0053291

Kessner, Joan H PAR001-PAR

From: Zeisloft, James H Jr
Sent: Monday, December 27, 1999 10:39 AM
To: jmcc461@ECY.WA.GOV; Yokel, Jerel W
Cc: Kessner, Joan H; Goldberg, Glenn I; Gerton, Ronald E; Bilson, Helen E (Beth); 'HUGHS Susan C'; Gadbois, Laurence E
Subject: DDE Sample Results

Jay/Jerry,

It's RL's understanding that you've collected several soil samples from our Horseshoe Landfill site. We also understand that you've had those samples analyzed for DDT/DDE contamination and that the results of the analysis are available. We (RL) would like to see the data entered into HEIS. This entry would be useful to numerous parties, including the RL Environmental Restoration program, EPA, the Hanford Natural Resource Trustees and (of course) your agencies. Would you please provide the information necessary to make the data entry (i.e. sample types and locations, chain-of-custody, analytical methodologies, detection limits, lab QA/QC, analytical results). You can give the information to either Joan Kessner or me. Thank you for your cooperation.

Jamie

RECEIVED
JUN 26 2000
EDMC

MAY 2000
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Data
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ALE15 Camp. site

ID	Analyte	Result (mg/kg)	Detection level
ALE1	DDE	.12	.0035
	DDD	.0035	.0035
	DDT	.014	.0035
ALE1 duplicate	DDE	.12	.018
	DDD	.018	.018
	DDT	.013	.018
ALE2	DDE	1.5	.0035
	DDD	.035	.0035
	DDT	1.1	.0035
ALE2 duplicate	DDE	2.2	.35
	DDD	.35	.35
	DDT	.96	.35
ALE3	DDE	.92	.0035
	DDD	.073	.0035
	DDT	1.6	.0035
ALE3 duplicate	DDE	1.0	.35
	DDD	.17	.35
	DDT	1.7	.35

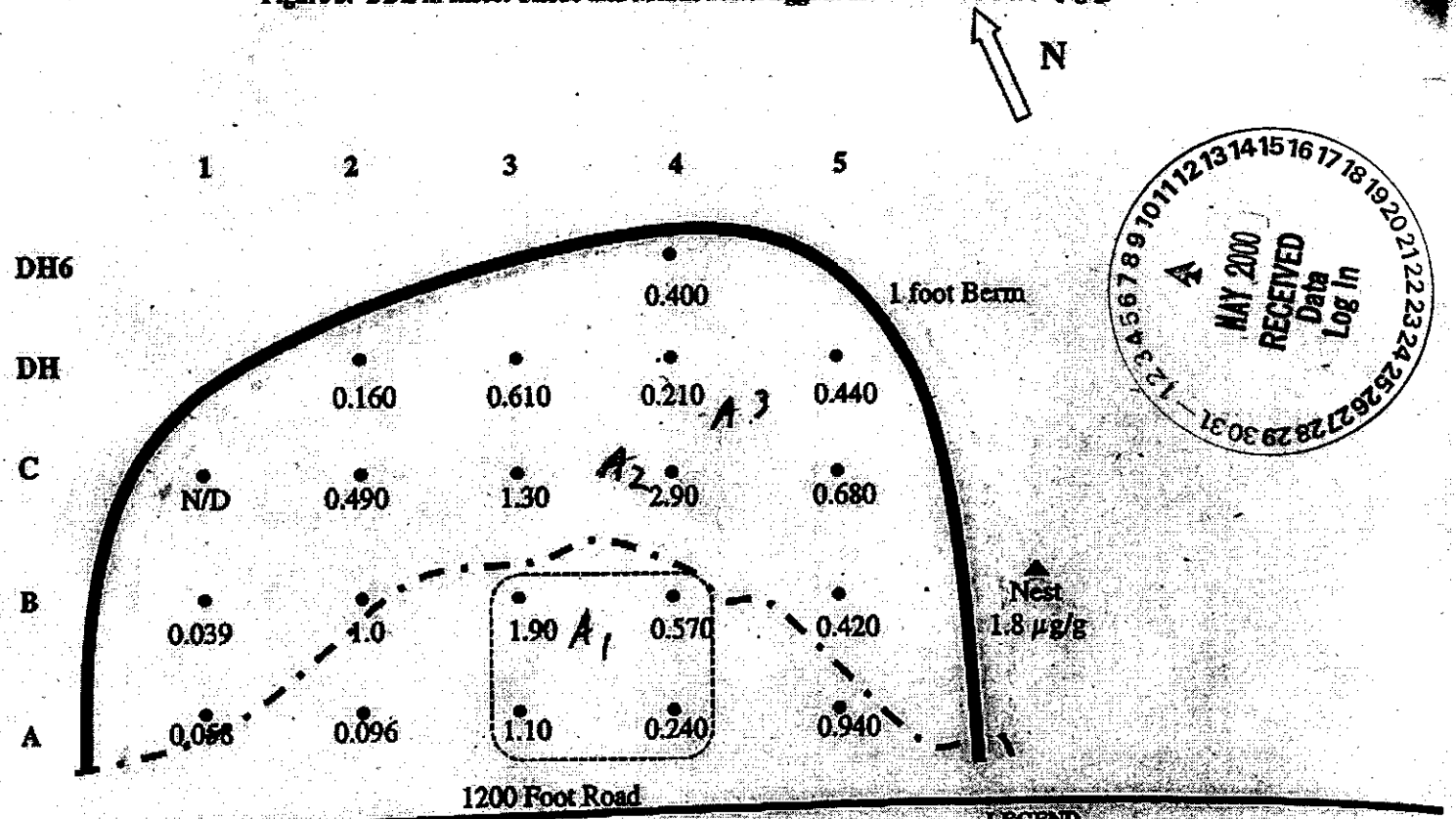
The samples were collected on October 28, 1999.
All samples were analyzed within the established holding times. All surrogate recoveries were within acceptance criteria. All laboratory control spike and control spike duplicate recoveries and RPDs were within the acceptance criteria. The method blank was below the reporting limits for all compounds. Soil

Wash Dept. of Ecology "on the alg" samples.
~~Hold off entering this data until Ken Hano gets back to me.~~

MAY 2000
RECEIVED
Data
Log In

Rec'd fr. Ken Hano
on 4/6/2000

Figure 3. DDE in Insect Tissue and Meadowlark Eggs at Horseshoe Landfill (µg/g).



MAY 2000
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Data
Log In

[DDE]1996 mean = 1.244 µg/g
[DDE]1999 mean = 0.678 µg/g
Standard deviation = ± 0.715 µg/g
[DDE] meadowlark eggs = 1.8 µg/g

LEGEND

- 1-ft Berm
- Excavated and revegetated
- Limit of sagebrush (grass north of line)
- Sample point (insect trap)
- N/D — None detected

Table B-1. Global Positioning System Data. (2 pages)

GPS Pt. No.	Site	Sample	Easting WA State Plane, NAD 83/91 (m)	Northing WA State Plane, NAD 83/91 (m)
1015	Horseshoe	A1	574476.95	118491.49
1020	Horseshoe	A2	574504.24	118477.62
1021	Horseshoe	A3	574529.44	118459.5
1035	Horseshoe	A4	574551.07	118441.63
1034	Horseshoe	A5	574575.38	118424.9
1016	Horseshoe	B1	574509.02	118535.18
1019	Horseshoe	B2	574530.21	118513.42
1022	Horseshoe	B3	574552	118491.72
1029	Horseshoe	B4	574573.42	118470.49
1033	Horseshoe	B5	574594.19	118448.27
1017	Horseshoe	C1	574528.5	118560.13
1018	Horseshoe	C2	574549.89	118538.19
1023	Horseshoe	C3	574570.27	118516.35
1028	Horseshoe	C4	574590.78	118494.56
1032	Horseshoe	C5	574612.3	118471.34
1025	Horseshoe	DH2	574567.48	118559.93
1024	Horseshoe	DH3	574587.85	118541.01
1027	Horseshoe	DH4	574608.65	118518.84
1031	Horseshoe	DH5	574631.37	118495.71
1026	Horseshoe	DH6	574622.02	118537.53
1030	Horseshoe	Meadowlark nest	574622.33	118429.98
1012	ALE Control	ZA1	573726.55	118942.34
1011	ALE Control	ZA2	573742.64	118963.99
1010	ALE Control	ZA3	573760.35	118986.75
1013	ALE Control	ZB1	573750.87	118923.74
1014	ALE Control	ZB2	573767.38	118946.62
1009	ALE Control	ZB3	573784.65	118970.53
1006	ALE Control	ZC1	573775.15	118905.13
1007	ALE Control	ZC2	573791.8	118929.99
1008	ALE Control	ZC3	573809.86	118954.9
1005	ALE Control	ZD1	573798.72	118886.31
1004	ALE Control	ZD2	573817.14	118912.8
1003	ALE Control	ZD3	573833.67	118938.98
1000	ALE Control	ZE1	573822.79	118867.04

Table B-1. Global Positioning System Data. (2 pages)

GPS Pt. No.	Site	Sample	Easting WA State Plane, NAD 83/91 (m)	Northing WA State Plane, NAD 83/91 (m)
1001	ALE Control	ZE2	573842.38	118896
1002	ALE Control	ZE3	573859.23	118921.26
1002	PSN-90	D1	565828.49	156055.95
1003	PSN-90	D2	565827.79	156081.83
1038	PSN-90	D3	565823.46	156125.02
1001	PSN-90	E1	565854.43	156058.85
1004	PSN-90	E2	565852.44	156081.85
1039	PSN-90	E3	565849.59	156128.1
1045	PSN-90	F1	565884.77	156060.92
1000	PSN-90	F2	565876.74	156082.38
1040	PSN-90	F3	565876.27	156127.98
1007	PSN-01	G1	571337.37	158364.12
1005	PSN-01	G2	571371.59	158391.09
1006	PSN-01	G3	571398.38	158408.37
1015	H-06-LE	H1	582786.95	157107.88
1016	H-06-LE	H2	582812.31	157124
1017	H-06-LE	H3	582837.86	157140.05
1018	H-06-LE	H4	582863.66	157156.91
1031	H-06-LE	I1	582801.13	157079.93
1025	H-06-LE	I2	582828.15	157097.46
1024	H-06-LE	I3	582852.89	157113.47
1019	H-06-LE	I4	582878.83	157130.05
1030	H-06-LE	J1	582815.23	157055.16
1027	H-06-LE	J2	582841.53	157071.24
1023	H-06-LE	J3	582867.08	157086.7
1020	H-06-LE	J4	582894.14	157102.76
1029	H-06-LE	K1	582829.41	157029.28
1028	H-06-LE	K2	582855.12	157044.16
1022	H-06-LE	K3	582882.9	157059.54
1021	H-06-LE	K4	582909.49	157076.09

ALE = Fitzner-Eberhardt Arid Lands Ecology Reserve
GPS = global positioning system

PARAGON ANALYTICS, INC.
225 Commerce Drive • Fort Collins, CO 80524 • (800) 443-1511 • (970) 490-1511 • FAX (970) 490-1522

December 3, 1999

Mr. Jerry Yokel
Washington State Dept. of Ecology
1315 West 4th Avenue
Kennewick, WA 99336

RE: Paragon Workorder: 99-11-025
Client Project Name: ALE DDT Screening
Client Project Number: Work Assignment # 9

Dear Mr. Yokel:

Three soil samples were received from WDOE on November 5, 1999. The samples were scheduled for Pesticides analysis. The results for this analysis are contained in the enclosed report pages 1-98.

Thank you for your confidence in Paragon Analytics, Inc. Should you have any questions, please call.

Sincerely,

Paragon Analytics, Inc.
Lance Steere
Senior Project Manager

LRS/ar
Enclosure: Report

DDE 2.94
DDT 2.94

MAY 2000
RECEIVED
Data
Log In

Paragon Analytics, Incorporated

Sample Number(s) Cross-Reference Table

Paragon OrderNum: 9911025
Client Name: Washington State Dept. of Ecology
Client Project Name: ALE DDT Screening
Client Project Number: Work Assignment # 9
Client PO Number:

Client Sample	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
ALE1	9911025-1		SOIL	11/2/99	
ALE2	9911025-2		SOIL	11/2/99	
ALE3	9911025-3		SOIL	11/2/99	

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Chain of Custody

DATE 11-3-94 PAGE 1 OF 1

ACCESSION NUMBER: 9911025

PROJECT MANAGER: YOKEL
COMPANY: ECOLOGY
ADDRESS: 1315 W 4TH
KENNEWICK WA
SAMPLER:
PHONE NUMBER
FAX NUMBER

SAMPLE ID	SAMPLE DATE	SAMPLE TIME	MATRIX	LAB ID	9070/9071 — Oil & Grease	418.1 — TRPH	8015 Mod. — Gasoline	8015 Mod. — Diesel	8015/8020 — Gasoline/BTEX	8020 — BTEX	8240 — GC/MS VOC's	8270 — GC/MS SVOC's	8080 — Pesticides/PCB's	8080 — PCB Only	8310 — PNA's	8150 — Herbicides	8140 — OP Pesticides	TOX — EOX — TX	Total Metals:	TCLP:	Gross Alpha	Gross Beta	Radium 226	Radium 228	Tritium	Strontium	% Moisture							Number of Containers
ALE 1	11-2		SOIL	01									X																					
ALE 2	1		1	02									X																					
ALE 3				03									X																					

PROJECT INFORMATION	SAMPLE RECEIPT
PROJECT NUMBER:	TOTAL NUMBER OF CONTAINERS
PROJECT NAME:	CHAIN OF CUSTODY SEALS
PURCHASE ORDER NUMBER:	SAMPLES INTACT
TAT: ☐ STANDARD ☐ RUSH DUE:	RECEIVED GOOD CONDITION

SAMPLE DISPOSAL: ☐ HAZ WASTE $5.00 ☐ RAD CHEM $15.00 ☐ RETURN

Comments:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: 11-3-94	Signature: Time:	Signature: Time:
Printed Name: YOKEL Date: 11-3-94	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.** 930	**RECEIVED BY: 3.**
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date: Jeannie Hunter	Printed Name: Date:
Company:	Company: PAT 11/05/94	Company:

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Paragon Analytics, Inc. - Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: WDOE **PROJECT MANAGER:** LRS

WORKORDER NO: 9911025 **INITIALS:** JH **DATE:** 11/05/99

1.	Does this project require any special handling in addition to standard PAI procedures?		Yes	No
	PRESCREEN REQUIRED (Rad, DOE, etc.)		Yes	No
2.	Are custody seals on the cooler intact? If so, how many	N/A	Yes	No
3.	Are custody seals on sample containers intact?	N/A	Yes	No
4.	Is there a Chain of Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5.	Is the COC complete? Relinquished: Yes ✓ No ___ Analyses Requested: Yes ✓ No ___	N/A	Yes	No
6.	Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No ___ Sample ID's: Yes ✓ No ___ Matrix: Yes ✓ No ___ No. of Containers: Yes ✓ No ___		Yes	No
7.	Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
	Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
8.	Is there enough sample? If so, are they in the proper containers?		Yes	No
9.	Are all samples within holding times for the requested analyses?		Yes	No
10.	Were the sample(s) shipped on ice?	N/A	Yes	No
11.	Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
12.	Are samples requiring no headspace, headspace free? (volatiles, reactive cyanide/sulfide) **Size of bubble** **< green pea** **> green pea**	N/A	Yes	No
13.	Are airbills present and removable?		Yes	No
14.	Shall Paragon dispose of samples?		Yes	No
15.	Were the cooler temperatures ≤ 6° C ?	N/A	Yes	No

Cooler #'s Client ___ ___ ___ ___ ___

Temperature 110 ___ ___ ___ ___ ___ °C

PM Reviewed/Date: 11/8

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1&13) REQUIRES THE COMPLETION OF PAGE 2 OF THE FORM

FORM 201FC8.frm (05/04/99)

Paragon Analytics, Inc. - Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: WDOE PROJECT MANAGER: JRD

WORKORDER NO: 9911025 INITIALS: JH DATE: 11/05/99

SAMPLE RECEIPT DISCREPANCY REPORT

- ☐ Custody seals on outside of shipping container broken.
- ☐ Custody seals on sample containers were broken.
- ☐ No Chain of Custody present.
- ☐ Number of samples on the COC do not match the number of samples received.
- ☐ Aqueous samples not preserved correctly.
- ☒ Samples received at inappropriate temperature.
- ☐ Insufficient sample to perform requested analyses.
- ☐ Extraction or analytical holding times expired in transit.
- ☐ Broken bottles.
- ☐ No analyses requested.
- ☐ Incorrect sample type received.
- ☐ Other

Describe discrepancy: Samples received @ 11° – not enough ice used

OK'd to proceed/narrate by JH 11/9 email

Was the client contacted? Yes X No

If yes, Date/Time: 11/8/99

Name of Person Contacted: Jerry Yokel

PM Signature/Date: 11/8/99

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1&13) REQUIRES THE COMPLETION OF PAGE 2 OF THE FORM

FORM 201FC7.frm (12/17/98)

Paragon Analytics, Inc.

Pesticides Case Narrative

Washington State Dept. of Ecology

ALE DDT Screening / Work Assignment #9

Order Number - 9911025

1. This report consists of 3 soil samples received by Paragon on 11/5/99, at 11° deg. C. 12/2/99

2. These samples were extracted and analyzed according to SW-846, 3rd Edition procedures. Specifically, the soil samples were extracted using soxhlet procedures based on Method 3540. The extracts were then processed using florisil cleanup by Method 3620 in an attempt to remove potential interferences.

3. The extracts were then analyzed using GC/ECD (electron capture detectors) with a RTX-CLPesticides capillary column according to protocols based on Method 8081A. All positive results were then confirmed on a RTX-CLPesticidesII column. The quantitation of each analyte is the lower of the concentrations obtained from each column. This minimizes the chances of reporting elevated results based on interferences.

4. The percent breakdown criteria for Endrin, 4,4'-DDT and the combined breakdown met acceptance criteria.

5. All initial and continuing calibration criteria were met with the following exception;

   Continuing calibration file #EC111710 - TCMX was out high on column #2.

   Because the sensitivity of the instrument increased and all surrogates were diluted out of the samples bracketed by this continuing calibration, no further action was taken. Reporting limits are supported.

6. The method blank associated with this project was below the reporting limits for all analytes.

7. All laboratory control spike and laboratory control spike duplicate recoveries and RPDs were within the acceptance criteria.

8. All matrix spike and matrix spike duplicate recoveries and RPDs were within acceptance criteria with the following exception:

Spiked Compound	Sample	Recovery
4,4'-DDT	3MS	high
4,4'-DDT	3MSD	low

The recoveries of this compound in the laboratory control spike and laboratory control spike duplicate were within control limits, which suggest the outliers in the matrix spikes may have been due to matrix effects. This compound was detected in the native sample at a level 10X the amount spiked into the sample. No further action was warranted. Blank spike and blank spike duplicate results have been included.

9. All samples were analyzed within the established holding times.

10. All surrogate recoveries were within acceptance criteria.

11. Samples 1, 2 and 3 were analyzed at a higher dilution in order to bring target analytes within the calibration range of the instrument. The reporting limits have been adjusted accordingly.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Martha A Brown — 12-2-99
Marty Brown — Date
GC Supervisor

EB — 12-2-99
Reviewer's Initials — Date

Paragon Analytics, Incorporated

Sample Number(s) Cross-Reference Table

Paragon OrderNum: 9911025
Client Name: Washington State Dept. of Ecology
Client Project Name: ALE DDT Screening
Client Project Number: Work Assignment # 9
Client PO Number:

Client Sample	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
ALE1	9911025-1		SOIL	11/2/99	
ALE2	9911025-2		SOIL	11/2/99	
ALE3	9911025-3		SOIL	11/2/99	

Paragon Analytics, Inc.
Data Qualifier Flags
Chromatography and Mass Spectrometry

U or ND:	**This flag indicates that the compound was analyzed for but not detected.**
J:	**This flag indicates an estimated value. This flag is used as follows : (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); and (3) when the retention time data indicate the presence of a compound that meets the GC identification criteria, and the result is less than the RL but greater than the MDL.**
B:	**This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.**
E:	**This flag identifies compounds whose concentration exceeds the upper level of the calibration range.**
***:**	**This flag indicates that a spike recovery is equal to or outside the control criteria used. (This flag appears when a spike recovery is equal to, and therefore within, the control criteria due to a limitation in the current PAI LIMS system.)**
+:	**This flag indicates that the relative percent difference (RPD) equals or exceeds the control criteria. (This flag appears when the RPD is equal to, and therefore within, the control criteria due to a limitation in the current PAI LIMS system.)**

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Chain of Custody

DATE 11-3-94 PAGE 1 OF 1

ACCESSION NUMBER: 9911025

PROJECT MANAGER: YOKEL
COMPANY: ECOLOGY
ADDRESS: 1315 W 4TH
KENNEWICK WA
SAMPLER:
PHONE NUMBER
FAX NUMBER

ANALYSIS REQUESTED

SAMPLE ID	SAMPLE DATE	SAMPLE TIME	MATRIX	LAB ID	9070/9071 — Oil & Grease	418.1 — TRPH	8015 Mod. — Gasoline	8015 Mod. — Diesel	8015/8020 — Gasoline/BTEX	8020 — BTEX	8240 — GC/MS VOC's	8270 — GC/MS SVOC's	8080 — Pesticides/PCB's	8080 — PCB Only	8310 — PNA's	8150 — Herbicides	8140 — OP Pesticides	TOX — EOX — TX	Total Metals:	TCLP:	Gross Alpha	Gross Beta	Radium 226	Radium 228	Tritium	Strontium	% Moisture						Number of Containers
ALE 1	11-2		soil	01									X																				
ALE 2	1		1	02									X																				
ALE 3				03									X																				

PROJECT INFORMATION	SAMPLE RECEIPT	
PROJECT NUMBER:	TOTAL NUMBER OF CONTAINERS	
PROJECT NAME:	CHAIN OF CUSTODY SEALS Y/N	
PURCHASE ORDER NUMBER:	SEALS INTACT? Y/N/NA	
TAT: ☐ STANDARD ☐ RUSH DUE:	RECEIVED GOOD COND./COLD	

SAMPLE DISPOSAL: ☐ HAZ WASTE $5.00 ☐ RAD CHEM $15.00 ☐ RETURN

Comments:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: 11-3-94	Signature: Time:	Signature: Time:
Printed Name: YOKEL Date: 11-3-94	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Time:	Signature: Time: 930	Signature: Time:
Printed Name: Date:	Printed Name: Date: Jeanne Hunter	Printed Name: Date:
Company:	Company: SAIC 11/05/94	Company:

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Paragon Analytics, Inc. - Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: WDOE **PROJECT MANAGER:** LRS

WORKORDER NO: 9911025 **INITIALS:** JH **DATE:** 11/05/99

1.	Does this project require any special handling in addition to standard PAI procedures?		Yes	No
	PRESCREEN REQUIRED (Rad, DOE, etc.)		Yes	No
2.	Are custody seals on the cooler intact? If so, how many	N/A	Yes	No
3.	Are custody seals on sample containers intact?	N/A	Yes	No
4.	Is there a Chain of Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5.	Is the COC complete? Relinquished: Yes ✓ No Analyses Requested: Yes ✓ No	N/A	Yes	No
6.	Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No Sample ID's: Yes ✓ No Matrix: Yes ✓ No No. of Containers: Yes ✓ No		Yes	No
7.	Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
	Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
8.	Is there enough sample? If so, are they in the proper containers?		Yes	No
9.	Are all samples within holding times for the requested analyses?		Yes	No
10.	Were the sample(s) shipped on ice?	N/A	Yes	No
11.	Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
12.	Are samples requiring no headspace, headspace free? (volatiles, reactive cyanide/sulfide) **Size of bubble < green pea > green pea**	N/A	Yes	No
13.	Are airbills present and removable?		Yes	No
14.	Shall Paragon dispose of samples?		Yes	No
15.	Were the cooler temperatures ≤ 6° C ?	N/A	Yes	No

Cooler #'s Client ____ ____ ____ ____ ____

Temperature 110 ____ ____ ____ ____ ____ °C

PM Reviewed/Date: 11/8

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FORM 201FC8.frm (05/04/99)

Paragon Analytics, Inc. - Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: WDOE PROJECT MANAGER: JRD

WORKORDER NO: 9911025 INITIALS: JP DATE: 11/05/99

SAMPLE RECEIPT DISCREPANCY REPORT

- ☐ Custody seals on outside of shipping container broken.
- ☐ Custody seals on sample containers were broken.
- ☐ No Chain of Custody present.
- ☐ Number of samples on the COC do not match the number of samples received.
- ☐ Aqueous samples not preserved correctly.
- ☒ Samples received at inappropriate temperature.
- ☐ Insufficient sample to perform requested analyses.
- ☐ Extraction or analytical holding times expired in transit.
- ☐ Broken bottles.
- ☐ No analyses requested.
- ☐ Incorrect sample type received.
- ☐ Other

Describe discrepancy: Samples received @ 11° – not enough ice used

ok'd to proceed/narrate by JH 11/9 e-mail.

Was the client contacted? Yes X No _____

If yes, Date/Time: 11/8/99

Name of Person Contacted: Jerry Yokel

PM Signature/Date: [signature] 11/8/99

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1&13) REQUIRES THE COMPLETION OF PAGE 2 OF THE FORM

FORM 201FC7.frm (12/17/98)

000007

Analytical Results

Organochlorine Pesticides

Method SW8081
Method Blank

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9911025
Client Name: Washington State Dept. of Ecology
ClientProject ID: ALE DDT Screening Work Assignment # 9

Lab ID: EX991110-5MB

Sample Matrix: SOIL
% Moisture: N/A
Date Collected: N/A
Date Extracted: 10-Nov-99
Date Analyzed: 17-Nov-99

Prep Batch: EX991110-5
QCBatchID: EX991110-5-1
Run ID: PT991116-4
Cleanup: SW3620
Basis: N/A

Sample Aliquot: 30 G
Final Volume: 10 ML
Result Units: UG/KG
File Name: EC111628

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
319-84-6	ALPHA-BHC	1	1.7	1.7	U	
58-89-9	GAMMA-BHC (LINDANE)	1	1.7	1.7	U	
76-44-8	HEPTACHLOR	1	1.7	1.7	U	
309-00-2	ALDRIN	1	1.7	1.7	U	
319-85-7	BETA-BHC	1	1.7	1.7	U	
319-86-8	DELTA-BHC	1	1.7	1.7	U	
1024-57-3	HEPTACHLOR EPOXIDE	1	1.7	1.7	U	
959-98-8	ENDOSULFAN I	1	1.7	1.7	U	
5103-74-2	GAMMA-CHLORDANE	1	1.7	1.7	U	
5103-71-9	ALPHA-CHLORDANE	1	1.7	1.7	U	
72-55-9	4,4'-DDE	1	3.3	3.3	U	
60-57-1	DIELDRIN	1	3.3	3.3	U	
72-20-8	ENDRIN	1	3.3	3.3	U	
72-54-8	4,4'-DDD	1	3.3	3.3	U	
33213-65-9	ENDOSULFAN II	1	3.3	3.3	U	
50-29-3	4,4'-DDT	1	3.3	3.3	U	
7421-93-4	ENDRIN ALDEHYDE	1	3.3	3.3	U	
72-43-5	METHOXYCHLOR	1	17	17	U	
1031-07-8	ENDOSULFAN SULFATE	1	3.3	3.3	U	
53494-70-5	ENDRIN KETONE	1	3.3	3.3	U	
8001-35-2	TOXAPHENE	1	170	170	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	12.7		16.7	76	34 - 129
877-09-8	TETRACHLORO-M-XYLENE	16.8		16.7	101	47 - 137

Data Package ID: *PT9911025-2*

Organochlorine Pesticides

Method SW8081

Sample Results

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9911025
Client Name: Washington State Dept. of Ecology
ClientProject ID: ALE DDT Screening Work Assignment # 9

ALE1	
9911025-1	

Sample Matrix: SOIL
% Moisture: 4.9
Date Collected: 02-Nov-99
Date Extracted: 10-Nov-99
Date Analyzed: 17-Nov-99

Prep Batch: EX991110-5
QCBatchID: EX991110-5-1
Run ID: PT991116-4
Cleanup: SW3620
Basis: Dry Weight

Sample Aliquot: 30 G
Final Volume: 10 ML
Result Units: UG/KG
File Name: EC111631

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
319-84-6	ALPHA-BHC	1	1.8	1.8	U	
58-89-9	GAMMA-BHC (LINDANE)	1	1.8	1.8	U	
76-44-8	HEPTACHLOR	1	1.8	1.8	U	
309-00-2	ALDRIN	1	1.8	1.8	U	
319-85-7	BETA-BHC	1	1.8	1.8	U	
319-86-8	DELTA-BHC	1	1.8	1.8	U	
1024-57-3	HEPTACHLOR EPOXIDE	1	1.8	1.8	U	
959-98-8	ENDOSULFAN I	1	1.8	1.8	U	
5103-74-2	GAMMA-CHLORDANE	1	1.8	1.8	U	
5103-71-9	ALPHA-CHLORDANE	1	1.8	1.8	U	
72-55-9	4,4'-DDE	1	120	3.5	E	
60-57-1	DIELDRIN	1	3.5	3.5	U	
72-20-8	ENDRIN	1	3.5	3.5	U	
72-54-8	4,4'-DDD	1	3.5	3.5	U	
33213-65-9	ENDOSULFAN II	1	3.5	3.5	U	
50-29-3	4,4'-DDT	1	14	3.5		
7421-93-4	ENDRIN ALDEHYDE	1	3.5	3.5	U	
72-43-5	METHOXYCHLOR	1	18	18	U	
1031-07-8	ENDOSULFAN SULFATE	1	3.5	3.5	U	
53494-70-5	ENDRIN KETONE	1	3.5	3.5	U	
8001-35-2	TOXAPHENE	1	180	180	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	13		17.5	74	34 - 129
877-09-8	TETRACHLORO-M-XYLENE	17.7		17.5	101	47 - 137

Data Package ID: *PT9911025-2*

Organochlorine Pesticides

Method SW8081

Sample Results

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9911025
Client Name: Washington State Dept. of Ecology
ClientProject ID: ALE DDT Screening Work Assignment # 9

[redacted]	ALE2
[redacted]	9911025-2

Sample Matrix: SOIL
% Moisture: 4.9
Date Collected: 02-Nov-99
Date Extracted: 10-Nov-99
Date Analyzed: 17-Nov-99

Prep Batch: EX991110-5
QCBatchID: EX991110-5-1
Run ID: PT991116-4
Cleanup: SW3620
Basis: Dry Weight

Sample Aliquot: 30 G
Final Volume: 10 ML
Result Units: UG/KG
File Name: EC111632

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
319-84-6	ALPHA-BHC	1	1.8	1.8	U	
58-89-9	GAMMA-BHC (LINDANE)	1	1.8	1.8	U	
76-44-8	HEPTACHLOR	1	1.8	1.8	U	
309-00-2	ALDRIN	1	1.8	1.8	U	
319-85-7	BETA-BHC	1	1.8	1.8	U	
319-86-8	DELTA-BHC	1	1.8	1.8	U	
1024-57-3	HEPTACHLOR EPOXIDE	1	1.8	1.8	U	
959-98-8	ENDOSULFAN I	1	1.8	1.8	U	
5103-74-2	GAMMA-CHLORDANE	1	1.8	1.8	U	
5103-71-9	ALPHA-CHLORDANE	1	1.8	1.8	U	
72-55-9	4,4'-DDE	1	1500	3.5	E	
60-57-1	DIELDRIN	1	3.5	3.5	U	
72-20-8	ENDRIN	1	3.5	3.5	U	
72-54-8	4,4'-DDD	1	35	3.5	E	
33213-65-9	ENDOSULFAN II	1	3.5	3.5	U	
50-29-3	4,4'-DDT	1	1100	3.5	E	
7421-93-4	ENDRIN ALDEHYDE	1	3.5	3.5	U	
72-43-5	METHOXYCHLOR	1	18	18	U	
1031-07-8	ENDOSULFAN SULFATE	1	3.5	3.5	U	
53494-70-5	ENDRIN KETONE	1	3.5	3.5	U	
8001-35-2	TOXAPHENE	1	180	180	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	13.7		17.5	78	34 - 129
877-09-8	TETRACHLORO-M-XYLENE	17.7		17.5	101	47 - 137

Data Package ID: *PT9911025-2*

Organochlorine Pesticides

Method SW8081

Sample Results

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9911025
Client Name: Washington State Dept. of Ecology
ClientProject ID: ALE DDT Screening Work Assignment # 9

ALE3	
9911025-3	

Sample Matrix: SOIL
% Moisture: 4.3
Date Collected: 02-Nov-99
Date Extracted: 10-Nov-99
Date Analyzed: 17-Nov-99

Prep Batch: EX991110-5
QCBatchID: EX991110-5-1
Run ID: PT991116-4
Cleanup: SW3620
Basis: Dry Weight

Sample Aliquot: 30 G
Final Volume: 10 ML
Result Units: UG/KG
File Name: EC111633

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
319-84-6	ALPHA-BHC	1	1.7	1.7	U	
58-89-9	GAMMA-BHC (LINDANE)	1	1.7	1.7	U	
76-44-8	HEPTACHLOR	1	1.7	1.7	U	
309-00-2	ALDRIN	1	1.7	1.7	U	
319-85-7	BETA-BHC	1	1.7	1.7	U	
319-86-8	DELTA-BHC	1	1.7	1.7	U	
1024-57-3	HEPTACHLOR EPOXIDE	1	1.7	1.7	U	
959-98-8	ENDOSULFAN I	1	1.7	1.7	U	
5103-74-2	GAMMA-CHLORDANE	1	1.7	1.7	U	
5103-71-9	ALPHA-CHLORDANE	1	1.7	1.7	U	
72-55-9	4,4'-DDE	1	920	3.5	E	
60-57-1	DIELDRIN	1	3.5	3.5	U	
72-20-8	ENDRIN	1	3.5	3.5	U	
72-54-8	4,4'-DDD	1	73	3.5	E	
33213-65-9	ENDOSULFAN II	1	3.5	3.5	U	
50-29-3	4,4'-DDT	1	1600	3.5	E	
7421-93-4	ENDRIN ALDEHYDE	1	3.5	3.5	U	
72-43-5	METHOXYCHLOR	1	17	17	U	
1031-07-8	ENDOSULFAN SULFATE	1	3.5	3.5	U	
53494-70-5	ENDRIN KETONE	1	3.5	3.5	U	
8001-35-2	TOXAPHENE	1	170	170	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	13.1		17.4	75	34 - 129
877-09-8	TETRACHLORO-M-XYLENE	16.9		17.4	97	47 - 137

Data Package ID: *PT9911025-2*

Organochlorine Pesticides

Method SW8081

Sample Results

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9911025
Client Name: Washington State Dept. of Ecology
ClientProject ID: ALE DDT Screening Work Assignment # 9

ALE1
9911025-1RR1

Sample Matrix: SOIL
% Moisture: 4.9
Date Collected: 02-Nov-99
Date Extracted: 10-Nov-99
Date Analyzed: 17-Nov-99

Prep Batch: EX991110-5
QCBatchID: EX991110-5-1
Run ID: PT991117-4
Cleanup: SW3620
Basis: Dry Weight

Sample Aliquot: 30 G
Final Volume: 10 ML
Result Units: UG/KG
File Name: EC111703

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
319-84-6	ALPHA-BHC	5	8.8	8.8	U	
58-89-9	GAMMA-BHC (LINDANE)	5	8.8	8.8	U	
76-44-8	HEPTACHLOR	5	8.8	8.8	U	
309-00-2	ALDRIN	5	8.8	8.8	U	
319-85-7	BETA-BHC	5	8.8	8.8	U	
319-86-8	DELTA-BHC	5	8.8	8.8	U	
1024-57-3	HEPTACHLOR EPOXIDE	5	8.8	8.8	U	
959-98-8	ENDOSULFAN I	5	8.8	8.8	U	
5103-74-2	GAMMA-CHLORDANE	5	8.8	8.8	U	
5103-71-9	ALPHA-CHLORDANE	5	8.8	8.8	U	
72-55-9	4,4'-DDE	5	120	18		
60-57-1	DIELDRIN	5	18	18	U	
72-20-8	ENDRIN	5	18	18	U	
72-54-8	4,4'-DDD	5	18	18	U	
33213-65-9	ENDOSULFAN II	5	18	18	U	
50-29-3	4,4'-DDT	5	13	18	J	
7421-93-4	ENDRIN ALDEHYDE	5	18	18	U	
72-43-5	METHOXYCHLOR	5	88	88	U	
1031-07-8	ENDOSULFAN SULFATE	5	18	18	U	
53494-70-5	ENDRIN KETONE	5	18	18	U	
8001-35-2	TOXAPHENE	5	880	880	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL		*	17.5	0	34 - 129
877-09-8	TETRACHLORO-M-XYLENE		*	17.5	0	47 - 137

Data Package ID: *PT9911025-1*

Organochlorine Pesticides

Method SW8081

Sample Results

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9911025
Client Name: Washington State Dept. of Ecology
ClientProject ID: ALE DDT Screening Work Assignment # 9

	ALE2
	9911025-2RR1

Sample Matrix: SOIL
% Moisture: 4.9
Date Collected: 02-Nov-99
Date Extracted: 10-Nov-99
Date Analyzed: 17-Nov-99

Prep Batch: EX991110-5
QCBatchID: EX991110-5-1
Run ID: PT991117-4
Cleanup: SW3620
Basis: Dry Weight

Sample Aliquot: 30 G
Final Volume: 10 ML
Result Units: UG/KG
File Name: EC111705

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
319-84-6	ALPHA-BHC	100	180	180	U	
58-89-9	GAMMA-BHC (LINDANE)	100	180	180	U	
76-44-8	HEPTACHLOR	100	180	180	U	
309-00-2	ALDRIN	100	180	180	U	
319-85-7	BETA-BHC	100	180	180	U	
319-86-8	DELTA-BHC	100	180	180	U	
1024-57-3	HEPTACHLOR EPOXIDE	100	180	180	U	
959-98-8	ENDOSULFAN I	100	180	180	U	
5103-74-2	GAMMA-CHLORDANE	100	180	180	U	
5103-71-9	ALPHA-CHLORDANE	100	180	180	U	
72-55-9	4,4'-DDE	100	2200	350		
60-57-1	DIELDRIN	100	350	350	U	
72-20-8	ENDRIN	100	350	350	U	
72-54-8	4,4'-DDD	100	350	350	U	
33213-65-9	ENDOSULFAN II	100	350	350	U	
50-29-3	4,4'-DDT	100	960	350		
7421-93-4	ENDRIN ALDEHYDE	100	350	350	U	
72-43-5	METHOXYCHLOR	100	1800	1800	U	
1031-07-8	ENDOSULFAN SULFATE	100	350	350	U	
53494-70-5	ENDRIN KETONE	100	350	350	U	
8001-35-2	TOXAPHENE	100	18000	18000	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL		*	17.5	0	34 - 129
877-09-8	TETRACHLORO-M-XYLENE		*	17.5	0	47 - 137

Data Package ID: *PT9911025-1*

Organochlorine Pesticides

Method SW8081

Sample Results

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9911025
Client Name: Washington State Dept. of Ecology
ClientProject ID: ALE DDT Screening Work Assignment # 9

ALE3	
9911025-3RR1	

Sample Matrix: SOIL
% Moisture: 4.3
Date Collected: 02-Nov-99
Date Extracted: 10-Nov-99
Date Analyzed: 17-Nov-99

Prep Batch: EX991110-5
QCBatchID: EX991110-5-1
Run ID: PT991117-4
Cleanup: SW3620
Basis: Dry Weight

Sample Aliquot: 30 G
Final Volume: 10 ML
Result Units: UG/KG
File Name: EC111707

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
319-84-6	ALPHA-BHC	100	170	170	U	
58-89-9	GAMMA-BHC (LINDANE)	100	170	170	U	
76-44-8	HEPTACHLOR	100	170	170	U	
309-00-2	ALDRIN	100	170	170	U	
319-85-7	BETA-BHC	100	170	170	U	
319-86-8	DELTA-BHC	100	170	170	U	
1024-57-3	HEPTACHLOR EPOXIDE	100	170	170	U	
959-98-8	ENDOSULFAN I	100	170	170	U	
5103-74-2	GAMMA-CHLORDANE	100	170	170	U	
5103-71-9	ALPHA-CHLORDANE	100	170	170	U	
72-55-9	4,4'-DDE	100	1000	350		
60-57-1	DIELDRIN	100	350	350	U	
72-20-8	ENDRIN	100	350	350	U	
72-54-8	4,4'-DDD	100	170	350	J	
33213-65-9	ENDOSULFAN II	100	350	350	U	
50-29-3	4,4'-DDT	100	1700	350		
7421-93-4	ENDRIN ALDEHYDE	100	350	350	U	
72-43-5	METHOXYCHLOR	100	1700	1700	U	
1031-07-8	ENDOSULFAN SULFATE	100	350	350	U	
53494-70-5	ENDRIN KETONE	100	350	350	U	
8001-35-2	TOXAPHENE	100	17000	17000	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL		*	17.4	0	34 - 129
877-09-8	TETRACHLORO-M-XYLENE		*	17.4	0	47 - 137

Data Package ID: *PT9911025-1*

Supporting QA/QC Data

Surrogate Summary for Organochlorine Pesticides

Method SW8081

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9911025
Client Name: Washington State Dept. of Ecology
ClientProject ID: ALE DDT Screening Work Assignment # 9

EX991110-5
EX991110-5-1
11/10/99

Surrogate Compound	Control Limits Lower	Control Limits Upper
Decachlorobiphenyl	34	129
Tetrachloro-m-xylene	47	137

Lab ID	Client Sample ID	Date Collected	Date Received	DCB % Recovery	TCX % Recovery
9911025-1	ALE1	11/2/99	11/5/99	74	101
9911025-2	ALE2	11/2/99	11/5/99	78	101
9911025-3MSD	ALE3	11/2/99	11/5/99	76	98
9911025-3MS	ALE3	11/2/99	11/5/99	79	103
9911025-3	ALE3	11/2/99	11/5/99	75	97
EX991110-5LCSD	XXXXXXX	NA	XXXXXXX	78	102
EX991110-5LCS	XXXXXXX	NA	XXXXXXX	80	102
EX991110-5MB	XXXXXXX	NA	XXXXXXX	76	101

Data Package ID: *PT9911025-2*

Organochlorine Pesticides

Method SW8081

Blank Spike And Blank Spike Duplicate

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9911025
Client Name: Washington State Dept. of Ecology
ClientProject ID: ALE DDT Screening Work Assignment # 9

EX991110-5LCS

Sample Matrix: SOIL
% Moisture: N/A
Date Collected: N/A
Date Extracted: 10-Nov-99
Date Analyzed: 17-Nov-99

Prep Batch: EX991110-5
QCBatchID: EX991110-5-1
Run ID: PT991116-4
Cleanup: SW3620
Basis: N/A

Sample Aliquot: 30 G
Final Volume: 10 ML
Result Units: UG/KG

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
58-89-9	GAMMA-BHC (LINDANE)	13.3	13.6	1.67		102	65 - 119%
76-44-8	HEPTACHLOR	13.3	14	1.67		105	48 - 135%
309-00-2	ALDRIN	13.3	14.3	1.67		107	66 - 122%
60-57-1	DIELDRIN	13.3	13.8	3.33		104	64 - 134%
72-20-8	ENDRIN	13.3	12.3	3.33		92	58 - 144%
50-29-3	4,4'-DDT	13.3	12.6	3.33		95	65 - 132%

EX991110-5LCSD

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	LCSD % Rec.	Result Qualifier	RPD	RPD Limits
58-89-9	GAMMA-BHC (LINDANE)	13.3	13.6	1.67	102		0	20
76-44-8	HEPTACHLOR	13.3	14.2	1.67	106		1	20
309-00-2	ALDRIN	13.3	14.4	1.67	108		0	20
60-57-1	DIELDRIN	13.3	13.7	3.33	103		1	20
72-20-8	ENDRIN	13.3	11.7	3.33	88		5	20
50-29-3	4,4'-DDT	13.3	12.4	3.33	93		2	20

Surrogate Recovery LCS/LCSD

CASNO	Target Analyte	Spike Added	LCS % Rec.	LCS Flag	LCSD % Rec.	LCSD Flag	Control Limits
2051-24-3	DECACHLOROBIPHENYL	16.7	80		78		34 - 129
877-09-8	TETRACHLORO-M-XYLENE	16.7	102		102		47 - 137

Data Package ID: *PT9911025-2*

Organochlorine Pesticides

Method SW8081

Matrix Spike And Matrix Spike Duplicate

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9911025
Client Name: Washington State Dept. of Ecology
ClientProject ID: ALE DDT Screening Work Assignment # 9

ALE3
9911025-3MS

Sample Matrix: SOIL
% Moisture: 4.3
Date Collected: 02-Nov-99
Date Extracted: 10-Nov-99
Date Analyzed: 17-Nov-99

Prep Batch: EX991110-5
QCBatchID: EX991110-5-1
Run ID: PT991116-4
Cleanup: SW3620
Basis: Dry Weight

Sample Aliquot: 30 G
Final Volume: 10 ML
Result Units: UG/KG

CASNO	Target Analyte	Sample Result	Samp Qual	MS Result	MS Qual	Reporting Limit	Spike Added	MS % Rec.	Control Limits
58-89-9	GAMMA-BHC (LINDANE)	1.7	U	14.3		1.74	13.9	103	65 - 119%
76-44-8	HEPTACHLOR	1.7	U	15.5		1.74	13.9	111	48 - 135%
309-00-2	ALDRIN	1.7	U	15.1		1.74	13.9	109	66 - 122%
60-57-1	DIELDRIN	3.5	U	15.4		3.48	13.9	110	64 - 134%
72-20-8	ENDRIN	3.5	U	16.2		3.48	13.9	116	58 - 144%
50-29-3	4,4'-DDT	1600	E	1790	E	3.48	13.9	1169	65 - 132%

9911025-3MSD

CASNO	Target Analyte	Spike Added	MSD Result	MSD Qual	Reporting Limit	MSD % Rec.	RPD	RPD Limits
58-89-9	GAMMA-BHC (LINDANE)	13.9	13.6		1.74	97	5	20
76-44-8	HEPTACHLOR	13.9	14.2		1.74	102	8	20
309-00-2	ALDRIN	13.9	14.4		1.74	104	5	20
60-57-1	DIELDRIN	13.9	15.2		3.48	109	1	20
72-20-8	ENDRIN	13.9	14.7		3.48	106	10	20
50-29-3	4,4'-DDT	13.9	1620	E	3.48	-66	10	20

Surrogate Recovery MS/MSD

CASNO	Target Analyte	Spike Added	MS % Rec.	MS Flag	MSD % Rec.	MSD Flag	Control Limits
2051-24-3	DECACHLOROBIPHENYL	17.4	79		76		34 - 129
877-09-8	TETRACHLORO-M-XYLENE	17.4	103		98		47 - 137

Data Package ID: *PT9911025-2*

[redacted]

Start Date: 11/10/99	**End Date:** 11/10/99	**Concentration Method:** CKIS	**Batch Created By:** bch
Start Time: 13:58	**End Time:** 13:58	**Extract Method:** SW3540	**Date Created:** 11/10/99
Prep Analyst: Jacob Gruzalski		**Initial Volume Units:** G	**Time Created:** 13:58
		Final Volume Units: ML	**Validated By:** bch
			Date Validated: 11/11/99
			Time Validated: 13:00

Comments:

QC Batch ID: EX991110-5-1

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
EX991110-5	MB	XXXXXX	SOIL	XXXXXX	30	10	SW3620	1	9911025
EX991110-5	LCS	XXXXXX	SOIL	XXXXXX	30	10	SW3620	1	9911025
EX991110-5	LCSD	XXXXXX	SOIL	XXXXXX	30	10	SW3620	1	9911025
9911025-3	MS	ALE3	SOIL	11/2/99	30	10	SW3620	1	9911025
9911025-3	MSD	ALE3	SOIL	11/2/99	30	10	SW3620	1	9911025
9911025-1	SMP	ALE1	SOIL	11/2/99	30	10	SW3620	1	9911025
9911025-2	SMP	ALE2	SOIL	11/2/99	30	10	SW3620	1	9911025
9911025-3	SMP	ALE3	SOIL	11/2/99	30	10	SW3620	1	9911025

QC Types

DUP	Laboratory Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MB	Method Blank
MS	Laboratory Matrix Spike
MSD	Laboratory Matrix Spike Duplicate
SMP	Field Sample

Organochlorine Pesticides

Method SW8081

Column Comparison

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9911025
Client Name: Washington State Dept. of Ecology
ClientProject ID: ALE DDT Screening Work Assignment # 9

[redacted]	ALE1
[redacted]	9911025-1

Sample Matrix: SOIL
% Moisture: 4.9
Date Collected: 02-Nov-99
Date Extracted: 10-Nov-99
Date Analyzed: 17-Nov-99

Prep Batch: EX991110-5
QCBatchID: EX991110-5-1
Run ID: PT991116-4
Cleanup: SW3620
Basis: Dry Weight

Sample Aliquot: 30 G
Final Volume: 10 ML
Result Units: UG/KG

CASNO	Target Analyte	Column 1 Result	Column 2 Result	%D	Column 1 %Rec	Column 2 %Rec
72-55-9	4,4'-DDE	120	120	0.0		
50-29-3	4,4'-DDT	14	16	14.3		
877-09-8	TETRACHLORO-M-XYLENE	17.7	19.3	9.0	101	110
2051-24-3	DECACHLOROBIPHENYL	13	13.5	3.8	74	77

Data Package ID: *PT9911025-2*

Organochlorine Pesticides

Method SW8081
Column Comparison

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9911025
Client Name: Washington State Dept. of Ecology
ClientProject ID: ALE DDT Screening Work Assignment # 9

[redacted]	ALE2
[redacted]	9911025-2

Sample Matrix: SOIL
% Moisture: 4.9
Date Collected: 02-Nov-99
Date Extracted: 10-Nov-99
Date Analyzed: 17-Nov-99

Prep Batch: EX991110-5
QCBatchID: EX991110-5-1
Run ID: PT991116-4
Cleanup: SW3620
Basis: Dry Weight

Sample Aliquot: 30 G
Final Volume: 10 ML
Result Units: UG/KG

CASNO	Target Analyte	Column 1 Result	Column 2 Result	%D	Column 1 %Rec	Column 2 %Rec
72-55-9	4,4'-DDE	1500	1700	13.3		
72-54-8	4,4'-DDD	35	49	40.0		
50-29-3	4,4'-DDT	1200	1100	9.1		
877-09-8	TETRACHLORO-M-XYLENE	17.7	19.2	8.5	101	110
2051-24-3	DECACHLOROBIPHENYL	13.7	13.8	0.7	78	79

Data Package ID: *PT9911025-2*

Organochlorine Pesticides

Method SW8081

Column Comparison

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9911025
Client Name: Washington State Dept. of Ecology
ClientProject ID: ALE DDT Screening Work Assignment # 9

[redacted]	ALE3
[redacted]	9911025-3

Sample Matrix: SOIL
% Moisture: 4.3
Date Collected: 02-Nov-99
Date Extracted: 10-Nov-99
Date Analyzed: 17-Nov-99

Prep Batch: EX991110-5
QCBatchID: EX991110-5-1
Run ID: PT991116-4
Cleanup: SW3620
Basis: Dry Weight

Sample Aliquot: 30 G
Final Volume: 10 ML
Result Units: UG/KG

CASNO	Target Analyte	Column 1 Result	Column 2 Result	%D	Column 1 %Rec	Column 2 %Rec
72-55-9	4,4'-DDE	1100	920	19.6		
72-54-8	4,4'-DDD	73	90	23.3		
50-29-3	4,4'-DDT	1600	1700	6.3		
877-09-8	TETRACHLORO-M-XYLENE	16.9	18.5	9.5	97	106
2051-24-3	DECACHLOROBIPHENYL	13.1	13.7	4.6	75	79

Data Package ID: *PT9911025-2*

Organochlorine Pesticides

Method SW8081

Column Comparison

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9911025
Client Name: Washington State Dept. of Ecology
ClientProject ID: ALE DDT Screening Work Assignment # 9

ALE1	
9911025-1RR1	

Sample Matrix: SOIL
% Moisture: 4.9
Date Collected: 02-Nov-99
Date Extracted: 10-Nov-99
Date Analyzed: 17-Nov-99

Prep Batch: EX991110-5
QCBatchID: EX991110-5-1
Run ID: PT991117-4
Cleanup: SW3620
Basis: Dry Weight

Sample Aliquot: 30 G
Final Volume: 10 ML
Result Units: UG/KG

CASNO	Target Analyte	Column 1 Result	Column 2 Result	%D	Column 1 %Rec	Column 2 %Rec
72-55-9	4,4'-DDE	120	130	8.3		
50-29-3	4,4'-DDT	13	15	15.4		
877-09-8	TETRACHLORO-M-XYLENE				0	0
2051-24-3	DECACHLOROBIPHENYL				0	0

Data Package ID: *PT9911025-1*

Organochlorine Pesticides

Method SW8081

Column Comparison

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9911025
Client Name: Washington State Dept. of Ecology
ClientProject ID: ALE DDT Screening Work Assignment # 9

	ALE2
	9911025-2RR1

Sample Matrix: SOIL
% Moisture: 4.9
Date Collected: 02-Nov-99
Date Extracted: 10-Nov-99
Date Analyzed: 17-Nov-99

Prep Batch: EX991110-5
QCBatchID: EX991110-5-1
Run ID: PT991117-4
Cleanup: SW3620
Basis: Dry Weight

Sample Aliquot: 30 G
Final Volume: 10 ML
Result Units: UG/KG

CASNO	Target Analyte	Column 1 Result	Column 2 Result	%D	Column 1 %Rec	Column 2 %Rec
72-55-9	4,4'-DDE	2200	2300	4.5		
50-29-3	4,4'-DDT	960	1100	14.6		
877-09-8	TETRACHLORO-M-XYLENE				0	0
2051-24-3	DECACHLOROBIPHENYL				0	0

Data Package ID: *PT9911025-1*

Organochlorine Pesticides

Method SW8081

Column Comparison

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9911025
Client Name: Washington State Dept. of Ecology
ClientProject ID: ALE DDT Screening Work Assignment # 9

[redacted]	ALE3
[redacted]	9911025-3RR1

Sample Matrix: SOIL
% Moisture: 4.3
Date Collected: 02-Nov-99
Date Extracted: 10-Nov-99
Date Analyzed: 17-Nov-99

Prep Batch: EX991110-5
QCBatchID: EX991110-5-1
Run ID: PT991117-4
Cleanup: SW3620
Basis: Dry Weight

Sample Aliquot: 30 G
Final Volume: 10 ML
Result Units: UG/KG

CASNO	Target Analyte	Column 1 Result	Column 2 Result	%D	Column 1 %Rec	Column 2 %Rec
72-55-9	4,4'-DDE	1000	1100	10.0		
72-54-8	4,4'-DDD	170	180	5.9		
50-29-3	4,4'-DDT	1700	1900	11.8		
877-09-8	TETRACHLORO-M-XYLENE				0	0
2051-24-3	DECACHLOROBIPHENYL				0	0

Data Package ID: *PT9911025-1*

Pesticides Breakdown Report

Paragon Analytics, Inc.

Sample: PEM MX-A20-19 20%

Inst. ID: ECD4
Date: 16 Nov 99 09:45 AM

Data file #1: C:\HPCHEM\5\DATA\991116\EC111601.D
Data file #2: C:\HPCHEM\5\DATA\991116\EC111601.D\EC111B01.D

$$\% \text{ breakdown for 4,4'-DDT} = \frac{\text{Total DDT degradation peak area (DDE + DDD)}}{\text{Total DDT peak area (DDT + DDE + DDD)}} \times 100$$

Compound	Column #1 Area	Column #2 Area
4,4'-DDT	4928117	3646948
4,4'-DDE	132525	96460
4,4'-DDD	52495	46453
% breakdown	3.62	3.77

$$\% \text{ breakdown for Endrin} = \frac{\text{Total endrin degradation peak area (endrin aldehyde + endrin ketone)}}{\text{Total endrin peak area (endrin + endrin aldehyde + endrin ketone)}} \times 100$$

Compound	Column #1 Area	Column #2 Area
Endrin	2428473	2006104
Endrin Aldehyde	118944	108314
Endrin Ketone	0	0
% breakdown	4.67	5.12

Initial Calibration Summary

Paragon Analytics, Inc.

Method: C:\HPCHEM\5\METHODS\OC111699.M
Calibration Date: 11/16/99

Inst. ID: ECD4
Colunm #1: RTX-CLPesticides

Calibration files
1 = EC111608.D 2 = EC111607.D 3 = EC111606.D
4 = EC111605.D 5 = EC111604.D 6 =

	Calibration Factors								Corr Coef	Curve Fit
Compoumds	1	2	3	4	5	6	Ave. CF	%RSD	r2	Type
Tetrachloro-m-xylene (surr)	31701	31257	31006	29616	28453		30406	4.4	1.000	Linear
alpha-BHC	28223	28662	30945	34112	35955		31579	10.7	0.999	Linear
gamma-BHC (Lindane)	27659	28242	30193	32261	33231		30317	8.0	1.000	Linear
Heptachlor	33197	32416	32669	32193	31740		32443	1.7	1.000	Linear
Aldrin	24014	24573	25748	27051	27898		25857	6.3	1.000	Linear
beta-BHC	16754	16553	16751	16226	15886		16434	2.3	NA	Ave rf
delta-BHC	22509	22146	22660	23730	24988		23207	5.0	0.999	Linear
Heptachlor Epoxide	28822	28193	28528	28613	28757		28583	0.9	1.000	Linear
Endosulfan I	29024	28797	28404	28407	28655		28658	0.9	1.000	Linear
gamma-Chlordane	30321	31987	30091	29362	29196		30192	3.7	1.000	Linear
alpha-Chlordane	31990	32696	30824	29790	29316		30923	4.6	1.000	Linear
4,4'-DDE	25120	25641	26544	27849	28267		26684	5.1	1.000	Linear
Dieldrin	27224	27014	28116	29492	29886		28346	4.6	1.000	Linear
Endrin	19478	19811	20679	21645	22195		20762	5.6	1.000	Linear
4,4'-DDD	21018	20952	22090	23272	23715		22209	5.7	1.000	Linear
Endosulfan II	24998	24753	25975	26419	26358		25701	3.0	1.000	Linear
4,4'-DDT	34152	24476	25422	25964	25973		27198	14.5	1.000	Linear
Endrin Aldehyde	34277	28383	26192	23575	21460		26777	18.5	0.999	Linear
Methoxychlor	12660	12196	11808	10860	10329		11571	8.3	0.999	Linear
Endosulfan Sulfate	17050	17269	17654	17650	17537		17432	1.5	1.000	Linear
Endrin Ketone	24217	24532	25091	24596	23796		24446	2.0	1.000	Linear
Decachlorobiphenyl (surr)	28935	27253	25717	22962	21107		25195	12.6	0.998	Linear

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Initial Calibration Summary

Paragon Analytics, Inc.

Method: C:\HPCHEM\5\METHODS\OC111699.M
Calibration Date: 11/16/99

Inst. ID: ECD4
Colunm #2: RTX-CLPesticidesII

Calibration files
1 = EC111608.D 2 = EC111607.D 3 = EC111606.D
4 = EC111605.D 5 = EC111604.D 6 =

	Calibration Factors								Corr Coef	Curve Fit
Compoumds	1	2	3	4	5	6	Ave. CF	%RSD	r2	Type
Tetrachloro-m-xylene (surr)	26660	25999	25370	23705	22111		24769	7.5	0.999	Linear
alpha-BHC	25137	25584	26893	28427	28908		26990	6.2	1.000	Linear
gamma-BHC (Lindane)	26045	25611	26580	26938	26804		26396	2.1	1.000	Linear
Heptachlor	30877	29484	29253	27830	26734		28835	5.5	1.000	Linear
Aldrin	21302	21366	22112	22429	22722		21986	2.9	1.000	Linear
beta-BHC	15098	14890	14682	13964	13193		14365	5.4	NA	Ave rf
delta-BHC	17629	18279	18829	19311	19740		18757	4.4	1.000	Linear
Heptachlor Epoxide	25551	26044	25614	24786	24247		25248	2.9	1.000	Linear
Endosulfan I	24278	24691	24515	25510	24672		24733	1.9	1.000	Linear
gamma-Chlordane	26025	25984	25877	24978	24256		25424	3.1	1.000	Linear
alpha-Chlordane	25773	26512	26381	25607	24621		25779	2.9	1.000	Linear
4,4'-DDE	21978	22351	23124	23779	23598		22966	3.4	1.000	Linear
Dieldrin	27802	25615	25546	25443	25040		25889	4.2	1.000	Linear
Endrin	18313	17759	17854	18393	18617		18187	2.0	1.000	Linear
4,4'-DDD	19017	18639	19392	19907	19879		19367	2.8	1.000	Linear
Endosulfan II	22843	22402	22472	22078	21451		22249	2.3	1.000	Linear
4,4'-DDT	18130	19262	19174	19443	19143		19030	2.7	1.000	Linear
Endrin Aldehyde	25024	22716	20924	18891	17577		21026	14.1	0.999	Linear
Methoxychlor	11036	10432	9866	8900	8321		9711	11.4	0.999	Linear
Endosulfan Sulfate	17213	16358	16009	15338	14918		15967	5.6	1.000	Linear
Endrin Ketone	18312	18822	19312	18815	18109		18674	2.5	1.000	Linear
Decachlorobiphenyl (surr)	24181	22475	20931	18267	16516		20474	15.2	0.998	Linear

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Initial Calibration Summary

Paragon Analytics, Inc.

Method: C:\HPCHEM\5\METHODS\OC111699.M

Inst. ID: ECD4

Calibration Date: 11/16/99

Calibration files

1 = EC111608.D 2 = EC111607.D 3 = EC111606.D

4 = EC111605.D 5 = EC111604.D 6 =

Compoumds	Linear Equation Column #1 Area = Slope X Concentration + Intercept	Linear Equation Column #2 Area = Slope X Concentration + Intercept
Tetrachloro-m-xylene (surr)	Y = (28228) X + (39009)	Y = (21812) X + (52362)
alpha-BHC	Y = (36555) X + (-41506)	Y = (29211) X + (-17254)
gamma-BHC (Lindane)	Y = (33658) X + (-26602)	Y = (26902) X + (-3168)
Heptachlor	Y = (31669) X + (6837)	Y = (26483) X + (19981)
Aldrin	Y = (28173) X + (-18891)	Y = (22820) X + (-6573)
beta-BHC	Y = (16434) X + (0)	Y = (14365) X + (0)
delta-BHC	Y = (25172) X + (-18430)	Y = (19863) X + (-8769)
Heptachlor Epoxide	Y = (28777) X + (-2084)	Y = (24116) X + (10297)
Endosulfan I	Y = (28627) X + (-900)	Y = (24778) X + (1735)
gamma-Chlordane	Y = (29013) X + (9359)	Y = (24121) X + (11953)
alpha-Chlordane	Y = (29066) X + (14728)	Y = (24516) X + (12866)
4,4'-DDE	Y = (28514) X + (-28613)	Y = (23739) X + (-9427)
Dieldrin	Y = (30137) X + (-28696)	Y = (24958) X + (12992)
Endrin	Y = (22395) X + (-26448)	Y = (18681) X + (-9681)
4,4'-DDD	Y = (23949) X + (-27796)	Y = (19986) X + (-8947)
Endosulfan II	Y = (26491) X + (-10397)	Y = (21383) X + (16160)
4,4'-DDT	Y = (25856) X + (7218)	Y = (19194) X + (465)
Endrin Aldehyde	Y = (20788) X + (91603)	Y = (17114) X + (61398)
Methoxychlor	Y = (10162) X + (117444)	Y = (8134) X + (129081)
Endosulfan Sulfate	Y = (17567) X + (-526)	Y = (14780) X + (18846)
Endrin Ketone	Y = (23766) X + (16190)	Y = (18081) X + (14543)
Decachlorobiphenyl (surr)	Y = (20578) X + (153406)	Y = (15998) X + (147807)

Y = area X = Concentration

Colunm #1: RTX-CLPesticides Colunm #2: RTX-CLPesticidesII

Initial Calibration Summary

Paragon Analytics, Inc.

Method: C:\HPCHEM\5\METHODS\OC111699.M

Inst. ID: ECD4

Calibration Date: 11/16/99

Calibration files

1 = EC111608.D 2 = EC111607.D 3 = EC111606.D

4 = EC111605.D 5 = EC111604.D 6 =

	Initial Calibration Concentration Levels (ng/ml)					
Compoumds	1	2	3	4	5	6
Tetrachloro-m-xylene (surr)	5	10	20	50	100	
alpha-BHC	2.5	5	10	25	50	
gamma-BHC (Lindane)	2.5	5	10	25	50	
Heptachlor	2.5	5	10	25	50	
Aldrin	2.5	5	10	25	50	
beta-BHC	2.5	5	10	25	50	
delta-BHC	2.5	5	10	25	50	
Heptachlor Epoxide	2.5	5	10	25	50	
Endosulfan I	2.5	5	10	25	50	
gamma-Chlordane	2.5	5	10	25	50	
alpha-Chlordane	2.5	5	10	25	50	
4,4'-DDE	5	10	20	50	100	
Dieldrin	5	10	20	50	100	
Endrin	5	10	20	50	100	
4,4'-DDD	5	10	20	50	100	
Endosulfan II	5	10	20	50	100	
4,4'-DDT	5	10	20	50	100	
Endrin Aldehyde	5	10	20	50	100	
Methoxychlor	25	50	100	250	500	
Endosulfan Sulfate	5	10	20	50	100	
Endrin Ketone	5	10	20	50	100	
Decachlorobiphenyl (surr)	10	20	40	100	200	

000031

Initial Calibration Summary

Paragon Analytics, Inc.

Method: C:\HPCHEM\5\METHODS\OC111699.M
Calibration Date: 11/16/99

Inst. ID: ECD4

Calibration files
1 = EC111608.D 2 = EC111607.D 3 = EC111606.D
4 = EC111605.D 5 = EC111604.D 6 =

	Column #1	RT Window		Column #2	RT Window	
Compoumds	RT	From	To	RT	From	To
Tetrachloro-m-xylene (surr)	8.056	7.956	8.156	8.062	7.962	8.162
alpha-BHC	9.209	9.109	9.309	9.315	9.215	9.415
gamma-BHC (Lindane)	9.830	9.730	9.930	10.001	9.901	10.101
Heptachlor	10.710	10.610	10.810	10.813	10.713	10.913
Aldrin	11.256	11.156	11.356	11.397	11.297	11.497
beta-BHC	9.998	9.898	10.098	10.148	10.048	10.248
delta-BHC	10.336	10.236	10.436	10.692	10.592	10.792
Heptachlor Epoxide	12.449	12.349	12.549	12.532	12.432	12.632
Endosulfan I	13.360	13.260	13.460	13.450	13.350	13.550
gamma-Chlordane	12.719	12.619	12.819	12.951	12.851	13.051
alpha-Chlordane	13.020	12.920	13.120	13.301	13.201	13.401
4,4'-DDE	13.180	13.080	13.280	13.722	13.622	13.822
Dieldrin	13.973	13.873	14.073	14.178	14.078	14.278
Endrin	14.640	14.540	14.740	15.102	15.002	15.202
4,4'-DDD	14.821	14.721	14.921	15.473	15.373	15.573
Endosulfan II	15.348	15.248	15.448	15.757	15.657	15.857
4,4'-DDT	15.691	15.591	15.791	16.335	16.235	16.435
Endrin Aldehyde	16.466	16.366	16.566	16.613	16.513	16.713
Methoxychlor	16.881	16.781	16.981	17.769	17.669	17.869
Endosulfan Sulfate	17.387	17.287	17.487	17.201	17.101	17.301
Endrin Ketone	17.903	17.803	18.003	18.172	18.072	18.272
Decachlorobiphenyl (surr)	19.648	19.548	19.748	20.455	20.355	20.555

Colunm #1: RTX-CLPesticides Colunm #2: RTX-CLPesticidesII

Calibration Verification Summary

Paragon Analytics, Inc.

Sample: ICV PEST MX-C76-03 20%

Inst. ID: ECD4
Date Aquired:16 Nov 99 01:48 P

Data File #1: C:\HPCHEM\5\DATA\991116\EC111609.D
Data File #2: C:\HPCHEM\5\DATA\991116\EC111609.D\EC111B09.D

	Column #1			Column #2				Col. #1	Col.#2	Col. #1	Col.#2
COMPOUND	Exp. RT (min)	Found RT (min)	Dev (min)	Exp. RT (min)	Found RT (min)	Dev (min)	Nom Conc ng/ml	Conc ng/ml	Conc ng/ml	%D	%D
Tetrachloro-m-xylene (surr	8.056	8.053	0.003	8.062	8.059	0.003	50	51.64	53.04	3.28	6.07
alpha-BHC	9.209	9.206	0.003	9.315	9.311	0.003	25	23.92	24.70	4.34	1.19
gamma-BHC (Lindane)	9.830	9.828	0.003	10.001	9.997	0.004	25	24.37	25.03	2.54	0.12
Heptachlor	10.710	10.708	0.002	10.813	10.809	0.004	25	25.07	25.40	0.29	1.62
Aldrin	11.256	11.253	0.003	11.397	11.393	0.004	25	26.26	26.93	5.06	7.70
beta-BHC	9.998	9.995	0.003	10.148	10.145	0.003	25	27.71	27.44	10.84	9.75
delta-BHC	10.336	10.333	0.003	10.692	10.688	0.004	25	27.34	28.33	9.34	13.33
Heptachlor Epoxide	12.449	12.445	0.003	12.532	12.527	0.005	25	25.82	27.11	3.29	8.43
Endosulfan I	13.360	13.357	0.004	13.450	13.444	0.005	25	23.72	24.71	5.14	1.17
gamma-Chlordane	12.719	12.716	0.003	12.951	12.946	0.005	25	26.17	26.64	4.69	6.58
alpha-Chlordane	13.020	13.016	0.004	13.301	13.296	0.005	25	26.19	26.58	4.74	6.34
4,4'-DDE	13.180	13.177	0.004	13.722	13.716	0.006	50	51.54	52.29	3.07	4.58
Dieldrin	13.973	13.970	0.003	14.178	14.172	0.006	50	48.78	50.00	2.45	0.01
Endrin	14.640	14.637	0.003	15.102	15.095	0.006	50	47.84	48.24	4.31	3.52
4,4'-DDD	14.821	14.817	0.004	15.473	15.467	0.006	50	48.31	49.07	3.38	1.86
Endosulfan II	15.348	15.344	0.004	15.757	15.751	0.006	50	51.55	52.41	3.10	4.82
4,4'-DDT	15.691	15.688	0.003	16.335	16.330	0.005	50	46.77	49.86	6.46	0.27
Endrin Aldehyde	16.466	16.463	0.003	16.613	16.609	0.005	50	50.58	50.62	1.17	1.25
Methoxychlor	16.881	16.878	0.003	17.769	17.766	0.004	250	270.78	271.66	8.31	8.67
Endosulfan Sulfate	17.387	17.385	0.002	17.201	17.197	0.004	50	53.41	53.75	6.82	7.50
Endrin Ketone	17.903	17.900	0.003	18.172	18.168	0.004	50	54.05	54.35	8.10	8.71
Decachlorobiphenyl (surr)	19.648	19.645	0.003	20.455	20.450	0.005	100	103.85	104.77	3.85	4.77

Column #1: RTX-CLPesticides

Column #2: RTX-50

000033

Calibration Verification Summary

000034

Paragon Analytics, Inc.

Inst. ID: ECD4

Sample: PEST MX-C38-08 20% CCV

Date Aquired:16 Nov 99 11:55 P

Data File #1: C:\HPCHEM\5\DATA\991116\EC111627.D
Data File #2: C:\HPCHEM\5\DATA\991116\EC111627.D\EC111B27.D

	Column #1			Column #2				Col. #1	Col.#2	Col. #1	Col.#2
COMPOUND	Exp. RT (min)	Found RT (min)	Dev (min)	Exp. RT (min)	Found RT (min)	Dev (min)	Nom Conc ng/ml	Conc ng/ml	Conc ng/ml	%D	%D
Tetrachloro-m-xylene (surr	8.056	8.053	0.003	8.062	8.053	0.009	50	51.16	55.23	2.33	10.46
alpha-BHC	9.209	9.206	0.003	9.315	9.305	0.010	25	24.76	26.70	0.98	6.79
gamma-BHC (Lindane)	9.830	9.827	0.003	10.001	9.992	0.009	25	25.06	26.92	0.23	7.69
Heptachlor	10.710	10.707	0.003	10.813	10.803	0.010	25	25.83	26.60	3.33	6.39
Aldrin	11.256	11.252	0.003	11.397	11.386	0.011	25	24.78	26.26	0.88	5.06
beta-BHC	9.998	9.995	0.003	10.148	10.139	0.009	25	24.81	25.63	0.78	2.51
delta-BHC	10.336	10.333	0.003	10.692	10.682	0.010	25	25.10	27.09	0.42	8.34
Heptachlor Epoxide	12.449	12.444	0.004	12.532	12.518	0.014	25	25.40	27.19	1.61	8.78
Endosulfan I	13.360	13.355	0.005	13.450	13.434	0.016	25	24.82	26.47	0.73	5.87
gamma-Chlordane	12.719	12.714	0.005	12.951	12.936	0.015	25	25.21	26.92	0.85	7.67
alpha-Chlordane	13.020	13.015	0.005	13.301	13.285	0.016	25	25.07	26.73	0.29	6.91
4,4'-DDE	13.180	13.175	0.005	13.722	13.705	0.017	50	49.06	52.44	1.87	4.87
Dieldrin	13.973	13.967	0.006	14.178	14.160	0.018	50	50.06	52.99	0.13	5.98
Endrin	14.640	14.633	0.007	15.102	15.081	0.020	50	43.33	45.23	13.34	9.53
4,4'-DDD	14.821	14.815	0.006	15.473	15.455	0.018	50	51.45	54.18	2.91	8.36
Endosulfan II	15.348	15.341	0.007	15.757	15.739	0.018	50	50.69	53.42	1.37	6.84
4,4'-DDT	15.691	15.685	0.005	16.335	16.320	0.015	50	48.77	50.92	2.46	1.83
Endrin Aldehyde	16.466	16.461	0.005	16.613	16.599	0.015	50	52.84	54.96	5.69	9.92
Methoxychlor	16.881	16.877	0.004	17.769	17.759	0.011	250	251.03	253.06	0.41	1.23
Endosulfan Sulfate	17.387	17.384	0.004	17.201	17.189	0.013	50	51.17	53.75	2.34	7.50
Endrin Ketone	17.903	17.899	0.004	18.172	18.161	0.011	50	53.75	55.85	7.49	11.69
Decachlorobiphenyl (surr)	19.648	19.644	0.004	20.455	20.440	0.015	100	104.42	107.72	4.42	7.72

Column #1: RTX-CLPesticides

Column #2: RTX-50

Calibration Verification Summary

Paragon Analytics, Inc.

Sample: PEST MX-C38-08 20% CCV

Inst. ID: ECD4
Date Aquired:17 Nov 99 04:58 A

Data File #1: C:\HPCHEM\5\DATA\991116\EC111636.D
Data File #2: C:\HPCHEM\5\DATA\991116\EC111636.D\EC111B36.D

	Column #1			Column #2				Col. #1	Col.#2	Col. #1	Col.#2
COMPOUND	Exp. RT (min)	Found RT (min)	Dev (min)	Exp. RT (min)	Found RT (min)	Dev (min)	Nom Conc ng/ml	Conc ng/ml	Conc ng/ml	%D	%D
Tetrachloro-m-xylene (surr	8.056	8.054	0.002	8.062	8.051	0.011	50	51.18	55.62	2.35	11.25
alpha-BHC	9.209	9.207	0.002	9.315	9.303	0.012	25	24.52	26.97	1.92	7.88
gamma-BHC (Lindane)	9.830	9.828	0.002	10.001	9.990	0.011	25	24.79	27.06	0.85	8.26
Heptachlor	10.710	10.708	0.002	10.813	10.801	0.012	25	25.51	26.81	2.03	7.23
Aldrin	11.256	11.254	0.002	11.397	11.384	0.013	25	24.24	26.30	3.05	5.21
beta-BHC	9.998	9.996	0.002	10.148	10.138	0.010	25	24.59	25.83	1.65	3.30
delta-BHC	10.336	10.334	0.002	10.692	10.681	0.011	25	24.78	27.28	0.87	9.13
Heptachlor Epoxide	12.449	12.446	0.003	12.532	12.516	0.016	25	24.93	26.86	0.28	7.44
Endosulfan I	13.360	13.357	0.003	13.450	13.431	0.019	25	24.44	25.60	2.25	2.39
gamma-Chlordane	12.719	12.716	0.003	12.951	12.933	0.018	25	24.58	26.80	1.69	7.20
alpha-Chlordane	13.020	13.017	0.003	13.301	13.282	0.019	25	25.24	26.40	0.96	5.62
4,4'-DDE	13.180	13.177	0.003	13.722	13.703	0.019	50	49.95	53.76	0.09	7.53
Dieldrin	13.973	13.970	0.003	14.178	14.157	0.021	50	49.21	52.69	1.57	5.37
Endrin	14.640	14.636	0.004	15.102	15.078	0.024	50	49.23	52.24	1.54	4.49
4,4'-DDD	14.821	14.818	0.003	15.473	15.452	0.021	50	51.63	55.36	3.26	10.71
Endosulfan II	15.348	15.344	0.004	15.757	15.736	0.020	50	49.72	53.38	0.56	6.76
4,4'-DDT	15.691	15.687	0.003	16.335	16.318	0.017	50	45.91	48.46	8.18	3.09
Endrin Aldehyde	16.466	16.463	0.003	16.613	16.597	0.017	50	48.01	50.87	3.99	1.75
Methoxychlor	16.881	16.879	0.002	17.769	17.757	0.012	250	240.52	243.28	3.79	2.69
Endosulfan Sulfate	17.387	17.386	0.002	17.201	17.186	0.015	50	48.75	52.34	2.51	4.69
Endrin Ketone	17.903	17.900	0.002	18.172	18.159	0.013	50	50.19	52.49	0.38	4.98
Decachlorobiphenyl (surr)	19.648	19.646	0.002	20.455	20.438	0.017	100	100.91	105.43	0.91	5.43

Column #1: RTX-CLPesticides

Column #2: RTX-50

Pesticides Breakdown Report

Paragon Analytics, Inc.

Sample: PEM MX-A20-19 20%

Inst. ID: ECD4
Date: 17 Nov 99 07:03 PM

Data file #1: C:\HPCHEM\5\DATA\991117\EC111701.D
Data file #2: C:\HPCHEM\5\DATA\991117\EC111701.D\EC111B01.D

$$\% \text{ breakdown for 4,4'-DDT} = \frac{\text{Total DDT degradation peak area (DDE + DDD)}}{\text{Total DDT peak area (DDT + DDE + DDD)}} \times 100$$

Compound	Column #1 Area	Column #2 Area
4,4'-DDT	4662751	3545120
4,4'-DDE	93219	68517
4,4'-DDD	228805	202689
% breakdown	6.46	7.11

$$\% \text{ breakdown for Endrin} = \frac{\text{Total endrin degradation peak area (endrin aldehyde + endrin ketone)}}{\text{Total endrin peak area (endrin + endrin aldehyde + endrin ketone)}} \times 100$$

Compound	Column #1 Area	Column #2 Area
Endrin	2231513	1921316
Endrin Aldehyde	214613	171035
Endrin Ketone	158478	118415
% breakdown	14.32	13.09

Calibration Verification Summary

Paragon Analytics, Inc.

Sample: PEST MX-C38-08 20% CCV

Inst. ID: ECD4
Date Aquired:17 Nov 99 07:34 P

Data File #1: C:\HPCHEM\5\DATA\991117\EC111702.D
Data File #2: C:\HPCHEM\5\DATA\991117\EC111702.D\EC111B02.D

	Column #1			Column #2				Col. #1	Col.#2	Col. #1	Col.#2
COMPOUND	Exp. RT (min)	Found RT (min)	Dev (min)	Exp. RT (min)	Found RT (min)	Dev (min)	Nom Conc ng/ml	Conc ng/ml	Conc ng/ml	%D	%D
Tetrachloro-m-xylene (surr	8.056	8.054	0.002	8.062	8.049	0.013	50	52.14	55.24	4.28	10.49
alpha-BHC	9.209	9.208	0.002	9.315	9.301	0.014	25	25.23	27.10	0.93	8.38
gamma-BHC (Lindane)	9.830	9.829	0.002	10.001	9.988	0.013	25	25.55	27.15	2.20	8.59
Heptachlor	10.710	10.709	0.001	10.813	10.799	0.014	25	26.19	27.02	4.75	8.08
Aldrin	11.256	11.255	0.001	11.397	11.382	0.015	25	25.07	26.39	0.28	5.58
beta-BHC	9.998	9.997	0.001	10.148	10.136	0.012	25	25.29	25.84	1.17	3.36
delta-BHC	10.336	10.335	0.001	10.692	10.679	0.013	25	25.79	27.41	3.14	9.65
Heptachlor Epoxide	12.449	12.447	0.001	12.532	12.514	0.018	25	25.56	26.80	2.24	7.20
Endosulfan I	13.360	13.359	0.002	13.450	13.428	0.021	25	25.27	26.73	1.09	6.92
gamma-Chlordane	12.719	12.718	0.001	12.951	12.932	0.019	25	25.10	26.46	0.41	5.85
alpha-Chlordane	13.020	13.019	0.001	13.301	13.281	0.020	25	25.40	26.60	1.59	6.40
4,4'-DDE	13.180	13.179	0.001	13.722	13.701	0.021	50	50.00	52.88	0.01	5.75
Dieldrin	13.973	13.972	0.001	14.178	14.154	0.024	50	50.25	52.78	0.50	5.55
Endrin	14.640	14.638	0.002	15.102	15.075	0.027	50	46.81	48.35	6.37	3.30
4,4'-DDD	14.821	14.820	0.001	15.473	15.449	0.024	50	52.71	55.26	5.43	10.51
Endosulfan II	15.348	15.346	0.002	15.757	15.734	0.023	50	51.04	53.68	2.08	7.35
4,4'-DDT	15.691	15.689	0.002	16.335	16.315	0.019	50	47.05	48.53	5.90	2.94
Endrin Aldehyde	16.466	16.465	0.001	16.613	16.595	0.018	50	52.55	53.35	5.10	6.70
Methoxychlor	16.881	16.881	0.000	17.769	17.756	0.014	250	242.22	239.94	3.11	4.02
Endosulfan Sulfate	17.387	17.388	-0.001	17.201	17.185	0.016	50	48.22	49.43	3.57	1.15
Endrin Ketone	17.903	17.902	0.000	18.172	18.157	0.014	50	52.27	53.80	4.54	7.61
Decachlorobiphenyl (surr)	19.648	19.648	0.000	20.455	20.436	0.019	100	102.48	105.32	2.48	5.32

Column #1: RTX-CLPesticides

Column #2: RTX-50

Calibration Verification Summary

Paragon Analytics, Inc.

Inst. ID: ECD4

Sample: PEST MX-C38-08 20% CCV

Date Aquired:18 Nov 99 00:07 A

Data File #1: C:\HPCHEM\5\DATA\991117\EC111710.D
Data File #2: C:\HPCHEM\5\DATA\991117\EC111710.D\EC111B10.D

	Column #1			Column #2				Col. #1	Col.#2	Col. #1	Col.#2
COMPOUND	Exp. RT (min)	Found RT (min)	Dev (min)	Exp. RT (min)	Found RT (min)	Dev (min)	Nom Conc ng/ml	Conc ng/ml	Conc ng/ml	%D	%D
Tetrachloro-m-xylene (surr	8.056	8.051	0.005	8.062	8.045	0.018	50	52.57	58.19	5.14	16.37
alpha-BHC	9.209	9.204	0.006	9.315	9.296	0.018	25	25.54	28.31	2.15	13.22
gamma-BHC (Lindane)	9.830	9.824	0.006	10.001	9.982	0.018	25	25.77	28.52	3.07	14.09
Heptachlor	10.710	10.704	0.006	10.813	10.794	0.019	25	26.67	28.33	6.69	13.32
Aldrin	11.256	11.250	0.006	11.397	11.376	0.021	25	25.48	27.69	1.92	10.74
beta-BHC	9.998	9.993	0.005	10.148	10.131	0.017	25	25.59	26.95	2.34	7.79
delta-BHC	10.336	10.330	0.006	10.692	10.673	0.019	25	25.87	28.65	3.47	14.61
Heptachlor Epoxide	12.449	12.441	0.007	12.532	12.506	0.025	25	26.08	27.90	4.32	11.60
Endosulfan I	13.360	13.351	0.009	13.450	13.420	0.030	25	25.56	27.47	2.24	9.87
gamma-Chlordane	12.719	12.711	0.008	12.951	12.923	0.028	25	25.65	27.73	2.61	10.91
alpha-Chlordane	13.020	13.011	0.008	13.301	13.272	0.029	25	25.88	27.70	3.54	10.80
4,4'-DDE	13.180	13.172	0.008	13.722	13.692	0.030	50	50.15	54.49	0.30	8.97
Dieldrin	13.973	13.964	0.010	14.178	14.145	0.033	50	50.98	54.89	1.96	9.77
Endrin	14.640	14.629	0.011	15.102	15.064	0.037	50	47.16	50.01	5.68	0.02
4,4'-DDD	14.821	14.811	0.010	15.473	15.439	0.034	50	53.32	57.40	6.63	14.81
Endosulfan II	15.348	15.337	0.011	15.757	15.724	0.033	50	51.71	55.54	3.42	11.07
4,4'-DDT	15.691	15.681	0.010	16.335	16.307	0.028	50	48.14	51.10	3.73	2.20
Endrin Aldehyde	16.466	16.458	0.008	16.613	16.588	0.026	50	50.07	55.25	0.13	10.50
Methoxychlor	16.881	16.874	0.007	17.769	17.750	0.020	250	248.71	248.21	0.52	0.72
Endosulfan Sulfate	17.387	17.381	0.006	17.201	17.178	0.023	50	48.68	50.88	2.63	1.76
Endrin Ketone	17.903	17.897	0.006	18.172	18.152	0.020	50	53.24	55.54	6.49	11.08
Decachlorobiphenyl (surr)	19.648	19.642	0.006	20.455	20.429	0.026	100	104.21	107.66	4.21	7.66

Column #1: RTX-CLPesticides

Column #2: RTX-50

Supporting Raw Data

Sequence Name: C:\HPCHEM\5\SEQUENCE\111699.S
Comment:
Operator: MBROWN
Data Path: C:\HPCHEM\5\DATA\991116\
Pre-Seq Cmd:
Post-Seq Cmd:

PT991116-4

WO 9911025

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1)	DeleteGC				
2)	MaskName -	-----B--			
3)	GCMethod -	4OC008			
4)	Sample	100	PRIME	OC111699	PRIME
5)	Sample	100	PRIME	OC111699	PRIME
6)	Sample	100	PRIME	OC111699	PRIME
7)	Sample	99	HEXANE1	OC111699	HEXANE
8)	Sample	1	EC111601	OC111699	PEM MX-A20-19 20%
9)	Sample	2	EC111602	TC111699	Chlordane MX-C34-05 5%
10)	Sample	3	EC111603	TX111699	Toxaphene MX-A40-10 6.25%
11)	Sample	4	EC111604	OC111699	PEST MX-C38-08 40%
12)	Sample	5	EC111605	OC111699	PEST MX-C38-08 20%
13)	Sample	6	EC111606	OC111699	PEST MX-C38-08 8%
14)	Sample	7	EC111607	OC111699	PEST MX-C38-08 4%
15)	Sample	8	EC111608	OC111699	PEST MX-C38-08 2%
16)	Sample	9	EC111609	OC111699	ICV PEST MX-C76-03 20%
17)	Sample	10	EC111610	OC111699	EX991029-1MB
18)	Sample	11	EC111611	OC111699	EX991029-1LCS
19)	Sample	12	EC111612	OC111699	EX991029-1LCSD
20)	Sample	13	EC111613	OC111699	9910171-5
21)	Sample	14	EC111614	OC111699	9910171-5 5X
22)	Sample	15	EC111615	OC111699	9910171-5 2X
23)	Sample	16	EC111616	OC111699	EX991108-1MB
24)	Sample	17	EC111617	OC111699	EX991108-1LCS
25)	Sample	18	EC111618	OC111699	EX991108-1LCSD
26)	Sample	19	EC111619	OC111699	9911028-1
27)	Sample	99	HEXANE2	OC111699	HEXANE
28)	Sample	20	EC111620	OC111699	PEST MX-C38-08 20% CCV
29)	Sample	21	EC111621	OC111699	EX991109-5MB
30)	Sample	22	EC111622	OC111699	EX991109-5LCS
31)	Sample	23	EC111623	OC111699	EX991109-5LCSD
32)	Sample	24	EC111624	OC111699	9910178-2
33)	Sample	25	EC111625	OC111699	9910178-2MS
34)	Sample	26	EC111626	OC111699	EX991029-1LCSD Rerun of EC111612
35)	Sample	99	HEXANE3	OC111699	HEXANE
36)	Sample	27	EC111627	OC111699	PEST MX-C38-08 20% CCV
37)	Sample	28	EC111628	OC111699	EX991110-5MB
38)	Sample	29	EC111629	OC111699	EX991110-5LCS
39)	Sample	30	EC111630	OC111699	EX991110-5LCSD
40)	Sample	31	EC111631	OC111699	9911025-1 Rerun @ 5X
41)	Sample	32	EC111632	OC111699	9911025-2 Rerun @ 100X
42)	Sample	33	EC111633	OC111699	9911025-3 Rerun @ 100X
43)	Sample	34	EC111634	OC111699	9911025-3MS

Sequence Name: C:\HPCHEM\5\SEQUENCE\111699.S

Line	Type	Vial	DataFile	Method	Sample Name
44)	Sample	35	EC111635	OC111699	9911025-3MSD
45)	Sample	99	HEXANE4	OC111699	HEXANE
46)	Sample	36	EC111636	OC111699	PEST MX-C38-08 20% CCV
47)					

Sequence Name: C:\HPCHEM\5\SEQUENCE\111799.S
Comment:
Operator: MBROWN
Data Path: C:\HPCHEM\5\DATA\991117\
Pre-Seq Cmd:
Post-Seq Cmd:

PT991117-4

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1)	DeleteGC				
2)	MaskName -	-----B--			
3)	GCMethod -	4OC008			
4)	Sample	100	PRIME	OC111699	PRIME
5)	Sample	100	PRIME	OC111699	PRIME
6)	Sample	100	PRIME	OC111699	PRIME
7)	Sample	99	HEXANE1	OC111699	HEXANE
8)	Sample	1	EC111701	OC111699	PEM MX-A20-19 20%
9)	Sample	2	EC111702	OC111699	PEST MX-C38-08 20% CCV
10)	Sample	3	EC111703	OC111699	9911025-1 5X
11)	Sample	4	EC111704	OC111699	9911025-1 10X
12)	Sample	5	EC111705	OC111699	9911025-2 100X
13)	Sample	6	EC111706	OC111699	9911025-2 200X
14)	Sample	7	EC111707	OC111699	9911025-3 100X
15)	Sample	8	EC111708	OC111699	9911025-3 200X
16)	Sample	9	EC111709	OC111699	9911025-3 500X
17)	Sample	99	HEXANE2	OC111699	HEXANE
18)	Sample	10	EC111710	OC111699	PEST MX-C38-08 20% CCV
19)					

Calibration Raw Data

Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111601.D Vial: 1
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111601.D\EC111B01.D
Acq On : 16 Nov 99 09:45 AM Operator: MBROWN
Sample : PEM MX-A20-19 20% Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 16 14:26 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
		System Monitoring Compounds							
1)	S	Tetrachloro-m-xylene	8.06	8.06	1228170	964738	42.13	41.83	
					Recovery	=	84.26%	83.66%	
22)	S	Decachlorobiphenyl	19.65	20.46	997140	806677	41.00	41.18	
					Recovery	=	82.00%	82.36%	
		Target Compounds							
2)	T	alpha-BHC	9.21	9.32	637453	525001	18.57	18.56	
3)	MT	gamma-BHC (Lindane)	9.83	10.00	625825	516291	19.38	19.31	
4)	MT	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
5)	MT	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
6)	T	beta-BHC	10.00	10.15	346005	290147	21.05	20.20	
7)	T	delta-BHC	10.38	0.00	18366	0	1.46	N.D.	#
8)	T	Heptachlor Epoxide	0.00	0.00	0	0	N.D.	N.D.	
9)	T	Endosulfan I	13.33	13.43	52900	61530	1.88	2.41	#
10)	T	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	T	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
12)	T	4,4'-DDE	13.18	13.72	132525	96461	5.65	4.46	
13)	MT	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	MT	Endrin	14.64	15.11	2428474	2006105	109.62	107.90	
15)	T	4,4'-DDD	14.82	15.48	52495	46453	3.35	2.77	
16)	T	Endosulfan II	0.00	15.74	0	44008	N.D.	1.30	#
17)	MT	4,4'-DDT	15.69	16.34	4928117	3646948	190.32	189.98	
18)	T	Endrin Aldehyde	16.47	16.62	118945	108314	1.32	2.74	#
19)	T	Methoxychlor	16.88	17.77	5353515	4277316	515.28	509.97	
20)	T	Endosulfan Sulfate	0.00	0.00	0	0	N.D.	N.D.	
21)	T	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.	
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.	
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.	
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.	
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.	
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.	
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.	
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.	
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.	

11/16/99

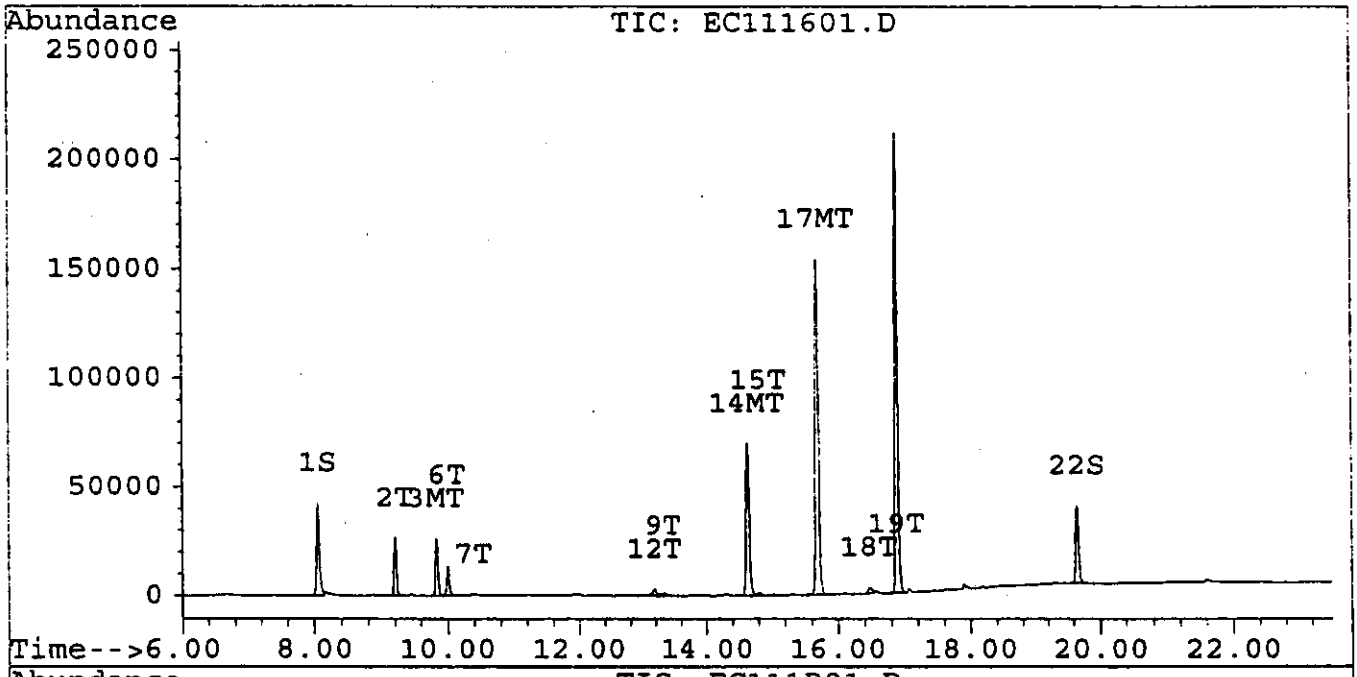
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

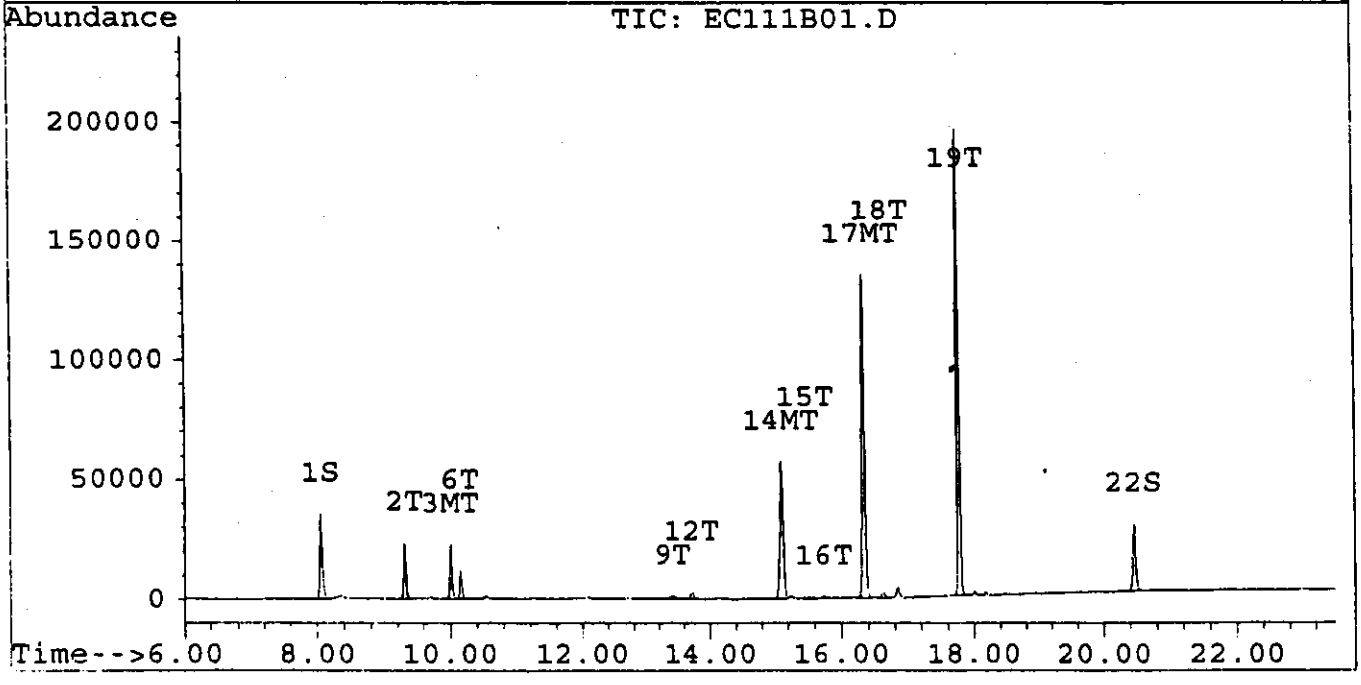
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111601.D Vial: 1
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111601.D\EC111B01.D
Acq On : 16 Nov 99 09:45 AM Operator: MBROWN
Sample : PEM MX-A20-19 20% Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 16 14:26 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um





Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111602.D Vial: 2
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111602.D\EC111B02.D
Acq On : 16 Nov 99 10:15 AM Operator: MBROWN
Sample : Chlordane MX-C34-05 5% Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 16 13:32 1999

Method : C:\HPCHEM\5\METHODS\TC111699.M
Title : Technical Chlordane
Last Update : Tue Nov 16 13:20:59 1999
Response via : Single Level Calibration

Volume Inj. : 1 ul
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30 x 0.32 x 0.50u Signal #2 Info : 30 x 0.32 x 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	s Tetrachloro-m-xylene	8.06	8.06	329491	238047	10.00	10.00
				Recovery	=	20.00%	20.00%
10)	s Decachlorobiphenyl	19.65	20.46	198905	165257	10.00	10.00
				Recovery	=	20.00%	20.00%
	Target Compounds						
2)	ML1 Chlordane	10.56	10.55	85178	95869	100.00	100.00
3)	ML1 Chlordane {2}	10.71	10.81	168399	160112	100.00	100.00
4)	ML1 Chlordane {3}	11.51	11.68	151093	121426	100.00	100.00
5)	ML1 Chlordane {4}	12.31	12.45	57594	58547	100.00	100.00
6)	ML1 Chlordane {5}	12.72	12.95	321990	245377	100.00	100.00
7)	ML1 Chlordane {6}	12.98	13.17	252598	234221	100.00	100.00
8)	ML1 Chlordane {7}	13.01	13.30	233039	221113	100.00	100.00
9)	ML1 Chlordane {8}	15.12	15.89	112784	91907	100.00	100.00
Total Chlordane				1382674	1228571	800.00	800.00

11/16/99
MB

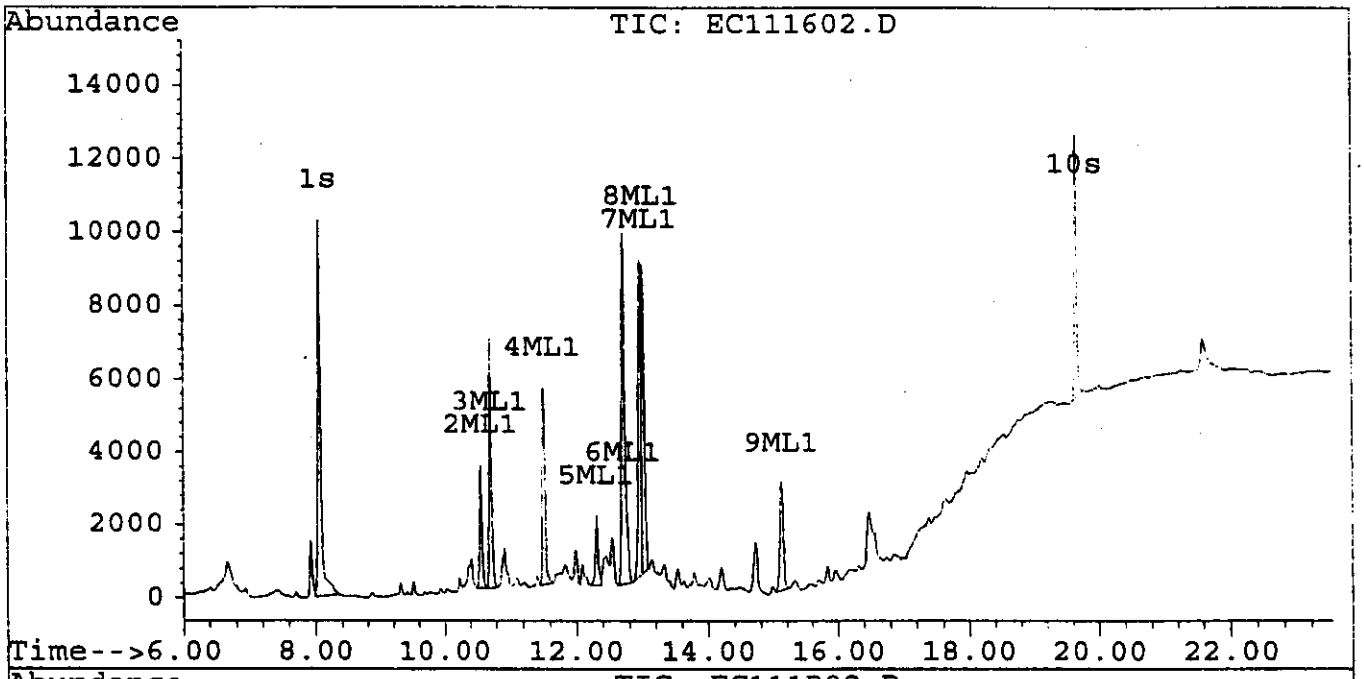
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

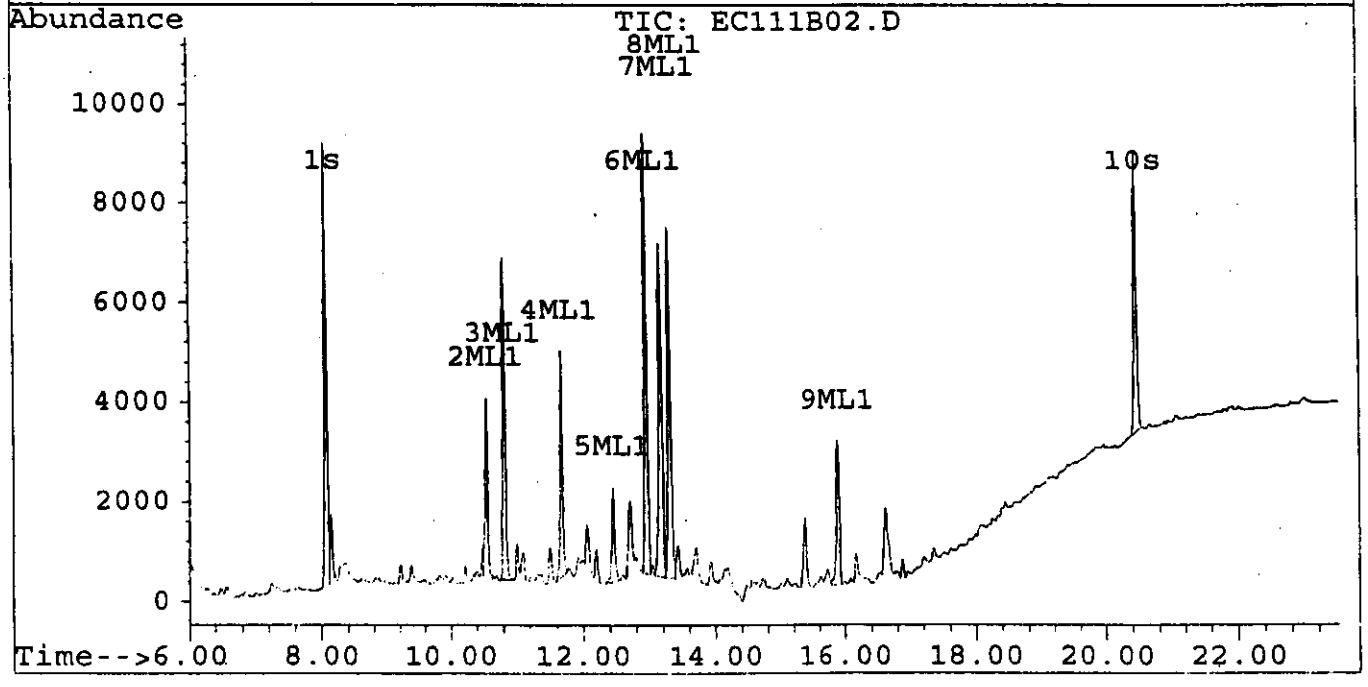
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111602.D Vial: 2
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111602.D\EC111B02.D
Acq On : 16 Nov 99 10:15 AM Operator: MBROWN
Sample : Chlordane MX-C34-05 5% Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 16 13:32 1999

Method : C:\HPCHEM\5\METHODS\TC111699.M
Title : Technical Chlordane
Last Update : Tue Nov 16 13:20:59 1999
Response via : Single Level Calibration

Volume Inj. : 1 ul
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30 x 0.32 x 0.50u Signal #2 Info : 30 x 0.32 x 0.25um





Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111603.D Vial: 3
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111603.D\EC111B03.D
Acq On : 16 Nov 99 10:45 AM Operator: MBROWN
Sample : Toxaphene MX-A40-10 6.25% Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 16 13:32 1999

Method : C:\HPCHEM\5\METHODS\TX111699.M
Title : Toxaphene
Last Update : Tue Nov 16 13:32:02 1999
Response via : Single Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .25 Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	S Tetrachloro-m-xylene	8.06	8.07	329468	255122	10.00	10.00
				Recovery	=	20.00%	20.00%
6)	S Decachlorobiphenyl	19.65	20.46	242951	210612	10.00	10.00
				Recovery	=	20.00%	20.00%
	Target Compounds						
2)	L1 Toxaphene	15.68	15.99	243723	395249	500.00	500.00
3)	L1 Toxaphene {2}	16.25	16.63	428034	336989	500.00	500.00
4)	L1 Toxaphene {3}	17.19	17.66	504469	368627	500.00	500.00
5)	L1 Toxaphene {4}	17.86	18.34	318793	173572	500.00	500.00
Total	Toxaphene			1495018	1274438	2000.00	2000.00

11/16/99 MB

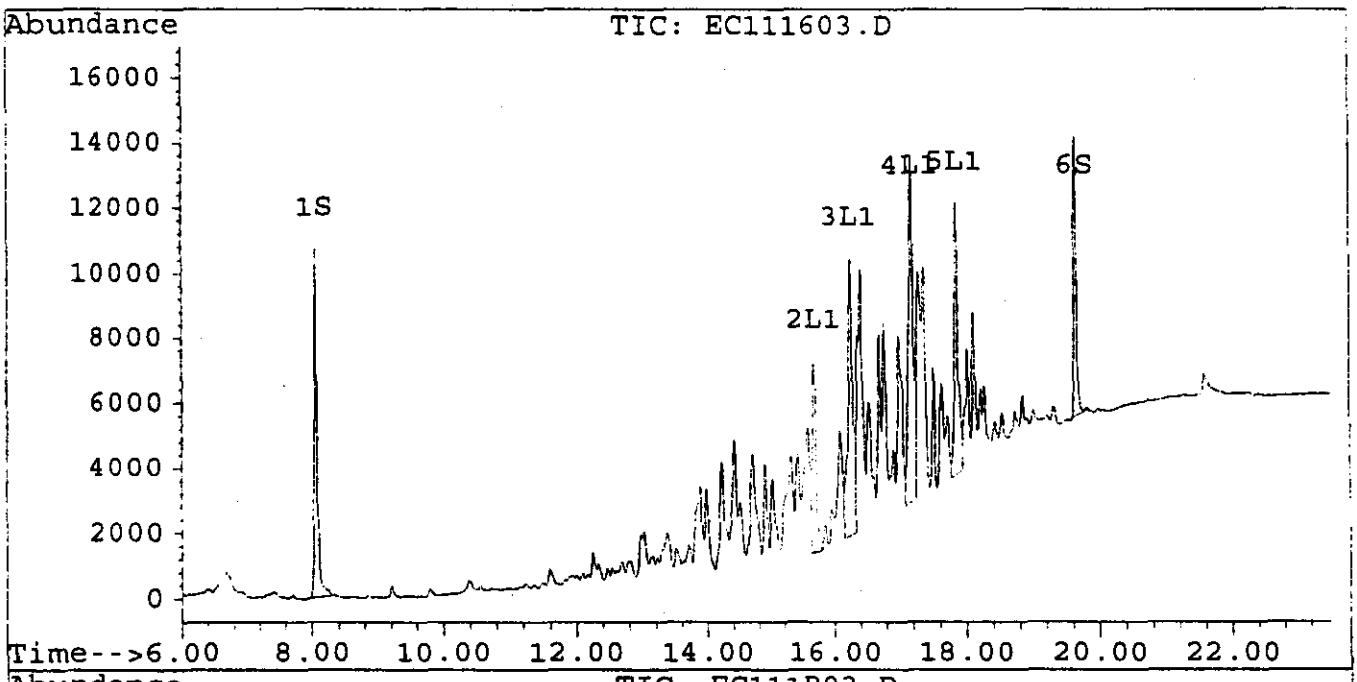
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

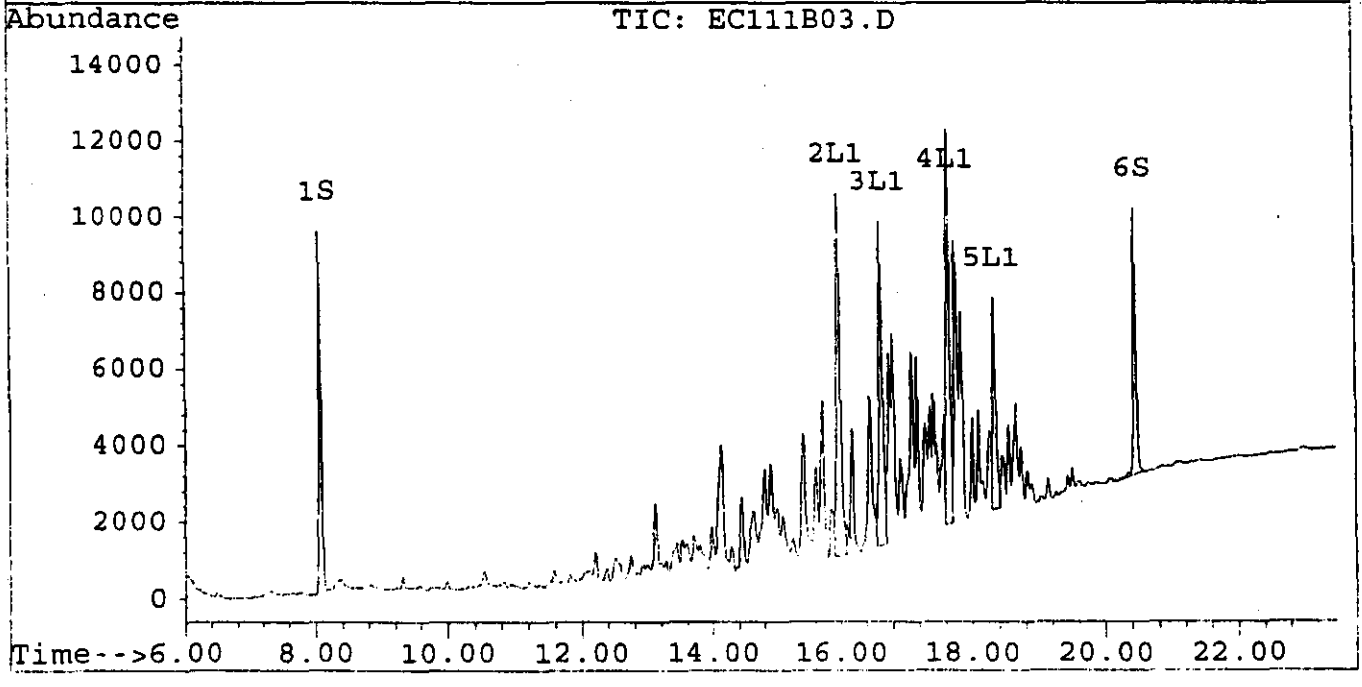
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111603.D Vial: 3
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111603.D\EC111B03.D
Acq On : 16 Nov 99 10:45 AM Operator: MBROWN
Sample : Toxaphene MX-A40-10 6.25% Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 16 13:32 1999

Method : C:\HPCHEM\5\METHODS\TX111699.M
Title : Toxaphene
Last Update : Tue Nov 16 13:32:02 1999
Response via : Single Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .25 Signal #2 Info : 30m x .32mm x .25um





000042

Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111604.D Vial: 4
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111604.D\EC111B04.D
Acq On : 16 Nov 99 11:16 AM Operator: MBROWN
Sample : PEST MX-C38-08 40% Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 16 14:29 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylene	8.06	8.06	2845308	2211143	99.41	98.97
					Recovery	=	198.82%	197.94%
22)	S	Decachlorobiphenyl	19.65	20.45	4221489	3303175	197.69	197.23
					Recovery	=	395.38%	394.46%
		Target Compounds						
2)	T	alpha-BHC	9.21	9.32	1797744	1445394	50.31	50.07
3)	MT	gamma-BHC (Lindane)	9.83	10.00	1661544	1340204	50.16	49.94
4)	MT	Heptachlor	10.71	10.81	1586989	1336676	49.90	49.72
5)	MT	Aldrin	11.26	11.40	1394903	1136077	50.18	50.07
6)	T	beta-BHC	10.00	10.15	794322	659660	48.33	45.92
7)	T	delta-BHC	10.34	10.69	1249384	986996	50.37	50.13
8)	T	Heptachlor Epoxide	12.45	12.53	1437842	1212357	50.04	49.84
9)	T	Endosulfan I	13.36	13.45	1432767	1233599	50.08	49.72
10)	T	gamma-Chlordane	12.72	12.95	1459797	1212801	49.99	49.78
11)	T	alpha-Chlordane	13.02	13.30	1465801	1231068	49.92	49.69
12)	T	4,4'-DDE	13.18	13.72	2826722	2359755	100.14	99.80
13)	MT	Dieldrin	13.97	14.18	2988639	2504034	100.12	99.81
14)	MT	Endrin	14.64	15.10	2219492	1861748	100.29	100.18
15)	T	4,4'-DDD	14.82	15.47	2371537	1987925	100.19	99.92
16)	T	Endosulfan II	15.35	15.76	2635778	2145095	99.89	99.56
17)	MT	4,4'-DDT	15.69	16.34	2597314	1914297	100.17	99.71
18)	T	Endrin Aldehyde	16.47	16.61	2146034	1757686	98.83	99.12
19)	T	Methoxychlor	16.88	17.77	5164551	4160414	496.68	495.60
20)	T	Endosulfan Sulfate	17.39	17.20	1753704	1491844	99.86	99.66
21)	T	Endrin Ketone	17.90	18.17	2379592	1810916	99.45	99.35
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.

11/16/99 MB

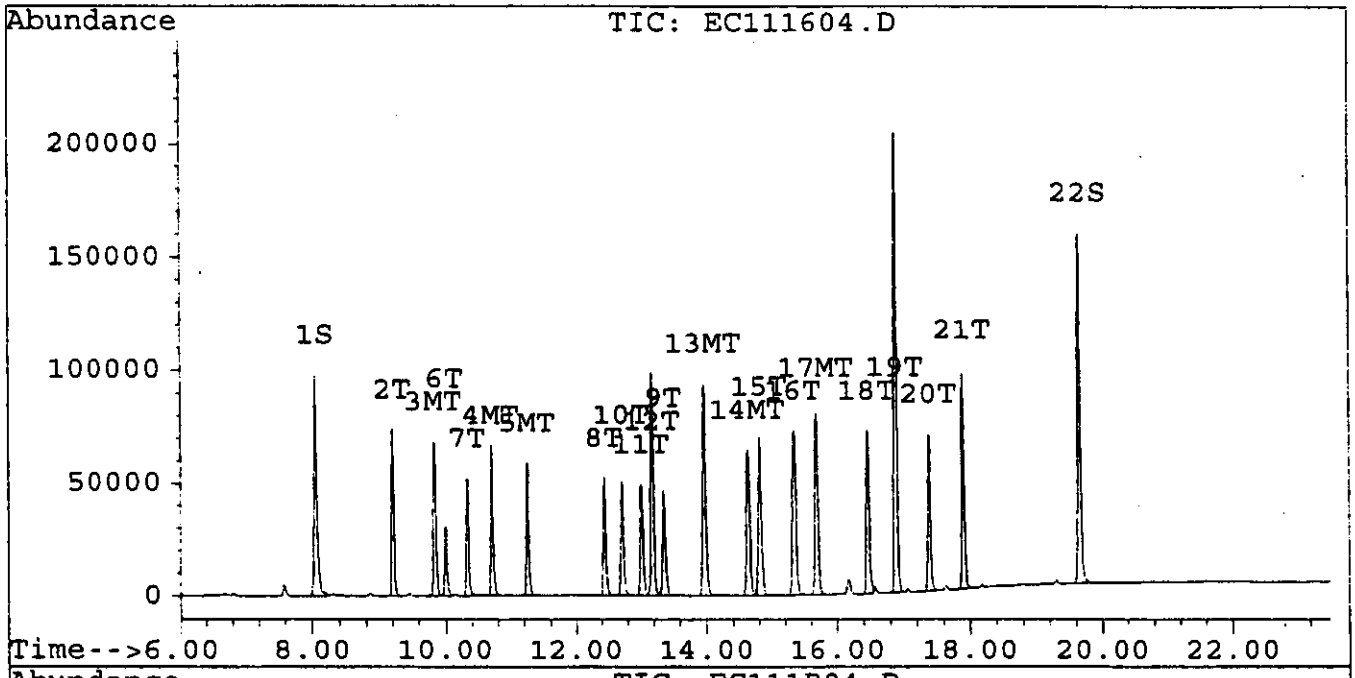
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

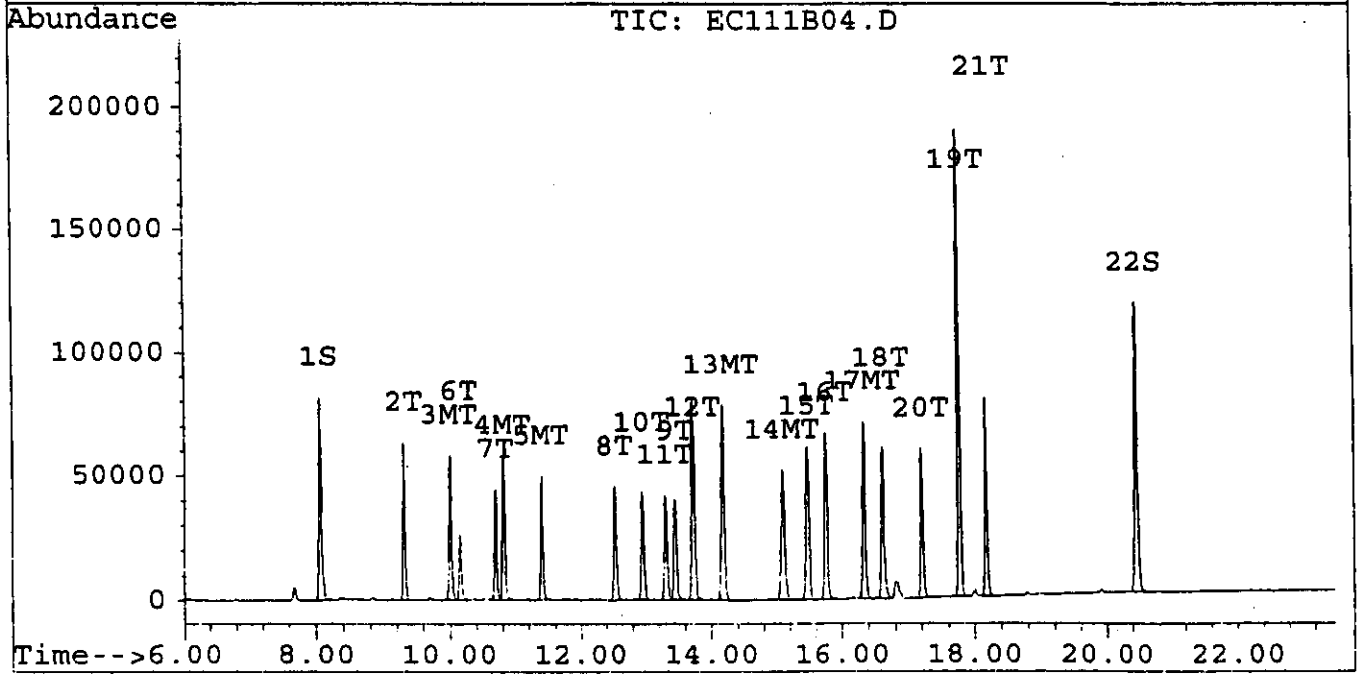
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111604.D Vial: 4
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111604.D\EC111B04.D
Acq On : 16 Nov 99 11:16 AM Operator: MBROWN
Sample : PEST MX-C38-08 40% Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 16 14:29 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um





Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111605.D Vial: 5
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111605.D\EC111B05.D
Acq On : 16 Nov 99 11:46 AM Operator: MBROWN
Sample : PEST MX-C38-08 20% Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 16 14:30 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylene	8.06	8.06	1480782	1185238	51.08	51.94
					Recovery	=	102.16%	103.88%
22)	S	Decachlorobiphenyl	19.65	20.46	2296228	1826694	104.13	104.94
					Recovery	=	208.26%	209.88%
		Target Compounds						
2)	T	alpha-BHC	9.21	9.31	852788	710666	24.46	24.92
3)	MT	gamma-BHC (Lindane)	9.83	10.00	806536	673444	24.75	25.15
4)	MT	Heptachlor	10.71	10.81	804816	695762	25.20	25.52
5)	MT	Aldrin	11.26	11.40	676267	560719	24.67	24.86
6)	T	beta-BHC	10.00	10.15	405659	349095	24.68	24.30
7)	T	delta-BHC	10.34	10.69	593246	482764	24.30	24.75
8)	T	Heptachlor Epoxide	12.45	12.53	715332	619643	24.93	25.27
9)	T	Endosulfan I	13.36	13.45	710173	637740	24.84	25.67
10)	T	gamma-Chlordane	12.72	12.95	734059	624450	24.98	25.39
11)	T	alpha-Chlordane	13.02	13.30	744749	640171	25.12	25.59
12)	T	4,4'-DDE	13.18	13.72	1392438	1188952	49.84	50.48
13)	MT	Dieldrin	13.97	14.18	1474623	1272129	49.88	50.45
14)	MT	Endrin	14.64	15.10	1082262	919663	49.51	49.75
15)	T	4,4'-DDD	14.82	15.47	1163605	995350	49.75	50.25
16)	T	Endosulfan II	15.35	15.76	1320964	1103913	50.26	50.87
17)	MT	4,4'-DDT	15.69	16.33	1298216	972134	49.93	50.62
18)	T	Endrin Aldehyde	16.47	16.61	1178746	944559	52.30	51.61
19)	T	Methoxychlor	16.88	17.77	2715056	2225115	255.63	257.68
20)	T	Endosulfan Sulfate	17.39	17.20	882506	766910	50.27	50.61
21)	T	Endrin Ketone	17.90	18.17	1229789	940730	51.07	51.22
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.

11/16/99

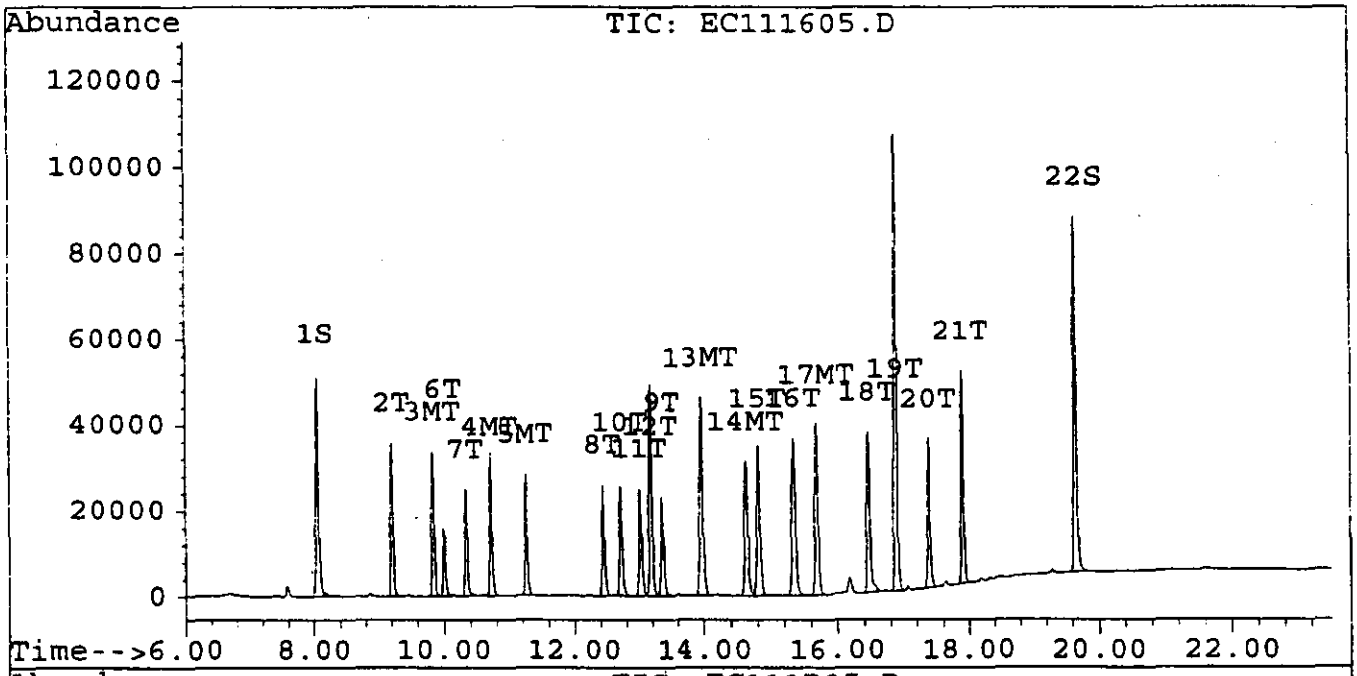
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

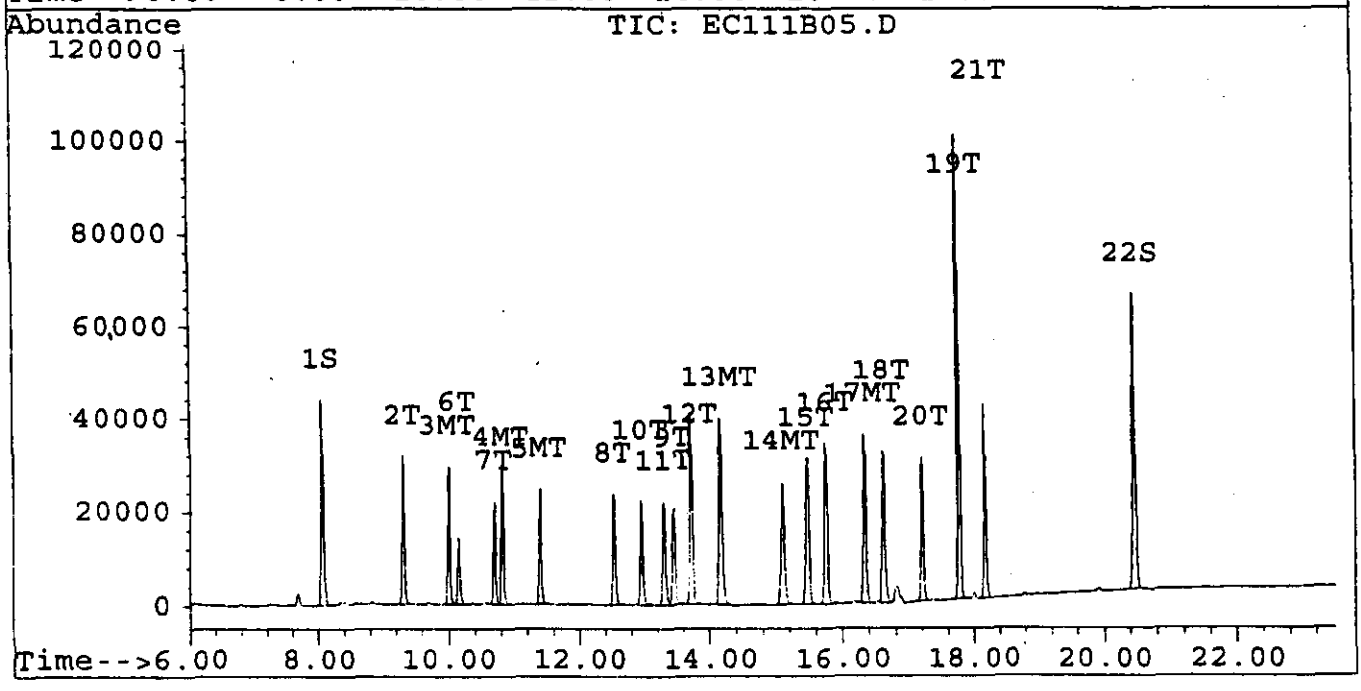
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111605.D Vial: 5
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111605.D\EC111B05.D
Acq On : 16 Nov 99 11:46 AM Operator: MBROWN
Sample : PEST MX-C38-08 20% Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 16 14:30 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um





Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111606.D Vial: 6
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111606.D\EC111B06.D
Acq On : 16 Nov 99 12:17 PM Operator: MBROWN
Sample : PEST MX-C38-08 8% Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 16 14:30 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylene	8.06	8.06	620126	507392	20.59	20.86
					Recovery	=	41.18%	41.72%
22)	S	Decachlorobiphenyl	19.65	20.45	1028672	837246	42.53	43.09
					Recovery	=	85.06%	86.18%
		Target Compounds						
2)	T	alpha-BHC	9.21	9.31	309446	268926	9.60	9.80
3)	MT	gamma-BHC (Lindane)	9.83	10.00	301933	265803	9.76	10.00
4)	MT	Heptachlor	10.71	10.81	326687	292525	10.10	10.29
5)	MT	Aldrin	11.25	11.40	257478	221124	9.81	9.98
6)	T	beta-BHC	10.00	10.15	167510	146815	10.19	10.22
7)	T	delta-BHC	10.33	10.69	226602	188291	9.73	9.92
8)	T	Heptachlor Epoxide	12.45	12.53	285283	256143	9.99	10.19
9)	T	Endosulfan I	13.36	13.45	284039	245154	9.95	9.82
10)	T	gamma-Chlordane	12.72	12.95	300910	258768	10.05	10.23
11)	T	alpha-Chlordane	13.02	13.30	308243	263808	10.10	10.24
12)	T	4,4'-DDE	13.18	13.72	530890	462486	19.62	19.88
13)	MT	Dieldrin	13.97	14.18	562312	510911	19.61	19.95
14)	MT	Endrin	14.64	15.10	413582	357072	19.65	19.63
15)	T	4,4'-DDD	14.82	15.47	441793	387832	19.61	19.85
16)	T	Endosulfan II	15.35	15.76	519509	449441	20.00	20.26
17)	MT	4,4'-DDT	15.69	16.33	508434	383481	19.38	19.96
18)	T	Endrin Aldehyde	16.47	16.61	523837	418478	20.79	20.87
19)	T	Methoxychlor	16.88	17.77	1180837	986590	104.65	105.42
20)	T	Endosulfan Sulfate	17.39	17.20	353078	320179	20.13	20.39
21)	T	Endrin Ketone	17.90	18.17	501820	386241	20.43	20.56
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.

11/16/99 MB

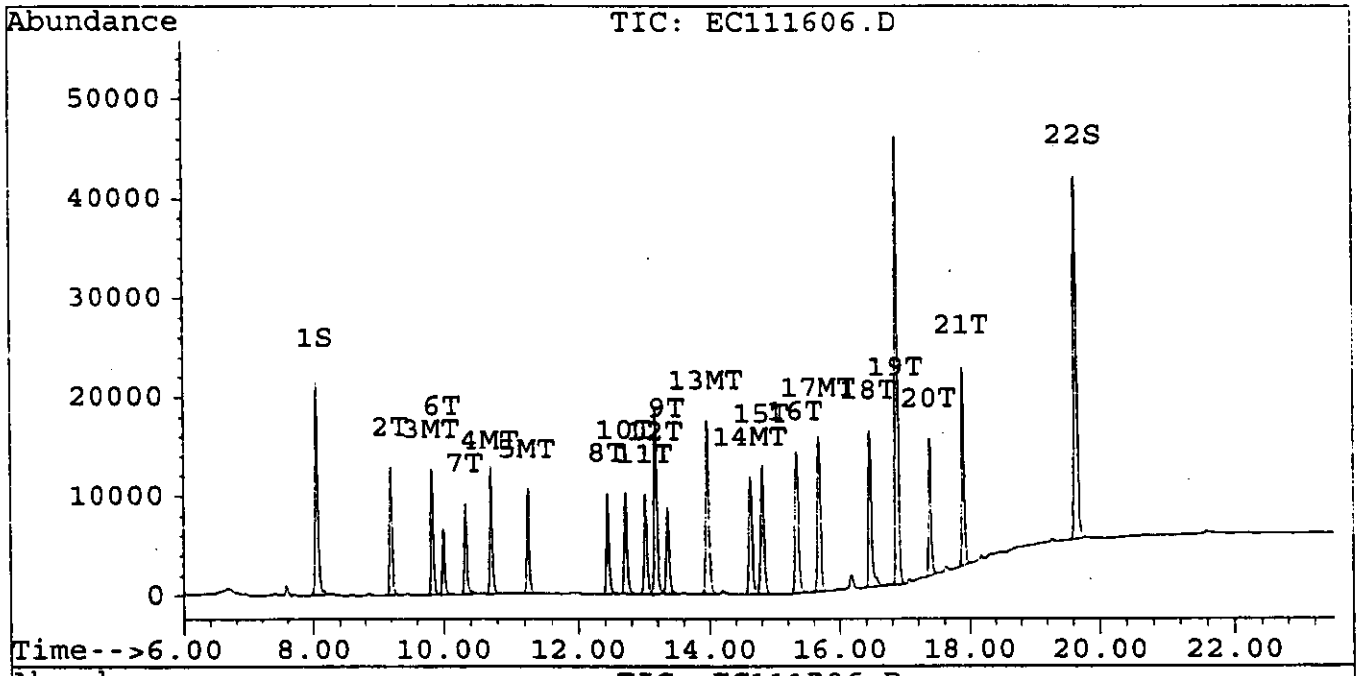
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

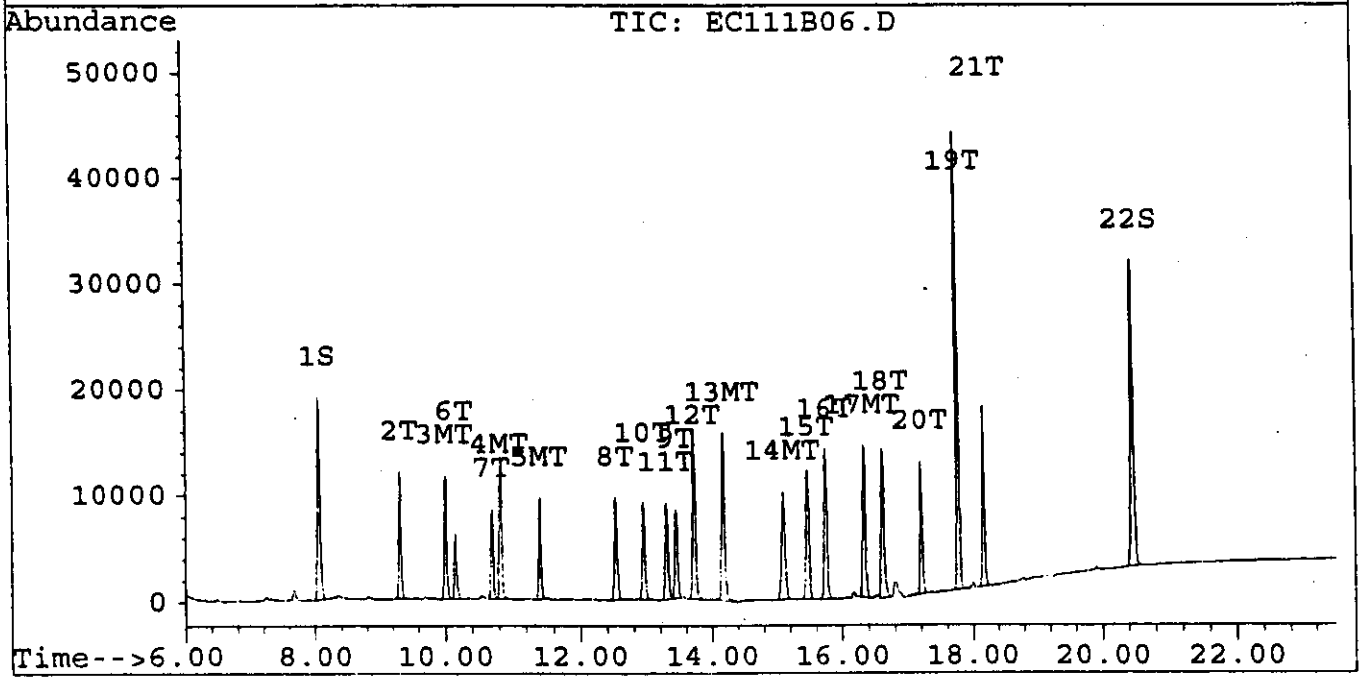
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111606.D Vial: 6
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111606.D\EC111B06.D
Acq On : 16 Nov 99 12:17 PM Operator: MBROWN
Sample : PEST MX-C38-08 8% Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 16 14:30 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um





Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111607.D Vial: 7
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111607.D\EC111B07.D
Acq On : 16 Nov 99 12:47 PM Operator: MBROWN
Sample : PEST MX-C38-08 4% Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 16 14:30 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylene	8.05	8.06	312565	259991	9.69	9.52
					Recovery	=	19.38%	19.04%
22)	S	Decachlorobiphenyl	19.65	20.45	545063	449501	19.03	18.86
					Recovery	=	38.06%	37.72%
		Target Compounds						
2)	T	alpha-BHC	9.21	9.31	143312	127919	5.06	4.97
3)	MT	gamma-BHC (Lindane)	9.83	10.00	141212	128054	4.99	4.88
4)	MT	Heptachlor	10.71	10.81	162081	147420	4.90	4.81
5)	MT	Aldrin	11.25	11.39	122866	106831	5.03	4.97
6)	T	beta-BHC	10.00	10.15	82765	74448	5.04	5.18
7)	T	delta-BHC	10.33	10.69	110731	91393	5.13	5.04
8)	T	Heptachlor Epoxide	12.45	12.53	140966	130220	4.97	4.97
9)	T	Endosulfan I	13.36	13.45	143984	123457	5.06	4.91
10)	T	gamma-Chlordane	12.72	12.95	159936	129922	5.19	4.89
11)	T	alpha-Chlordane	13.02	13.30	163480	132562	5.12	4.88
12)	T	4,4'-DDE	13.18	13.72	256410	223508	10.00	9.81
13)	MT	Dieldrin	13.97	14.17	270140	256152	9.92	9.74
14)	MT	Endrin	14.64	15.10	198110	177592	10.03	10.02
15)	T	4,4'-DDD	14.82	15.47	209517	186388	9.91	9.77
16)	T	Endosulfan II	15.35	15.75	247531	224023	9.74	9.72
17)	MT	4,4'-DDT	15.69	16.33	244763	192619	9.19	10.01
18)	T	Endrin Aldehyde	16.46	16.61	283827	227163	9.25	9.69
19)	T	Methoxychlor	16.88	17.77	609801	521580	48.45	48.25
20)	T	Endosulfan Sulfate	17.39	17.20	172694	163585	9.86	9.79
21)	T	Endrin Ketone	17.90	18.17	245324	188217	9.64	9.61
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.

11/16/99

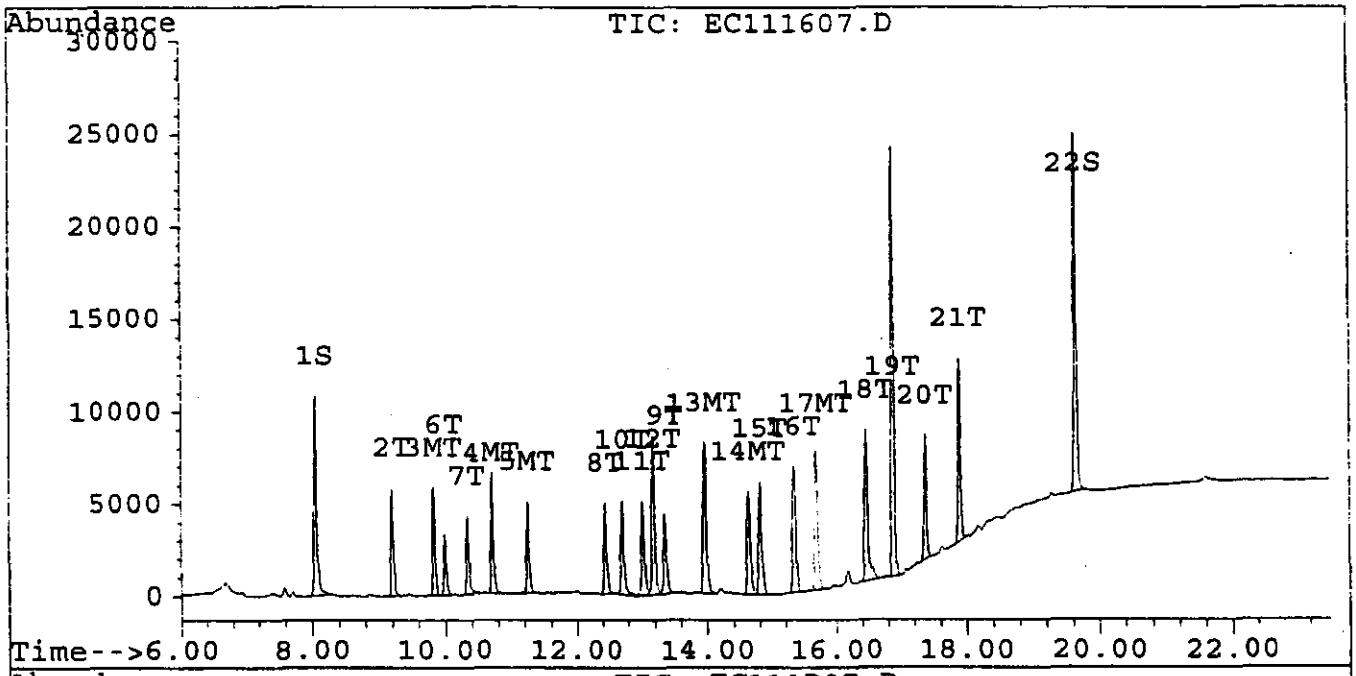
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

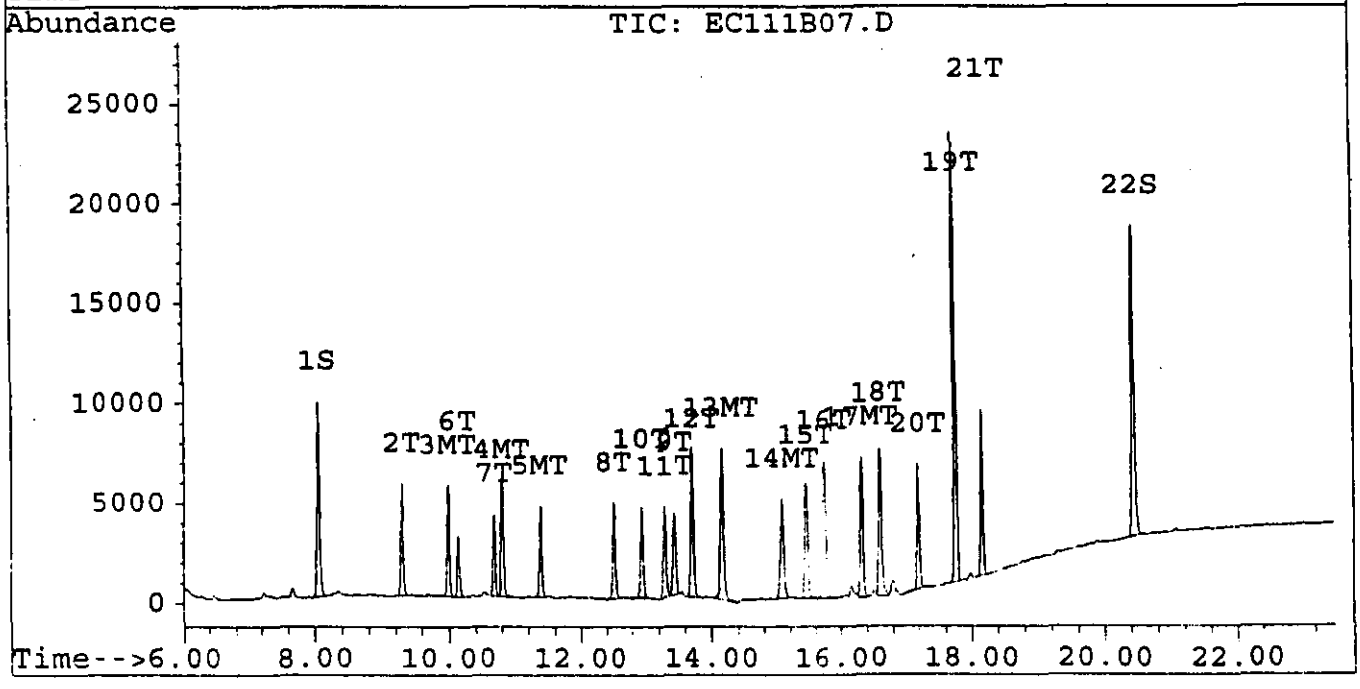
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111607.D Vial: 7
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111607.D\EC111B07.D
Acq On : 16 Nov 99 12:47 PM Operator: MBROWN
Sample : PEST MX-C38-08 4% Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 16 14:30 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um





Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111608.D Vial: 8
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111608.D\EC111B08.D
Acq On : 16 Nov 99 01:18 PM Operator: MBROWN
Sample : PEST MX-C38-08 2% Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 16 14:31 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
		System Monitoring Compounds							
1)	S	Tetrachloro-m-xylene	8.05	8.06	158504	133298	4.23	3.71	
					Recovery	=	8.46%	7.42%	
22)	S	Decachlorobiphenyl	19.65	20.45	289355	241805	6.61	5.88	
					Recovery	=	13.22%	11.76%	
		Target Compounds							
2)	T	alpha-BHC	9.20	9.31	70557	62843	3.07	2.74	
3)	MT	gamma-BHC (Lindane)	9.83	10.00	69149	65112	2.84	2.54	
4)	MT	Heptachlor	10.71	10.81	82993	77191	2.40	2.16	
5)	MT	Aldrin	11.25	11.39	60036	53254	2.80	2.62	
6)	T	beta-BHC	10.00	10.15	41884	37745	2.55	2.63	
7)	T	delta-BHC	10.33	10.69	56274	44073	2.97	2.66	
8)	T	Heptachlor Epoxide	12.44	12.53	72055	63878	2.58	2.22	
9)	T	Endosulfan I	13.36	13.44	72561	60694	2.57	2.38	
10)	T	gamma-Chlordane	12.72	12.95	75804	65063	2.29	2.20	
11)	T	alpha-Chlordane	13.02	13.30	79974	64433	2.24	2.10	
12)	T	4,4'-DDE	13.18	13.72	125602	109891	5.41	5.03	
13)	MT	Dieldrin	13.97	14.17	136118	139009	5.47	5.05	
14)	MT	Endrin	14.64	15.10	97388	91563	5.53	5.42	
15)	T	4,4'-DDD	14.82	15.47	105089	95087	5.55	5.21	
16)	T	Endosulfan II	15.34	15.75	124991	114214	5.11	4.59	
17)	MT	4,4'-DDT	15.67	16.33	170761	90649	6.33	4.70	#
18)	T	Endrin Aldehyde	16.46	16.61	171385	125120	3.84	3.72	
19)	T	Methoxychlor	16.88	17.77	316509	275905	19.59	18.05	
20)	T	Endosulfan Sulfate	17.39	17.20	85249	86063	4.88	4.55	
21)	T	Endrin Ketone	17.90	18.17	121085	91560	4.41	4.26	
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.	
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.	
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.	
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.	
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.	
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.	
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.	
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.	
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.	

11/16/99 MB

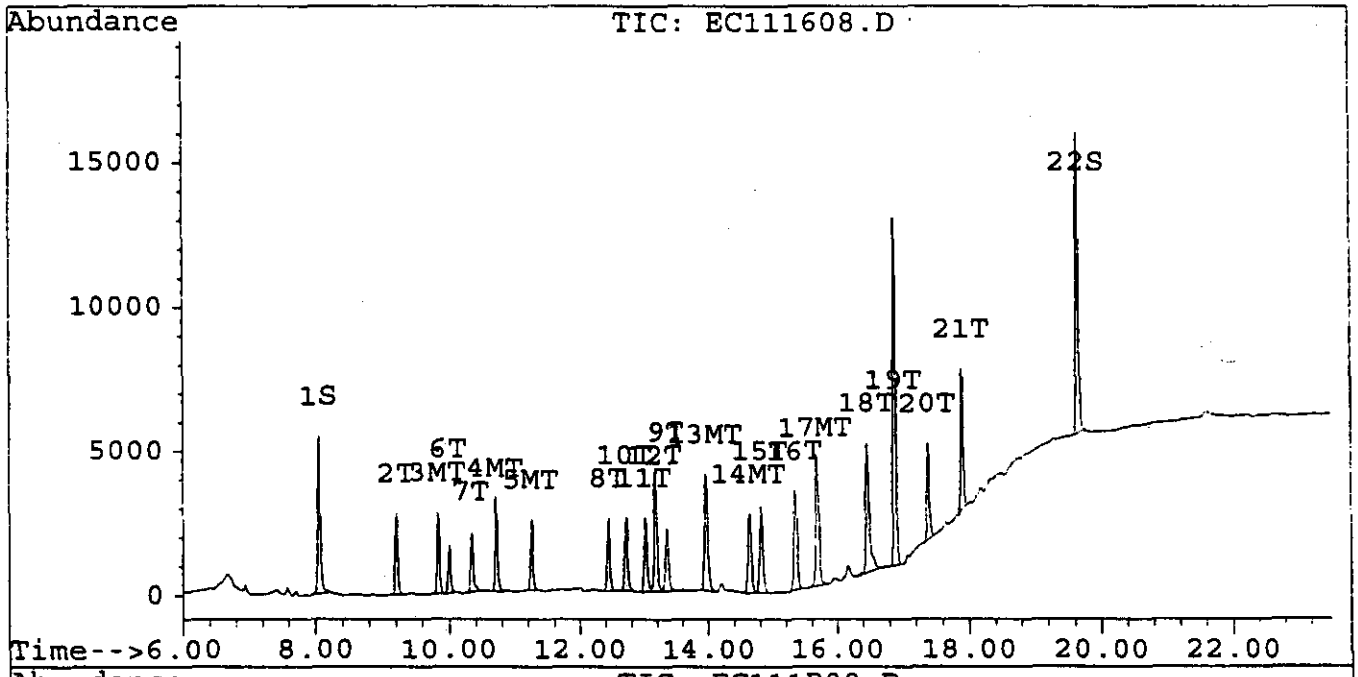
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

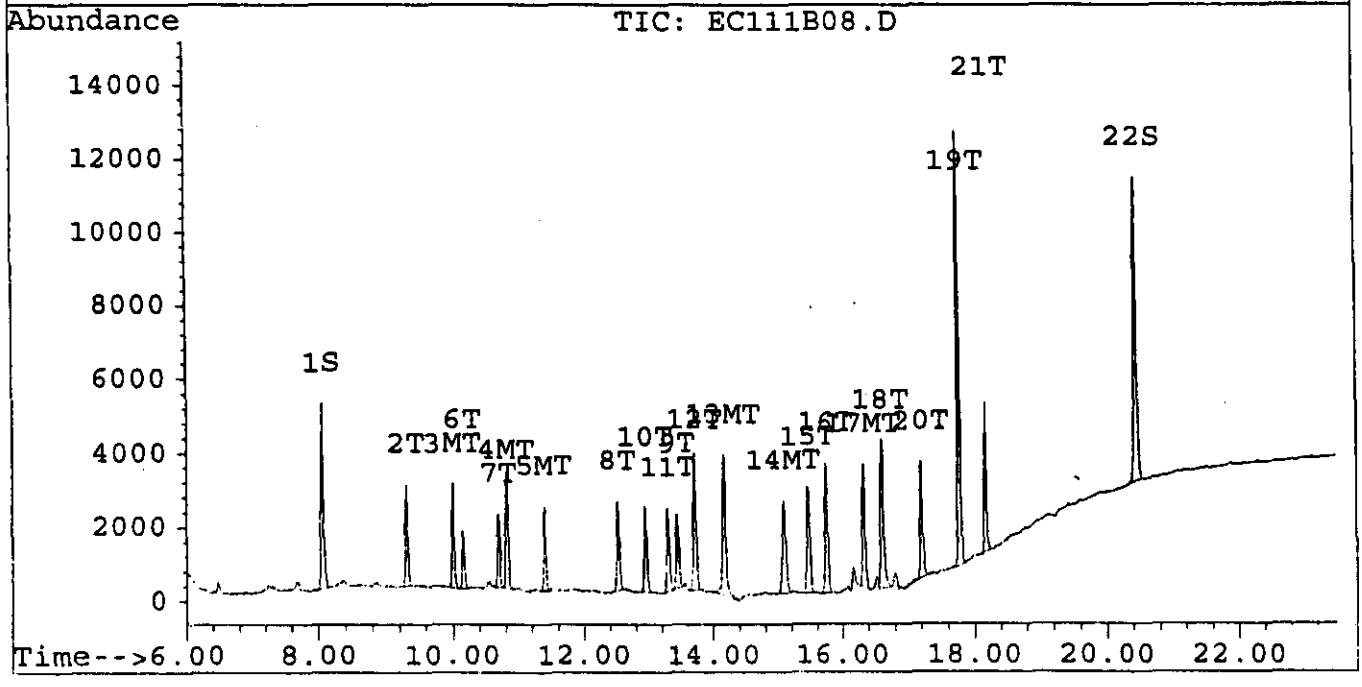
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111608.D Vial: 8
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111608.D\EC111B08.D
Acq On : 16 Nov 99 01:18 PM Operator: MBROWN
Sample : PEST MX-C38-08 2% Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 16 14:31 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um





Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111609.D Vial: 9
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111609.D\EC111B09.D
Acq On : 16 Nov 99 01:48 PM Operator: MBROWN
Sample : ICV PEST MX-C76-03 20% Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 16 14:31 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylene	8.05	8.06	1496718	1209174	51.64	53.04
					Recovery	=	103.28%	106.08%
22)	S	Decachlorobiphenyl	19.64	20.45	2290410	1824017	103.85	104.77
					Recovery	=	207.70%	209.54%
		Target Compounds						
2)	T	alpha-BHC	9.21	9.31	832728	704310	23.92	24.70
3)	MT	gamma-BHC (Lindane)	9.83	10.00	793511	670167	24.37	25.03
4)	MT	Heptachlor	10.71	10.81	800823	692771	25.07	25.40
5)	MT	Aldrin	11.25	11.39	721071	607881	26.26	26.93
6)	T	beta-BHC	10.00	10.15	455384	394159	27.71	27.44
7)	T	delta-BHC	10.33	10.69	669647	553989	27.34	28.33
8)	T	Heptachlor Epoxide	12.45	12.53	741014	664015	25.82	27.11
9)	T	Endosulfan I	13.36	13.44	678013	613962	23.72	24.71
10)	T	gamma-Chlordane	12.72	12.95	768677	654641	26.17	26.64
11)	T	alpha-Chlordane	13.02	13.30	775846	664592	26.19	26.58
12)	T	4,4'-DDE	13.18	13.72	1440890	1231871	51.54	52.29
13)	MT	Dieldrin	13.97	14.17	1441283	1260785	48.78	50.00
14)	MT	Endrin	14.64	15.10	1045015	891460	47.84	48.24
15)	T	4,4'-DDD	14.82	15.47	1129158	971758	48.31	49.07
16)	T	Endosulfan II	15.34	15.75	1355143	1136819	51.55	52.41
17)	MT	4,4'-DDT	15.69	16.33	1216468	957552	46.77	49.86
18)	T	Endrin Aldehyde	16.46	16.61	1143159	927767	50.58	50.62
19)	T	Methoxychlor	16.88	17.77	2868990	2338863	270.78	271.66
20)	T	Endosulfan Sulfate	17.38	17.20	937755	813275	53.41	53.75
21)	T	Endrin Ketone	17.90	18.17	1300673	997313	54.05	54.35
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.

11/16/99 MB

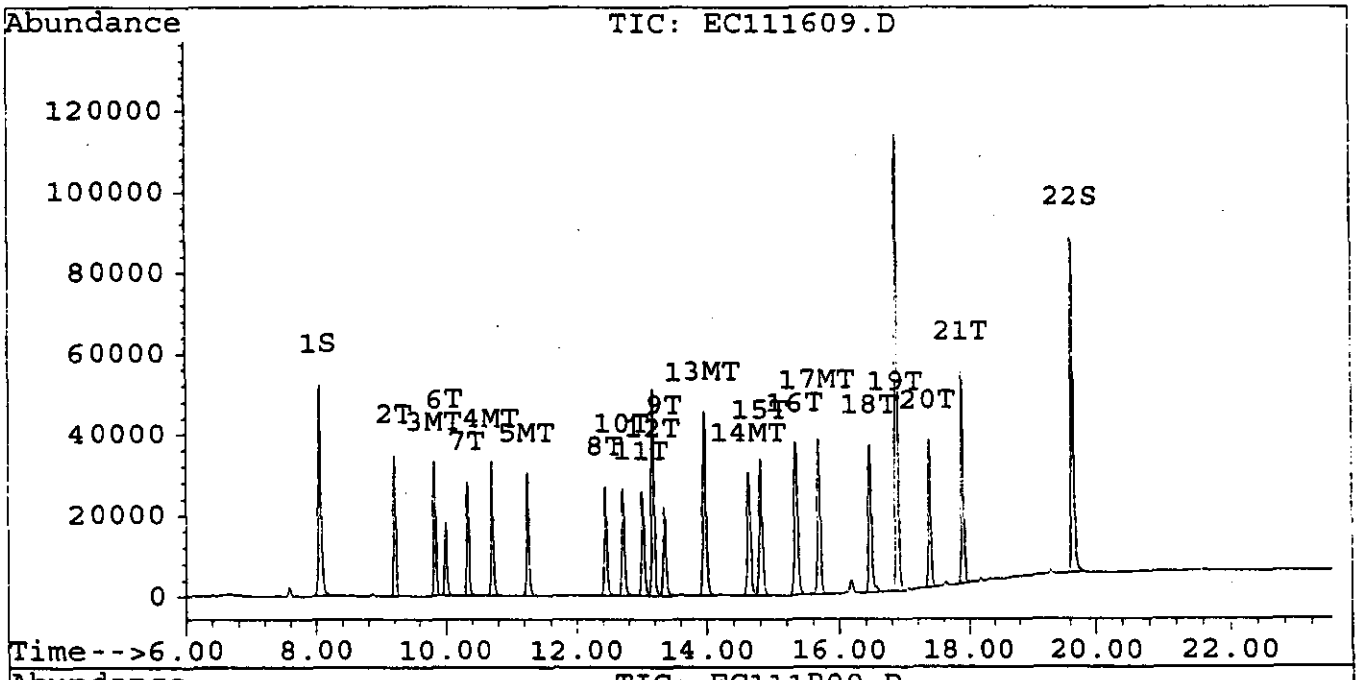
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

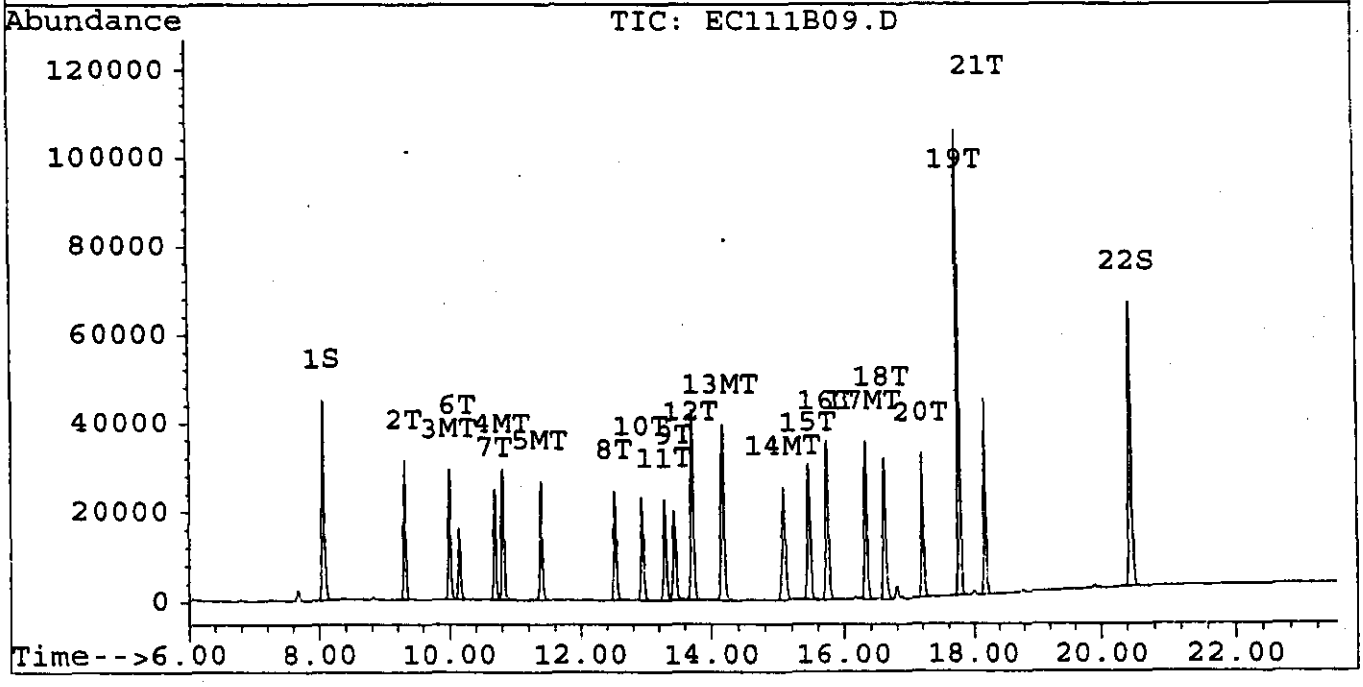
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111609.D Vial: 9
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111609.D\EC111B09.D
Acq On : 16 Nov 99 01:48 PM Operator: MBROWN
Sample : ICV PEST MX-C76-03 20% Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 16 14:31 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um





Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111627.D Vial: 27
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111627.D\EC111B27.D
Acq On : 16 Nov 99 11:55 PM Operator: MBROWN
Sample : PEST MX-C38-08 20% CCV Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 17 10:20 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylene	8.05	8.05	1483268	1257069	51.16	55.23
					Recovery	=	102.32%	110.46%
22)	S	Decachlorobiphenyl	19.64	20.44	2302070	1871079	104.42	107.72
					Recovery	=	208.84%	215.44%
		Target Compounds						
2)	T	alpha-BHC	9.21	9.31	863438	762585	24.76	26.70
3)	MT	gamma-BHC (Lindane)	9.83	9.99	816799	721115	25.06	26.92
4)	MT	Heptachlor	10.71	10.80	824947	724378	25.83	26.60
5)	MT	Aldrin	11.25	11.39	679234	592777	24.78	26.26
6)	T	beta-BHC	10.00	10.14	407662	368156	24.81	25.63
7)	T	delta-BHC	10.33	10.68	613503	529253	25.10	27.09
8)	T	Heptachlor Epoxide	12.44	12.52	728942	666110	25.40	27.19
9)	T	Endosulfan I	13.35	13.43	709566	657535	24.82	26.47
10)	T	gamma-Chlordane	12.71	12.94	740867	661251	25.21	26.92
11)	T	alpha-Chlordane	13.01	13.29	743506	668122	25.07	26.73
12)	T	4,4'-DDE	13.18	13.71	1370393	1235340	49.06	52.44
13)	MT	Dieldrin	13.97	14.16	1480045	1335576	50.06	52.99
14)	MT	Endrin	14.63	15.08	943965	835366	43.33	45.23
15)	T	4,4'-DDD	14.81	15.45	1204458	1073859	51.45	54.18
16)	T	Endosulfan II	15.34	15.74	1332297	1158464	50.69	53.42
17)	MT	4,4'-DDT	15.69	16.32	1268238	977722	48.77	50.92
18)	T	Endrin Aldehyde	16.46	16.60	1190120	1001976	52.84	54.96
19)	T	Methoxychlor	16.88	17.76	2668353	2187573	251.03	253.06
20)	T	Endosulfan Sulfate	17.38	17.19	898359	813279	51.17	53.75
21)	T	Endrin Ketone	17.90	18.16	1293537	1024284	53.75	55.85
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.

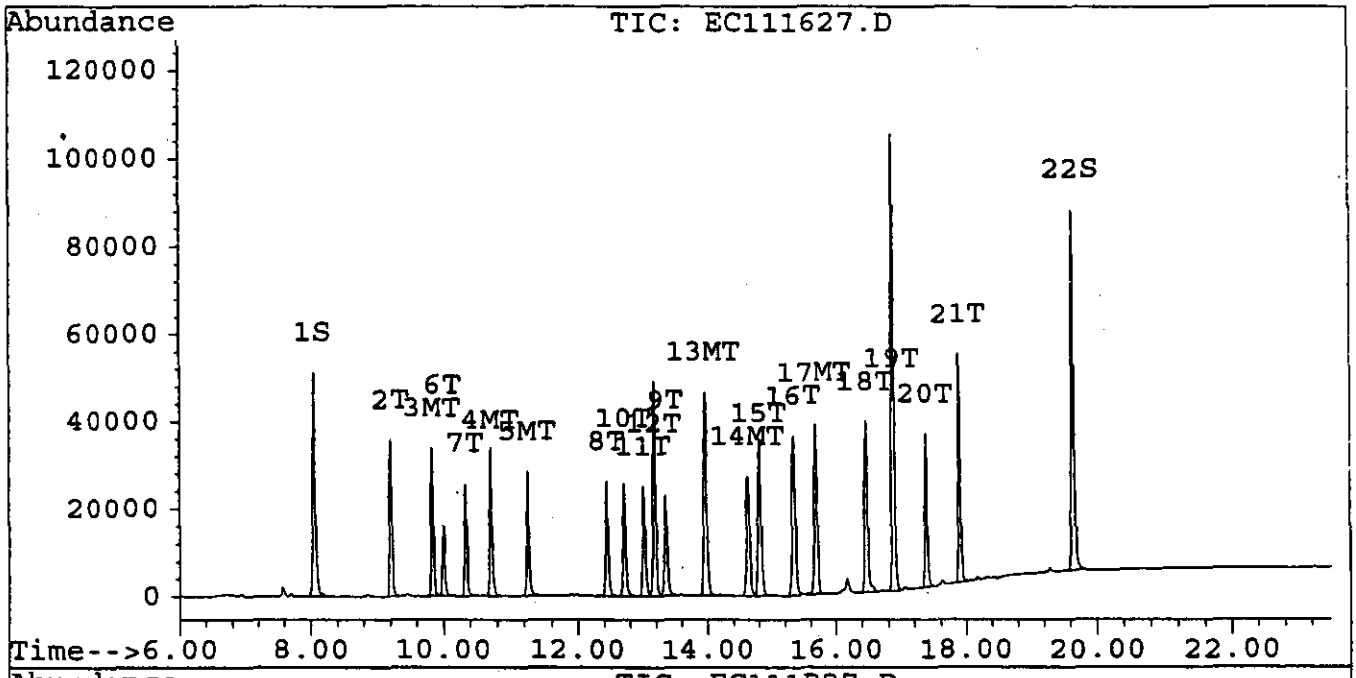
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

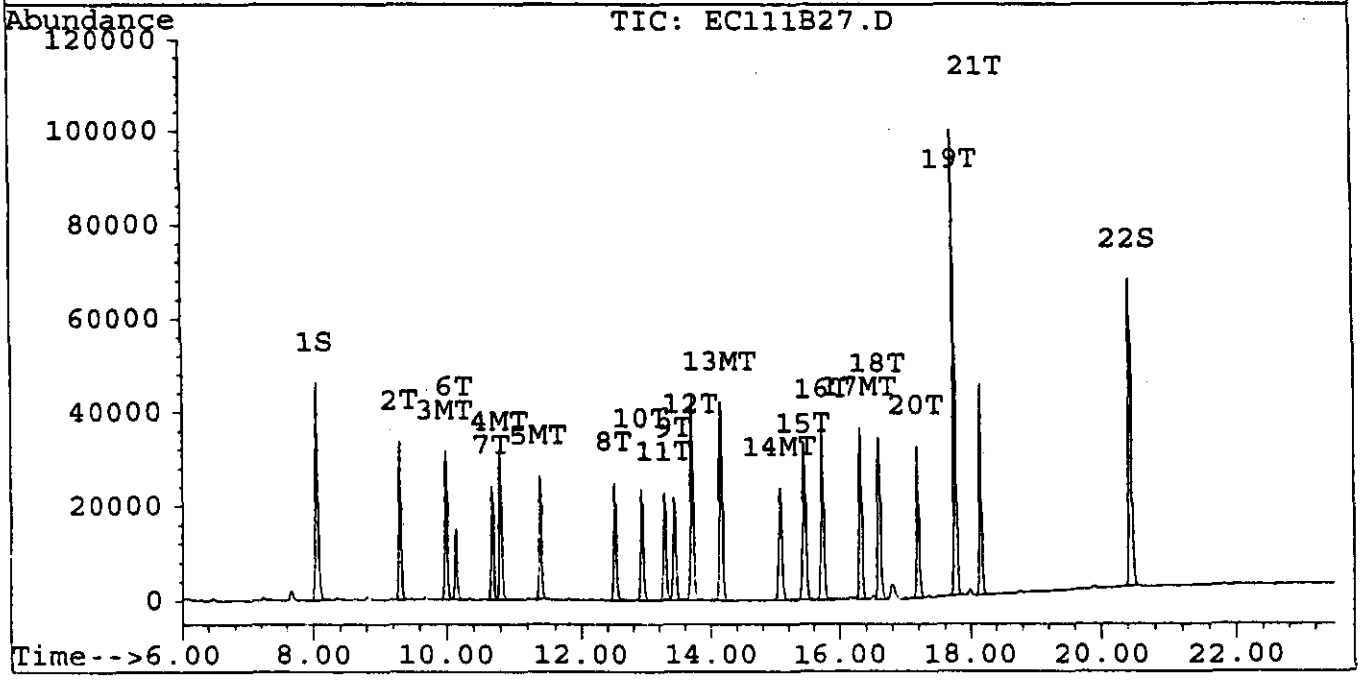
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111627.D Vial: 27
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111627.D\EC111B27.D
Acq On : 16 Nov 99 11:55 PM Operator: MBROWN
Sample : PEST MX-C38-08 20% CCV Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 17 10:20 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um





Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111636.D Vial: 36
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111636.D\EC111B36.D
Acq On : 17 Nov 99 04:58 AM Operator: MBROWN
Sample : PEST MX-C38-08 20% CCV Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 17 10:27 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylene	8.05	8.05	1483614	1265634	51.18	55.62
					Recovery	=	102.36%	111.24%
22)	S	Decachlorobiphenyl	19.65	20.44	2229859	1834450	100.91	105.43
					Recovery	=	201.82%	210.86%
		Target Compounds						
2)	T	alpha-BHC	9.21	9.30	854842	770553	24.52	26.97
3)	MT	gamma-BHC (Lindane)	9.83	9.99	807689	724909	24.79	27.06
4)	MT	Heptachlor	10.71	10.80	814659	729900	25.51	26.81
5)	MT	Aldrin	11.25	11.38	663924	593650	24.24	26.30
6)	T	beta-BHC	10.00	10.14	404075	370994	24.59	25.83
7)	T	delta-BHC	10.33	10.68	605408	533157	24.78	27.28
8)	T	Heptachlor Epoxide	12.45	12.52	715321	658082	24.93	26.86
9)	T	Endosulfan I	13.36	13.43	698714	636021	24.44	25.60
10)	T	gamma-Chlordane	12.72	12.93	722420	658405	24.58	26.80
11)	T	alpha-Chlordane	13.02	13.28	748376	660198	25.24	26.40
12)	T	4,4'-DDE	13.18	13.70	1395810	1266902	49.95	53.76
13)	MT	Dieldrin	13.97	14.16	1454476	1327935	49.21	52.69
14)	MT	Endrin	14.64	15.08	1076088	966323	49.23	52.24
15)	T	4,4'-DDD	14.82	15.45	1208722	1097365	51.63	55.36
16)	T	Endosulfan II	15.34	15.74	1306763	1157547	49.72	53.38
17)	MT	4,4'-DDT	15.69	16.32	1194227	930528	45.91	48.46
18)	T	Endrin Aldehyde	16.46	16.60	1089550	932015	48.01	50.87
19)	T	Methoxychlor	16.88	17.76	2561501	2107987	240.52	243.28
20)	T	Endosulfan Sulfate	17.39	17.19	855792	792516	48.75	52.34
21)	T	Endrin Ketone	17.90	18.16	1209024	963627	50.19	52.49
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.

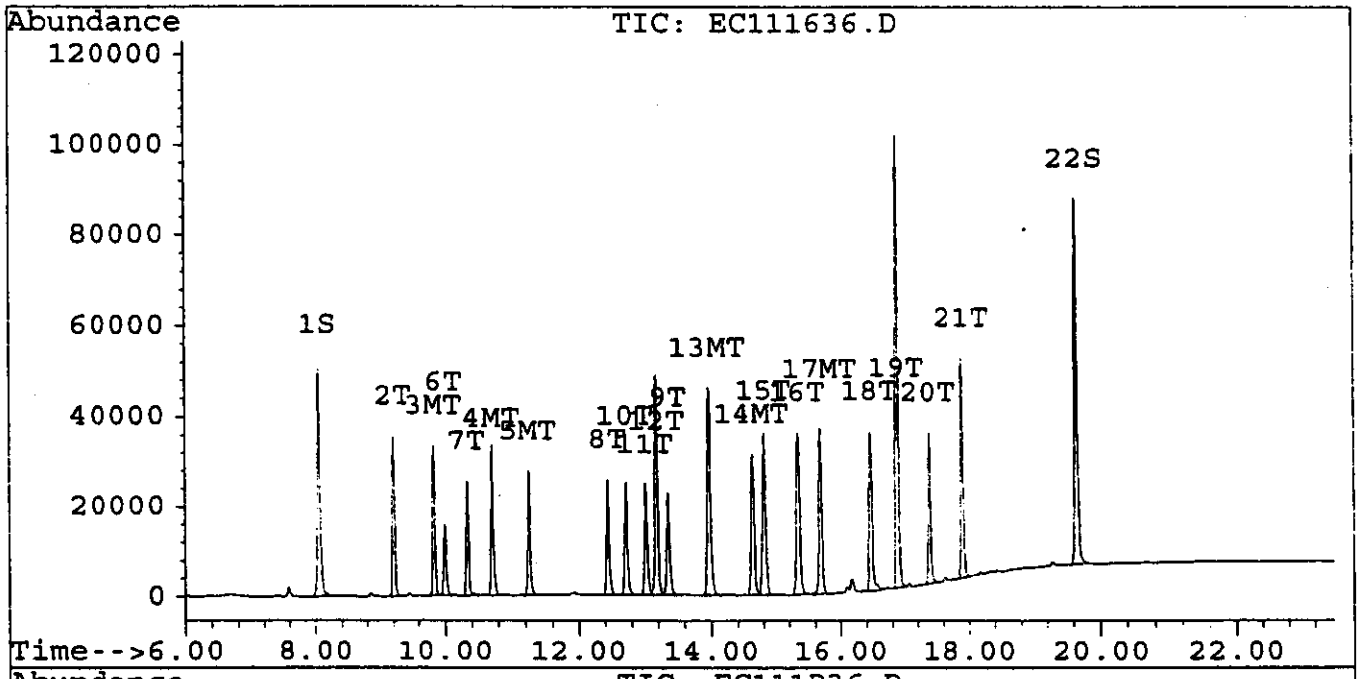
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

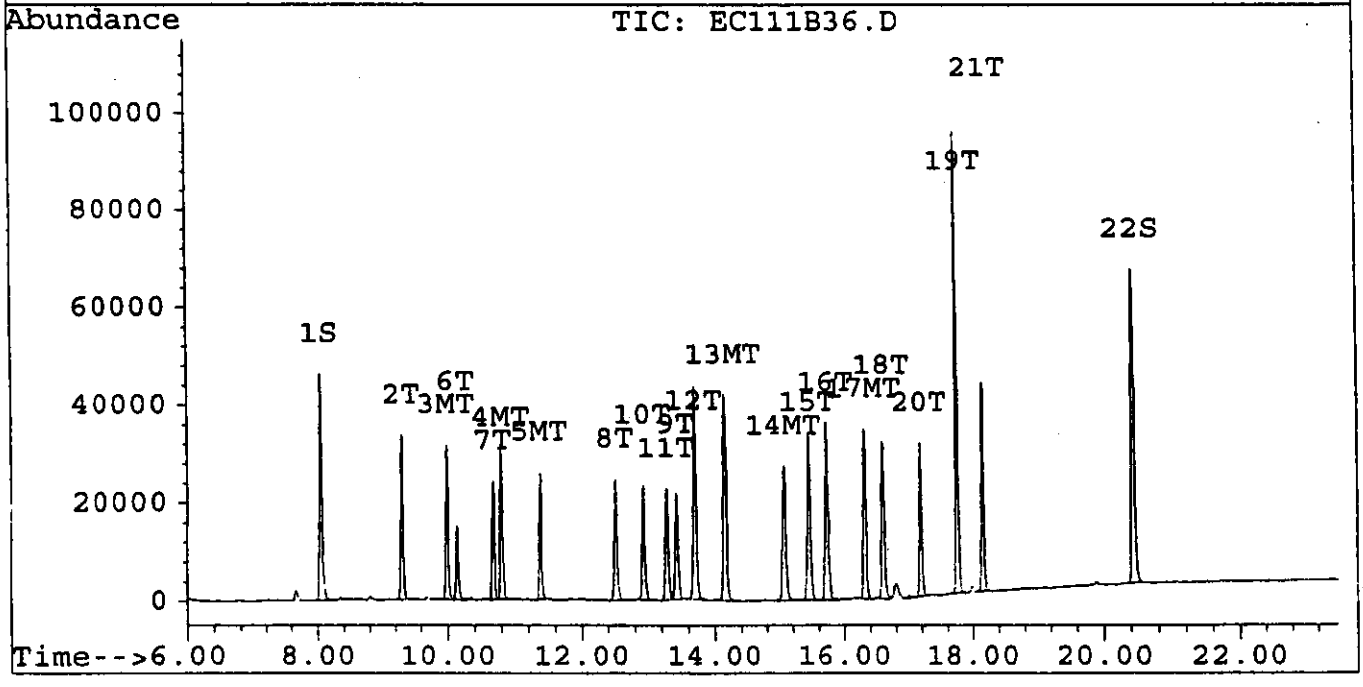
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111636.D Vial: 36
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111636.D\EC111B36.D
Acq On : 17 Nov 99 04:58 AM Operator: MBROWN
Sample : PEST MX-C38-08 20% CCV Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 17 10:27 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um





Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991117\EC111701.D Vial: 1
Signal #2 : C:\HPCHEM\5\DATA\991117\EC111701.D\EC111B01.D
Acq On : 17 Nov 99 07:03 PM Operator: MBROWN
Sample : PEM MX-A20-19 20% Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 18 7:54 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylene	8.05	8.05	1284570	1044755	44.12	45.50
					Recovery	=	88.24%	91.00%
22)	S	Decachlorobiphenyl	19.65	20.44	986788	809223	40.50	41.34
					Recovery	=	81.00%	82.68%
		Target Compounds						
2)	T	alpha-BHC	9.21	9.30	660643	580765	19.21	20.47
3)	MT	gamma-BHC (Lindane)	9.83	9.99	649004	568569	20.07	21.25
4)	MT	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
5)	MT	Aldrin	0.00	0.00	0	0	N.D.	N.D.
6)	T	beta-BHC	10.00	10.14	356320	315133	21.68	21.94
7)	T	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
8)	T	Heptachlor Epoxide	0.00	0.00	0	0	N.D.	N.D.
9)	T	Endosulfan I	13.32	13.40f	22491	18840	0.82	0.69
10)	T	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	T	alpha-Chlordane	0.00	13.40f	0	18840	N.D.	0.24 #
12)	T	4,4'-DDE	13.18	13.70	93220	68517	4.27	3.28
13)	MT	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	MT	Endrin	14.64	15.07	2231514	1921316	100.82	103.37
15)	T	4,4'-DDD	14.82	15.45	228805	202690	10.71	10.59
16)	T	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	MT	4,4'-DDT	15.69	16.32	4662751	3545121	180.05	184.68
18)	T	Endrin Aldehyde	16.47	16.60	214613	171036	5.92	6.41
19)	T	Methoxychlor	16.88	17.76	5106745	4037793	490.99	480.52
20)	T	Endosulfan Sulfate	0.00	0.00	0	0	N.D.	N.D.
21)	T	Endrin Ketone	17.90	18.16	158479	118415	5.99	5.74
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.

11/18/99 MB

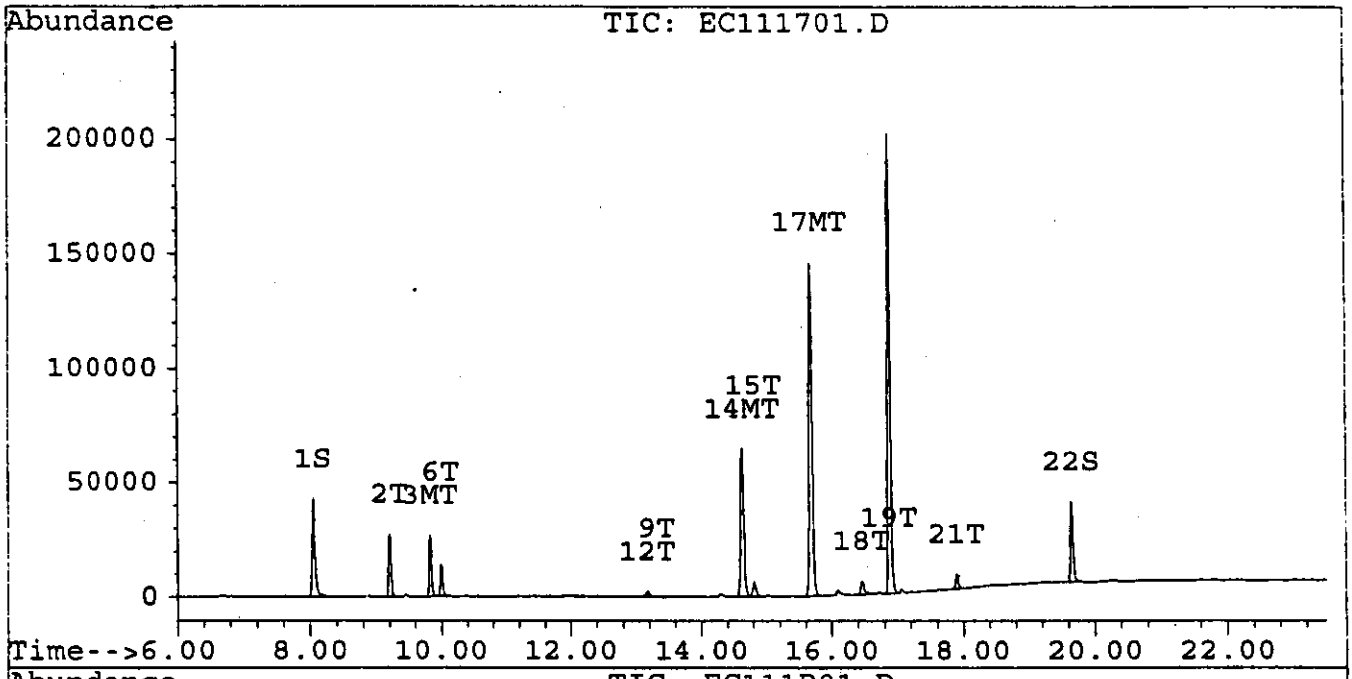
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

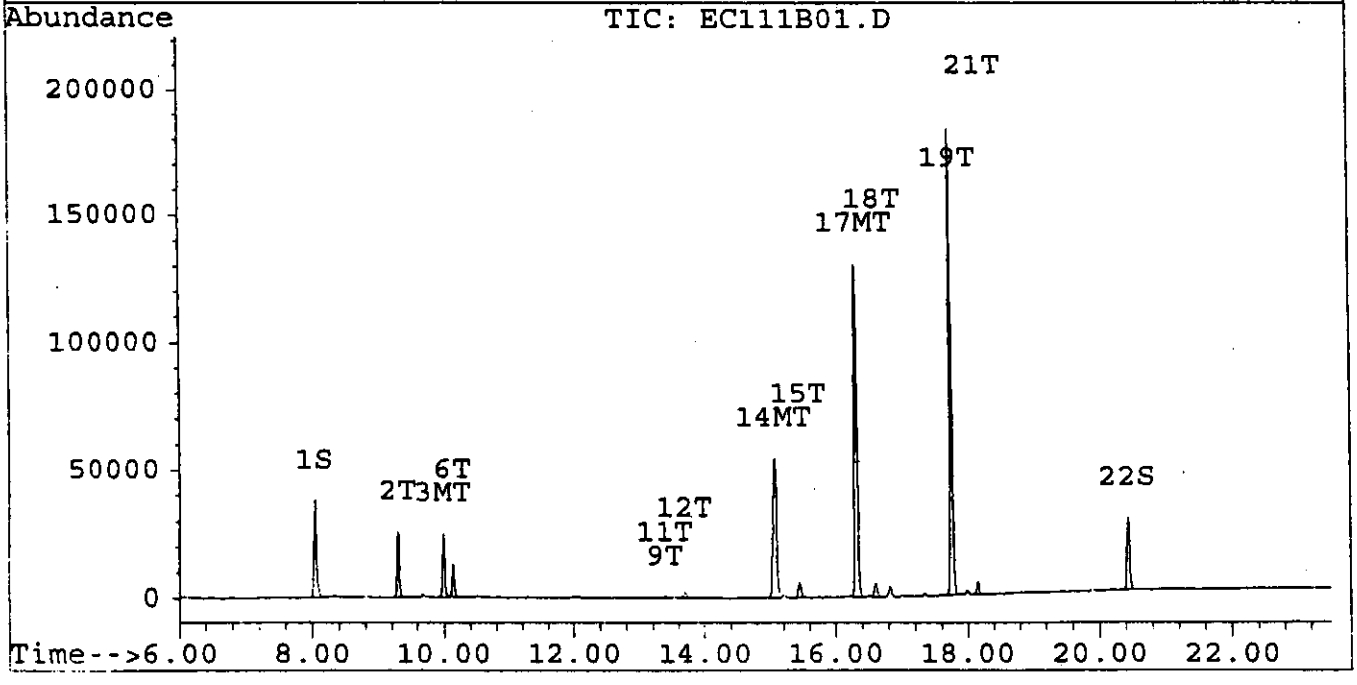
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991117\EC111701.D Vial: 1
Signal #2 : C:\HPCHEM\5\DATA\991117\EC111701.D\EC111B01.D
Acq On : 17 Nov 99 07:03 PM Operator: MBROWN
Sample : PEM MX-A20-19 20% Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 18 7:54 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um





Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991117\EC111702.D Vial: 2
Signal #2 : C:\HPCHEM\5\DATA\991117\EC111702.D\EC111B02.D
Acq On : 17 Nov 99 07:34 PM Operator: MBROWN
Sample : PEST MX-C38-08 20% CCV Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 18 7:55 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylene	8.05	8.05	1510815	1257362	52.14	55.24
					Recovery	=	104.28%	110.48%
22)	S	Decachlorobiphenyl	19.65	20.44	2262116	1832683	102.48	105.32
					Recovery	=	204.96%	210.64%
		Target Compounds						
2)	T	alpha-BHC	9.21	9.30	880848	774245	25.23	27.10
3)	MT	gamma-BHC (Lindane)	9.83	9.99	833401	727139	25.55	27.15
4)	MT	Heptachlor	10.71	10.80	836159	735525	26.19	27.02
5)	MT	Aldrin	11.25	11.38	687399	595763	25.07	26.39
6)	T	beta-BHC	10.00	10.14	415665	371199	25.29	25.84
7)	T	delta-BHC	10.33	10.68	630647	535725	25.79	27.41
8)	T	Heptachlor Epoxide	12.45	12.51	733472	656611	25.56	26.80
9)	T	Endosulfan I	13.36	13.43	722604	664066	25.27	26.73
10)	T	gamma-Chlordane	12.72	12.93	737672	650266	25.10	26.46
11)	T	alpha-Chlordane	13.02	13.28	752921	665015	25.40	26.60
12)	T	4,4'-DDE	13.18	13.70	1397014	1245805	50.00	52.88
13)	MT	Dieldrin	13.97	14.15	1485702	1330200	50.25	52.78
14)	MT	Endrin	14.64	15.07	1021922	893545	46.81	48.35
15)	T	4,4'-DDD	14.82	15.45	1234637	1095367	52.71	55.26
16)	T	Endosulfan II	15.35	15.73	1341652	1163914	51.04	53.68
17)	MT	4,4'-DDT	15.69	16.32	1223706	931980	47.05	48.53
18)	T	Endrin Aldehyde	16.47	16.60	1184014	974419	52.55	53.35
19)	T	Methoxychlor	16.88	17.76	2578806	2080840	242.22	239.94
20)	T	Endosulfan Sulfate	17.39	17.19	846497	749398	48.22	49.43
21)	T	Endrin Ketone	17.90	18.16	1258472	987358	52.27	53.80
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.

11/18/99 MB

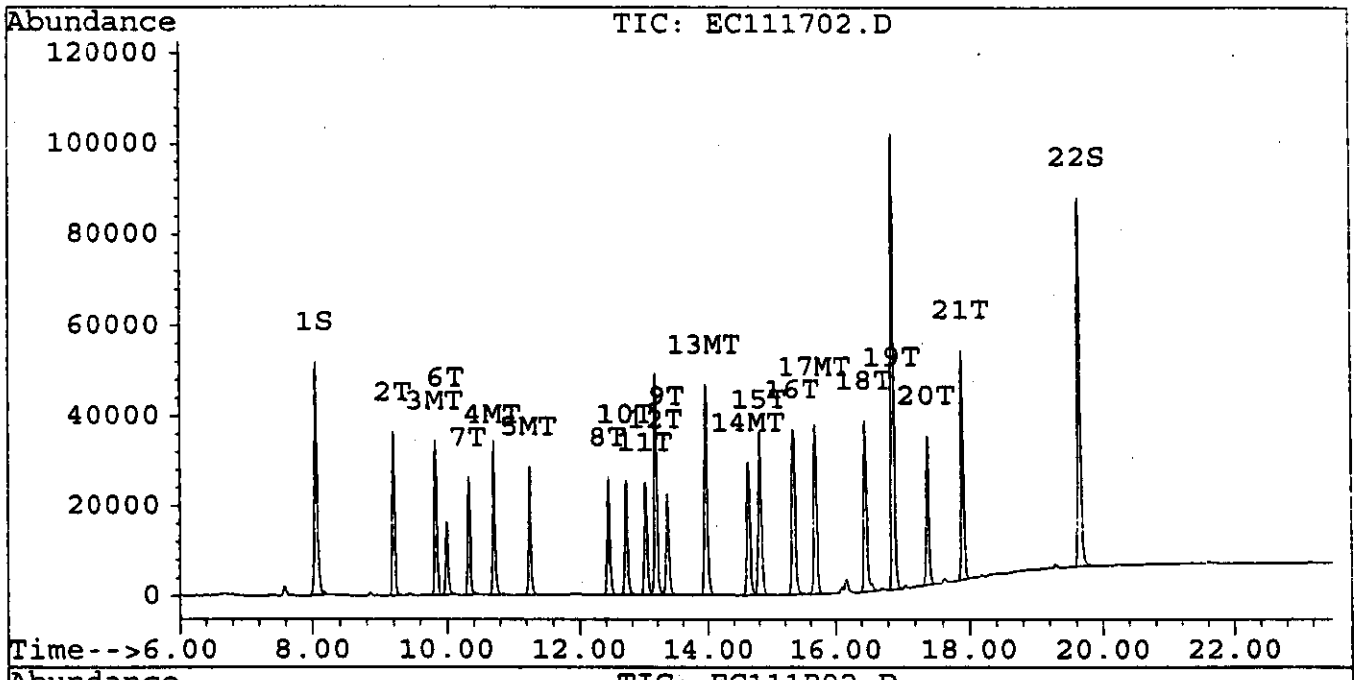
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

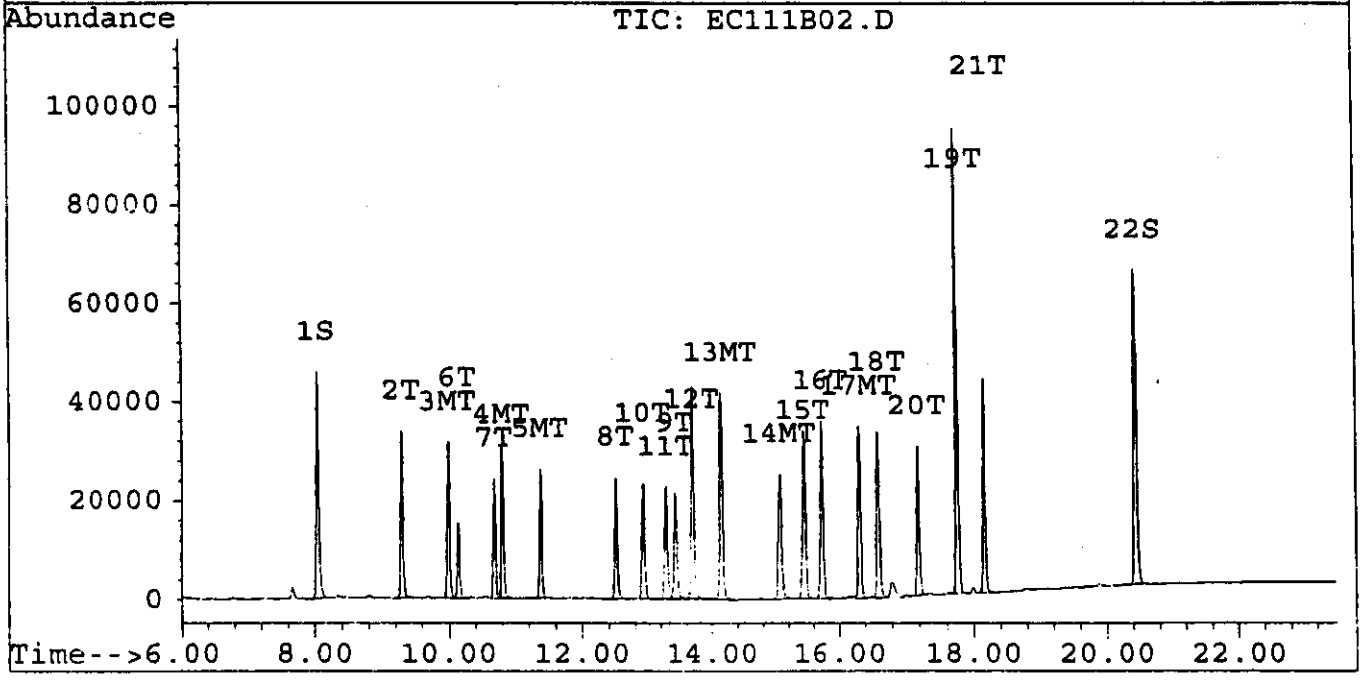
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991117\EC111702.D Vial: 2
Signal #2 : C:\HPCHEM\5\DATA\991117\EC111702.D\EC111B02.D
Acq On : 17 Nov 99 07:34 PM Operator: MBROWN
Sample : PEST MX-C38-08 20% CCV Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 18 7:55 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um





Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991117\EC111710.D Vial: 10
Signal #2 : C:\HPCHEM\5\DATA\991117\EC111710.D\EC111B10.D
Acq On : 18 Nov 99 00:07 AM Operator: MBROWN
Sample : PEST MX-C38-08 20% CCV Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 18 8:00 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylene	8.05	8.04	1523023	1321556	52.57	58.19
					Recovery	=	105.14%	116.38%
22)	S	Decachlorobiphenyl	19.64	20.43	2297748	1870266	104.21	107.66
					Recovery	=	208.42%	215.32%
		Target Compounds						
2)	T	alpha-BHC	9.20	9.30	892013	809593	25.54	28.31
3)	MT	gamma-BHC (Lindane)	9.82	9.98	840717	764168	25.77	28.52
4)	MT	Heptachlor	10.70	10.79	851556	770250	26.67	28.33
5)	MT	Aldrin	11.25	11.38	698982	625206	25.48	27.69
6)	T	beta-BHC	9.99	10.13	420470	387120	25.59	26.95
7)	T	delta-BHC	10.33	10.67	632675	560349	25.87	28.65
8)	T	Heptachlor Epoxide	12.44	12.51	748407	683125	26.08	27.90
9)	T	Endosulfan I	13.35	13.42	730840	682304	25.56	27.47
10)	T	gamma-Chlordane	12.71	12.92	753599	680782	25.65	27.73
11)	T	alpha-Chlordane	13.01	13.27	767071	691943	25.88	27.70
12)	T	4,4'-DDE	13.17	13.69	1401373	1284013	50.15	54.49
13)	MT	Dieldrin	13.96	14.14	1507734	1382858	50.98	54.89
14)	MT	Endrin	14.63	15.06	1029745	924537	47.16	50.01
15)	T	4,4'-DDD	14.81	15.44	1249047	1138318	53.32	57.40
16)	T	Endosulfan II	15.34	15.72	1359396	1203703	51.71	55.54
17)	MT	4,4'-DDT	15.68	16.31	1251840	981258	48.14	51.10
18)	T	Endrin Aldehyde	16.46	16.59	1132377	1006918	50.07	55.25
19)	T	Methoxychlor	16.87	17.75	2644756	2148089	248.71	248.21
20)	T	Endosulfan Sulfate	17.38	17.18	854679	770830	48.68	50.88
21)	T	Endrin Ketone	17.90	18.15	1281593	1018770	53.24	55.54
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.

11/18/99 MB

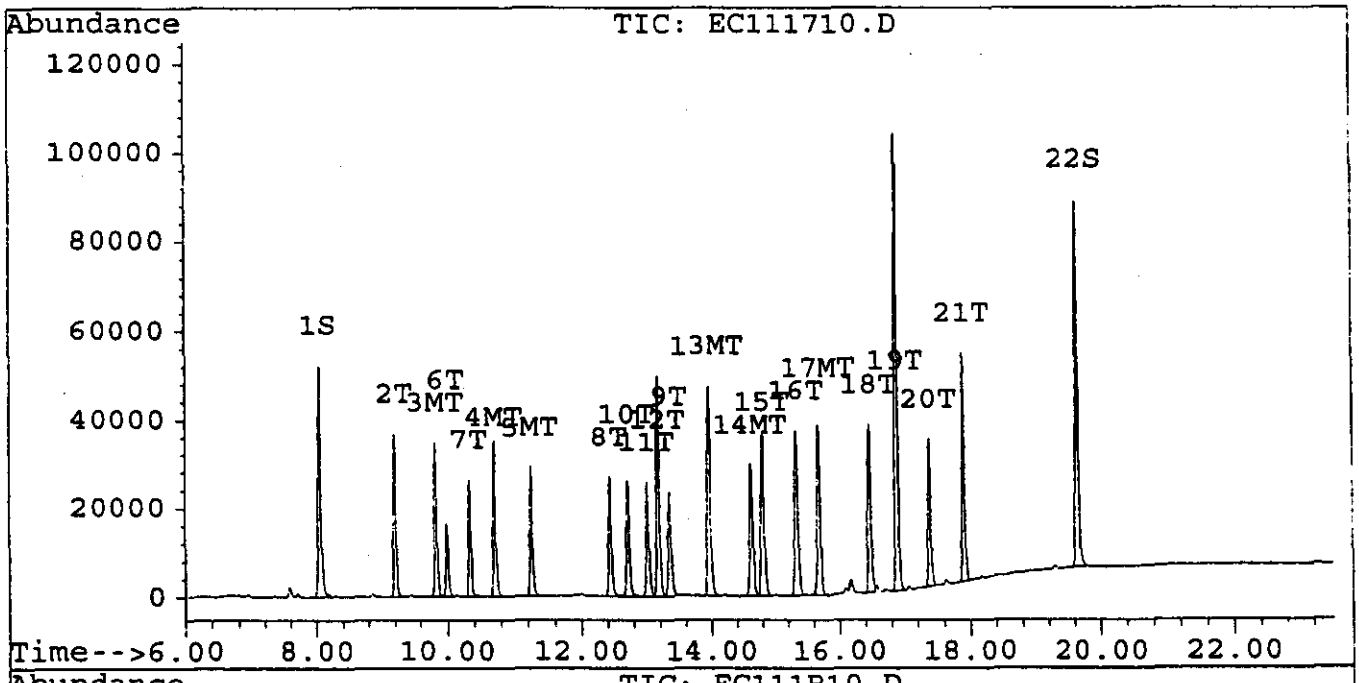
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

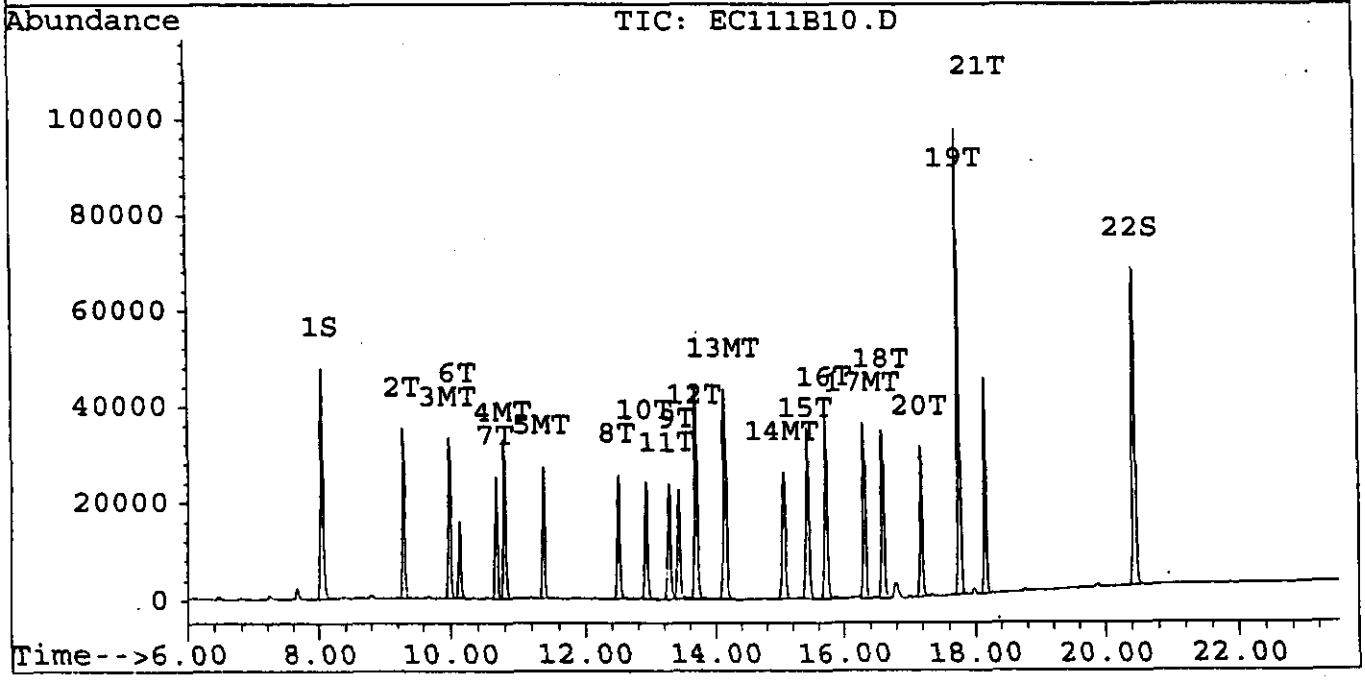
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991117\EC111710.D Vial: 10
Signal #2 : C:\HPCHEM\5\DATA\991117\EC111710.D\EC111B10.D
Acq On : 18 Nov 99 00:07 AM Operator: MBROWN
Sample : PEST MX-C38-08 20% CCV Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 18 8:00 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um





Sample Raw Data

Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111628.D Vial: 28
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111628.D\EC111B28.D
Acq On : 17 Nov 99 00:25 AM Operator: MBROWN
Sample : EX991110-5MB Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 17 10:25 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylene	8.06	8.06	1457711	1245361	50.26	54.69
					Recovery	=	100.52%	109.38%
22)	S	Decachlorobiphenyl	19.65	20.44	939273	780247	38.19	39.53
					Recovery	=	76.38%	79.06%
		Target Compounds						
2)	T	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	MT	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.
4)	MT	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
5)	MT	Aldrin	0.00	11.49f	0	15985	N.D.	0.99 #
6)	T	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	T	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
8)	T	Heptachlor Epoxide	0.00	0.00	0	0	N.D.	N.D.
9)	T	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
10)	T	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	T	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
12)	T	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	MT	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	MT	Endrin	0.00	0.00	0	0	N.D.	N.D.
15)	T	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16)	T	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	MT	4,4'-DDT	15.70	0.00	5705	0	N.D.	N.D.
18)	T	Endrin Aldehyde	16.50	16.52f	24056	29027	N.D.	N.D.
19)	T	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
20)	T	Endosulfan Sulfate	0.00	0.00	0	0	N.D.	N.D.
21)	T	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.

ND 11/17/99

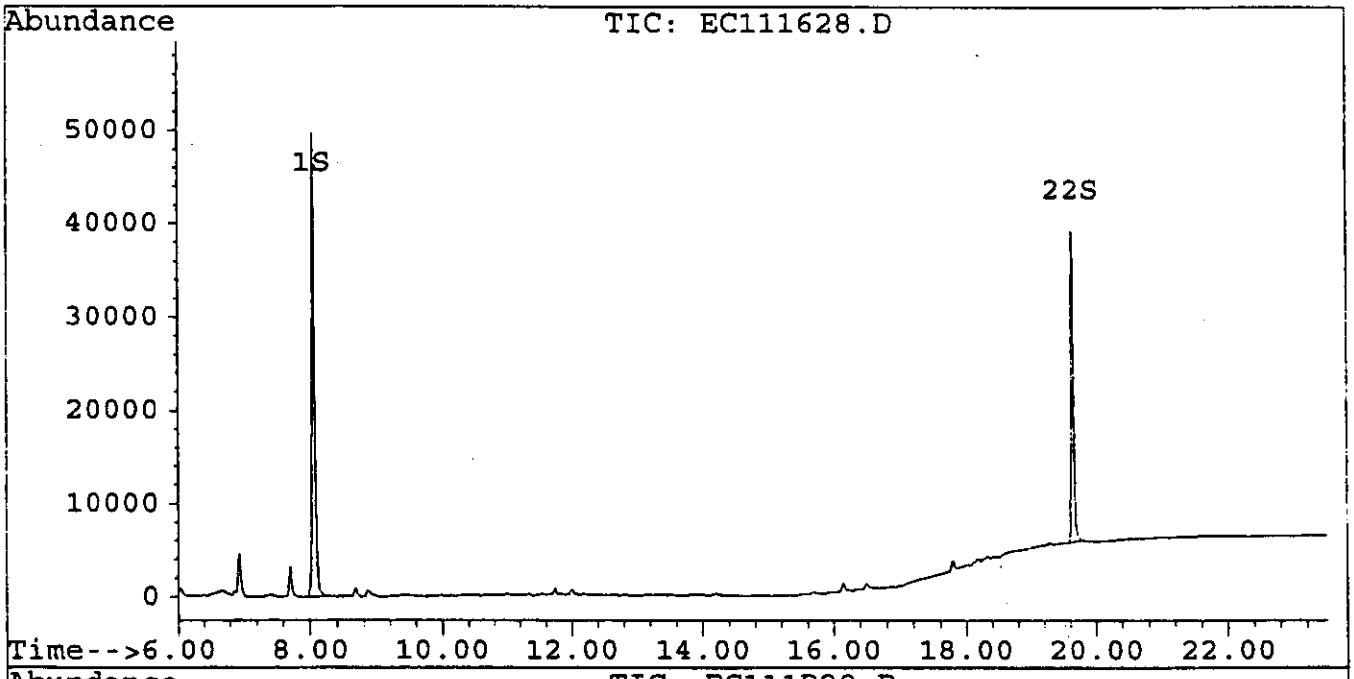
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

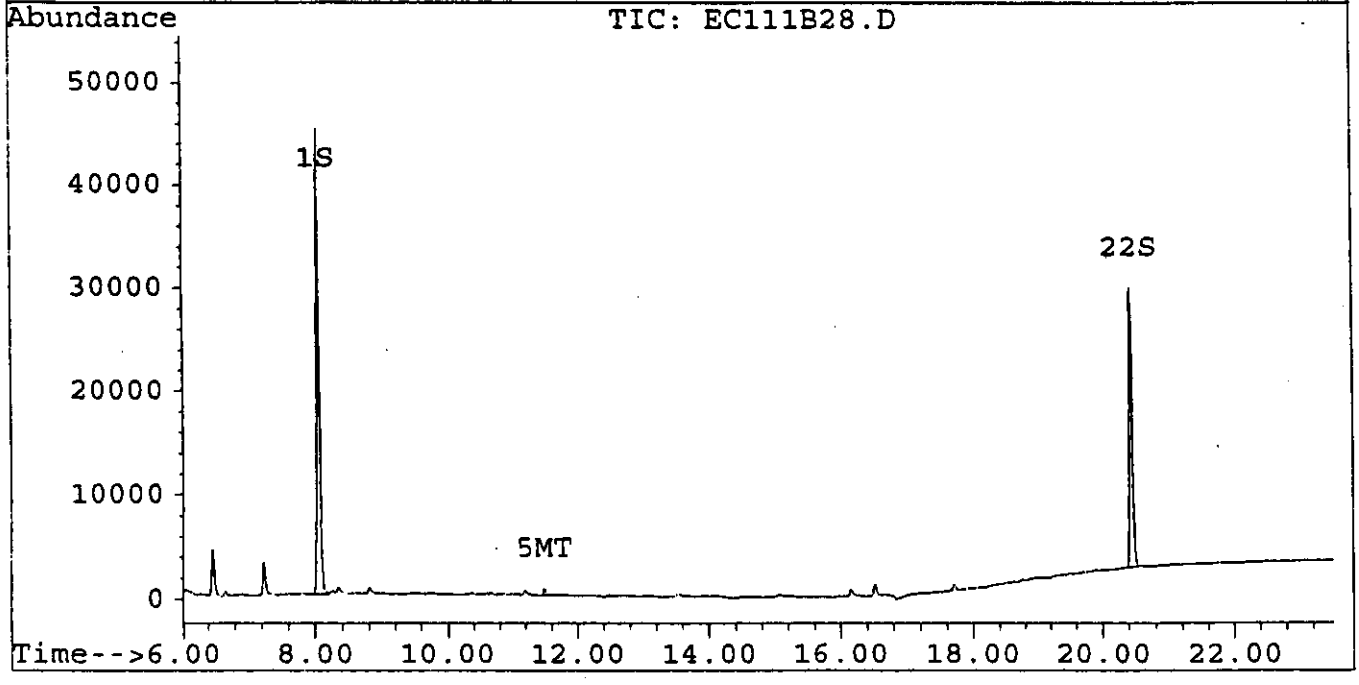
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111628.D Vial: 28
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111628.D\EC111B28.D
Acq On : 17 Nov 99 00:25 AM Operator: MBROWN
Sample : EX991110-5MB Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 17 10:25 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um





Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111631.D Vial: 31
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111631.D\EC111B31.D
Acq On : 17 Nov 99 01:56 AM Operator: MBROWN
Sample : 9911025-1 Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 17 10:26 1999

Rerun @ 5x

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
		System Monitoring Compounds							
1)	S	Tetrachloro-m-xylene	8.06	8.05	1467580	1255605	50.61	55.16	
					Recovery	=	101.22%	110.32%	
22)	S	Decachlorobiphenyl	19.65	20.44	918534	763448	37.18	38.48	
					Recovery	=	74.36%	76.96%	
		Target Compounds							
2)	T	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	MT	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.	
4)	MT	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
5)	MT	Aldrin	0.00	11.50f	0	36687	N.D.	1.90	#
6)	T	beta-BHC	0.00	10.11	0	16505	N.D.	1.15	#
7)	T	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
8)	T	Heptachlor Epoxide	12.40	0.00	498417	0	17.39	N.D.	#
9)	T	Endosulfan I	0.00	13.36f	0	41763	N.D.	1.62	#
10)	T	gamma-Chlordane	0.00	12.94	0	447527	N.D.	18.06	#
11)	T	alpha-Chlordane	0.00	13.36f	0	41763	N.D.	1.18	#
12)	T	4,4'-DDE	13.18	13.71	9400610	7881133	330.69	332.39	E
13)	MT	Dieldrin	0.00	14.26f	0	27967	N.D.	0.60	#
14)	MT	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	T	4,4'-DDD	14.82	15.46	32620	50861	2.52 BMDL	2.99	
16)	T	Endosulfan II	15.27f	0.00	20510	0	1.17	N.D.	#
17)	MT	4,4'-DDT	15.69	16.32	1062252	873883	40.80	45.51	
18)	T	Endrin Aldehyde	16.50	16.53f	26402	98035	N.D.	2.14	
19)	T	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
20)	T	Endosulfan Sulfate	0.00	0.00	0	0	N.D.	N.D.	
21)	T	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.	
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.	
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.	
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.	
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.	
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.	
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.	
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.	
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.	

11/17/99 MB

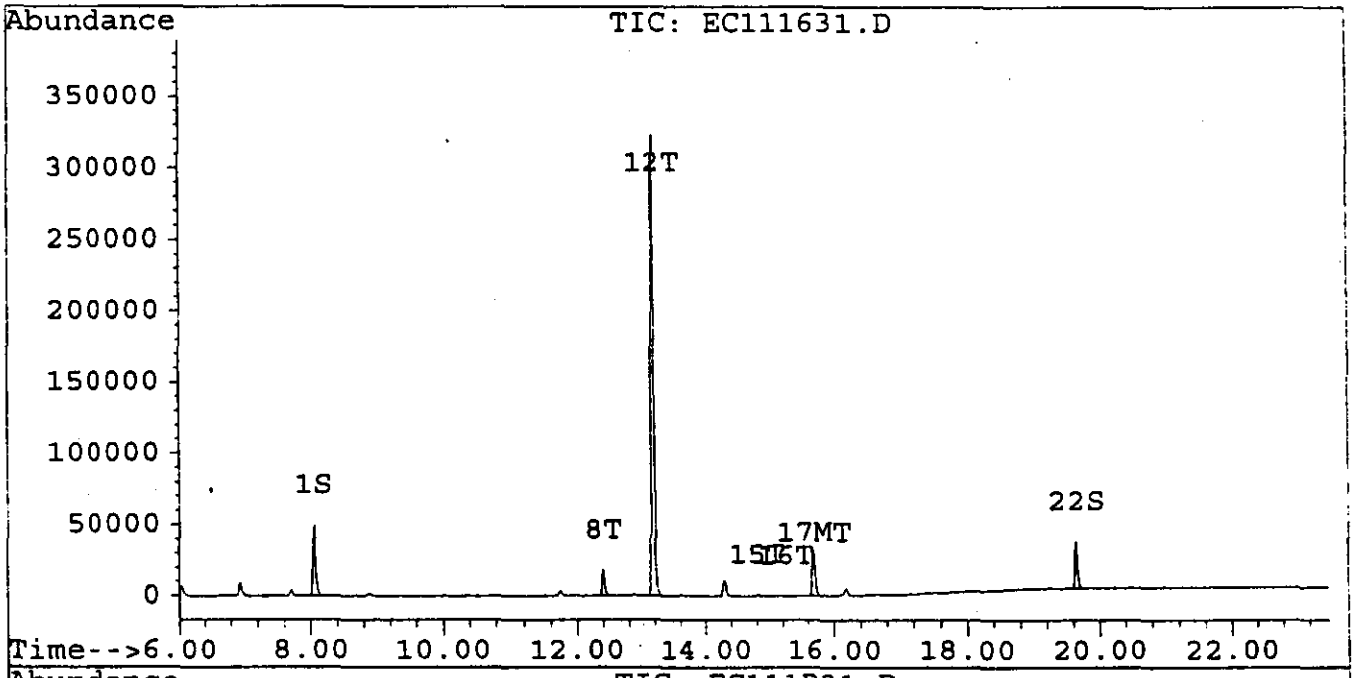
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

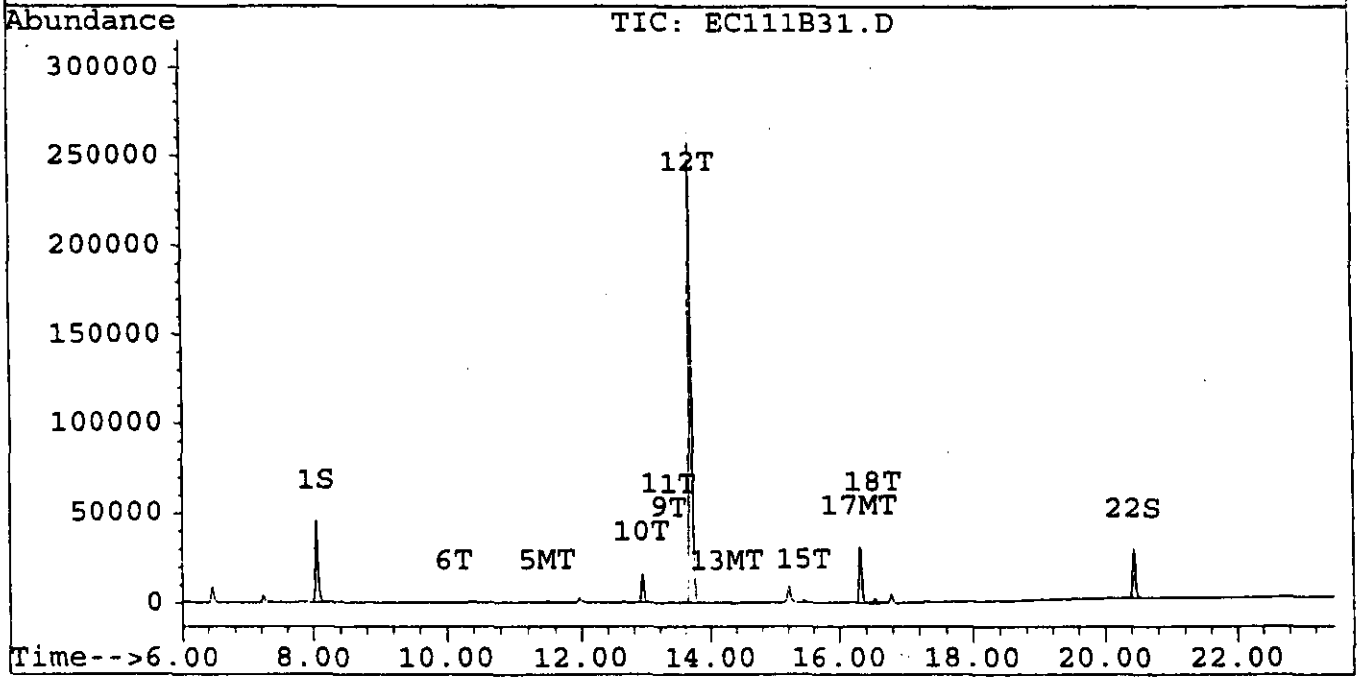
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111631.D Vial: 31
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111631.D\EC111B31.D
Acq On : 17 Nov 99 01:56 AM Operator: MBROWN
Sample : 9911025-1 Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 17 10:26 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um





Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111632.D Vial: 32
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111632.D\EC111B32.D
Acq On : 17 Nov 99 02:26 AM Operator: MBROWN
Sample : 9911025-2 Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 17 10:26 1999

RR@ 100X

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
		System Monitoring Compounds							
1)	S	Tetrachloro-m-xylene	8.05	8.05	1467004	1250035	50.59	54.91	
					Recovery	=	101.18%	109.82%	
22)	S	Decachlorobiphenyl	19.64	20.44	956915	779885	39.05	39.51	
					Recovery	=	78.10%	79.02%	
		Target Compounds							
2)	T	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	MT	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.	
4)	MT	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
5)	MT	Aldrin	0.00	11.49f	0	18195	N.D.	1.09	#
6)	T	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	T	delta-BHC	10.40f	10.61f	58625	53268	3.06	3.12	
8)	T	Heptachlor Epoxide	12.40	12.45f	16257568	185566	565.02	7.27	#
9)	T	Endosulfan I	0.00	13.36f	0	1760587	N.D.	70.98	#
10)	T	gamma-Chlordane	12.74	12.93	42757	13131232	1.15	543.88	#
11)	T	alpha-Chlordane	13.05	13.36f	118239	1760587	3.56	71.29	#
12)	T	4,4'-DDE	13.19	13.71	125.2E6	113.2E6	4391.53	4767.71	
13)	MT	Dieldrin	14.01	14.16	138982	53537	5.56	62	#
14)	MT	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	T	4,4'-DDD	14.82	15.46	2397770	2808000	101.28	140.95	#
16)	T	Endosulfan II	0.00	15.78	0	40064	N.D.	1.12	#
17)	MT	4,4'-DDT	15.69	16.32	88935610	61087447	3439.35	3182.64	
18)	T	Endrin Aldehyde	16.49	16.53f	22956	666599	N.D.	35.36	
19)	T	Methoxychlor	16.87	0.00	30670	0	N.D.	N.D.	
20)	T	Endosulfan Sulfate	17.39	17.30f	100415	88904	5.75	4.74	
21)	T	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.	
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.	
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.	
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.	
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.	
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.	
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.	
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.	
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.	

11/17/99

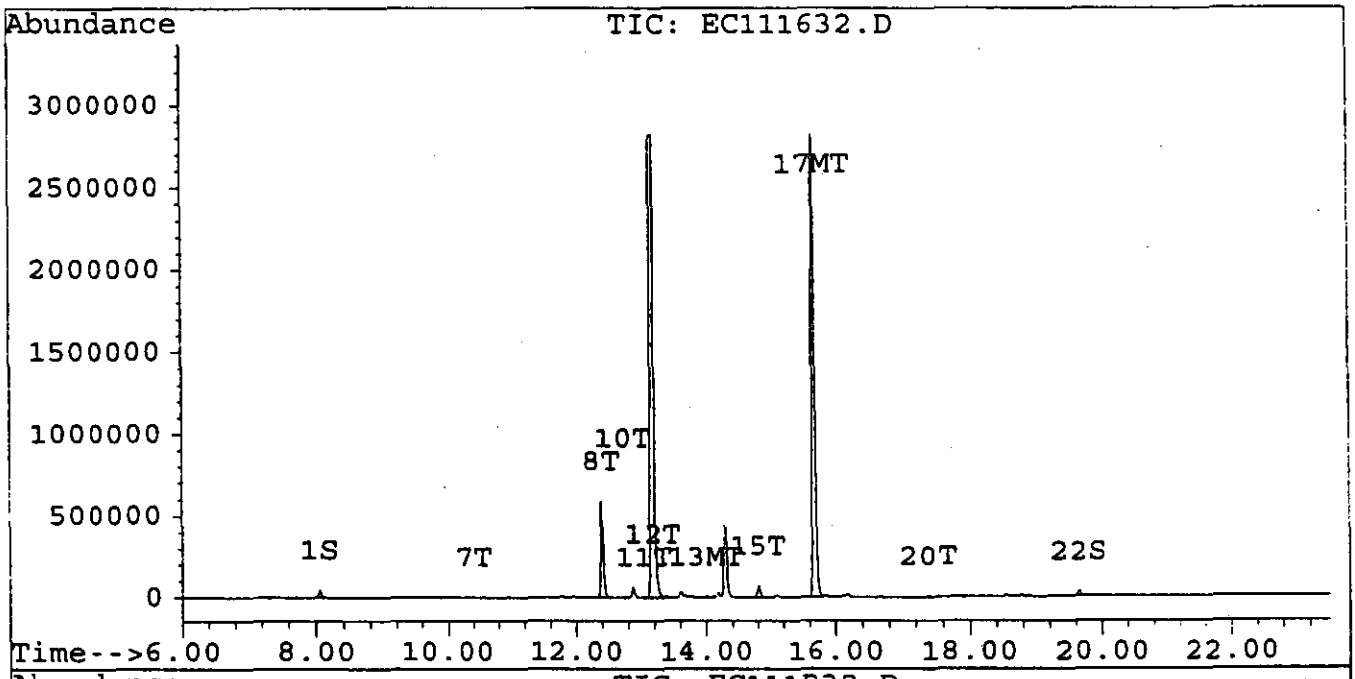
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

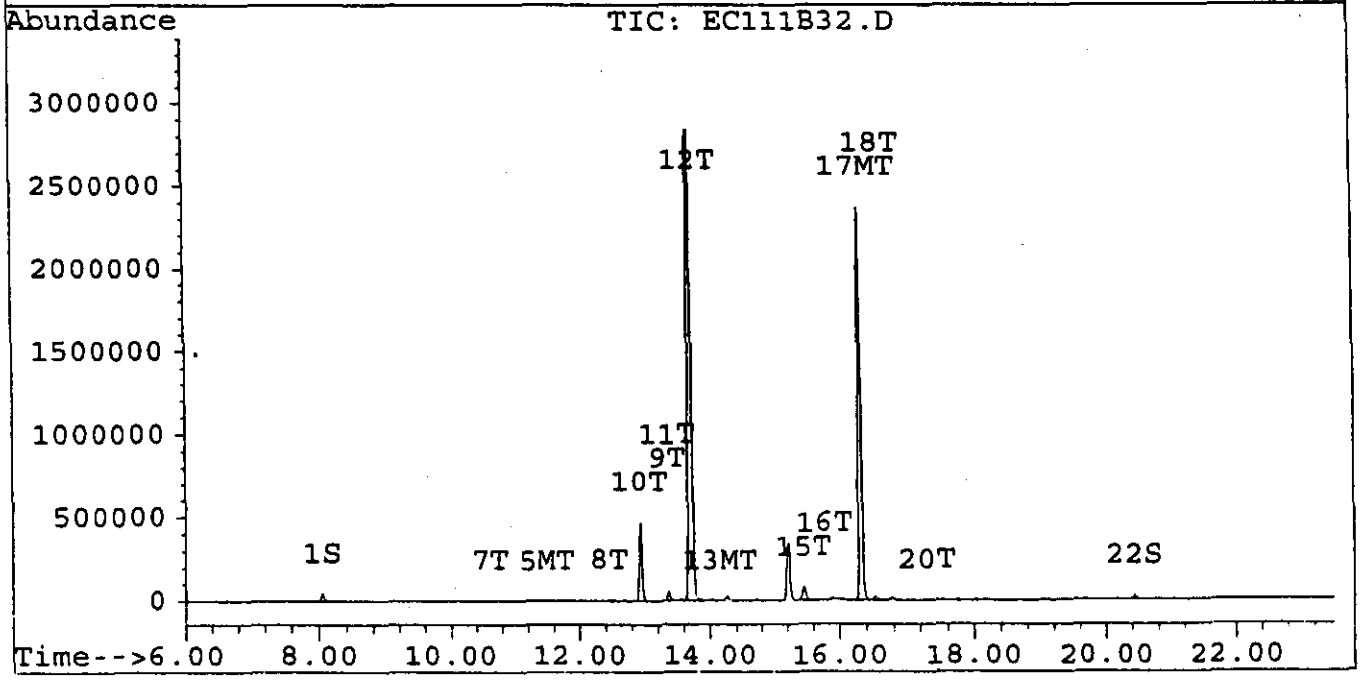
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111632.D Vial: 32
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111632.D\EC111B32.D
Acq On : 17 Nov 99 02:26 AM Operator: MBROWN
Sample : 9911025-2 Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 17 10:26 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um





Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111633.D Vial: 33
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111633.D\EC111B33.D
Acq On : 17 Nov 99 02:57 AM Operator: MBROWN
Sample : 9911025-3 Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 17 10:26 1999

Rerun @100X

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
		System Monitoring Compounds							
1)	S	Tetrachloro-m-xylene	8.05	8.05	1407624	1212540	48.48	53.19	
					Recovery	=	96.96%	106.38%	
22)	S	Decachlorobiphenyl	19.64	20.44	925227	777917	37.51	39.39	
					Recovery	=	75.02%	78.78%	
		Target Compounds							
2)	T	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	MT	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.	
4)	MT	Heptachlor	10.67	0.00	7346	0	0.02	N.D.	#
5)	MT	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
6)	T	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	T	delta-BHC	10.40f	10.61f	79033	67627	3.87	3.85	
8)	T	Heptachlor Epoxide	12.40	12.45f	5809903	72140	201.96	2.56	#
9)	T	Endosulfan I	0.00	13.36f	0	1027422	N.D.	41.39	#
10)	T	gamma-Chlordane	12.74	12.93	51448	4815816	1.45	199.15	#
11)	T	alpha-Chlordane	13.04	13.36f	88754	1027422	2.55	41.38	#
12)	T	4,4'-DDE	13.18	13.70	87171074	62772003	3058.12	2644.65	
13)	MT	Dieldrin	14.00	14.16	137837	69340	5.53	2.26	#
14)	MT	Endrin	14.58f	0.00	120123	0	6.54	N.D.	#
15)	T	4,4'-DDD	14.82	15.45	5018593	5180408	210.72	259.66	
16)	T	Endosulfan II	15.26f	15.76	69550	125518	3.02	5.11	#
17)	MT	4,4'-DDT	15.70	16.32	120.7E6	94322056	4669.51	4914.16	
18)	T	Endrin Aldehyde	16.49	16.53f	24690	304895	N.D.	14.23	
19)	T	Methoxychlor	16.86	0.00	42206	0	N.D.	N.D.	
20)	T	Endosulfan Sulfate	17.39	0.00	109947	0	6.29	N.D.	#
21)	T	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.	
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.	
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.	
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.	
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.	
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.	
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.	
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.	
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.	

11/17/99 MB

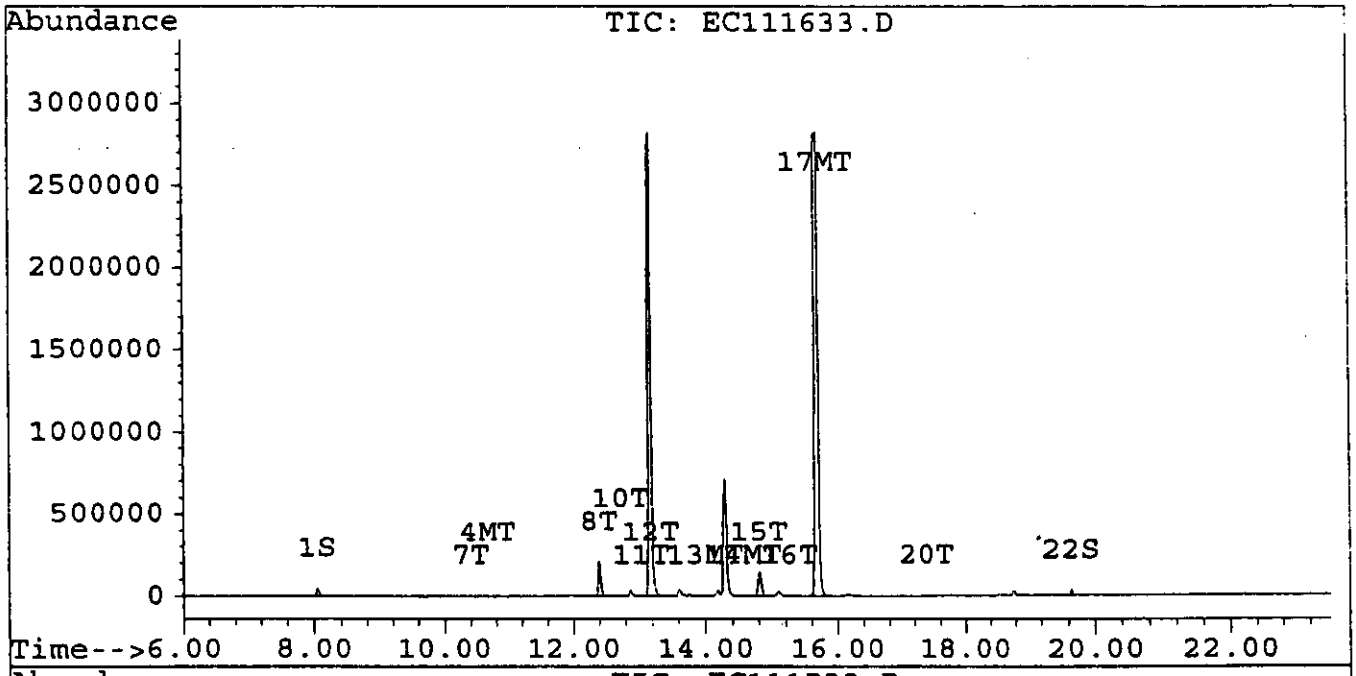
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

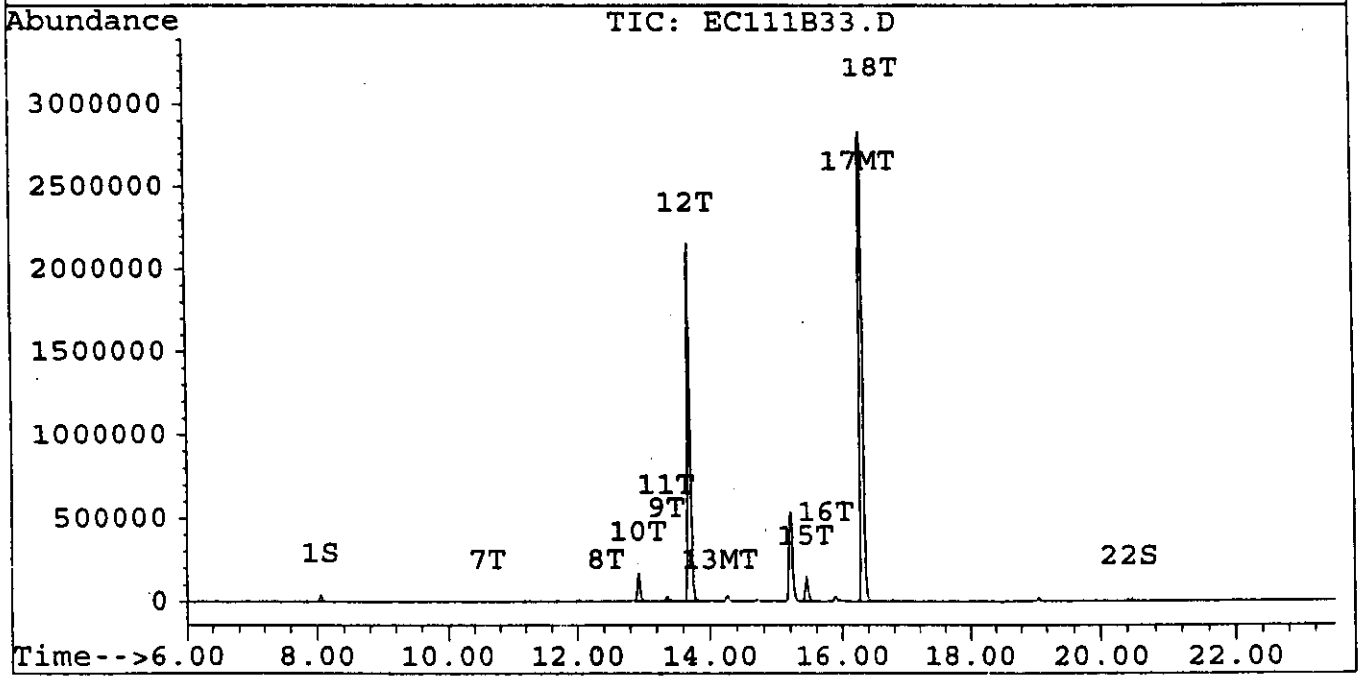
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111633.D Vial: 33
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111633.D\EC111B33.D
Acq On : 17 Nov 99 02:57 AM Operator: MBROWN
Sample : 9911025-3 Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 17 10:26 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um





Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991117\EC111703.D Vial: 3
Signal #2 : C:\HPCHEM\5\DATA\991117\EC111703.D\EC111B03.D
Acq On : 17 Nov 99 08:04 PM Operator: MBROWN
Sample : 9911025-1 5X Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 18 7:58 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
							Rep. succ. from original anal.		
		System Monitoring Compounds							
1)	S	Tetrachloro-m-xylene	8.05	8.05	322702	271404	10.05	10.04	
					Recovery	=	20.10%	20.08%	
22)	S	Decachlorobiphenyl	19.65	20.44	207938	178800	2.65	1.94	#
					Recovery	=	5.30%	3.88%	
		Target Compounds							
2)	T	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	MT	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.	
4)	MT	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
5)	MT	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
6)	T	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	T	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
8)	T	Heptachlor Epoxide	12.40	0.00	101873	0	3.61	N.D.	#
9)	T	Endosulfan I	0.00	13.36f	0	15912	N.D.	0.57	#
10)	T	gamma-Chlordane	0.00	12.93	0	89472	N.D.	3.21	#
11)	T	alpha-Chlordane	0.00	13.36f	0	15912	N.D.	0.12	#
12)	T	4,4'-DDE	13.18	13.70	1940693	1707554	69.06	72.33	
13)	MT	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	MT	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	T	4,4'-DDD	0.00	15.45	0	14698	N.D.	1.18	#
16)	T	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	MT	4,4'-DDT	15.69	16.31	198051	162376	7.38	8.44	
18)	T	Endrin Aldehyde	16.50	16.52f	29713	10015	N.D.	N.D.	
19)	T	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
20)	T	Endosulfan Sulfate	0.00	0.00	0	0	N.D.	N.D.	
21)	T	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.	
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.	
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.	
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.	
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.	
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.	
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.	
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.	
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.	

DF = 5

11/18/99

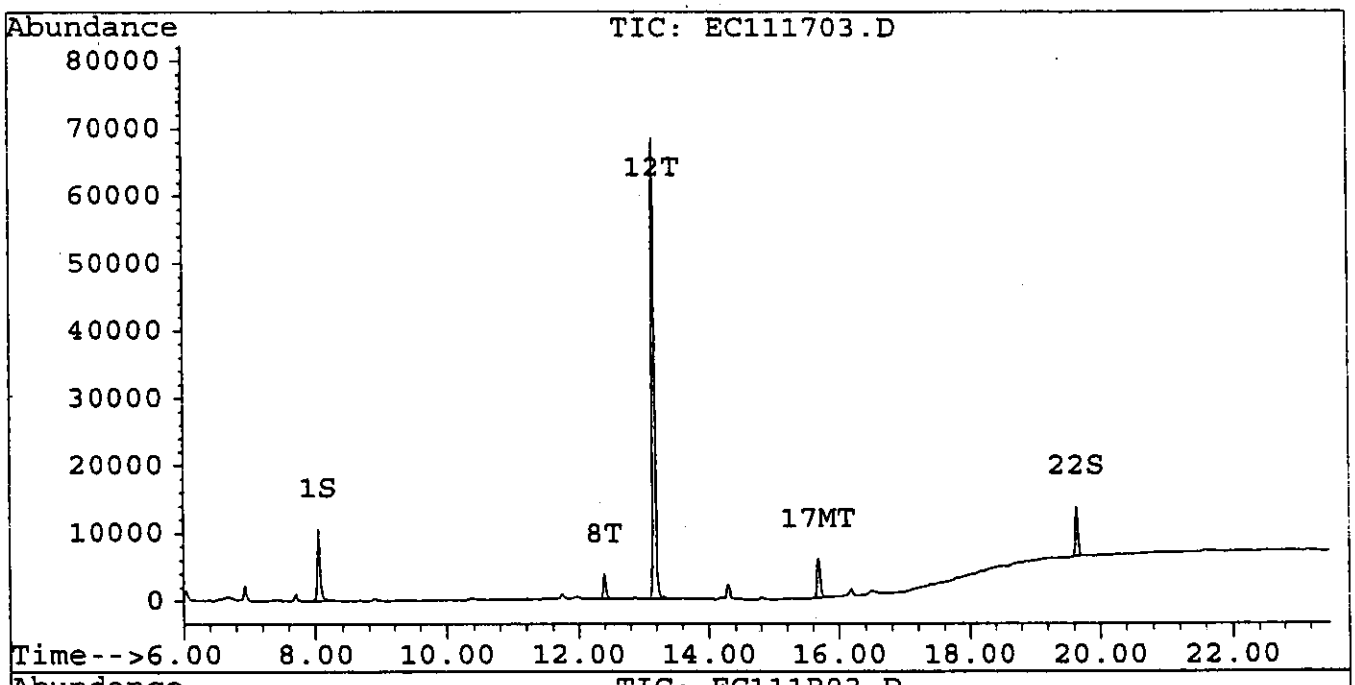
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

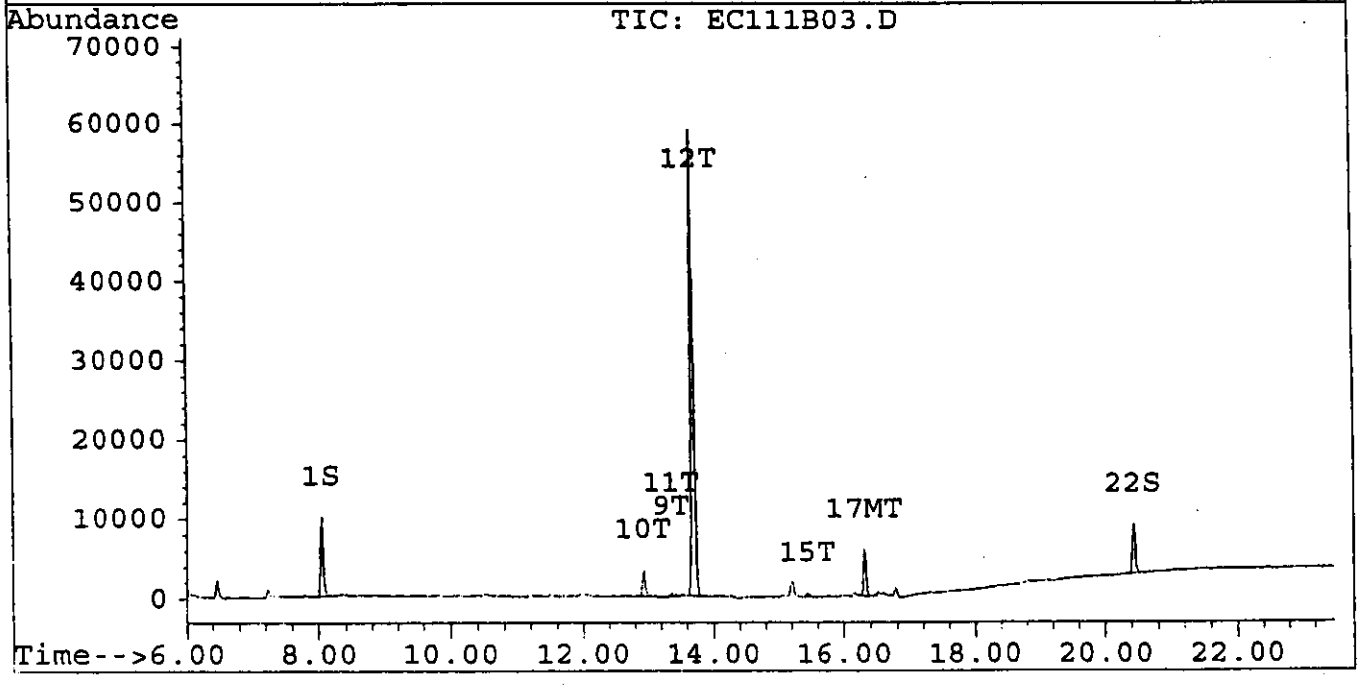
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991117\EC111703.D Vial: 3
Signal #2 : C:\HPCHEM\5\DATA\991117\EC111703.D\EC111B03.D
Acq On : 17 Nov 99 08:04 PM Operator: MBROWN
Sample : 9911025-1 5X Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 18 7:58 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um





Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991117\EC111705.D Vial: 5
Signal #2 : C:\HPCHEM\5\DATA\991117\EC111705.D\EC111B05.D
Acq On : 17 Nov 99 09:05 PM Operator: MBROWN
Sample : 9911025-2 100X Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 18 7:58 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
		System Monitoring Compounds							
1)	S	Tetrachloro-m-xylene	8.05	8.05	13358	13890	N.D.	N.D.	
					Recovery	=	0.00%	0.00%	
22)	S	Decachlorobiphenyl	0.00	0.00	0	0	N.D.	N.D.	
					Recovery	=	0.00%	0.00%	
		Target Compounds							
2)	T	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	MT	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.	
4)	MT	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
5)	MT	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
6)	T	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	T	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
8)	T	Heptachlor Epoxide	12.40	0.00	178536	0	6.28	N.D.	#
9)	T	Endosulfan I	0.00	13.35f	0	18644	N.D.	0.68	#
10)	T	gamma-Chlordane	0.00	12.93	0	159527	N.D.	6.12	#
11)	T	alpha-Chlordane	0.00	13.35f	0	18644	N.D.	0.24	#
12)	T	4,4'-DDE	13.18	13.70	1735950	1559358	61.88	66.08	
13)	MT	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
[illegible])	MT	Endrin	0.00	0.00	0	0	N.D.	N.D.	
[illegible])	T	4,4'-DDD	14.81	15.44	49170	54723	3.21	3.19	9m
[illegible])	T	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
1[illegible])	MT	4,4'-DDT	15.69	16.31	712582	594961	27.28	30.97	
18)	T	Endrin Aldehyde	16.50	16.52f	21214	9414	N.D.	N.D.	
19)	T	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
20)	T	Endosulfan Sulfate	0.00	0.00	0	0	N.D.	N.D.	
21)	T	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.	
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.	
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.	
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.	
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.	
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.	
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.	
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.	
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.	

DF = 100

11/18/99 v2

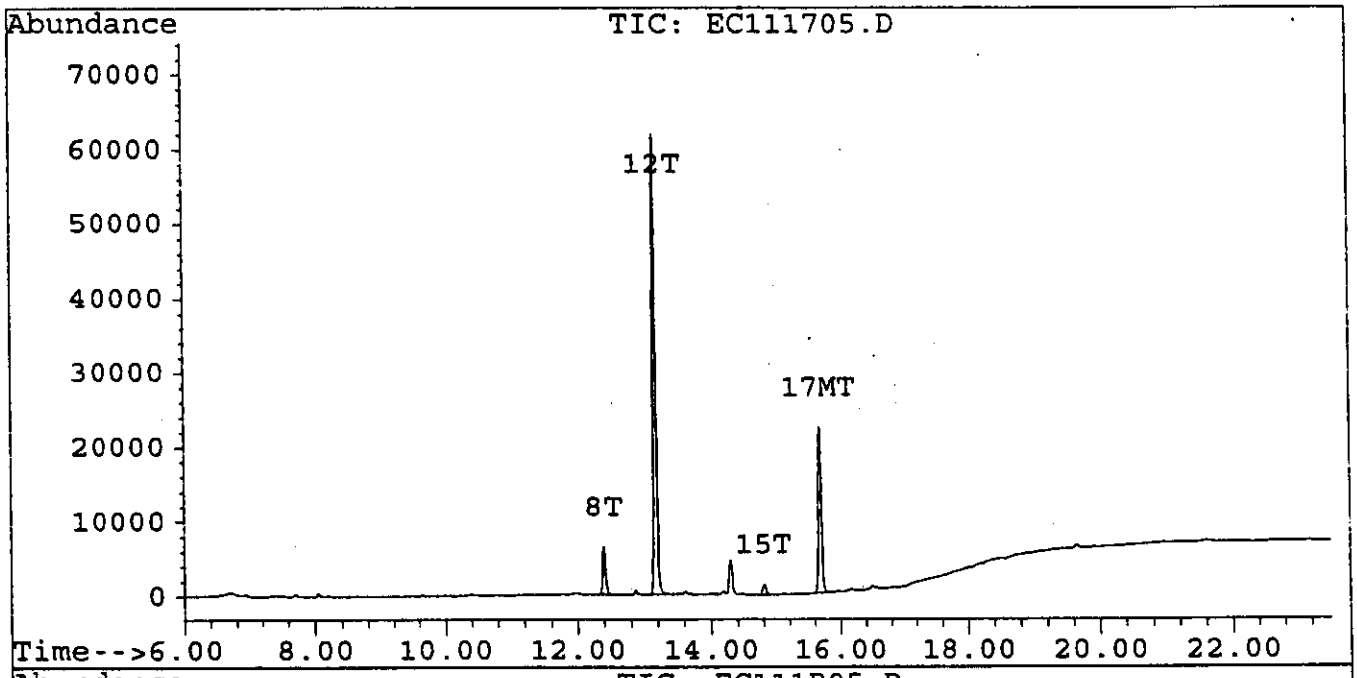
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

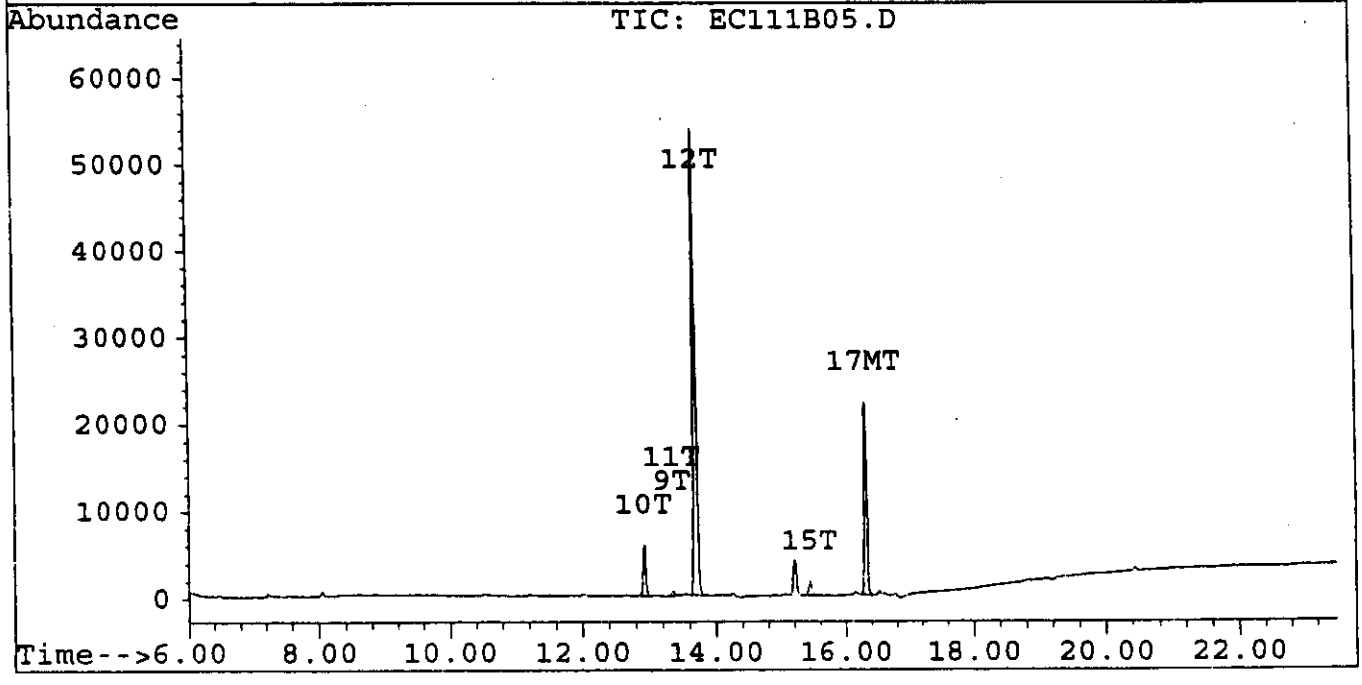
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991117\EC111705.D Vial: 5
Signal #2 : C:\HPCHEM\5\DATA\991117\EC111705.D\EC111B05.D
Acq On : 17 Nov 99 09:05 PM Operator: MBROWN
Sample : 9911025-2 100X Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 18 7:58 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um





Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991117\EC111707.D Vial: 7
Signal #2 : C:\HPCHEM\5\DATA\991117\EC111707.D\EC111B07.D
Acq On : 17 Nov 99 10:06 PM Operator: MBROWN
Sample : 9911025-3 100X Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 18 7:59 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
		System Monitoring Compounds							
1)	S	Tetrachloro-m-xylene	8.05	8.05	13444	15355	N.D.	N.D.	
					Recovery	=	0.00%	0.00%	
22)	S	Decachlorobiphenyl	0.00	0.00	0	0	N.D.	N.D.	
					Recovery	=	0.00%	0.00%	
		Target Compounds							
2)	T	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	MT	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.	
4)	MT	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
5)	MT	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
6)	T	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	T	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
8)	T	Heptachlor Epoxide	12.40	0.00	64535	0	2.31	N.D.	#
9)	T	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.	
10)	T	gamma-Chlordane	0.00	12.93	0	56327	N.D.	1.84	#
11)	T	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
12)	T	4,4'-DDE	13.17	13.70	823492	756759	29.88	32.28	
13)	MT	Dieldrin	0.00	14.25f	0	17215	N.D.	0.17	#
14)	MT	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	T	4,4'-DDD	14.81	15.44	87537	93258	4.82	5.11	
16)	T	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	MT	4,4'-DDT	15.68	16.31	1281936	1063774	49.30	55.40	
18)	T	Endrin Aldehyde	16.50	0.00	17108	0	N.D.	N.D.	
19)	T	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
20)	T	Endosulfan Sulfate	0.00	0.00	0	0	N.D.	N.D.	
21)	T	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.	
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.	
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.	
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.	
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.	
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.	
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.	
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.	
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.	

DF = 100

11/18/99 MB

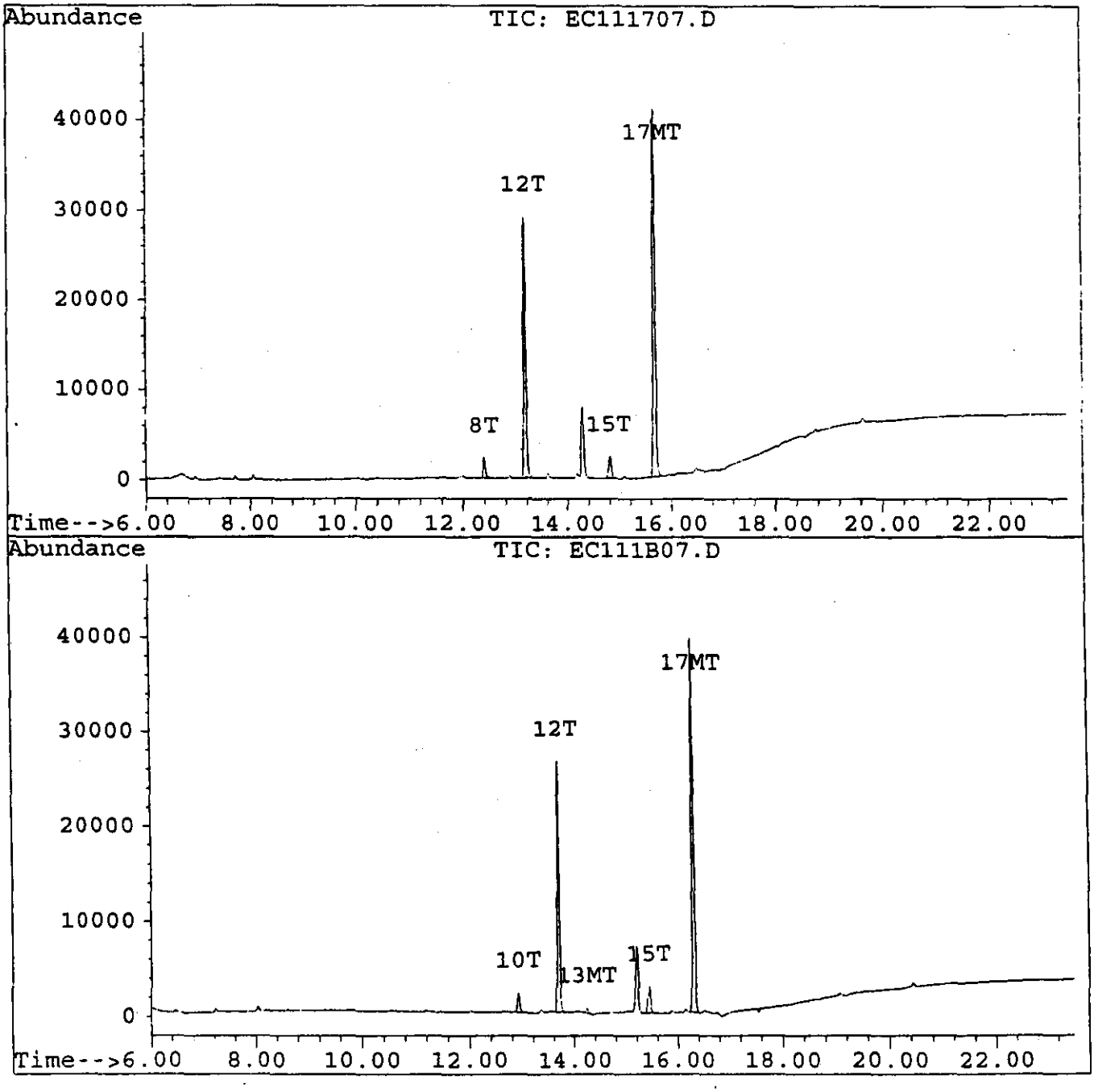
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991117\EC111707.D Vial: 7
Signal #2 : C:\HPCHEM\5\DATA\991117\EC111707.D\EC111B07.D
Acq On : 17 Nov 99 10:06 PM Operator: MBROWN
Sample : 9911025-3 100X Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 18 7:59 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um



Raw Data Quality Control Samples

Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111629.D Vial: 29
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111629.D\EC111B29.D
Acq On : 17 Nov 99 00:55 AM Operator: MBROWN
Sample : EX991110-5LCS Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 17 10:25 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylene	8.05	8.05	1480545	1276025	51.07	56.10
					Recovery	=	102.14%	112.20%
22)	S	Decachlorobiphenyl	19.64	20.44	974409	808130	39.90	41.27
					Recovery	=	79.80%	82.54%
		Target Compounds						
2)	T	alpha-BHC	9.21	9.31	1424612	1248400	40.11	43.33
3)	MT	gamma-BHC (Lindane)	9.83	9.99	1347255	1165794	40.82	43.45
4)	MT	Heptachlor	10.71	10.80	1334866	1164630	41.93	43.22
5)	MT	Aldrin	11.25	11.39	1192110	1033730	42.98	45.59
6)	T	beta-BHC	9.99	10.14	757185	649738	46.07	45.23
7)	T	delta-BHC	10.33	10.68	1169539	1013996	47.19	51.49
8)	T	Heptachlor Epoxide	12.44	12.52	1246779	1109240	43.40	45.57
9)	T	Endosulfan I	13.35	13.43	1093708	1003546	38.24	40.43
10)	T	gamma-Chlordane	12.71	12.94	1302419	1144430	44.57	46.95
11)	T	alpha-Chlordane	13.01	13.29	1271027	1127822	43.22	45.48
12)	T	4,4'-DDE	13.17	13.71	1163803	1043395	41.82	44.35
13)	MT	Dieldrin	13.97	14.16	1221080	1119547	41.47	44.34
14)	MT	Endrin	14.63	15.08	801173	710949	36.96	38.57
15)	T	4,4'-DDD	14.81	15.46	989556	902624	42.48	45.61
16)	T	Endosulfan II	15.34	15.74	1072437	947831	40.88	43.57
17)	MT	4,4'-DDT	15.68	16.32	984794	795682	37.81	41.43
18)	T	Endrin Aldehyde	16.46	16.60	888537	758797	38.34	40.75
19)	T	Methoxychlor	16.88	17.76	498888	439206	37.54	38.13
20)	T	Endosulfan Sulfate	17.38	17.19	745113	674718	42.45	44.37
21)	T	Endrin Ketone	17.90	18.16	1149072	910208	47.67	49.54
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.

11/17/99 MB

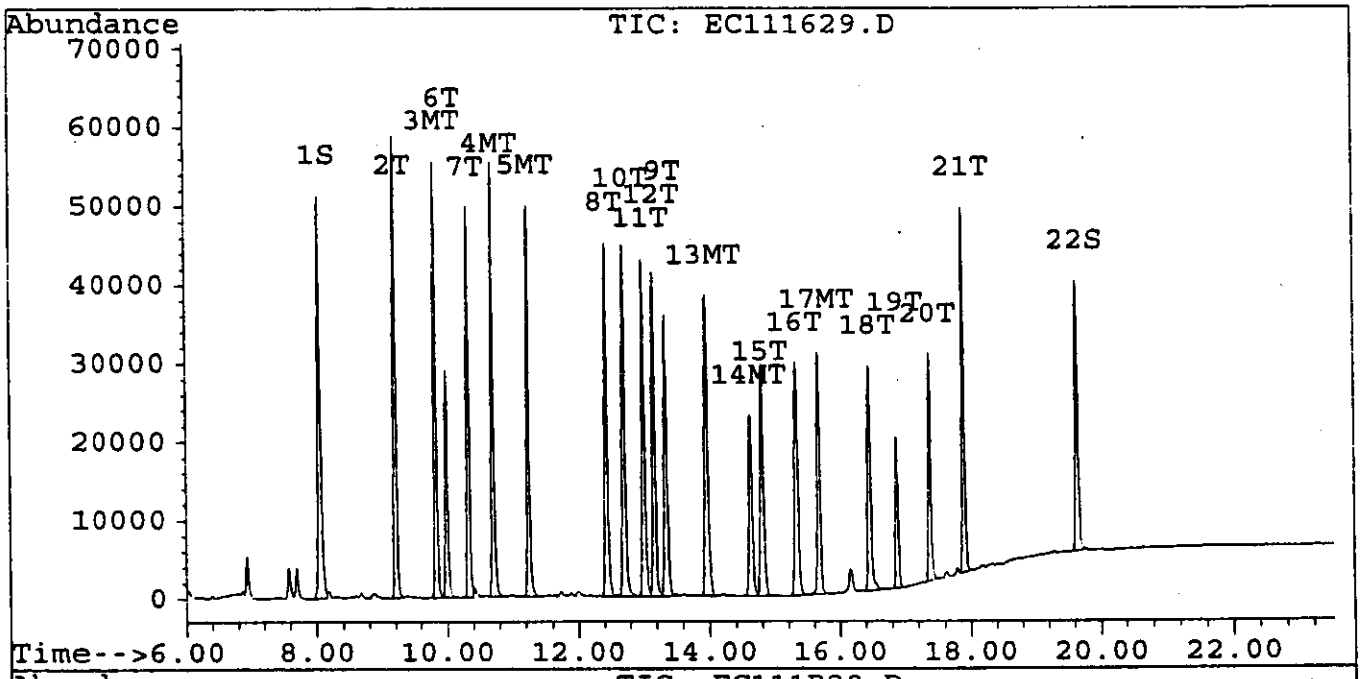
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

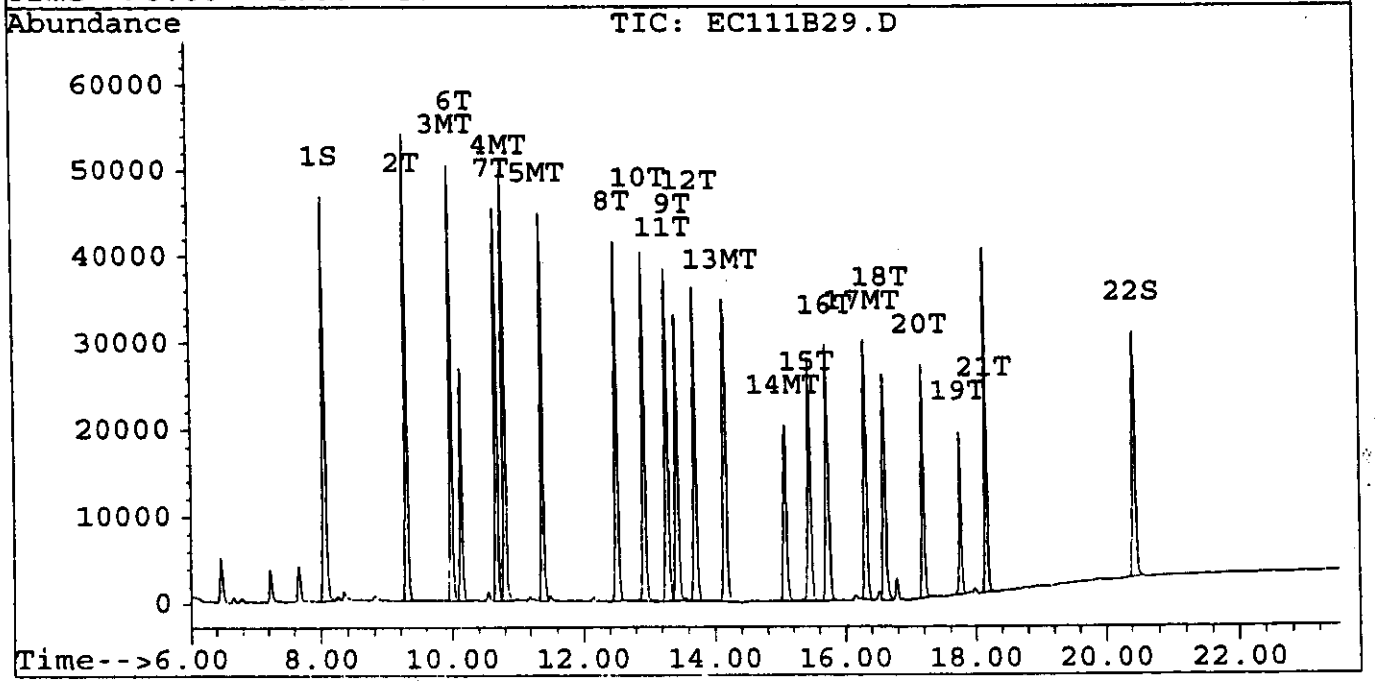
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111629.D Vial: 29
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111629.D\EC111B29.D
Acq On : 17 Nov 99 00:55 AM Operator: MBROWN
Sample : EX991110-5LCS Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 17 10:25 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um





Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111630.D Vial: 30
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111630.D\EC111B30.D
Acq On : 17 Nov 99 01:25 AM Operator: MBROWN
Sample : EX991110-5LCSD Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 17 10:25 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylene	8.06	8.06	1476050	1302702	50.91	57.32
					Recovery	=	101.82%	114.64%
22)	S	Decachlorobiphenyl	19.65	20.44	957918	798788	39.10	40.69
					Recovery	=	78.20%	81.38%
		Target Compounds						
2)	T	alpha-BHC	9.21	9.31	1428964	1251669	40.23	43.44
3)	MT	gamma-BHC (Lindane)	9.83	9.99	1346966	1168130	40.81	43.54
4)	MT	Heptachlor	10.71	10.80	1351475	1166434	42.46	43.29
5)	MT	Aldrin	11.25	11.39	1196628	1033105	43.14	45.56
6)	T	beta-BHC	10.00	10.14	752302	653923	45.78	45.52
7)	T	delta-BHC	10.34	10.68	1163268	1013621	46.95	51.47
8)	T	Heptachlor Epoxide	12.45	12.52	1234463	1112574	42.97	45.71
9)	T	Endosulfan I	13.36	13.44	1087924	993464	38.03	40.02
10)	T	gamma-Chlordane	12.72	12.94	1293249	1138515	44.25	46.70
11)	T	alpha-Chlordane	13.02	13.29	1262290	1122277	42.92	45.25
12)	T	4,4'-DDE	13.18	13.71	1155070	1035799	41.51	44.03
13)	MT	Dieldrin	13.97	14.16	1210288	1113414	41.11	44.09
14)	MT	Endrin	14.64	15.08	757751	662814	35.02	36.00
15)	T	4,4'-DDD	14.82	15.46	979639	881892	42.07	44.57
16)	T	Endosulfan II	15.35	15.74	1063405	939040	40.54	43.16
17)	MT	4,4'-DDT	15.69	16.32	969774	797724	37.23	41.54
18)	T	Endrin Aldehyde	16.46	16.60	885597	765394	38.19	41.14
19)	T	Methoxychlor	16.88	17.76	493756	440575	37.03	38.29
20)	T	Endosulfan Sulfate	17.39	17.19	731908	662915	41.69	43.58
21)	T	Endrin Ketone	17.90	18.16	1147843	907764	47.62	49.40
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.

11/17/99

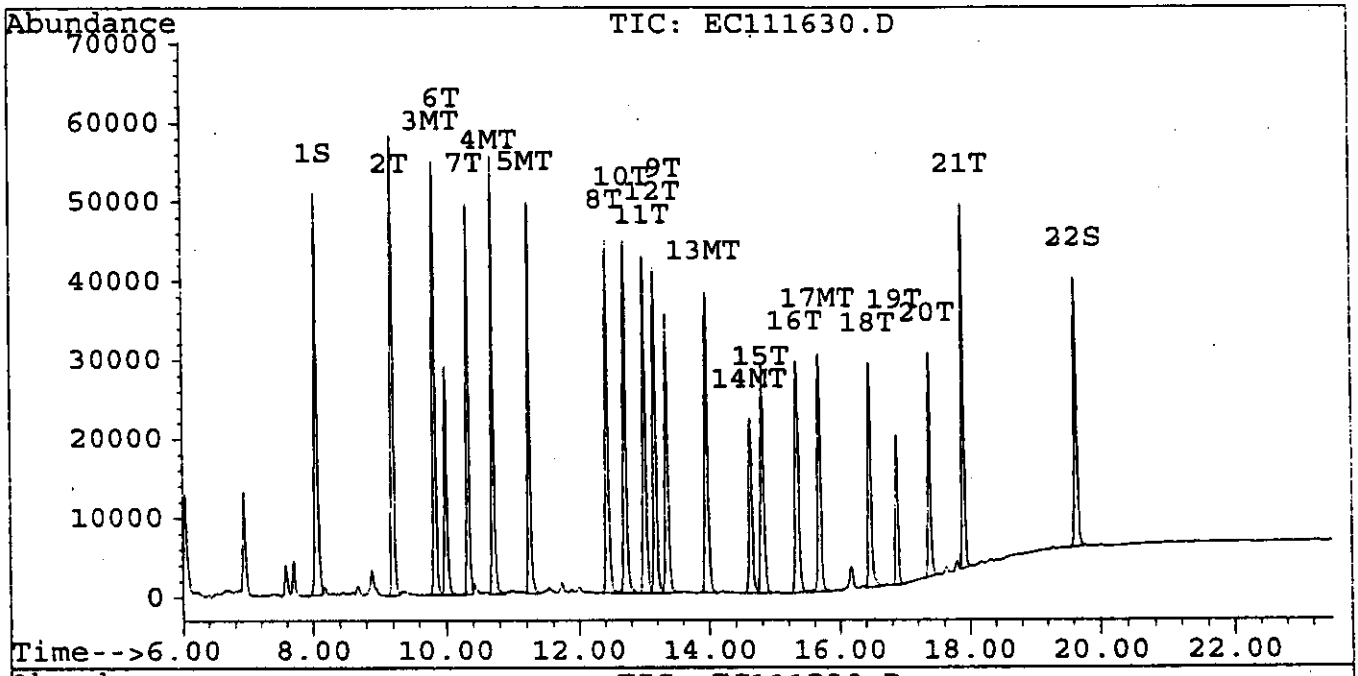
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

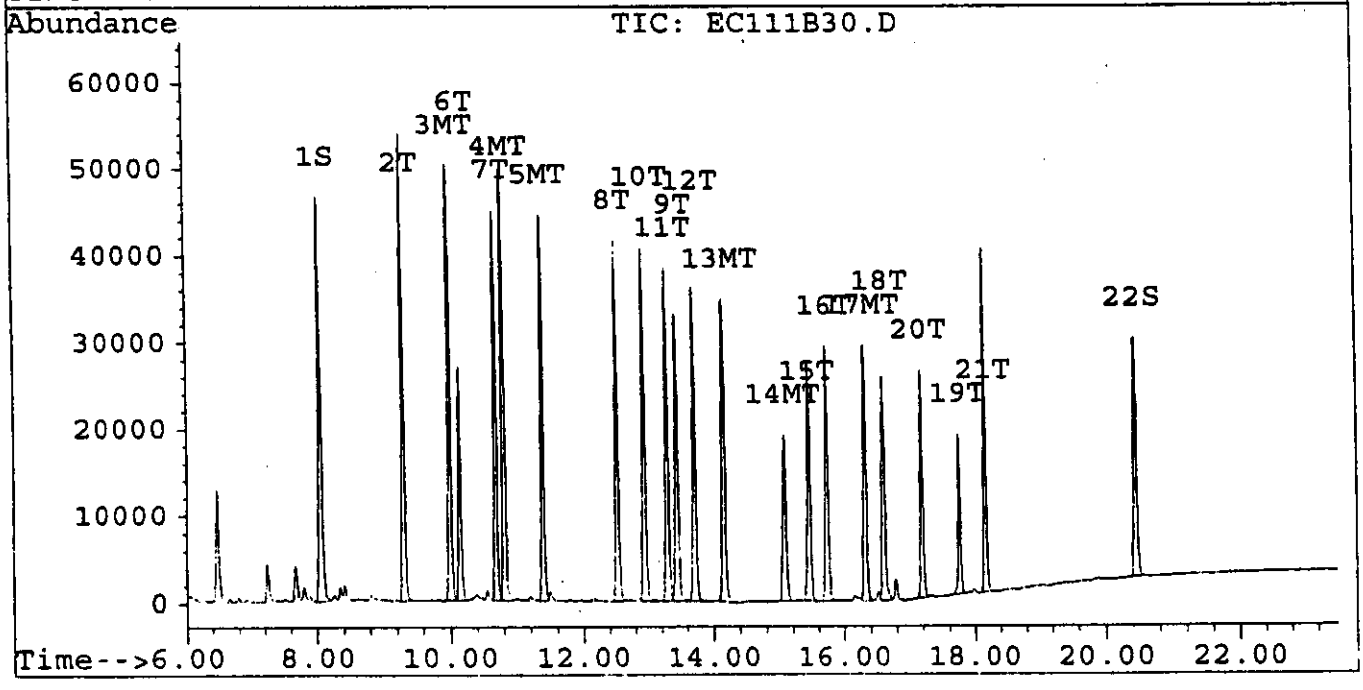
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111630.D Vial: 30
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111630.D\EC111B30.D
Acq On : 17 Nov 99 01:25 AM Operator: MBROWN
Sample : EX991110-5LCSD Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 17 10:25 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um





Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111634.D Vial: 34
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111634.D\EC111B34.D
Acq On : 17 Nov 99 03:27 AM Operator: MBROWN
Sample : 9911025-3MS Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 17 10:27 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
		System Monitoring Compounds							
1)	S	Tetrachloro-m-xylene	8.05	8.05	1496123	1297793	51.62	57.10	
					Recovery	=	103.24%	114.20%	
22)	S	Decachlorobiphenyl	19.65	20.44	968645	782071	39.62	39.65	
					Recovery	=	79.24%	79.30%	
		Target Compounds							
2)	T	alpha-BHC	9.21	9.30	1457321	1290724	41.00	44.78	
3)	MT	gamma-BHC (Lindane)	9.83	9.99	1354294	1204696	41.03	44.90	
4)	MT	Heptachlor	10.71	10.80	1411633	1226527	44.36	45.56	
5)	MT	Aldrin	11.25	11.38	1204542	1066063	43.43	47.00	
6)	T	beta-BHC	10.00	10.14	718808	626397	43.74	43.61	
7)	T	delta-BHC	10.33	10.68	1111093	1019073	44.87	51.75	
8)	T	Heptachlor Epoxide	12.40	12.52	7734695	1133765	268.85	46.59	#
9)	T	Endosulfan I	13.36	13.43	1216093	1128383	42.51	45.47	
10)	T	gamma-Chlordane	12.72	12.93	1295262	6189207	44.32	256.09	#
11)	T	alpha-Chlordane	13.02	13.28	1343681	1111544	45.72	44.82	
12)	T	4,4'-DDE	13.18	13.70	93281746	70262033	3272.42	2960.16	
13)	MT	Dieldrin	13.97	14.16	1302560	1142379	44.17	45.25	
14)	MT	Endrin	14.64	15.08	1019238	860466	46.69	46.58	
15)	T	4,4'-DDD	14.82	15.45	8034175	7720162	336.63	386.74	
16)	T	Endosulfan II	15.34	15.74	1155376	1109578	44.01	51.13	
17)	MT	4,4'-DDT	15.70	16.33	132.8E6	105.3E6	5137.05	5485.90	E
18)	T	Endrin Aldehyde	16.46	16.60	743836	686852	31.38	36.55	
19)	T	Methoxychlor	16.88	17.76	585779	558759	46.09	52.82	
20)	T	Endosulfan Sulfate	17.39	17.19	787433	638980	44.85	41.96	
21)	T	Endrin Ketone	17.90	18.16	1029797	997214	42.65	54.35	#
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.	
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.	
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.	
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.	
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.	
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.	
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.	
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.	
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.	

11/17/99

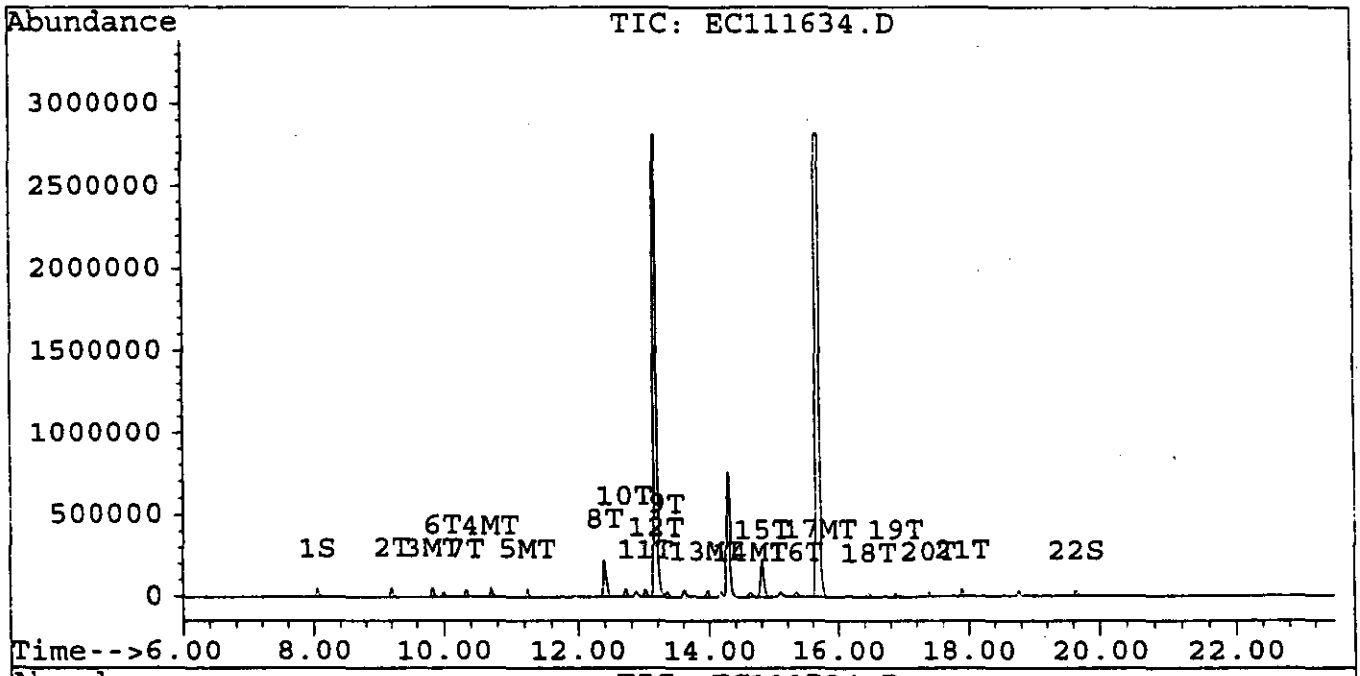
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

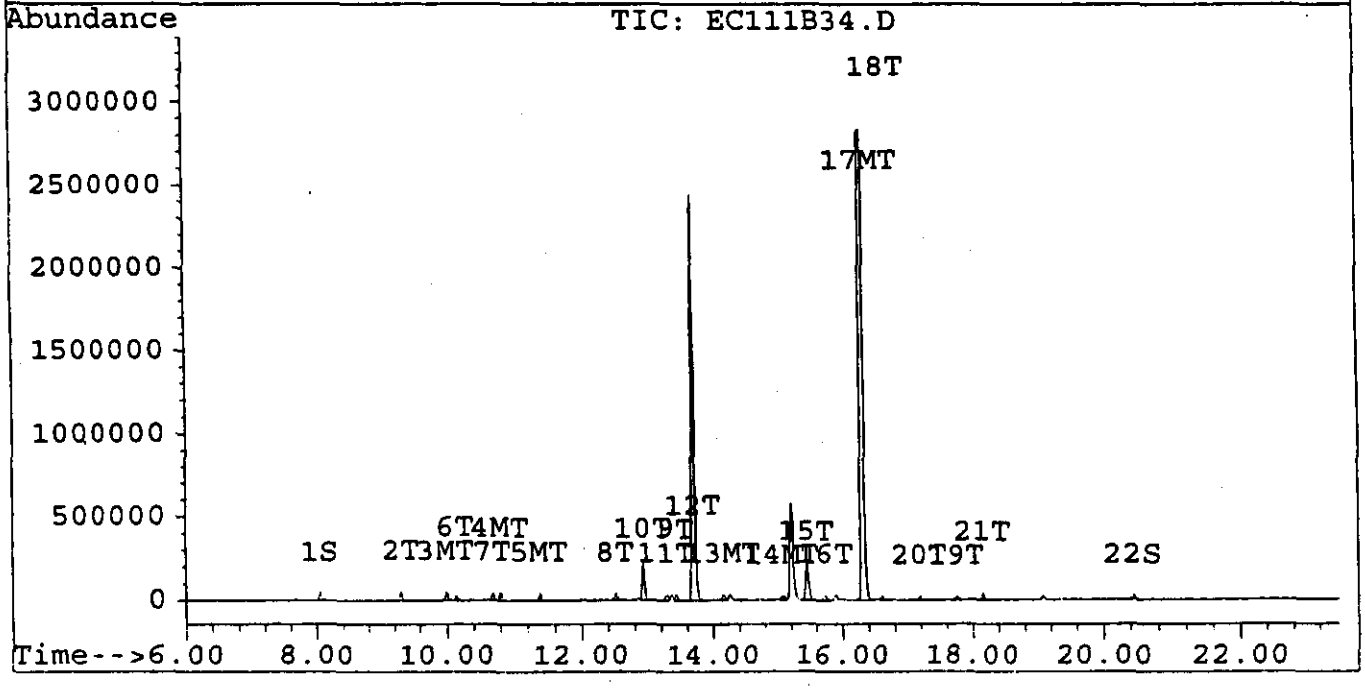
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111634.D Vial: 34
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111634.D\EC111B34.D
Acq On : 17 Nov 99 03:27 AM Operator: MBROWN
Sample : 9911025-3MS Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 17 10:27 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um





Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111635.D Vial: 35
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111635.D\EC111B35.D
Acq On : 17 Nov 99 03:57 AM Operator: MBROWN
Sample : 9911025-3MSD Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 17 10:27 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
		System Monitoring Compounds							
1)	S	Tetrachloro-m-xylene	8.06	8.05	1420090	1249895	48.93	54.90	
					Recovery	=	97.86%	109.80%	
22)	S	Decachlorobiphenyl	19.65	20.44	934073	770479	37.94	38.92	
					Recovery	=	75.88%	77.84%	
		Target Compounds							
2)	T	alpha-BHC	9.21	9.30	1374122	1238165	38.73	42.98	
3)	MT	gamma-BHC (Lindane)	9.83	9.99	1284182	1163528	38.94	43.37	
4)	MT	Heptachlor	10.71	10.80	1300588	1168408	40.85	43.36	
5)	MT	Aldrin	11.25	11.38	1149243	1026332	41.46	45.26	
6)	T	beta-BHC	10.00	10.14	720237	638441	43.83	44.44	
7)	T	delta-BHC	10.34	10.68	1096517	993039	44.29	50.43	
8)	T	Heptachlor Epoxide	12.40	12.52	7411029	1107381	257.60	45.49	#
9)	T	Endosulfan I	13.36	13.43	1191212	1103615	41.64	44.47	
10)	T	gamma-Chlordane	12.72	12.93	1266102	6000123	43.32	248.25	#
11)	T	alpha-Chlordane	13.02	13.28	1307413	1089417	44.47	43.91	
12)	T	4,4'-DDE	13.18	13.70	91903541	68355137	3224.08	2879.83	
13)	MT	Dieldrin	13.97	14.16	1283470	1124357	43.54	44.53	
14)	MT	Endrin	14.64	15.08	920861	852485	42.30	46.15	
15)	T	4,4'-DDD	14.82	15.45	7343372	7131109	307.79	357.26	
16)	T	Endosulfan II	15.34	15.74	1056618	989810	40.28	45.53	
17)	MT	4,4'-DDT	15.70	16.33	120.1E6	94744740	4643.25	4936.19	E
18)	T	Endrin Aldehyde	16.46	16.60	698286	652723	29.18	34.55	
19)	T	Methoxychlor	16.88	17.76	561636	470447	43.71	41.97	
20)	T	Endosulfan Sulfate	17.39	17.19	761781	609829	43.39	39.98	
21)	T	Endrin Ketone	17.90	18.16	999622	814426	41.38	44.24	
23)		Toxaphene	0.00	0.00	0	0	N.D.	N.D.	
24)		Technical Chlordane	0.00	0.00	0	0	N.D.	N.D.	
25)		Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.	
26)		Aroclor-1221	0.00	0.00	0	0	N.D.	N.D.	
27)		Aroclor-1232	0.00	0.00	0	0	N.D.	N.D.	
28)		Aroclor-1242	0.00	0.00	0	0	N.D.	N.D.	
29)		Aroclor-1248	0.00	0.00	0	0	N.D.	N.D.	
30)		Aroclor-1254	0.00	0.00	0	0	N.D.	N.D.	
31)		Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.	

11/17/99 MB

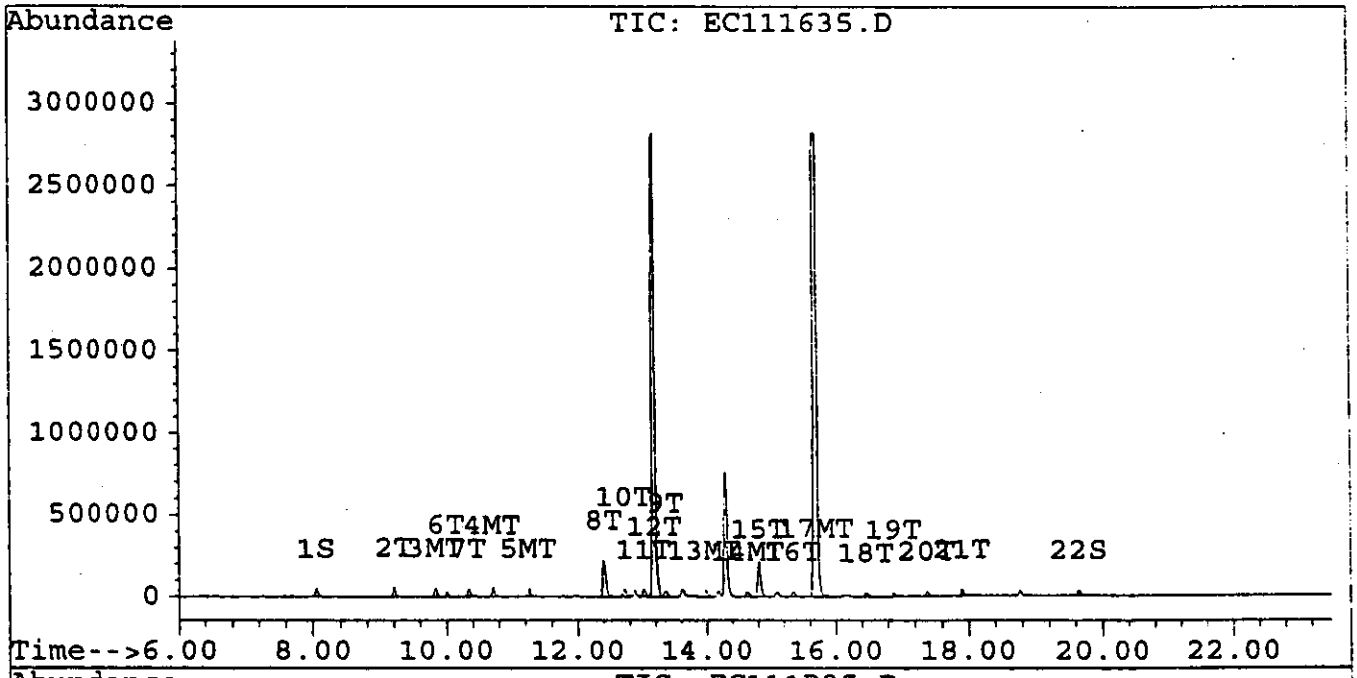
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

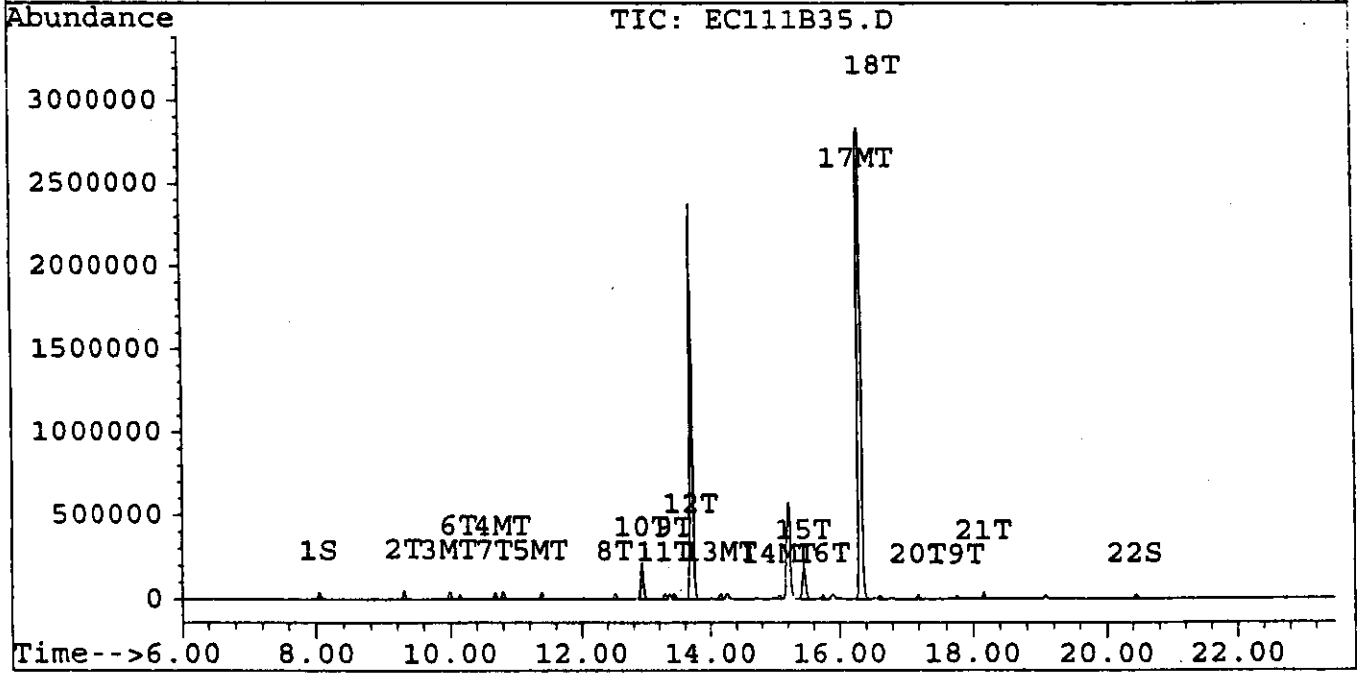
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\991116\EC111635.D Vial: 35
Signal #2 : C:\HPCHEM\5\DATA\991116\EC111635.D\EC111B35.D
Acq On : 17 Nov 99 03:57 AM Operator: MBROWN
Sample : 9911025-3MSD Inst : ECD4
Misc : Multiplr: 1.00
Quant Time: Nov 17 10:27 1999

Method : C:\HPCHEM\5\METHODS\OC111699.M
Title :
Last Update : Tue Nov 16 14:22:24 1999
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticidesII
Signal #1 Info : 30m x .32mm x .50 Signal #2 Info : 30m x .32mm x .25um





Miscellaneous

187104A

VALIDATED

Paragon Analytics, Inc.

SEMIVOLATILES EXTRACTION WORKSHEET

Work Order Nos. 99-11-025 Technician BH Matrix: AQ (Solid) Other Balance ID E #3 Set Up Date / Time 11/10/99 1400

Batch ID 991110-5 Extraction C 03 Pest&1CB 8081 Pest Only 8082/PCB 608/Pest 8081/TCLP Pest Method: CLE Sox Sep Son WDilute

SOP/Rev Surrogate C A 59 Matrix Spike Code MS 59-17

Sample No.	Amount (g / mL)	pH	Sol	Surrogate (g / Wt)	Matrix Spik (mL)	Matrix Spike Spike / Wt	Date Time	EXTRACT Date KD	Date Hexane Exchange	Typical Clean up	Final Volume (mL)	Date Vialed	Comments
5M13	30	N/A	1		—	—		11/10/99	11/11/99	Florisil	10 mL	11/10/99	
025-1													
-2													
-3													
5LCS					1 mL	3ml							
5LCSD													
025-3MS													Different color fibers -3/-3MSD noticed
025-3MSD													

Solvent Lots: MeCl 39246 202 Reviewed by / Date

Form 626R5.frm (10/20/99)

Percent Moisture

Method SOP642

Lab Name: Paragon Analytics, Inc.

Date Extracted: 11-Nov-99
Date Analyzed: 12-Nov-99
Analyst: Jacob Gruzalski

Validated By: egk
Validation Date: 19-Nov-99
Validation Time: 10:27 AM

Run ID	Prep Batch ID	QC Batch ID	Lab ID	QC Type	Dish Wt	Wet Wt	Dry Wt	Dish Wt-Dry Wt	Percent Moisture	Percent Solids
EX991111-9A	EX991111-9	EX991111-9-1	9911025-1	SMP	1.28	10.77	11.52	10.2	4.9	95.1
EX991111-9A	EX991111-9	EX991111-9-1	9911025-2	SMP	1.28	11.46	12.18	10.9	4.9	95.1
EX991111-9A	EX991111-9	EX991111-9-1	9911025-3	SMP	1.3	13.97	14.67	13.4	4.3	95.7
EX991111-9A	EX991111-9	EX991111-9-1	EX991111-9	MB	1.29	1.29	1.29	0.0	100.0	0.0

QC Types

DUP	Laboratory Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MB	Method Blank
MS	Laboratory Matrix Spike
MSD	Laboratory Matrix Spike Duplicate
SMP	Field Sample

Comments:

DUP = Sample Duplicate
Wet Wt = Sample Wet Wt - Dish Wt
Dry Wt = Sample Dry Wt + Dish Wt
Dish Wt - Dry Wt = Sample Dry Wt - Dish Wt
All weight values shown above are expressed in grams.

Paragon Analytics Inc.

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