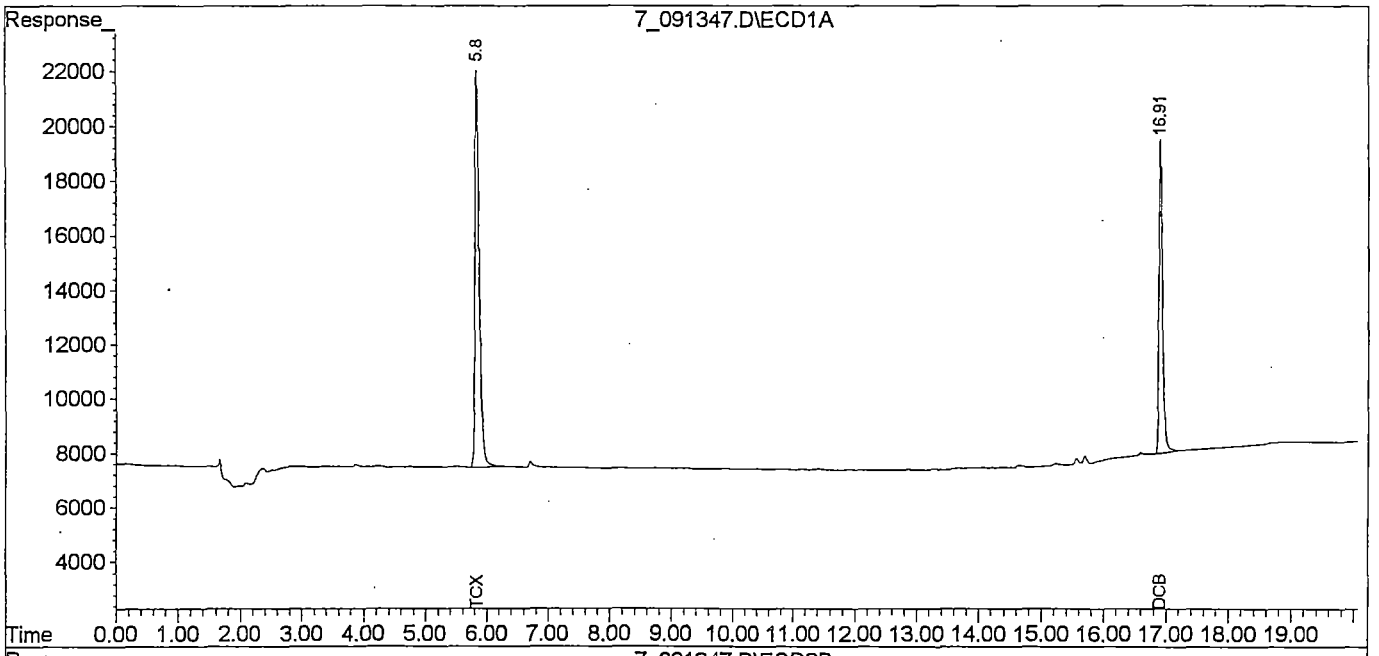
FORM I PCB

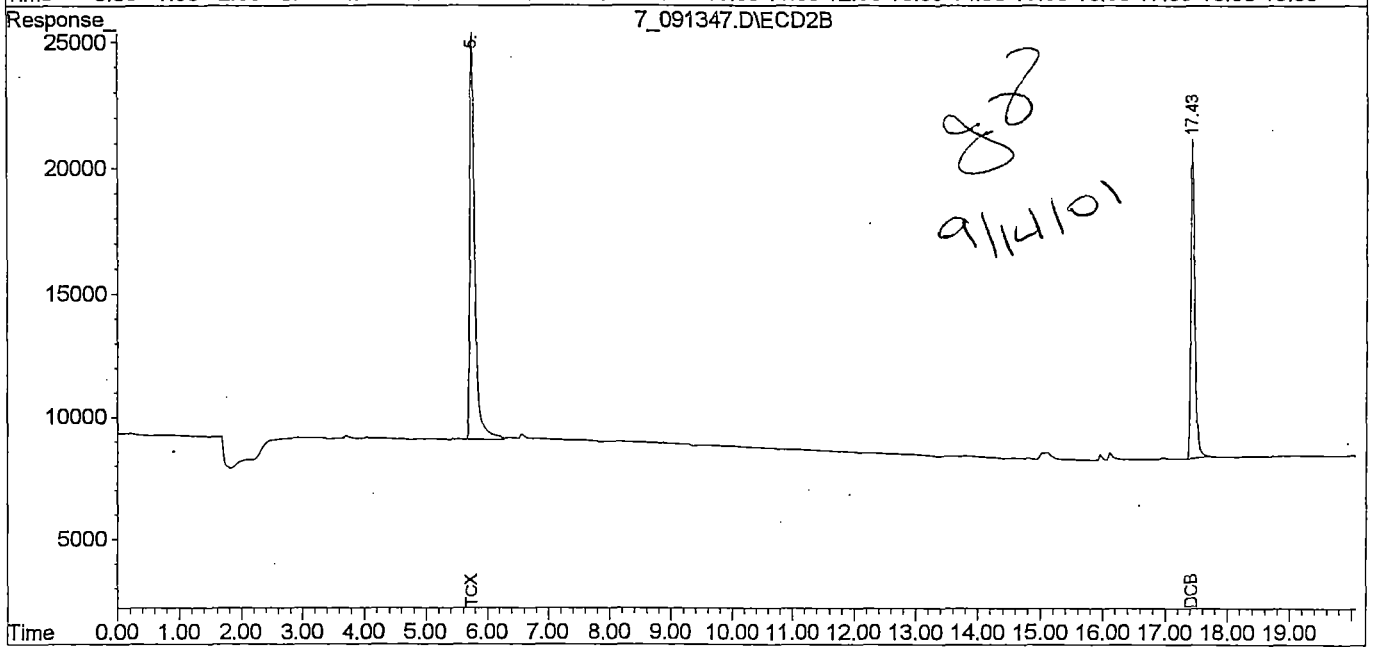
Chromatographic Report

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





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.

PIBLK7G

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

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.: E02M5

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

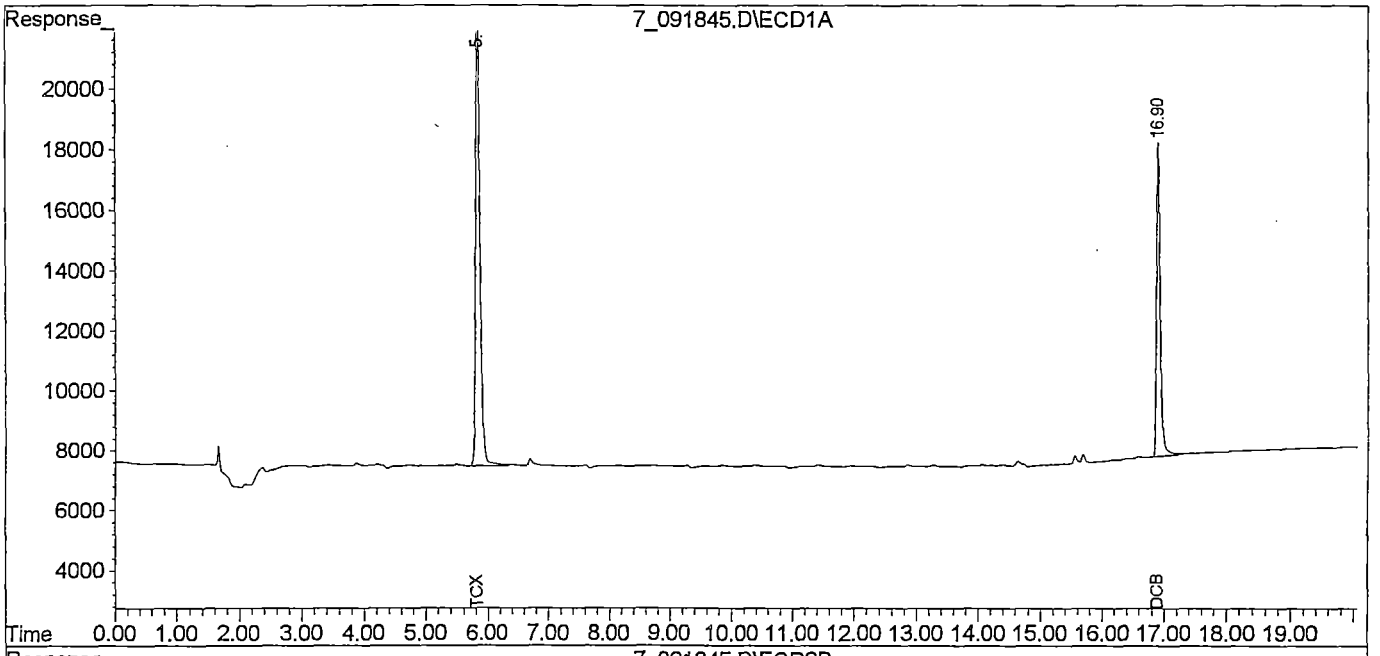
FORM I PCB

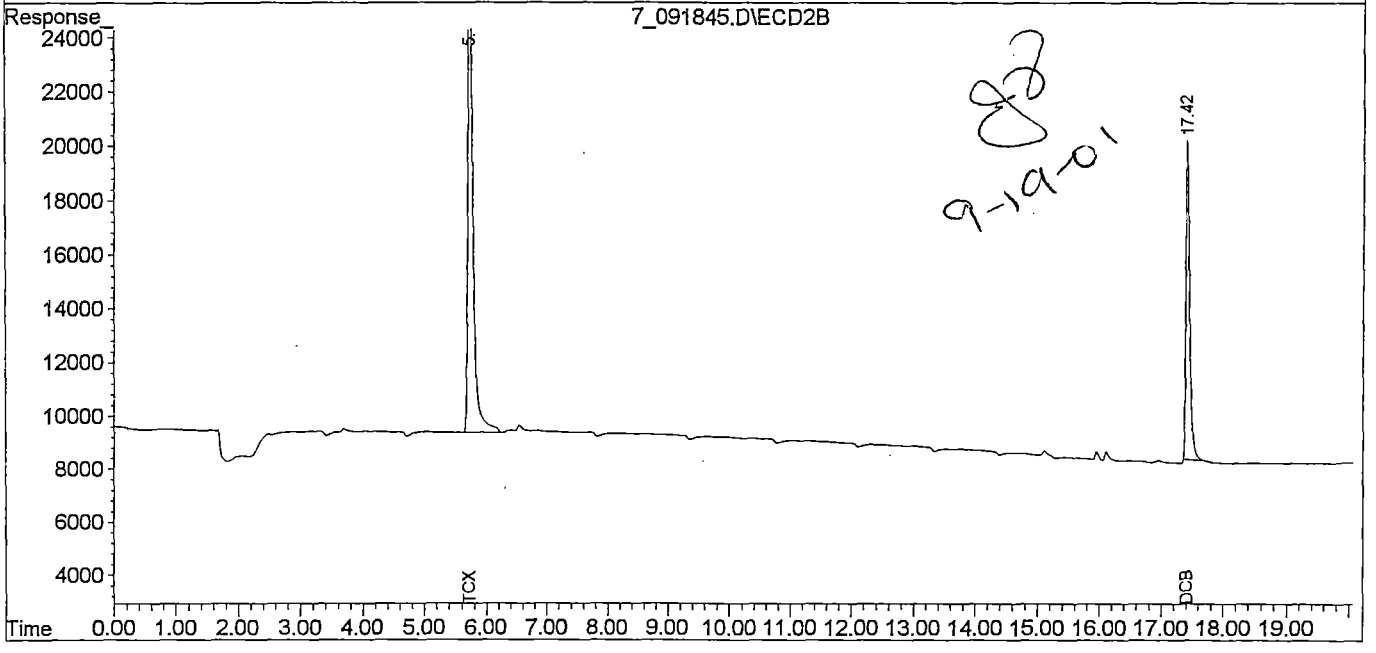
Chromatographic Report

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





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.: E02M5

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.: E02M5

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

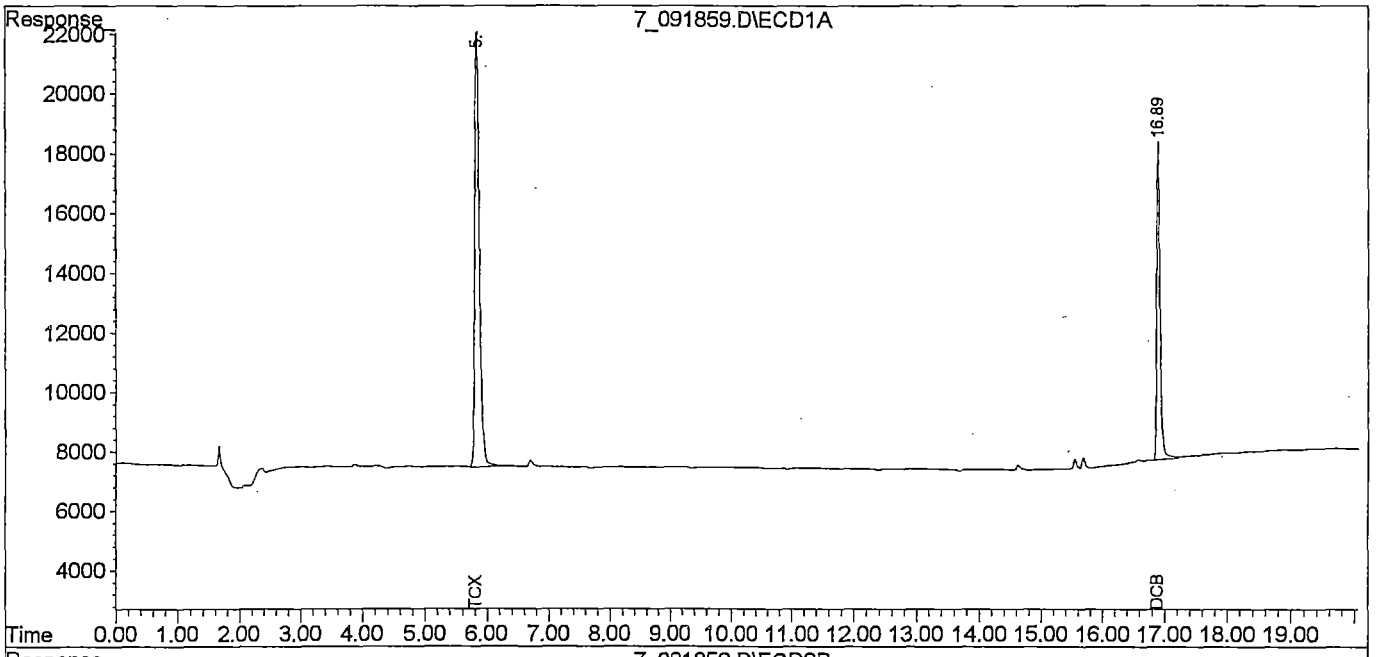
FORM I PCB

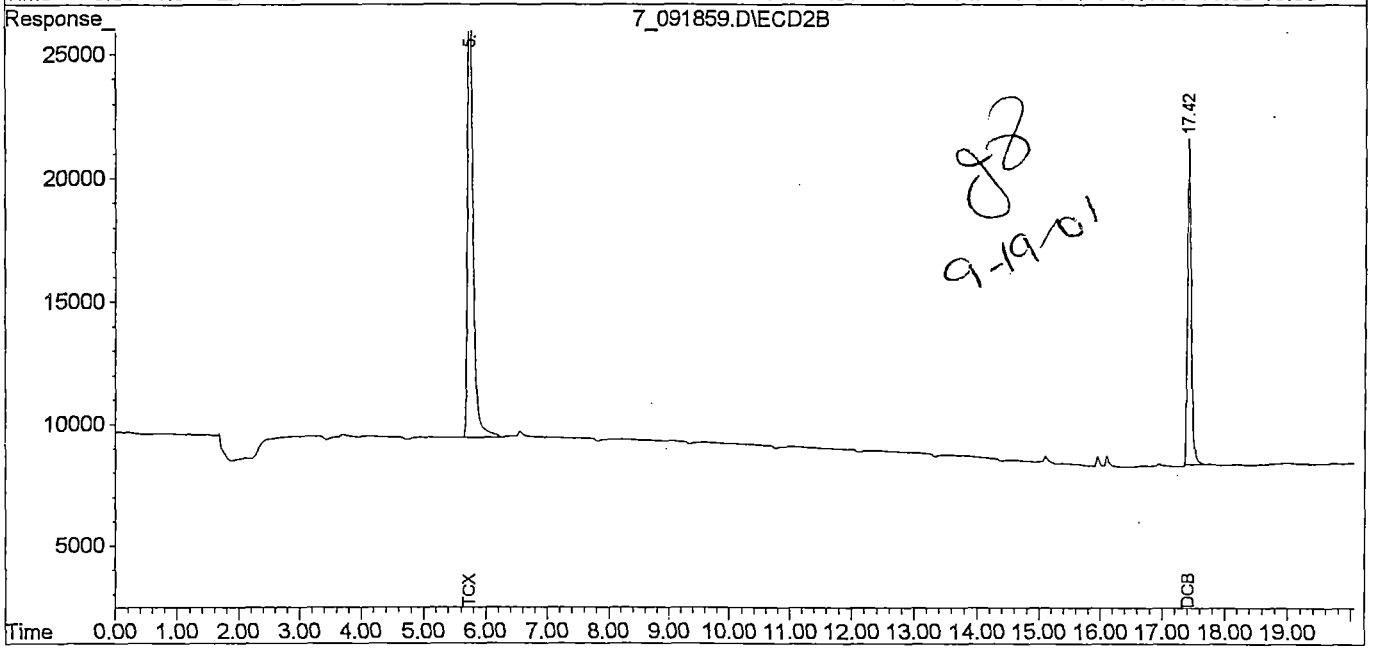
Chromatographic Report

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





gB
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.: E02M5

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.: E02M5

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

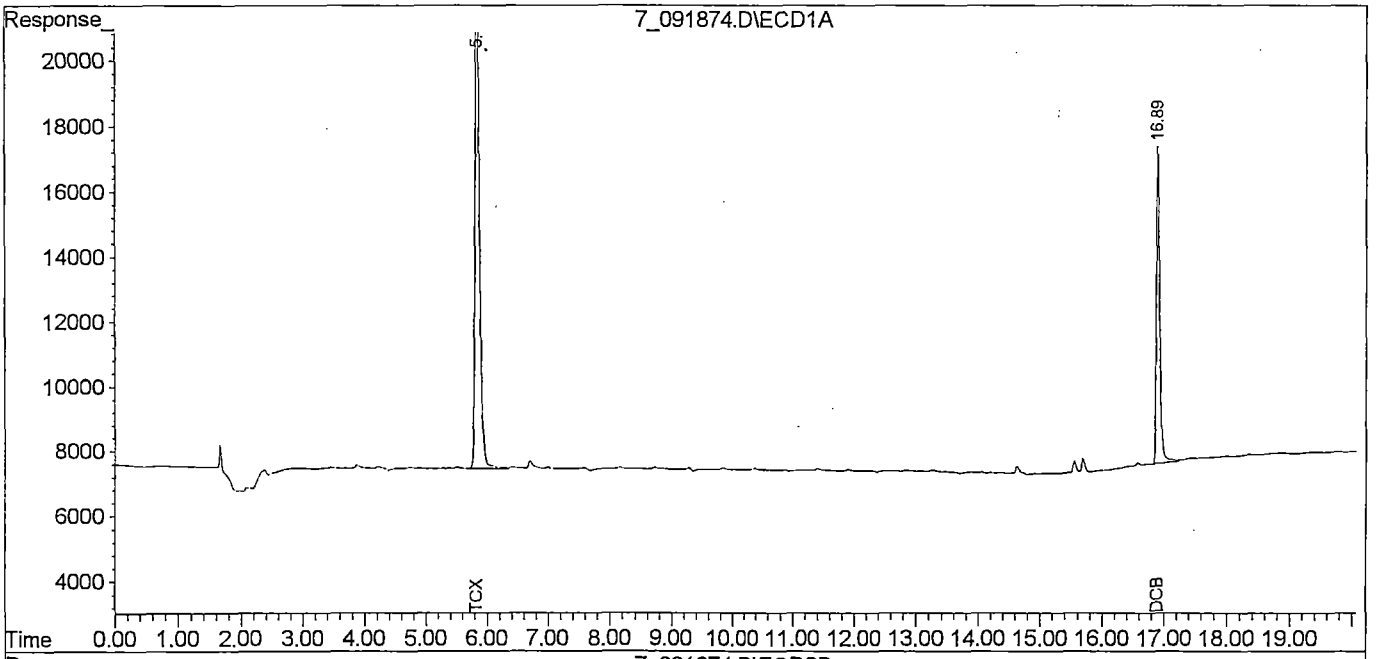
FORM I PCB

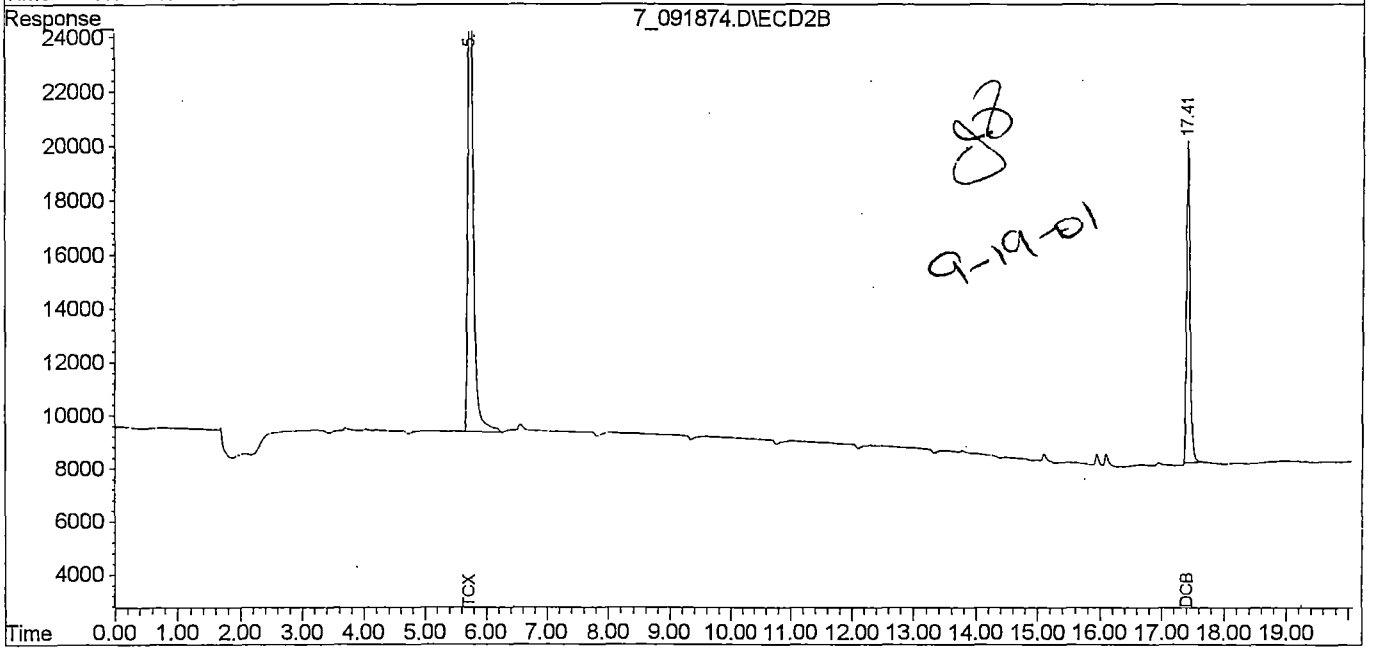
Chromatographic Report

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





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:						

(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.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: LC0816SE

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: 09/13/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	130	
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

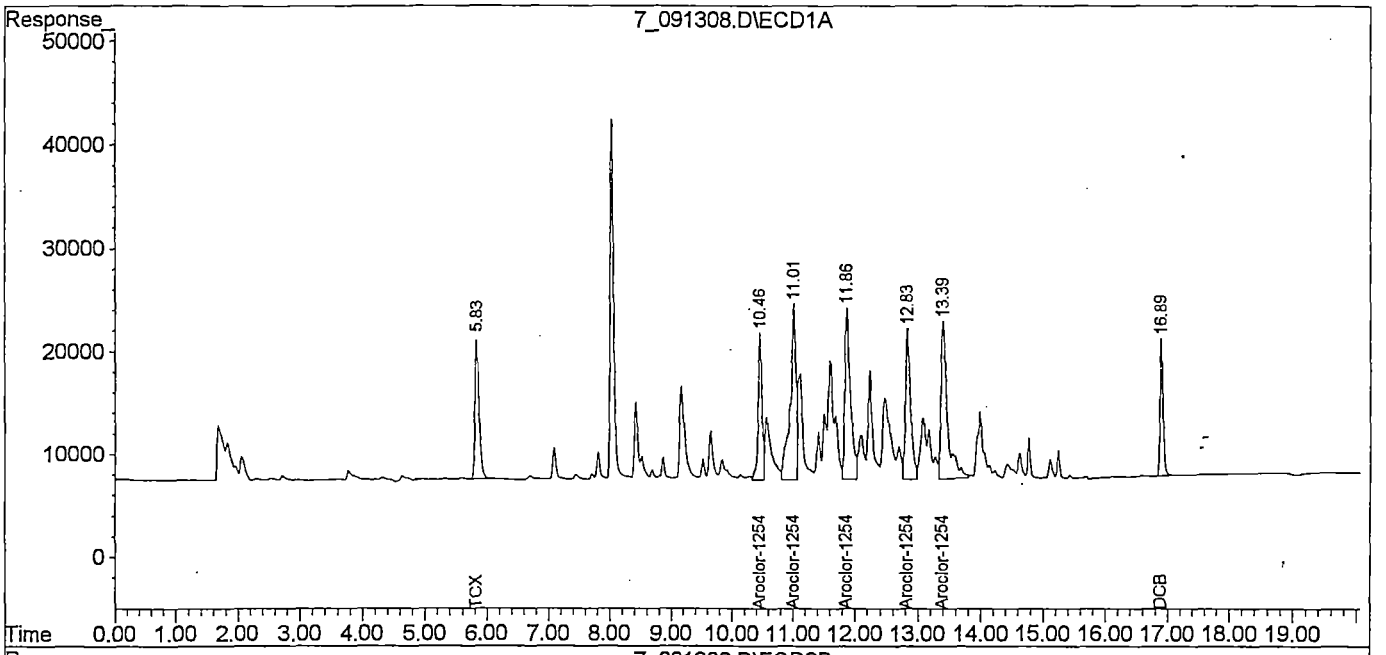
FORM I PCB

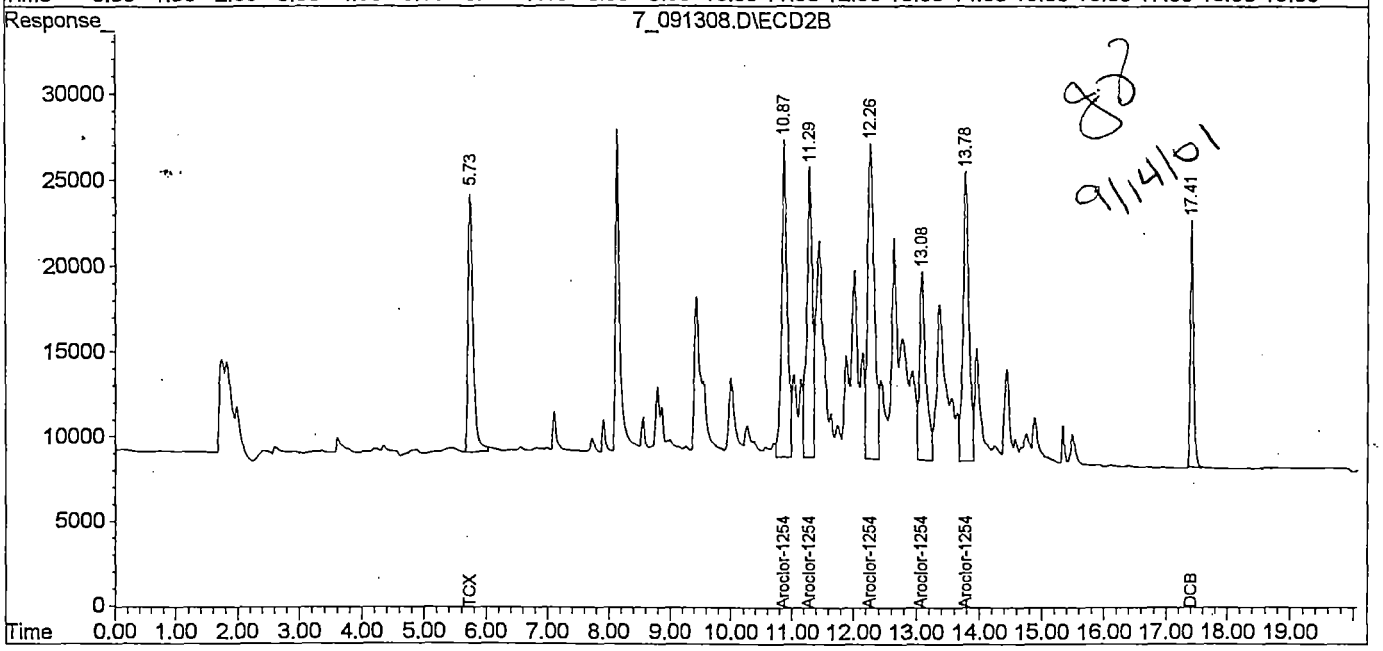
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091308.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091308.D\ECD2B.CH
Acq On : 13 Sep 2001 11:21 Operator: SA
Sample : LC0816SE *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 14 9:11 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





8?
9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091308.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091308.D\ECD2B.CH
Acq On : 13 Sep 2001 11:21 Operator: SA
Sample : LC0816SE *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 14 9:11 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

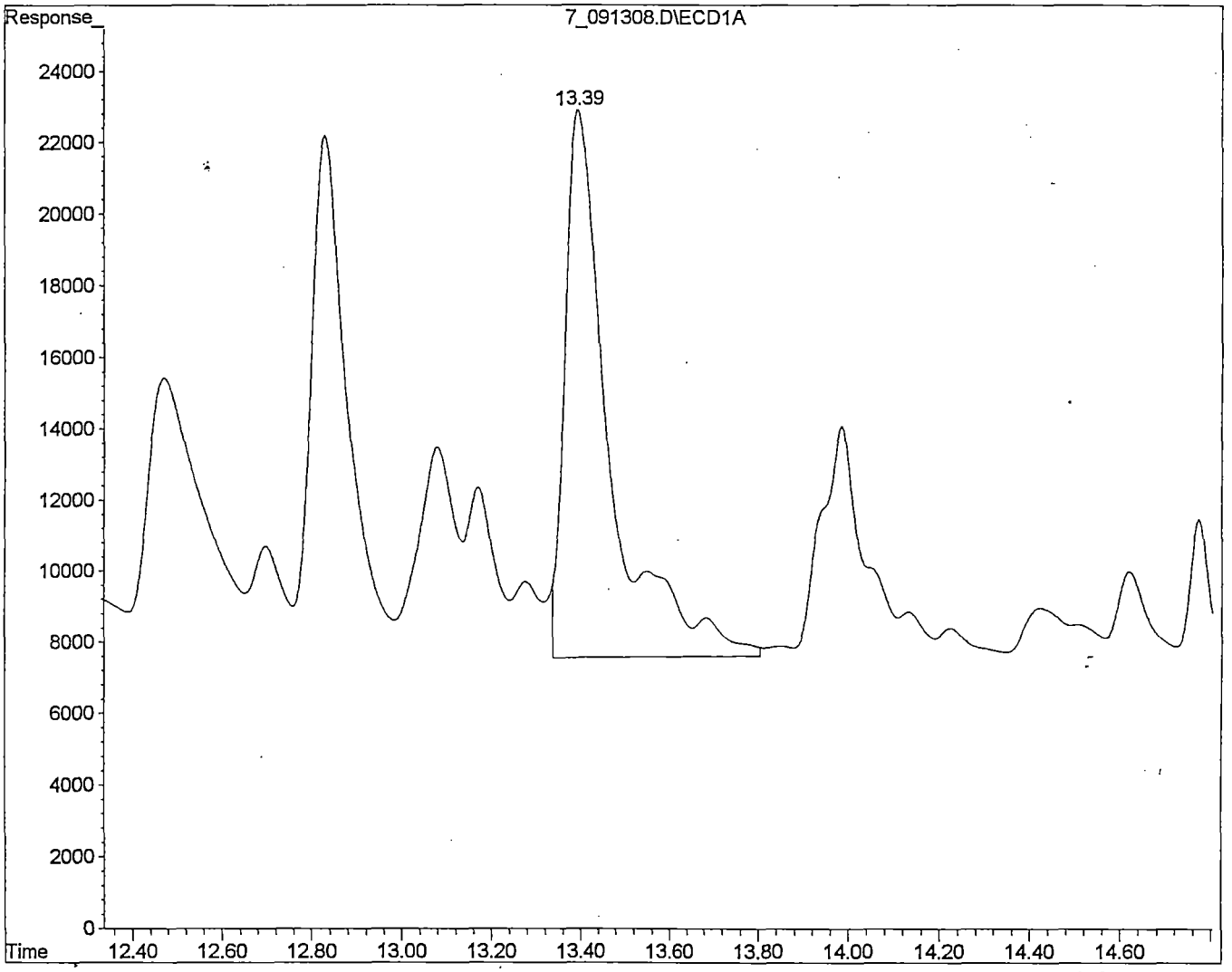
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.83	5.73	642588	846100	5.270	5.434	
	Spiked Amount 6.667			Recovery	=	79.05%	81.51%	
22)	S DCB	16.89	17.41	453384	525379	7.145	7.262	
	Spiked Amount 6.667			Recovery	=	107.18%	108.93%	
	Target Compounds:							
12)	L6 Aroclor-1254	10.46	10.87	628831	1160259	129.1	144.4	
	L6 Aroclor-1254 {2}	11.02	11.29	1135766	1086205	144.3	167.9	
14)	L6 Aroclor-1254 {3}	11.86	12.26	1034996	1396130	129.2	110.4	
15)	L6 Aroclor-1254 {4}	12.83	13.08	829055	782825	135.7	124.9	
16)	L6 Aroclor-1254 {5}	13.39	13.78	1087631	1109756	134.3m	98.4	#
	Sum Aroclor-1254			4716278	5535175	672.7	646.0	
	Average Aroclor-1254					134.542	129.200	

ok 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_13_01\7_091308.D
Date Acquired: 13 Sep 2001 11:21
Inst: HP_07 Operator ID: SA
Name: LC0816SE *ELCS1 *
Misc: **30G/5.0ML*0
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 9:11 2001 Quant Results File: XPCBI12.RES



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Aroclor-1254 {5} 13.39min area: 1087631 m

Integration Time Range: 13.34 - 13.80

F:\HPCHEM\HP\7\DATA\09_13_01\7_091308.D
Report generated: Fri Sep 14 09:19:24 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.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: LD0816SE

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: 09/13/01

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	100	
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

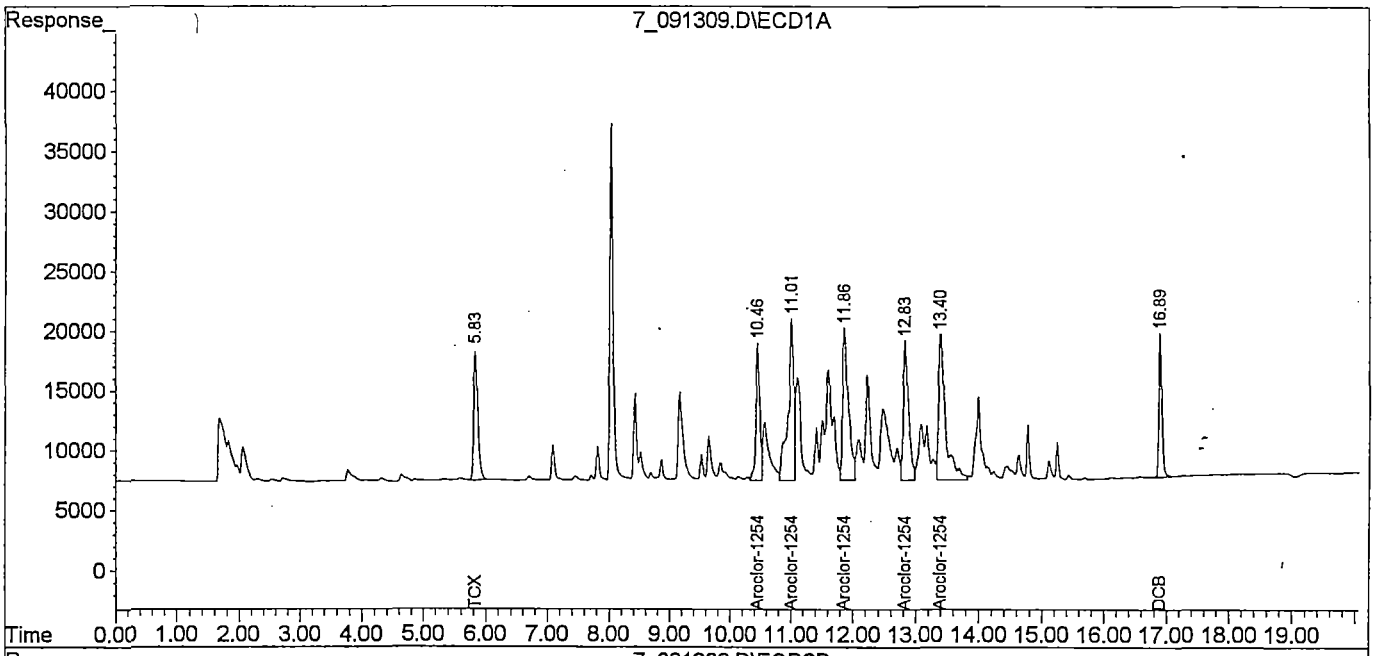
FORM I PCB

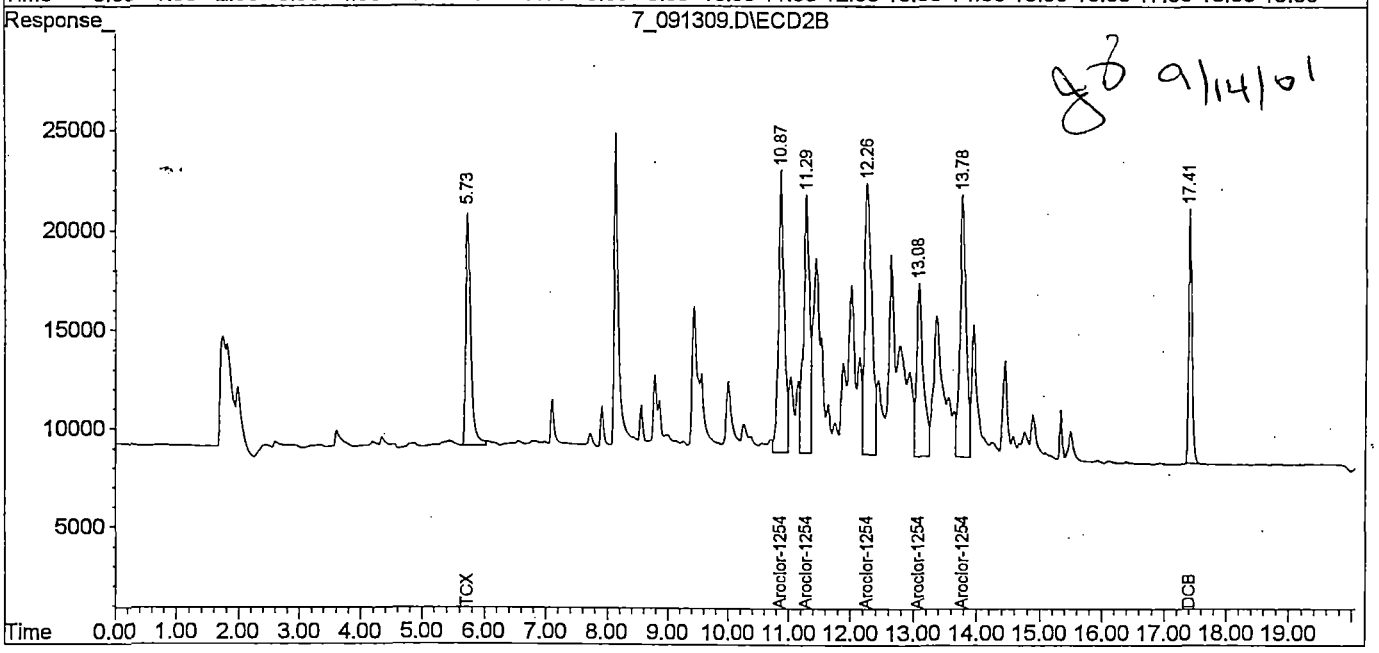
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091309.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091309.D\ECD2B.CH
Acq On : 13 Sep 2001 11:46 Operator: SA
Sample : LD0816SE *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 14 9:12 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





gb 9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091309.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091309.D\ECD2B.CH
Acq On : 13 Sep 2001 11:46 Operator: SA
Sample : LD0816SE *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 14 9:12 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	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.83	5.73	492931	645095	4.043	4.143	
	Spiked Amount 6.667			Recovery	=	60.65%	62.15%	
22)	S DCB	16.89	17.41	407818	468028	6.427	6.469	
	Spiked Amount 6.667			Recovery	=	96.41%	97.04%	
	Target Compounds:							
12)	L6 Aroclor-1254	10.46	10.87	489957	899453	100.6	111.9	
	L6 Aroclor-1254 {2}	11.01	11.29	900044	870024	114.3	134.5	
14)	L6 Aroclor-1254 {3}	11.86	12.26	806760	1095006	100.7	86.6	
15)	L6 Aroclor-1254 {4}	12.83	13.08	679004	644399	111.2	102.8	
16)	L6 Aroclor-1254 {5}	13.40	13.78	894721	889574	110.5m	78.9	#
	Sum Aroclor-1254			3770486	4398455	537.4	514.7	
	Average Aroclor-1254					107.472	102.941	

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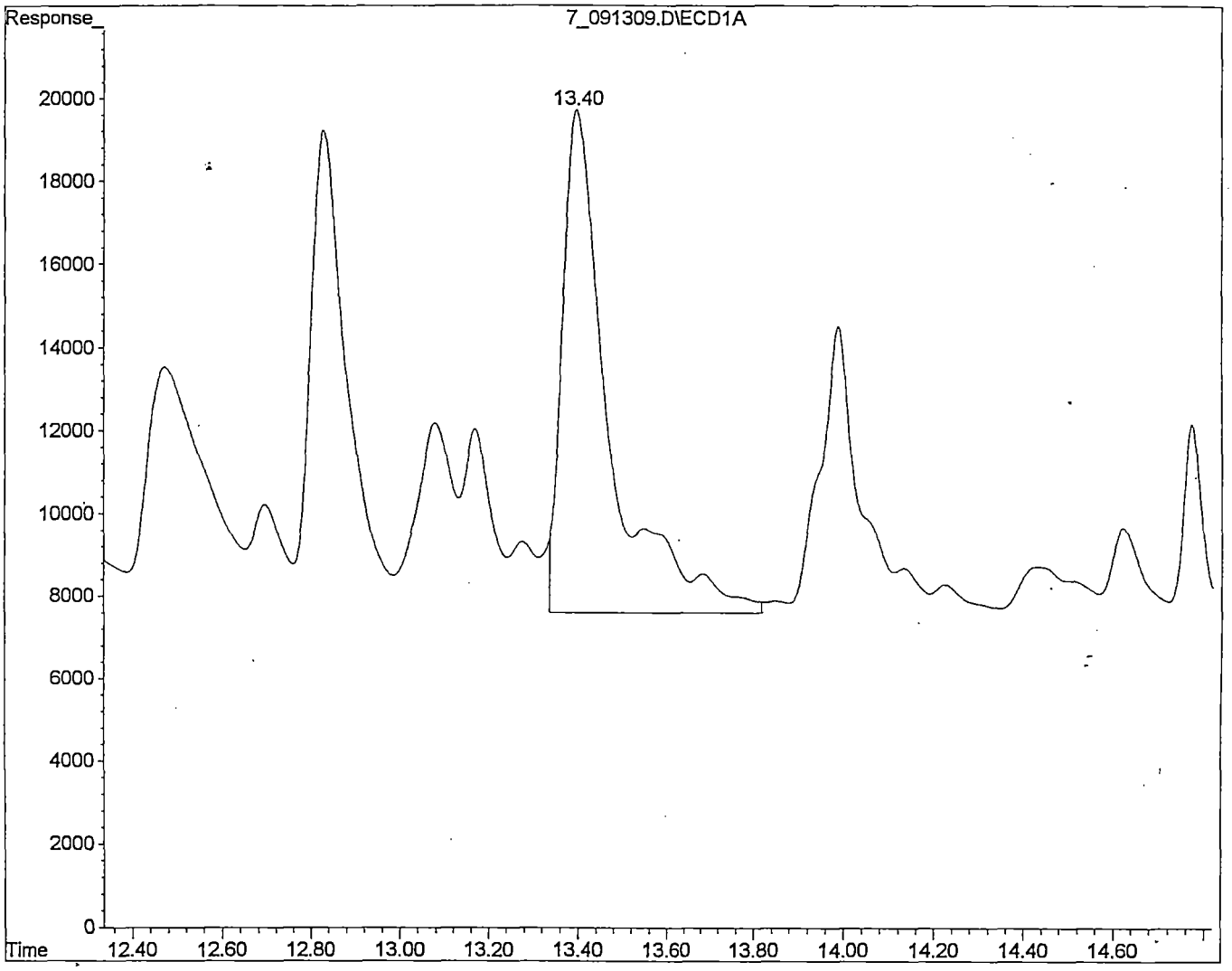
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091309.D
Date Acquired: 13 Sep 2001 11:46
Inst: HP_07 Operator ID: SA
Name: LD0816SE *ELCS2 *
Misc: **30G/5.0ML*0
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 9:12 2001 Quant Results File: XPCBI12.RES



Aroclor-1254 {5} 13.40min area: 894721 m

Integration Time Range: 13.34 - 13.82

F:\HPCHEM\HP\7\DATA\09_13_01\7_091309.D
Report generated: Fri Sep 14 09:19:26 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02N8MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47292.12MS

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

% Moisture: 13 decanted: (Y/N) __ Date Received: 08/16/01

Extraction: (SepF/Cont/Sonc) N 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	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	170	P
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	180	
11096-82-5	Aroclor-1260	74	
Surrogate amount spiked		7.56	

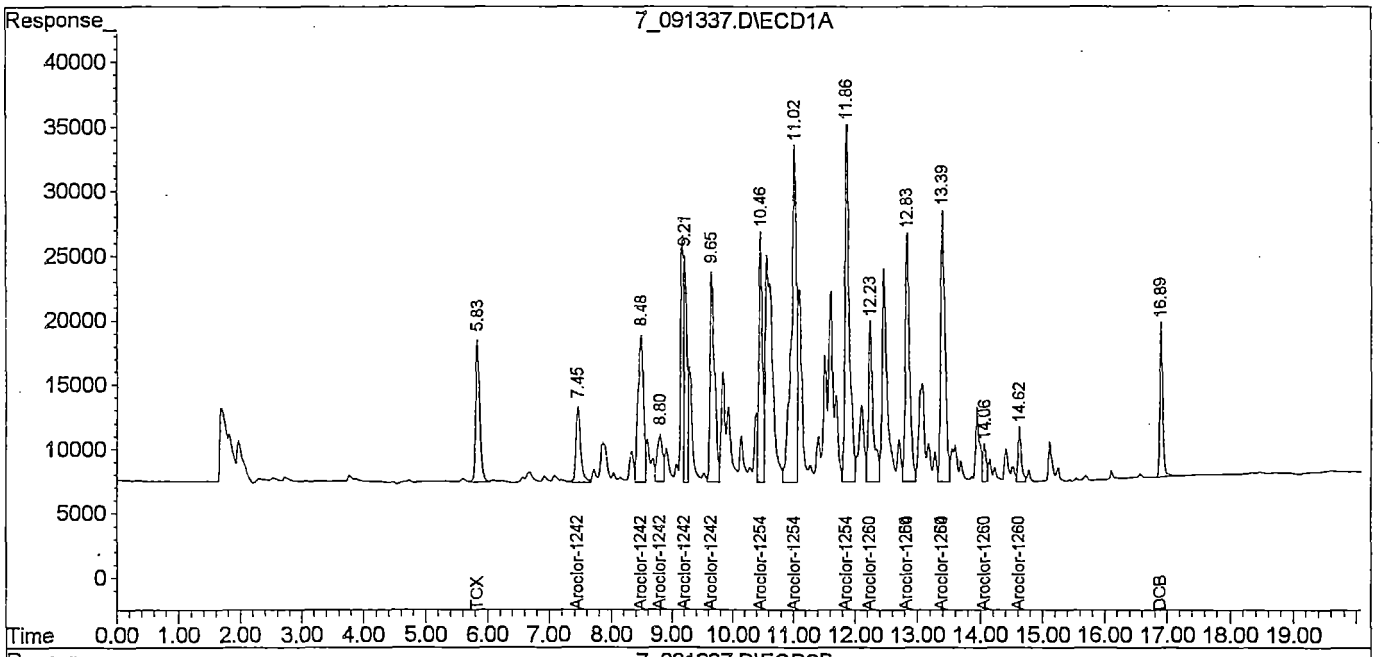
FORM I PCB

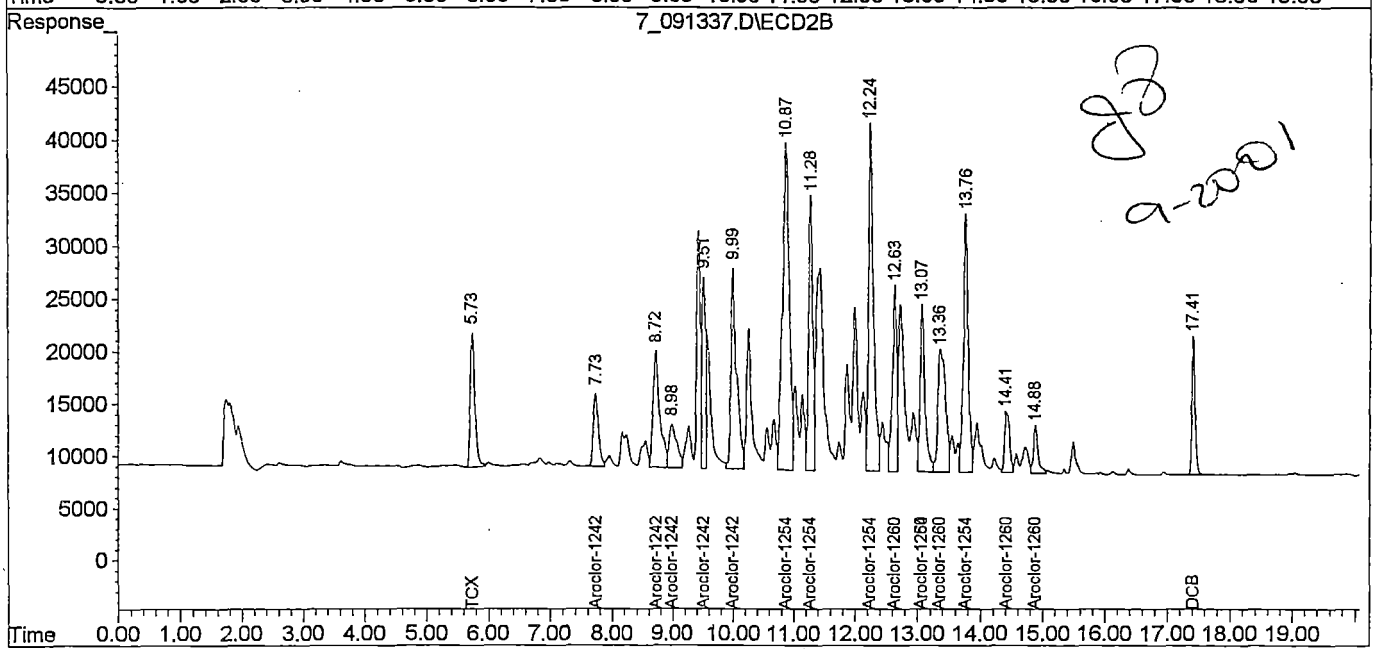
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091337.D\ECD1A.CH Vial: 37
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091337.D\ECD2B.CH
Acq On : 14 Sep 2001 00:08 Operator: SA
Sample : 47292.12MS *E02N8MS * Inst : HP_07
Misc : *EPA*30.4G/5ML*13 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 11:03 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





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091337.D\ECD1A.CH Vial: 37
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091337.D\ECD2B.CH
Acq On : 14 Sep 2001 00:08 Operator: SA
Sample : 47292.12MS *E02N8MS * Inst : HP_07
Misc : *EPA*30.4G/5ML*13 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 11:03 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

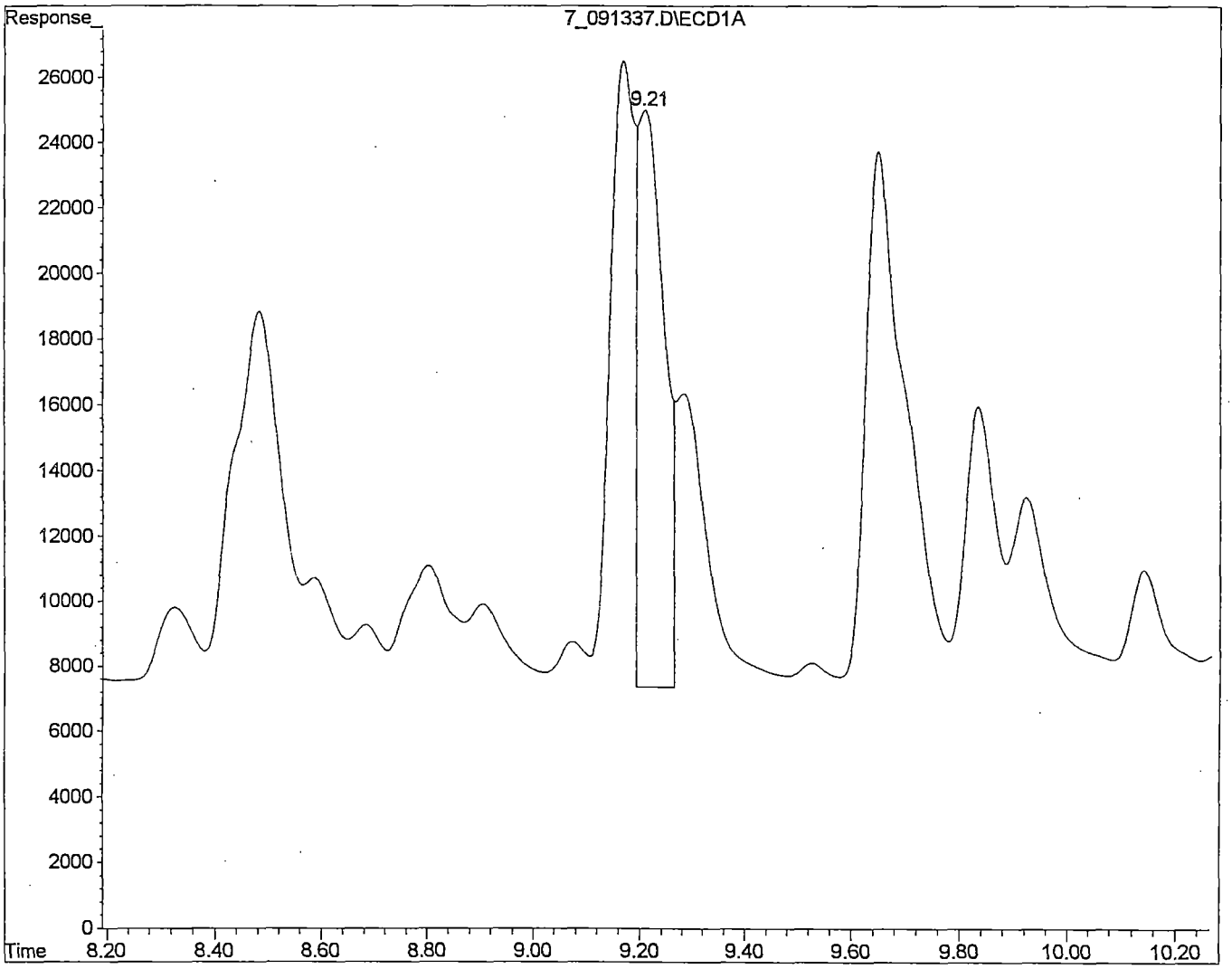
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.83	5.73	516130	668104	4.801	4.867	
	Spiked Amount 7.562			Recovery	=	63.49%	64.36%	
22)	S DCB	16.89	17.41	398854	469253	7.130	7.357	
	Spiked Amount 7.562			Recovery	=	94.29%	97.29%	
	Target Compounds:							
7)	L4 Aroclor-1242	7.45	7.73	317956	415678	69.3	67.8	
8)	L4 Aroclor-1242 {2}	8.48	8.72	725719	878952	132.3	147.1	
	L4 Aroclor-1242 {3}	8.80	8.98	222627	376893	76.1	85.6	
10)	L4 Aroclor-1242 {4}	9.21	9.51	604281	812106	284.1m	302.6m	
11)	L4 Aroclor-1242 {5}	9.65	9.99	853361	1220970	267.0	490.4	#
	Sum Aroclor-1242			2723944	3704599	828.9	1093.6	
	Average Aroclor-1242					165.774	218.711	
12)	L6 Aroclor-1254	10.46	10.87	764303	2400325	178.1	338.8	#
13)	L6 Aroclor-1254 {2}	11.02	11.28	1571752	1245943	226.5	218.5	
14)	L6 Aroclor-1254 {3}	11.86	12.24	1298945	1815800	184.0	162.9	
15)	L6 Aroclor-1254 {4}	12.83	13.07	907124	848619	168.5	153.6	
16)	L6 Aroclor-1254 {5}	13.39	13.76	1018689	1301991	142.7	130.9	
	Sum Aroclor-1254			5560813	7612678	899.7	1004.7	
	Average Aroclor-1254					179.932	200.941	
17)	L7 Aroclor-1260	12.24	12.63	620486	842976	102.0	94.4	
18)	L7 Aroclor-1260 {2}	12.83	13.07	907124	848619	90.3	100.2	
19)	L7 Aroclor-1260 {3}	13.39	13.36f	1018689	994621	131.3	129.9	
20)	L7 Aroclor-1260 {4}	14.06	14.41f	100726	334006	29.1	69.5	#
21)	L7 Aroclor-1260 {5}	14.62	14.88	160583	226882	19.8	27.1	#
	Sum Aroclor-1260			2807607	3247105	140.8	159.2	
	Average Aroclor-1260					74.481	84.225	

09.2a.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_13_01\7_091337.D
Date Acquired: 14 Sep 2001 00:08
Inst: HP_07 Operator ID: SA
Name: 47292.12MS *E02N8MS *
Misc: *EPA*30.4G/5ML*13
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 11:03 2001 Quant Results File: XPCBI12.RES



A 9.20.9

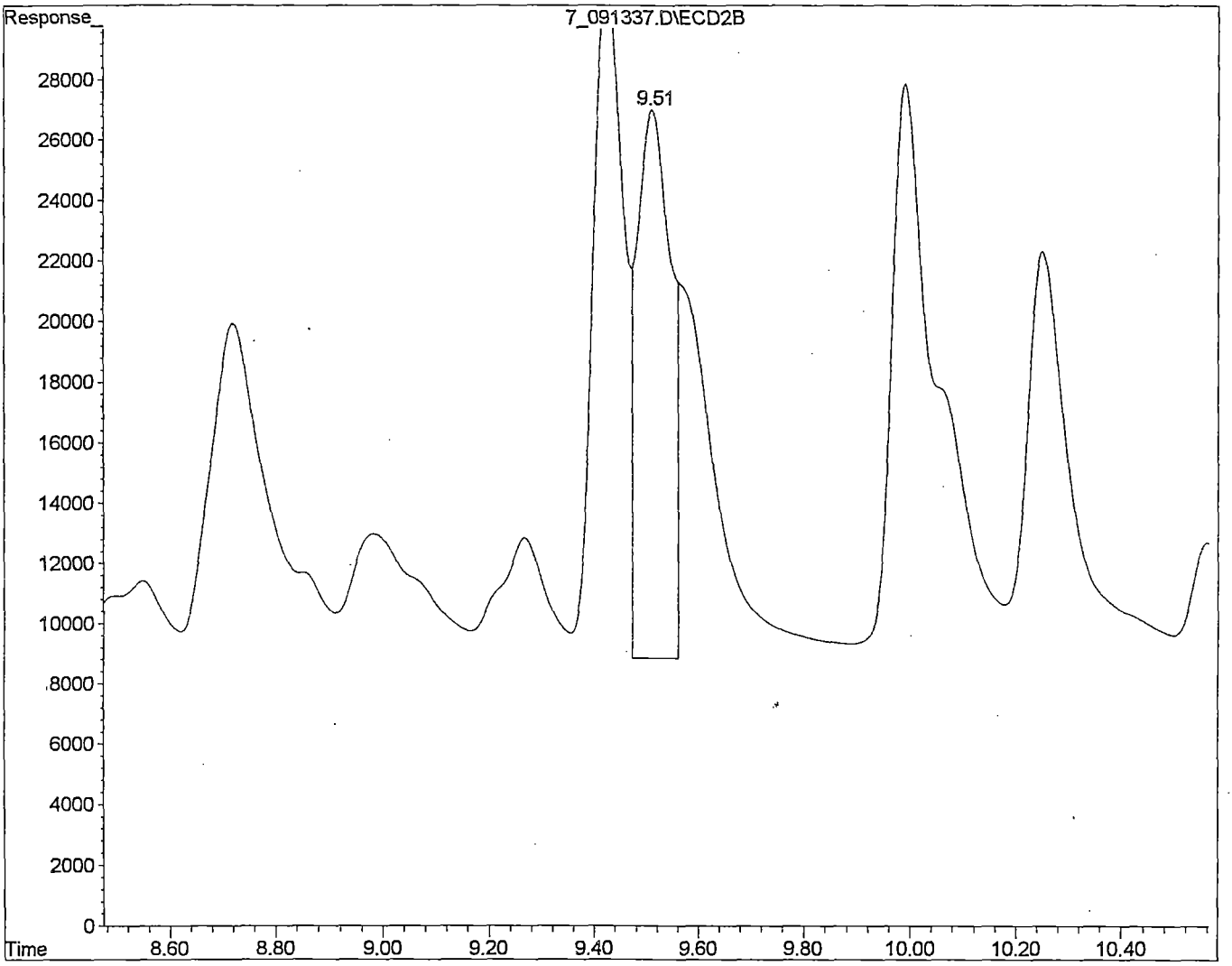
Aroclor-1242 {4} 9.21min area: 604281 m

Integration Time Range: 9.19 - 9.26

F:\HPCHEM\HP\7\DATA\09_13_01\7_091337.D
Report generated: Thu Sep 20 08:55:34 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091337.D
Date Acquired: 14 Sep 2001 00:08
Inst: HP_07 Operator ID: SA
Name: 47292.12MS *E02N8MS *
Misc: *EPA*30.4G/5ML*13
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 11:03 2001 Quant Results File: XPCBI12.RES



A 9-20-01

Aroclor-1242 {4} #2 9.51min area: 812106 m

Integration Time Range: 9.47 - 9.56

F:\HPCHEM\HP\7\DATA\09_13_01\7_091337.D
Report generated: Thu Sep 20 08:55:35 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E02N8MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29602 SDG No.: E02M5

Matrix: (soil/water) SOIL Lab Sample ID: 47292.13MSD

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

% Moisture: 13 decanted: (Y/N) __ Date Received: 08/16/01

Extraction: (SepF/Cont/Sonc) N 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	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	130	
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	170	
11096-82-5	Aroclor-1260	71	
	Surrogate amount spiked	7.59	

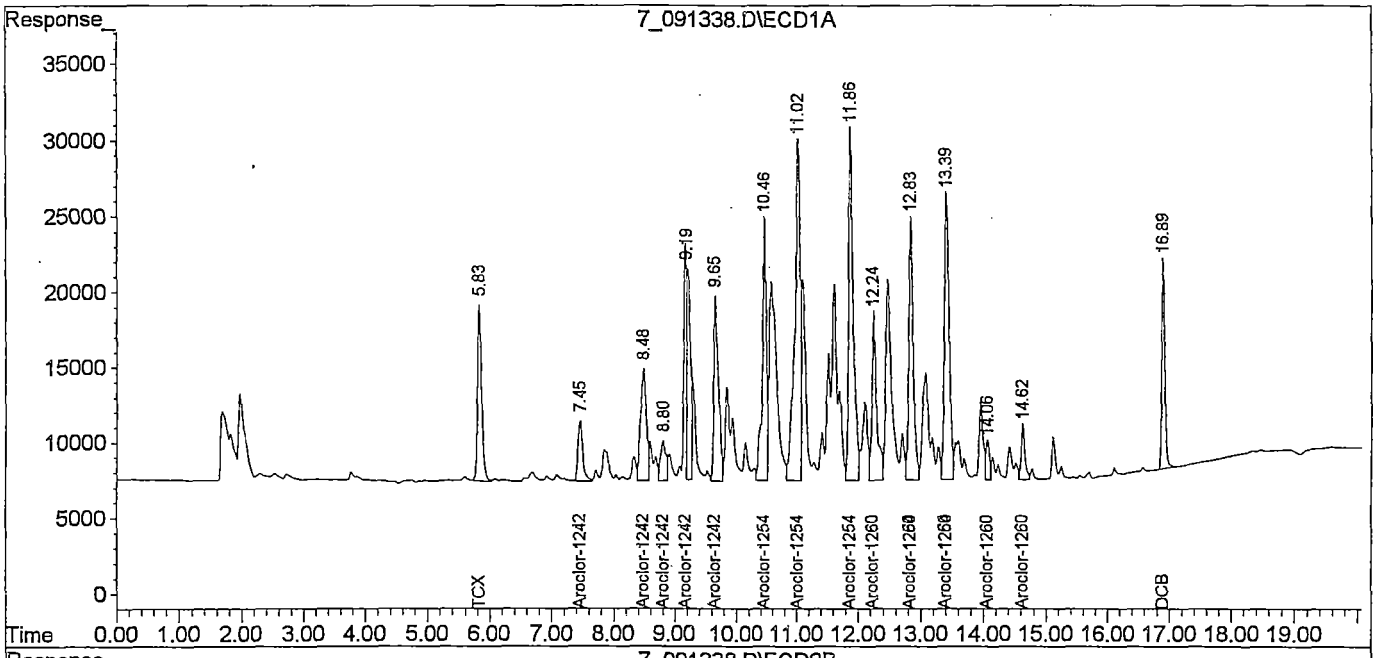
FORM I PCB

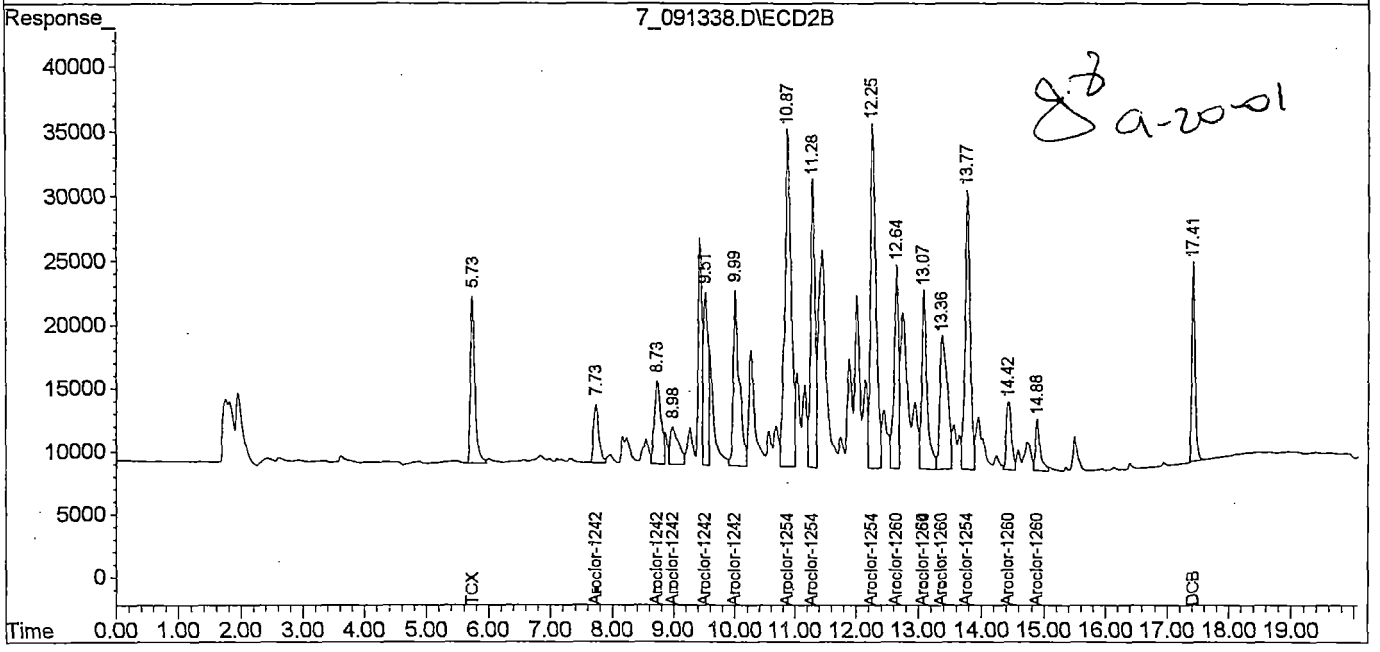
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091338.D\ECD1A.CH Vial: 38
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091338.D\ECD2B.CH
Acq On : 14 Sep 2001 00:32 Operator: SA
Sample : 47292.13MSD *E02N8MSD * Inst : HP_07
Misc : *EPA*30.3G/5ML*13 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 11:05 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





9-20-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091338.D\ECD1A.CH Vial: 38
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091338.D\ECD2B.CH
Acq On : 14 Sep 2001 00:32 Operator: SA
Sample : 47292.13MSD *E02N8MSD * Inst : HP_07
Misc : *EPA*30.3G/5ML*13 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 11:05 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

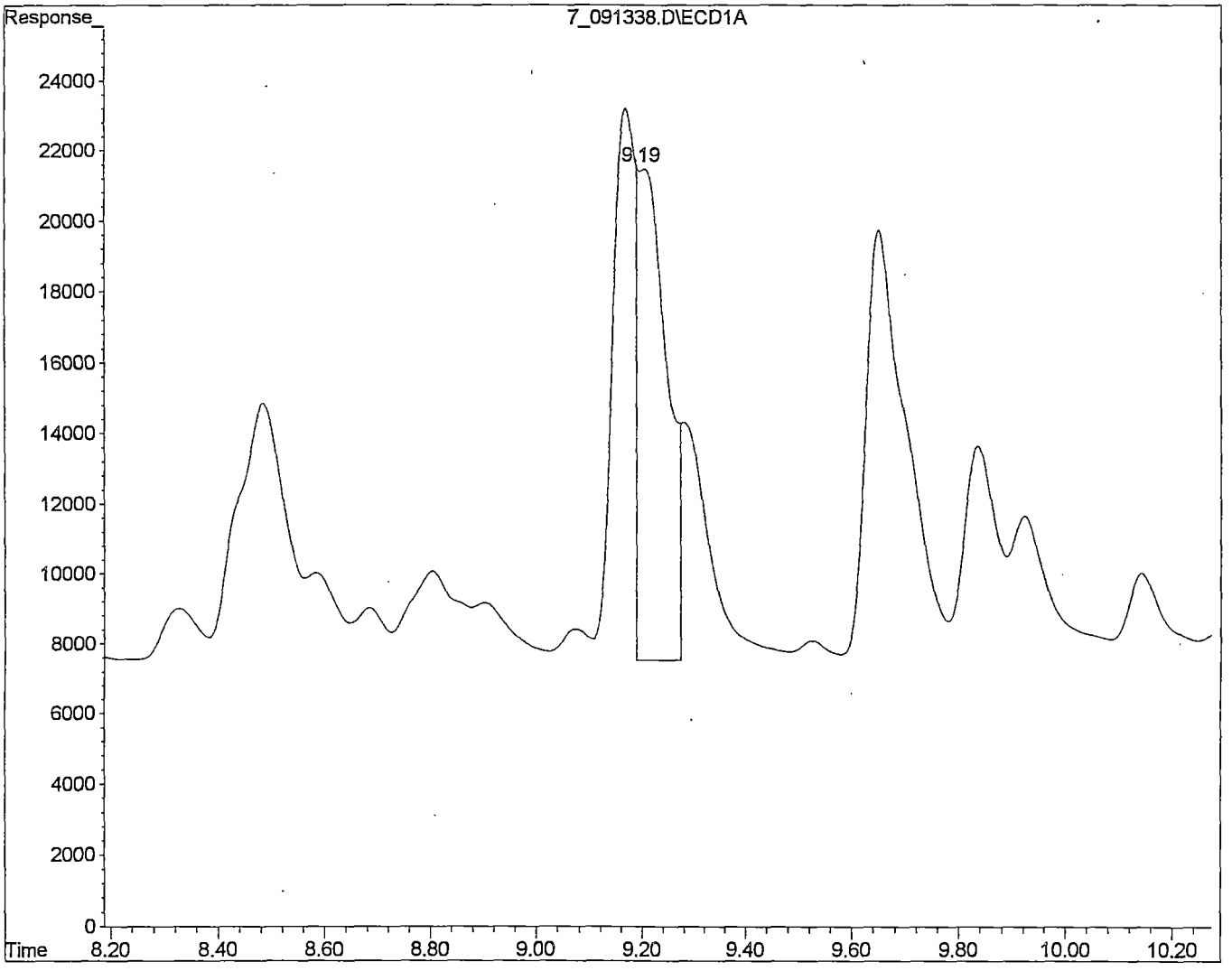
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	5.83	5.73	526569	683166	4.915	4.993	
	Spiked Amount 7.587			Recovery	=	64.78%	65.81%	
22)	S DCB	16.90	17.42	480943	567639	8.626	8.929	
	Spiked Amount 7.587			Recovery	=	113.69%	117.69%	
	Target Compounds:							
7)	L4 Aroclor-1242	7.45	7.73	217722	277972	47.6	45.5	
[illegible]	L4 Aroclor-1242 {2}	8.48	8.72	479922	494291	87.8	83.0	
[illegible]	L4 Aroclor-1242 {3}	8.80	8.98	168696	288466	57.9	65.8	
10)	L4 Aroclor-1242 {4}	9.19	9.51	545124	656435	257.1m	245.4m	
11)	L4 Aroclor-1242 {5}	9.65	9.99	655883	922650	205.9	371.8	#
	Sum Aroclor-1242			2067346	2639814	656.3	811.5	
	Average Aroclor-1242					131.265	162.292	
12)	L6 Aroclor-1254	10.46	10.87	838122	1942720	195.9	275.2	#
13)	L6 Aroclor-1254 {2}	11.02	11.28	1399904	1157515	202.4	203.6	
14)	L6 Aroclor-1254 {3}	11.86	12.25	1201898	1645114	170.8	148.0	
15)	L6 Aroclor-1254 {4}	12.83	13.07	863618	819188	160.9	148.7	
16)	L6 Aroclor-1254 {5}	13.39	13.77	975599	1247451	137.1	125.9	
	Sum Aroclor-1254			5279141	6811988	867.1	901.4	
	Average Aroclor-1254					173.418	180.289	
17)	L7 Aroclor-1260	12.24	12.64	581021	801358	95.8	90.0	
18)	L7 Aroclor-1260 {2}	12.83	13.07	863618	819188	86.2	97.1	
19)	L7 Aroclor-1260 {3}	13.39	13.37f	975599	898892	126.1	117.8	
20)	L7 Aroclor-1260 {4}	14.06	14.42f	98337	310387	28.5	64.8	#
21)	L7 Aroclor-1260 {5}	14.62	14.88	149420	211979	18.5	25.4	#
	Sum Aroclor-1260			2667995	3041803	134.7	149.9	
	Average Aroclor-1260					71.028	79.018	

Ag.20.9

(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_13_01\7_091338.D
Date Acquired: 14 Sep 2001 00:32
Inst: HP_07 Operator ID: SA
Name: 47292.13MSD *E02N8MSD *
Misc: *EPA*30.3G/5ML*13
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 11:05 2001 Quant Results File: XPCBI12.RES



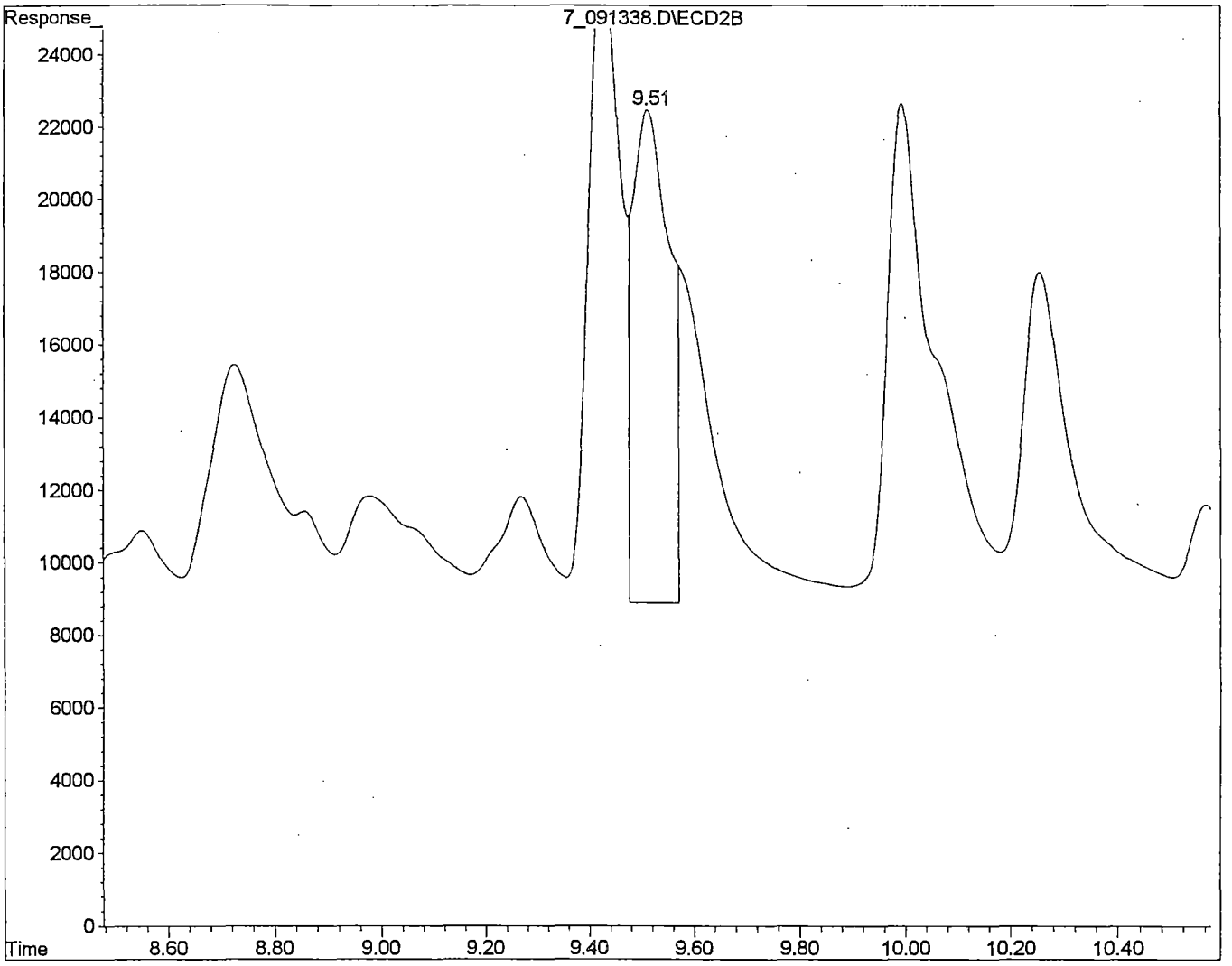
Aroclor-1242 {4} 9.19min area: 545124 m

Integration Time Range: 9.19 - 9.27

F:\HPCHEM\HP\7\DATA\09_13_01\7_091338.D
Report generated: Thu Sep 20 08:55:36 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\7\DATA\09_13_01\7_091338.D
Date Acquired: 14 Sep 2001 00:32
Inst: HP_07 Operator ID: SA
Name: 47292.13MSD *E02N8MSD *
Misc: *EPA*30.3G/5ML*13
Method: F:\HPCHEM\HP\7\DATA\09_13_01\XPCBI12.M
Title: PCB/TOXAPHENE
Quant Time: Sep 14 11:05 2001 Quant Results File: XPCBI12.RES



09-20-01

Aroclor-1242 {4} #2 9.51min area: 656435 m

Integration Time Range: 9.48 - 9.57

F:\HPCHEM\HP\7\DATA\09_13_01\7_091338.D
Report generated: Thu Sep 20 08:55:37 2001

Gel Permeation Chromatography (GPC) Run Log - GPC2

SWOK AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 364134 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case# 29602

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
08/21/01 14:31	1	CAL STD (INITIAL)	2_082101	
08/21/01 15:02	2	SB	2_082102	
08/21/01 15:33	3	SB	2_082103	
08/21/01 16:04	4	SB	2_082104	
08/21/01 16:35	5	SB	2_082105	
08/21/01 17:07	6	SB#082101C (PEST)	2_082106	
08/21/01 17:38	7	SB#082101D (PEST)	2_082107	
08/21/01 18:09	8	BL0816SE-EPA	2_082108	
08/21/01 18:40	9	BB0816SE-EPA	2_082109	
08/21/01 19:11	10	LC0816SE-EPA	2_082110	
08/21/01 19:42	11	LD0816SE-EPA	2_082111	
08/21/01 20:13	12	47292.16-E02P1-EPA	2_082112	
08/21/01 20:44	13	47292.07-E02N4-EPA	2_082113	
08/21/01 21:15	14	47292.18-E02P3-EPA	2_082114	
08/21/01 21:46	15	47292.09-E03N6-EPA	2_082115	
08/21/01 22:18	16	47292.17-E02P2-EPA	2_082116	
08/21/01 22:49	17	47292.12-E02N8MS-EPA	2_082117	
08/21/01 23:20	18	47292.13-E02N8MSD-EPA	2_082118	
08/21/01 23:51	19	47292.08-E02N5-EPA	2_082119	
08/22/01 00:22	20	47292.06-E02N3-EPA	2_082120	
08/22/01 00:53	21	47292.19-E02P4-EPA	2_082121	

8/21/2001 8/24/01

Verification Signature/Date Analyst Signature/Date

Book: OE-102-16-RUN- Page No.: 17

Gel Permeation Chromatography (GPC) Run Log - GPC2

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 364134 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case# 29602

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
08/22/01 01:24	22	47292.05-E02N2-EPA	2_082122	
08/22/01 01:55	23	47292.14-E02N9-EPA	2_082123	
08/22/01 02:26	24	47292.15-E02P0-EPA	2_082124	
08/22/01 02:57	25	47292.10-E02N7-EPA	2_082125	
08/22/01 03:29	26	47292.01-E02M8-EPA [1 OF 2]	2_082126	
08/22/01 04:00	27	47292.01-E02M8-EPA [2 OF 2]	2_082127	
08/22/01 04:31	28	47292.11-E02N8-EPA	2_082128	
08/22/01 05:02	29	47282.03-E02M7-EPA	2_082129	
08/22/01 05:33	30	47282.02-E02M6-EPA	2_082130	
08/22/01 06:04	31	47292.02-E02M9-EPA	2_082131	
08/22/01 06:35	32	47292.03-E02N0-EPA	2_082132	
08/22/01 07:06	33	47282.01-E02M5-EPA	2_082133	
08/22/01 07:37	34	47292.04-E02N1-EPA	2_082134	
08/22/01 08:08	35	SB	2_082135	
08/22/01 08:40	36	SB	2_082136	
08/22/01 09:11	37	SB	2_082137	
08/22/01 09:42	38	SB	2_082138	

Compound	Initial RT	Final RT	% Difference
Phthalate	14.76	14.27	3.32
Methoxychlor	16.45	15.88	3.46
Perylene	21.53	20.88	3.02

8/25/2001
Verification Signature/Date

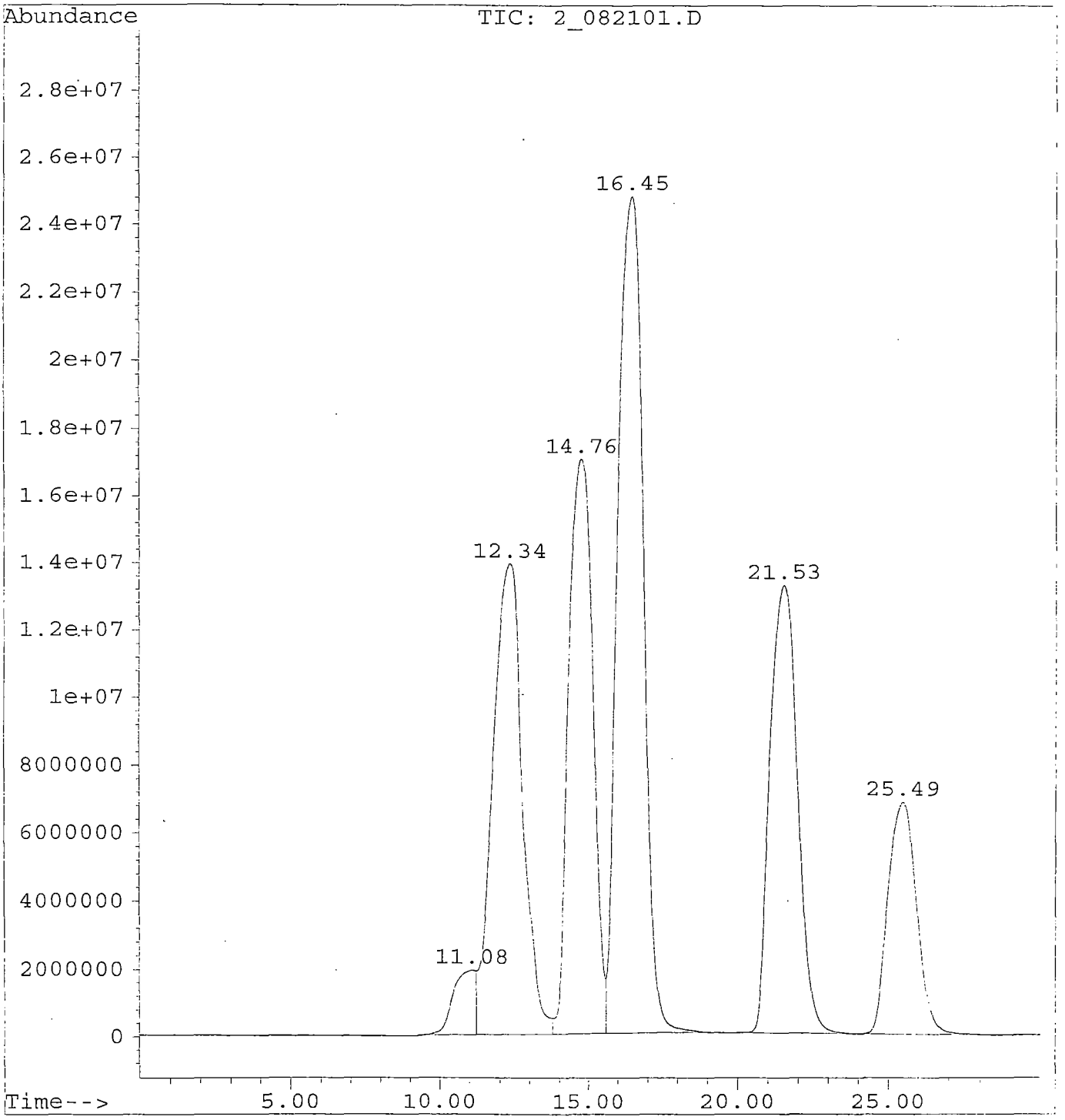
8/24/01
Analyst Signature/Date

Book: OE-102-16-RUN- Page No.: 18

* Computer missing data for vial #39 (Final Cal. Std.); applied Final Cal. Std. from 8/22/01 CR 8/24

Data File : C:\HPCHEM\6\DATA\082101\2_082101.D
Acq On : 21 Aug 01 02:31 PM
Sample : CAL STD (INITIAL)
Misc : COL# 364134

Vial: 1
Operator: CR COL#
Inst : GPC2
Multiplr: 1.00



Chromatographic Resolution Report

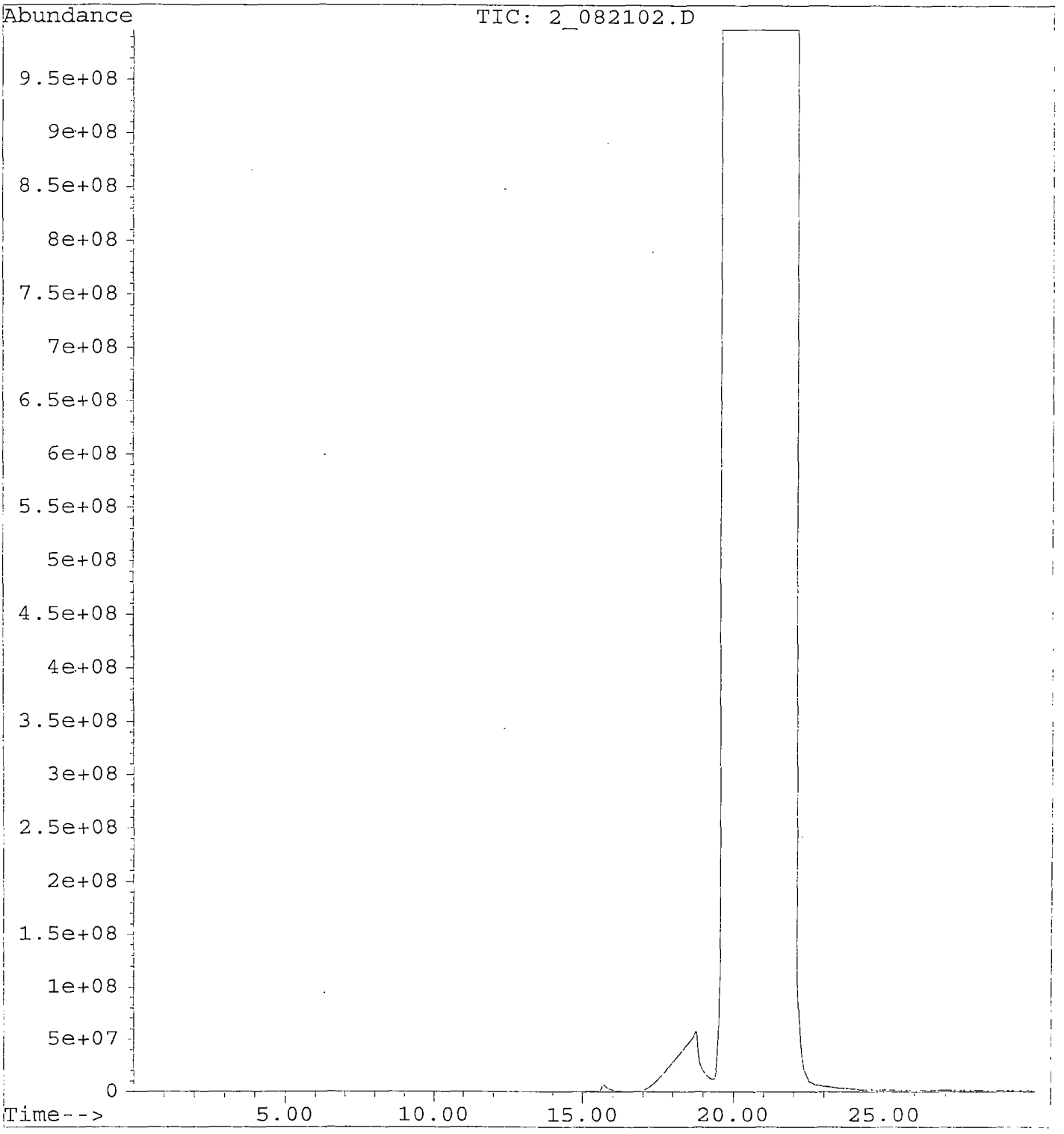
Data File : C:\HPCHEM\6\DATA\082101\2_082101.D
Acq On : 21 Aug 01 14:31
Sample : CAL STD (INITIAL)
Misc : COL# 364134

Vial: 1
Operator: CR COL# 36
Inst : GPC2
Multiplr: 1.00

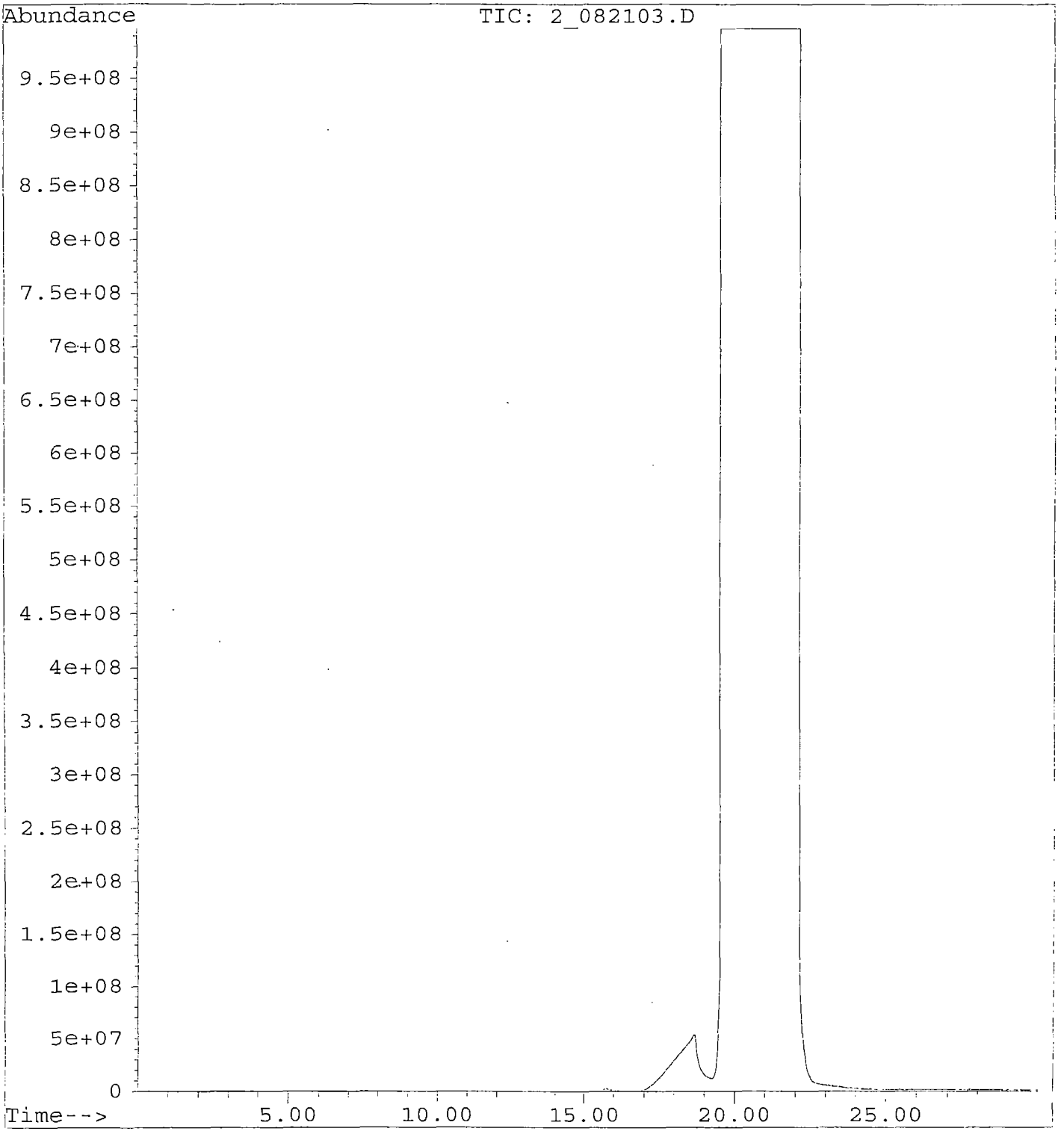
Method : C:\HPCHEM\6\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.085	12.340	1.68
12.340	14.763	96.55
14.763	16.445	90.40
16.445	21.532	100.00
21.532	25.494	99.96

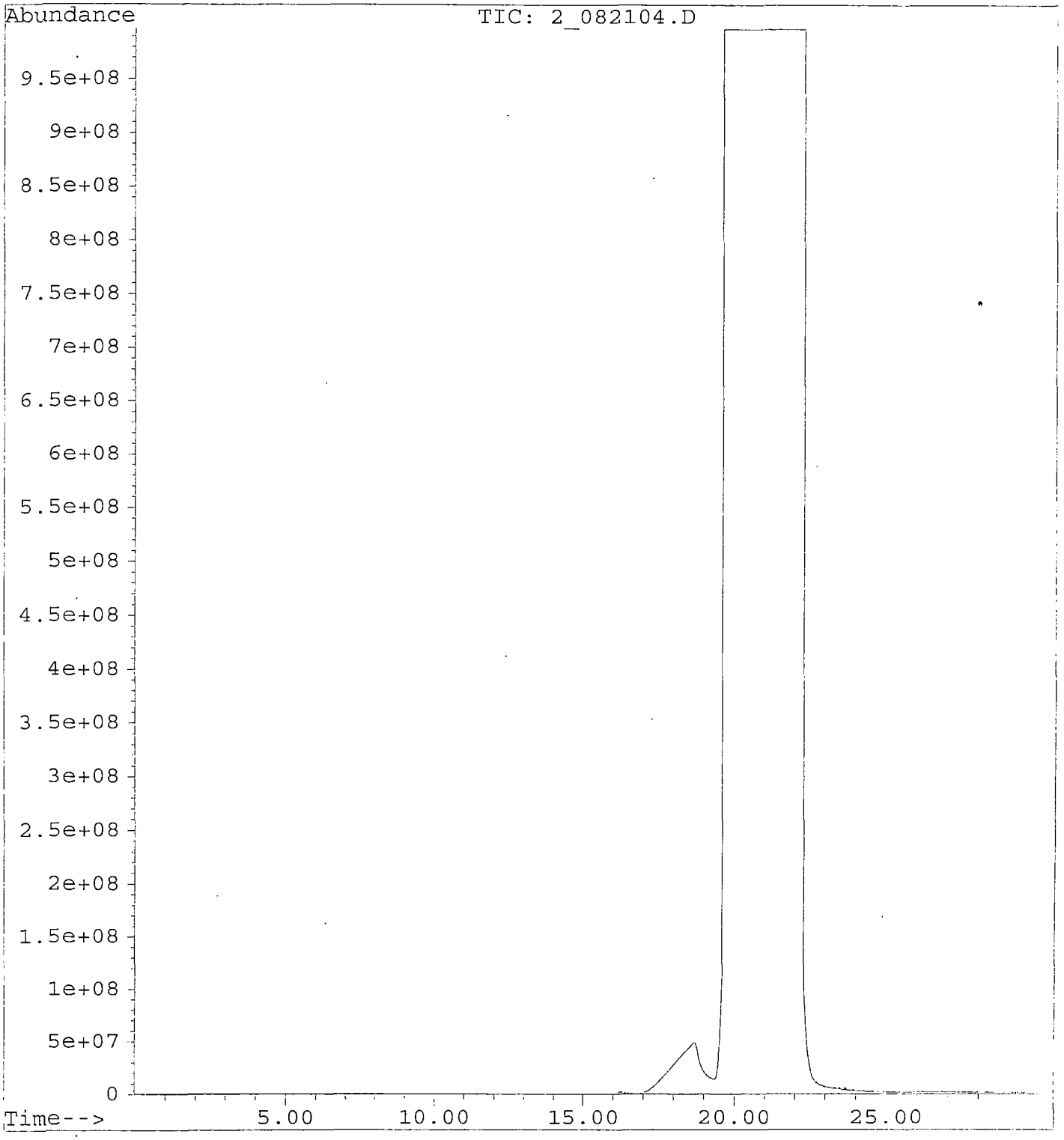
File : C:\HPCHEM\6\DATA\082101\2_082102.D
Operator : CR COL# 364134
Acquired : 21 Aug 01 15:02 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 2



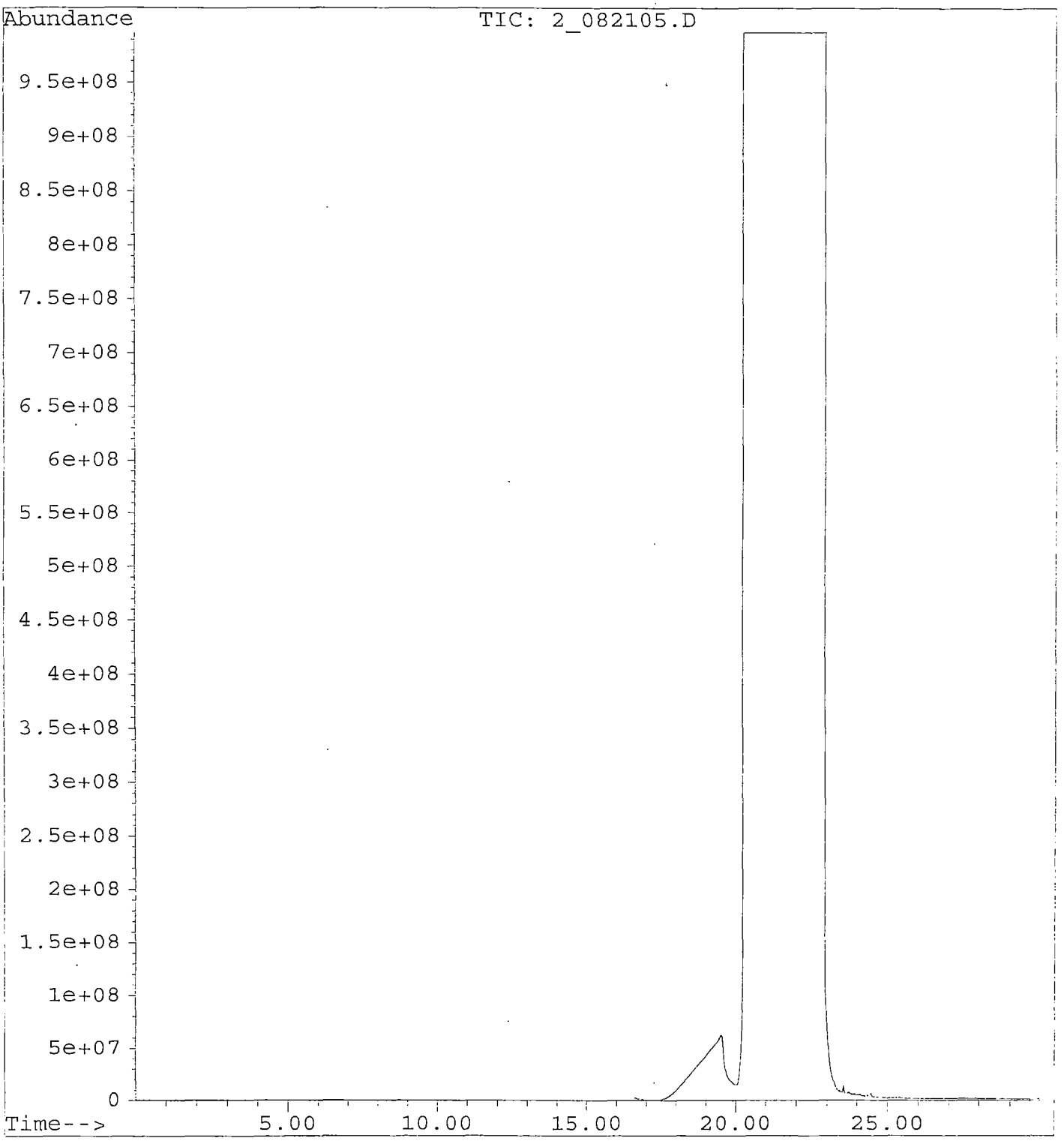
File : C:\HPCHEM\6\DATA\082101\2_082103.D
Operator : CR COL# 364134
Acquired : 21 Aug 01 15:33 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 3



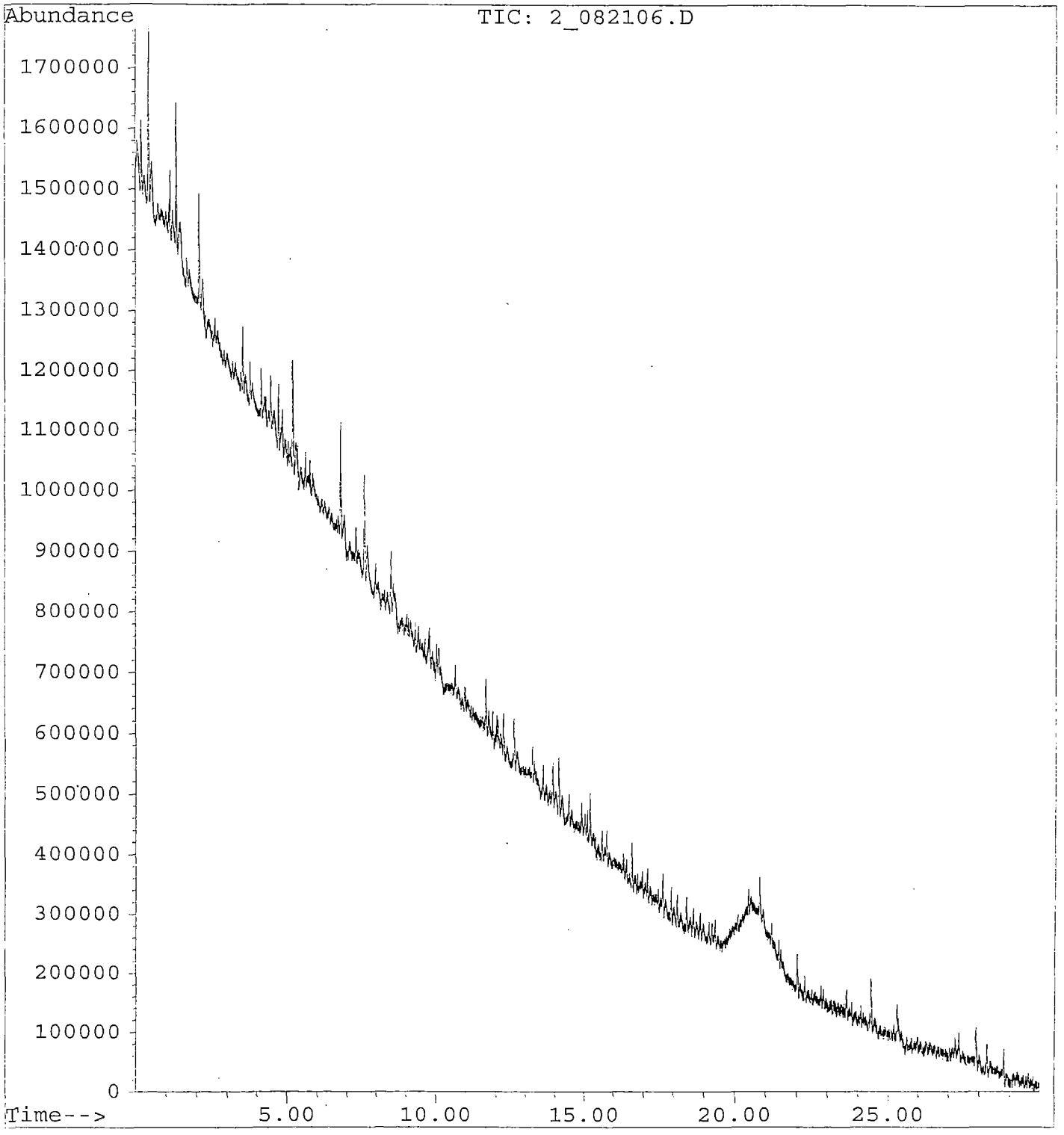
File : C:\HPCHEM\6\DATA\082101\2_082104.D
Operator : CR COL# 364134
Acquired : 21 Aug 01 16:04 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 4



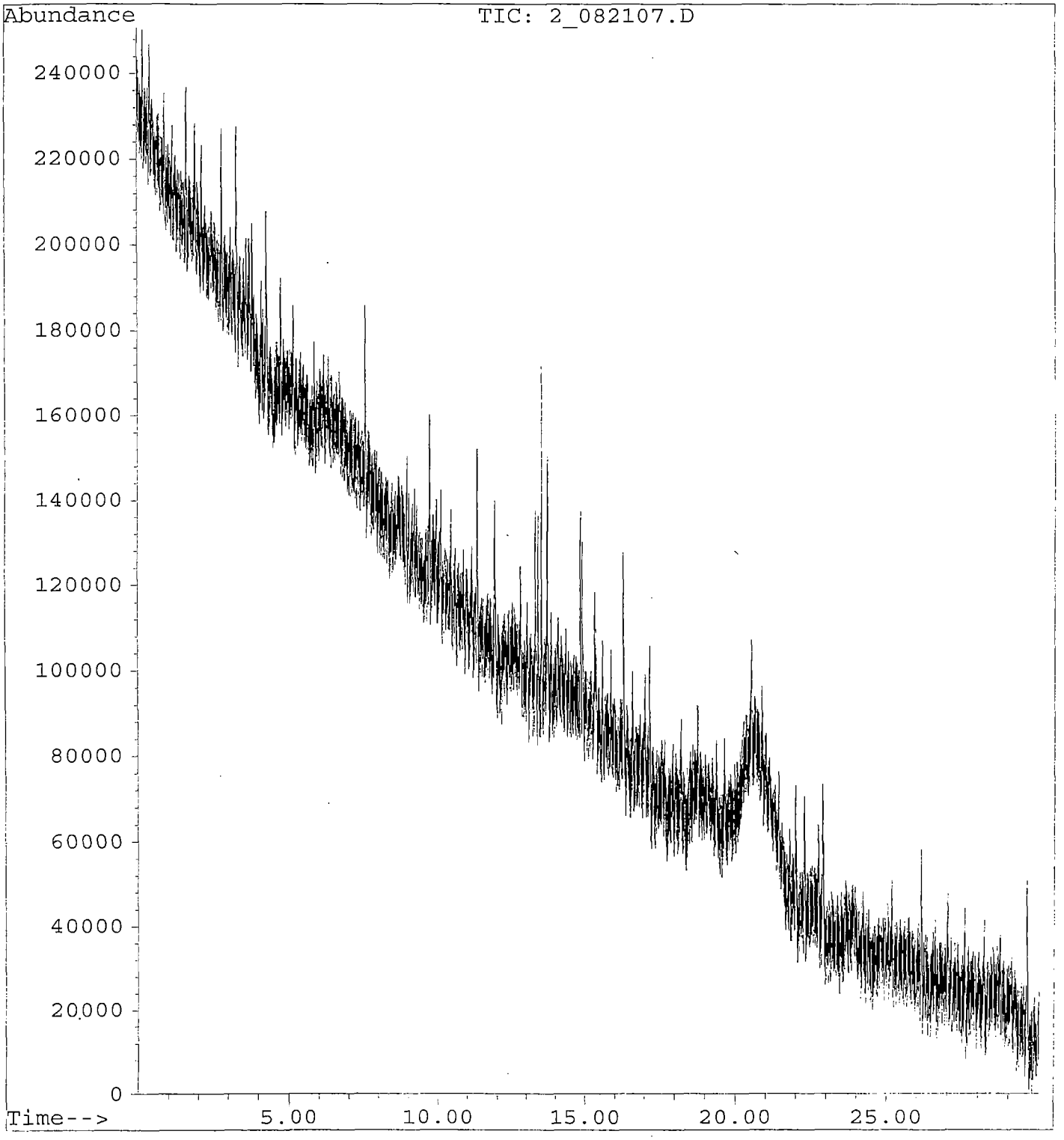
File : C:\HPCHEM\6\DATA\082101\2_082105.D
Operator : CR COL# 364134
Acquired : 21 Aug 01 16:35 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 5



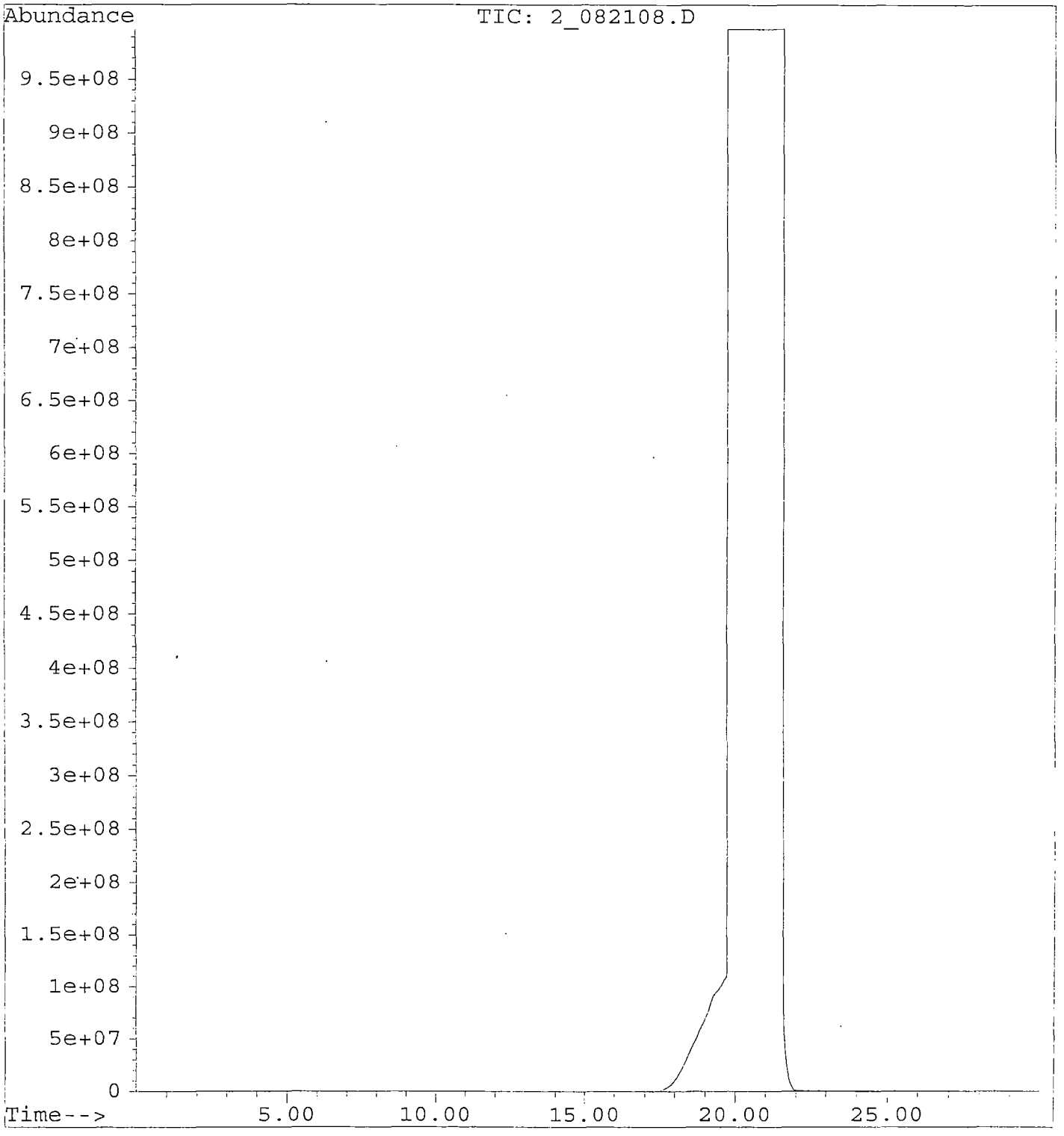
File : C:\HPCHEM\6\DATA\082101\2_082106.D
Operator : CR COL# 364134
Acquired : 21 Aug 01 17:07 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB#082101C (PEST)
Misc Info : COL# 364134
Vial Number: 6



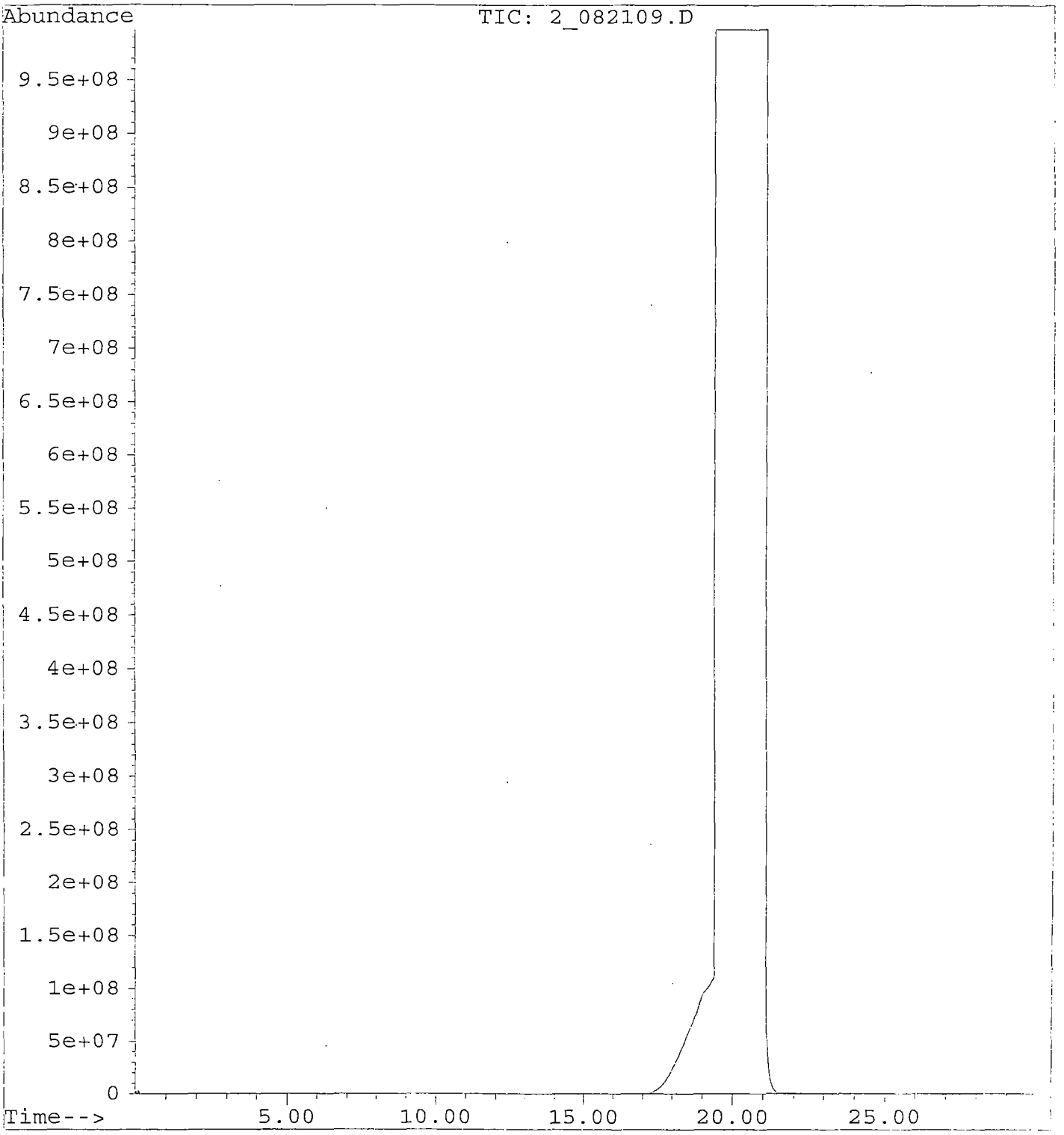
File : C:\HPCHEM\6\DATA\082101\2_082107.D
Operator : CR COL# 364134
Acquired : 21 Aug 01 17:38 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB#082101D (PEST)
Misc Info : COL# 364134
Vial Number: 7



File : C:\HPCHEM\6\DATA\082101\2_082108.D
Operator : CR COL# 364134
Acquired : 21 Aug 01 18:09 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: BL0816SE-EPA
Misc Info : COL# 364134
Vial Number: 8

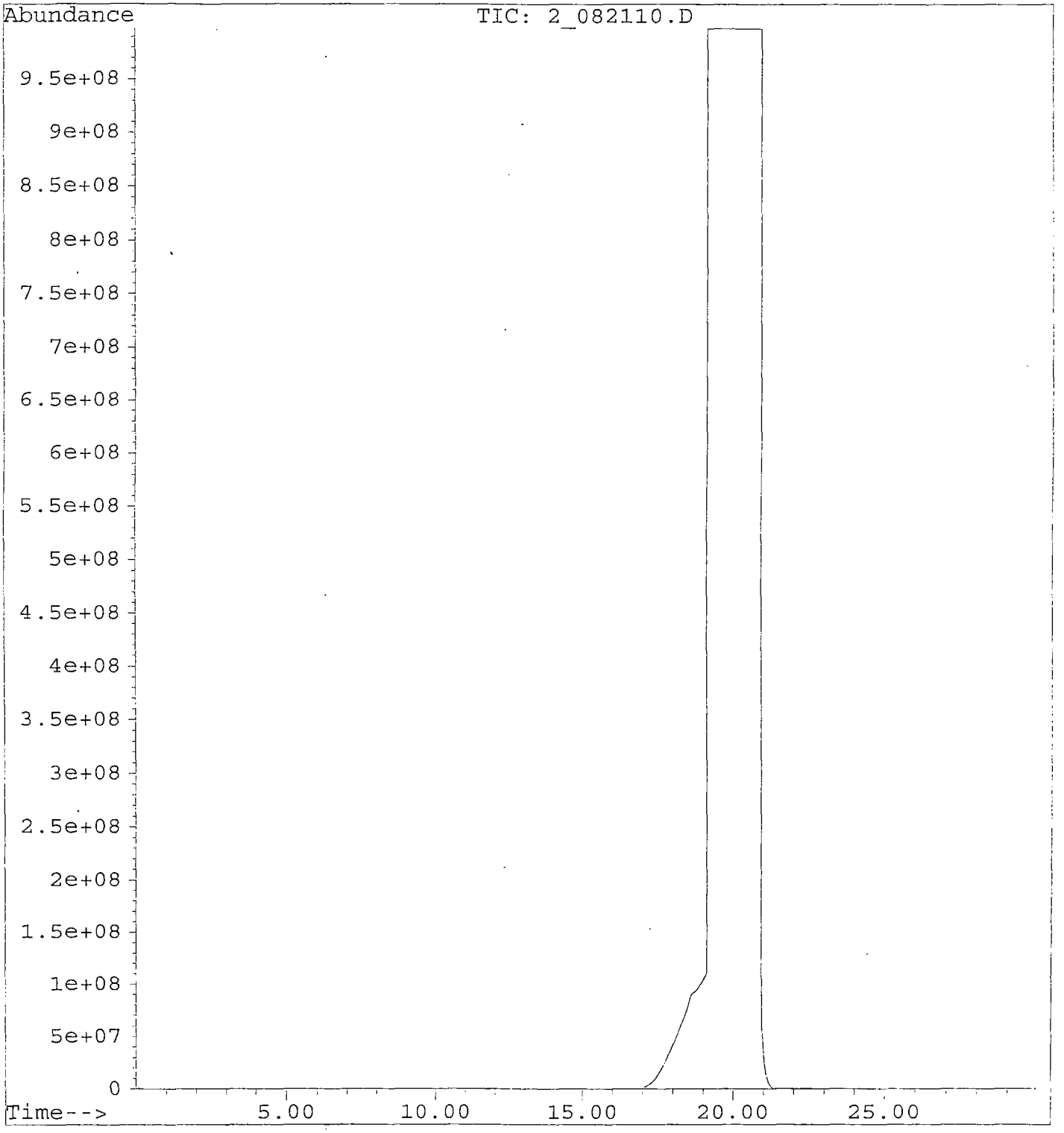


File : C:\HPCHEM\6\DATA\082101\2_082109.D
Operator : CR COL# 364134
Acquired : 21 Aug 01 18:40 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: BB0816SE-EPA
Misc Info : COL# 364134
Vial Number: 9

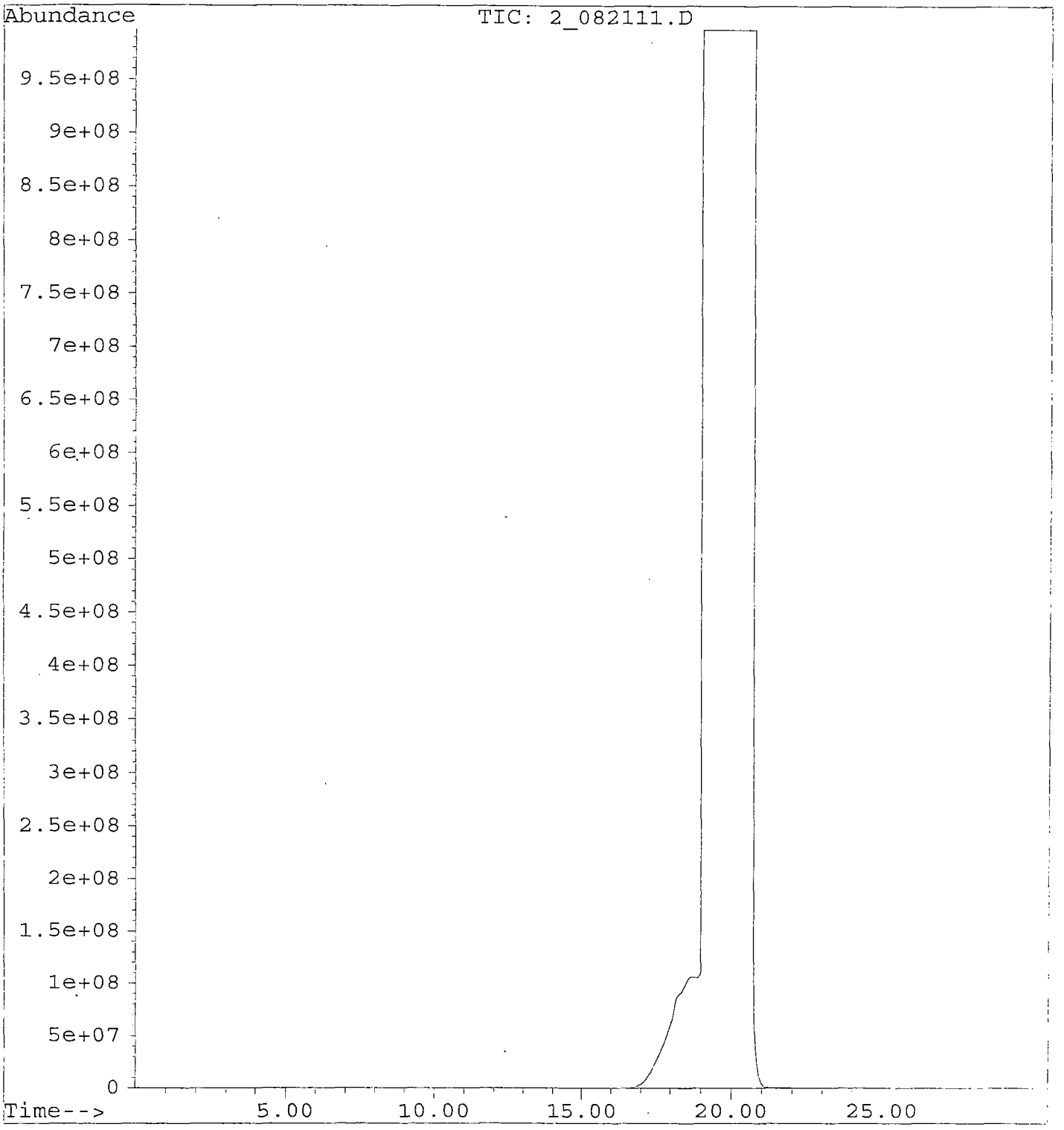


399A

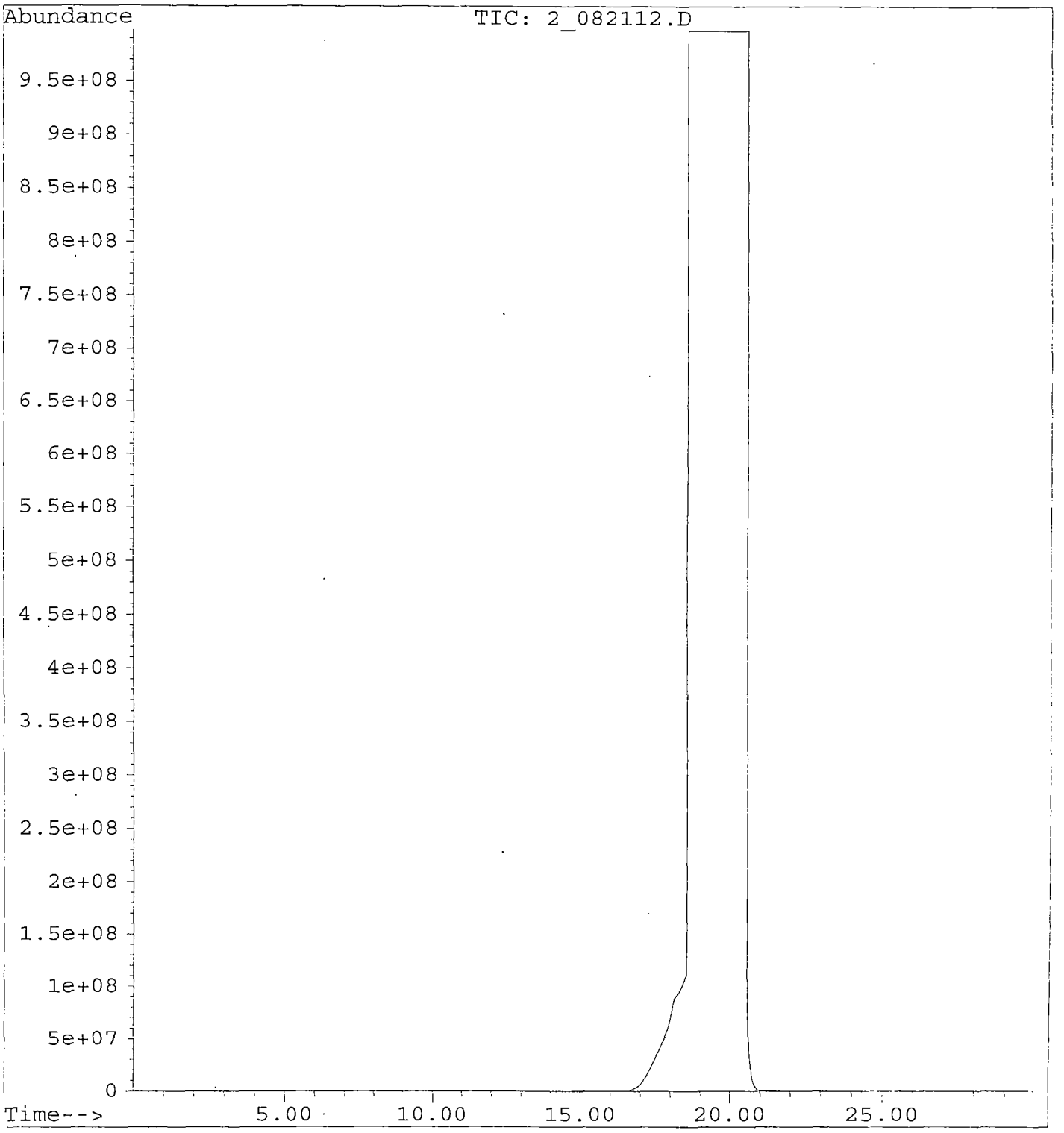
File : C:\HPCHEM\6\DATA\082101\2_082110.D
Operator : CR COL# 364134
Acquired : 21 Aug 01 19:11 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: LC0816SE-EPA
Misc Info : COL# 364134
Vial Number: 10



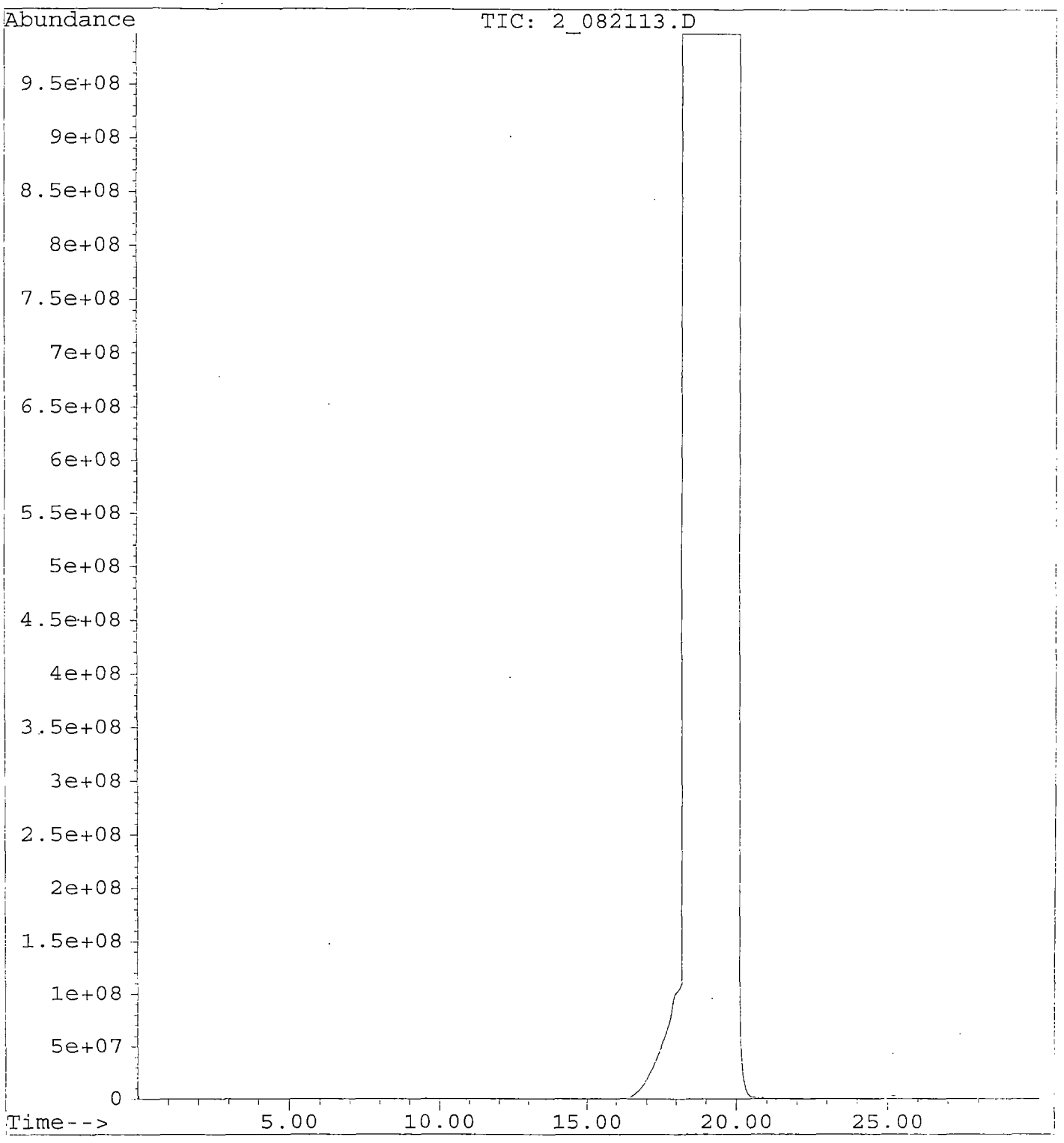
File : C:\HPCHEM\6\DATA\082101\2_082111.D
Operator : CR COL# 364134
Acquired : 21 Aug 01 19:42 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: LD0816SE-EPA
Misc Info : COL# 364134
Vial Number: 11



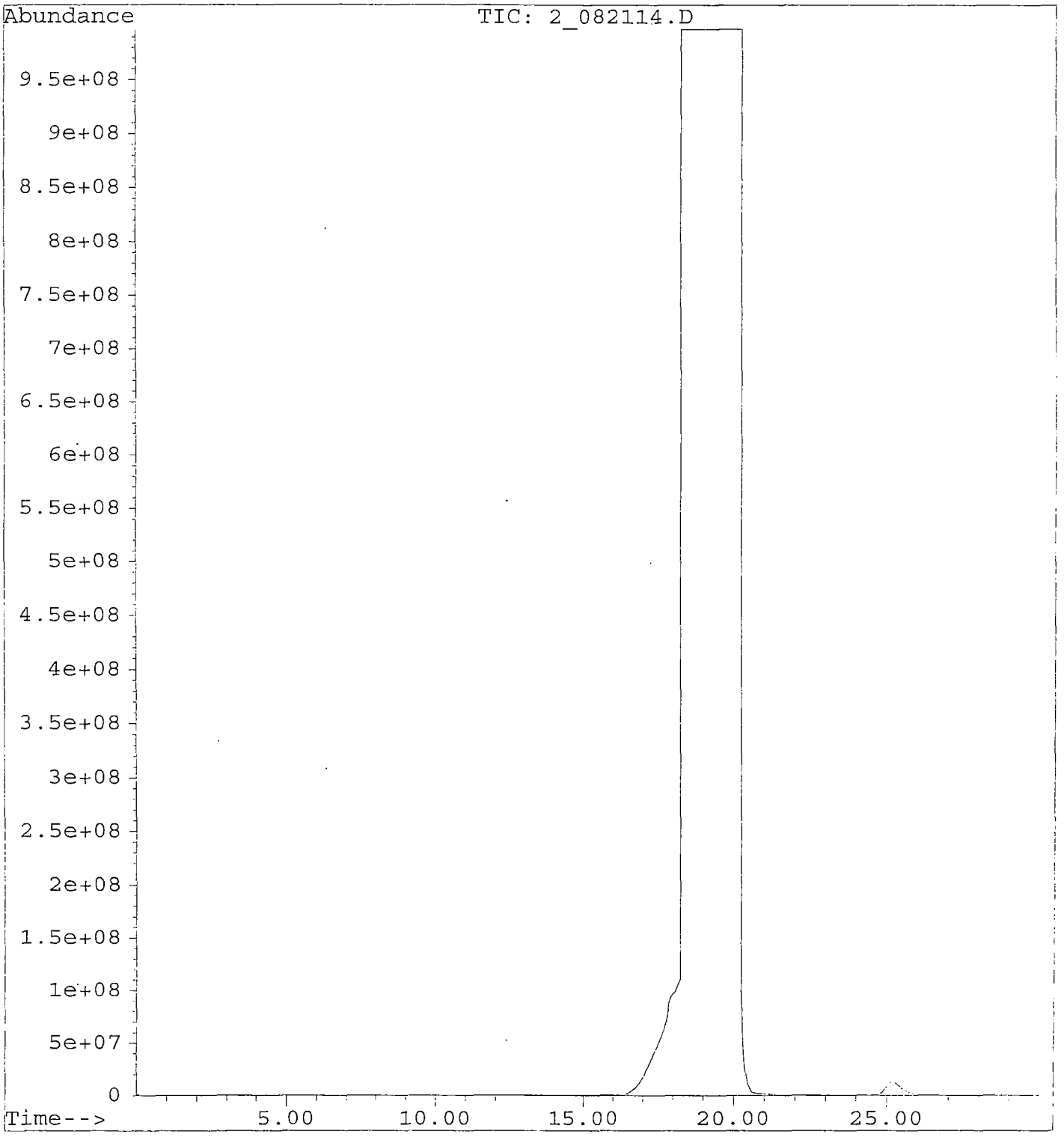
File : C:\HPCHEM\6\DATA\082101\2_082112.D
Operator : CR COL# 364134
Acquired : 21 Aug 01 20:13 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47292.16-E02P1-EPA
Misc Info : COL# 364134
Vial Number: 12



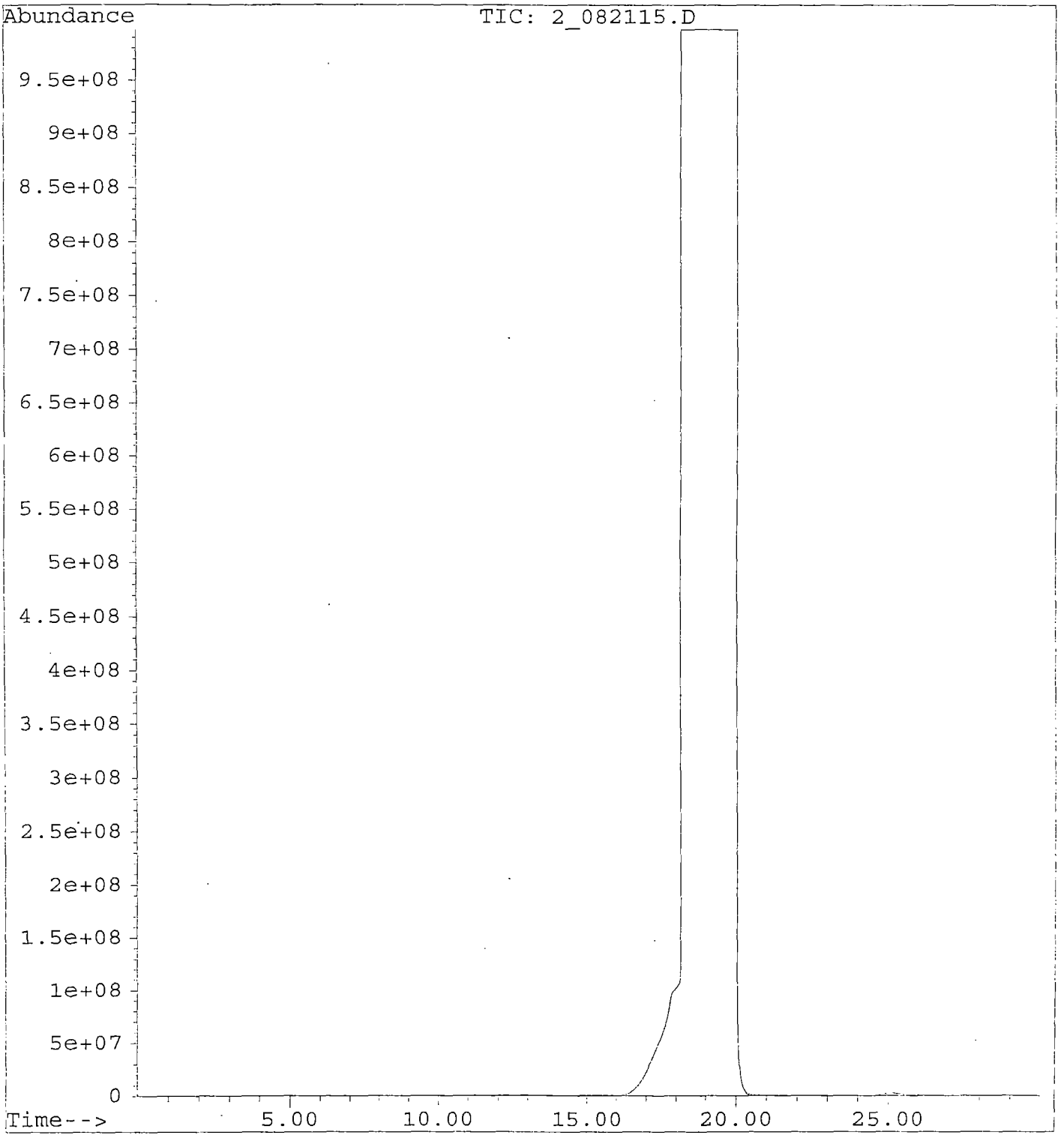
File : C:\HPCHEM\6\DATA\082101\2_082113.D
Operator : CR COL# 364134
Acquired : 21 Aug 01 20:44 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47292.07-E02N4-EPA
Misc Info : COL# 364134
Vial Number: 13



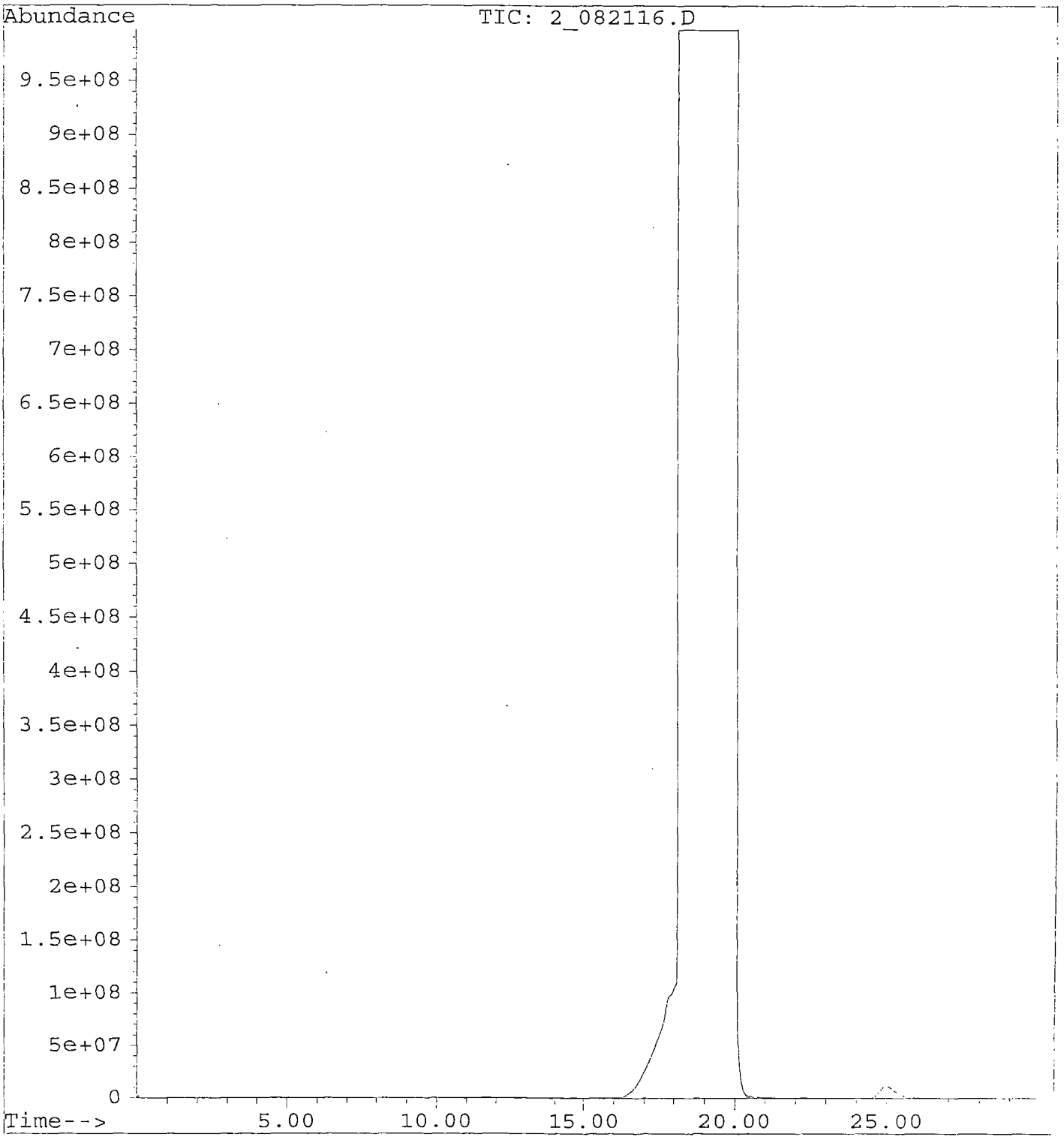
File : C:\HPCHEM\6\DATA\082101\2_082114.D
Operator : CR COL# 364134
Acquired : 21 Aug 01 21:15 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47292.18-E02P3-EPA
Misc Info : COL# 364134
Vial Number: 14



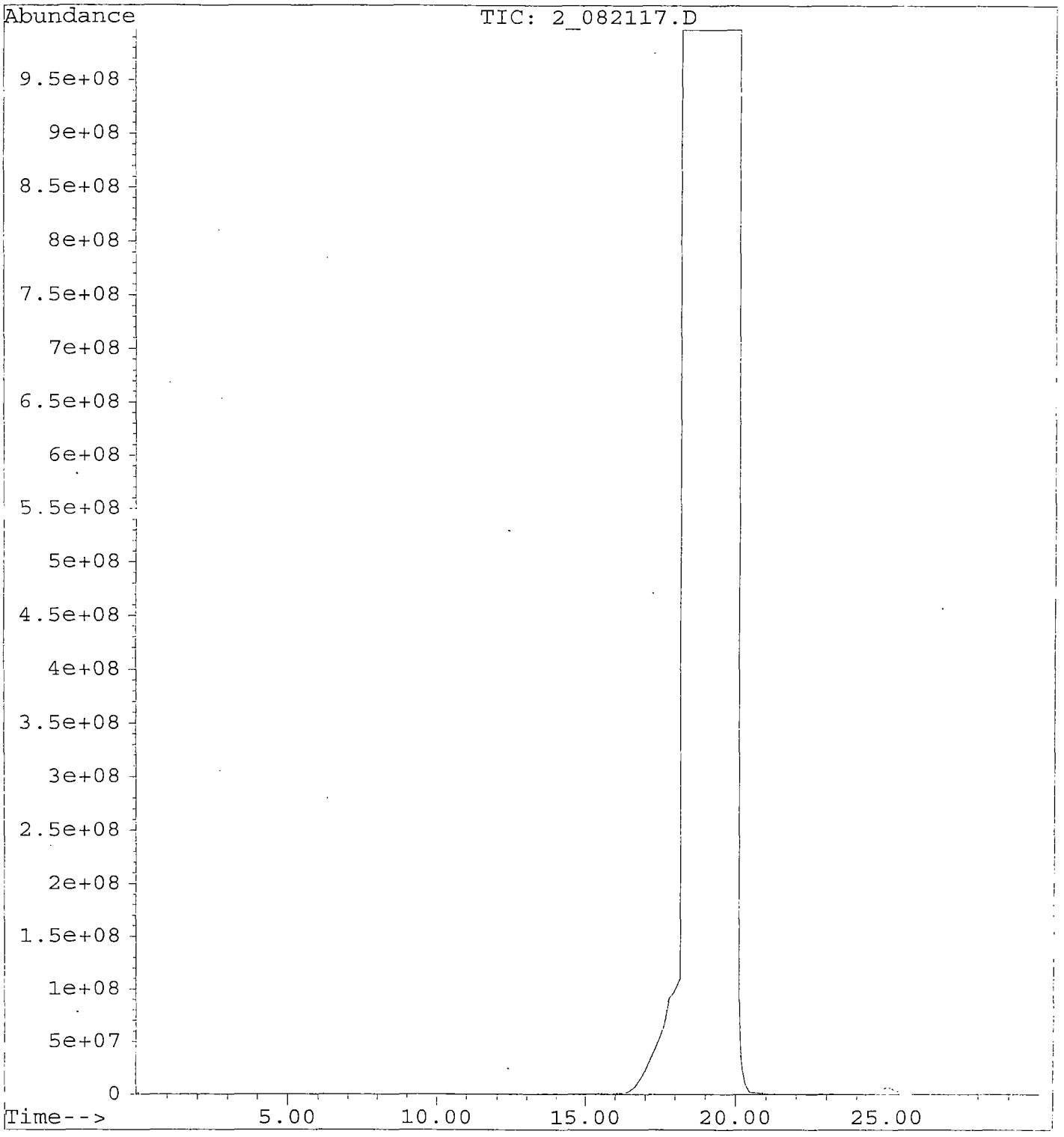
File : C:\HPCHEM\6\DATA\082101\2_082115.D
Operator : CR COL# 364134
Acquired : 21 Aug 01 21:46 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47292.09-E03N6-EPA
Misc Info : COL# 364134
Vial Number: 15



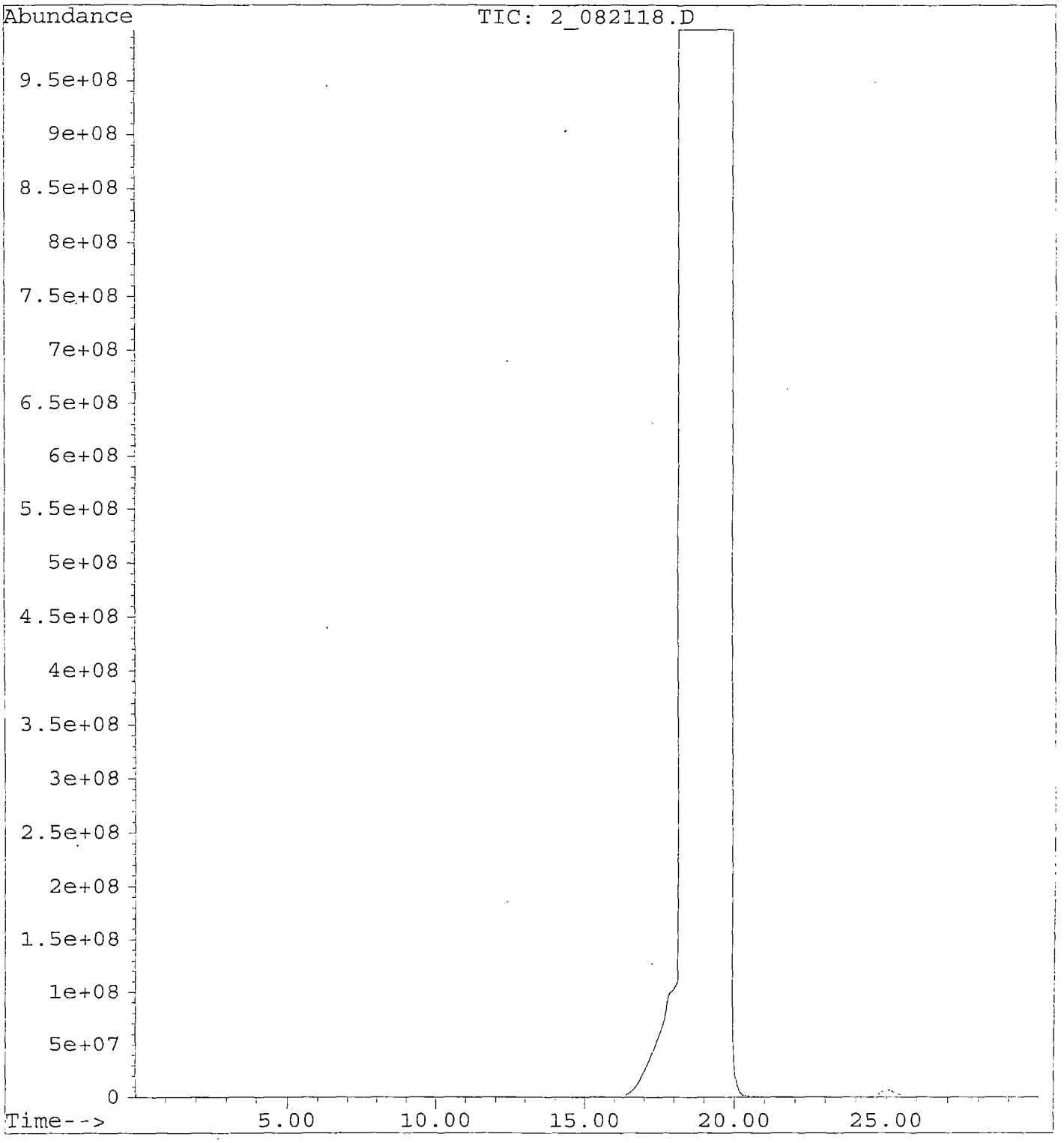
File : C:\HPCHEM\6\DATA\082101\2_082116.D
Operator : CR COL# 364134
Acquired : 21 Aug 01 22:18 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47292.17-E02P2-EPA
Misc Info : COL# 364134
Vial Number: 16



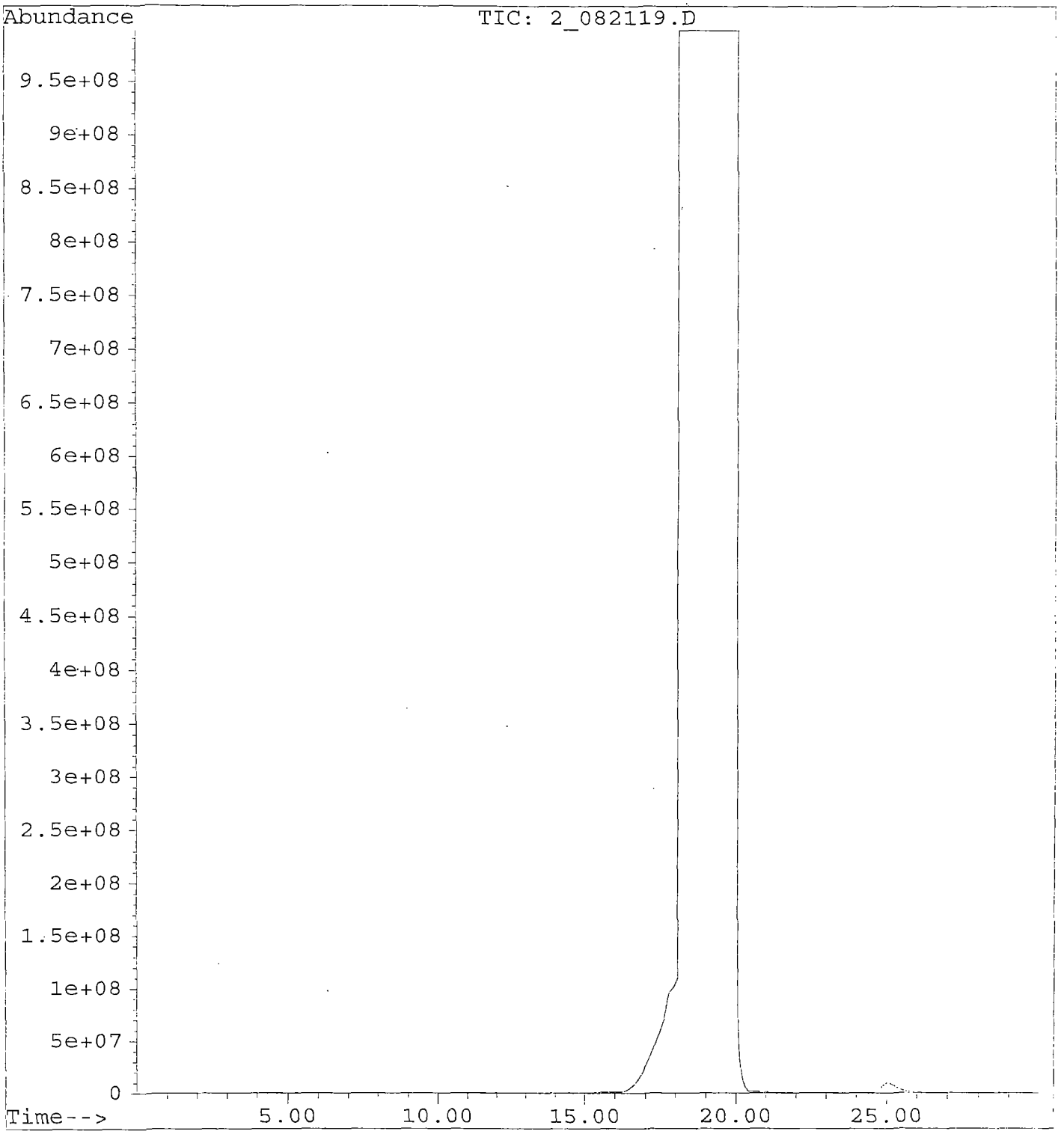
File : C:\HPCHEM\6\DATA\082101\2_082117.D
Operator : CR COL# 364134
Acquired : 21 Aug 01 22:49 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47292.12-E02N8MS-EPA
Misc Info : COL# 364134
Vial Number: 17



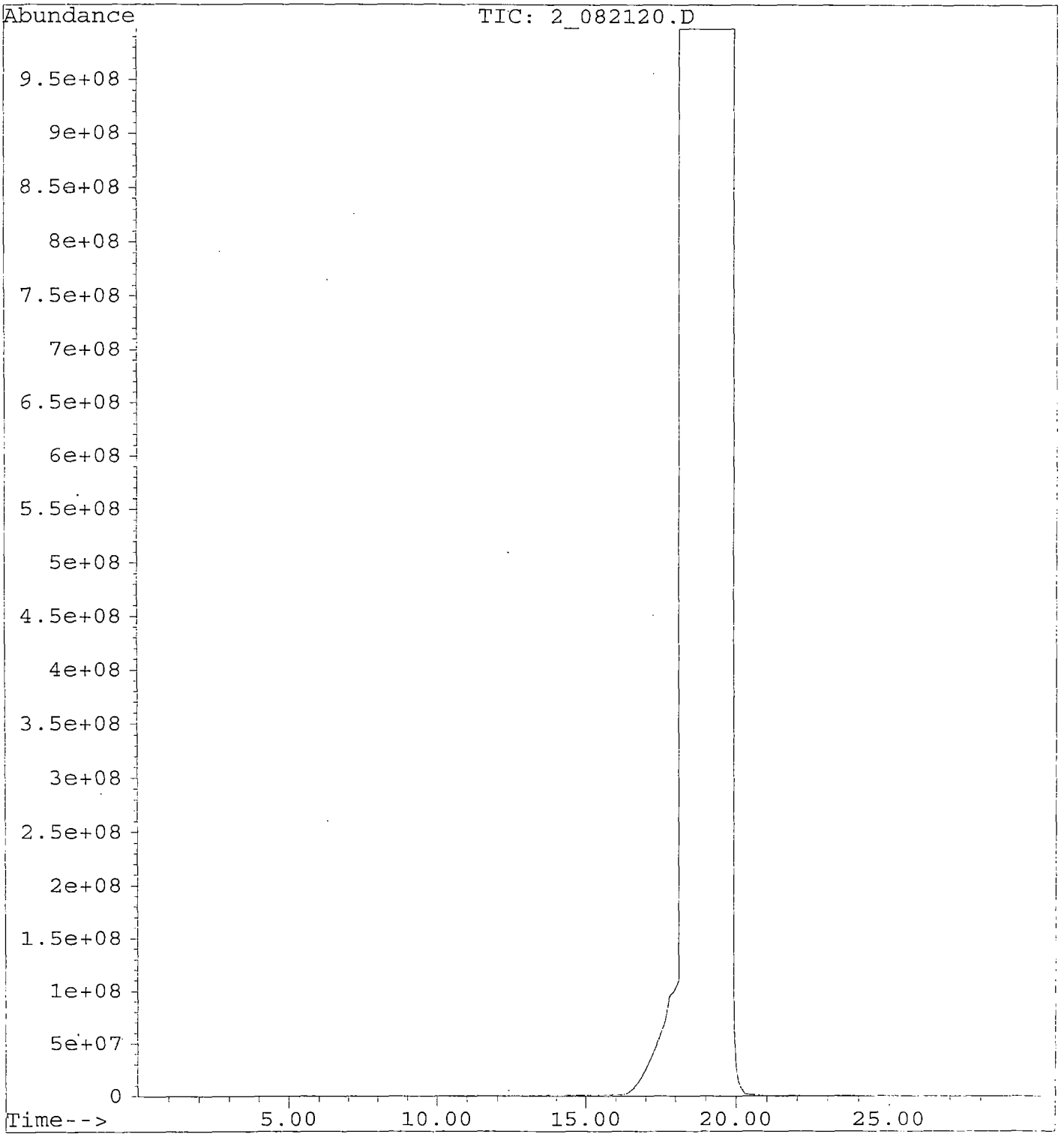
File : C:\HPCHEM\6\DATA\082101\2_082118.D
Operator : CR COL# 364134
Acquired : 21 Aug 01 23:20 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47292.13-E02N8MSD-EPA
Misc Info : COL# 364134
Vial Number: 18



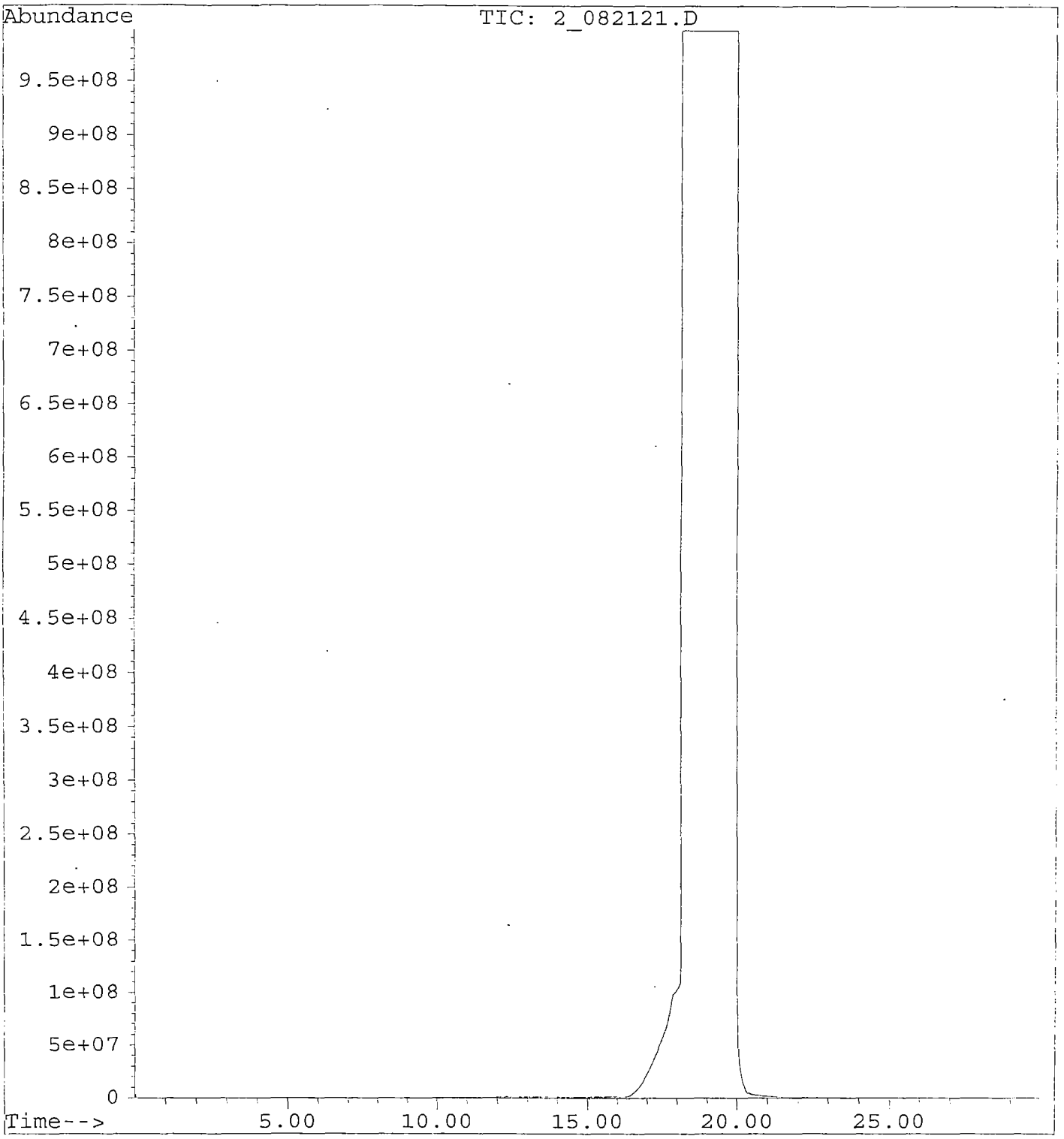
File : C:\HPCHEM\6\DATA\082101\2_082119.D
Operator : CR COL# 364134
Acquired : 21 Aug 01 23:51 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47292.08-E02N5-EPA
Misc Info : COL# 364134
Vial Number: 19



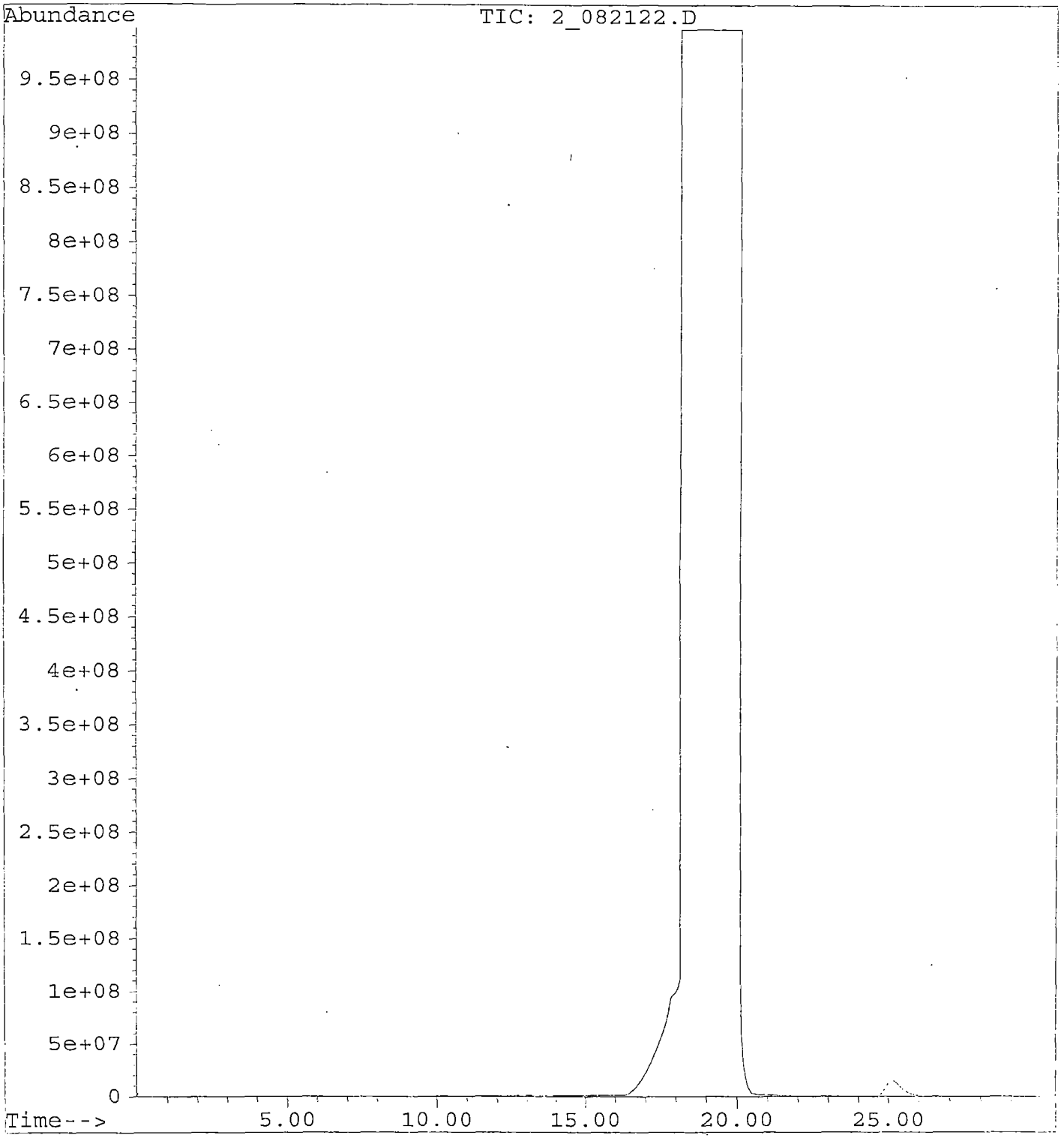
File : C:\HPCHEM\6\DATA\082101\2_082120.D
Operator : CR COL# 364134
Acquired : 22 Aug 01 00:22 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47292.06-E02N3-EPA
Misc Info : COL# 364134
Vial Number: 20



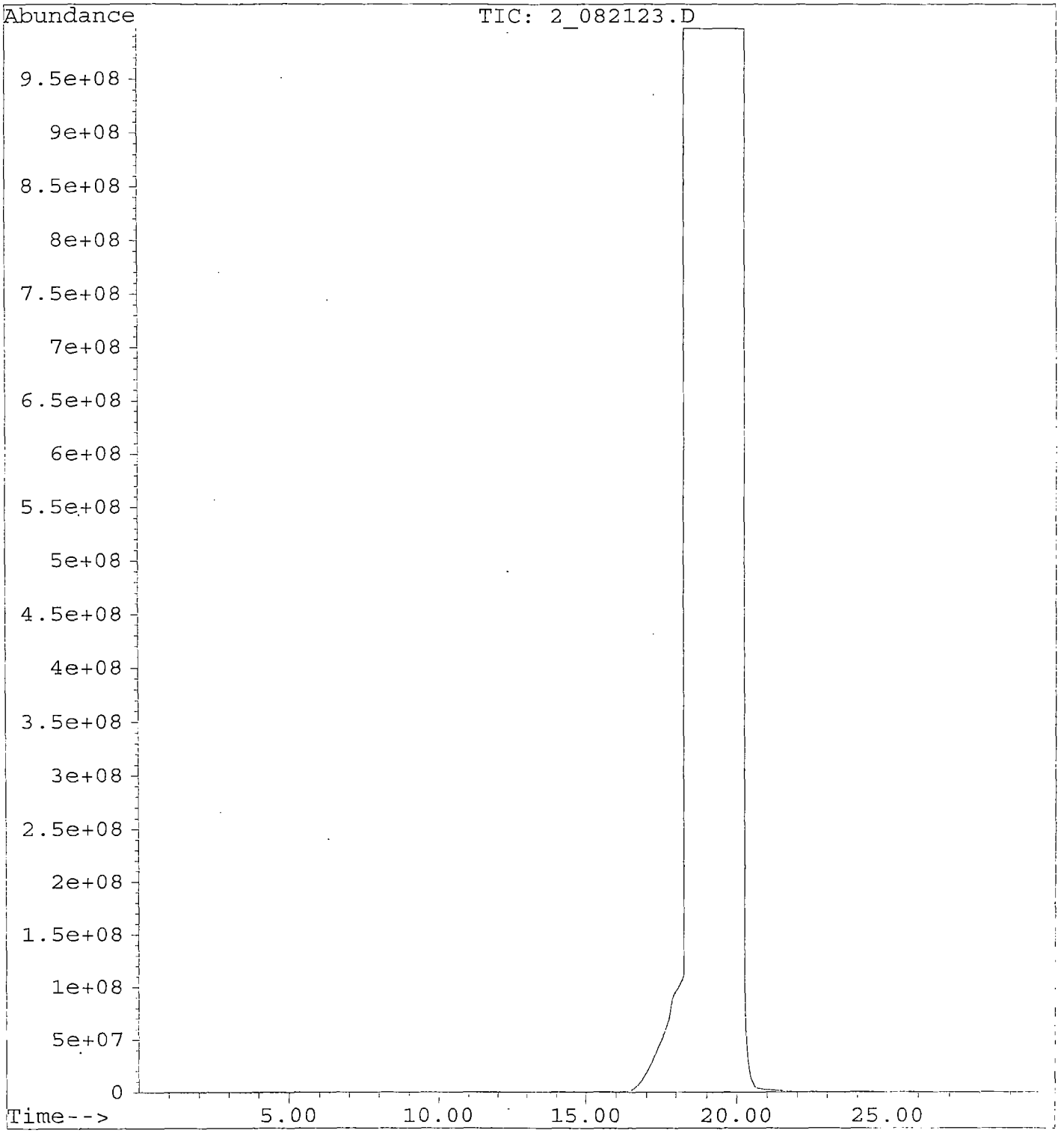
File : C:\HPCHEM\6\DATA\082101\2_082121.D
Operator : CR COL# 364134
Acquired : 22 Aug 01 00:53 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47292.19-E02P4-EPA
Misc Info : COL# 364134
Vial Number: 21



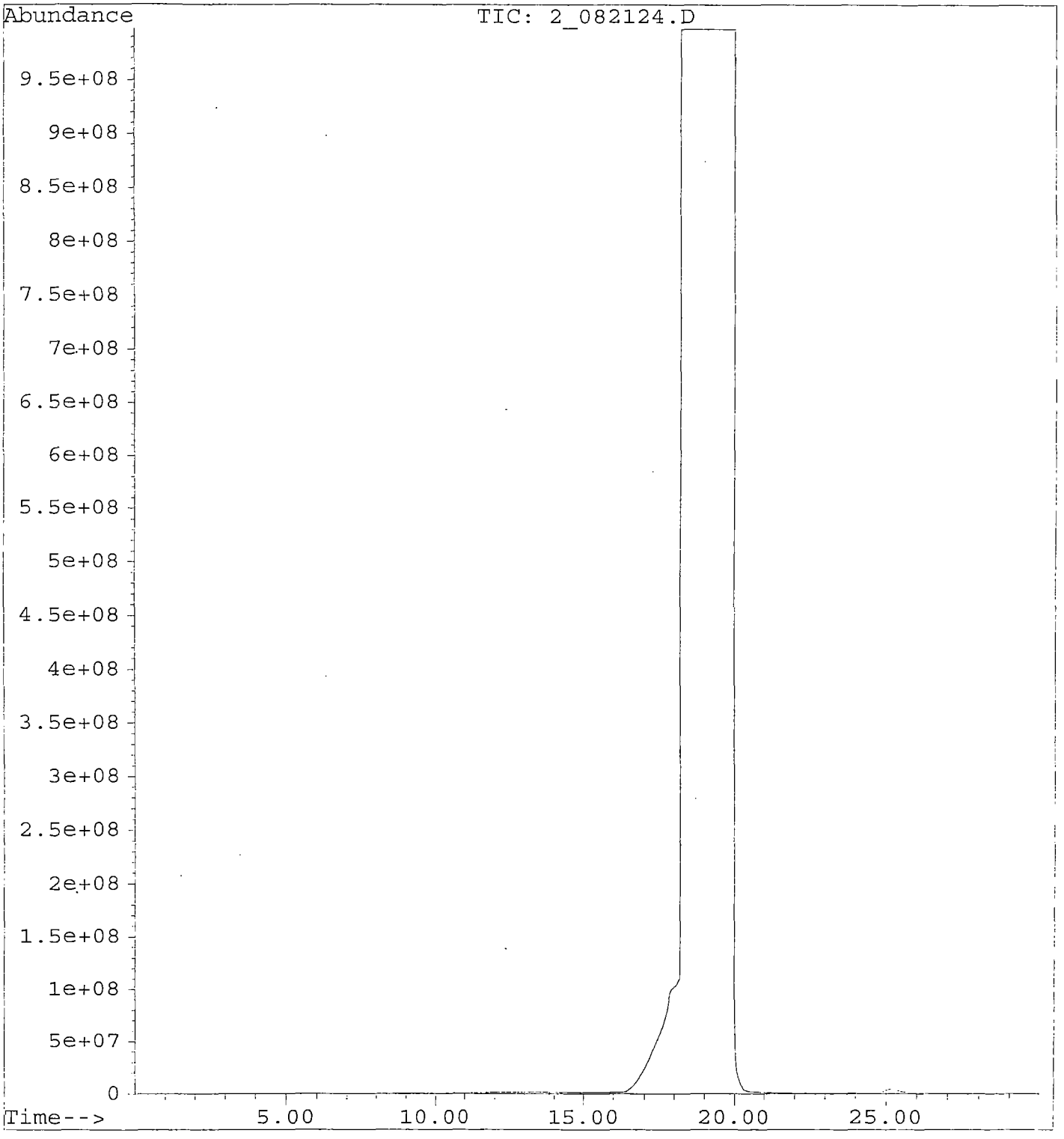
File : C:\HPCHEM\6\DATA\082101\2_082122.D
Operator : CR COL# 364134
Acquired : 22 Aug 01 01:24 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47292.05-E02N2-EPA
Misc Info : COL# 364134
Vial Number: 22



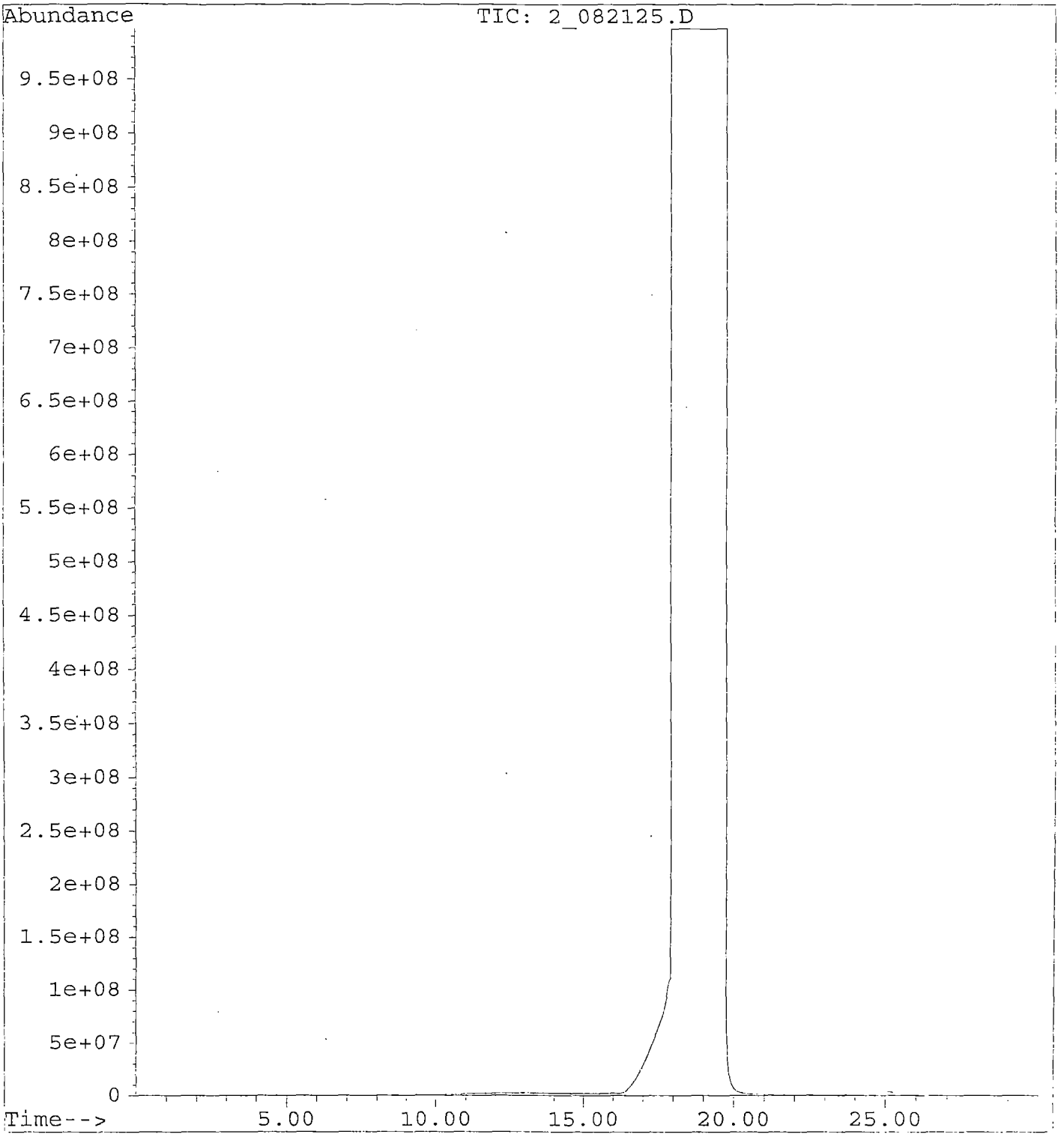
File : C:\HPCHEM\6\DATA\082101\2_082123.D
Operator : CR COL# 364134
Acquired : 22 Aug 01 01:55 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47292.14-E02N9-EPA
Misc Info : COL# 364134
Vial Number: 23



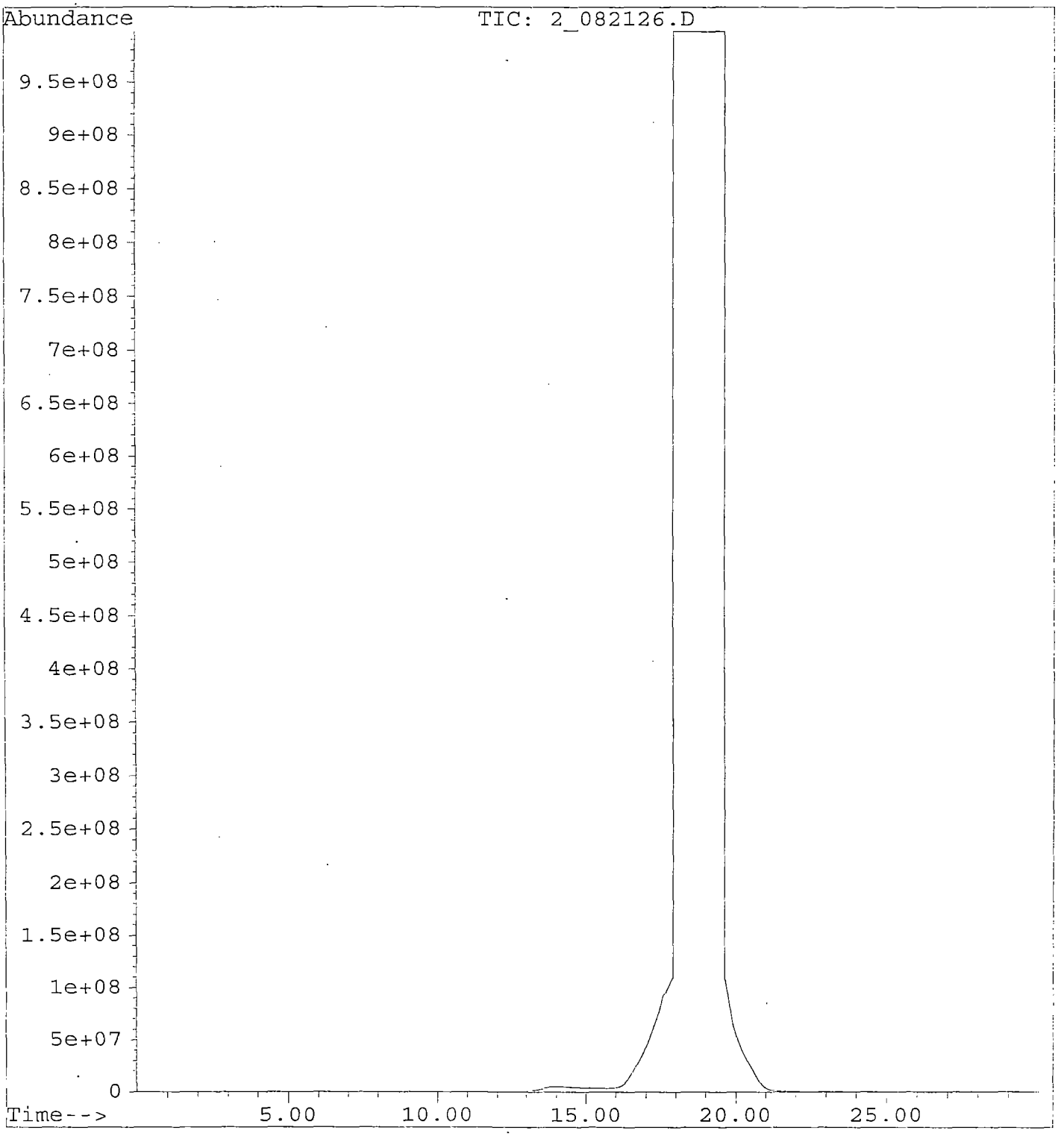
File : C:\HPCHEM\6\DATA\082101\2_082124.D
Operator : CR COL# 364134
Acquired : 22 Aug 01 02:26 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47292.15-E02P0-EPA
Misc Info : COL# 364134
Vial Number: 24



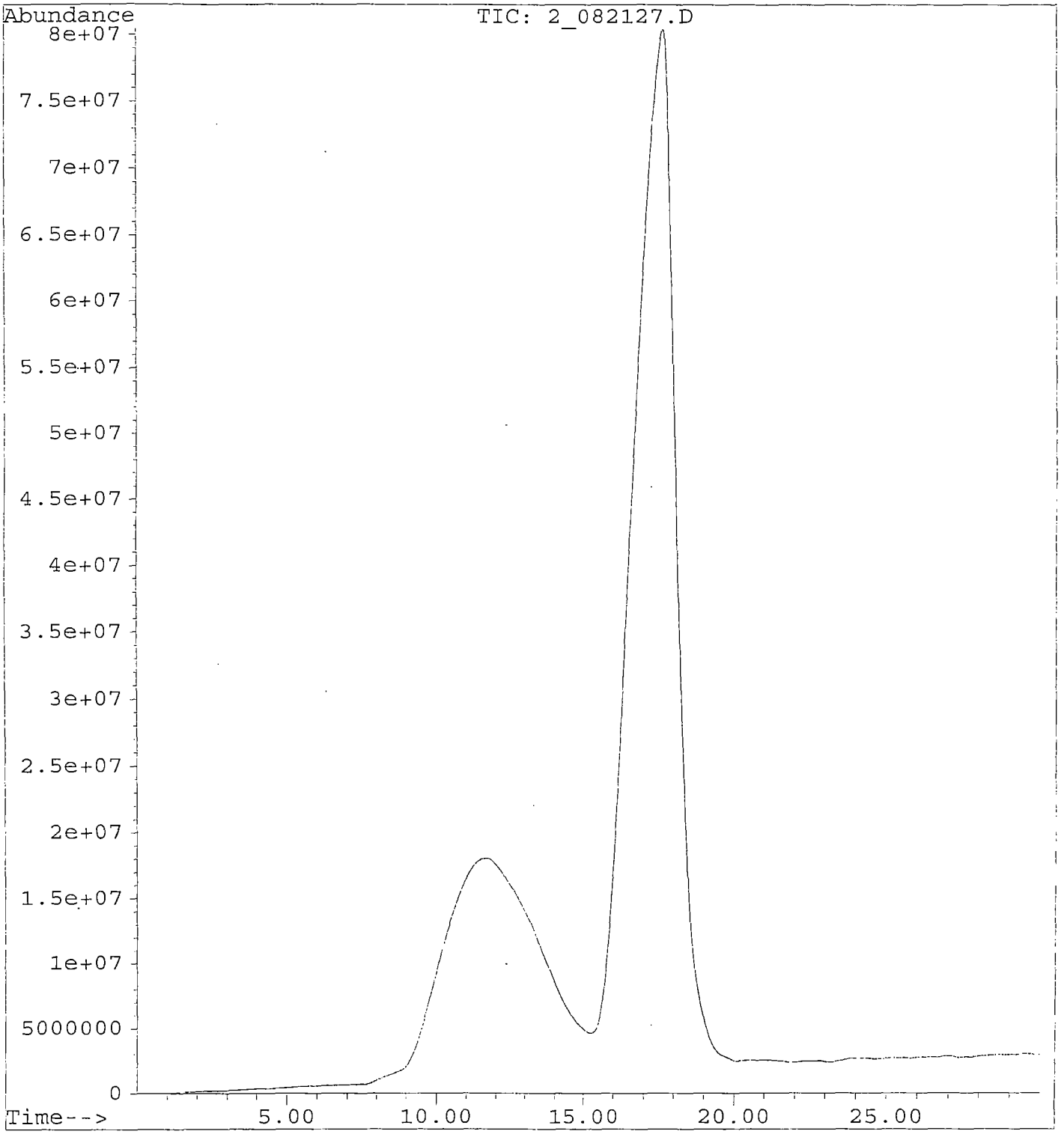
File : C:\HPCHEM\6\DATA\082101\2_082125.D
Operator : CR COL# 364134
Acquired : 22 Aug 01 02:57 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47292.10-E02N7-EPA
Misc Info : COL# 364134
Vial Number: 25



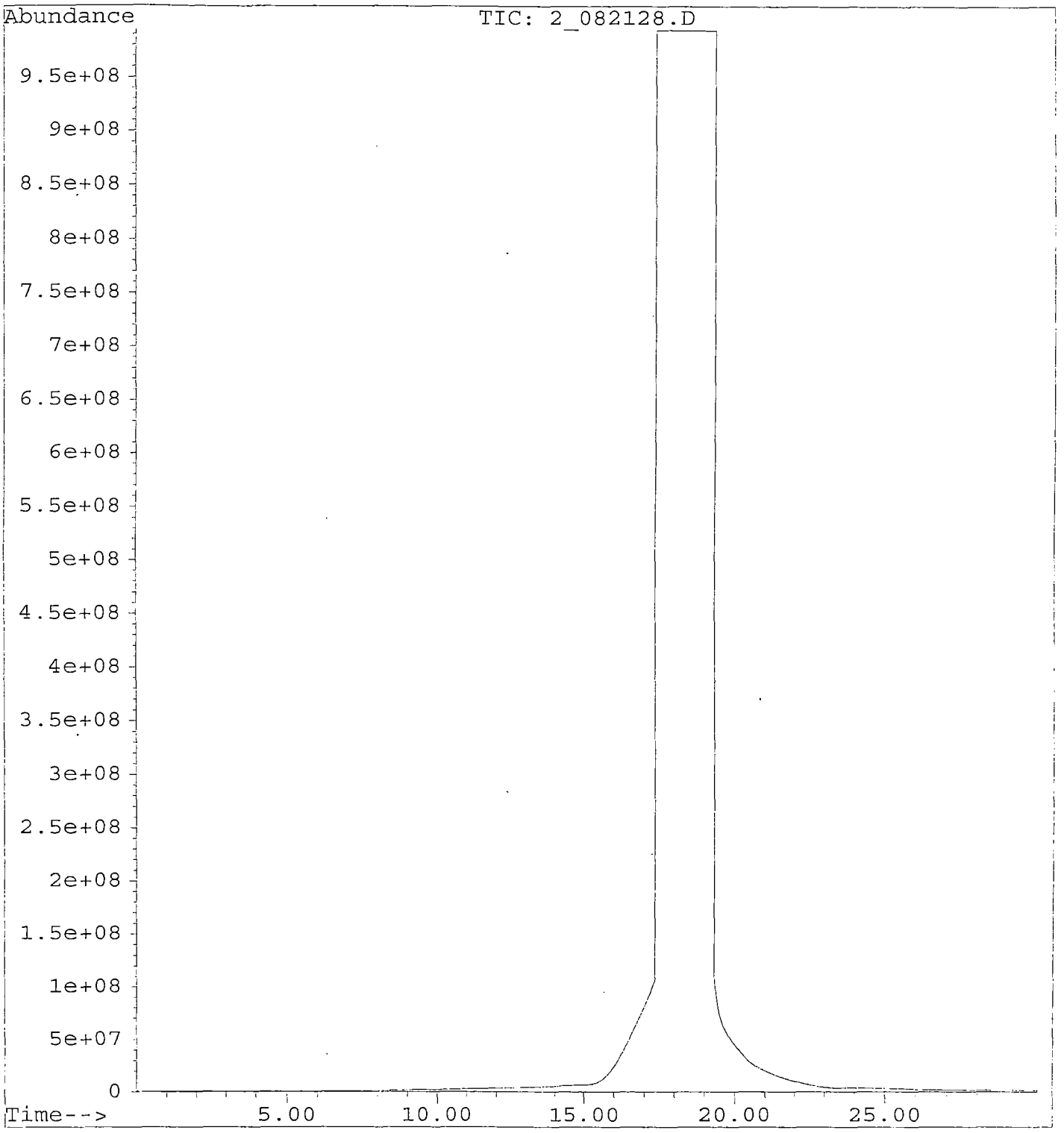
File : C:\HPCHEM\6\DATA\082101\2_082126.D
Operator : CR COL# 364134
Acquired : 22 Aug 01 03:29 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47292.01-E02M8-EPA [1 OF 2]
Misc Info : COL# 364134
Vial Number: 26



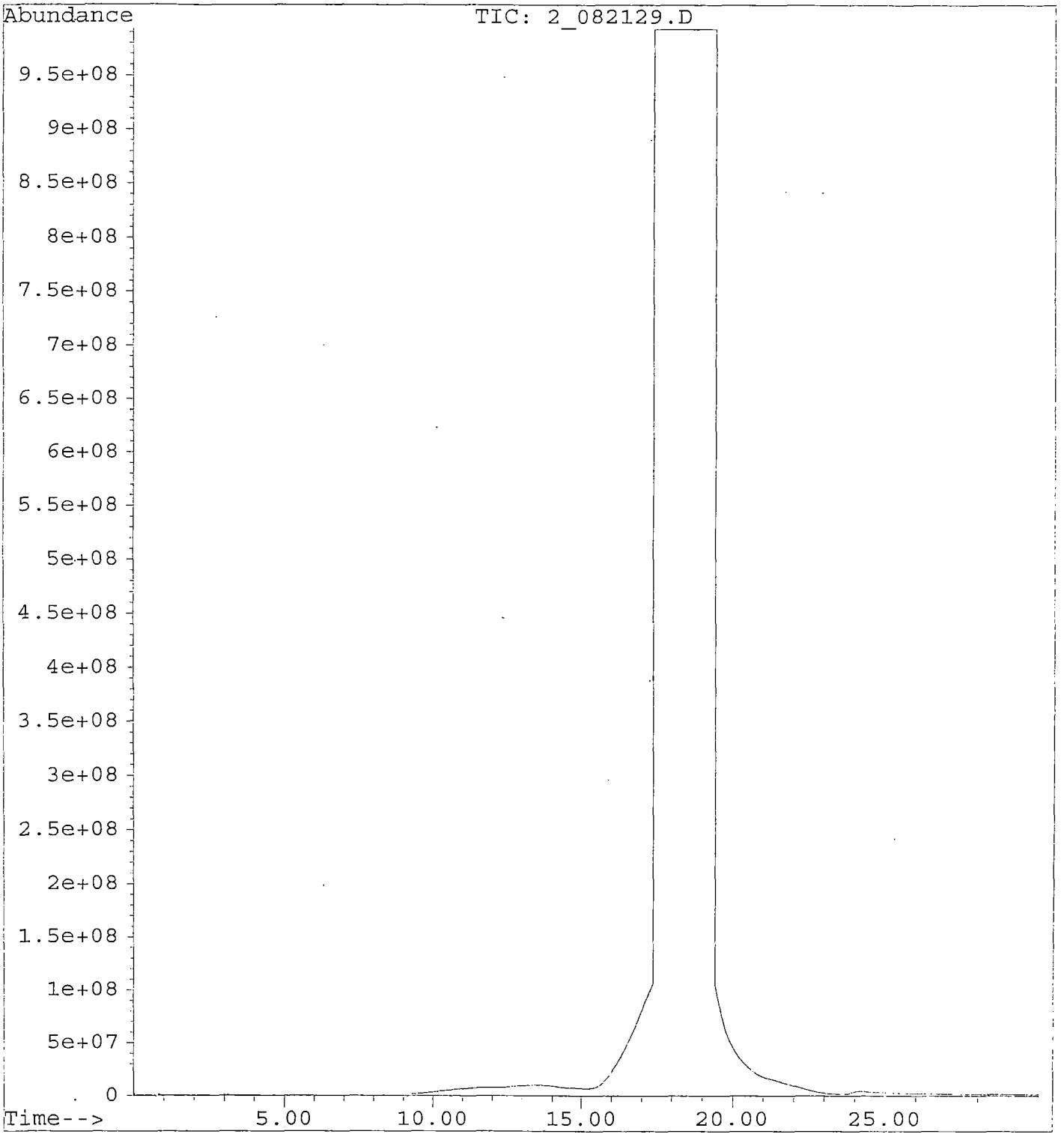
File : C:\HPCHEM\6\DATA\082101\2_082127.D
Operator : CR COL# 364134
Acquired : 22 Aug 01 04:00 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47292.01-E02M8-EPA [2 OF 2]
Misc Info : COL# 364134
Vial Number: 27



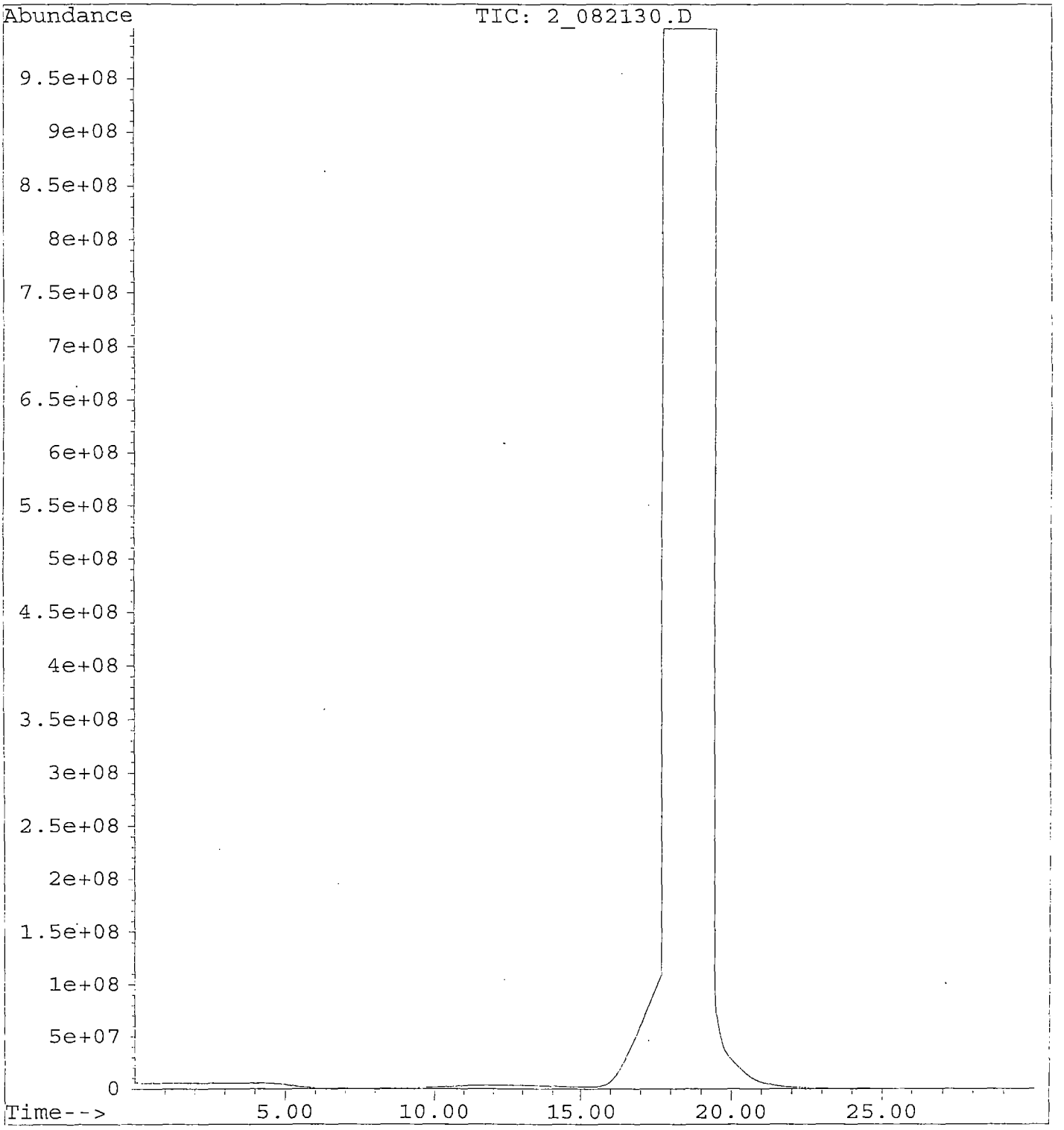
File : C:\HPCHEM\6\DATA\082101\2_082128.D
Operator : CR COL# 364134
Acquired : 22 Aug 01 04:31 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47292.11-E02N8-EPA
Misc Info : COL# 364134
Vial Number: 28



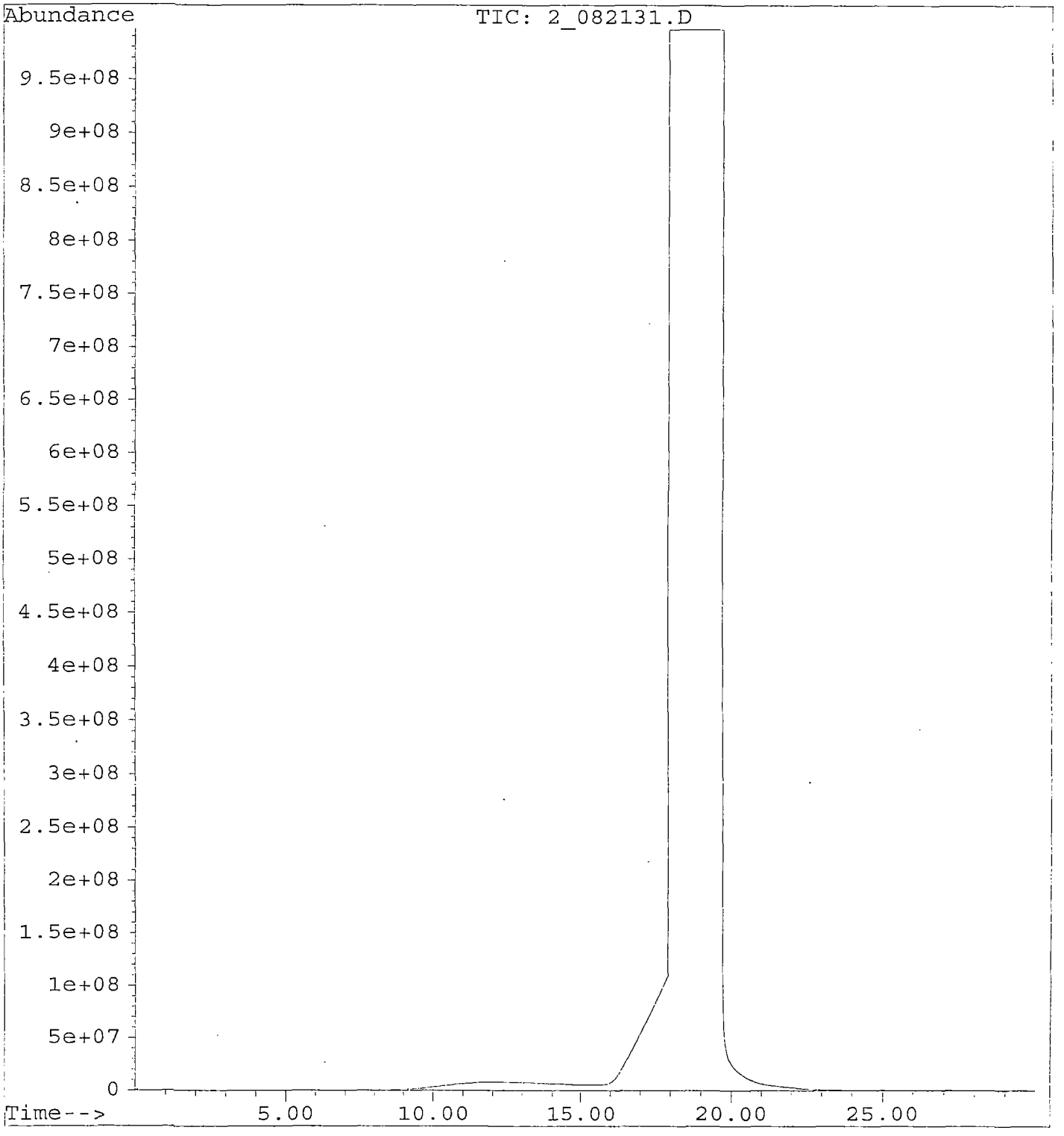
File : C:\HPCHEM\6\DATA\082101\2_082129.D
Operator : CR COL# 364134
Acquired : 22 Aug 01 05:02 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47282.03-E02M7-EPA
Misc Info : COL# 364134
Vial Number: 29



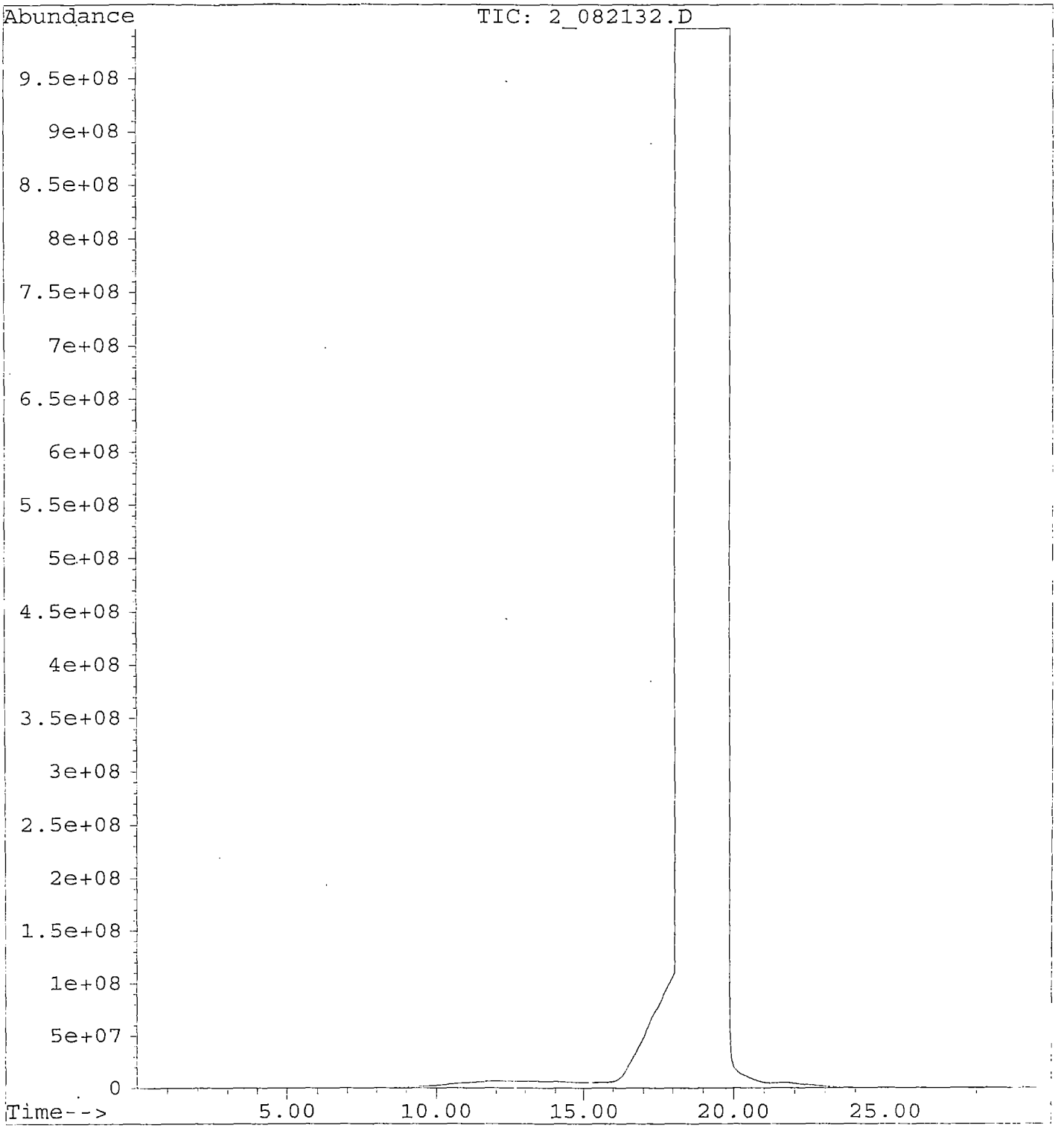
File : C:\HPCHEM\6\DATA\082101\2_082130.D
Operator : CR COL# 364134
Acquired : 22 Aug 01 05:33 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47282.02-E02M6-EPA
Misc Info : COL# 364134
Vial Number: 30



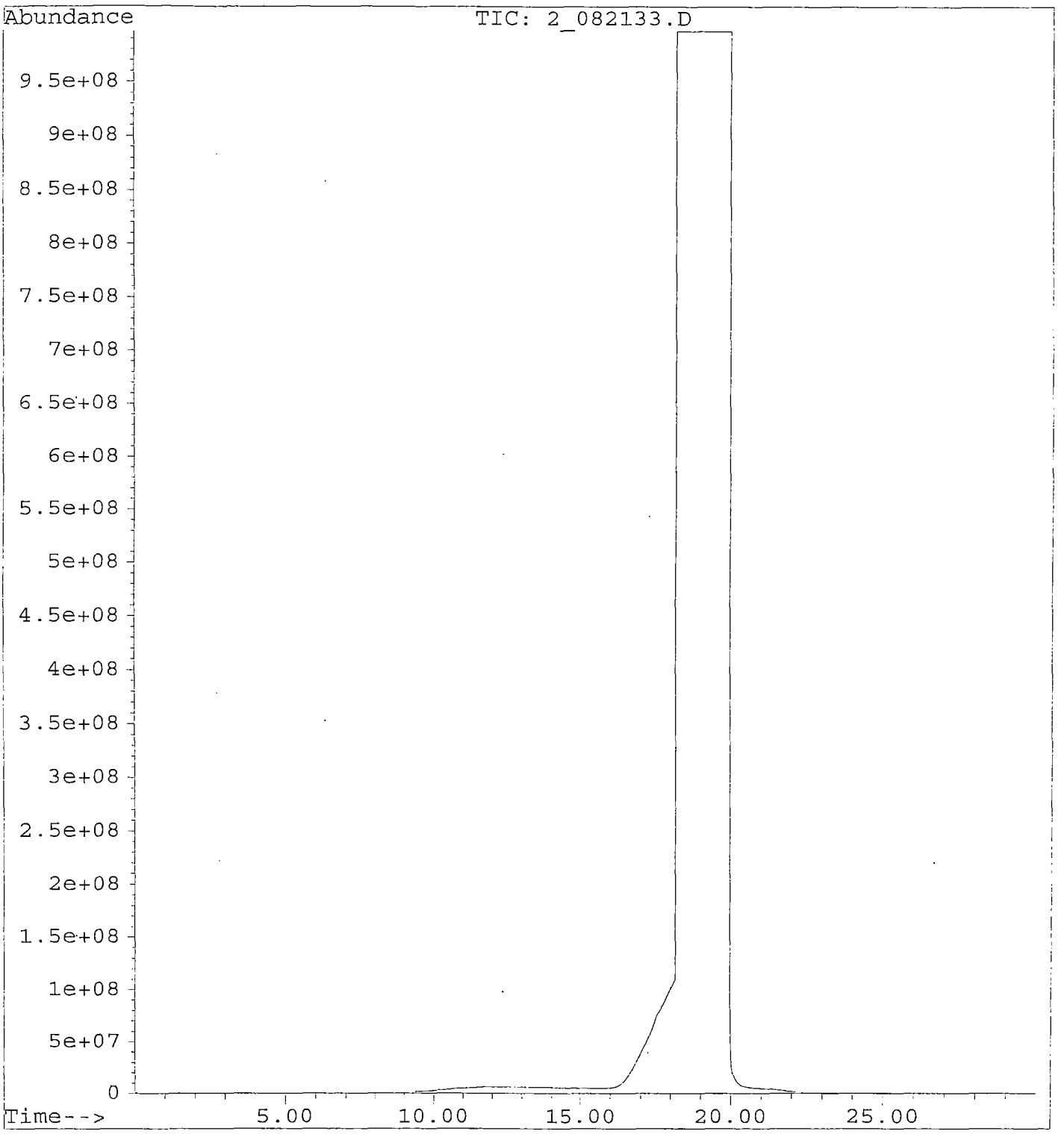
File : C:\HPCHEM\6\DATA\082101\2_082131.D
Operator : CR COL# 364134
Acquired : 22 Aug 01 06:04 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47292.02-E02M9-EPA
Misc Info : COL# 364134
Vial Number: 31



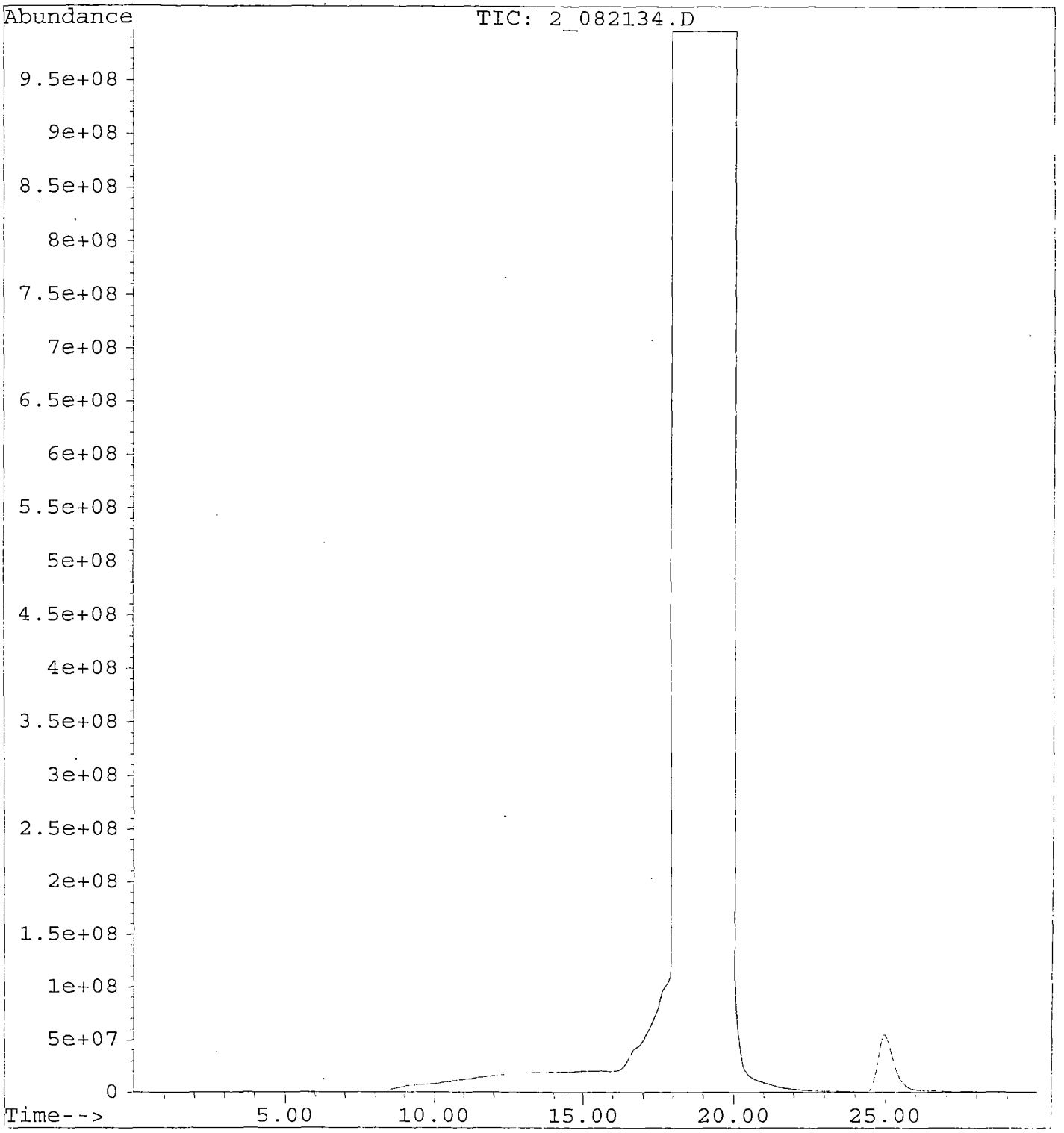
File : C:\HPCHEM\6\DATA\082101\2_082132.D
Operator : CR COL# 364134
Acquired : 22 Aug 01 06:35 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47292.03-E02N0-EPA
Misc Info : COL# 364134
Vial Number: 32



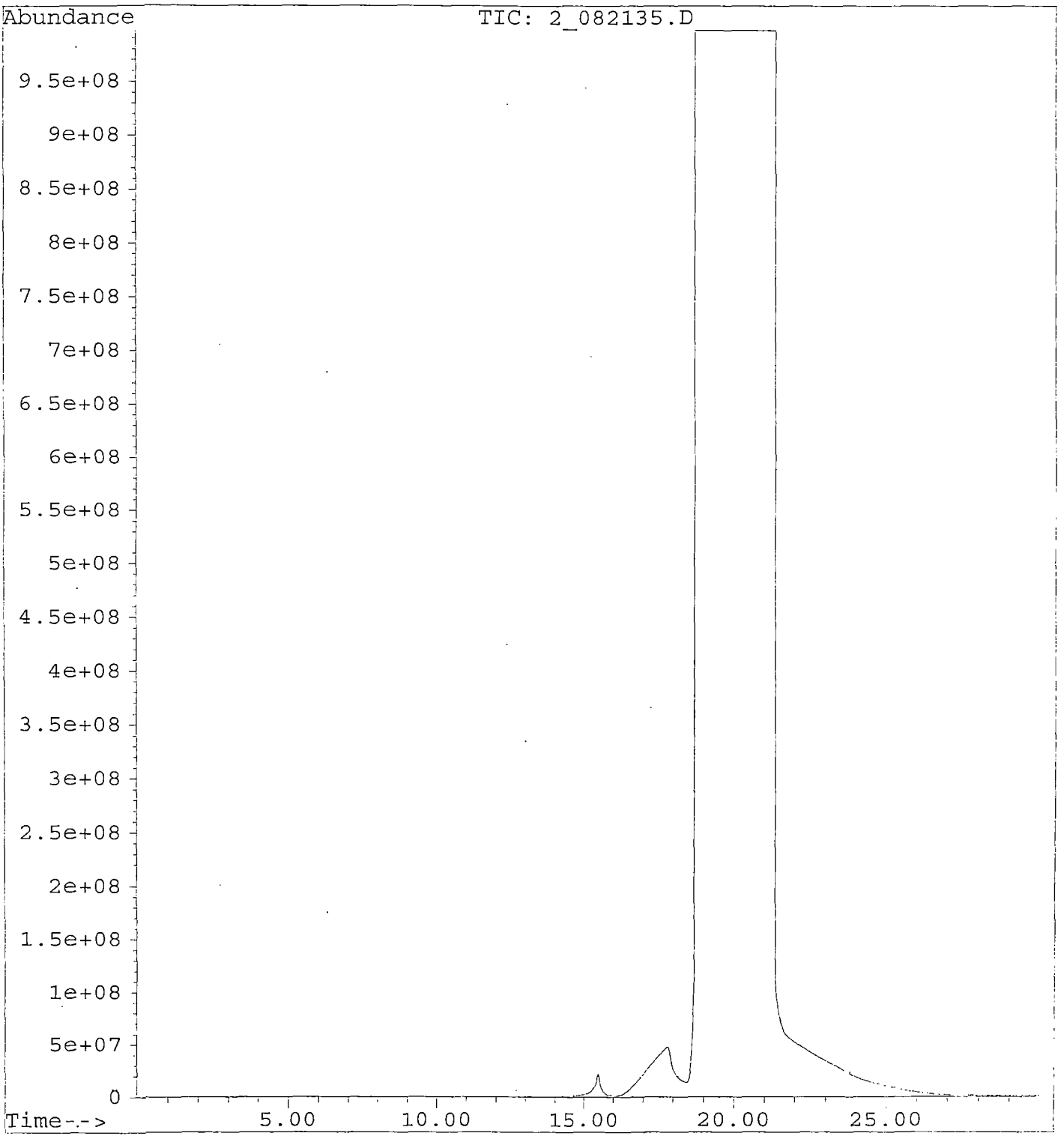
File : C:\HPCHEM\6\DATA\082101\2_082133.D
Operator : CR COL# 364134
Acquired : 22 Aug 01 07:06 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47282.01-E02M5-EPA
Misc Info : COL# 364134
Vial Number: 33



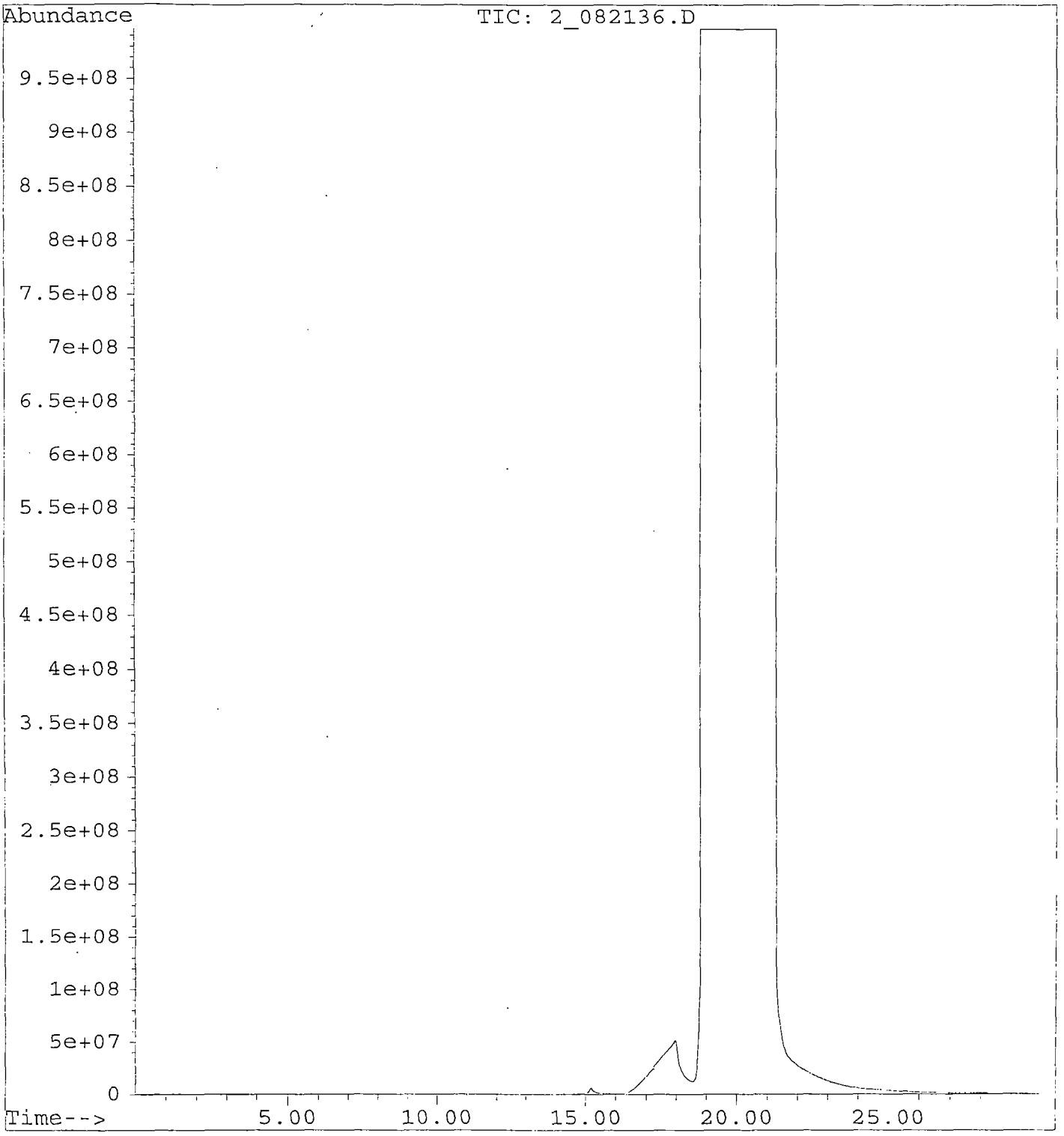
File : C:\HPCHEM\6\DATA\082101\2_082134.D
Operator : CR COL# 364134
Acquired : 22 Aug 01 07:37 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 47292.04-E02N1-EPA
Misc Info : COL# 364134
Vial Number: 34



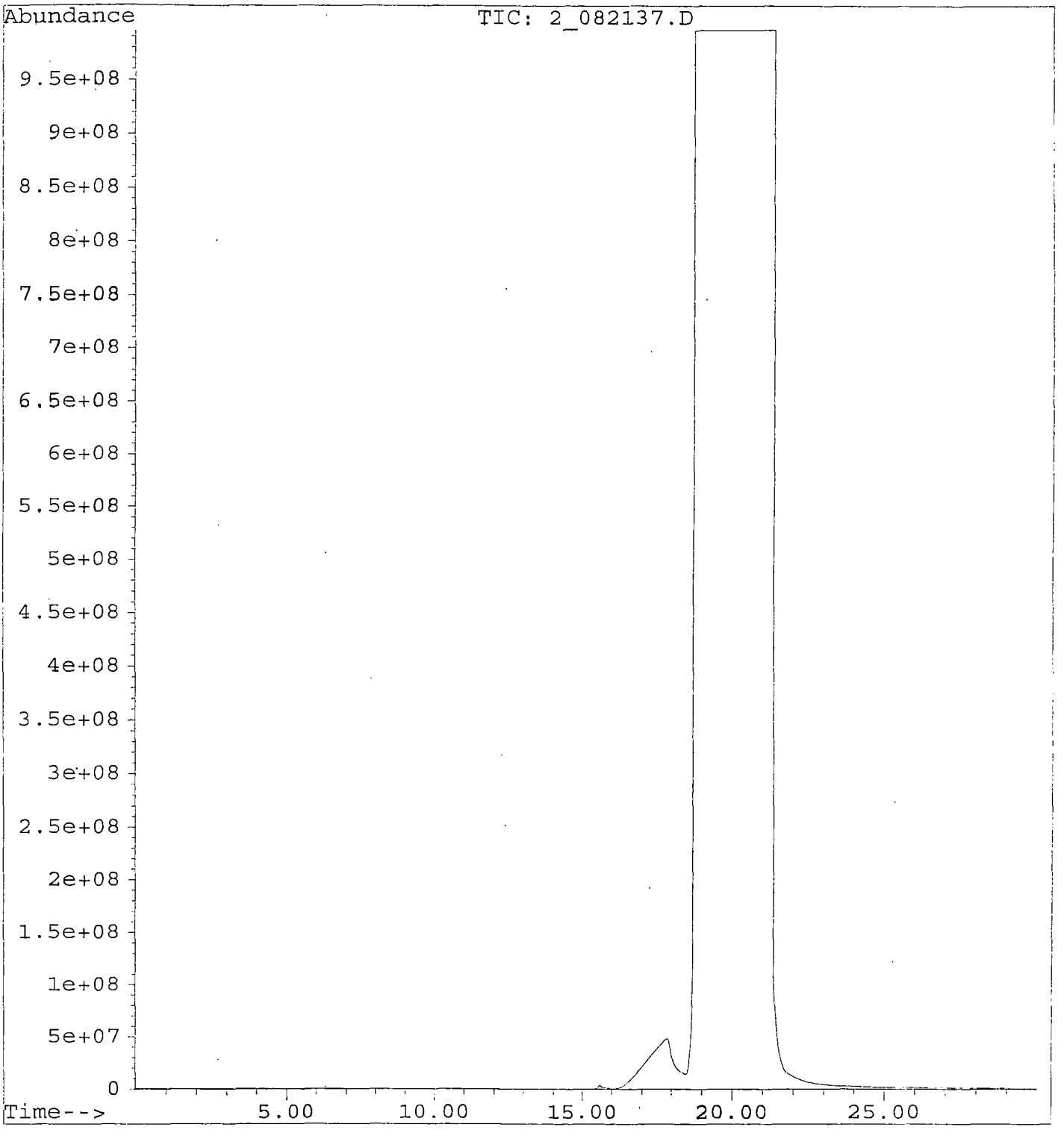
File : C:\HPCHEM\6\DATA\082101\2_082135.D
Operator : CR COL# 364134
Acquired : 22 Aug 01 08:08 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 35



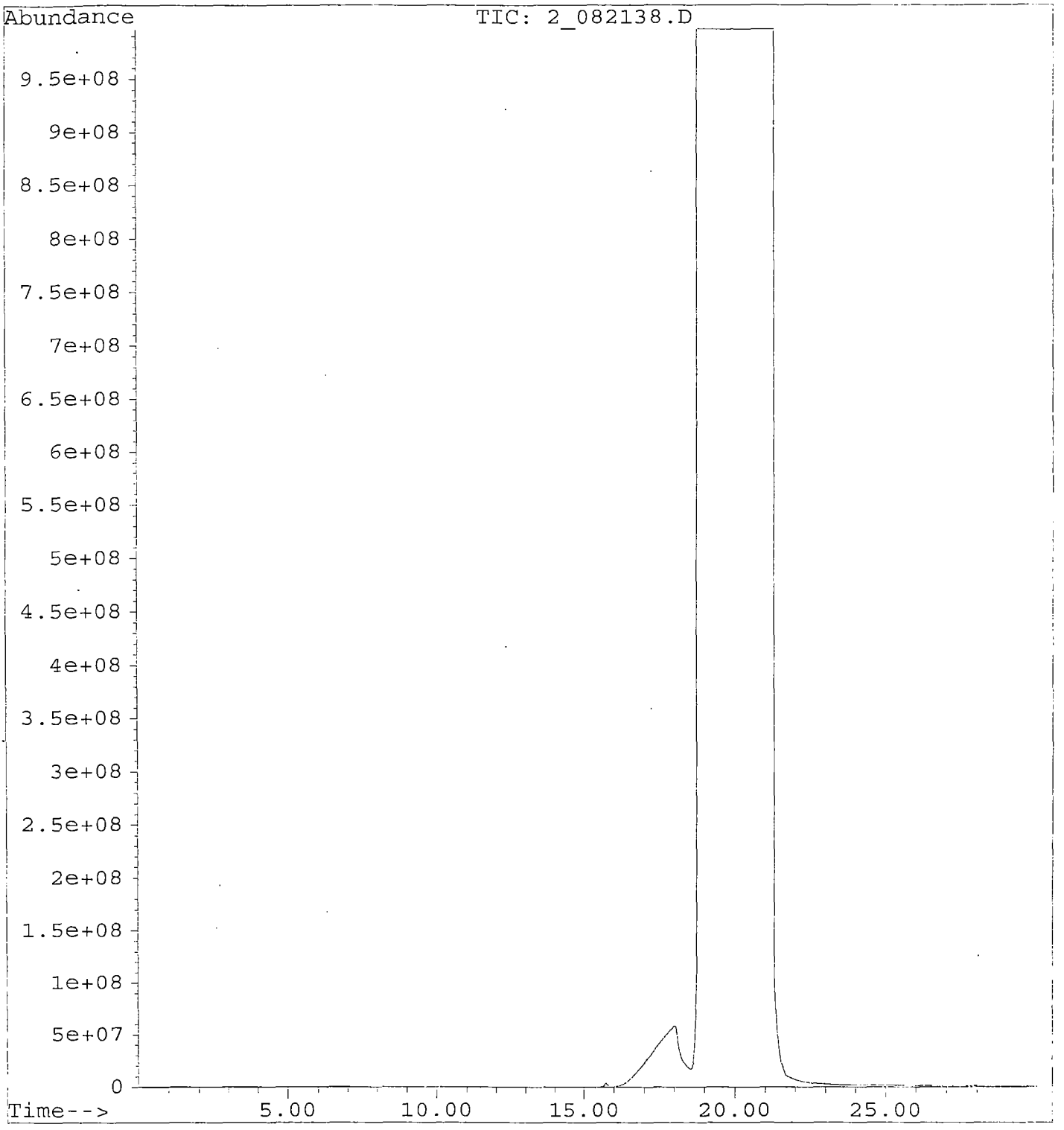
File : C:\HPCHEM\6\DATA\082101\2_082136.D
Operator : CR COL# 364134
Acquired : 22 Aug 01 08:40 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 36



File : C:\HPCHEM\6\DATA\082101\2_082137.D
Operator : CR COL# 364134
Acquired : 22 Aug 01 09:11 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 37

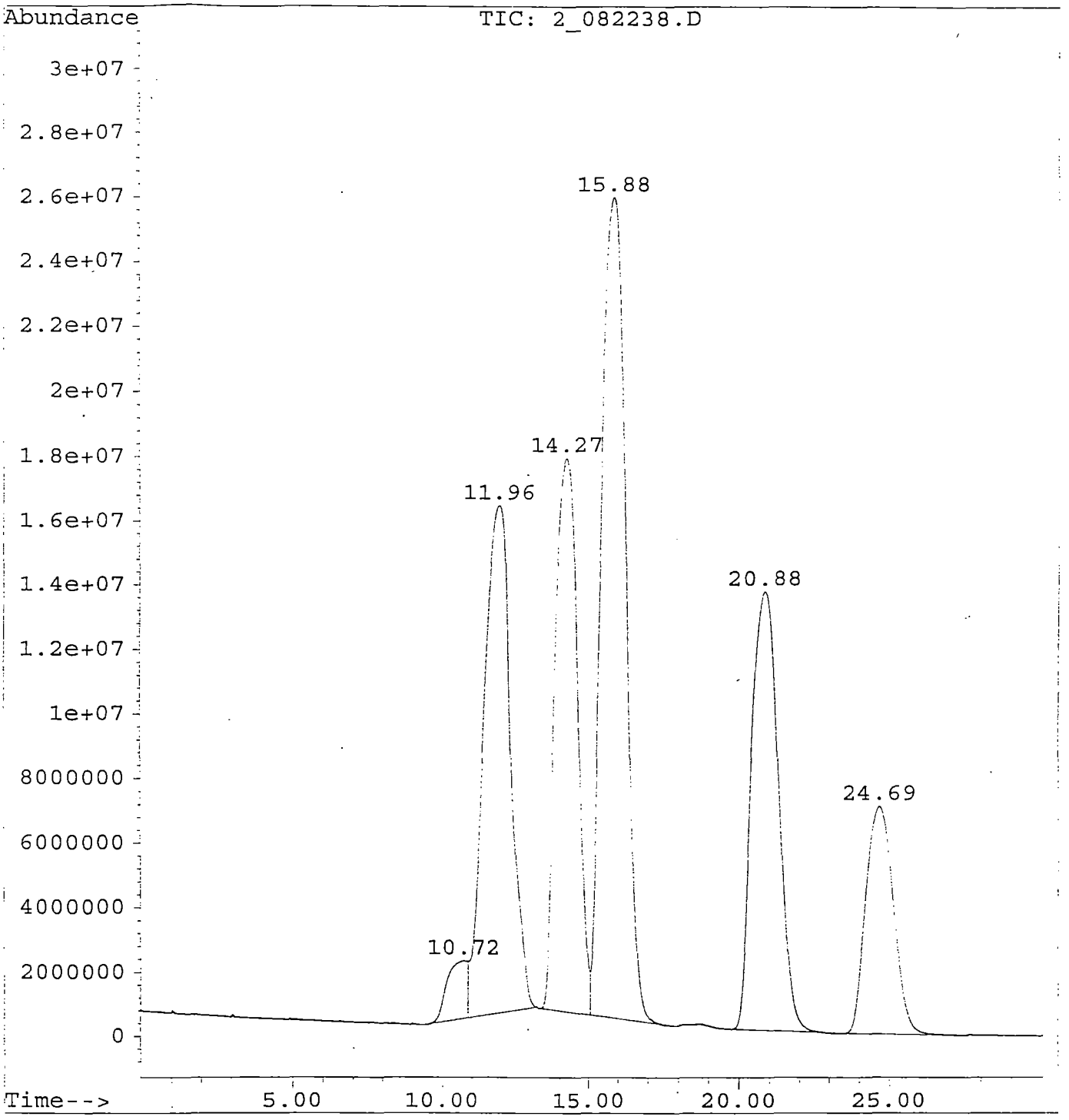


File : C:\HPCHEM\6\DATA\082101\2_082138.D
Operator : CR COL# 364134
Acquired : 22 Aug 01 09:42 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 38



Data File : C:\HPCHEM\6\DATA\082201\2_082238.D
Acq On : 23 Aug 01 07:08 AM
Sample : CAL STD (FINAL)
Misc : COL# 364134

Vial: 38
Operator: CR COL#
Inst : GPC2
Multiplr: 1.00



Chromatographic Resolution Report

Data File : C:\HPCHEM\6\DATA\082201\2_082238.D
Acq On : 23 Aug 01 07:08
Sample : CAL STD (FINAL)
Misc : COL# 364134

Vial: 38
Operator: CR COL#
Inst : GPC2
Multiplr: 1.00

Method : C:\HPCHEM\6\METHODS\GPC.M
Title :

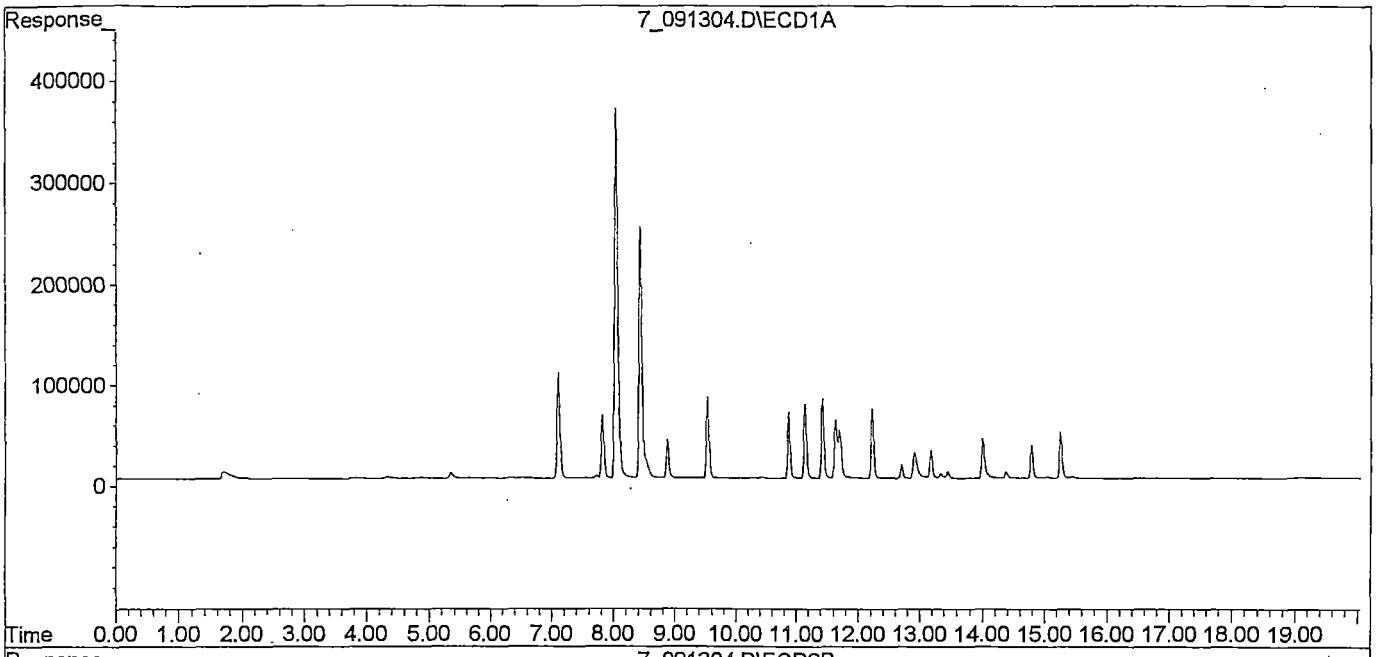
RT#1	RT#2	Resolution
10.722	11.956	2.16
11.956	14.274	100.00
14.274	15.881	92.74
15.881	20.881	100.00
20.881	24.694	100.00

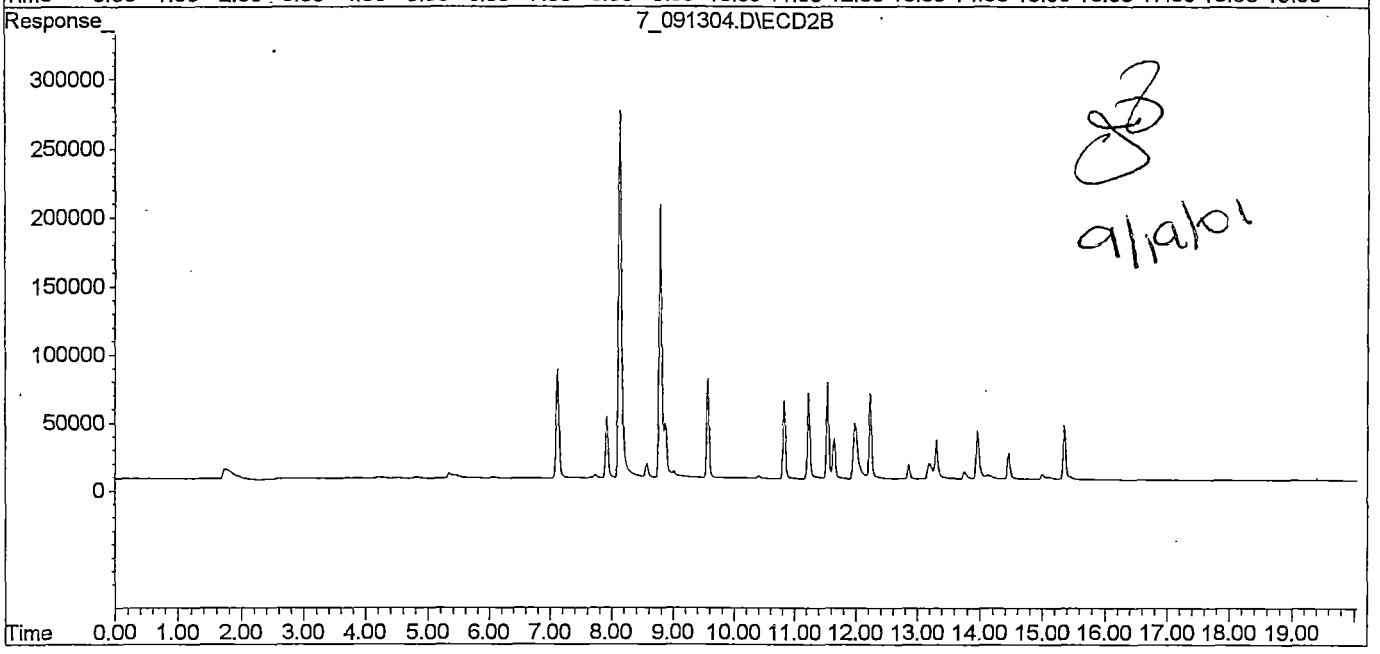
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091304.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091304.D\ECD2B.CH
Acq On : 13 Sep 2001 9:45 Operator: SA
Sample : SB082101C *SB082101C * Inst : HP_07
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 9:03 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





9/19/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091304.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091304.D\ECD2B.CH
Acq On : 13 Sep 2001 9:45 Operator: SA
Sample : SB082101C *SB082101C * Inst : HP_07
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 9:03 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	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

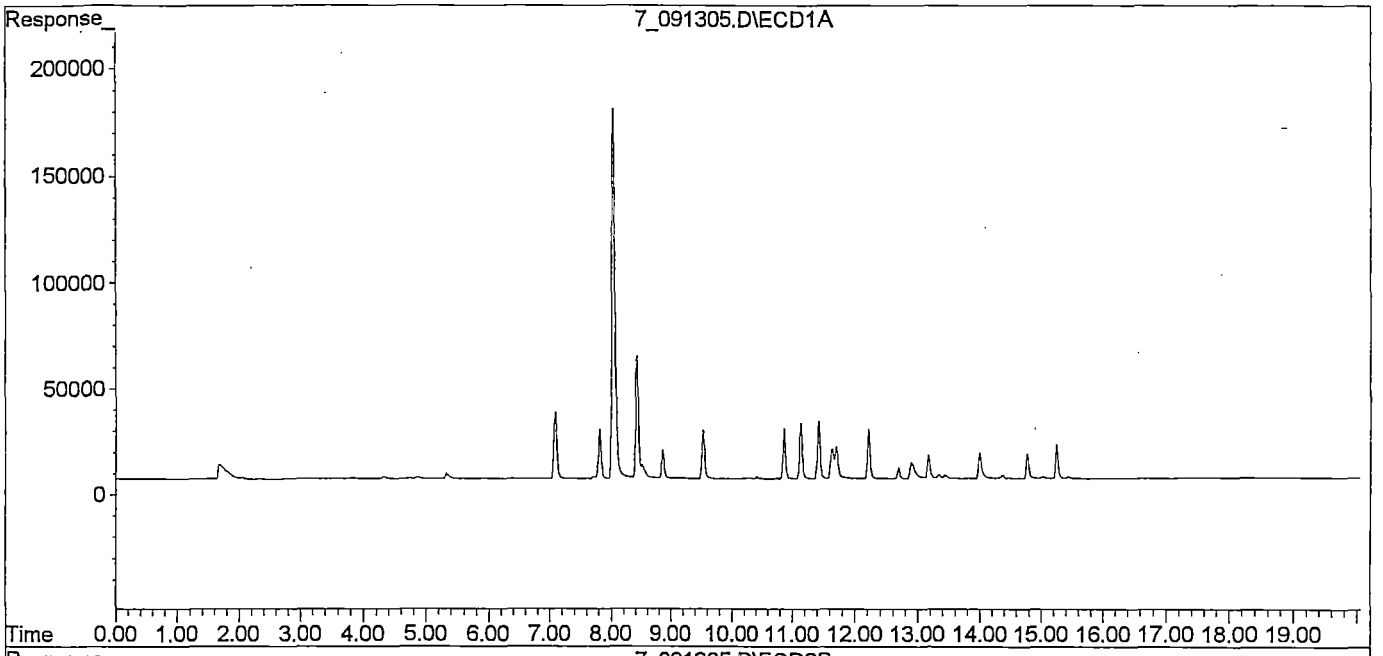
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

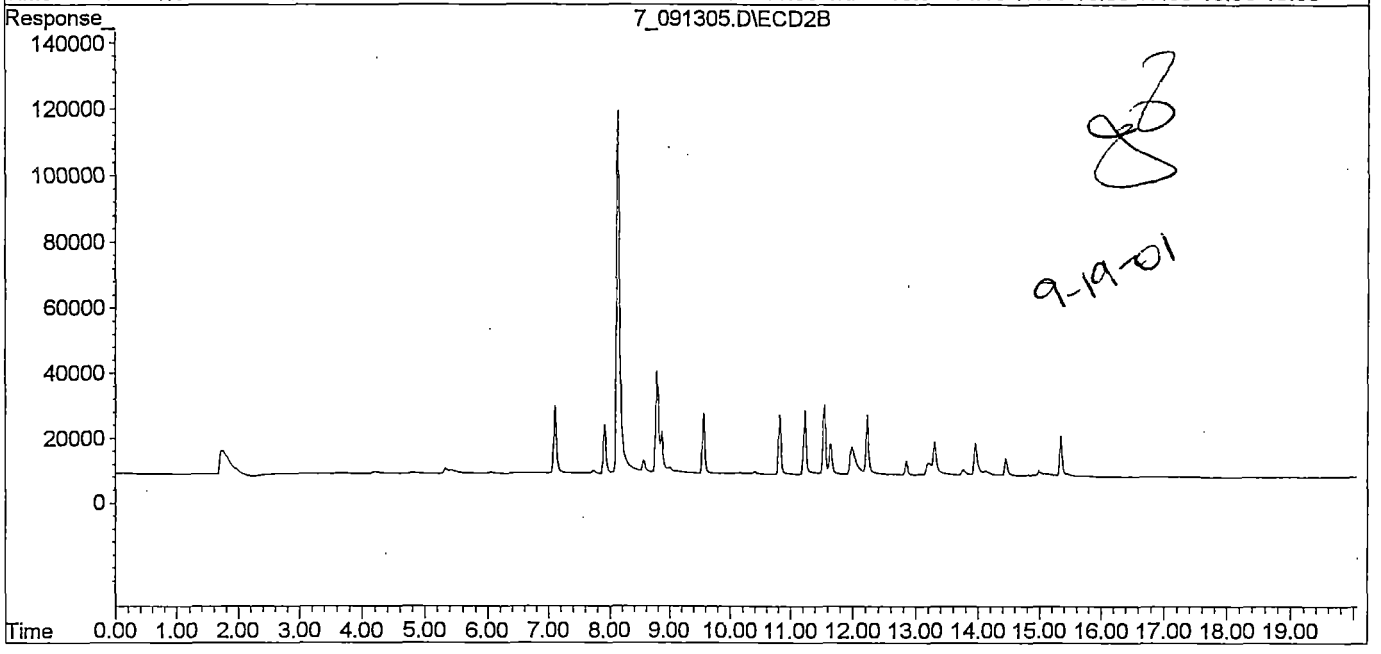
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091305.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091305.D\ECD2B.CH
Acq On : 13 Sep 2001 10:09 Operator: SA
Sample : SB082101D *SB082101D * Inst : HP_07
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 9:09 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





9-19-01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091305.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091305.D\ECD2B.CH
Acq On : 13 Sep 2001 10:09 Operator: SA
Sample : SB082101D *SB082101D * Inst : HP_07
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 9:09 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	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

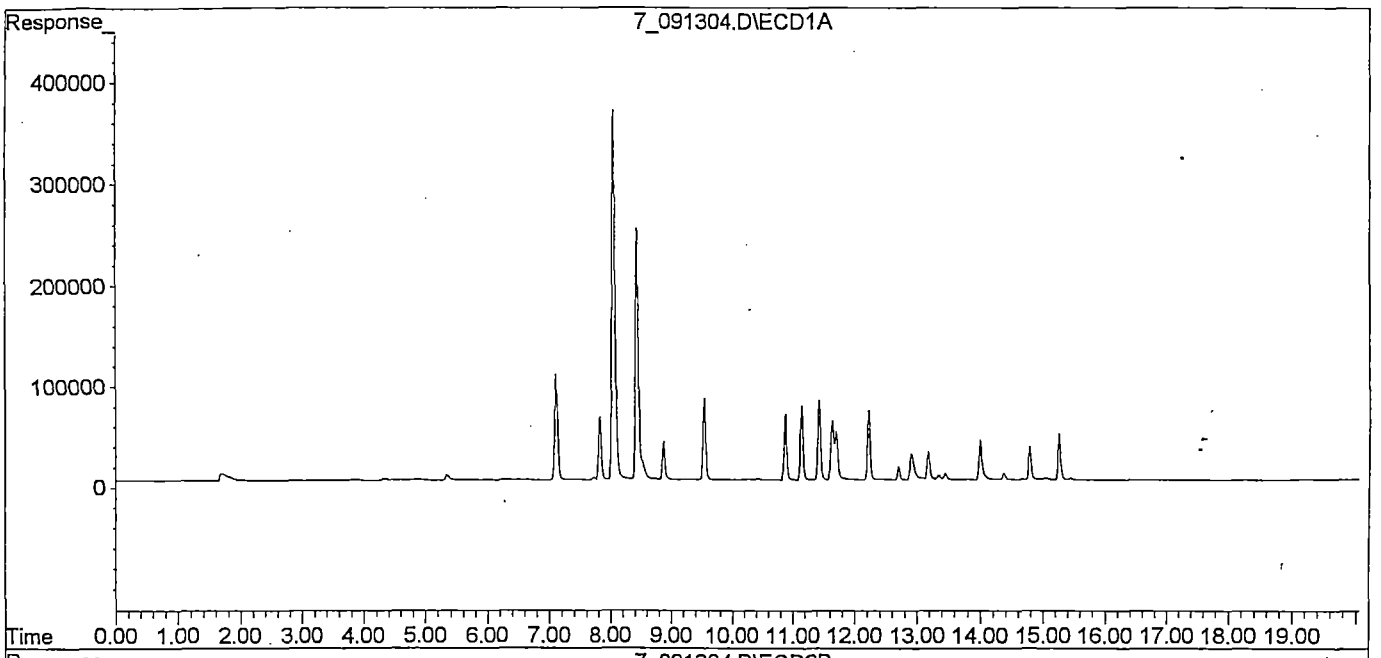
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

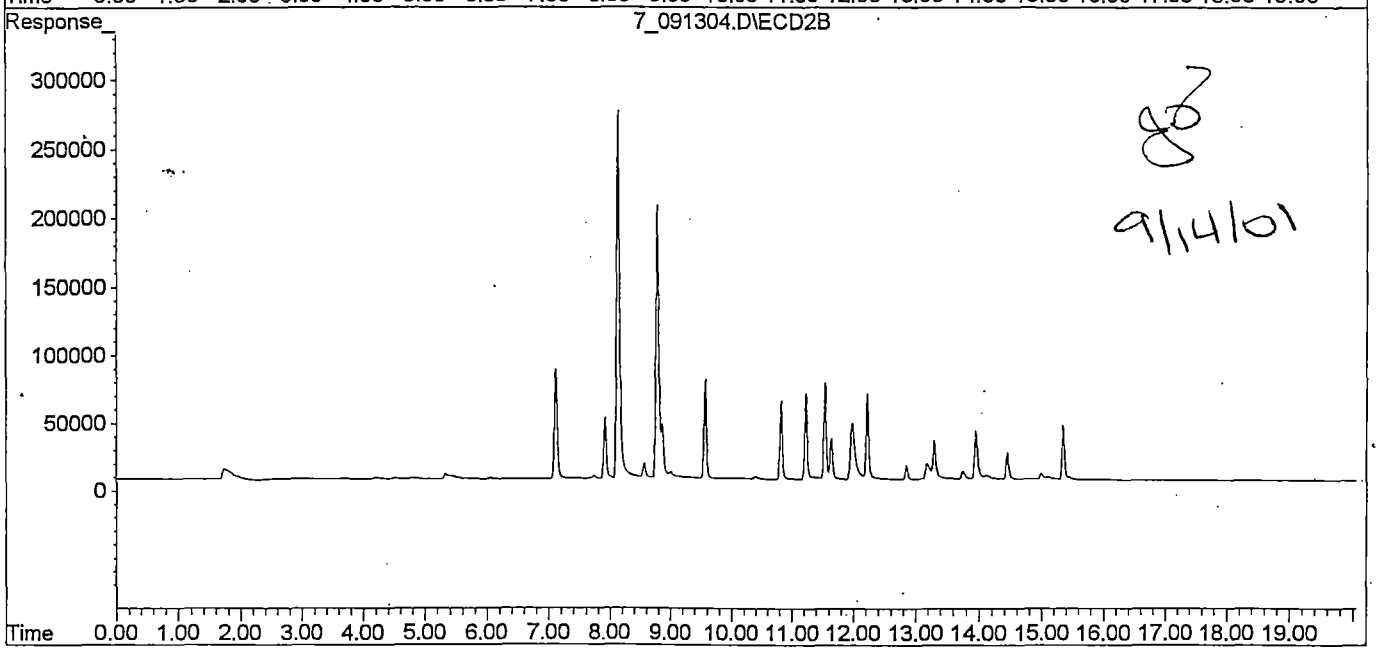
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091304.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091304.D\ECD2B.CH
Acq On : 13 Sep 2001 9:45 Operator: SA
Sample : SB082101C *SB082101C * Inst : HP_07
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 9:03 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_091304.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091304.D\ECD2B.CH
Acq On : 13 Sep 2001 9:45 Operator: SA
Sample : SB082101C *SB082101C * Inst : HP_07
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 9:03 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	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

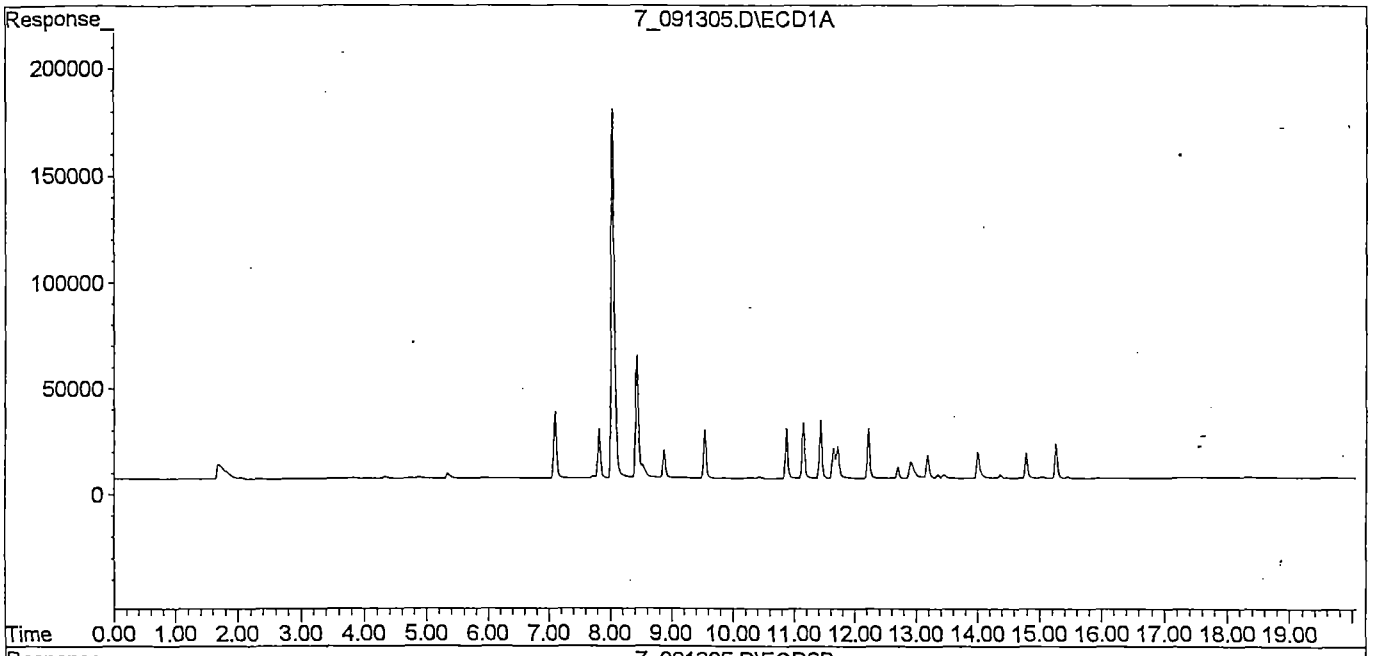
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

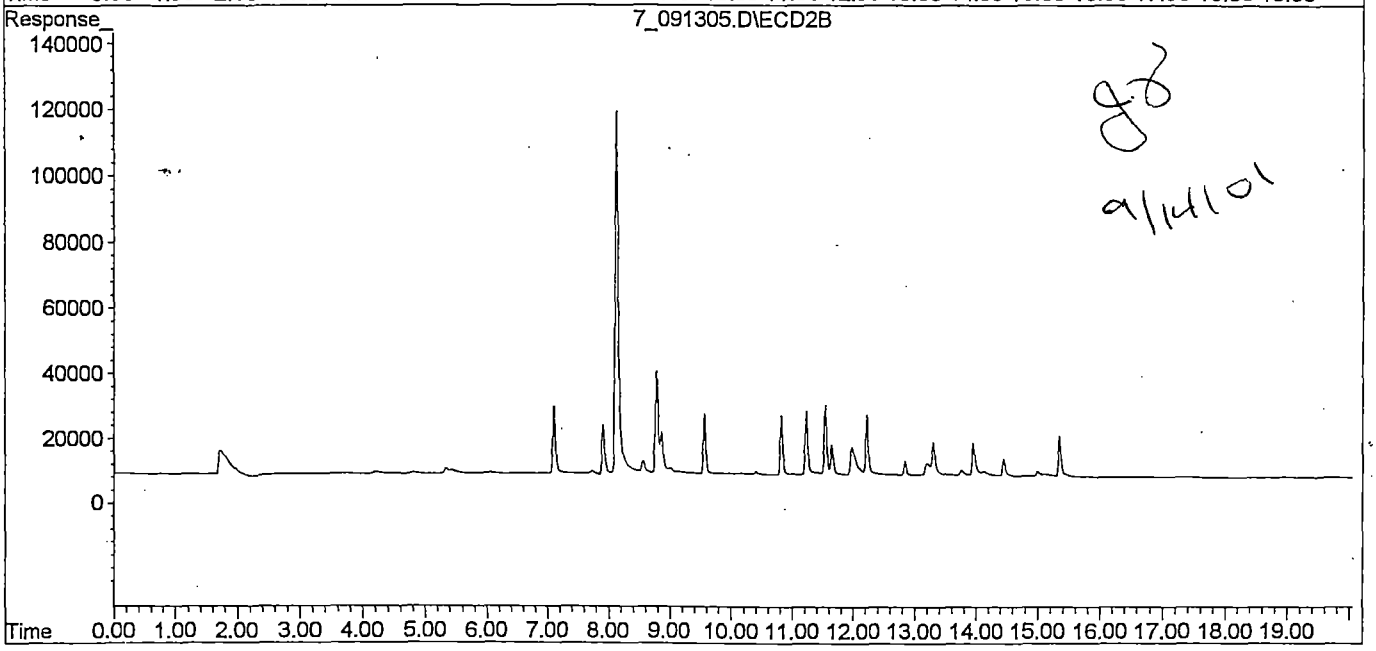
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091305.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091305.D\ECD2B.CH
Acq On : 13 Sep 2001 10:09 Operator: SA
Sample : SB082101D *SB082101D * Inst : HP_07
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 9:09 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





gb
9/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091305.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\7\DATA\09_13_01\7_091305.D\ECD2B.CH
Acq On : 13 Sep 2001 10:09 Operator: SA
Sample : SB082101D *SB082101D * Inst : HP_07
Misc : **1000ML/10ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 14 9:09 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	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): XPCB~~105~~ 112 09/21/01

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

9-13-01 Verification Signature/Date

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~~ 115 09/21/01

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.

Unless noted, Client Ids are the same for the quant. & confirmation columns

9-13-01 9.13.01

Verification Signature/Date 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): XPCBI12

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/13/01 8:30	PIBLK75	5-131-7	7_091301	✓
09/13/01 8:55	AR1660L37W	5-128-7	7_091302	✓
09/13/01 9:19	AR1660L37X	5-128-7	7_091303	
09/13/01 9:45	SB082101C	SB082101C	7_091304	✓ contamination verified as non Aroclor
09/13/01 10:09	SB082101D	SB082101D	7_091305	✓ 9/14/01
09/13/01 10:33	PBLKSE	BL0816SE	7_091306	✓
09/13/01 10:57	PBLKSE	BB0816SE	7_091307	✓ 9/14/01
09/13/01 11:21	ELCS1	LC0816SE	7_091308	✓
09/13/01 11:46	ELCS2	LD0816SE	7_091309	✓
09/13/01 12:10	PIBLK76	5-131-7	7_091310	N.U.
09/13/01 12:34	AR1660L37Y	5-128-7	7_091311	
09/13/01 12:58	AR1660L37Z	5-128-7	7_091312	N.U.
09/13/01 13:23	E02M5	47282.01	7_091313	OK
09/13/01 13:47	E02M6	47282.02	7_091314	OK
09/13/01 14:11	E02M7	47282.03	7_091315	OK
09/13/01 14:36	HEX		7_091316	
09/13/01 15:00	HEX		7_091317	
09/13/01 15:25	PIBLK77	5-131-7	7_091318	✓
09/13/01 15:49	AR1660L371	5-128-7	7_091319	
09/13/01 16:13	AR1660L372	5-128-7	7_091320	✓
09/13/01 17:43	E02M8	47292.01	7_091321	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

9/14/01
Verification Signature/Date

9.14.01
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): XPCBI12

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
09/13/01 18:07	E02M9 X	47292.02	7_091322	OK
09/13/01 18:31	E02N0 X	47292.03	7_091323	OK
09/13/01 18:55	E02N1 X	47292.04	7_091324	10DX
09/13/01 19:19	E02N2 X	47292.05	7_091325	
09/13/01 19:43	E02N3 X	47292.06	7_091326	OK
09/13/01 20:07	E02N4 X	47292.07	7_091327	OK
09/13/01 20:32	E02N5 X	47292.08	7_091328	OK
09/13/01 20:55	E03N6 X	47292.09	7_091329	OK
09/13/01 21:20	HEX		7_091330	
09/13/01 21:44	HEX		7_091331	
09/13/01 22:08	PIBLK78 X	5-131-7	7_091332	✓
09/13/01 22:32	AR1660L373 X	5-128-7	7_091333	✓
09/13/01 22:56	AR1660L374	5-128-7	7_091334	
09/13/01 23:20	E02N7 X	47292.10	7_091335	OK
09/13/01 23:44	E02N8 X	47292.11	7_091336	OK
09/14/01 00:08	E02N8MS X	47292.12 MS	7_091337	OK
09/14/01 00:32	E02N8MSD X	47292.13 MSD	7_091338	OK
09/14/01 00:56	E02N9 X	47292.14	7_091339	OK
09/14/01 1:20	E02P0 X	47292.15	7_091340	OK
09/14/01 1:44	E02P1 X	47292.16	7_091341	OK
09/14/01 2:08	E02P2 X	47292.17	7_091342	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

Verification Signature/Date

Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-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

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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-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

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 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	
09/19/01 8:41	E02S4	47294.10	7_091863	
09/19/01 9:05	E02S5	47294.11	7_091864	
09/19/01 9:30	E02S6	47294.12	7_091865	
09/19/01 9:54	E02S7	47294.13	7_091866	
09/19/01 10:18	E02S8	47294.14	7_091867	

Unless noted, Client Ids are the same for the quant. & confirmation columns

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	
09/19/01 11:07	E02S8MSD	47294.16MSD	7_091869	
09/19/01 11:32	E02N2	47292.05	7_091870	NJ.
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

9-19-01
Verification Signature/Date

Analyst Signature/Date

Page No.: 6

	SV	OD ST • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

[X] RUSH [ ] REEXTRACT [ ] TCLP [ ] DXIN

SAMPLE EXTRACTION L

8/28

BATCH: 010816SE

EXTRACT DATE: 2001-08-16 12:14

002976

SAMPLE ID (EPISODE #)	CLIENT CASE	DATE RECEIVED CLIENT SAMPLE ID	MATRIX/LEVEL	SAMPLE pH	% MOISTURE %	DRY WEIGHT g	AMOUNT EXTRACTED g • (ml)	EXTRACTED VOLUME ml	GPC VOLUME ml	GPC ELUTE VOL ml	FLORISIL VOL CONC ml	FLORISIL FIN VOL CONC ml	VOL SV (P) ml	FIN PROCESS VOLUME ml	SCREEN Y/N Y/N	MS SV (P) µL	SURR SV (P) µL	BASE pH CONFIRMATION	ACID pH CONFIRMATION
BL0816SE			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000		
BB0816SE			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000		
LC0816SE			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
LD0816SE			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
47282.01 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.35	82.92	5.2	30.28	350	10/5	45	2.0		5.0	5.0	N		1000		
47282.02 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.54	59.36	12.3	30.31	350	10/5	45	2.0		5.0	5.0	N		1000		
47282.03 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.15	75.71	7.4	30.48	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.01 GC699	EPA 29602	08/16/2001 08:15 E02M8	S/L	6.89	82.59	5.3	30.19	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.02 GC699	EPA 29602	08/16/2001 08:15 E02M9	S/L	7.44	82.71	5.2	30.27	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.03 GC699	EPA 29602	08/16/2001 08:15 E02N0	S/L	7.54	82.93	5.2	30.34	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.04 GC699	EPA 29602	08/16/2001 08:15 E02N1	S/L	7.10	50.84	14.9	30.30	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.05 GC699	EPA 29602	08/16/2001 08:15 E02N2	S/L	7.16	14.79	25.9	30.41	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.06 GC699	EPA 29602	08/16/2001 08:15 E02N3	S/L	7.65	15.12	25.8	30.38	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.07 GC699	EPA 29602	08/16/2001 08:15 E02N4	S/L	7.47	16.72	25.3	30.40	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.08 GC699	EPA 29602	08/16/2001 08:15 E02N5	S/L	7.38	13.45	26.3	30.39	350	10/5	45	2.0		5.0	5.0	N		1000		

INITIALS

WEIGHING:	CD	EXTRACTION:	BTB	FLORISIL:
CLEANUP:	CR	KD:	GS	CH2Cl2
BLOWDOWN:	SA	TV:	GS	acetone
SURROG. SPIKER:	BTB	VERIFIER:	CD	Hexane
MATRIX SPIKER:	BTB	VERIFIER:	CD	
SUBMITTED BY:	SA	REVIEWED BY:	08/27	

ID NUMBERS

FLORISIL CARTRIDGE #:

GPC COLUMN #: 364134 (08-21-01) #3640A

SURROGATES ID CONC #: 5-157-7

MATRIX SPIKE SOLID/CONC #(s): 5-146-7

SOP - METHOD # : SW-SOP- 415 Rev. 1.0

P.9 38 Book 1 Rear

COMMENTS

SB#082101C
SB#082101D
Extracts went through silgel & acid clean-up.

	SV	ST • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

[X] RUSH [ ] REEXTRACT [ ] TCLP [ ] DXIN

SAMPLE EXTRACTION L(

BATCH: 010816SE

EXTRACT DATE: 2001-08-16 12:14

002976
Page: 2 of 2

SAMPLE ID (EPISODE #)	CLIENT CASE	DATE RECEIVED CLIENT SAMPLE ID	MATRIX/LEVEL	SAMPLE pH	% MOISTURE	DRY WEIGHT	AMOUNT EXTRACTED	EXTRACTED VOLUME	GPC VOLUME	GPC ELUTE VOL	FLORISIL VOL CONC	FLORISIL FIN VOL CONC	VOL SV (P)	FIN PROCESS VOLUME	SCREEN Y/N	MS SV (P)	SURR SV (P)	BASE pH CONFIRMATION	ACID pH CONFIRMATION
					%	g	g • (ml)	ml	ml	ml	ml	ml	ml	ml	Y/N	µL	µL		
47292.09 GC699	EPA 29602	08/16/2001 08:15 E03N6	S/L	7.75	13.61	26.1	30.25	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.10 GC699	EPA 29602	08/16/2001 08:15 E02N7	S/L	7.67	13.76	26.2	30.34	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.11 GC699	EPA 29602	08/16/2001 08:15 E02N8	S/L	7.46	12.74	26.4	30.28	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.12MS GC699	EPA 29602	08/16/2001 08:15 E02N8MS	S/L	7.46	12.74	26.5	30.37	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
47292.13MSD GC699	EPA 29602	08/16/2001 08:15 E02N8MSD	S/L	7.46	12.74	26.4	30.31	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
47292.14 GC699	EPA 29602	08/16/2001 08:15 E02N9	S/L	7.65	12.94	26.5	30.40	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.15 GC699	EPA 29602	08/16/2001 08:15 E02P0	S/L	7.38	11.48	26.8	30.27	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.16 GC699	EPA 29602	08/16/2001 08:15 E02P1	S/L	7.60	14.87	25.9	30.41	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.17 GC699	EPA 29602	08/16/2001 08:15 E02P2	S/L	7.64	15.11	25.7	30.29	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.18 GC699	EPA 29602	08/16/2001 08:15 E02P3	S/L	7.61	17.41	25.1	30.36	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.19 GC699	EPA 29602	08/16/2001 08:15 E02P4	S/L	7.45	11.88	26.9	30.47	350	10/5	45	2.0		5.0	5.0	N		1000		

INITIALS

WEIGHING:	SA	EXTRACTION:	BTB	FLORISIL:	
CLEANUP:	CR	KD:	GS		CH2Cl2
BLOWDOWN:	SA	TV:	GS		acetone
SURROG. SPIKER:	BTB	VERIFIER:	CD		Hexane
MATRIX SPIKER:	BTB	VERIFIER:	CD		
SUBMITTED BY:	SA	REVIEWED BY:			08/27

ID NUMBERS

FLORISIL CARTRIDGE #:

GPC COLUMN #: 364134 (08-21-01) #3640A

SURROGATES ID CONC #: 5-157-7

MATRIX SPIKE SOLID/CONC #(s): 5-146-7

SOP - METHOD # : SWL-OP- 415 Rev. 1.0

COMMENTS

SB#082101C
SB#082101D
Extracts went through sfgel & acid clean-up

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Southwest Laboratory of Oklahoma
1700 W. Albany Suite C
Broken Arrow, OK 74012-1421

INTERNAL CHAIN OF CUSTODY

Date	8/16/01
Episode	**47292**
Client	**EPA**
Project	OLM04.2
Received	08/16/01

Test Code	Cont ID	(Circle the Sample Numbers Checked out) #	#	#	#	#	#	#	Date/Time Out	Analyst	Date/Time In
GC699	A	1	2	3	4	5	6	7			
		8	9	10	11	12	13	14	8/16 2:00	SA	8/16 4:00
		15	16	17	18	19					
IN660	A	1	2	3	4	5	6	7			
		8	9	10	11	12	13	14	8/17 12:00	M	8/18 08:00
		15	16	17	18	19					

EXTRACT RECEIPT LOG

SWL-OP-301 REV. NO.: _____
SWL OP-301-EXTRCPT-6
SWOK/AATS
OP301a3.doc

Date	Time	Sample Episode Number(s)	Client	Extr. Chemist Initials	Re-extract? (Y/N)	Comments	No. of Samp.
08/24	9:30	47280.01-22 MS/MSD	EPA	SA	N	GC699	22
08/26	6:38p	47158.11	EPA	SA	Y	GC699	X
08/26	6:38p	47352.01-06 MS,MSD	EPA	SA	N	GC699	6
8/27	10:00a	47377.01-07	Enkafe-D	GS	N	GC341	7
8/27	4:30p	47400.01-07 MS MSD	Adlittle	GS	N	GC310	7
08/27	9:00p	47281.01-22 MS,MSD	EPA	SA	N	GC699	22
08/27	9:00p	47282.01-03	EPA	SA	N	GC699	3
08/27	9:00p	47292.01-19 MS,MSD	EPA	SA	N	GC699	19

450

	SV	DD ST • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

[X] RUSH [ ] REEXTRACT [ ] TCLP [ ] DXIN

SAMPLE EXTRACTION LO

8/27

BATCH: 010816SE

EXTRACT DATE: 2001-08-16 12:14

002976

Page: 1 of 2

SAMPLE ID (EPISODE #)	CLIENT CASE	DATE RECEIVED CLIENT SAMPLE ID	MATRIX/LEVEL	SAMPLE pH	% MOISTURE	DRY WEIGHT	AMOUNT EXTRACTED	EXTRACTED VOLUME	GPC VOLUME	GPC ELUTE VOL	FLORISIL VOL CONC	FLORISIL FIN VOL CONC	VOL SV (P)	FIN PROCESS VOLUME	SCREEN Y/N	MS SV (P)	SURR SV (P)	BASE pH CONFIRMATION	ACID pH CONFIRMATION
					%	g	g • (ml)	ml	ml	ml	ml	ml	ml	ml	Y/N	µL	µL		
BL0816SE			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000		
BB0816SE			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000		
LC0816SE			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
LD0816SE			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
47282.01 GC699	EPA 29602	08/15/2001 08:30 E02M5	S/L	7.35	82.92	5.2	30.28	350	10/5	45	2.0		5.0	5.0	N		1000		
47282.02 GC699	EPA 29602	08/15/2001 08:30 E02M6	S/L	7.54	59.36	12.3	30.31	350	10/5	45	2.0		5.0	5.0	N		1000		
47282.03 GC699	EPA 29602	08/15/2001 08:30 E02M7	S/L	7.15	75.71	7.4	30.48	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.01 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	6.89	82.59	5.3	30.19	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.02 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.44	82.71	5.2	30.27	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.03 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.54	82.93	5.2	30.34	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.04 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.10	50.84	14.9	30.30	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.05 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.16	14.79	25.9	30.41	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.06 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.65	15.12	25.8	30.38	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.07 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.47	16.72	25.3	30.40	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.08 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.38	13.45	26.3	30.39	350	10/5	45	2.0		5.0	5.0	N		1000		

INITIALS

WEIGHING:	CD	EXTRACTION:	BTB	FLORISIL:
CLEANUP:	CR	KD:	GS	CH_2Cl_2
BLOWDOWN:	SA	TV:	GS	Acetone
SURROG. SPIKER:	BTB	VERIFIER:	CD	Hexane
MATRIX SPIKER:	BTB	VERIFIER:	CD	
SUBMITTED BY:	SA	REVIEWED BY:	8/27	

4511

ID NUMBERS

FLORISIL CARTRIDGE #:

GPC COLUMN #: 364134 (08-21-01) #3640A

SURROGATES ID CONC #: 5-157-7

MATRIX SPIKE SOLID/CONC #(s): 5-146-7

SOP - METHOD # : SWL-OP- 415 Rev. 1-0

COMMENTS

SB #082101C
SB #082101P
Extracts went through silica gel & acid clean-up

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SAMPLE EXTRACTION LO

[X] RUSH [ ] REEXTRACT [ ] TCLP [ ] DIOXIN

	SV	ST • PCB	OTHER
EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

BATCH: 010816SE

EXTRACT DATE: 2001-08-16 12:14

002976
Page: 2 of 2

SAMPLE ID (EPISODE #)	CLIENT CASE	DATE RECEIVED CLIENT SAMPLE ID	MATRIX/LEVEL	SAMPLE pH	% MOISTURE	DRY WEIGHT	AMOUNT EXTRACTED	EXTRACTED VOLUME	GPC VOLUME	GPC ELUTE VOL	FLORISIL VOL CONC	FLORISIL FIN VOL CONC	VOL SV (P)	FIN PROCESS VOLUME	SCREEN Y/N	MS SV (P)	SURR SV (P)	BASE pH CONFIRMATION	ACID pH CONFIRMATION
					%	g	g • (ml)	ml	ml	ml	ml	ml	ml	ml	Y/N	µL	µL		
47292.09 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.75	13.61	26.1	30.25	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.10 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.67	13.76	26.2	30.34	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.11 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.46	12.74	26.4	30.28	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.12MS GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.46	12.74	26.5	30.37	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
47292.13MSD GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.46	12.74	26.4	30.31	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
47292.14 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.65	12.94	26.5	30.40	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.15 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.38	11.48	26.8	30.27	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.16 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.60	14.87	25.9	30.41	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.17 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.64	15.11	25.7	30.29	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.18 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.61	17.41	25.1	30.36	350	10/5	45	2.0		5.0	5.0	N		1000		
47292.19 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.45	11.88	26.9	30.47	350	10/5	45	2.0		5.0	5.0	N		1000		

Staged

INITIALS

WEIGHING:	SA	EXTRACTION:	BTB	FLORISIL:	
CLEANUP:	CR	KD:	GS		CH2Cl2
BLOWDOWN:	SA	TV:	GS		Acetone
SURROG. SPIKER:	BTB	VERIFIER:	CD		Hexane
MATRIX SPIKER:	BTB	VERIFIER:	CD		
SUBMITTED BY:	SA	REVIEWED BY:			08/27

ID NUMBERS

FLORISIL CARTRIDGE #:	
GPC COLUMN #:	364134 (08-21-01) #3640A
SURROGATES ID CONC #:	5-157-7
MATRIX SPIKE SOLID/CONC #(s):	5-146-7
SOP - METHOD # : SWL-OP-	415 Rev. 1.0

COMMENTS

SB #082101C
SB# 082101D
Extracts went through Staged Acid clean-up.

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