211038

RECEIVED
JUL 23 1997

Industrial Corrosion Management, Inc.
1152 Route 10
Randolph, New Jersey 07869
FAX #: 201-584-0514
Telephone #: 201-584-0330

CLIENT: ROY F. WESTON, Inc.

PROJECT: RFP No. 1970

SDG #: CDE01

Organic Data Package

Volume I

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Industrial Corrosion Management, Inc.
CITY/STATE Randolph, NJ

CASE NO. _____ SDG NO. CDE-01 SDG NOS. TO FOLLOW _____
SAS NO. —

CONTRACT NO. _____
SOW NO. ILM03.1

RECEIVED JUL 23 1997

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

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

CASE NO. _____ SDG NO. CDE-01 SDG NOS. TO FOLLOW _____
SAS NO. _____

RECEIVED JUL 23 1997 LAB EPA

	PAGE NOs FROM	TO	CHECK	
5. Semivolatiles Data				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II SV)	NA	NA	NA	
MS/MSD Summary (Form III SV)				
Method Blank Summary (Form IV SV)				
GC/MS Instrument Performance Check (Form V SV)				
Internal Standard Area and RT Summary (Form VIII SV)				
b. Sample Data				
TCL Results (Form I SV-1, SV-2)				
Tentatively Identified Compounds (Form I SV-TIC)				
Reconstructed total ion chromatograms (RIC) for each sample				
For each sample:				
Raw spectra and background-subtracted mass spectra of target compounds				
Quantitation reports				
Mass spectra of TICs with three best library matches				
GPC chromatograms (if GPC performed)				
c. Standards Data (All Instruments)	NA	NA		
Initial Calibration Data (Form VI SV-1, SV-2)				
RICs and Quan Reports for all Standards				
Continuing Calibration Data (Form VII SV-1, SV-2)				
RICs and Quantitation Reports for all Standards				
d. Raw QC Data				
DFTPP	NA	NA		
Blank Data				
Matrix Spike/Matrix Spike Duplicate Data				
e. Raw GPC Data				
6. Pesticides				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II PEST)	7	9	✓	
MS/MSD Duplicate Summary (Form III PEST)	10	11	✓	
Method Blank Summary (Form IV PEST)	12	13		

CASE NO. _____ SDG NO. CDE-01 SDG NOS. TO FOLLOW _____
_____ _____ SAS NO. _____

	PAGE NOs FROM	TO	CHECK LAB	EPA
Pesticides (Cont.)				
b. Sample Data	14	162		
TCL Results - Organic Analysis Data Sheet (Form I PEST)			✓	
Chromatograms (Primary Column)			✓	
Chromatograms from second GC column confirmation			✓	
GC Integration report or data system printout			✓	
Manual work sheets			✓	
For pesticides/Aroclors confirmed by GC/MS, copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)			✓	
c. Standards Data	163	497		
Initial Calibration of Single Component Analytes (Form VI PEST-1 and PEST-2)			✓	
Initial Calibration of Multicomponent Analytes (Form VI PEST-3)			✓	
Analyte Resolution Summary (Form VI PEST-4)			✓	
Performance Evaluation Mixture (Form VI PEST-5)			✓	
Individual Standard Mixture A (Form VI PEST-6)			✓	
Individual Standard Mixture B (Form VI PEST-7)			✓	
Calibration Verification Summary (Form VII PEST-1)			✓	
Calibration Verification Summary (Form VII PEST-2)			✓	
Analytical Sequence (Form VIII PEST)			✓	
Florisil Cartridge Check (Form IX PEST-1)			✓	
Pesticide GPC Calibration (Form IX PEST-2)			✓	
Pesticide Identification Summary for Single Component Analytes (Form X PEST-1)			✓	
Pesticide Identification Summary for Multicomponent Analytes (Form X PEST-2)			✓	
Chromatograms and data system printouts A printout of retention times and corresponding peak areas or peak heights			✓	
d. Raw QC Data				
Blank Data	498	531	✓	
Matrix Spike/Matrix Spike Duplicate Data	532	557	✓	

CASE NO.	SDG NO. CDE-01	SDG NOS. TO FOLLOW N/A
	SAS NO.	

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. Pesticides (Cont.)				
e. Raw GPC Data	558	575	✓	
f. Raw Florisil Data	567	589	✓	
7. Miscellaneous Data				
Original preparation and analysis forms or copies of preparation and analysis logbook pages	590	602	✓	
Internal sample and sample extract transfer chain-of-custody records	NA	NA	NA	
Screening records	NA	NA	NA	
All instrument output, including strip charts from screening activities (describe or list)				
Methodology Summary	5	5	✓	
	—	—	—	
8. EPA Shipping/Receiving Documents				
Airbills (No. of shipments ___)	NA	NA	NA	
Chain-of-Custody Records	1	3	✓	
Sample Tags			NA	
Sample Log-In Sheet (Lab & DCI)	NA	NA	NA	
Miscellaneous Shipping/Receiving Records (describe or list)				
Internal Chain of Custody	4	4	✓	
	—	—	—	
9. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	—	—	—	
	—	—	—	
10. Other Records (describe or list)				
Telephone Communication Log	NA	NA	NA	
	—	—	—	
	—	—	—	

ORGANICS-COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. _____ SDG NO. CDE-01 SDG NOS. TO FOLLOW _____
_____ _____ SAS NO. _____

11. Comments: _____

Completed by: Robin Jetter (Signature) Robin Jetter / DCO (Printed Name/Title) 7/23/97 (Date)
(CLP Lab)

Verified by: Susan Stanley (Signature) Susan Stanley / DCO (Printed Name/Title) 7/23/97 (Date)
(CLP Lab)

Audited by: _____ (Signature) _____ (Printed Name/Title) _____ (Date)
(EPA)

FORM DC-2-5

OLM03.

CHAIN OF CUSTODY RECORD

RFP No.: 1970

PO No.: 81623

WESTON. MANAGERS DESIGNERS/CONSULTANTS

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019
Phone: 908-225-6116 Fax: 908-225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HN03
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II START
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #)	RAS ANALYSIS VOA	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS CIN	COR	REAC	OTHER
CDE-001	6/26/97 1205	5	L	G	6				X			266311			Total Pb, Cd
CDE-002	6/26/97 1205	5	L	G	6				X			266312			
CDE-003	6/26/97 1215	5	L	G	6				X			266313			
CDE-004	6/26/97 ~~1225~~ 1226	5	L	G	6				X			266314			
CDE-005	6/26/97 1238	5	L	G	6				X			266315			
CDE-005MS	6/26/97 1238	5	L	G	6				X			~~266316~~			
CDE-005MSD	6/26/97 1238	5	L	G	6				X			~~266317~~			
CDE-006	6/26/97 1256	5	L	G	6				X			266318			
CDE-007	6/26/97 1300	5	L	G	6				X			266319			
CDE-008	6/26/97 1310	5	L	G	6				X			266320			
CDE-009	6/26/97 1322	5	L	G	6				X			266321			

Comments:

Person Assuming Responsibility for Sample:	Time	Date (MM/DD/YY)
M. Mahnkopf	1130	6/27/97

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
All	M. Mahnkopf	1545	6/27/97	[signature]	Transfer to Lab
Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
all	[signature]	1830	6/27/97	Paul [illegible]	Receipt at Lab 3.1°C
Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

RFP No.: 1970

PO No.: 81623

CHAIN OF CUSTODY RECORD

WESTON. MANAGERS DESIGNERS/CONSULTANTS

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019
Phone: 908-225-6116 Fax: 908-225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HN03
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II START
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #)	RAS ANALYSIS VOA	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS IGN	COR	REAC	OTHER
CDE-010	6/26/97 1330	5	L	G	6				X			266327			20 Total Pb, Cd
CDE-011	6/26/97 1337	5	L	G	6				X			266323			21
CDE-012	6/26/97 1402	5	L	G	6				X			266324			22
CDE-013	6/26/97 1414	5	L	G	6				X			266325			23
CDE-014	6/26/97 1430	5	L	G	6				X			266328			24
CDE-015	6/26/97 1440	5	L	G	6				X			266327			25
CDE-016	6/27/97 1000	5	L	G	6				X			266328			26
CDE-017	6/27/97 1007	5	L	G	6				X			266327			
CDE-018	6/27/97 1040	5	L	G	6				X			266328			
CDE-019	6/27/97 1055	5	L	G	6				X			266327			
CDE-020	6/27/97 1110	5	L	G	6				X			266330			

Comments:

Person Assuming Responsibility for Sample:	Time	Date (MM/DD/YY)
M. Mahnkopf	1130	6/27/97

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
All	M. Mahnkopf	1545	6/27/97	[illegible signature]	Transfer to Lab
All	[illegible signature]	1850	6/27/97	[illegible signature]	Receipt at lab 3.1°C

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

RFP No.:
1970
PO No.:
81623

CHAIN OF CUSTODY RECORD

WESTON
MANAGERS DESIGNERS/CONSULTANTS

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019
Phone: 908-225-6116 Fax: 908-225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HN03
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II START
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #s)	RAS ANALYSIS VOA	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS IGN	COR	REAC	OTHER
DE-021	6/27/97 1115	5	L	G	6				X			266331			Total Pb, Cd

Comments:

Person Assuming Responsibility for Sample:	Time	Date (MM/DD/YY)
M. Makukof	1130	6/27/97

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
All	M. Makukof	1545	6/27/97	[illegible]	Tranfer to Lab
All	[illegible]	1850	6/27/97	Paul [illegible]	Receipt at Lab 3.1°C

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

ICM Laboratories, Inc.
Internal Chain-of-Custody

LINK: 266311-266331

Account number: WA2513 ROY F. WESTON, INC.
Project: 1970
Tier Level: Reduced 2

Laboratory Person Breaking Seal on Shuttle: [illegible]

Title: Lab Tech

Lab Number	Relinq. By	Recd. By	Date	Time	Reason for Transfer	Aliquot ID
all	RS	[illegible]	06/27/97	2100	STORAGE	ALL
ALL	[illegible]	[illegible]	7/1/97	1000	PCB	(ALL) SU1 / (3/5) SU2 SU3
ALL	[illegible]	[illegible]	7/3/97	1240	STORAGE	(ALL) SU1 / (3/5) SU2 SU3
ALL	[illegible]	[illegible] 7/3 MJ	7/3/97	1245	METALS	(ALL) SU1 / (B/5) SU2 SU3
ALL	[illegible] 7/3 MJ	[illegible]	7/3/97	7/3 1455	STORAGE	(ALL) SU1 / (B/5) SU2 SU3
ALL	[illegible]	[illegible]	7/3/97	1500	PCB	(ALL) SU1 / (B/5) SU2 SU3
ALL	[illegible]	[illegible]	7/8/97	1600	STORAGE	(ALL) SU1 / (B/5) SU2 SU3
266329	[illegible]	MJ	7/16/97	1550	METALS	SU1
266329	MJ	[illegible]	7/16/97	1845	STORAGE	SU1

METHODOLOGY SUMMARY

SOILS:

Pesticides/PCBs: REFERENCE-USEPA CLP SOW for Organic Analysis, Multi-Media, Multi-Conc., OLM03.1, 8/94. Approximately 30 grams of sediment is mixed with sodium sulfate and extracted three times with 1:1 acetone/methylene chloride using an ultrasonic probe. The extracts are combined, concentrated and subject to GPC clean up. The extract is then solvent exchanged to hexane, cleaned up by Florisil cartridge and adjusted to a final volume of 2.0 ml. The extract is then analyzed by GC.

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, New Jersey 07869
201-584-0330

SDG No. CDE-01

Samples: 266311 - 266331

NONCONFORMANCE SUMMARY

This project is only for PCB's, although the forms reflect pesticide results as undetected, they were not analyzed for and do not appear on the quanitation reports.

Pesticide/PCB:

1) Columns : a) J & W Scientific, DB608, 30m x 0.53 mm, 0.83 film thickness
b) J & W Scientific, DB1701, 30 m x 0.53 mm, 1.0 film thickness

2) Symbols used on Pesticide/PCB quantitation reports:

OW = Outside of retention window
NC = Not confirmed by secondary column
<CRQL = Less than Contract Required Quantitation Limit
<0.5 CRQL = Less than one half the Contract Required Quantitation Limit
NP = No Pattern present

3) The following compounds had Matrix Spike/Matrix Spike Duplicate recoveries outside QC limits, for sample CDE05: gamma-BHC (45 and 45%). For sample CDE04: gamma-BHC (42 and 45%). As per the SOW no further action was required.

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

Richard S. Levine (MC) 7/23/97

Richard S. Levine
President

Date

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PIBLK01	80	83	94	126			0
02	PIBLK02	100	102	94	108			0
03	PIBLK03	91	89	88	115			0
04	PIBLK04	94	95	88	96			0
05	PIBLK05	91	89	86	95			0
06	PIBLK01	85	87	99	95			0
07	PIBLK02	98	98	93	80			0
08	PIBLK03	103	102	95	90			0
09	PIBLK04	99	97	87	94			0
10								
11								
12								
13								
14								
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21								
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24								
25								
26								
27								
28								
29								
30								

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM II PEST-1 OLM03.0

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK94	49	47	47	51			0
02	PBLK00	53	49	49	55			0
03	CDE04MS	47	45	42	46			0
04	CDE04MSD	50	48	46	52			0
05	CDE04	46	43	44	48			0
06	CDE01	49	51	51	79			0
07	CDE02	47	51	47	58			0
08	CDE10	51	49	55	60			0
09	CDE06	50	47	51	58			0
10	CDE07	47	46	54	65			0
11	CDE08	50	49	54	65			0
12	CDE09	51	49	47	70			0
13	CDE03	52	51	46	52			0
14	CDE19	54	45	45	43			0
15	CDE16	53	53	47	61			0
16	CDE18	54	51	53	71			0
17	CDE13	60	48	55	83			0
18	CDE15	58	60	62	54			0
19	CDE20	55	50	56	53			0
20	CDE11	66	53	55	90			0
21	CDE14	73	53	48	112			0
22	CDE17	42	44	28 *	53			1
23	CDE21	65	50	44	91			0
24	CDE12	110	64	57	85			0
25	CDE05	51	46	46	38			0
26	CDE05MS	50	46	53	112			0
27	CDE05MSD	51	46	47	31			0
28	CDE02 DL	46	59	57	56			0
29	CDE01 DL	49	56	61	62			0
30	CDE07 DL	49	48	68	69			0

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	CDE08 DL	55	56	67	84			0
02	CDE10 DL	52	55	69	74			0
03	CDE15 DL	59	65	64	90			0
04								
05								
06								
07								
08								
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17								
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20								
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22								
23								
24								
25								
26								
27								
28								
29								
30								

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix Spike - EPA Sample No.: CDE04 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	21.00	.00	8.90	42 *	46-127
Heptachlor	21.00	.00	9.40	45	35-130
Aldrin	21.00	.00	9.30	44	34-132
Dieldrin	41.00	.00	20.00	49	31-134
Endrin	41.00	.00	23.00	56	42-139
4,4'-DDT	41.00	.00	25.00	61	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	21.00	9.40	45 *	7	50	46-127
Heptachlor	21.00	10.00	48	6	31	35-130
Aldrin	21.00	10.00	48	9	43	34-132
Dieldrin	41.00	21.00	51	4	38	31-134
Endrin	41.00	25.00	61	9	45	42-139
4,4'-DDT	41.00	28.00	68	11	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 2 out of 12 outside limits

COMMENTS:

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix Spike - EPA Sample No.: CDE05 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	19.00	.00	8.60	45 *	46-127
Heptachlor	19.00	.00	9.10	48	35-130
Aldrin	19.00	.00	10.00	53	34-132
Dieldrin	37.00	.00	21.00	57	31-134
Endrin	37.00	.00	43.00	116	42-139
4,4'-DDT	37.00	.00	38.00	103	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	19.00	8.50	45 *	0	50	46-127
Heptachlor	19.00	8.70	46	4	31	35-130
Aldrin	19.00	9.90	52	2	43	34-132
Dieldrin	37.00	20.00	54	5	38	31-134
Endrin	37.00	41.00	111	4	45	42-139
4,4'-DDT	37.00	47.00	127	21	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 2 out of 12 outside limits

COMMENTS:

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK94

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: PBLK94 Lab File ID: CA0650

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

Sulfur Cleanup: (Y/N) N Date Extracted: 07/01/97

Date Analyzed (1): 07/09/97 Date Analyzed (2): 07/09/97

Time Analyzed (1): 00:04 Time Analyzed (2): 00:04

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column (1): DB-1701 ID: .53 (mm) GC Column (2): DB-608 ID: .53 (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	CDE01	266311	07/09/97	07/09/97
02	CDE02	266312	07/09/97	07/09/97
03	CDE10	266320	07/09/97	07/09/97
04	CDE06	266316	07/09/97	07/09/97
05	CDE07	266317	07/09/97	07/09/97
06	CDE08	266318	07/09/97	07/09/97
07	CDE09	266319	07/10/97	07/10/97
08	CDE03	266313	07/10/97	07/10/97
09	CDE19	266329	07/14/97	07/14/97
10	CDE16	266326	07/14/97	07/14/97
11	CDE18	266328	07/14/97	07/14/97
12	CDE13	266323	07/14/97	07/14/97
13	CDE15	266325	07/14/97	07/14/97
14	CDE20	266330	07/14/97	07/14/97
15	CDE11	266321	07/14/97	07/14/97
16	CDE14	266324	07/14/97	07/14/97
17	CDE17	266327	07/14/97	07/14/97
18	CDE21	266331	07/15/97	07/15/97
19	CDE12	266322	07/15/97	07/15/97
20	CDE05	266315	07/15/97	07/15/97
21	CDE05MS	266315	07/15/97	07/15/97
22	CDE05MSD	266315	07/15/97	07/15/97
23	CDE02 DL	266312	07/15/97	07/15/97
24	CDE01 DL	266311	07/15/97	07/15/97
25	CDE07 DL	266317	07/15/97	07/15/97
26	CDE08 DL	266318	07/15/97	07/15/97
27	CDE10 DL	266320	07/15/97	07/15/97
28	CDE15 DL	266325	07/15/97	07/15/97

COMMENTS: M35

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Form IV PEST

OLM03.0

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK00

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: PBLK00 Lab File ID: CA0655

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

Sulfur Cleanup: (Y/N) N Date Extracted: 07/02/97

Date Analyzed (1): 07/09/97 Date Analyzed (2): 07/09/97

Time Analyzed (1): 05:22 Time Analyzed (2): 05:22

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column (1): DB-1701 ID: .53 (mm) GC Column (2): DB-608 ID: .53 (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	CDE04MS	266314	07/09/97	07/09/97
02	CDE04MSD	266314	07/09/97	07/09/97
03	CDE04	266314	07/09/97	07/09/97
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: M35

Page 1 of 1

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE01

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266311

Sample wt/vol: 30.0 (g/mL) G Lab File ID: CA0666

% Moisture: 18. decanted: (Y/N) N Date Received: 06/27/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan Sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200.	U
12674-11-2	Aroclor-1016	41.	U
11104-28-2	Aroclor-1221	41.	U
11141-16-5	Aroclor-1232	41.	U
53469-21-9	Aroclor-1242	41.	U
12672-29-6	Aroclor-1248	41.	U
11097-69-1	Aroclor-1254	1900.	J
11096-82-5	Aroclor-1260	41.	U

Use this Data

FORM I PEST OLM03.0

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : H:\CA0666.D\ECD1A.CH Vial: 4
Signal #2 : H:\CA0666.D\ECD2B.CH
Acq On : 9 Jul 97 19:11 Operator:
Sample : 266311 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 17 17:53 1997 Quant Results File: CLP_3.RES

Quant Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.16	7.97	423281	154071	19.456	20.351
Spiked Amount 20.000 Range 60 - 150 Recovery =					97.28%	101.76%
22) SA Decachlorobiphen	34.61	40.40	572614	372483	20.559	32.489 #
Spiked Amount 20.000 Range 60 - 150 Recovery =					102.80%	162.45%#
Target Compounds						
23) L1 Aroclor-1016{1}	0.00	10.43	0	66167	N.D.	365.372 #
24) L1 Aroclor-1016{2}	10.47	12.47	41418	21269	84.594	115.742 #
25) L1 Aroclor-1016{3}	12.52	14.25	213288	102261	264.244	281.043
26) L1 Aroclor-1016{4}	13.61	15.09	333113	237516	1359.156	2276.606 #
27) L1 Aroclor-1016{5}	15.22	17.65	864288	283683	937.695	1132.792
Sum Aroclor-1016			1452107	710897	2645.688	4171.554
Average Aroclor-1016					661.422 NP	834.311 NP
28) L2 Aroclor-1221{1}	0.00	9.56	0	18068	N.D.	651.567 #
30) L2 Aroclor-1221{3}	0.00	10.43	0	66167	N.D.	730.743 #
Sum Aroclor-1221			0	84235	N.D.	1382.311
Average Aroclor-1221					0.000	691.155 NP
31) L3 Aroclor-1232{1}	0.00	10.43	0	66167	N.D.	365.372 #
32) L3 Aroclor-1232{2}	10.47	12.47	41418	21269	84.594	115.742 #
33) L3 Aroclor-1232{3}	12.52	14.25	213288	102261	264.244	281.043
34) L3 Aroclor-1232{4}	15.22	15.09	864288	237516	937.695	2276.606 #
Sum Aroclor-1232			1118994	427213	1286.532	3038.762
Average Aroclor-1232					428.844 NP	759.690 NP
35) L4 Aroclor-1242{1}	0.00	10.43	0	66167	N.D.	379.242 #
36) L4 Aroclor-1242{2}	10.47	12.47	41418	21269	41.795	60.092 #
37) L4 Aroclor-1242{3}	12.52	14.25	213288	102261	118.709	143.616
38) L4 Aroclor-1242{4}	13.61	15.09	333113	237516	654.839	1296.838 #
39) L4 Aroclor-1242{5}	15.22	17.65	864288	283683	687.517	739.400
Sum Aroclor-1242			1452107	710897	1502.860	2619.187
Average Aroclor-1242					375.715 NP	523.837 NP
40) L5 Aroclor-1248{1}	10.47	12.47	41418	21269	85.329	127.602 #

DMS 7/12/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : H:\CA0666.D\ECD1A.CH Vial: 4
Signal #2 : H:\CA0666.D\ECD2B.CH
Acq On : 9 Jul 97 19:11 Operator:
Sample : 266311 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 17 17:53 1997 Quant Results File: CLP_3.RES

Quant Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
41) L5	Aroclor-1248{2}	12.52	14.25	213288	102261	158.871	179.788
42) L5	Aroclor-1248{3}	15.22	17.65	864288	283683	535.780	600.409
43) L5	Aroclor-1248{4}	15.70	19.03	472601	1375909	559.059	2743.231 #
44) L5	Aroclor-1248{5}	16.74	20.88	978660	384909	1844.430	1082.162 #
Sum	Aroclor-1248			2570254	2168031	3183.468	4733.192
Average	Aroclor-1248					636.694 NP	946.638 NP
45) L6	Aroclor-1254{1}	17.18	19.80	7491311	1646206	5508.592	3178.670 #
46) L6	Aroclor-1254{2}	18.10	20.15	8595959	3199015	7619.775	5058.784 #
47) L6	Aroclor-1254{3}	20.35	21.64	15517364	480718	10032.656	1494.745 #
48) L6	Aroclor-1254{4}	21.67	22.99	15617552	5160583	16808.225	5653.000 #
49) L6	Aroclor-1254{5}	22.33	24.43	11084222	4471928	15102.011	7527.869 #
Sum	Aroclor-1254			58306408	14958449	55071.260	22913.068
Average	Aroclor-1254					11014.252	4582.614
50) L7	Aroclor-1260{1}	20.35	22.99	15517364	5160583	21009.158	9321.050 #
51) L7	Aroclor-1260{2}	21.13	23.96	8084143	3093614	6221.921	4936.141
52) L7	Aroclor-1260{3}	22.33	24.43	11084222	4471928	7426.117	6000.338
53) L7	Aroclor-1260{4}	25.88	27.01	6861635	746827	7535.621	1272.626 #
54) L7	Aroclor-1260{5}	27.41	29.75	5399770	1663397	2540.327	1248.620 #
Sum	Aroclor-1260			46947133	15136348	44733.144	22778.776
Average	Aroclor-1260					8946.629 NP	4555.755 NP
55) L8	Toxaphene{1}	0.00	23.63	0	6041684	N.D.	44137.195 #
56) L8	Toxaphene{2}	0.00	25.79	0	92505	N.D.	427.022 #
57) L8	Toxaphene{3}	0.00	30.39	0	942571	N.D.	2654.050 #
Sum	Toxaphene			0	7076759	N.D.	47218.267
Average	Toxaphene					0.000	15739.422 NT

7/17/97

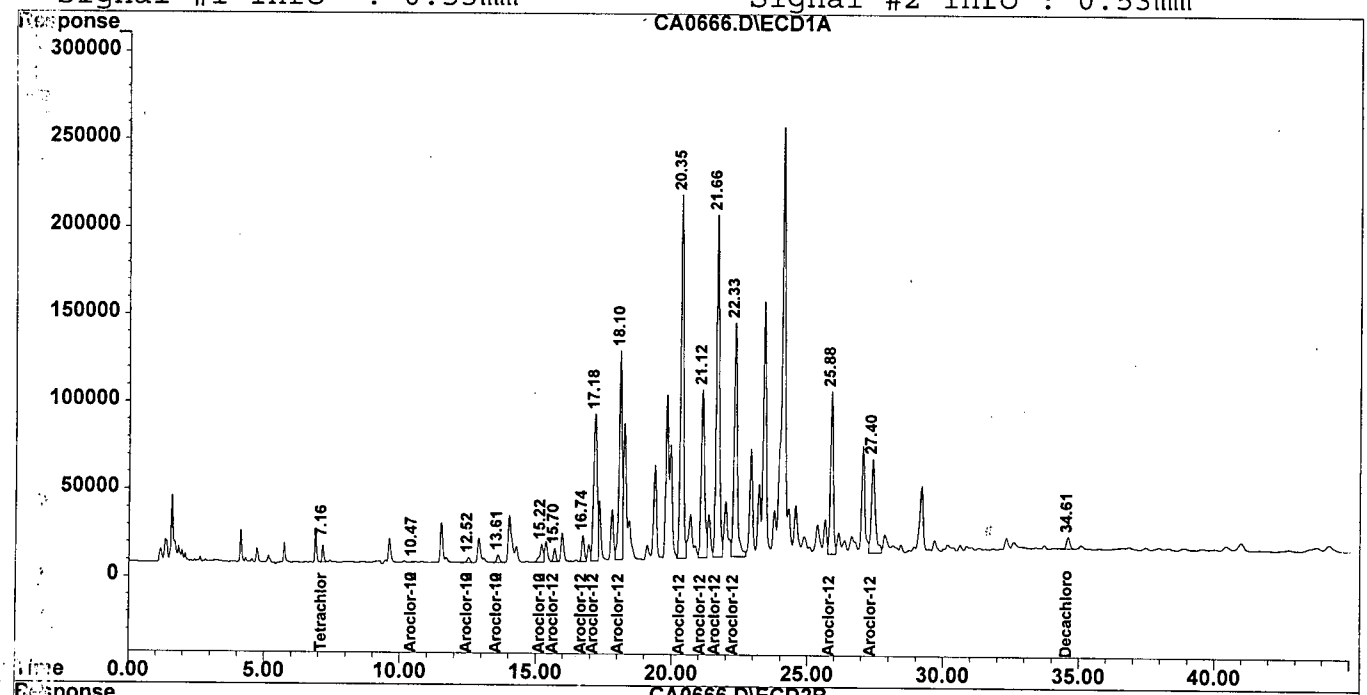
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

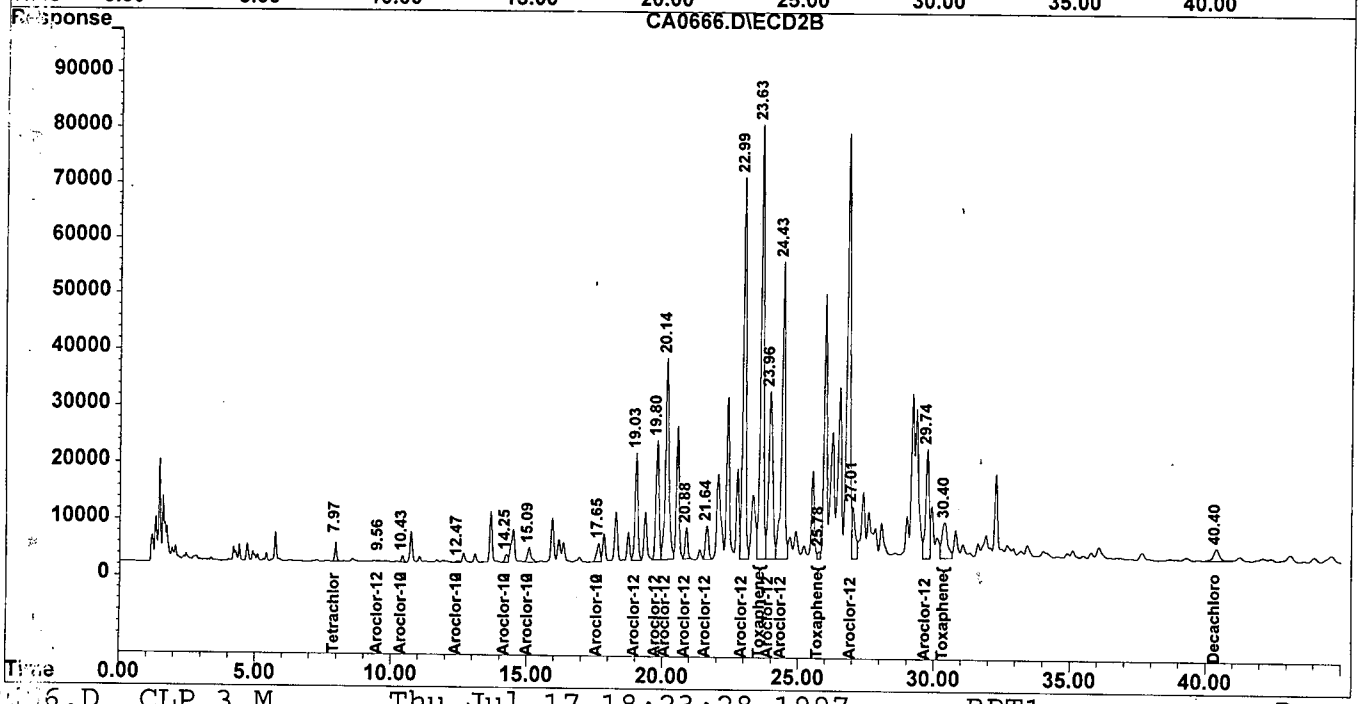
Quantitation Report

Signal #1 : H:\CA0666.D\ECD1A.CH Vial: 4
Signal #2 : H:\CA0666.D\ECD2B.CH
Acq On : 9 Jul 97 19:11 Operator:
Sample : 266311 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 17 17:53 1997 Quant Results File: CLP_3.RES

Quant Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm





1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE01 DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266311

Sample wt/vol: 30.0 (g/mL) G Lab File ID: CA0745

% Moisture: 18. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/15/97

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 5.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	20.	U
319-85-7	beta-BHC	20.	U
319-86-8	delta-BHC	20.	U
58-89-9	gamma-BHC (Lindane)	20.	U
76-44-8	Heptachlor	20.	U
309-00-2	Aldrin	20.	U
1024-57-3	Heptachlor epoxide	20.	U
959-98-8	Endosulfan I	20.	U
60-57-1	Dieldrin	41.	U
72-55-9	4,4'-DDE	41.	U
72-20-8	Endrin	41.	U
33213-65-9	Endosulfan II	41.	U
72-54-8	4,4'-DDD	41.	U
1031-07-8	Endosulfan Sulfate	41.	U
50-29-3	4,4'-DDT	41.	U
72-43-5	Methoxychlor	200.	U
53494-70-5	Endrin ketone	41.	U
7421-93-4	Endrin aldehyde	41.	U
5103-71-9	alpha-Chlordane	20.	U
5103-74-2	gamma-Chlordane	20.	U
8001-35-2	Toxaphene	2000.	U
12674-11-2	Aroclor-1016	410.	U
11104-28-2	Aroclor-1221	410.	U
11141-16-5	Aroclor-1232	410.	U
53469-21-9	Aroclor-1242	410.	U
12672-29-6	Aroclor-1248	410.	U
11097-69-1	Aroclor-1254	3600.	~~J~~ DP
11096-82-5	Aroclor-1260	410.	U

do Not use this Data

FORM I PEST

OLM03.0

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0745.D\ECD1A.CH
Signal #2 : I:\CA0745.D\ECD2B.CH
Acq On : 15 Jul 97 14:36
Sample : 266311 10X
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:46 1997 Quant Results File: CLP2_3.RES

Vial: 4
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.23	8.05	39350	15721	1.945	2.243
Spiked Amount 20.000 Range 60 - 150 Recovery =					9.73%#	11.22%#
22) SA Decachlorobiphen	34.81	40.70	60226	26126	2.421m	2.499m
Spiked Amount 20.000 Range 60 - 150 Recovery =					12.11%#	12.50%#
Target Compounds						
26) L1 Aroclor-1016{4}	13.74	15.22	30158	23057	46.638	85.917 #
2[illegible]) L1 Aroclor-1016{5}	0.00	17.78	0	35516	N.D.	148.120 #
Sum Aroclor-1016			30158	58573	46.638	234.037
Average Aroclor-1016					46.638	117.019
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
3[illegible]) L3 Aroclor-1232{4}	0.00	15.22	0	23057	N.D.	267.108 #
Sum Aroclor-1232			0	23057	N.D.	267.108
Average Aroclor-1232					0.000	267.108
3[illegible]) L4 Aroclor-1242{4}	13.74	15.22	30158	23057	65.284	131.890 #
39) L4 Aroclor-1242{5}	0.00	17.78	0	35516	N.D.	155.256 #
Sum Aroclor-1242			30158	58573	65.284	287.146
Average Aroclor-1242					65.284	143.573
42) L5 Aroclor-1248{3}	0.00	17.78	0	35516	N.D.	107.203 #
4[illegible]) L5 Aroclor-1248{4}	0.00	19.17	0	207315	N.D.	605.122 #
4[illegible]) L5 Aroclor-1248{5}	0.00	21.03	0	59782	N.D.	148.064 #
Sum Aroclor-1248			0	302613	N.D.	860.388
Average Aroclor-1248					0.000	286.796
45) L6 Aroclor-1254{1}	17.32	19.94	960629	269026	801.009	575.309 #
46) L6 Aroclor-1254{2}	18.25	20.29	905132	532269	897.251	966.042
4[illegible]) L6 Aroclor-1254{3}	20.50	21.78	1855821	66841	1514.264	322.677 #
4[illegible]) L6 Aroclor-1254{4}	21.27	23.14	980761	766488	1622.423	860.078 #
49) L6 Aroclor-1254{5}	22.48	24.58	1437603	657630	2372.471	1693.907 #
Sum Aroclor-1254			6139945	2292255	7207.418	~~4418.012~~
Average Aroclor-1254					1441.484	883.602

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

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0745.D\ECD1A.CH Vial: 4
Signal #2 : I:\CA0745.D\ECD2B.CH
Acq On : 15 Jul 97 14:36 Operator:
Sample : 266311 10X Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:46 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
50)	L7 Aroclor-1260{1}	20.50	23.14	1855821	766488	2794.406	1917.084	#
51)	L7 Aroclor-1260{2}	21.27	24.11	980761	480234	810.399	819.232	
52)	L7 Aroclor-1260{3}	22.48	24.58	1437603	657630	1043.874	967.758	
53)	L7 Aroclor-1260{4}	26.04	0.00	656266	0	842.512	N.D.	#
54)	L7 Aroclor-1260{5}	0.00	29.91	0	95610	N.D.	80.042	#
	Sum Aroclor-1260			4930451	1999963	5491.191	3784.115	
	Average Aroclor-1260					1372.798	946.029	
	Sum Toxaphene			0	0	N.D.	N.D.	
	Average Toxaphene					0.000	0.000	

MP MP

JP 7/22/97

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

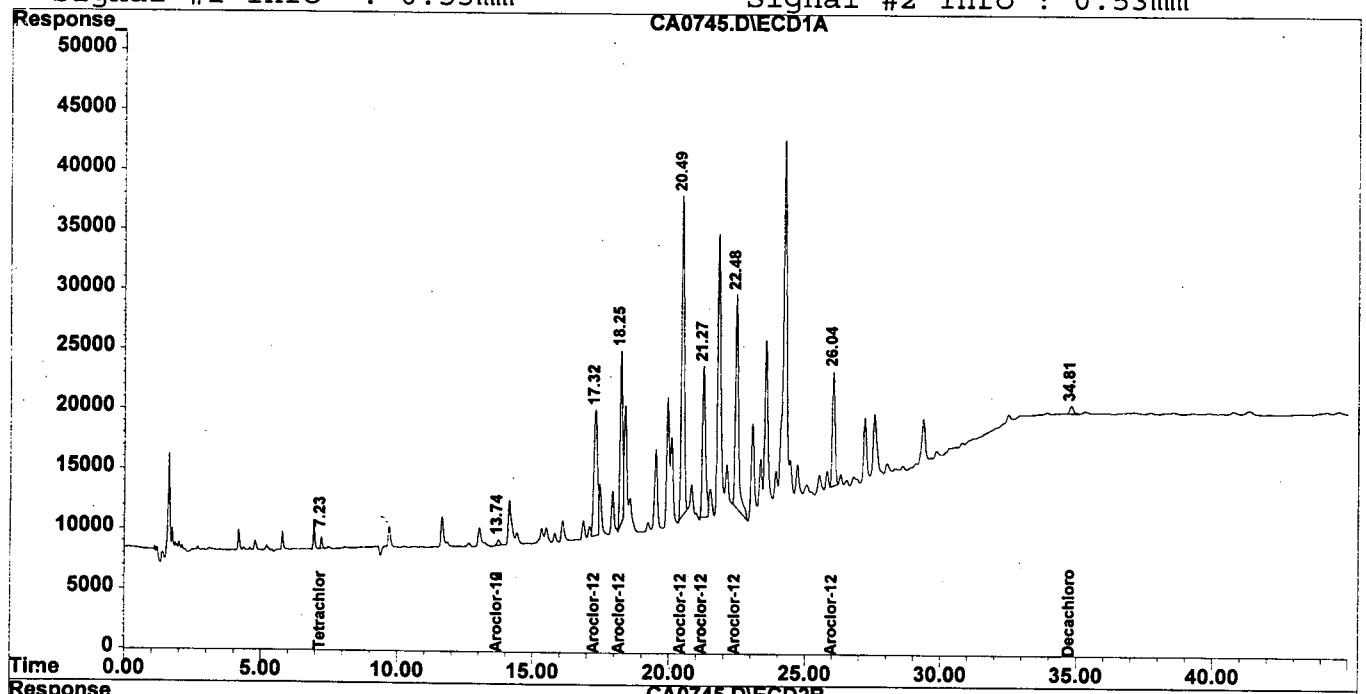
Quantitation Report

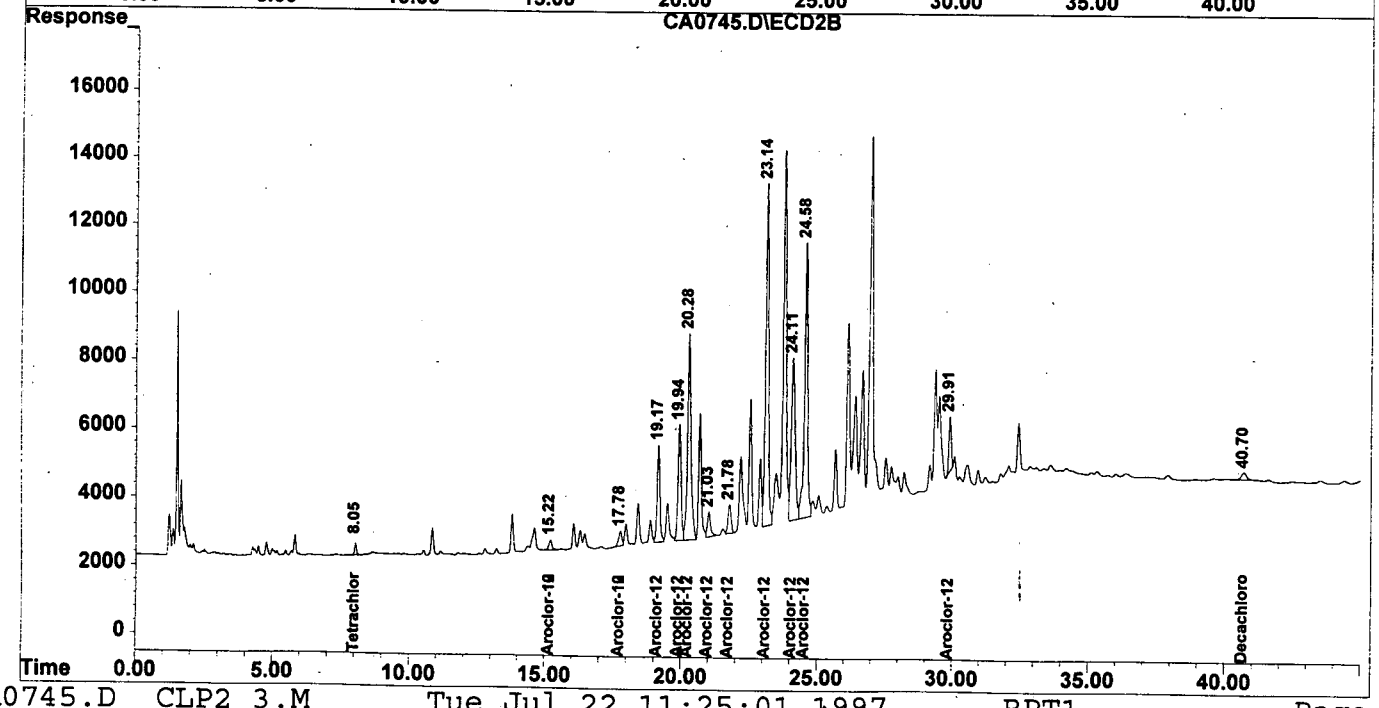
Signal #1 : I:\CA0745.D\ECD1A.CH
Signal #2 : I:\CA0745.D\ECD2B.CH
Acq On : 15 Jul 97 14:36
Sample : 266311 10X
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:46 1997 Quant Results File: CLP2_3.RES

Vial: 4
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701
Signal #1 Info : 0.53mm
Signal #2 Phase: DB-608
Signal #2 Info : 0.53mm





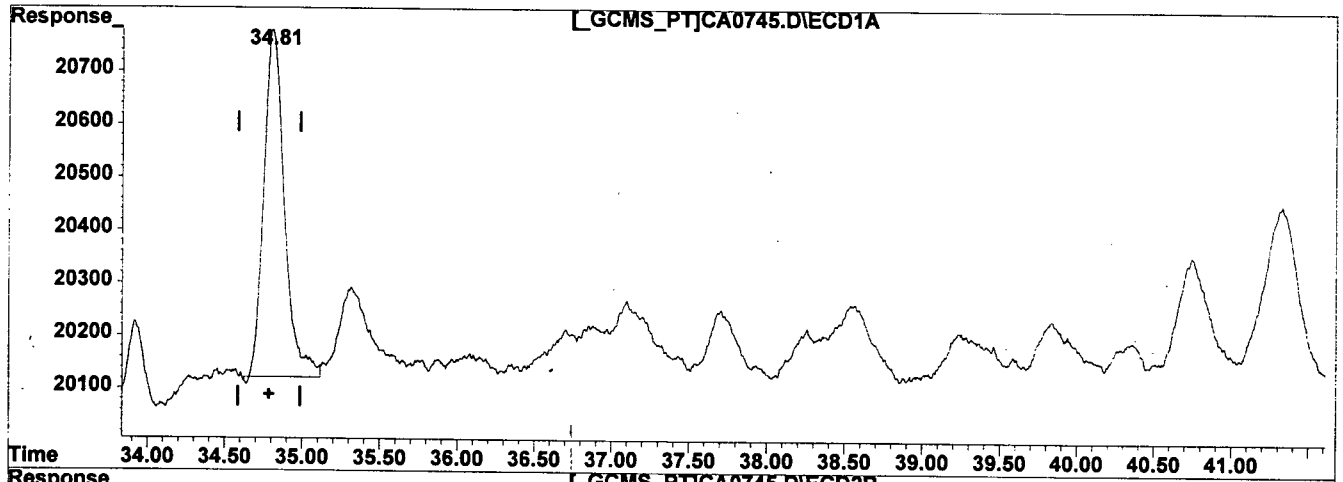
Quantitation Report

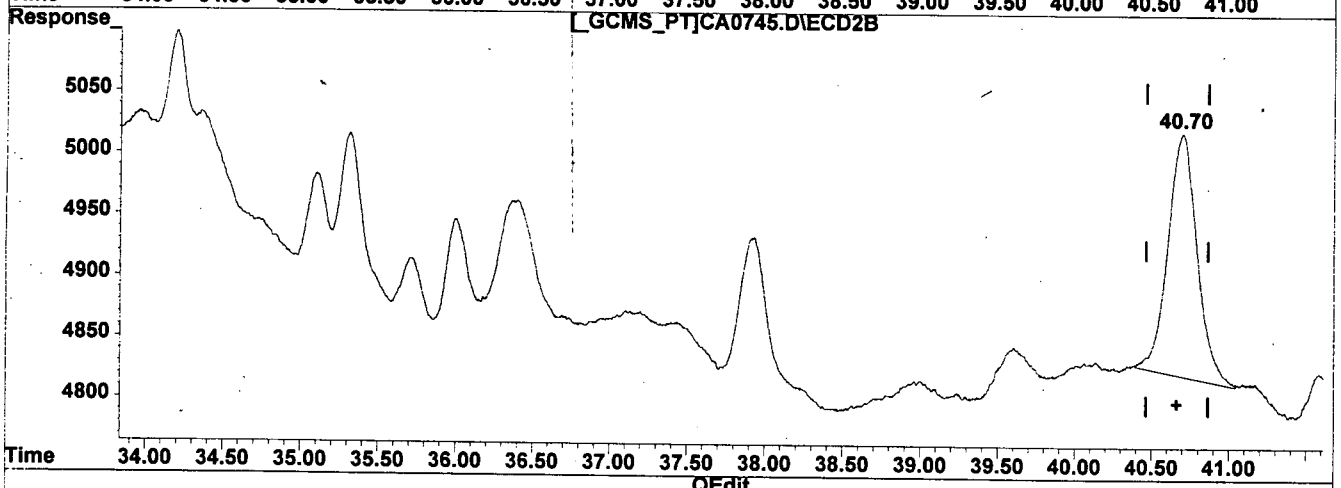
Signal #1 : I:\CA0745.D\ECD1A.CH
Signal #2 : I:\CA0745.D\ECD2B.CH
Acq On : 15 Jul 97 14:36
Sample : 266311 10X
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 20:00 1997 Quant Results File: CLP2_3.RES

Vial: 4

Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





(22) Decachlorobiphenyl (SA)

34.81min 2.421ng/ml m

response 60226

(22) Decachlorobiphenyl #2 (SA)

40.70min 2.499ng/ml m

response 26126

(+) = Expected Retention Time

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE02

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266312

Sample wt/vol: 30.2 (g/mL) G Lab File ID: CA0667

% Moisture: 19. decanted: (Y/N) N Date Received: 06/27/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan Sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200.	U
12674-11-2	Aroclor-1016	41.	U
11104-28-2	Aroclor-1221	41.	U
11141-16-5	Aroclor-1232	41.	U
53469-21-9	Aroclor-1242	41.	U
12672-29-6	Aroclor-1248	41.	U
11097-69-1	Aroclor-1254	4800.	
11096-82-5	Aroclor-1260	41.	U

Use this Data

FORM I PEST OLM03.0

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : J:\CA0667.D\ECD1A.CH Vial: 5
Signal #2 : J:\CA0667.D\ECD2B.CH
Acq On : 9 Jul 97 19:59 Operator:
Sample : 266312 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:05 1997 Quant Results File: CLP_3.RES

Quant Method : I:\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.16	7.98	413124	153424	18.989	20.266
Spiked Amount 20.000 Range 60 - 150 Recovery =					94.95%	101.33%
22) SA Decachlorobiphen	34.60	40.40	527826	267173	18.951m	23.304m
Spiked Amount 20.000 Range 60 - 150 Recovery =					94.76%	116.52%
Target Compounds						
23) L1 Aroclor-1016{1}	9.11	10.43	25956	1606309	45.696	8869.988 #
24) L1 Aroclor-1016{2}	0.00	12.46	0	133749	N.D.	727.836 #
25) L1 Aroclor-1016{3}	12.51	0.00	361820	0	448.260	N.D. #
26) L1 Aroclor-1016{4}	13.57	15.06	14986893	11309937	61149.027	108406.381 #
27) L1 Aroclor-1016{5}	0.00	17.57	0	6265782	N.D.	25020.265 #
Sum Aroclor-1016			15374670	19315778	61642.984	143024.469
Average Aroclor-1016					20547.661 NP	35756.117 NP
30) L2 Aroclor-1221{3}	9.11	10.43	25956	1606309	91.393	17739.975 #
Sum Aroclor-1221			25956	1606309	91.393	17739.975
Average Aroclor-1221					91.393 NP	17739.975 NP
31) L3 Aroclor-1232{1}	9.11	10.43	25956	1606309	45.696	8869.988 #
32) L3 Aroclor-1232{2}	0.00	12.46	0	133749	N.D.	727.836 #
33) L3 Aroclor-1232{3}	12.51	0.00	361820	0	448.260	N.D. #
34) L3 Aroclor-1232{4}	0.00	15.06	0	11309937	N.D.	108406.381 #
Sum Aroclor-1232			387776	13049995	493.957	118004.204
Average Aroclor-1232					246.978 NP	39334.735 NP
35) L4 Aroclor-1242{1}	9.11	10.43	25956	1606309	44.716	9206.716 #
36) L4 Aroclor-1242{2}	0.00	12.46	0	133749	N.D.	377.883 #
37) L4 Aroclor-1242{3}	12.51	0.00	361820	0	201.377	N.D. #
38) L4 Aroclor-1242{4}	13.57	15.06	14986893	11309937	29461.479	61752.234 #
Sum Aroclor-1242			15374670	13049995	29707.573	71336.833
Average Aroclor-1242					9902.524 NP	23778.944 NP
40) L5 Aroclor-1248{1}	0.00	12.46	0	133749	N.D.	802.419 #

JWS 7/14/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : J:\CA0667.D\ECD1A.CH Vial: 5
Signal #2 : J:\CA0667.D\ECD2B.CH
Acq On : 9 Jul 97 19:59 Operator:
Sample : 266312 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:05 1997 Quant Results File: CLP_3.RES

Quant Method : I:\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
41) L5	Aroclor-1248{2}	12.51	0.00	361820	0	269.507	N.D. #
43) L5	Aroclor-1248{4}	15.68	19.02	572457	1485311	677.183	2951.353 #
44) L5	Aroclor-1248{5}	16.72	20.88	917951	733678	1730.015	2062.720
Sum	Aroclor-1248			1852228	2352739	2676.705	5326.493
Average	Aroclor-1248					892.235 ~~	1842.164 ~~
45) L6	Aroclor-1254{1}	17.15	19.80	11664048	2219713	8576.935	4286.060 #
46) L6	Aroclor-1254{2}	18.10	20.02f	8455310	24844622	7495.098	39288.211m#
47) L6	Aroclor-1254{3}	20.35	21.64	16316158	694269	10549.111	2158.764 #
48) L6	Aroclor-1254{4}	21.66	22.98	16122923	5520293	17352.126	6047.034 #
49) L6	Aroclor-1254{5}	22.33	24.43	10841216	4754810	14770.922	8004.062 #
Sum	Aroclor-1254			63399656	38033708	58744.192	59784.130
Average	Aroclor-1254					11748.838	11956.826
50) L7	Aroclor-1260{1}	20.35	22.98	16316158	5520293	22090.655	9970.759 #
51) L7	Aroclor-1260{2}	21.12	0.00	8799903	0	6772.803	N.D. #
52) L7	Aroclor-1260{3}	22.33	24.43	10841216	4754810	7263.310	6379.904
53) L7	Aroclor-1260{4}	25.88	0.00	7113298	0	7812.004	N.D. #
54) L7	Aroclor-1260{5}	27.40	29.76	5266199	3110011	2477.488	2334.513
Sum	Aroclor-1260			48336775	13385115	46416.261	18685.177
Average	Aroclor-1260					9283.252 ~~	6228.392 ~~
Sum	Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000

DMW 7/14/97

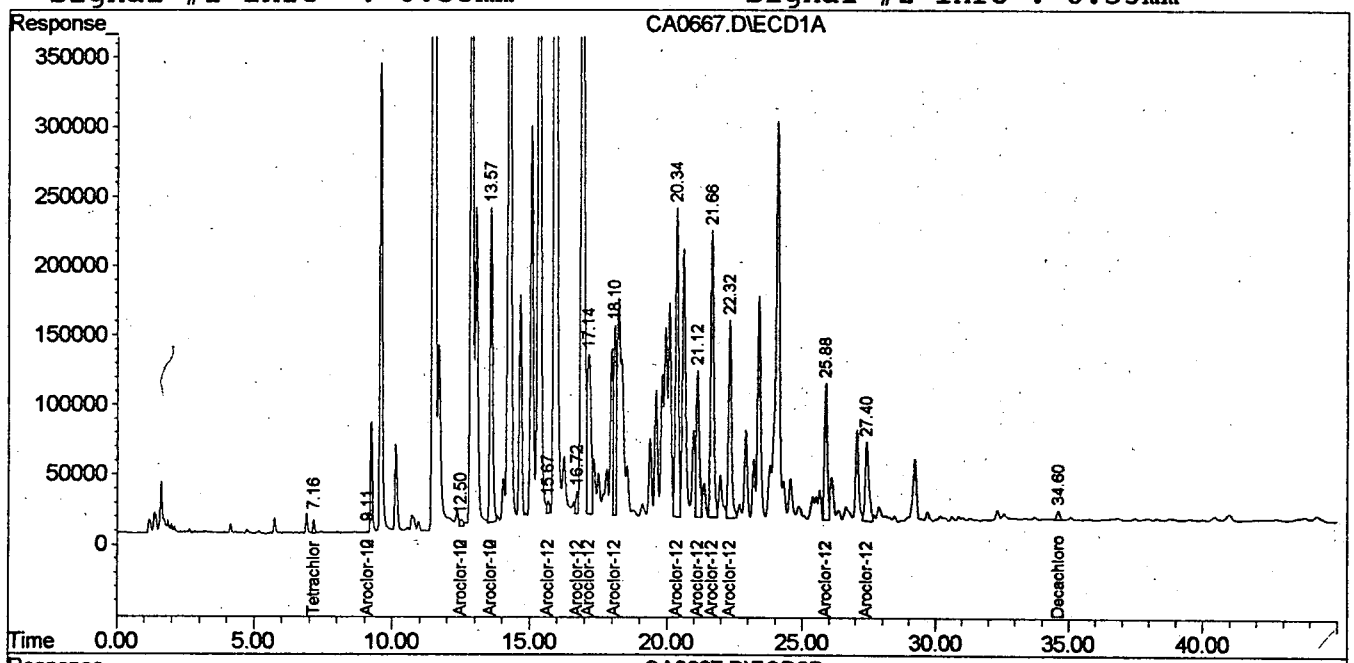
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

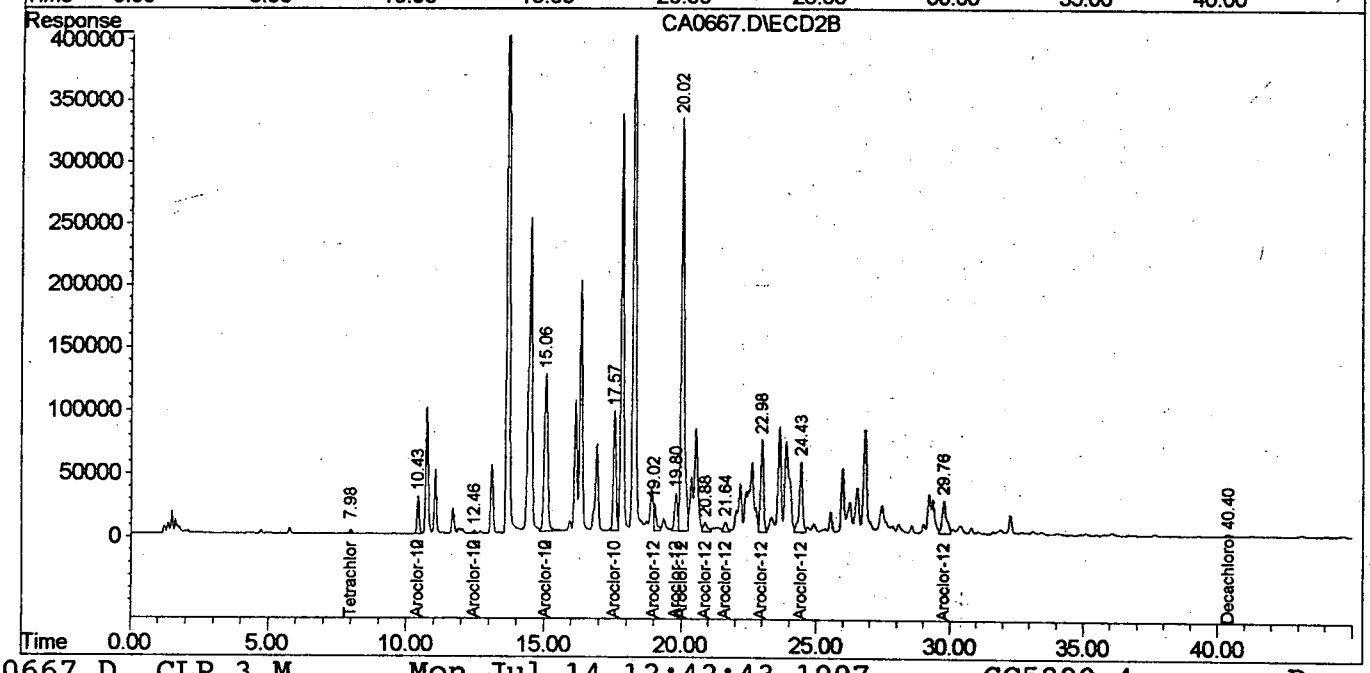
Quantitation Report

Signal #1 : J:\CA0667.D\ECD1A.CH Vial: 5
Signal #2 : J:\CA0667.D\ECD2B.CH
Acq On : 9 Jul 97 19:59 Operator:
Sample : 266312 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:05 1997 Quant Results File: CLP_3.RES

Quant Method : I:\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

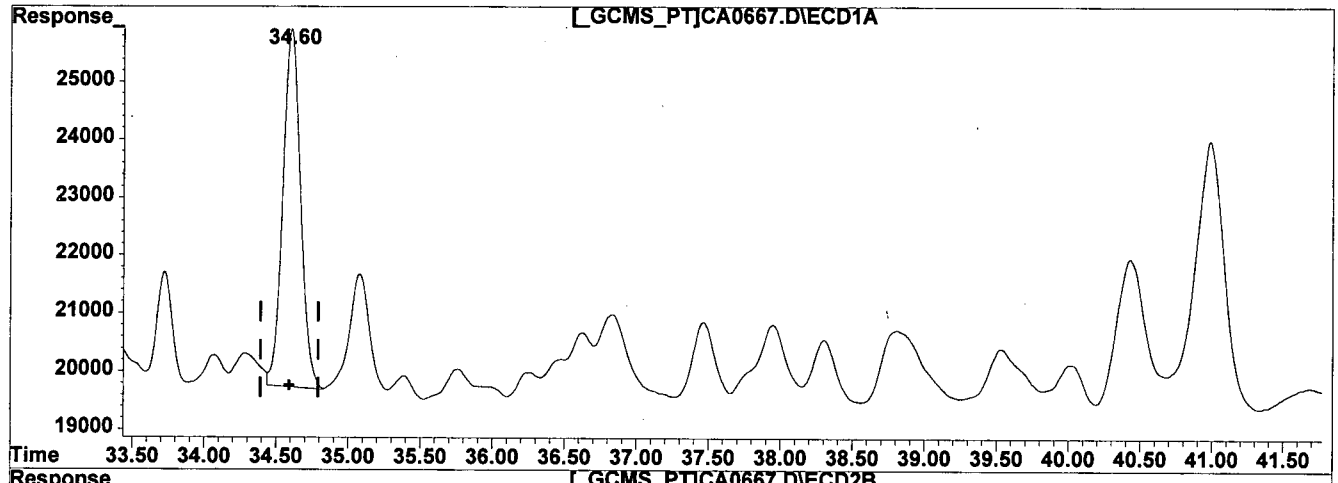


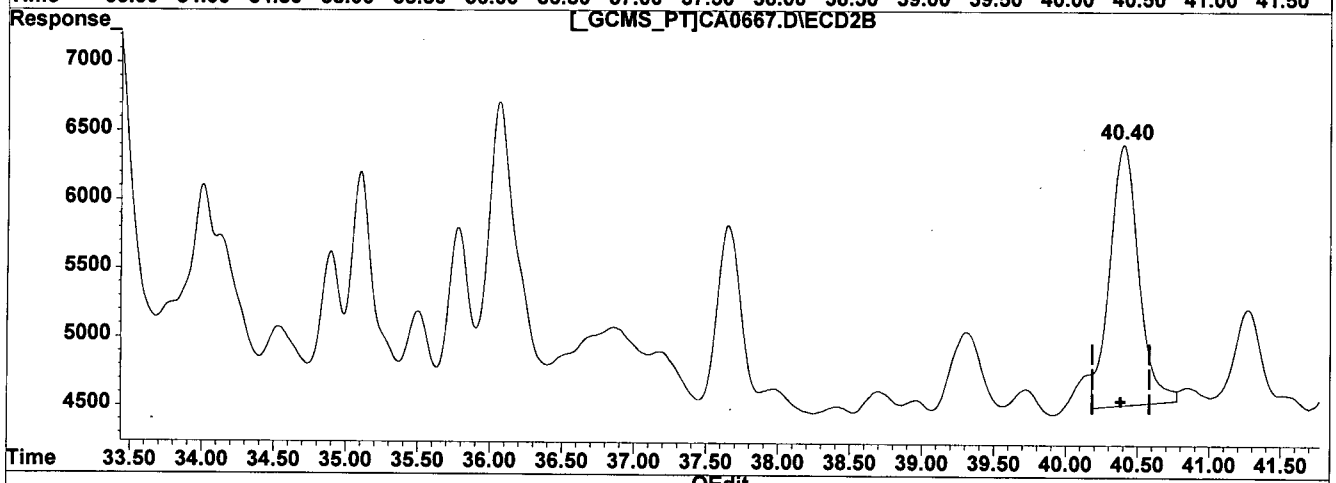


Quantitation Report

Signal #1 : C:\DATA_03\CA0667.D\ECD1A.CH Vial: 5
Signal #2 : C:\DATA_03\CA0667.D\ECD2B.CH
Acq On : 9 Jul 97 19:59 Operator:
Sample : 266312 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:05 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

34.60min 18.951ng/ml m

response 527826

(22) Decachlorobiphenyl #2 (SA)

40.40min 23.304ng/ml m

response 267173

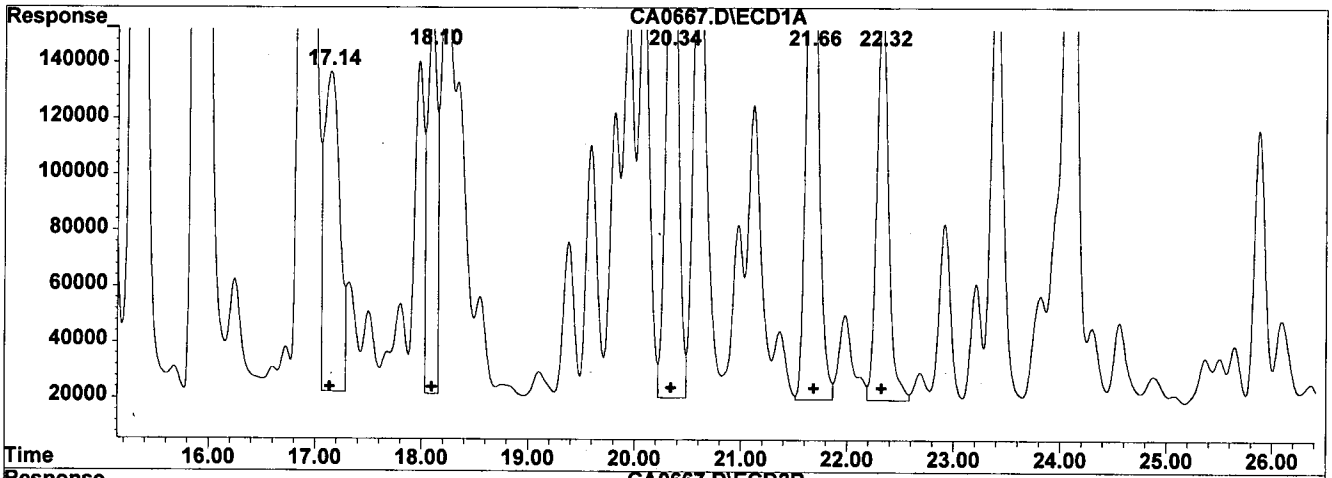
(+) = Expected Retention Time

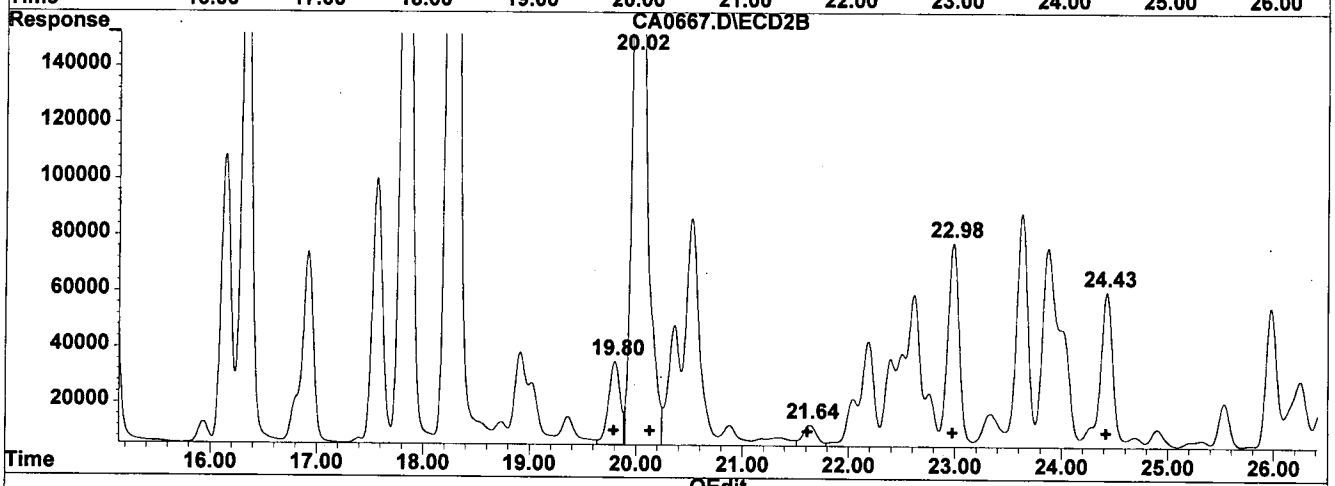
CA0667.D CLP_3.M Wed Jul 23 10:56:21 1997 GC

Quantitation Report

Signal #1 : C:\DATA_03\CA0667.D\ECD1A.CH Vial: 5
Signal #2 : C:\DATA_03\CA0667.D\ECD2B.CH
Acq On : 9 Jul 97 19:59 Operator:
Sample : 266312 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:05 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(45) Aroclor-1254{1} (L6)

R.T.	Response	Conc
17.15	11664048	8576.93
18.10	8455310	7495.10
20.35	16316158	10549.11
21.66	16122923	17352.13
22.33	10841216	14770.92

(45) Aroclor-1254{1} #2 (L6)

R.T.	Response	Conc
19.80	2219713	4286.06
20.02	24844622	39288.21
21.64	694269	2158.76
22.98	5520293	6047.03
24.43	4754810	8004.06

(+) = Expected Retention Time

CA0667.D CLP_3.M Wed Jul 23 10:57:27 1997 GC

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE02	DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266312

Sample wt/vol: 30.2 (g/mL) G Lab File ID: CA0744

% Moisture: 19. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/15/97

Injection Volume: 1.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 5.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	41.	U
319-85-7	beta-BHC	41.	U
319-86-8	delta-BHC	41.	U
58-89-9	gamma-BHC (Lindane)	41.	U
76-44-8	Heptachlor	41.	U
309-00-2	Aldrin	41.	U
1024-57-3	Heptachlor epoxide	41.	U
959-98-8	Endosulfan I	41.	U
60-57-1	Dieldrin	82.	U
72-55-9	4,4'-DDE	82.	U
72-20-8	Endrin	82.	U
33213-65-9	Endosulfan II	82.	U
72-54-8	4,4'-DDD	82.	U
1031-07-8	Endosulfan Sulfate	82.	U
50-29-3	4,4'-DDT	82.	U
72-43-5	Methoxychlor	410.	U
53494-70-5	Endrin ketone	82.	U
7421-93-4	Endrin aldehyde	82.	U
5103-71-9	alpha-Chlordane	41.	U
5103-74-2	gamma-Chlordane	41.	U
8001-35-2	Toxaphene	4100.	U
12674-11-2	Aroclor-1016	820.	U
11104-28-2	Aroclor-1221	820.	U
11141-16-5	Aroclor-1232	820.	U
53469-21-9	Aroclor-1242	820.	U
12672-29-6	Aroclor-1248	820.	U
11097-69-1	Aroclor-1254	8400.	D
11096-82-5	Aroclor-1260	820.	U

Do Not Use This Data

FORM I PEST OLM03.0

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0744.D\ECD1A.CH Vial: 3
Signal #2 : I:\CA0744.D\ECD2B.CH
Acq On : 15 Jul 97 13:47 Operator:
Sample : 266312 20X Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:44 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.23	8.05	18625	8255	0.921	1.178m#
Spiked Amount 20.000 Range 60 - 150 Recovery =					4.61%#	5.89%#
22) SA Decachlorobiphen	34.81	40.71	28458	11811	1.144m	1.130m
Spiked Amount 20.000 Range 60 - 150 Recovery =					5.72%#	5.65%#
Target Compounds						
23) L1 Aroclor-1016{1}	0.00	10.53	0	146933	N.D.	703.431 #
24) L1 Aroclor-1016{4}	13.72	15.20	1333154	1002147	2061.663	3734.337 #
25) L1 Aroclor-1016{5}	0.00	17.71	0	533842	N.D.	2226.381 #
Sum Aroclor-1016			1333154	1682921	2061.663	6664.149
Average Aroclor-1016					2061.663	2221.383
30) L2 Aroclor-1221{3}	0.00	10.53	0	146933	N.D.	556.268 #
Sum Aroclor-1221			0	146933	N.D.	556.268
Average Aroclor-1221					0.000	556.268
31) L3 Aroclor-1232{1}	0.00	10.53	0	146933	N.D.	833.236 #
34) L3 Aroclor-1232{4}	0.00	15.20	0	1002147	N.D.	11609.668 #
Sum Aroclor-1232			0	1149079	N.D.	12442.904
Average Aroclor-1232					0.000	6221.452
37) L4 Aroclor-1242{1}	0.00	10.53	0	146933	N.D.	926.869 #
38) L4 Aroclor-1242{4}	13.72	15.20	1333154	1002147	2885.945	5732.501 #
39) L4 Aroclor-1242{5}	0.00	17.71	0	533842	N.D.	2333.638 #
Sum Aroclor-1242			1333154	1682921	2885.945	8993.008
Average Aroclor-1242					2885.945	2997.669
42) L5 Aroclor-1248{3}	0.00	17.71	0	533842	N.D.	1611.354 #
Sum Aroclor-1248			0	533842	N.D.	1611.354
Average Aroclor-1248					0.000	1611.354
45) L6 Aroclor-1254{1}	17.27	19.95	1043245	163737	869.898	350.149 #
46) L6 Aroclor-1254{2}	18.23	20.17	1095126	2133598	1085.591	3872.376m#
47) L6 Aroclor-1254{3}	20.50	21.79	1116061	36288	910.655	175.181 #
48) L6 Aroclor-1254{4}	21.27	23.14	642648	458268	1063.099	514.223 #

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

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0744.D\ECD1A.CH Vial: 3
Signal #2 : I:\CA0744.D\ECD2B.CH
Acq On : 15 Jul 97 13:47 Operator:
Sample : 266312 20X Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:44 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
4[illegible])	L6 Aroclor-1254{5}	22.48	24.58	722517	396395	1192.368	1021.025	
	Sum Aroclor-1254			4619598	3188286	5121.611	5932.954	
Average	Aroclor-1254					1024.322	1186.591	
50)	L7 Aroclor-1260{1}	20.50	23.14	1116061	458268	1680.512	1146.185	#
51)	L7 Aroclor-1260{2}	21.27	24.04	642648	779274	531.017	1329.365	#
5[illegible])	L7 Aroclor-1260{3}	22.48	24.58	722517	396395	524.635	583.329	
5[illegible])	L7 Aroclor-1260{4}	26.05	0.00	321640	0	412.921	N.D.	#
54)	L7 Aroclor-1260{5}	0.00	29.93	0	138060	N.D.	115.580	#
	Sum Aroclor-1260			2802867	1771997	3149.085	3174.459	
Average	Aroclor-1260					787.271	793.615	
	Sum Toxaphene			0	0	N.D.	N.D.	
Average	Toxaphene					0.000	0.000	

TPR 7/22/97

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

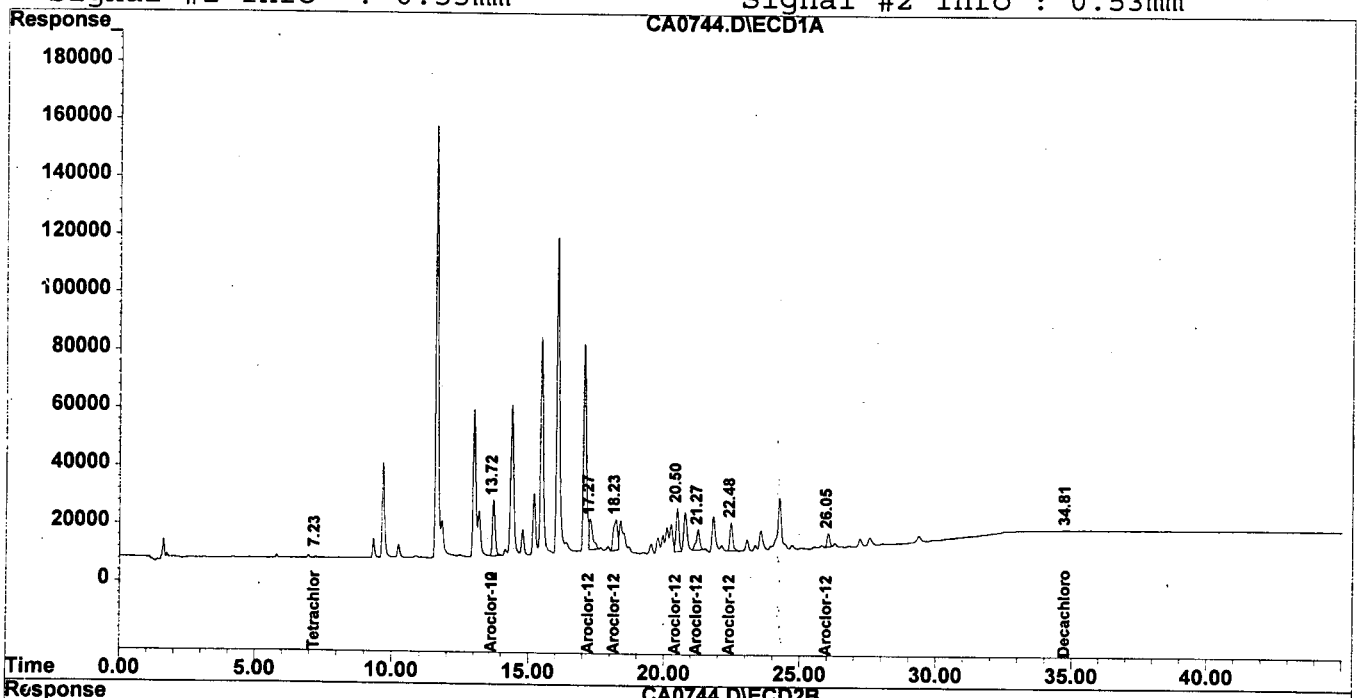
Quantitation Report

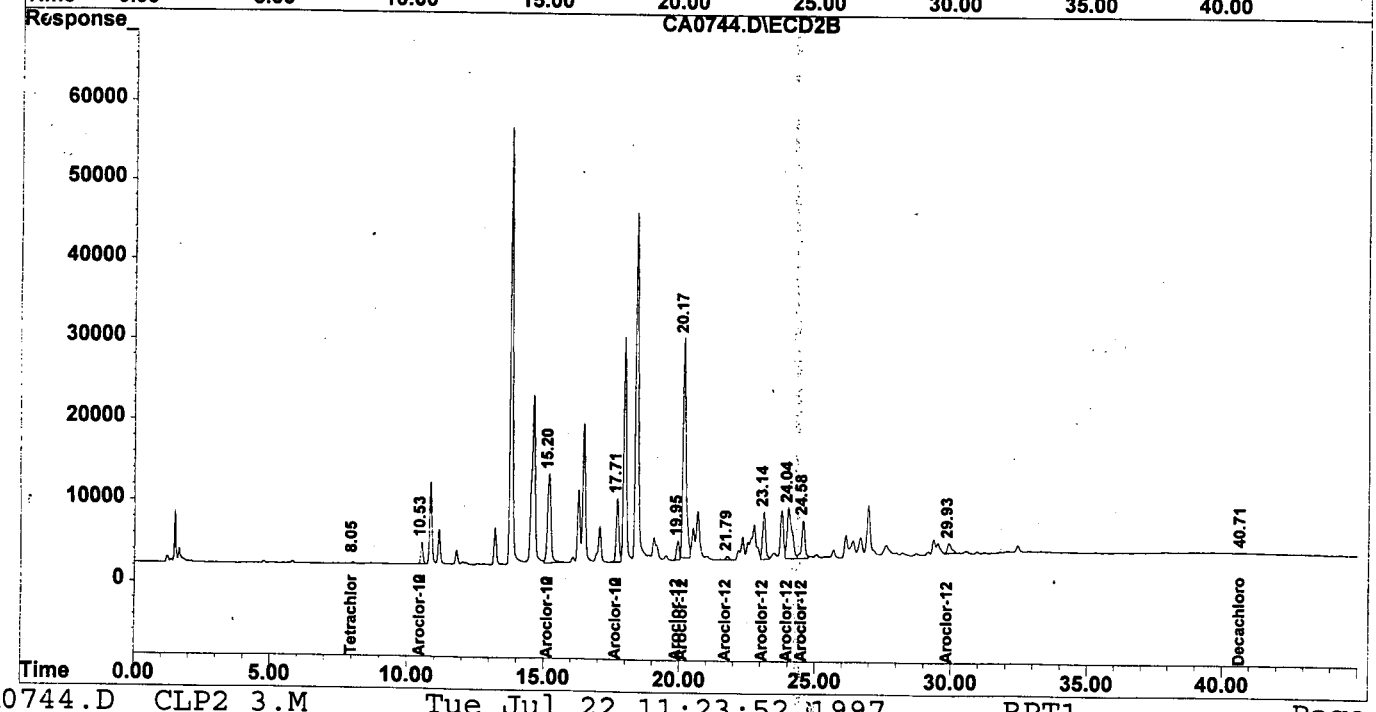
Signal #1 : I:\CA0744.D\ECD1A.CH
Signal #2 : I:\CA0744.D\ECD2B.CH
Acq On : 15 Jul 97 13:47
Sample : 266312 20X
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:44 1997 Quant Results File: CLP2_3.RES

Vial: 3
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701
Signal #1 Info : 0.53mm
Signal #2 Phase: DB-608
Signal #2 Info : 0.53mm

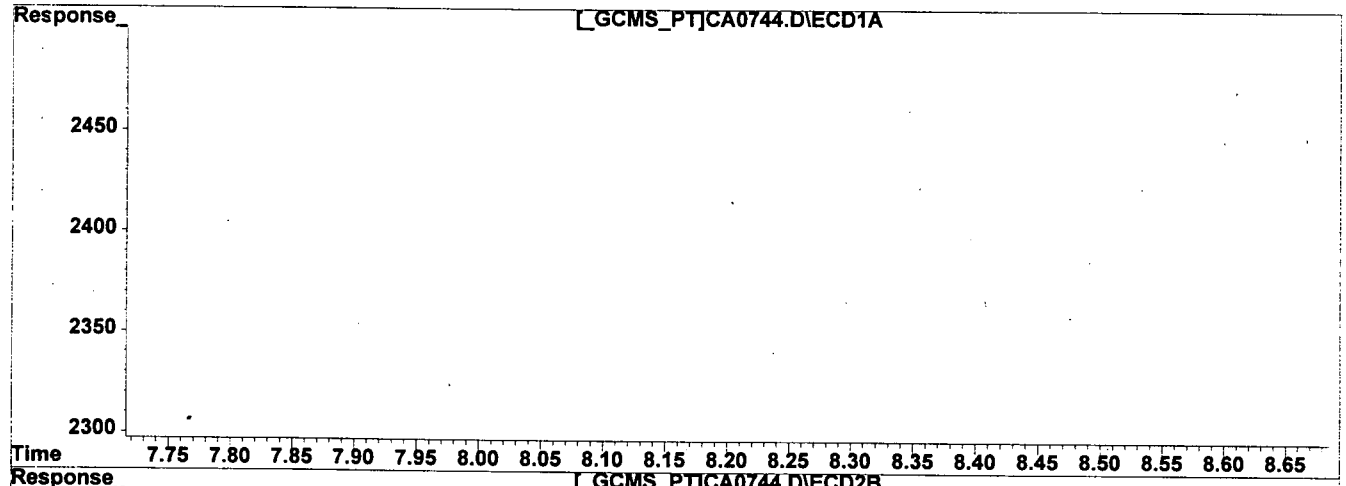


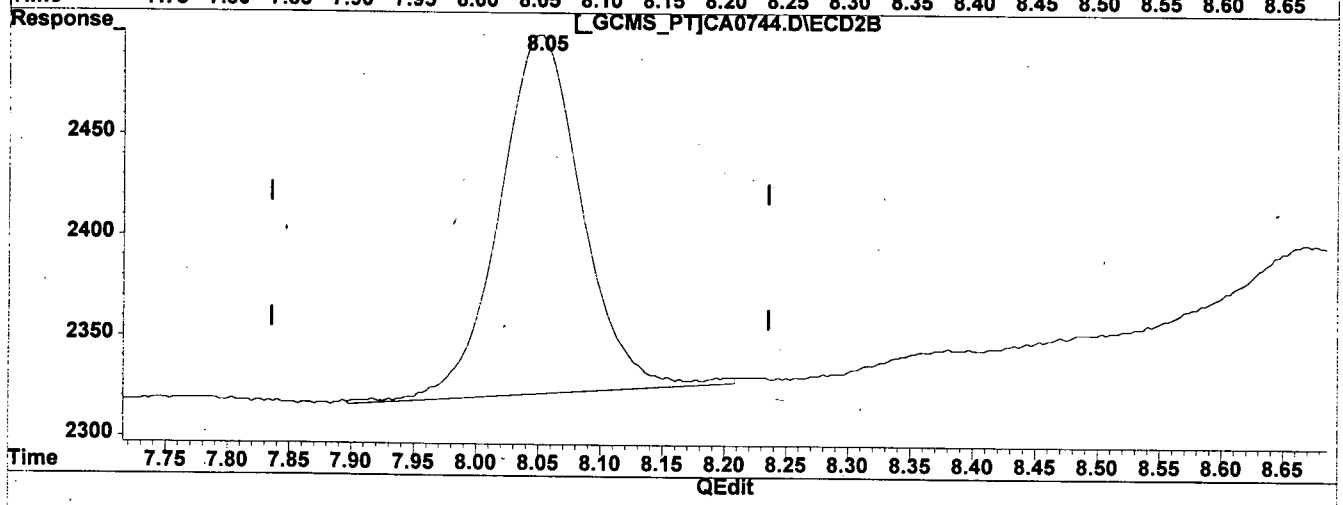


Quantitation Report

Signal #1 : I:\CA0744.D\ECD1A.CH Vial: 3
Signal #2 : I:\CA0744.D\ECD2B.CH
Acq On : 15 Jul 97 13:47 Operator:
Sample : 266312 20X Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 19:58 1997 Quant Results File: CLP2_3.RES

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





(1) Tetrachloro-m-xylene (SA)

7.23min 0.921ng/ml

response 18625

(1) Tetrachloro-m-xylene #2 (SA)

8.05min 1.178ng/ml m

response 8255

(+) = Expected Retention Time

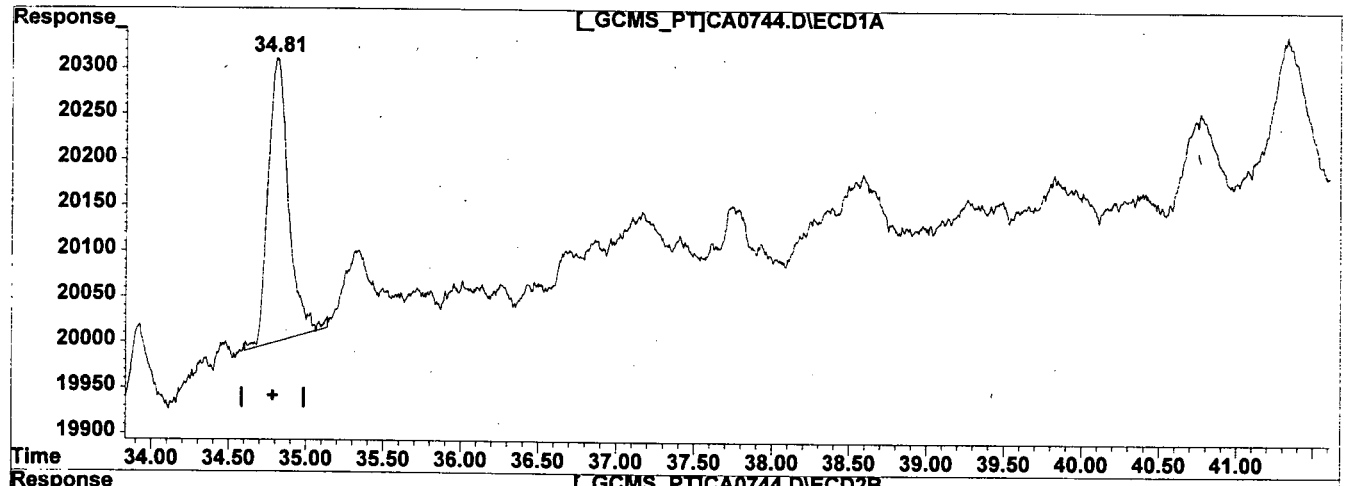
CA0744.D CLP2_3.M Tue Jul 22 10:42:59 1997 RPT1

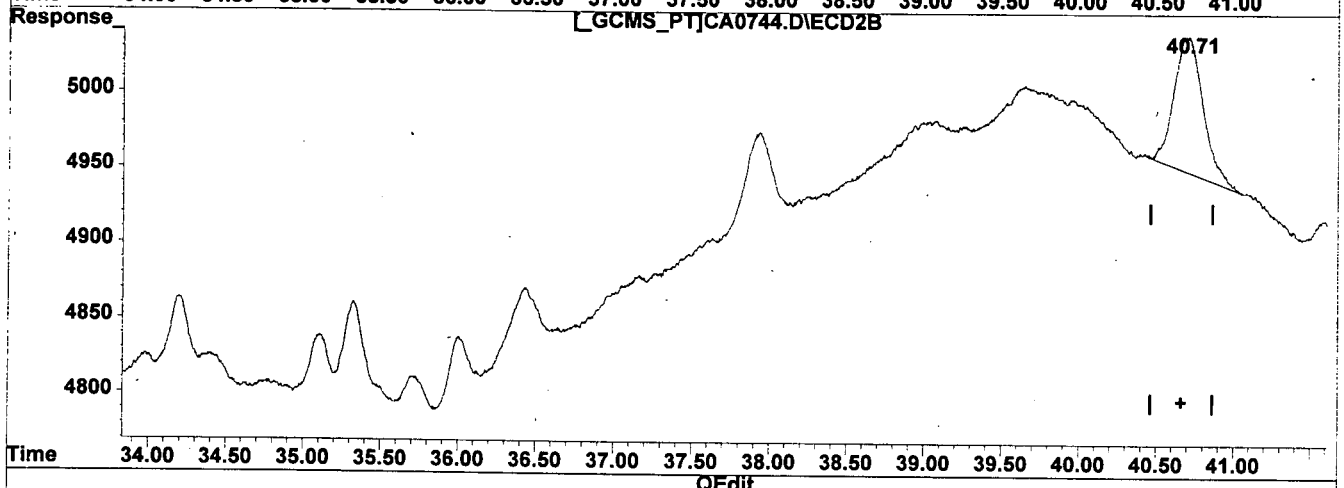
Quantitation Report

Signal #1 : I:\CA0744.D\ECD1A.CH
Signal #2 : I:\CA0744.D\ECD2B.CH
Acq On : 15 Jul 97 13:47
Sample : 266312 20X
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 19:58 1997 Quant Results File: CLP2_3.RES

Vial: 3
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





(22) Decachlorobiphenyl (SA)

34.81min 1.144ng/ml m

response 28458

(22) Decachlorobiphenyl #2 (SA)

40.71min 1.130ng/ml m

response 11811

(+) = Expected Retention Time

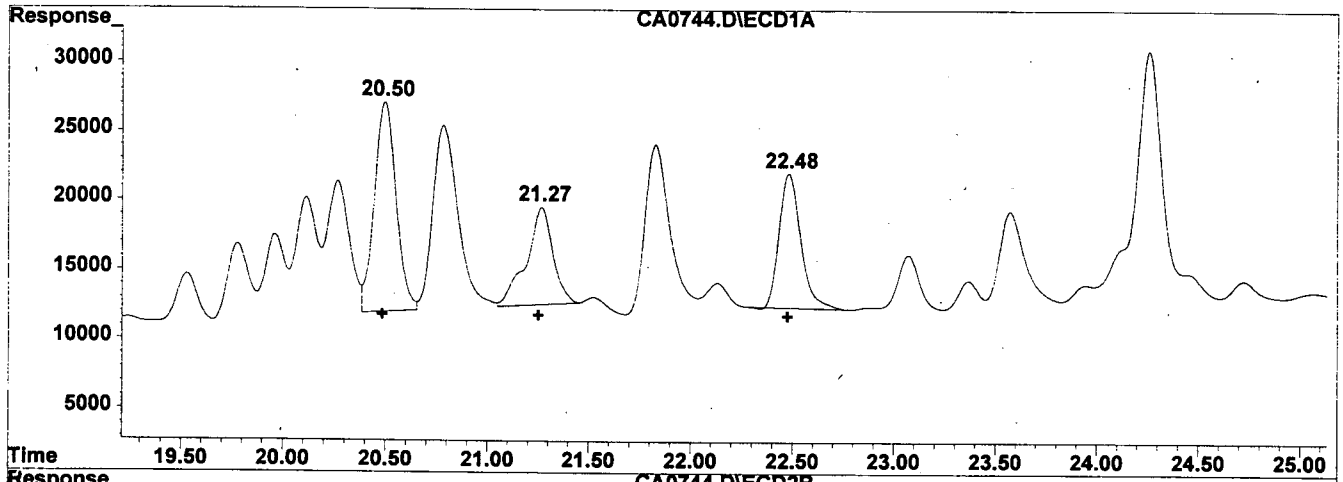
CA0744.D CLP2_3.M Tue Jul 22 10:43:43 1997 RPT1

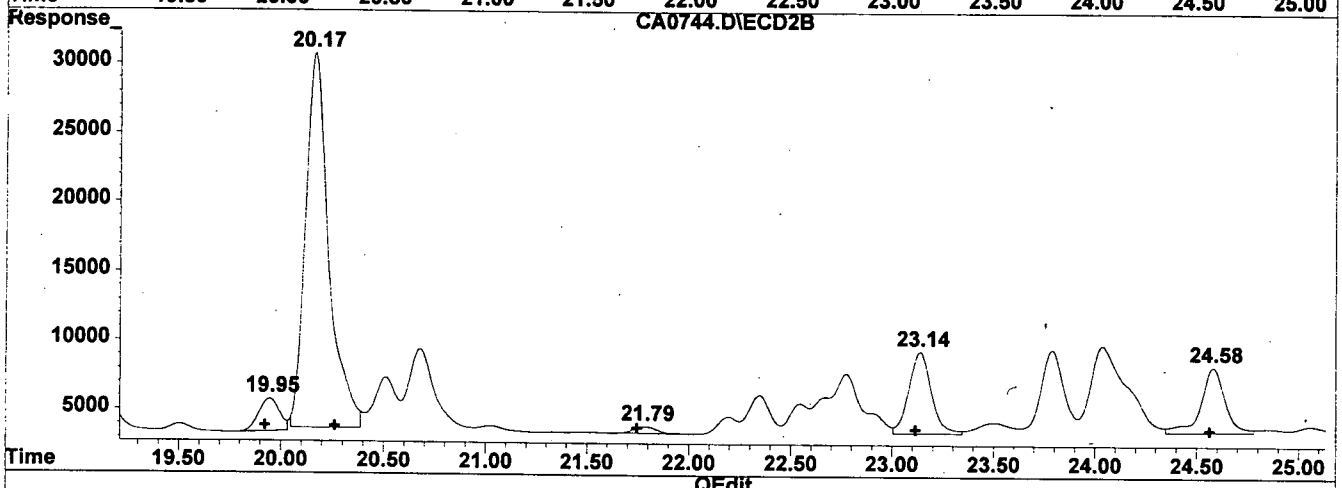
Quantitation Report

Signal #1 : I:\CA0744.D\ECD1A.CH
Signal #2 : I:\CA0744.D\ECD2B.CH
Acq On : 15 Jul 97 13:47
Sample : 266312 20X
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 19:58 1997 Quant Results File: CLP2_3.RES

Vial: 3
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(45) Aroclor-1254{1} #2 (L6)

R.T.	Response	Conc
17.27	1043245	869.90
18.23	1095126	1085.59
20.50	1116061	910.65
21.27	642648	1063.10
22.48	722517	1192.37

(45) Aroclor-1254{1} #2 (L6)

R.T.	Response	Conc
19.95	163737	350.15
20.17	2133598	3872.38
21.79	36288	175.18
23.14	458268	514.22
24.58	396395	1021.02

(+) = Expected Retention Time

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE03

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266313

Sample wt/vol: 30.3 (g/mL) G Lab File ID: CA0673

% Moisture: 9. decanted: (Y/N) N Date Received: 06/27/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/10/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan Sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	36.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	510.	J ~~P~~
11096-82-5	Aroclor-1260	36.	U

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\DATA_03\CA0673.D\ECD1A.CH Vial: 11
Signal #2 : C:\DATA_03\CA0673.D\ECD2B.CH
Acq On : 10 Jul 97 00:51 Operator:
Sample : 266313 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 23 10:29 1997 Quant Results File: CLP_3.RES

Quant Method : I:\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
System Monitoring Compounds							
1) SA Tetrachloro-m-xy	7.16	7.98	452279	153598	20.789	20.289	
Spiked Amount 20.000 Range 60 - 150 Recovery =					103.95%	101.45%	
22) SA Decachlorobiphen	34.61	40.42	512330	240186	18.395	20.950m	
Spiked Amount 20.000 Range 60 - 150 Recovery =					91.97%	104.75%	
Target Compounds							
23) L1 Aroclor-1016{1}	9.03	0.00	317567	0	559.086	N.D.	#
24) L1 Aroclor-1016{2}	0.00	12.51	0	76327	N.D.	415.356	#
25) L1 Aroclor-1016{3}	12.49	14.26	873728	77059	1082.465	211.779	#
26) L1 Aroclor-1016{4}	13.60	15.08	107227	55511	437.504	532.076	
27) L1 Aroclor-1016{5}	15.23	17.66	340687	216918	369.623	866.187	#
Sum Aroclor-1016			1639209	425814	2448.678	2025.398	
Average Aroclor-1016					612.169 µg	506.350 µg	
28) L2 Aroclor-1221{3}	9.03	0.00	317567	0	1118.173	N.D.	#
Sum Aroclor-1221			317567	0	1118.173	N.D.	
Average Aroclor-1221					1118.173 µg	0.000	
31) L3 Aroclor-1232{1}	9.03	0.00	317567	0	559.086	N.D.	#
32) L3 Aroclor-1232{2}	0.00	12.51	0	76327	N.D.	415.356	#
33) L3 Aroclor-1232{3}	12.49	14.26	873728	77059	1082.465	211.779	#
34) L3 Aroclor-1232{4}	15.23	15.08	340687	55511	369.623	532.076	#
Sum Aroclor-1232			1531982	208897	2011.174	1159.211	
Average Aroclor-1232					670.391 µg	386.404 µg	
35) L4 Aroclor-1242{1}	9.03	0.00	317567	0	547.093	N.D.	#
36) L4 Aroclor-1242{2}	0.00	12.51	0	76327	N.D.	215.647	#
37) L4 Aroclor-1242{3}	12.49	14.26	873728	77059	486.289	108.222	#
38) L4 Aroclor-1242{4}	13.60	15.08	107227	55511	210.789	303.090	#
39) L4 Aroclor-1242{5}	15.23	17.66	340687	216918	271.007	565.380	#
Sum Aroclor-1242			1639209	425814	1515.177	1192.340	
Average Aroclor-1242					378.794 µg	298.085 µg	
40) L5 Aroclor-1248{1}	0.00	12.51	0	76327	N.D.	457.919	#
41) L5 Aroclor-1248{2}	12.49	14.26	873728	77059	650.809	135.479	#

DMW 7/23/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\DATA_03\CA0673.D\ECD1A.CH Vial: 11
Signal #2 : C:\DATA_03\CA0673.D\ECD2B.CH
Acq On : 10 Jul 97 00:51 Operator:
Sample : 266313 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 23 10:29 1997 Quant Results File: CLP_3.RES

Quant Method : I:\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
42) L5	Aroclor-1248{3}	15.23	17.66	340687	216918	211.195	459.101 #
43) L5	Aroclor-1248{4}	0.00	19.02	0	1935072	N.D.	3858.067 #
44) L5	Aroclor-1248{5}	16.73	0.00	279882	0	527.479	N.D. #
Sum	Aroclor-1248			1494297	2305375	1389.482	4910.566
Average	Aroclor-1248					463.161 NP	1227.641 NP
46) L6	Aroclor-1254{1}	17.17	19.81	3007221	598602	2211.302	1155.845m#
46) L6	Aroclor-1254{2}	18.08	20.15	2585448	817124	2291.836m	1292.165m#
47) L6	Aroclor-1254{3}	20.36	21.65	3245774	225258	2098.535	700.418 #
48) L6	Aroclor-1254{4}	21.67	22.99	4680622	1172201	5037.470	1284.051 #
49) L6	Aroclor-1254{5}	22.33	24.43	3740262	1527316	5096.026	2571.024m#
Sum	Aroclor-1254			17259327	4340501	16735.170	7003.503
Average	Aroclor-1254					3347.034	1400.701
50) L7	Aroclor-1260{1}	20.36	22.99	3245774	1172201	4394.495	2117.231 #
51) L7	Aroclor-1260{2}	21.13	23.97	2192784	940856	1687.665	1501.220
52) L7	Aroclor-1260{3}	22.33	24.43	3740262	1808913	2505.870	2427.162
53) L7	Aroclor-1260{4}	25.89	0.00	2030848	0	2230.329	N.D. #
54) L7	Aroclor-1260{5}	27.41	29.76	1457142	530932	685.514	398.541 #
Sum	Aroclor-1260			12666810	4452902	11503.873	6444.154
Average	Aroclor-1260					2300.775 NP	1611.039 NP
55) L8	Toxaphene{1}	17.90	23.64	254.1E6	2260255	1338117.354	16512.169
Sum	Toxaphene			254.1E6	2260255	1338117.354	16512.169
Average	Toxaphene					1338117.354 NT	16512.169 NT

DMW 7/23/97

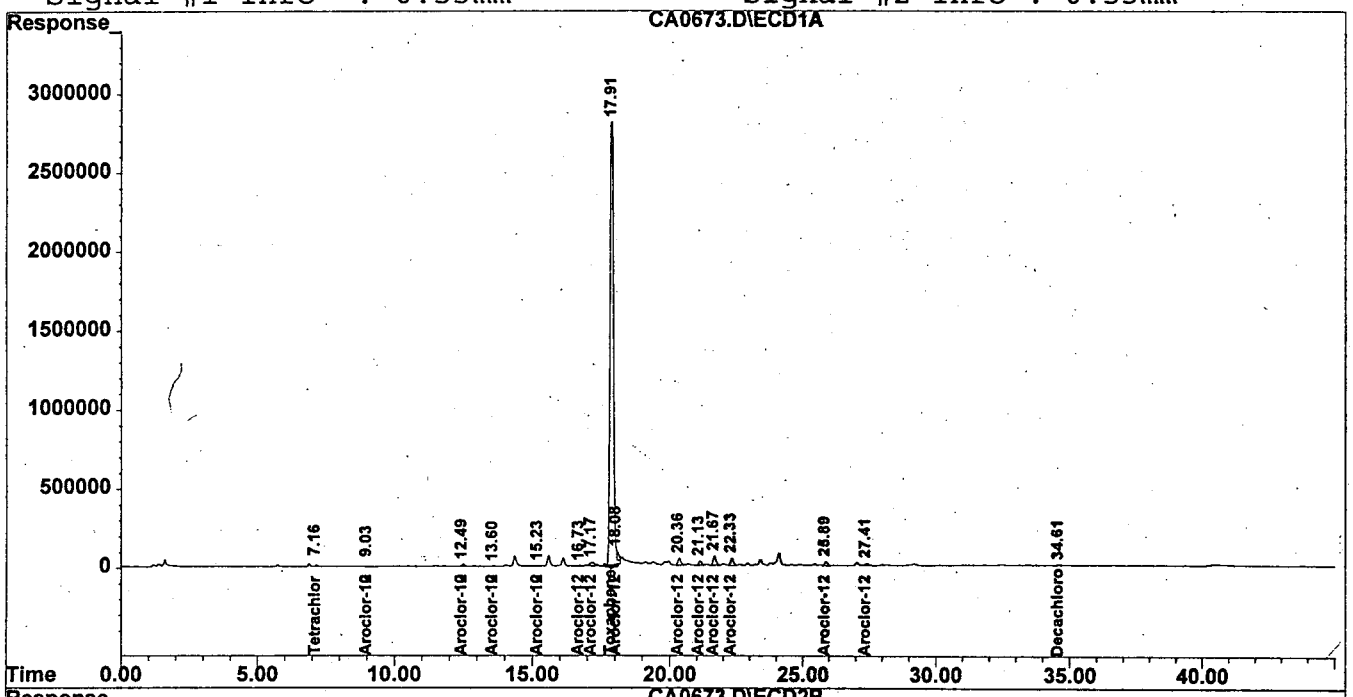
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

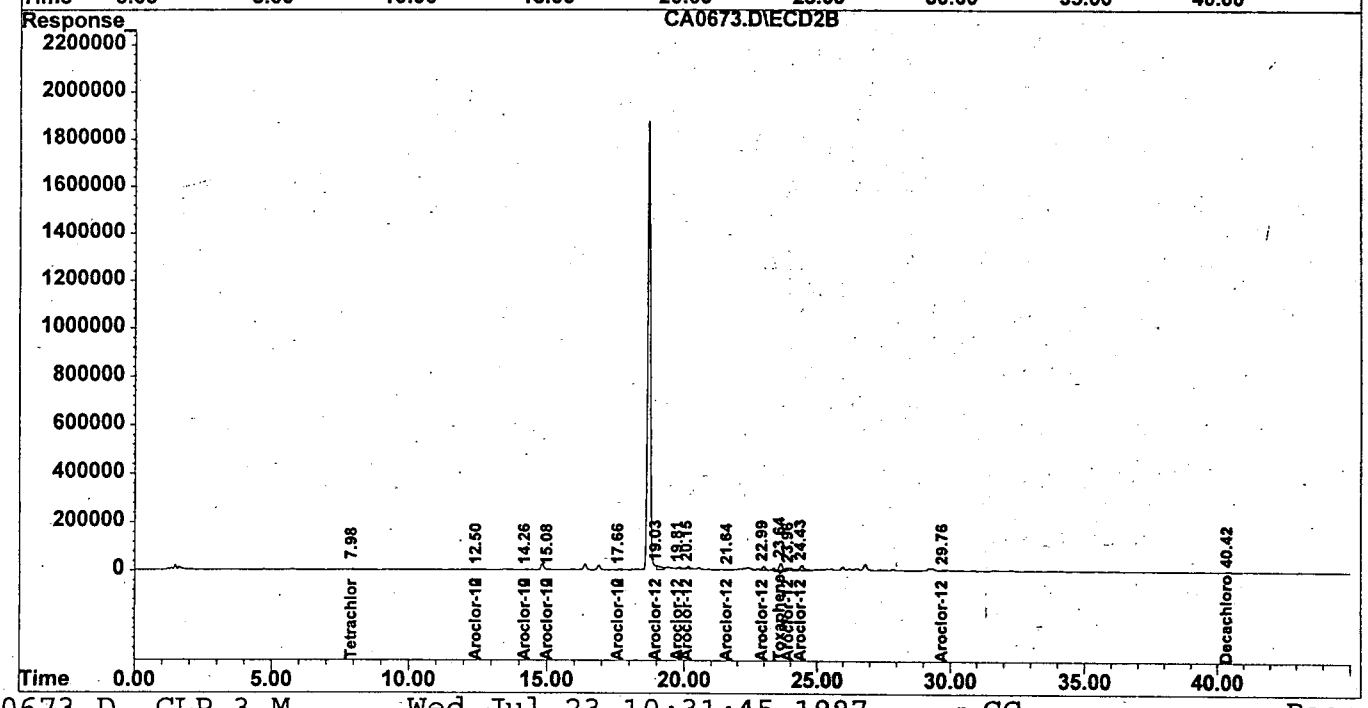
Quantitation Report

Signal #1 : C:\DATA_03\CA0673.D\ECD1A.CH Vial: 11
Signal #2 : C:\DATA_03\CA0673.D\ECD2B.CH
Acq On : 10 Jul 97 00:51 Operator:
Sample : 266313 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 23 10:29 1997 Quant Results File: CLP_3.RES

Quant Method : I:\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

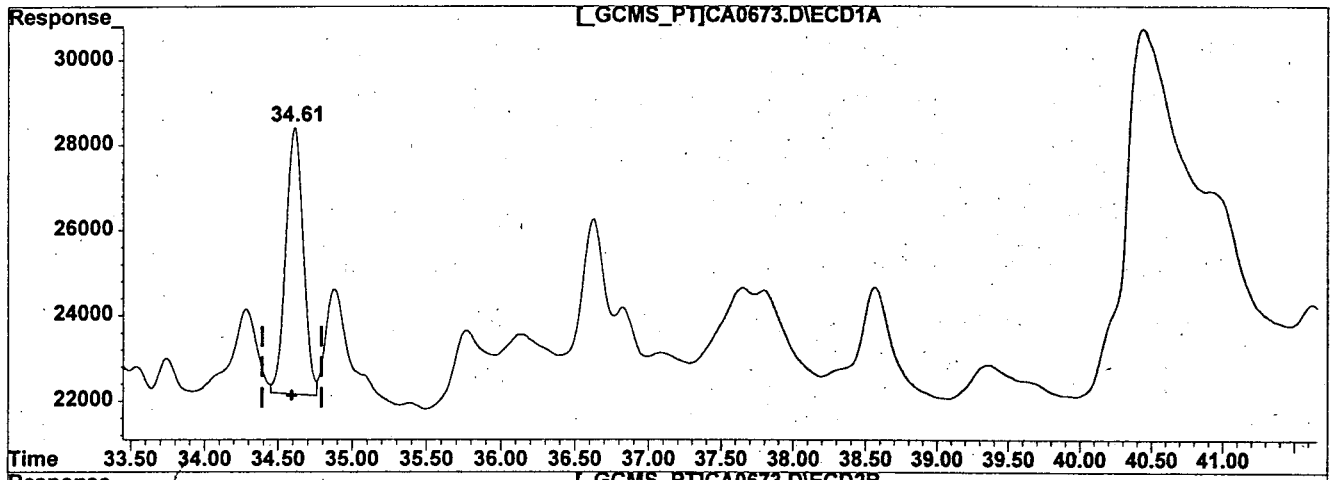


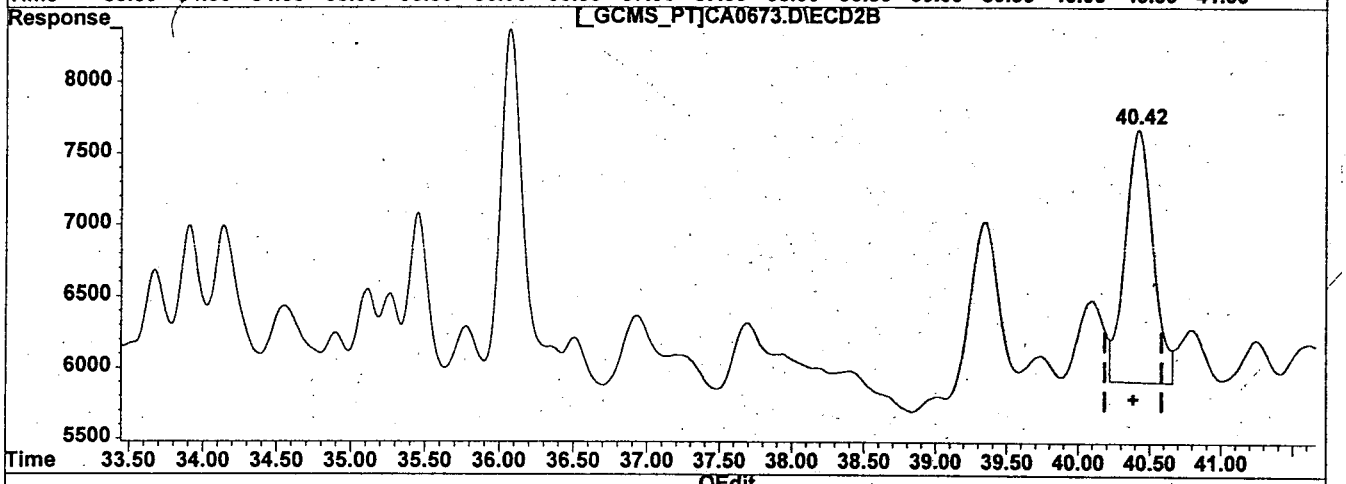


Quantitation Report

Signal #1 : C:\DATA_03\CA0673.D\ECD1A.CH Vial: 11
Signal #2 : C:\DATA_03\CA0673.D\ECD2B.CH
Acq On : 10 Jul 97 00:51 Operator:
Sample : 266313 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 23 10:29 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

34.61min 18.395ng/ml

response 512330

(22) Decachlorobiphenyl #2 (SA)

40.42min 20.950ng/ml m

response 240186

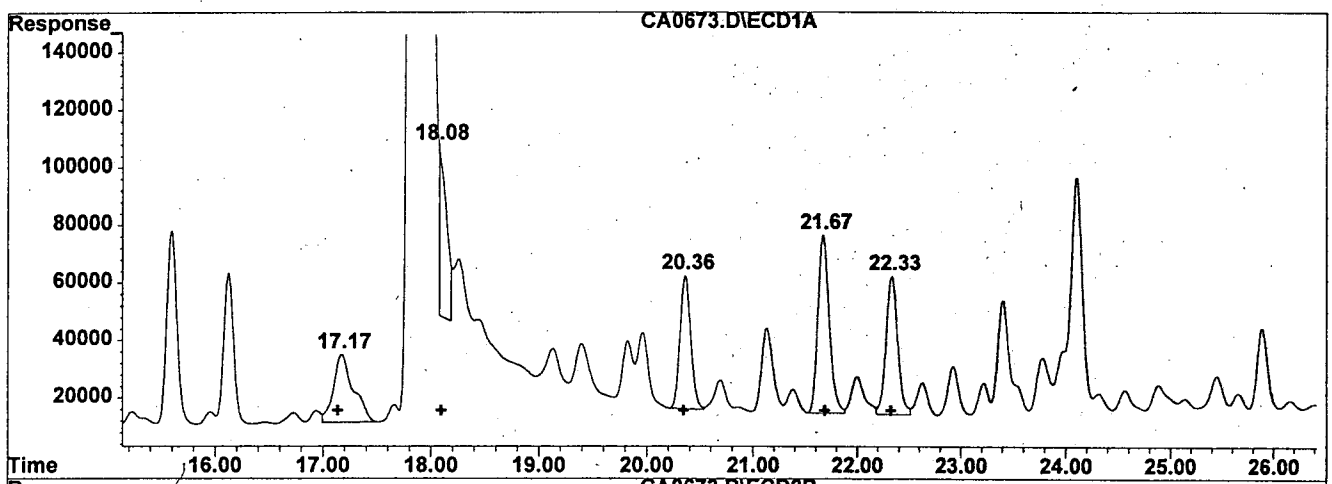
(+) = Expected Retention Time

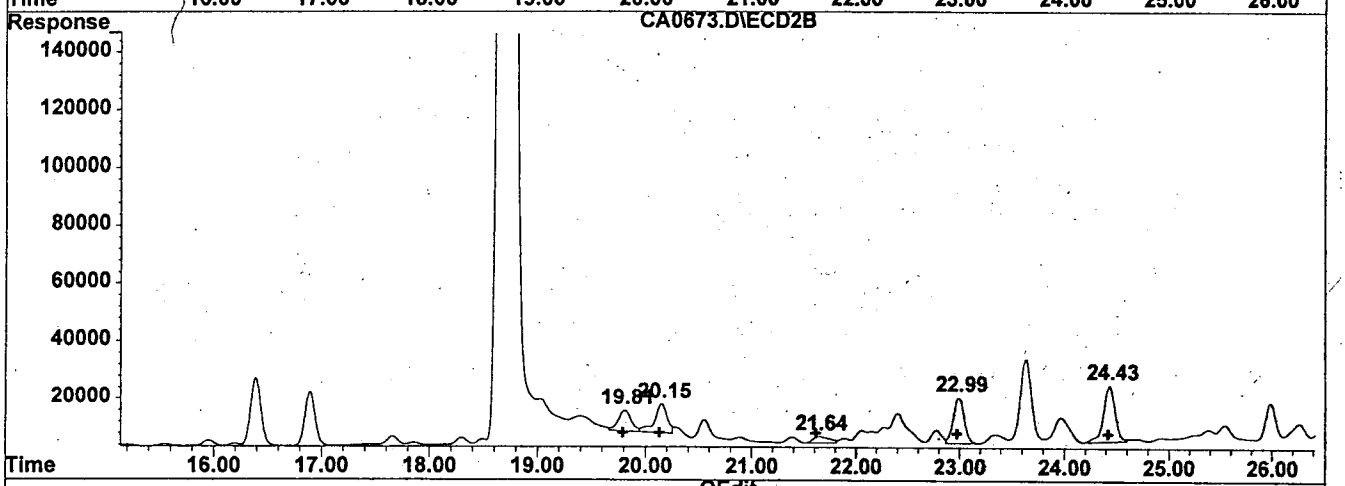
CA0673.D CLP_3.M Wed Jul 23 10:34:27 1997 GC

Quantitation Report

Signal #1 : C:\DATA_03\CA0673.D\ECD1A.CH Vial: 11
Signal #2 : C:\DATA_03\CA0673.D\ECD2B.CH
Acq On : 10 Jul 97 00:51 Operator:
Sample : 266313 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 17 11:09 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(45) Aroclor-1254{1} #2 (L6)

R.T.	Response	Conc
17.17	3007221	2211.30
18.08	2585448	2291.84
20.36	3245774	2098.54
21.67	4680622	5037.47
22.33	3740262	5096.03

(45) Aroclor-1254{1} #2 (L6)

R.T.	Response	Conc
19.81	598602	1155.84
20.15	817124	1292.16
21.65	225258	700.42
22.99	1172201	1284.05
24.43	1527316	2571.02

(+) = Expected Retention Time

CA0673.D CLP_3.M Wed Jul 23 10:30:42 1997 GC

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE04

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266314

Sample wt/vol: 30.2 (g/mL) G Lab File ID: CA0658

% Moisture: 19. decanted: (Y/N) N Date Received: 06/27/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/02/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan Sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	21.	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210.	U
12674-11-2	Aroclor-1016	41.	U
11104-28-2	Aroclor-1221	41.	U
11141-16-5	Aroclor-1232	41.	U
53469-21-9	Aroclor-1242	41.	U
12672-29-6	Aroclor-1248	41.	U
11097-69-1	Aroclor-1254	46.	J P J
11096-82-5	Aroclor-1260	41.	U

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\DATA_03\CA0658.D\ECD1A.CH Vial: 22
Signal #2 : C:\DATA_03\CA0658.D\ECD2B.CH
Acq On : 9 Jul 97 8:37 Operator:
Sample : 266314 Inst : GC_5890_3
Misc : QPC7100 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 15 17:05 1997 Quant Results File: CLP_3.RES

Quant Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.20	8.02	400151	131153	18.393	17.324
Spiked Amount 20.000 Range 60 - 150 Recovery =					91.97%	86.62%
22) SA Decachlorobiphen	34.63	40.44	492123	220385	17.669m	19.223
Spiked Amount 20.000 Range 60 - 150 Recovery =					88.35%	96.11%
Target Compounds						
13) MA Dieldrin	20.73	0.00	54957	0	2.904	N.D. #
14) MA Endrin	21.72	24.47	333329	120087	21.027	17.703
17) MA 4,4'-DDT	24.90	26.87	123645	179614	14.856	34.533 #
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
43) L5 Aroclor-1248{4}	0.00	19.08	0	25819	N.D.	51.476 #
Sum Aroclor-1248			0	25819	N.D.	51.476
Average Aroclor-1248					0.000	51.476
45) L6 Aroclor-1254{1}	17.21	19.86	93966	52690	69.096m	101.740m#
46) L6 Aroclor-1254{2}	18.16	20.19	103575	67102	91.813	106.112m
47) L6 Aroclor-1254{3}	20.40	21.70	175563	15424	113.509	47.959m#
48) L6 Aroclor-1254{4}	21.72	23.03	270676	93576	291.312m	102.505m#
49) L6 Aroclor-1254{5}	22.37	24.47	421082	121218	573.715m	204.054m#
Sum Aroclor-1254			1064862	350010	1139.445	562.370
Average Aroclor-1254					227.889	112.474
50) L7 Aroclor-1260{1}	20.40	23.03	175563	89527	237.696	161.705 #
51) L7 Aroclor-1260{2}	21.17	24.01	149738	71458	115.245	114.017

Pmd 7/17/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\DATA_03\CA0658.D\ECD1A.CH Vial: 22
Signal #2 : C:\DATA_03\CA0658.D\ECD2B.CH
Acq On : 9 Jul 97 8:37 Operator:
Sample : 266314 Inst : GC_5890_3
Misc : QPC7100 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 15 17:05 1997 Quant Results File: CLP_3.RES

Quant Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
52) L7	Aroclor-1260{3}	22.37	24.47	688318	120087	461.153	161.130	#
53) L7	Aroclor-1260{4}	25.92	0.00	150300	0	165.063	N.D.	#
54) L7	Aroclor-1260{5}	27.43	29.78	148666	29387	69.940	22.059	#
Sum	Aroclor-1260			1312583	310459	1049.097	458.911	
Average	Aroclor-1260					209.819 NP	114.728 NP	
55) L8	Toxaphene{1}	17.86	23.68	18945	114238	99.786	834.561	#
Sum	Toxaphene			18945	114238	99.786	834.561	
Average	Toxaphene					99.786 NT	834.561 NT	

7/17/97

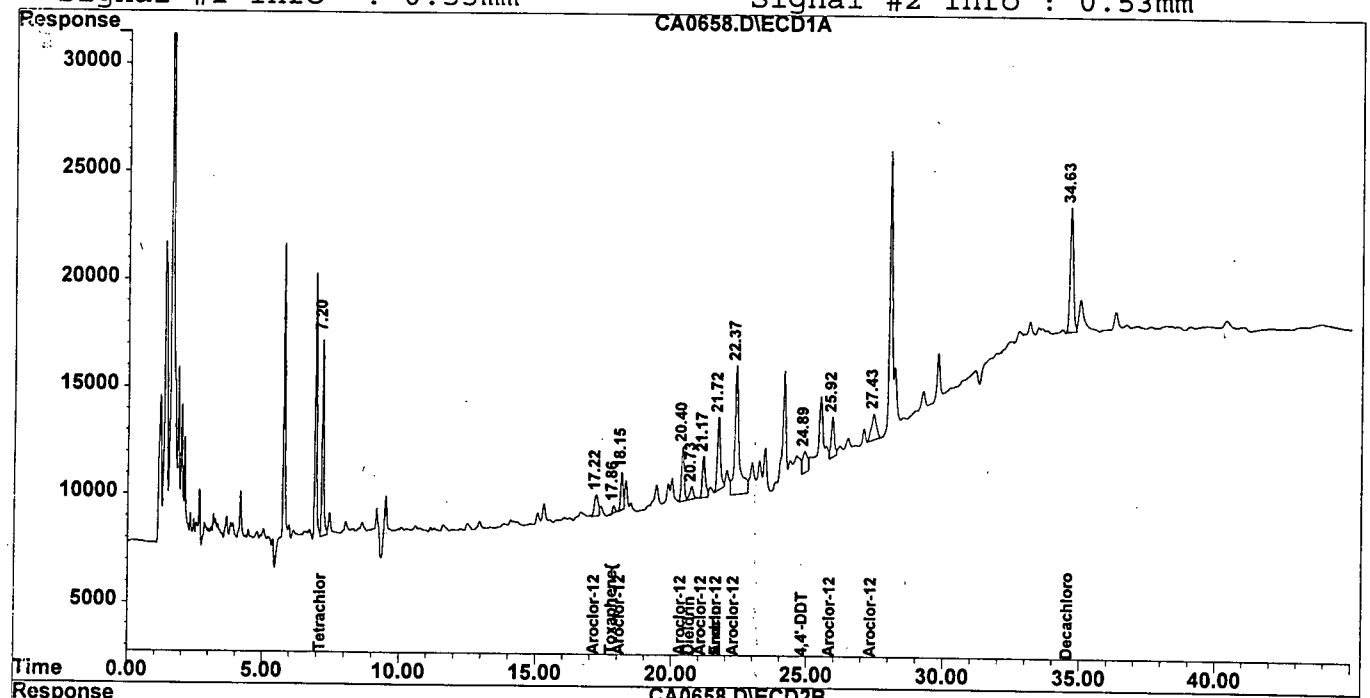
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

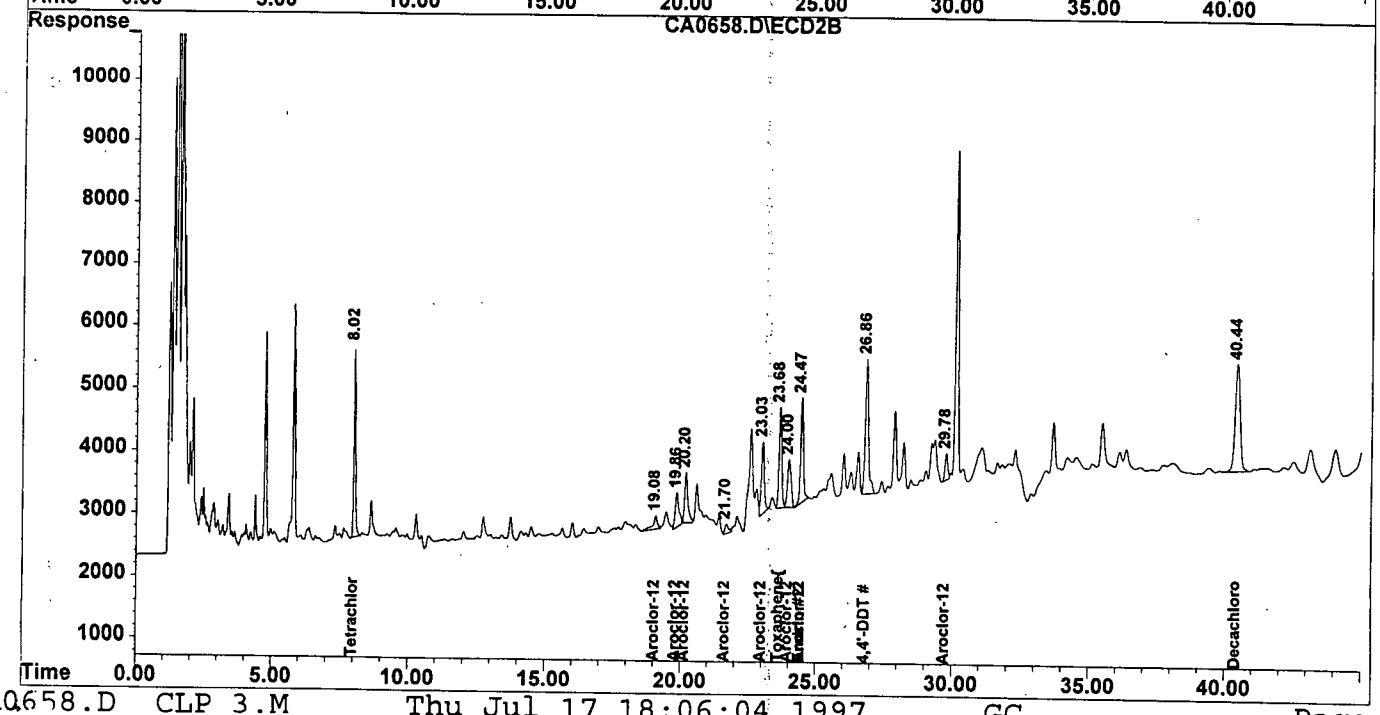
Quantitation Report

Signal #1 : C:\DATA_03\CA0658.D\ECD1A.CH Vial: 22
Signal #2 : C:\DATA_03\CA0658.D\ECD2B.CH
Acq On : 9 Jul 97 8:37 Operator:
Sample : 266314 Inst : GC_5890_3
Misc : QPC7100 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 15 17:05 1997 Quant Results File: CLP_3.RES

Quant Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

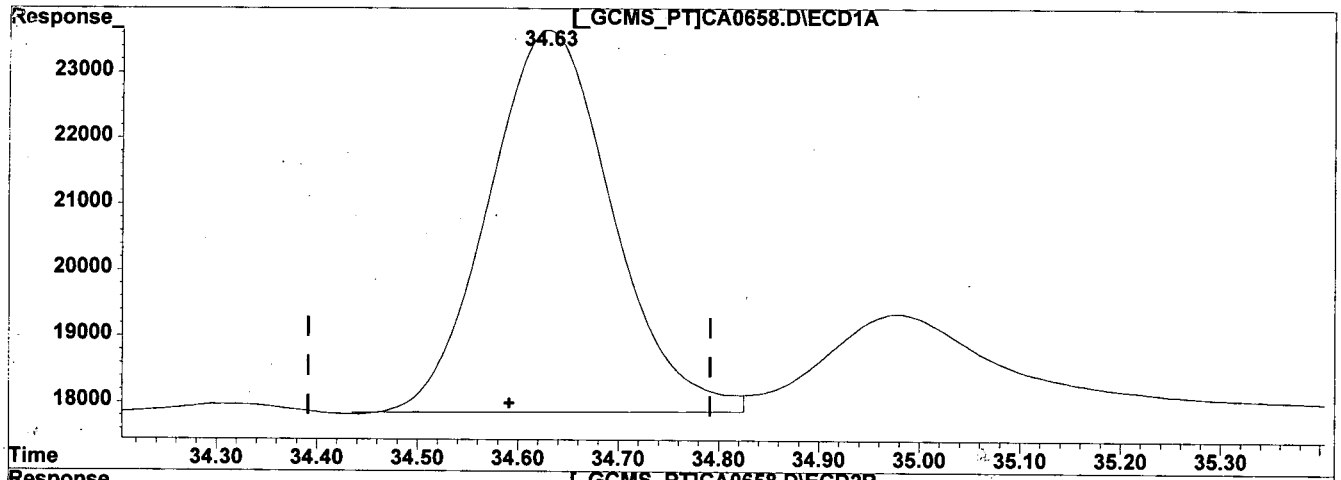


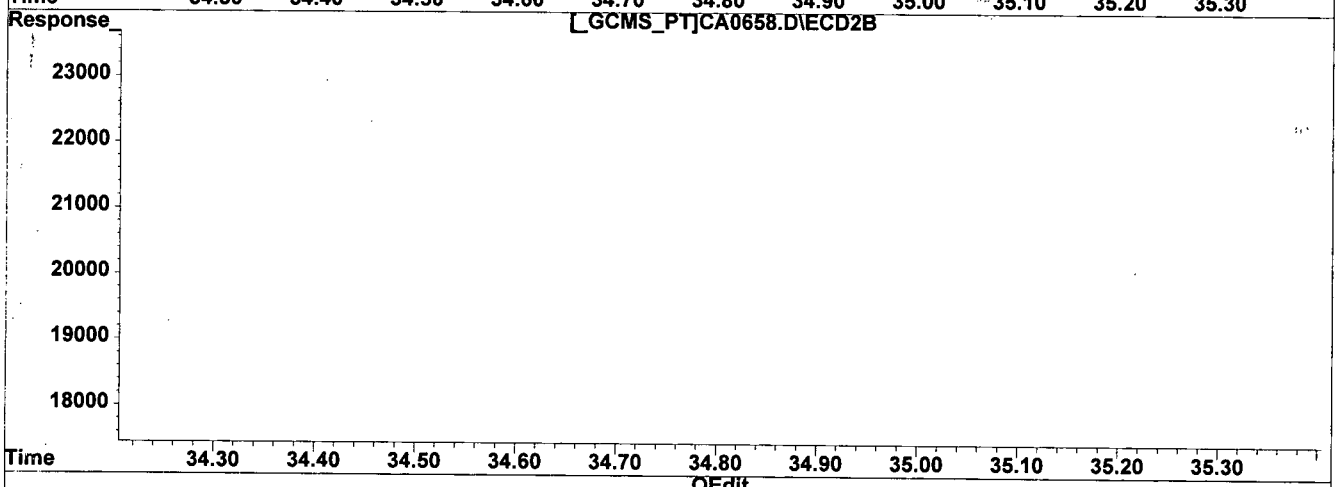


Quantitation Report

Signal #1 : C:\DATA_03\CA0658.D\ECD1A.CH Vial: 22
Signal #2 : C:\DATA_03\CA0658.D\ECD2B.CH
Acq On : 9 Jul 97 8:37 Operator:
Sample : 266314 Inst : GC_5890_3
Misc : QPC7100 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 17 18:16 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





(22) Decachlorobiphenyl (SA)

34.63min 17.669ng/ml m

response 492123

(22) Decachlorobiphenyl #2 (SA)

40.44min 19.223ng/ml

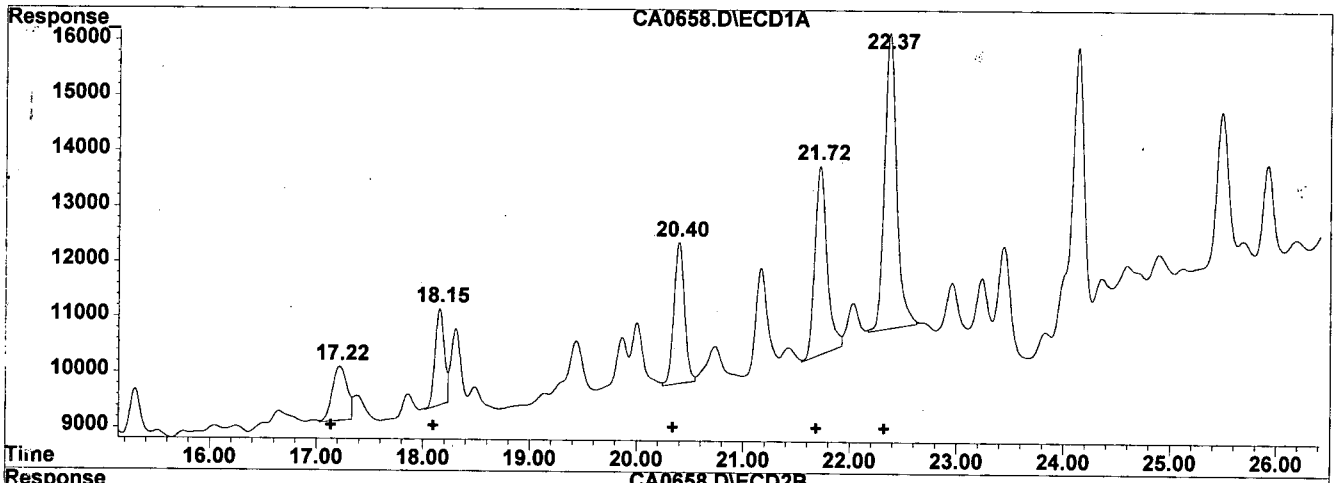
response 220385

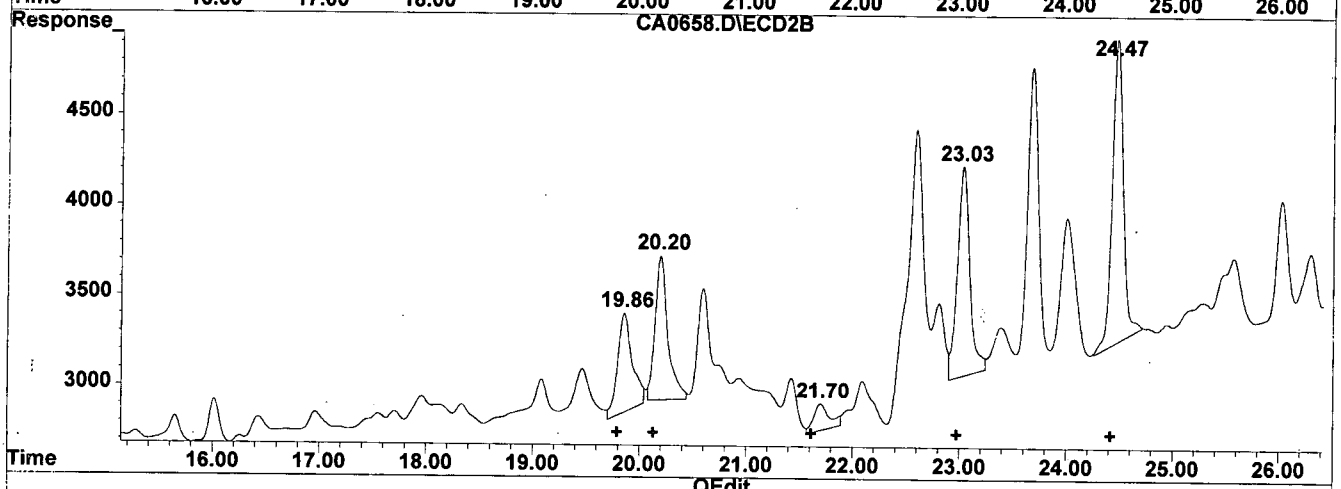
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\DATA_03\CA0658.D\ECD1A.CH Vial: 22
Signal #2 : C:\DATA_03\CA0658.D\ECD2B.CH
Acq On : 9 Jul 97 8:37 Operator:
Sample : 266314 Inst : GC_5890_3
Misc : QPC7100 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 17 18:16 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(45) Aroclor-1254{1} (L6)

R.T.	Response	Conc
17.21	93966	69.10
18.16	103575	91.81
20.40	175563	113.51
21.72	270676	291.31
22.37	421082	573.72

(45) Aroclor-1254{1} #2 (L6)

R.T.	Response	Conc
19.86	52690	101.74
20.19	67102	106.11
21.70	15424	47.96
23.03	93576	102.50
24.47	121218	204.05

(+) = Expected Retention Time

CA0658.D CLP_3.M Tue Jul 22 08:56:12 1997 GC

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE05

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266315

Sample wt/vol: 30.0 (g/mL) G Lab File ID: CA0738

% Moisture: 11. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/15/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan Sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190.	U
12674-11-2	Aroclor-1016	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	220.	J P
11096-82-5	Aroclor-1260	38.	U

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0738.D\ECD1A.CH Vial: 20
Signal #2 : I:\CA0738.D\ECD2B.CH
Acq On : 15 Jul 97 6:37 Operator:
Sample : 266315 Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:31 1997 Quant Results File: CLP2_3.RES

Quant Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.22	8.04	412366	128647	20.381	18.353
Spiked Amount 20.000 Range 60 - 150 Recovery =					101.91%	91.77%
22) SA Decachlorobiphen	34.80	40.68	456151	160412	18.339	15.346
Spiked Amount 20.000 Range 60 - 150 Recovery =					91.69%	76.73%
Target Compounds						
4) MA Heptachlor	12.98	0.00	83070	0	~~3.195~~	N.D. #
3) MA Dieldrin	0.00	22.54	0	128791	N.D.	~~19.585~~ #
4) MA Endrin	21.80	24.57	1162196	543949	~~74.885~~	~~82.581~~
17) MA 4,4'-DDT	0.00	26.97	0	2500242	N.D.	~~502.442~~ #
23) L1 Aroclor-1016{1}	9.09	0.00	691416	0	1066.605	N.D. #
5) L1 Aroclor-1016{3}	12.60	14.36	60729	17281	29.137	20.030 #
26) L1 Aroclor-1016{4}	13.66	0.00	83849	0	129.669	N.D. #
27) L1 Aroclor-1016{5}	0.00	17.80	0	108622	N.D.	453.006 #
Sum Aroclor-1016			835994	125903	1225.411	473.036
verage Aroclor-1016					408.470	236.518
30) L2 Aroclor-1221{3}	9.09	0.00	691416	0	755.357	N.D. #
Sum Aroclor-1221			691416	0	755.357	N.D.
Average Aroclor-1221					755.357	0.000
1) L3 Aroclor-1232{1}	9.09	0.00	691416	0	1305.494	N.D. #
3) L3 Aroclor-1232{3}	12.60	14.36	60729	17281	81.715	51.506 #
Sum Aroclor-1232			752144	17281	1387.209	51.506
verage Aroclor-1232					693.604	51.506
35) L4 Aroclor-1242{1}	9.09	0.00	691416	0	1488.108	N.D. #
37) L4 Aroclor-1242{3}	12.60	14.36	60729	17281	37.470	27.254 #
8) L4 Aroclor-1242{4}	13.66	0.00	83849	0	181.513	N.D. #
39) L4 Aroclor-1242{5}	0.00	17.80	0	108622	N.D.	474.830 #
Sum Aroclor-1242			835994	125903	1707.091	502.083
verage Aroclor-1242					569.030	251.042
41) L5 Aroclor-1248{2}	12.60	14.36	60729	17281	48.215	32.013 #
2) L5 Aroclor-1248{3}	0.00	17.80	0	108622	N.D.	327.865 #

7/22/97

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

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0738.D\ECD1A.CH Vial: 20
Signal #2 : I:\CA0738.D\ECD2B.CH
Acq On : 15 Jul 97 6:37 Operator:
Sample : 266315 Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:31 1997 Quant Results File: CLP2_3.RES

Quant Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
43)	L5 Aroclor-1248{4}	0.00	19.16	0	87352	N.D.	254.967	#
44)	L5 Aroclor-1248{5}	0.00	21.03	0	37596	N.D.	93.115	#
	Sum Aroclor-1248			60729	250851	48.215	707.960	
	Average Aroclor-1248					48.215	176.990	
45)	L6 Aroclor-1254{1}	17.29	19.93	556750	138431	464.240	296.033	#
46)	L6 Aroclor-1254{2}	18.23	20.28	535500	242496	530.838	440.118	
47)	L6 Aroclor-1254{3}	20.48	21.77	965817	56824	788.063	274.317	#
48)	L6 Aroclor-1254{4}	21.26	23.13	613329	410910	1014.598	461.083	#
49)	L6 Aroclor-1254{5}	22.46	24.57	1118212	543949	1845.381	1401.089	
	Sum Aroclor-1254			3789608	1392609	4643.119	2872.639	
	Average Aroclor-1254					928.624	574.528	
50)	L7 Aroclor-1260{1}	20.48	23.13	965817	410910	1454.281	1027.737	#
51)	L7 Aroclor-1260{2}	21.26	24.10	613329	311076	506.791	530.666	
52)	L7 Aroclor-1260{3}	22.46	24.57	1118212	543949	811.957	800.466	
53)	L7 Aroclor-1260{4}	26.03	0.00	650625	0	835.270	N.D.	#
54)	L7 Aroclor-1260{5}	0.00	29.90	0	166630	N.D.	139.498	#
	Sum Aroclor-1260			3347983	1432565	3608.300	2498.367	
	Average Aroclor-1260					902.075	624.592	
	Sum Toxaphene			0	0	N.D.	N.D.	
	Average Toxaphene					0.000	0.000	

JP 7/22/97

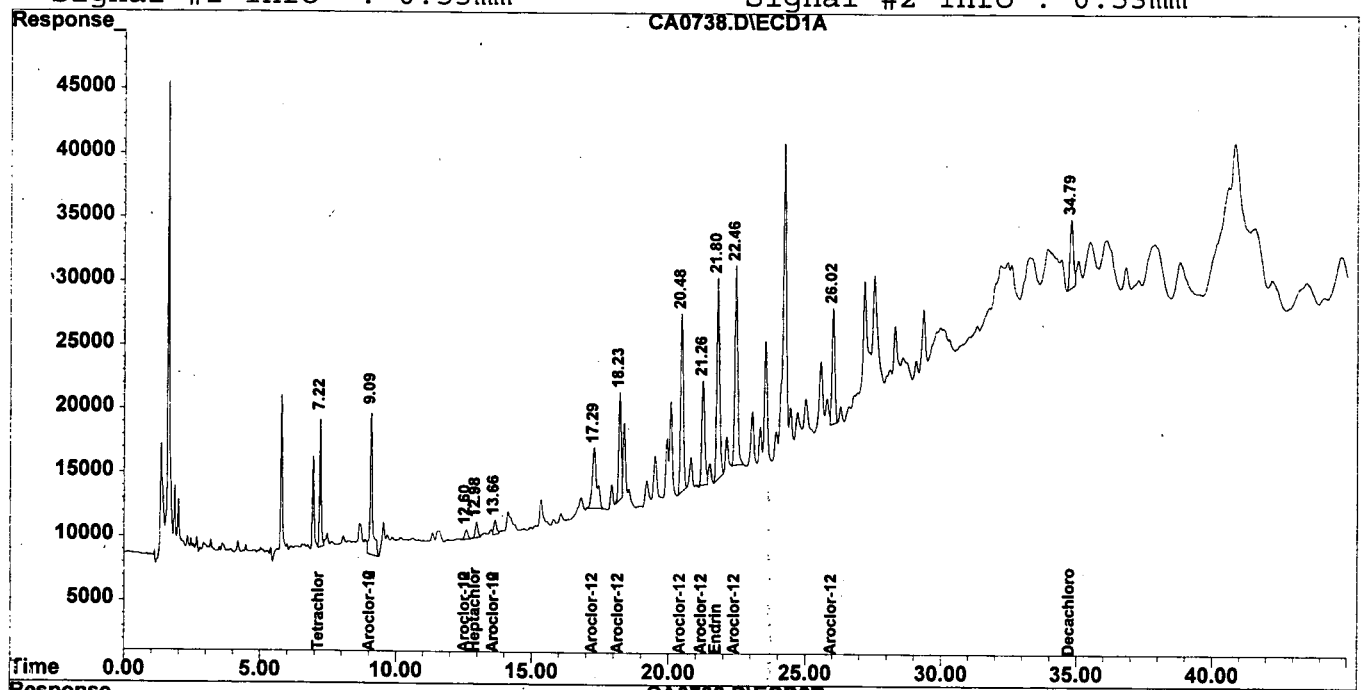
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

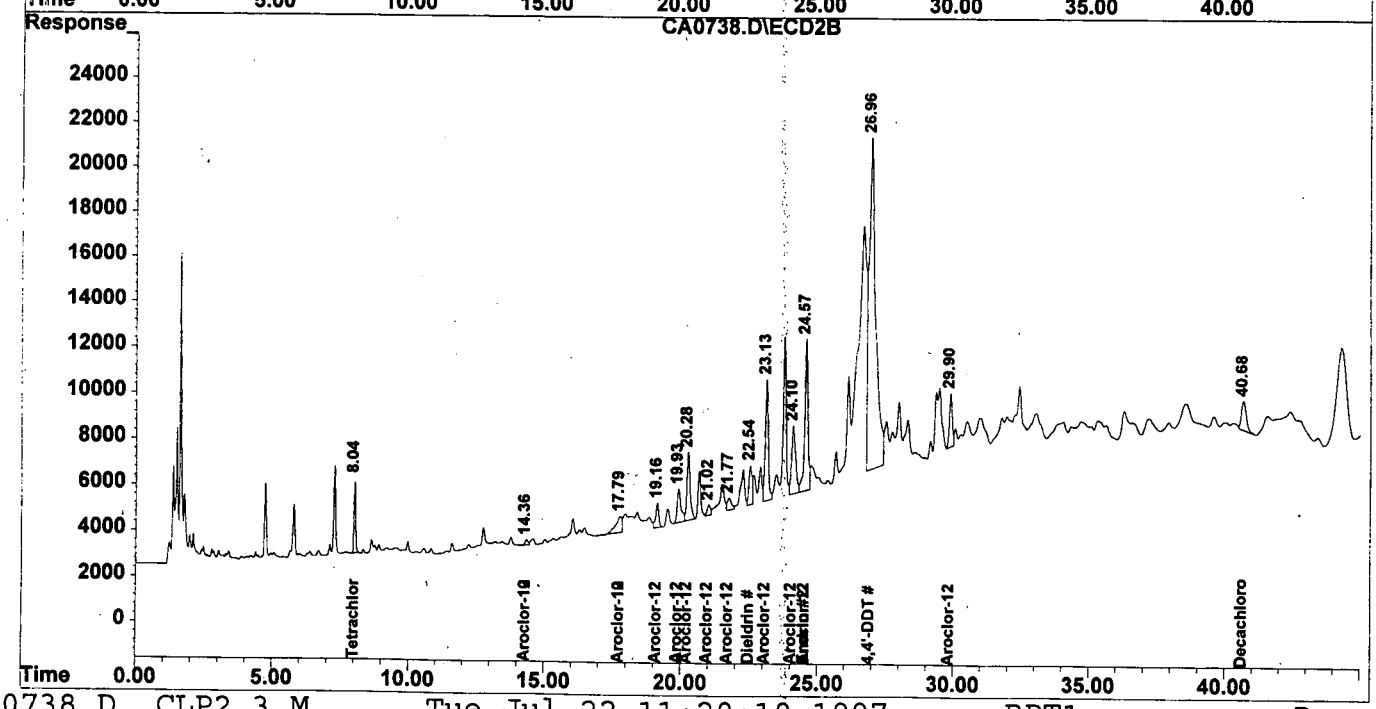
Quantitation Report

Signal #1 : I:\CA0738.D\ECD1A.CH Vial: 20
Signal #2 : I:\CA0738.D\ECD2B.CH
Acq On : 15 Jul 97 6:37 Operator:
Sample : 266315 Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:31 1997 Quant Results File: CLP2_3.RES

Quant Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm





1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE06

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266316

Sample wt/vol: 30.6 (g/mL) G Lab File ID: CA0669

% Moisture: 10. decanted: (Y/N) N Date Received: 06/27/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan Sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	36.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	270.	J P
11096-82-5	Aroclor-1260	36.	U

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : J:\CA0669.D\ECD1A.CH Vial: 7
Signal #2 : J:\CA0669.D\ECD2B.CH
Acq On : 9 Jul 97 21:36 Operator:
Sample : 266316 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:31 1997 Quant Results File: CLP_3.RES

Quant Method : I:\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.16	7.98	434659	141166	19.979	18.647
Spiked Amount 20.000 Range 60 - 150 Recovery =					99.90%	93.23%
22) SA Decachlorobiphen	34.61	40.41	566900	267222	20.354m	23.308m
Spiked Amount 20.000 Range 60 - 150 Recovery =					101.77%	116.54%
Target Compounds						
25) L1 Aroclor-1016{3}	12.50	0.00	69589	0	86.214	N.D. #
27) L1 Aroclor-1016{5}	15.23	17.66	225544	58362	244.700	233.049
Sum Aroclor-1016			295133	58362	330.914	233.049
Average Aroclor-1016					165.457 NP	233.049 NP
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
33) L3 Aroclor-1232{3}	12.50	0.00	69589	0	86.214	N.D. #
34) L3 Aroclor-1232{4}	15.23	0.00	225544	0	244.700	N.D. #
Sum Aroclor-1232			295133	0	330.914	N.D.
Average Aroclor-1232					165.457 NP	0.000
37) L4 Aroclor-1242{3}	12.50	0.00	69589	0	38.731	N.D. #
39) L4 Aroclor-1242{5}	15.23	17.66	225544	58362	179.414	152.116
Sum Aroclor-1242			295133	58362	218.145	152.116
Average Aroclor-1242					109.072 NP	152.116 NP
41) L5 Aroclor-1248{2}	12.50	0.00	69589	0	51.834	N.D. #
42) L5 Aroclor-1248{3}	15.23	17.66	225544	58362	139.816	123.522
43) L5 Aroclor-1248{4}	15.69	19.04	66090	168212	78.181	335.375 #
44) L5 Aroclor-1248{5}	16.71	0.00	202109	0	380.905	N.D. #
Sum Aroclor-1248			563332	226574	650.737	458.897
Average Aroclor-1248					162.684 NP	229.448 NP
45) L6 Aroclor-1254{1}	17.16	19.81	1185028	425147	871.387	820.919
46) L6 Aroclor-1254{2}	18.11	20.15	1331145	517449	1179.976	818.271 #

RMJ 7/14/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : J:\CA0669.D\ECD1A.CH Vial: 7
Signal #2 : J:\CA0669.D\ECD2B.CH
Acq On : 9 Jul 97 21:36 Operator:
Sample : 266316 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:31 1997 Quant Results File: CLP_3.RES

Quant Method : I:\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
47) L6	Aroclor-1254{3}	20.36	21.64	1666962	101245	1077.764	314.812	#
48) L6	Aroclor-1254{4}	21.68	22.99	1658390	622464	1784.825	681.859	#
49) L6	Aroclor-1254{5}	22.34	24.44	1614993	613066	2200.393	1032.012	#
Sum	Aroclor-1254			7456518	2279371	7114.345	3667.873	
Average	Aroclor-1254					1422.869	733.575	
50) L7	Aroclor-1260{1}	20.36	22.99	1666962	622464	2256.921	1124.296	#
51) L7	Aroclor-1260{2}	21.13	23.96	1049256	396844	807.565	633.200	
52) L7	Aroclor-1260{3}	22.34	24.44	1614993	613066	1082.000	822.599	
53) L7	Aroclor-1260{4}	25.89	0.00	695215	0	763.503	N.D.	#
54) L7	Aroclor-1260{5}	27.41	29.75	566652	126245	266.582	94.765	#
Sum	Aroclor-1260			5593078	1758619	5176.561	2674.860	
Average	Aroclor-1260					1035.312 NP	668.715 NP	
Sum	Toxaphene			0	0	N.D.	N.D.	
Average	Toxaphene					0.000	0.000	

DMW 7/14/97

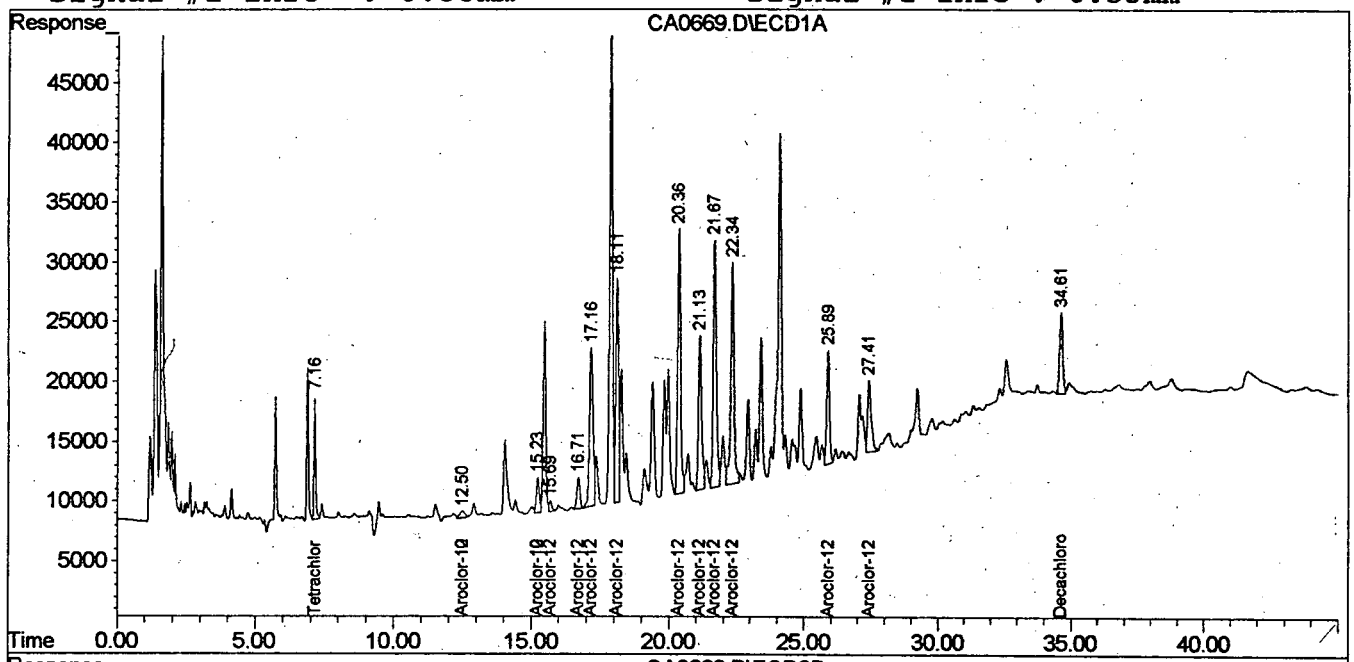
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

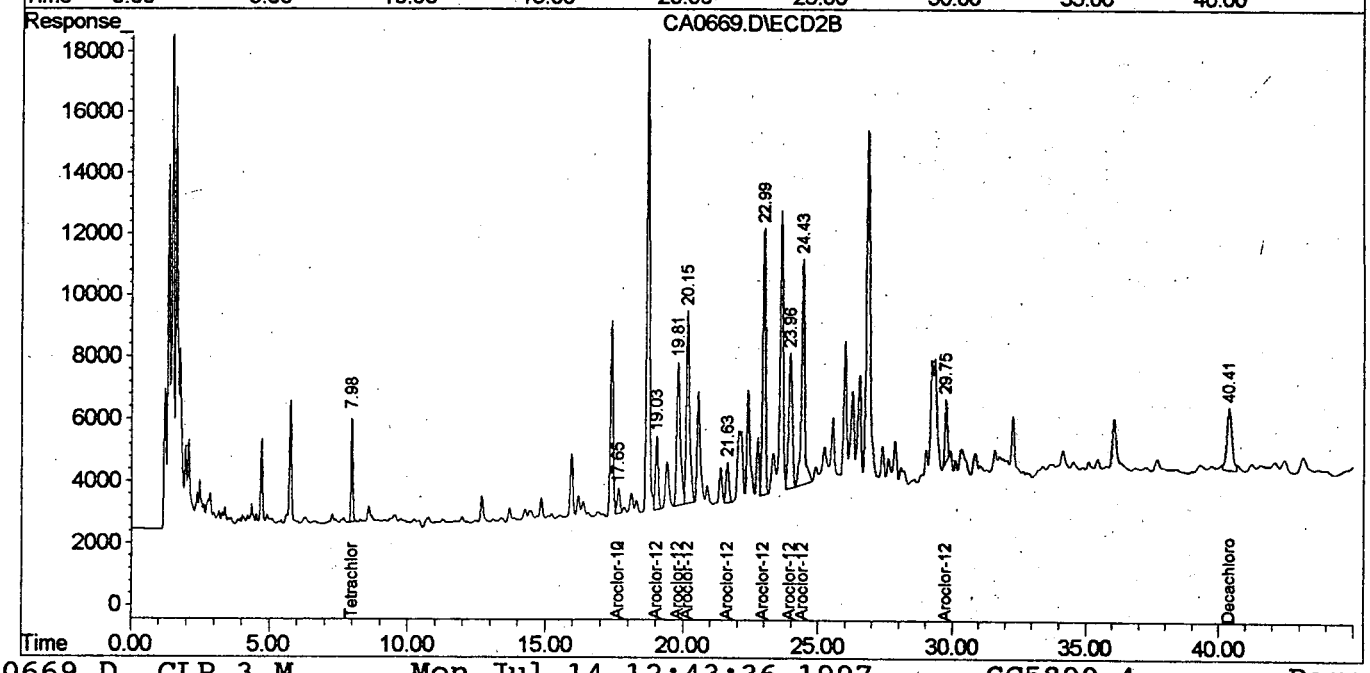
Quantitation Report

Signal #1 : J:\CA0669.D\ECD1A.CH Vial: 7
Signal #2 : J:\CA0669.D\ECD2B.CH
Acq On : 9 Jul 97 21:36 Operator:
Sample : 266316 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:31 1997 Quant Results File: CLP_3.RES

Quant Method : I:\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

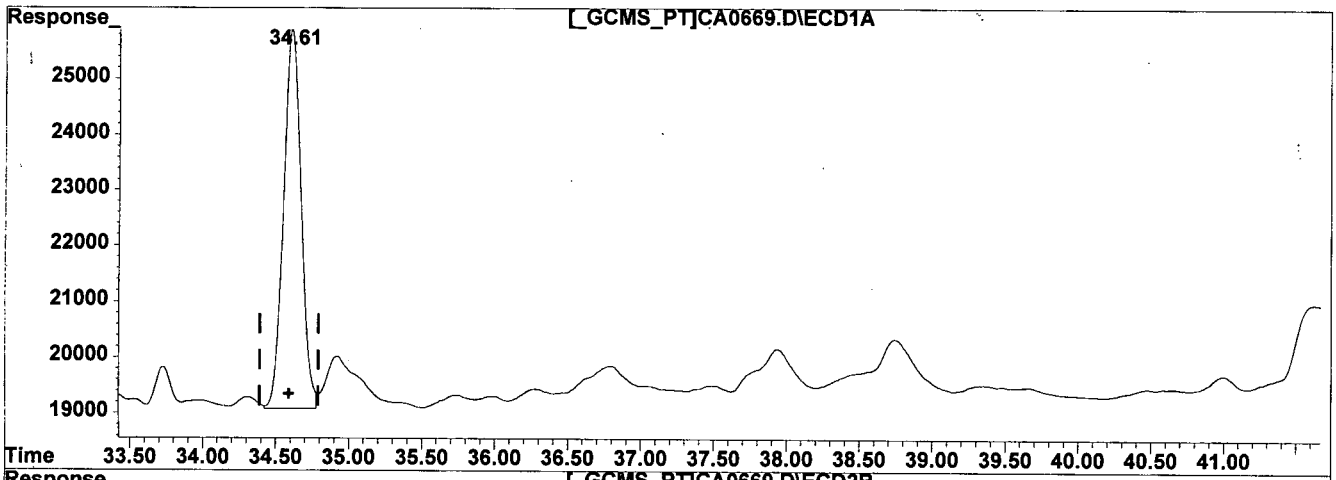


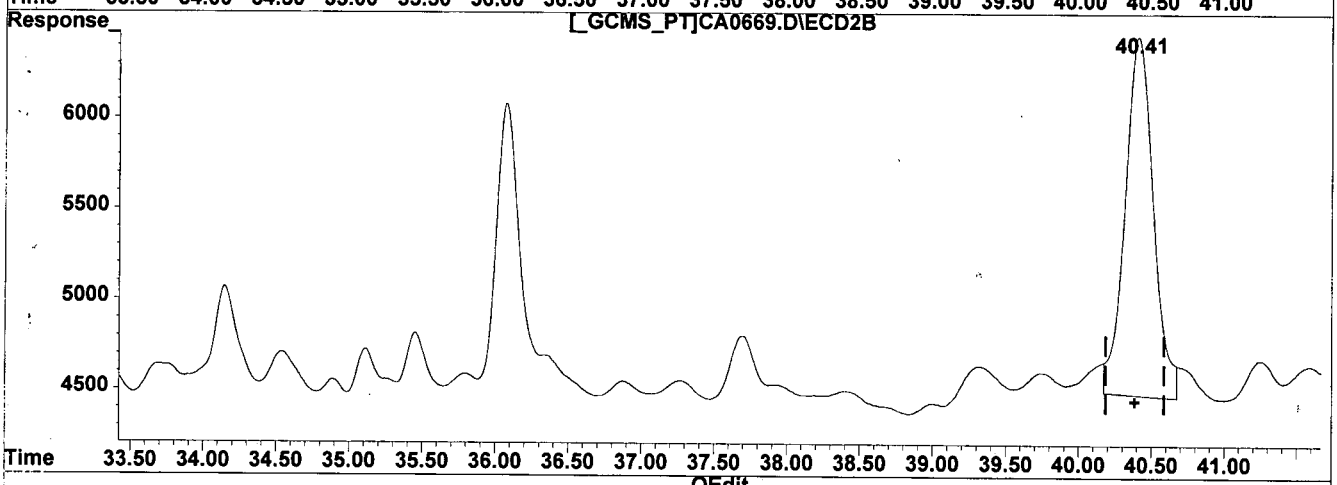


Quantitation Report

Signal #1 : C:\DATA_03\CA0669.D\ECD1A.CH Vial: 7
Signal #2 : C:\DATA_03\CA0669.D\ECD2B.CH
Acq On : 9 Jul 97 21:36 Operator:
Sample : 266316 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:31 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





(22) Decachlorobiphenyl (SA)

34.61min 20.354ng/ml m

response 566900

(22) Decachlorobiphenyl #2 (SA)

40.41min 23.308ng/ml m

response 267222

(+) = Expected Retention Time

CA0669.D CLP_3.M Tue Jul 22 08:57:40 1997 GC

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE07

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266317

Sample wt/vol: 30.4 (g/mL) G Lab File ID: CA0670

% Moisture: 13. decanted: (Y/N) N Date Received: 06/27/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan Sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190.	U
12674-11-2	Aroclor-1016	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	2600 ~~1300~~.	P *
11096-82-5	Aroclor-1260	38.	U

* Data transferred from 10x diluted Analysis.

Use this Data

FORM I PEST

OLM03.0

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : J:\CA0670.D\ECD1A.CH Vial: 8
Signal #2 : J:\CA0670.D\ECD2B.CH
Acq On : 9 Jul 97 22:25 Operator:
Sample : 266317 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:33 1997 Quant Results File: CLP_3.RES

Quant Method : I:\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.16	7.98	413059	138455	18.986	18.288
Spiked Amount 20.000 Range 60 - 150 Recovery =					94.93%	91.44%
22) SA Decachlorobiphen	34.61	40.42	598822	295886	21.500m	25.808m
Spiked Amount 20.000 Range 60 - 150 Recovery =					107.50%	129.04%
Target Compounds						
23) L1 Aroclor-1016{1}	9.03	0.00	486996	0	857.370	N.D. #
25) L1 Aroclor-1016{3}	12.51	14.25	111870	27225	138.596	74.822 #
26) L1 Aroclor-1016{4}	13.57	0.00	99347	0	405.353	N.D. #
27) L1 Aroclor-1016{5}	15.22	17.66	1136900	337739	1233.462	1348.644
Sum Aroclor-1016			1835113	364964	2634.780	1423.467
Average Aroclor-1016					658.695 ng	711.733 ng
30) L2 Aroclor-1221{3}	9.03	0.00	486996	0	1714.740	N.D. #
Sum Aroclor-1221			486996	0	1714.740	N.D.
Average Aroclor-1221					1714.740 ng	0.000
31) L3 Aroclor-1232{1}	9.03	0.00	486996	0	857.370	N.D. #
33) L3 Aroclor-1232{3}	12.51	14.25	111870	27225	138.596	74.822 #
34) L3 Aroclor-1232{4}	15.22	0.00	1136900	0	1233.462	N.D. #
Sum Aroclor-1232			1735766	27225	2229.428	74.822
Average Aroclor-1232					743.143 ng	74.822 ng
35) L4 Aroclor-1242{1}	9.03	0.00	486996	0	838.978	N.D. #
37) L4 Aroclor-1242{3}	12.51	14.25	111870	27225	62.263	38.235 #
38) L4 Aroclor-1242{4}	13.57	0.00	99347	0	195.298	N.D. #
39) L4 Aroclor-1242{5}	15.22	17.66	1136900	337739	904.373	880.292
Sum Aroclor-1242			1835113	364964	2000.912	918.527
Average Aroclor-1242					500.228 ng	459.263 ng
41) L5 Aroclor-1248{2}	12.51	14.25	111870	27225	83.328	47.865 #
42) L5 Aroclor-1248{3}	15.22	17.66	1136900	337739	704.774	714.816
43) L5 Aroclor-1248{4}	15.70	19.03	421623	769071	498.756	1533.342 #

2nd 7/14/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : J:\CA0670.D\ECD1A.CH Vial: 8
Signal #2 : J:\CA0670.D\ECD2B.CH
Acq On : 9 Jul 97 22:25 Operator:
Sample : 266317 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:33 1997 Quant Results File: CLP_3.RES

Quant Method : I:\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
44) L5	Aroclor-1248{5}	16.74	20.89	530618	232745	1000.028	654.357 #
Sum	Aroclor-1248			2201011	1366779	2286.886	2950.380
Average	Aroclor-1248					571.722 NP	737.595 NP
45) L6	Aroclor-1254{1}	17.16	19.81	6349795	1744059	4669.200	3367.617 #
46) L6	Aroclor-1254{2}	18.11	20.15	6581240	2378091	5833.853	3760.610 #
47) L6	Aroclor-1254{3}	20.36	21.64	9677935	653736	6257.209	2032.730 #
48) L6	Aroclor-1254{4}	21.67	22.99	7886824	3257300	8488.111	3568.108 #
49) L6	Aroclor-1254{5}	22.33	24.43	6415042	2735366	8740.355	4604.609 #
Sum	Aroclor-1254			36910836	10768553	33988.729	17333.674
Average	Aroclor-1254					6797.746	3466.735
50) L7	Aroclor-1260{1}	20.36	22.99	9677935	3257300	13103.080	5883.338 #
51) L7	Aroclor-1260{2}	21.13	23.96	5647320	1984882	4346.432	3167.059 #
52) L7	Aroclor-1260{3}	22.33	24.43	6415042	2735366	4297.898	3670.257
53) L7	Aroclor-1260{4}	25.89	27.01	3659701	459814	4019.177	783.543 #
54) L7	Aroclor-1260{5}	27.41	29.75	3093135	1148365	1455.168	862.014 #
Sum	Aroclor-1260			28493132	9585726	27221.755	14366.211
Average	Aroclor-1260					5444.351 NP	2873.242 NP
56) L8	Toxaphene{1}	0.00	23.64	0	3044847	N.D.	22243.962 #
57) L8	Toxaphene{3}	0.00	30.38	0	293293	N.D.	825.842 #
Sum	Toxaphene			0	3338139	N.D.	23069.804
Average	Toxaphene					0.000	11534.902 NP

DMW 7/14/97

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

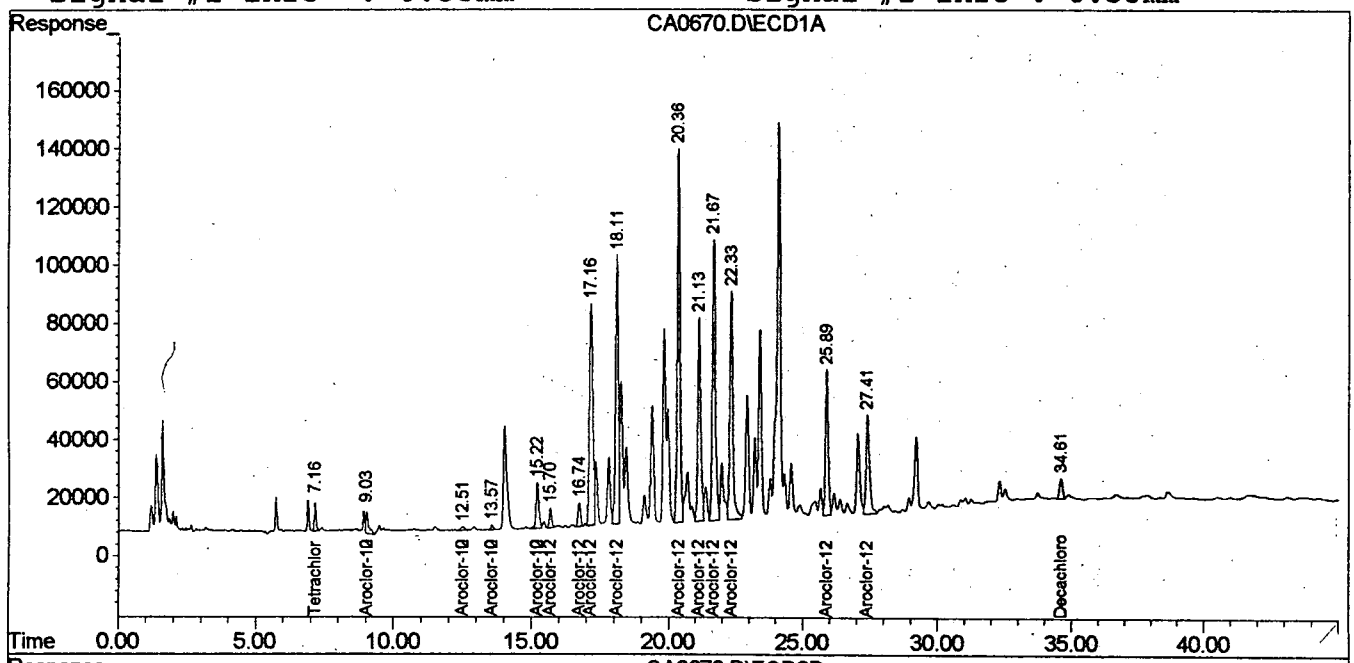
Quantitation Report

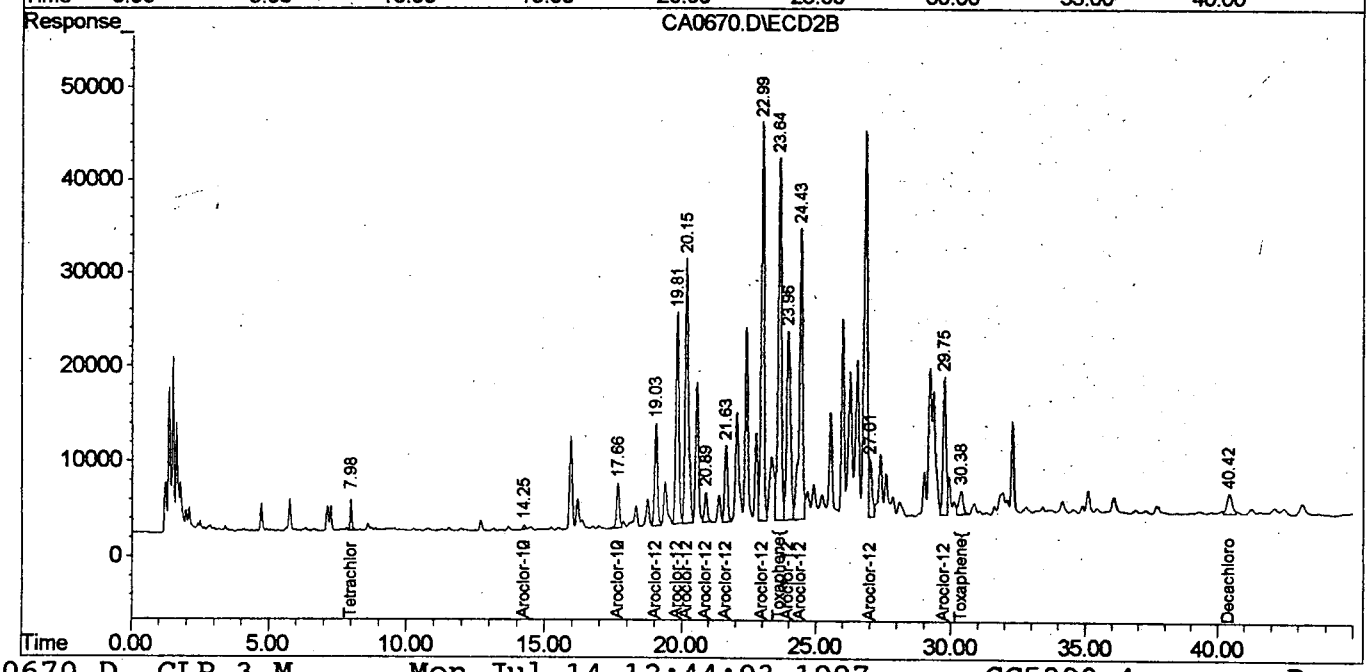
Signal #1 : J:\CA0670.D\ECD1A.CH
Signal #2 : J:\CA0670.D\ECD2B.CH
Acq On : 9 Jul 97 22:25
Sample : 266317
Misc : QPP7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:33 1997 Quant Results File: CLP_3.RES

Vial: 8
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : I:\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701
Signal #1 Info : 0.53mm
Signal #2 Phase: DB-608
Signal #2 Info : 0.53mm



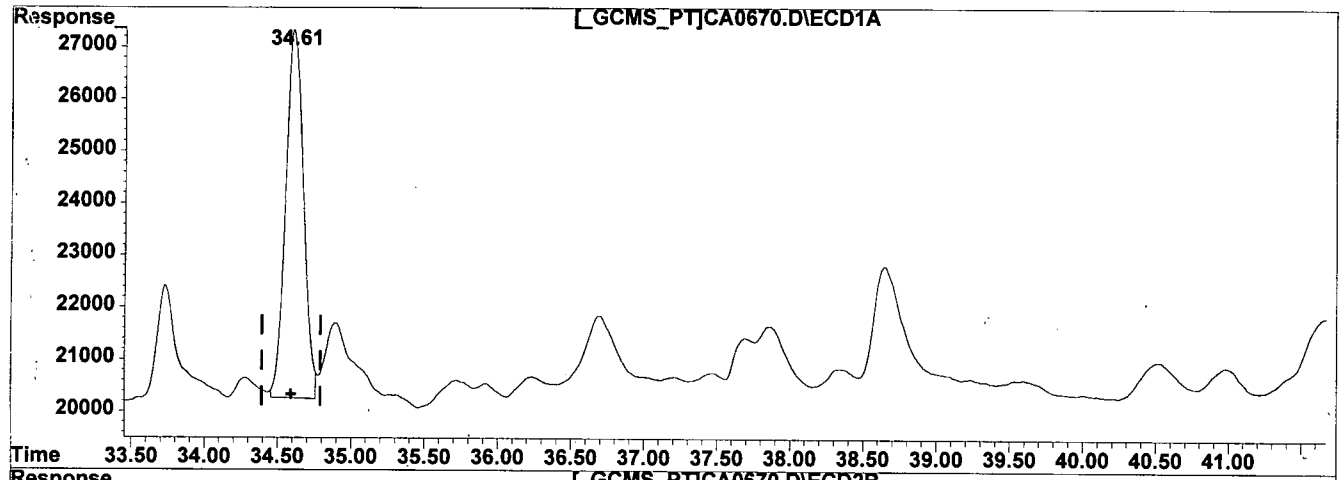


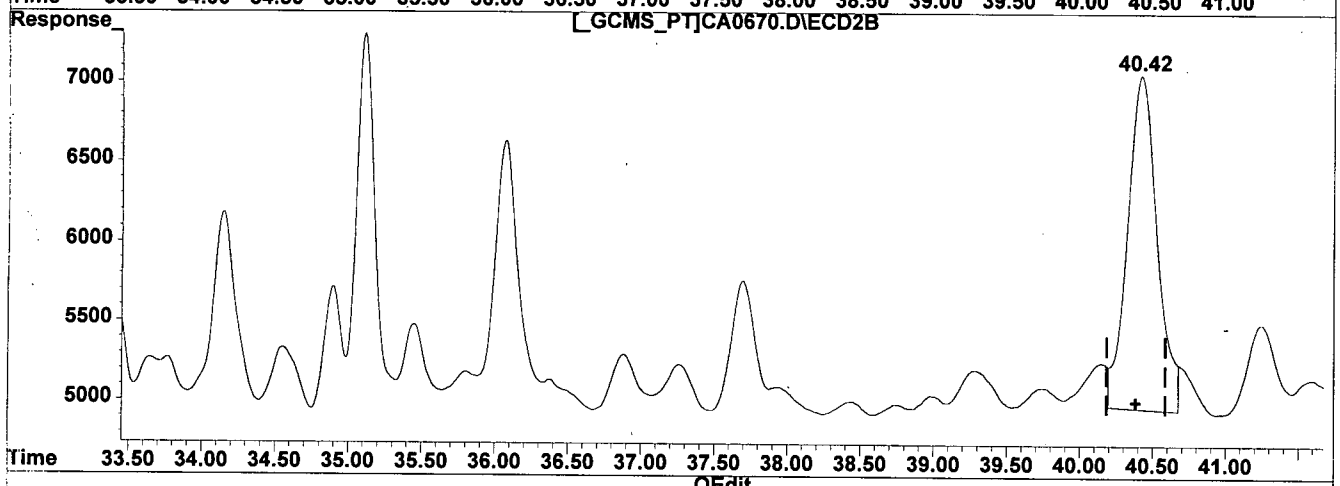
Quantitation Report

Signal #1 : C:\DATA_03\CA0670.D\ECD1A.CH
Signal #2 : C:\DATA_03\CA0670.D\ECD2B.CH
Acq On : 9 Jul 97 22:25
Sample : 266317
Misc : QPP7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:33 1997 Quant Results File: CLP_3.RES

Vial: 8
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

34.61min 21.500ng/ml m

response 598822

(22) Decachlorobiphenyl #2 (SA)

40.42min 25.808ng/ml m

response 295886

(+) = Expected Retention Time

CA0670.D CLP_3.M Tue Jul 22 08:58:47 1997 GC

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE07 DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266317

Sample wt/vol: 30.4 (g/mL) G Lab File ID: CA0746

% Moisture: 13. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/15/97

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	19.	U
319-85-7	beta-BHC	19.	U
319-86-8	delta-BHC	19.	U
58-89-9	gamma-BHC (Lindane)	19.	U
76-44-8	Heptachlor	19.	U
309-00-2	Aldrin	19.	U
1024-57-3	Heptachlor epoxide	19.	U
959-98-8	Endosulfan I	19.	U
60-57-1	Dieldrin	38.	U
72-55-9	4,4'-DDE	38.	U
72-20-8	Endrin	38.	U
33213-65-9	Endosulfan II	38.	U
72-54-8	4,4'-DDD	38.	U
1031-07-8	Endosulfan Sulfate	38.	U
50-29-3	4,4'-DDT	38.	U
72-43-5	Methoxychlor	190.	U
53494-70-5	Endrin ketone	38.	U
7421-93-4	Endrin aldehyde	38.	U
5103-71-9	alpha-Chlordane	19.	U
5103-74-2	gamma-Chlordane	19.	U
8001-35-2	Toxaphene	1900.	U
12674-11-2	Aroclor-1016	380.	U
11104-28-2	Aroclor-1221	380.	U
11141-16-5	Aroclor-1232	380.	U
53469-21-9	Aroclor-1242	380.	U
12672-29-6	Aroclor-1248	380.	U
11097-69-1	Aroclor-1254	2600.	DP
11096-82-5	Aroclor-1260	380.	U

Do Not Use this Data

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0746.D\ECD1A.CH
Signal #2 : I:\CA0746.D\ECD2B.CH
Acq On : 15 Jul 97 15:25
Sample : 266317 10X
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:49 1997 Quant Results File: CLP2_3.RES

Vial: 5
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
System Monitoring Compounds							
1) SA Tetrachloro-m-xy	7.24	8.05	39997	13569	1.977	1.936	
Spiked Amount 20.000 Range 60 - 150 Recovery =					9.89%#	9.68%#	
22) SA Decachlorobiphen	34.80	40.71	67173	28852	2.701m	2.760m	
Spiked Amount 20.000 Range 60 - 150 Recovery =					13.51%#	13.80%#	
Target Compounds							
23) L1 Aroclor-1016{1}	9.10	0.00	26489	0	40.863	N.D.	#
24) L1 Aroclor-1016{5}	0.00	17.79	0	40517	N.D.	168.978	#
Sum Aroclor-1016			26489	40517	40.863	168.978	
Average Aroclor-1016					40.863	168.978	
33) L2 Aroclor-1221{3}	9.10	0.00	26489	0	28.938	N.D.	#
Sum Aroclor-1221			26489	0	28.938	N.D.	
Average Aroclor-1221					28.938	0.000	
34) L3 Aroclor-1232{1}	9.10	0.00	26489	0	50.015	N.D.	#
Sum Aroclor-1232			26489	0	50.015	N.D.	
Average Aroclor-1232					50.015	0.000	
35) L4 Aroclor-1242{1}	9.10	0.00	26489	0	57.011	N.D.	#
39) L4 Aroclor-1242{5}	0.00	17.79	0	40517	N.D.	177.118	#
Sum Aroclor-1242			26489	40517	57.011	177.118	
Average Aroclor-1242					57.011	177.118	
40) L5 Aroclor-1248{3}	0.00	17.79	0	40517	N.D.	122.298	#
41) L5 Aroclor-1248{4}	0.00	19.17	0	115627	N.D.	337.500	#
44) L5 Aroclor-1248{5}	0.00	21.03	0	38751	N.D.	95.975	#
Sum Aroclor-1248			0	194896	N.D.	555.773	
Average Aroclor-1248					0.000	185.258	
45) L6 Aroclor-1254{1}	17.29	19.95	812022	294279	677.095m	629.312	
46) L6 Aroclor-1254{2}	18.25	20.29	733491	406064	727.105	736.986	
47) L6 Aroclor-1254{3}	20.50	21.78	1123161	96667	916.448	466.659	#
48) L6 Aroclor-1254{4}	21.27	23.14	595781	492953	985.569	553.144	#
49) L6 Aroclor-1254{5}	22.48	24.58	736743	404563	1215.844	1042.063	

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

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0746.D\ECD1A.CH Vial: 5
Signal #2 : I:\CA0746.D\ECD2B.CH
Acq On : 15 Jul 97 15:25 Operator:
Sample : 266317 10X Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:49 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	Sum Aroclor-1254			4001198	1694526	4522.061	3428.163	
	Average Aroclor-1254					904.412	685.633	
5[illegible])	L7 Aroclor-1260{1}	20.50	23.14	1123161	492953	1691.202	1232.938	#
51)	L7 Aroclor-1260{2}	21.27	24.11	595781	315266	492.291	537.814	
52)	L7 Aroclor-1260{3}	22.48	24.58	736743	404563	534.965	595.348	
5[illegible])	L7 Aroclor-1260{4}	26.04	27.16	346632	47527	445.005	95.486	#
5[illegible])	L7 Aroclor-1260{5}	0.00	29.91	0	91890	N.D.	76.928	#
	Sum Aroclor-1260			2802317	1352200	3163.463	2538.513	
	Average Aroclor-1260					790.866	507.703	
	Sum Toxaphene			0	0	N.D.	N.D.	
	Average Toxaphene					0.000	0.000	

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

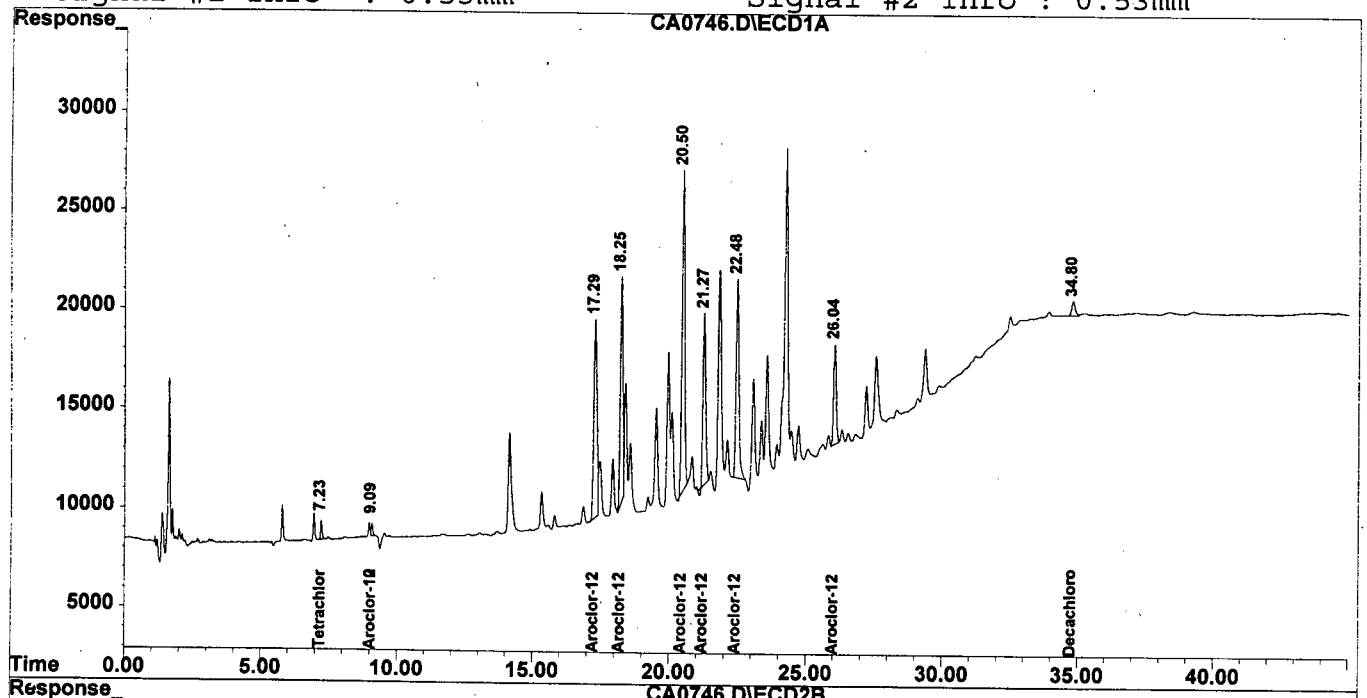
Quantitation Report

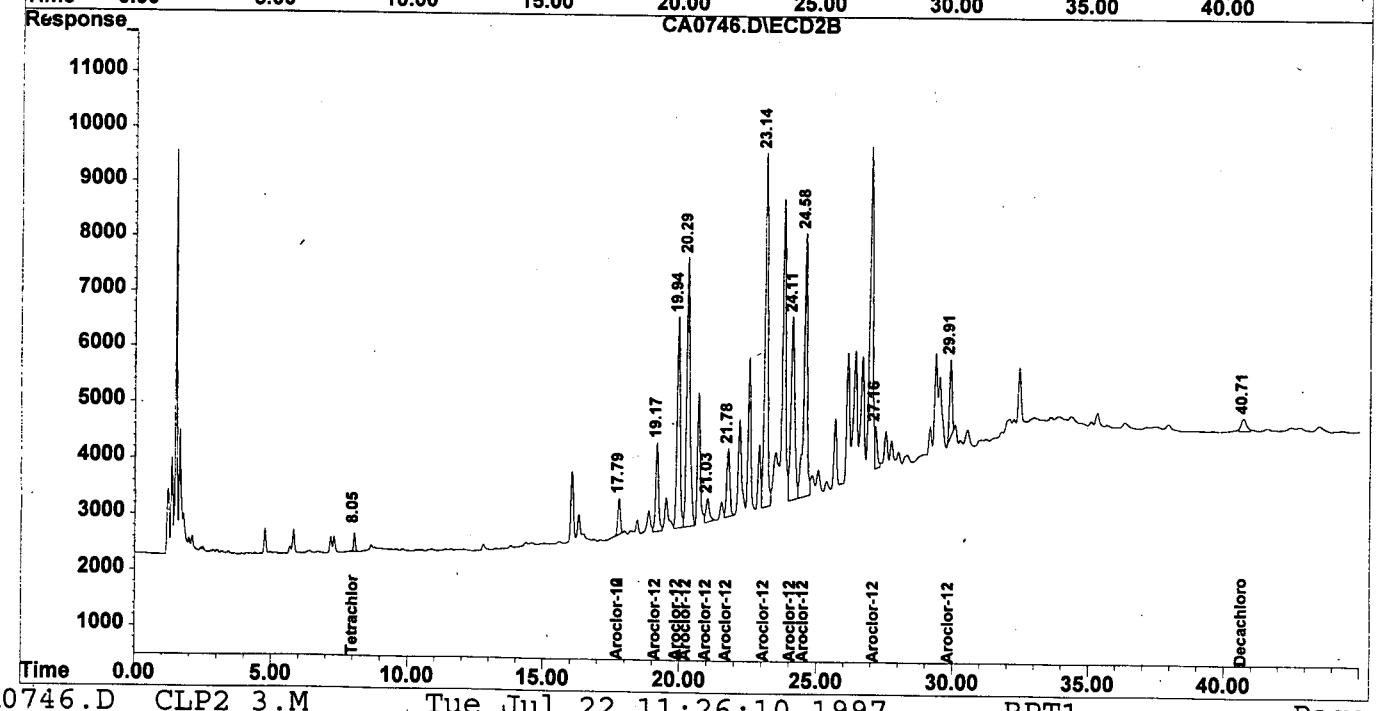
Signal #1 : I:\CA0746.D\ECD1A.CH
Signal #2 : I:\CA0746.D\ECD2B.CH
Acq On : 15 Jul 97 15:25
Sample : 266317 10X
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:49 1997 Quant Results File: CLP2_3.RES

Vial: 5
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701
Signal #1 Info : 0.53mm
Signal #2 Phase: DB-608
Signal #2 Info : 0.53mm



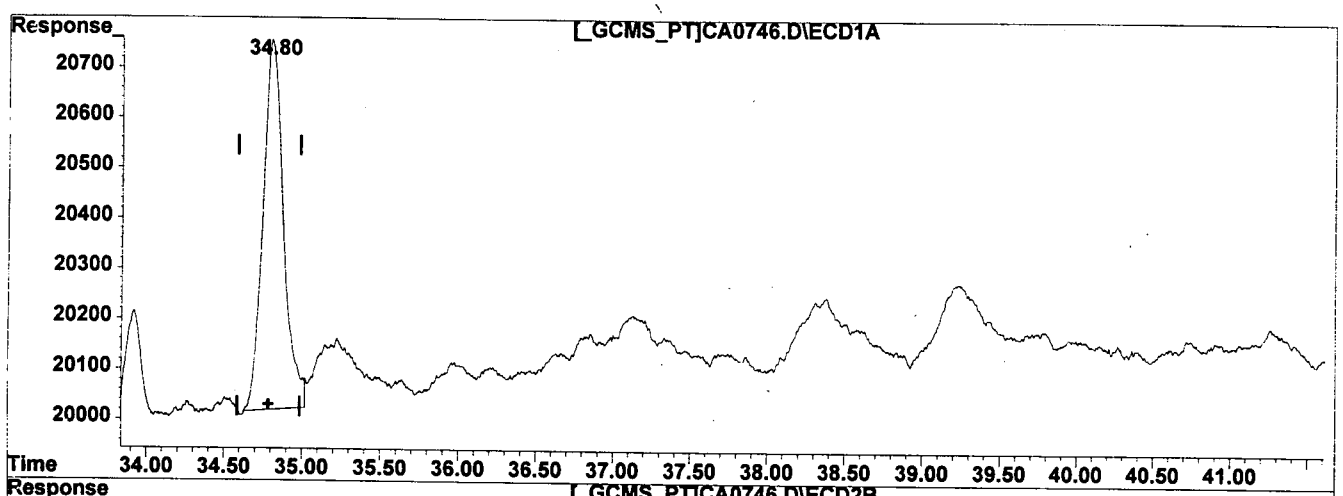


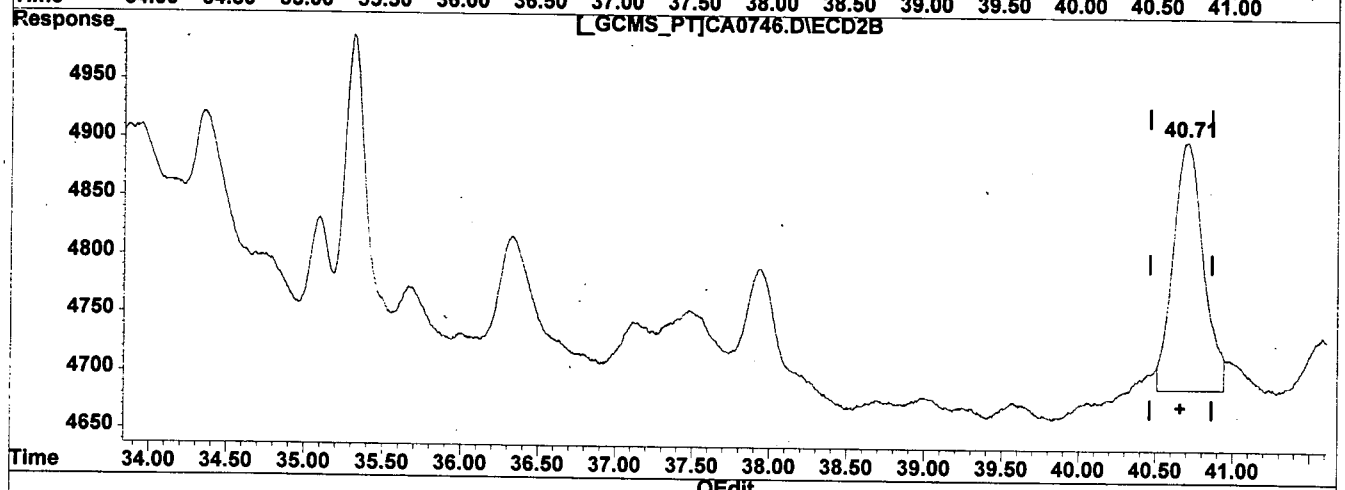
Quantitation Report

Signal #1 : I:\CA0746.D\ECD1A.CH
Signal #2 : I:\CA0746.D\ECD2B.CH
Acq On : 15 Jul 97 15:25
Sample : 266317 10X
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 20:01 1997 Quant Results File: CLP2_3.RES

Vial: 5
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

34.80min 2.701ng/ml m

response 67173

(22) Decachlorobiphenyl #2 (SA)

40.71min 2.760ng/ml m

response 28852

(+) = Expected Retention Time

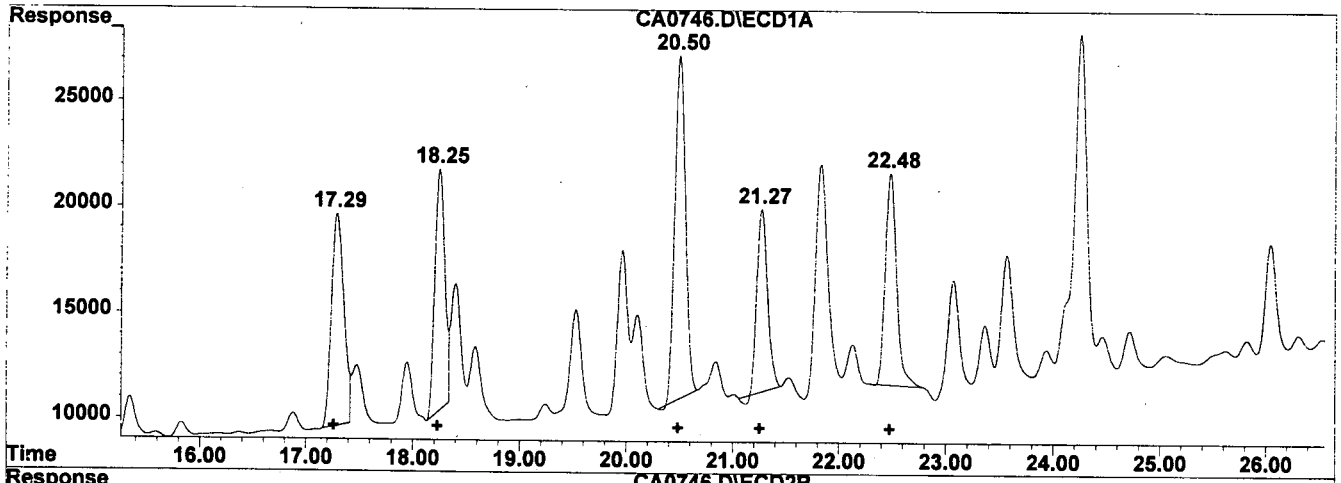
CA0746.D CLP2_3.M Tue Jul 22 10:49:06 1997 RPT1

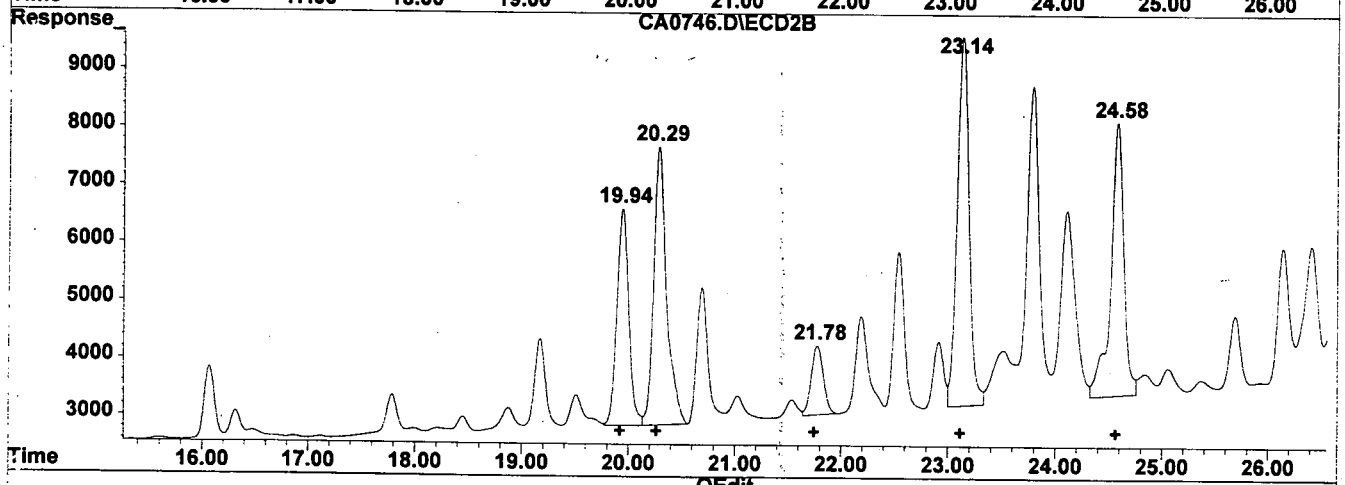
Quantitation Report

Signal #1 : I:\CA0746.D\ECD1A.CH
Signal #2 : I:\CA0746.D\ECD2B.CH
Acq On : 15 Jul 97 15:25
Sample : 266317 10X
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 20:01 1997 Quant Results File: CLP2_3.RES

Vial: 5
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(45) Aroclor-1254{1} #2 (L6)

R.T.	Response	Conc
17.29	812022	677.10
18.25	733491	727.10
20.50	1123161	916.45
21.27	595781	985.57
22.48	736743	1215.84

(45) Aroclor-1254{1} #2 (L6)

R.T.	Response	Conc
19.95	294279	629.31
20.29	406064	736.99
21.78	96667	466.66
23.14	492953	553.14
24.58	404563	1042.06

(+) = Expected Retention Time

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE08

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266318

Sample wt/vol: 30.2 (g/mL) G Lab File ID: CA0671

% Moisture: 14. decanted: (Y/N) N Date Received: 06/27/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan Sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190.	U
12674-11-2	Aroclor-1016	39.	U
11104-28-2	Aroclor-1221	39.	U
11141-16-5	Aroclor-1232	39.	U
53469-21-9	Aroclor-1242	39.	U
12672-29-6	Aroclor-1248	39.	U
11097-69-1	Aroclor-1254	2600.	J
11096-82-5	Aroclor-1260	39.	U

Use this Data

FORM I PEST OLM03.0

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : J:\CA0671.D\ECD1A.CH Vial: 9
Signal #2 : J:\CA0671.D\ECD2B.CH
Acq On : 9 Jul 97 23:14 Operator:
Sample : 266318 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:35 1997 Quant Results File: CLP_3.RES

Quant Method : I:\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
System Monitoring Compounds							
1) SA Tetrachloro-m-xy	7.16	7.98	432440	147000	19.877	19.417	
Spiked Amount 20.000 Range 60 - 150 Recovery =					99.38%	97.09%	
22) SA Decachlorobiphen	34.61	40.43	596562	296201	21.419m	25.836m	
Spiked Amount 20.000 Range 60 - 150 Recovery =					107.10%	129.18%	
Target Compounds							
23) L1 Aroclor-1016{1}	9.03	0.00	168212	0	296.143	N.D.	#
25) L1 Aroclor-1016{3}	12.51	14.24	206993	66300	256.445	182.210	#
26) L1 Aroclor-1016{4}	13.57	0.00	57742	0	235.596	N.D.	#
27) L1 Aroclor-1016{5}	15.22	17.66	3022819	829896	3279.561	3313.906	
Sum Aroclor-1016			3455767	896195	4067.743	3496.115	
Average Aroclor-1016					1016.936 NP	1748.058 NP	
30) L2 Aroclor-1221{3}	9.03	0.00	168212	0	592.285	N.D.	#
Sum Aroclor-1221			168212	0	592.285	N.D.	
Average Aroclor-1221					592.285 NP	0.000	
31) L3 Aroclor-1232{1}	9.03	0.00	168212	0	296.143	N.D.	#
33) L3 Aroclor-1232{3}	12.51	14.24	206993	66300	256.445	182.210	#
34) L3 Aroclor-1232{4}	15.22	0.00	3022819	0	3279.561	N.D.	#
Sum Aroclor-1232			3398025	66300	3832.148	182.210	
Average Aroclor-1232					1277.383 NP	182.210 NP	
35) L4 Aroclor-1242{1}	9.03	0.00	168212	0	289.790	N.D.	#
37) L4 Aroclor-1242{3}	12.51	14.24	206993	66300	115.206	93.111	
38) L4 Aroclor-1242{4}	13.57	0.00	57742	0	113.509	N.D.	#
39) L4 Aroclor-1242{5}	15.22	17.66	3022819	829896	2404.571	2163.064	
Sum Aroclor-1242			3455767	896195	2923.076	2256.175	
Average Aroclor-1242					730.769 NP	1128.088 NP	
41) L5 Aroclor-1248{2}	12.51	14.24	206993	66300	154.182	116.563	
42) L5 Aroclor-1248{3}	15.22	17.66	3022819	829896	1873.873	1756.455	
43) L5 Aroclor-1248{4}	15.70	19.03	1351391	1811350	1598.617	3611.395	#

KMW 7/14/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : J:\CA0671.D\ECD1A.CH Vial: 9
Signal #2 : J:\CA0671.D\ECD2B.CH
Acq On : 9 Jul 97 23:14 Operator:
Sample : 266318 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:35 1997 Quant Results File: CLP_3.RES

Quant Method : I:\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
44) L5	Aroclor-1248{5}	16.74	20.89	1751548	524607	3301.052	1474.920 #
Sum	Aroclor-1248			6332751	3232152	6927.724	6959.333
Average	Aroclor-1248					1731.931 NP	1739.833 NP
45) L6	Aroclor-1254{1}	17.16	19.81	14814993	3559698	10893.921	6873.447 #
46) L6	Aroclor-1254{2}	18.11	20.15	14165226	4750303	12556.578	7511.924 #
47) L6	Aroclor-1254{3}	20.35	21.64	21596971	1383463	13963.389	4301.745 #
48) L6	Aroclor-1254{4}	21.67	22.99	17319130	7002012	18639.530	7670.136 #
49) L6	Aroclor-1254{5}	22.33	24.43	12850011	4676452	17507.861	7872.157m#
Sum	Aroclor-1254			80746331	21371928	73561.280	34229.409
Average	Aroclor-1254					14712.256	6845.882
50) L7	Aroclor-1260{1}	20.35	22.99	21596971	7002012	29240.416	12647.041 #
51) L7	Aroclor-1260{2}	21.13	23.96	11858841	3882071	9127.100	6194.196 #
52) L7	Aroclor-1260{3}	22.33	24.43	12850011	5443051	8609.146	7303.371
53) L7	Aroclor-1260{4}	25.89	27.01	8076804	907505	8870.150	1546.429 #
54) L7	Aroclor-1260{5}	27.41	29.75	6576984	2505047	3094.149	1880.400 #
Sum	Aroclor-1260			60959611	19739686	58940.960	29571.437
Average	Aroclor-1260					11788.192 NP	5914.287 NP
Sum	Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000

DMW 7/14/97

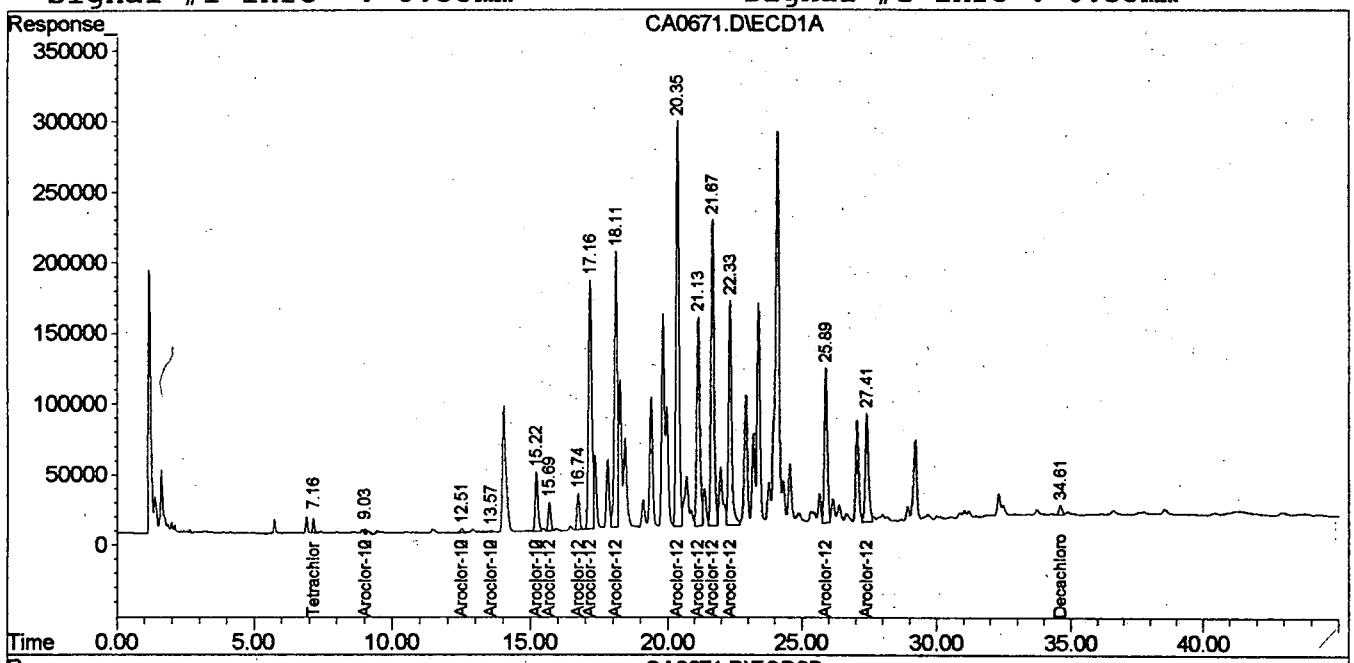
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

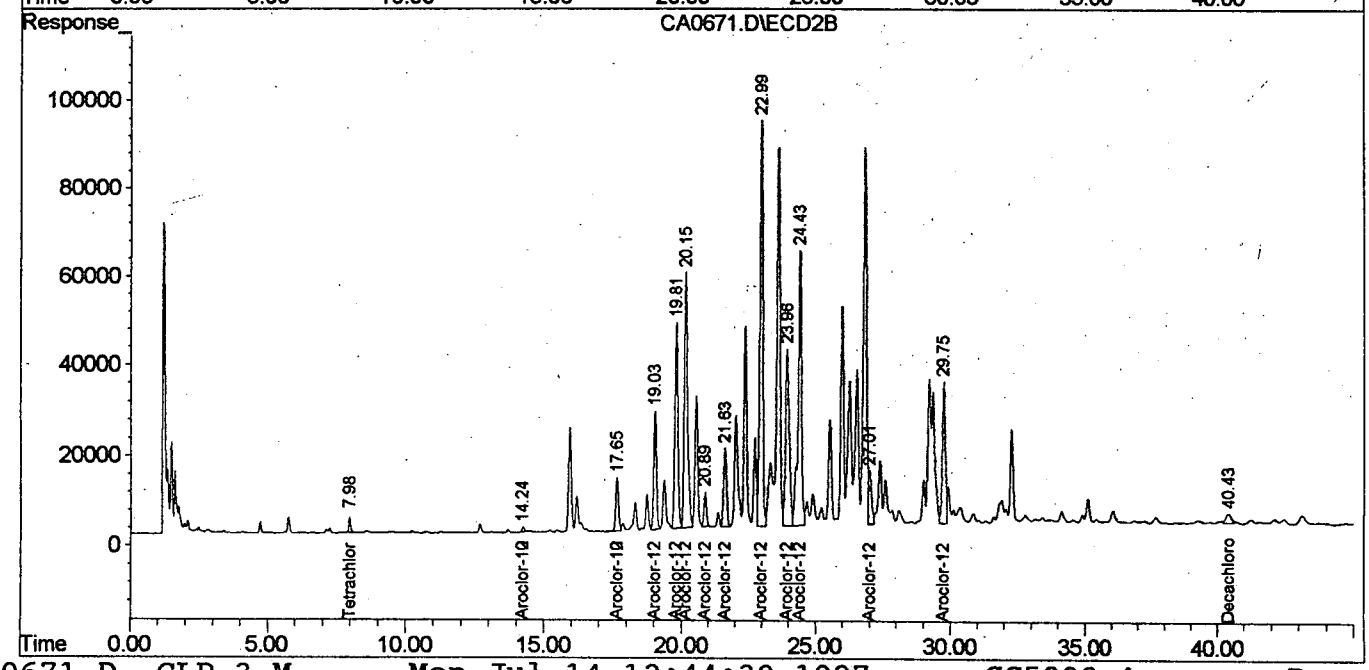
Quantitation Report

Signal #1 : J:\CA0671.D\ECD1A.CH Vial: 9
Signal #2 : J:\CA0671.D\ECD2B.CH
Acq On : 9 Jul 97 23:14 Operator:
Sample : 266318 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:35 1997 Quant Results File: CLP_3.RES

Quant Method : I:\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

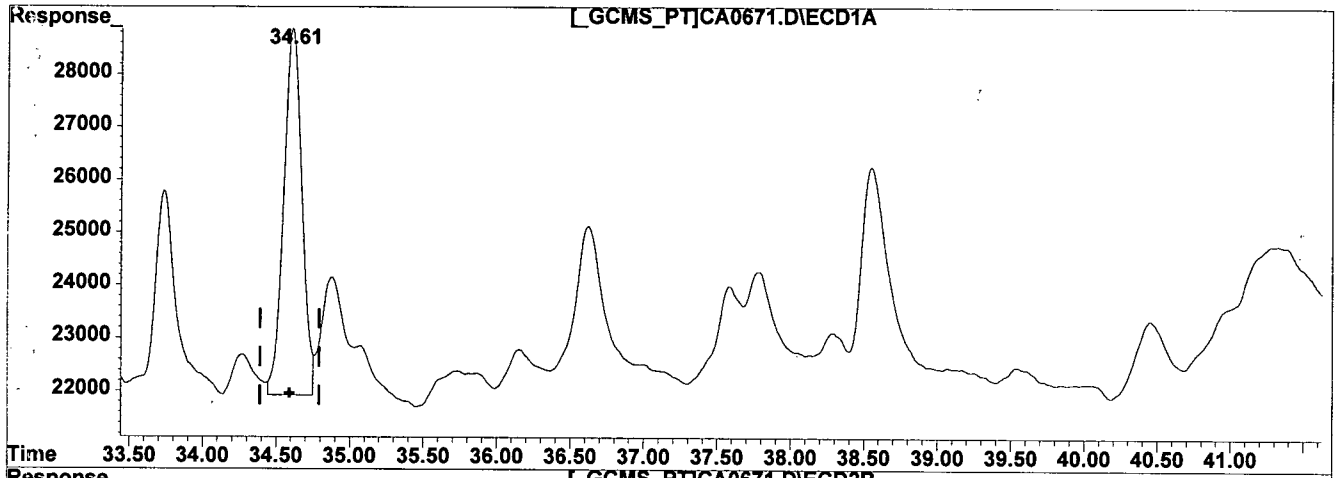


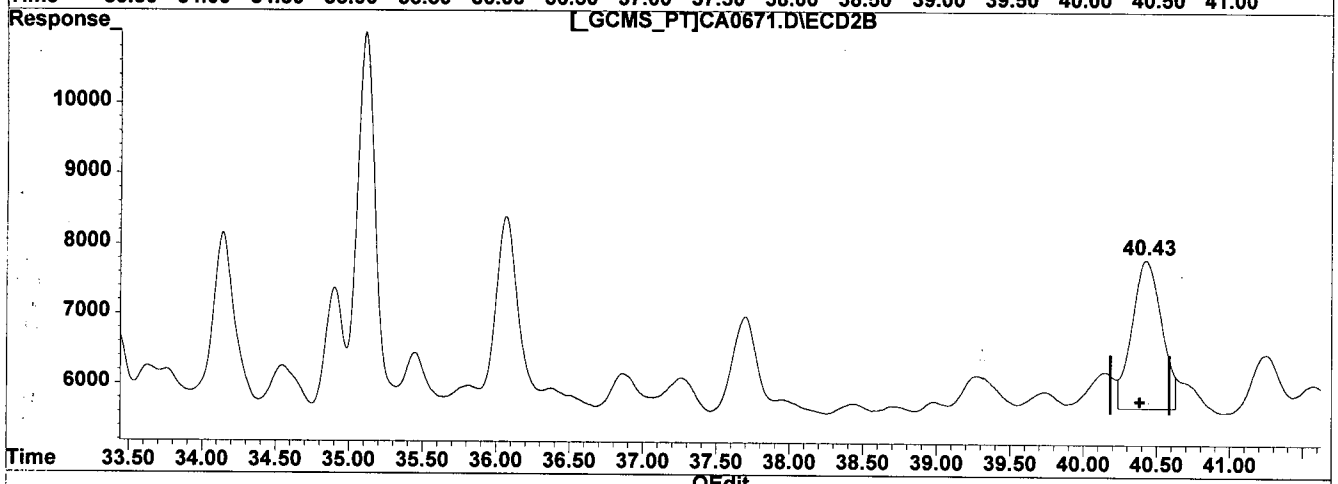


Quantitation Report

Signal #1 : C:\DATA_03\CA0671.D\ECD1A.CH Vial: 9
Signal #2 : C:\DATA_03\CA0671.D\ECD2B.CH
Acq On : 9 Jul 97 23:14 Operator:
Sample : 266318 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:35 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

34.61min 21.419ng/ml m

response 596562

(22) Decachlorobiphenyl #2 (SA)

40.43min 25.836ng/ml m

response 296201

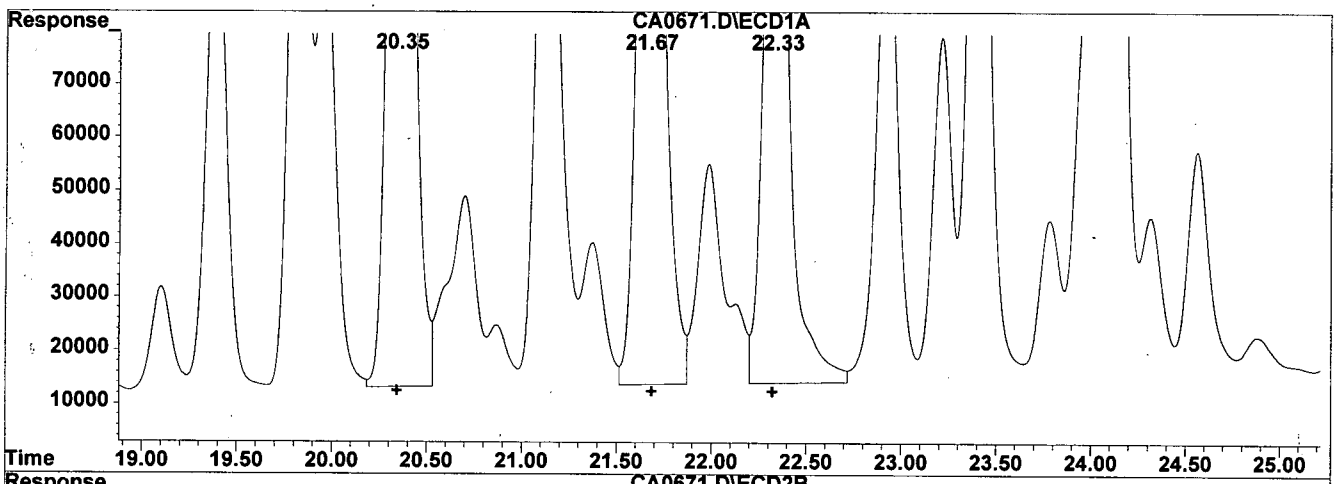
(+) = Expected Retention Time

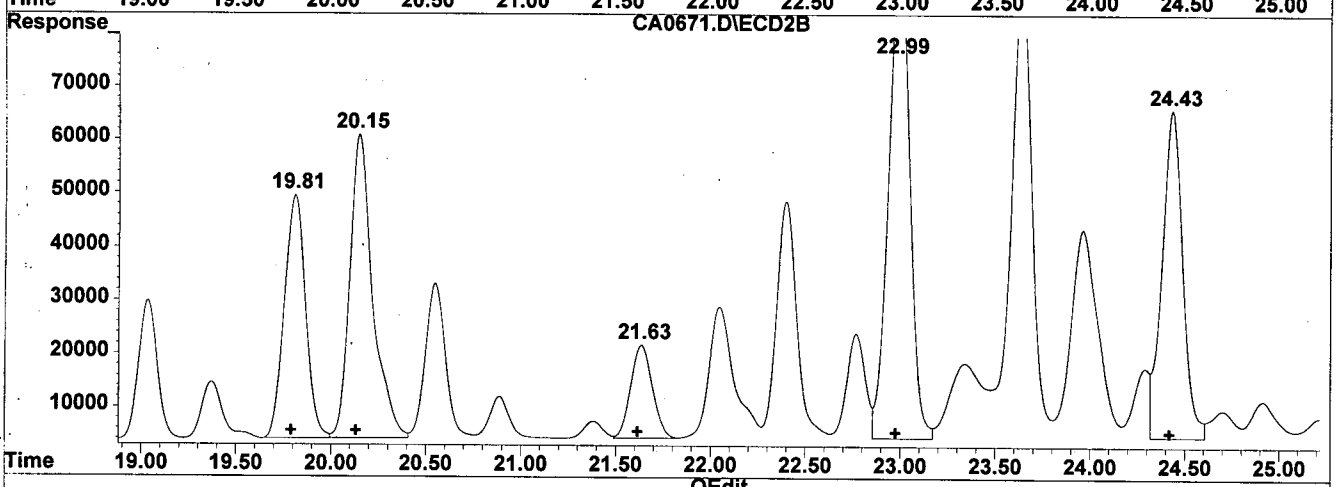
CA0671.D CLP_3.M Tue Jul 22 08:59:21 1997 GC

Quantitation Report

Signal #1 : C:\DATA_03\CA0671.D\ECD1A.CH Vial: 9
Signal #2 : C:\DATA_03\CA0671.D\ECD2B.CH
Acq On : 9 Jul 97 23:14 Operator:
Sample : 266318 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:35 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(45) Aroclor-1254{1} (L6)

R.T.	Response	Conc
17.16	14814993	10893.92
18.11	14165226	12556.58
20.35	21596971	13963.39
21.67	17319130	18639.53
22.33	12850011	17507.86

(45) Aroclor-1254{1} #2 (L6)

R.T.	Response	Conc
19.81	3559698	6873.45
20.15	4750303	7511.92
21.64	1383463	4301.74
22.99	7002012	7670.14
24.43	4676452	7872.16

(+) = Expected Retention Time

CA0671.D CLP_3.M Tue Jul 22 08:59:40 1997 GC

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE08 DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266318

Sample wt/vol: 30.2 (g/mL) G Lab File ID: CA0747

% Moisture: 14. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/15/97

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 5.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	19.	U
319-85-7	beta-BHC	19.	U
319-86-8	delta-BHC	19.	U
58-89-9	gamma-BHC (Lindane)	19.	U
76-44-8	Heptachlor	19.	U
309-00-2	Aldrin	19.	U
1024-57-3	Heptachlor epoxide	19.	U
959-98-8	Endosulfan I	19.	U
60-57-1	Dieldrin	39.	U
72-55-9	4,4'-DDE	39.	U
72-20-8	Endrin	39.	U
33213-65-9	Endosulfan II	39.	U
72-54-8	4,4'-DDD	39.	U
1031-07-8	Endosulfan Sulfate	39.	U
50-29-3	4,4'-DDT	39.	U
72-43-5	Methoxychlor	190.	U
53494-70-5	Endrin ketone	39.	U
7421-93-4	Endrin aldehyde	39.	U
5103-71-9	alpha-Chlordane	19.	U
5103-74-2	gamma-Chlordane	19.	U
8001-35-2	Toxaphene	1900.	U
12674-11-2	Aroclor-1016	390.	U
11104-28-2	Aroclor-1221	390.	U
11141-16-5	Aroclor-1232	390.	U
53469-21-9	Aroclor-1242	390.	U
12672-29-6	Aroclor-1248	390.	U
11097-69-1	Aroclor-1254	5700.	J DP
11096-82-5	Aroclor-1260	390.	U

Do Not use this Data

FORM I PEST OLM03.0

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0747.D\ECD1A.CH
Signal #2 : I:\CA0747.D\ECD2B.CH
Acq On : 15 Jul 97 16:14
Sample : 266318 10X
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:52 1997 Quant Results File: CLP2_3.RES

Vial: 6
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
21) SA Tetrachloro-m-xy	7.23	8.05	44252	15580	2.187	2.223
Spiked Amount 20.000 Range 60 - 150 Recovery =					10.94%#	11.12%#
22) SA Decachlorobiphen	34.80	40.71	66325	35218	2.667m	3.369m#
Spiked Amount 20.000 Range 60 - 150 Recovery =					13.34%#	16.85%#
Target Compounds						
27) L1 Aroclor-1016{5}	15.34	17.78	362760	127558	348.479	531.980 #
Sum Aroclor-1016			362760	127558	348.479	531.980
Average Aroclor-1016					348.479	531.980
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
34) L3 Aroclor-1232{4}	15.34	0.00	362760	0	588.781	N.D. #
Sum Aroclor-1232			362760	0	588.781	N.D.
Average Aroclor-1232					588.781	0.000
39) L4 Aroclor-1242{5}	15.34	17.78	362760	127558	346.498	557.608 #
Sum Aroclor-1242			362760	127558	346.498	557.608
Average Aroclor-1242					346.498	557.608
40) L5 Aroclor-1248{3}	15.34	17.78	362760	127558	310.189	385.023
43) L5 Aroclor-1248{4}	0.00	19.17	0	298103	N.D.	870.121 #
44) L5 Aroclor-1248{5}	0.00	21.03	0	83154	N.D.	205.948 #
Sum Aroclor-1248			362760	508815	310.189	1461.092
Average Aroclor-1248					310.189	487.031
45) L6 Aroclor-1254{1}	17.29	19.94	2116939	624360	1765.185	1335.184
46) L6 Aroclor-1254{2}	18.24	20.28	2075368	844524	2057.299	1532.770 #
47) L6 Aroclor-1254{3}	20.50	21.77	2925287	225683	2386.900	1089.483 #
48) L6 Aroclor-1254{4}	21.27	23.13	1581919	1105327	2616.886	1240.290 #
49) L6 Aroclor-1254{5}	22.48	24.58	1604210	864067	2647.423	2225.642
Sum Aroclor-1254			10303723	3663961	11473.692	~~7423.368~~
Average Aroclor-1254					2294.738	1484.674

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

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0747.D\ECD1A.CH Vial: 6
Signal #2 : I:\CA0747.D\ECD2B.CH
Acq On : 15 Jul 97 16:14 Operator:
Sample : 266318 10X Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:52 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
50)	L7 Aroclor-1260{1}	20.50	23.13	2925287	1105327	4404.757	2764.562	#
51)	L7 Aroclor-1260{2}	21.27	24.11	1581919	661433	1307.133	1128.341	
52)	L7 Aroclor-1260{3}	22.48	24.58	1604210	864067	1164.852	1271.547	
53)	L7 Aroclor-1260{4}	26.04	27.15	828379	94315	1063.470	189.486	#
54)	L7 Aroclor-1260{5}	27.56	29.91	255293	220142	133.206	184.297	#
	Sum Aroclor-1260			7195089	2945285	8073.418	5538.232	
	Average Aroclor-1260					1614.684	1107.646	
	Sum Toxaphene			0	0	N.D.	N.D.	
	Average Toxaphene					0.000	0.000	

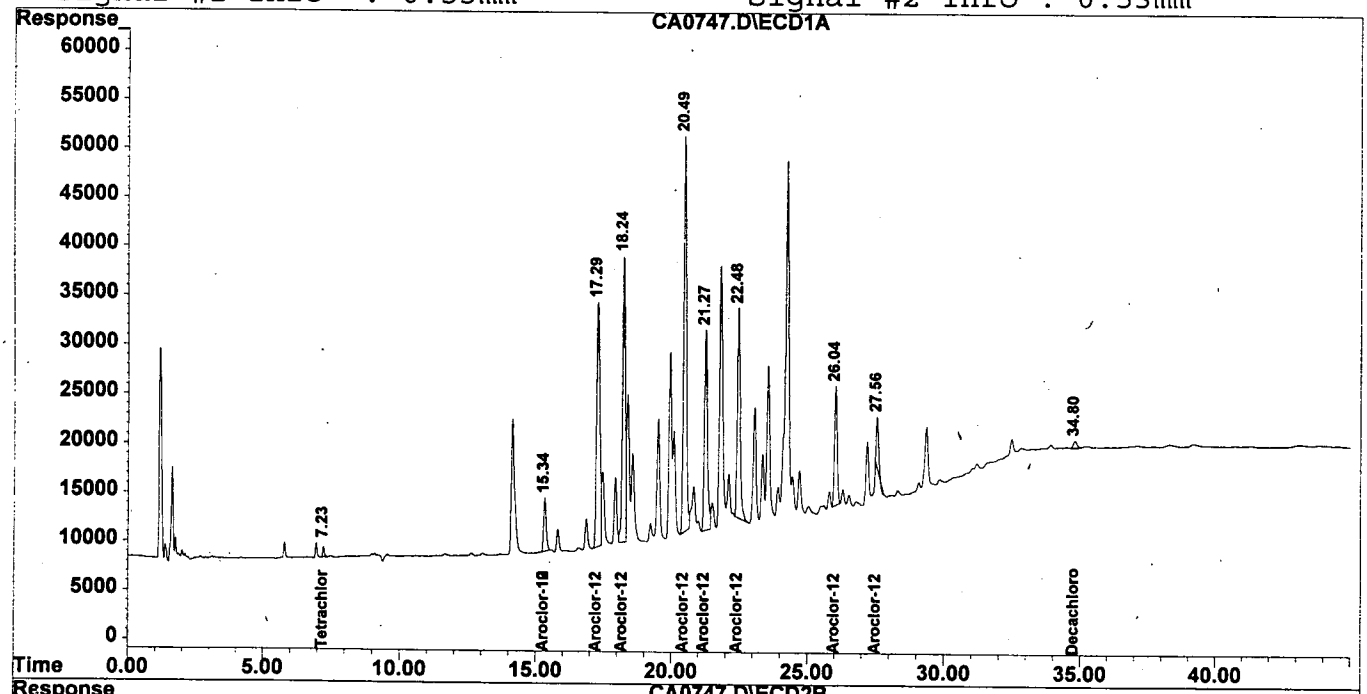
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

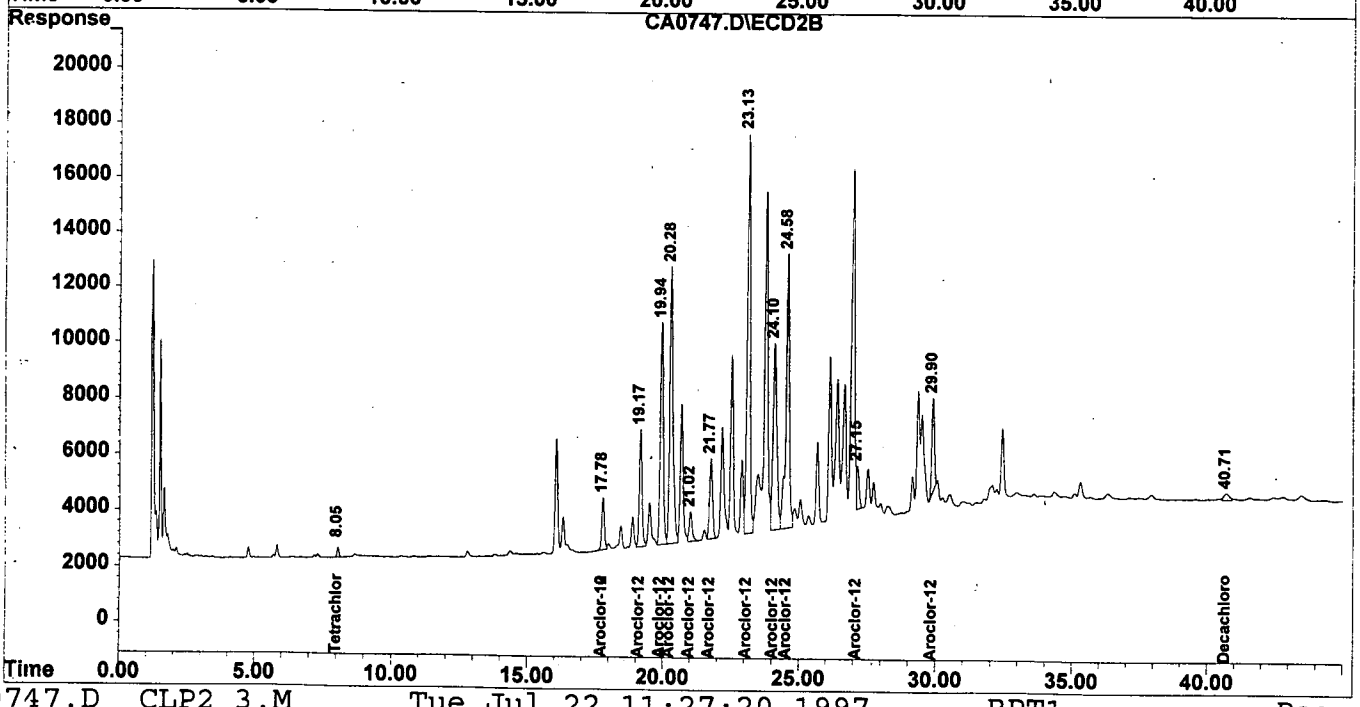
Quantitation Report

Signal #1 : I:\CA0747.D\ECD1A.CH Vial: 6
Signal #2 : I:\CA0747.D\ECD2B.CH
Acq On : 15 Jul 97 16:14 Operator:
Sample : 266318 10X Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:52 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm



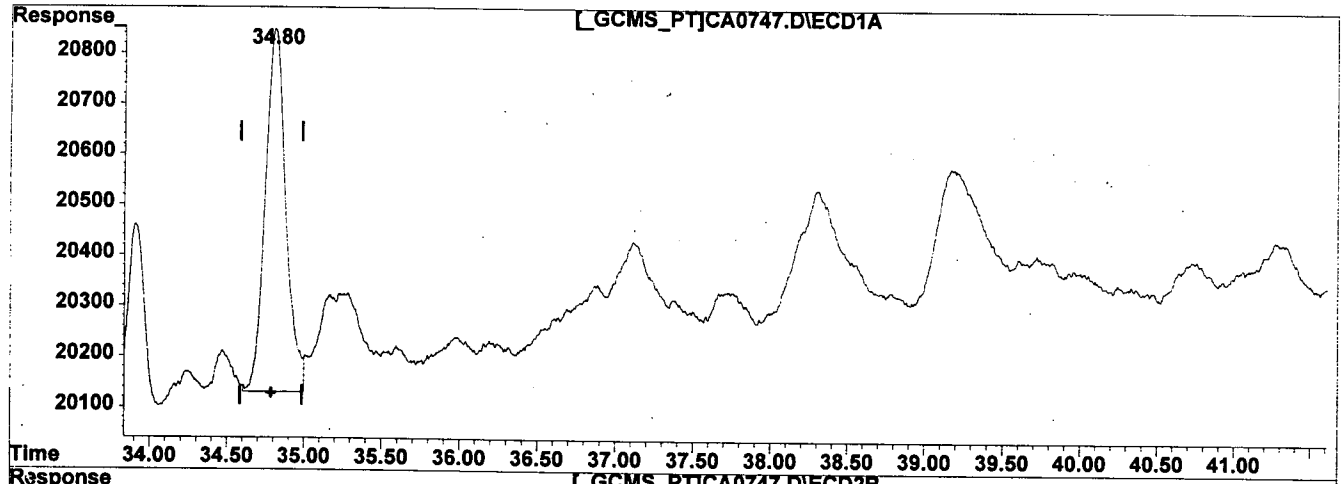


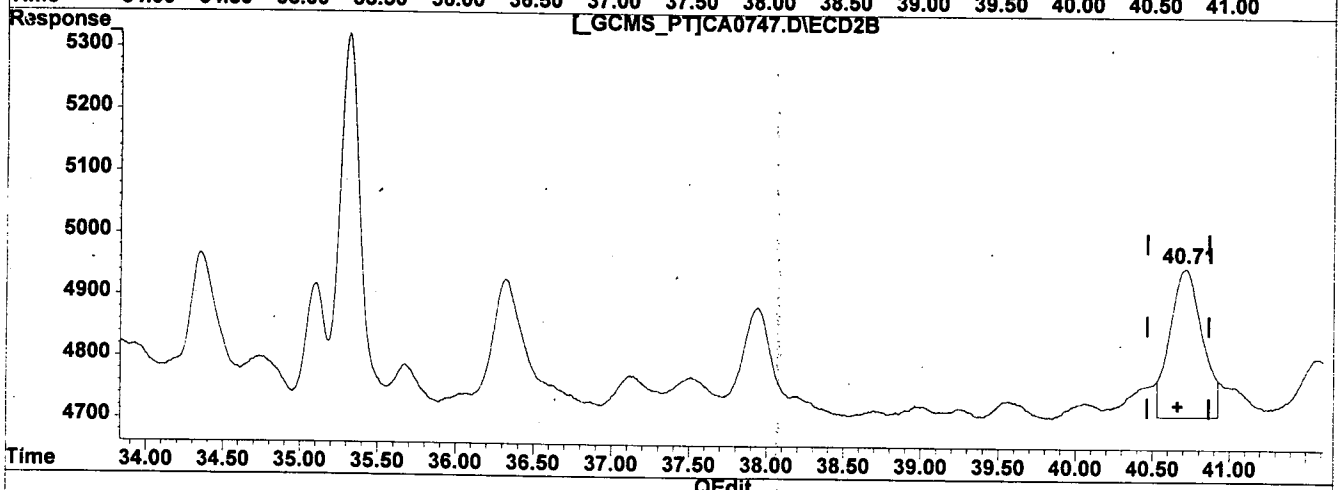
Quantitation Report

Signal #1 : I:\CA0747.D\ECD1A.CH
Signal #2 : I:\CA0747.D\ECD2B.CH
Acq On : 15 Jul 97 16:14
Sample : 266318 10X
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 20:02 1997 Quant Results File: CLP2_3.RES

Vial: 6
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

34.80min 2.667ng/ml m

response 66325

(22) Decachlorobiphenyl #2 (SA)

40.71min 3.369ng/ml m

response 35218

(+) = Expected Retention Time

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE09

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266319

Sample wt/vol: 30.2 (g/mL) G Lab File ID: CA0672

% Moisture: 12. decanted: (Y/N) N Date Received: 06/27/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/10/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan Sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190.	U
12674-11-2	Aroclor-1016	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	400.	J
11096-82-5	Aroclor-1260	38.	U

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : J:\CA0672.D\ECD1A.CH Vial: 10
Signal #2 : J:\CA0672.D\ECD2B.CH
Acq On : 10 Jul 97 00:02 Operator:
Sample : 266319 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:38 1997 Quant Results File: CLP_3.RES

Quant Method : I:\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.16	7.98	444217	146502	20.418	19.351
Spiked Amount 20.000 Range 60 - 150 Recovery =					102.09%	96.76%
22) SA Decachlorobiphen	34.61	40.45	523566	323258	18.798m	28.196m#
Spiked Amount 20.000 Range 60 - 150 Recovery =					93.99%	140.98%
Target Compounds						
23) L1 Aroclor-1016{1}	9.03	0.00	5815551	0	10238.439	N.D. #
24) L1 Aroclor-1016{3}	0.00	14.25	0	71695	N.D.	197.038 #
26) L1 Aroclor-1016{4}	13.57	0.00	273751	0	1116.949	N.D. #
27) L1 Aroclor-1016{5}	15.27	17.65	490743	75157	532.424	300.114 #
Sum Aroclor-1016			6580045	146852	11887.812	497.152
Average Aroclor-1016					3962.604 NP	248.576 NP
28) L2 Aroclor-1221{1}	8.37	0.00	109714	0	1475.777	N.D. #
29) L2 Aroclor-1221{2}	8.81	0.00	75103	0	1040.088	N.D. #
30) L2 Aroclor-1221{3}	9.03	0.00	5815551	0	20476.879	N.D. #
Sum Aroclor-1221			6000368	0	22992.743	N.D.
Average Aroclor-1221					7664.248 NP	0.000
31) L3 Aroclor-1232{1}	9.03	0.00	5815551	0	10238.439	N.D. #
32) L3 Aroclor-1232{3}	0.00	14.25	0	71695	N.D.	197.038 #
33) L3 Aroclor-1232{4}	15.27	0.00	490743	0	532.424	N.D. #
Sum Aroclor-1232			6306295	71695	10770.863	197.038
Average Aroclor-1232					5385.432 NP	197.038 NP
36) L4 Aroclor-1242{1}	9.03	0.00	5815551	0	10018.808	N.D. #
37) L4 Aroclor-1242{3}	0.00	14.25	0	71695	N.D.	100.688 #
38) L4 Aroclor-1242{4}	13.57	0.00	273751	0	538.144	N.D. #
39) L4 Aroclor-1242{5}	15.27	17.65	490743	75157	390.373	195.892 #
Sum Aroclor-1242			6580045	146852	10947.325	296.580
Average Aroclor-1242					3649.108 NP	148.290 NP
41) L5 Aroclor-1248{2}	0.00	14.25	0	71695	N.D.	126.048 #

ems 7/14/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : J:\CA0672.D\ECD1A.CH Vial: 10
Signal #2 : J:\CA0672.D\ECD2B.CH
Acq On : 10 Jul 97 00:02 Operator:
Sample : 266319 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:38 1997 Quant Results File: CLP_3.RES

Quant Method : I:\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
42) L5	Aroclor-1248{3}	15.27	17.65	490743	75157	304.216	159.068	#
43) L5	Aroclor-1248{4}	15.70	19.04	99396	268257	117.580	534.840	#
44) L5	Aroclor-1248{5}	16.70	0.00	1171087	0	2207.087	N.D.	#
Sum	Aroclor-1248			1761226	415109	2628.883	819.957	
Average	Aroclor-1248					876.294 NP	273.319 NP	
45) L6	Aroclor-1254{1}	17.17	19.79	1456314	844433	1070.873	1630.523	#
46) L6	Aroclor-1254{2}	18.11	20.16	2331423	543489	2066.659	859.450	#
47) L6	Aroclor-1254{3}	20.36	21.65	3090192	119819	1997.945	372.566	#
48) L6	Aroclor-1254{4}	21.67	23.00	2851037	905539	3068.399	991.944	#
49) L6	Aroclor-1254{5}	22.34	24.44	2328182	883973	3172.098	1488.045	#
Sum	Aroclor-1254			12057148	3297253	11375.973	5342.529	
Average	Aroclor-1254					2275.195	1068.506	
50) L7	Aroclor-1260{1}	20.36	23.00	3090192	905539	4183.850	1635.585	#
51) L7	Aroclor-1260{2}	21.13	23.97	1714955	609210	1319.907	972.051	#
52) L7	Aroclor-1260{3}	22.34	24.44	2328182	883973	1559.817	1186.096	
53) L7	Aroclor-1260{4}	25.89	27.01	1306125	95612	1434.419	162.927	#
54) L7	Aroclor-1260{5}	27.41	29.76	1266861	414435	595.996	311.093	#
Sum	Aroclor-1260			9706314	2908769	9093.989	4267.752	
Average	Aroclor-1260					1818.798 NP	853.550 NP	
Sum	Toxaphene			0	0	N.D.	N.D.	
Average	Toxaphene					0.000	0.000	

RMM 7/14/97

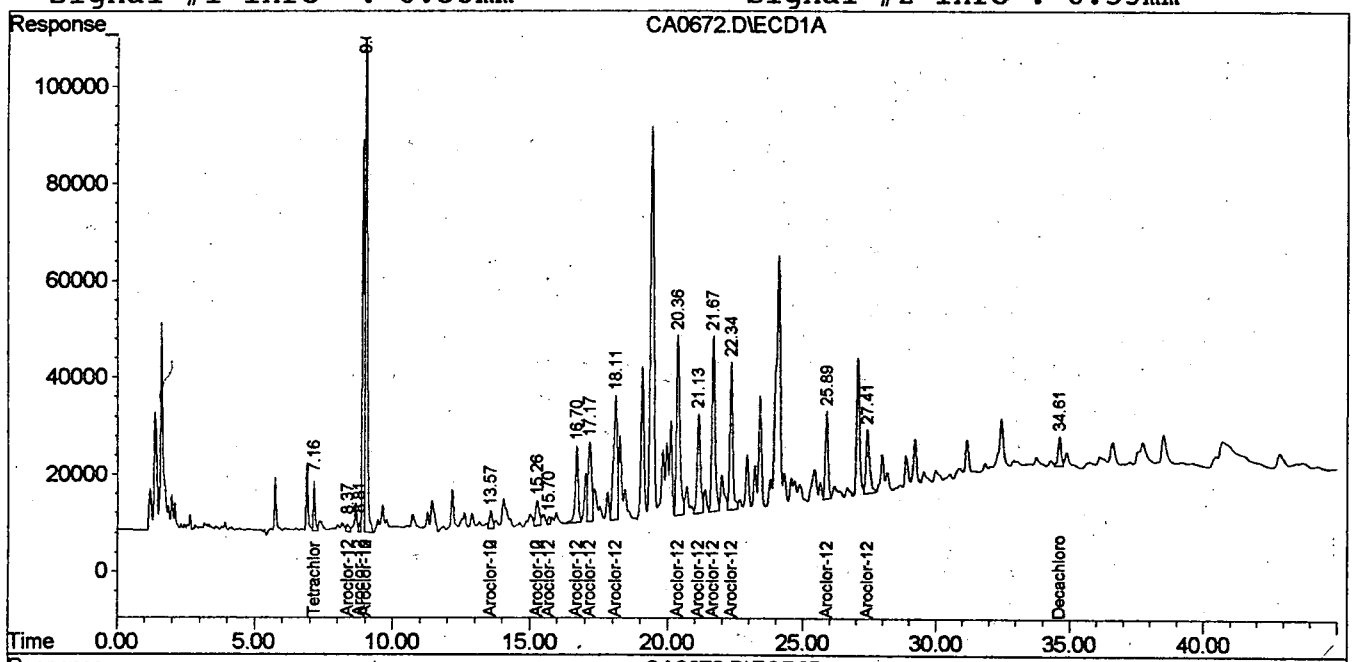
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

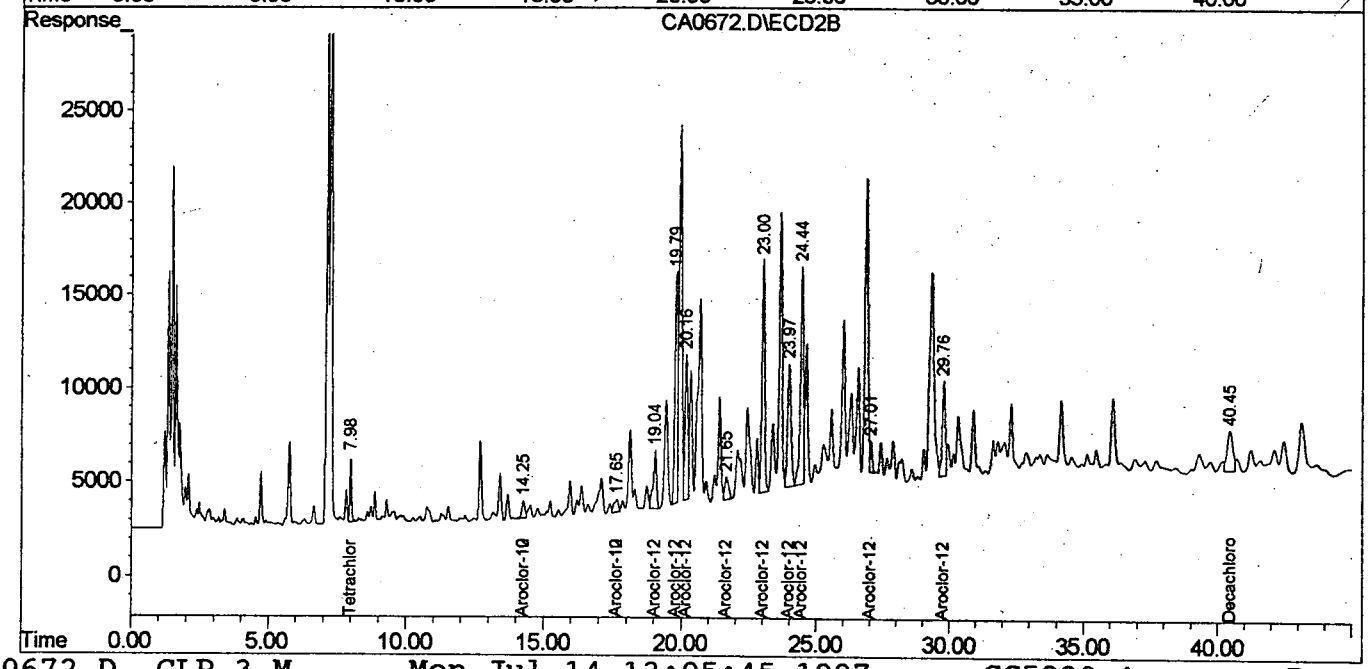
Quantitation Report

Signal #1 : J:\CA0672.D\ECD1A.CH Vial: 10
Signal #2 : J:\CA0672.D\ECD2B.CH
Acq On : 10 Jul 97 00:02 Operator:
Sample : 266319 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:38 1997 Quant Results File: CLP_3.RES

Quant Method : I:\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

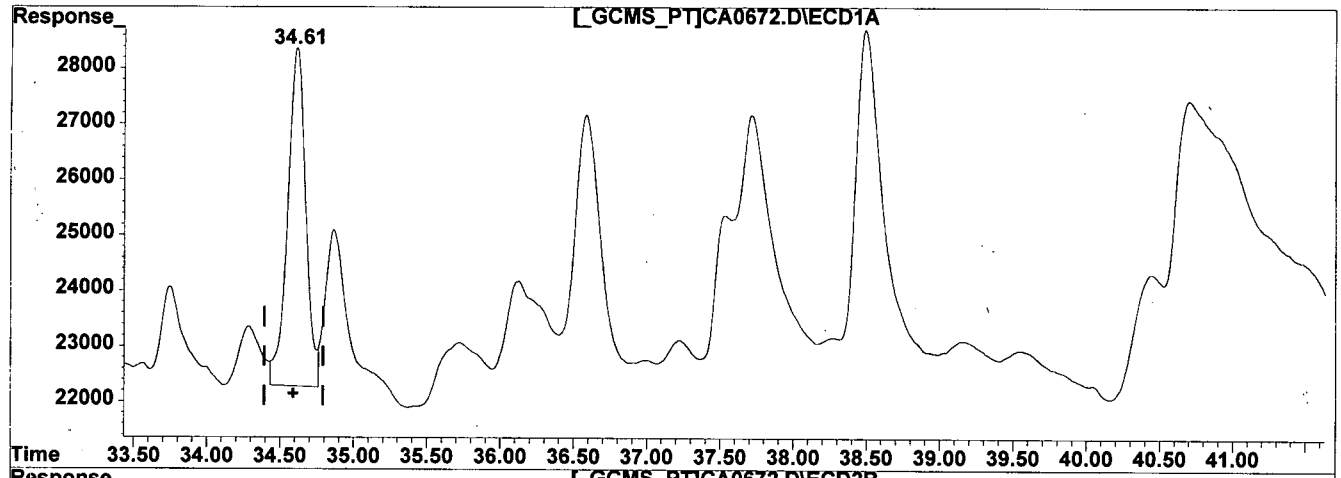


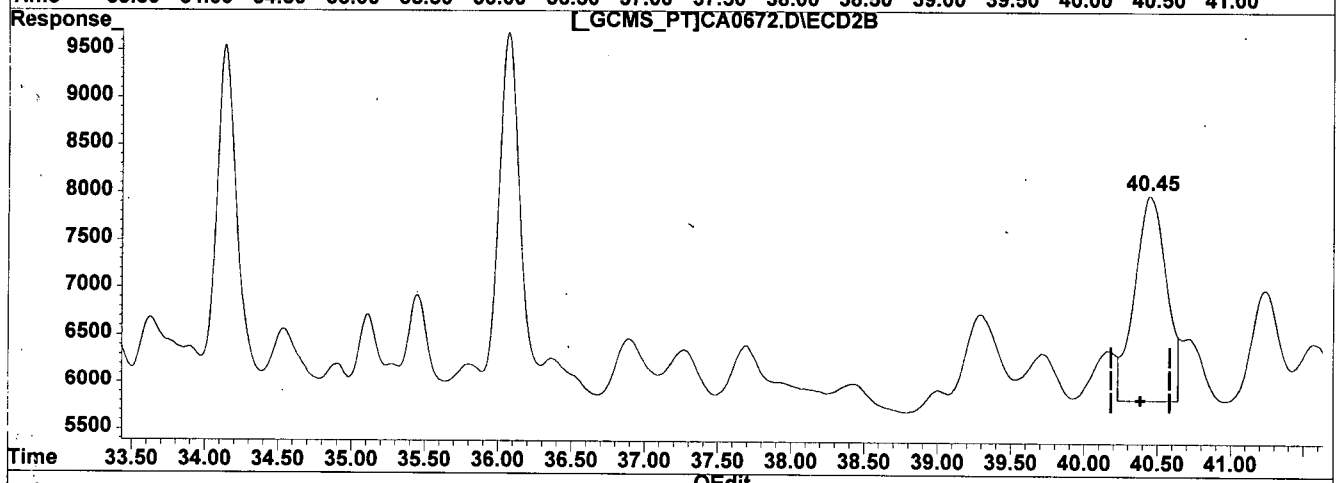


Quantitation Report

Signal #1 : C:\DATA_03\CA0672.D\ECD1A.CH Vial: 10
Signal #2 : C:\DATA_03\CA0672.D\ECD2B.CH
Acq On : 10 Jul 97 , 00:02 Operator:
Sample : 266319 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:38 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

34.61min 18.798ng/ml m

response 523566

(22) Decachlorobiphenyl #2 (SA)

40.45min 28.196ng/ml m

response 323258

(+) = Expected Retention Time

CA0672.D CLP_3.M Tue Jul 22 09:01:13 1997 GC

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE10

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266320

Sample wt/vol: 30.0 (g/mL) G Lab File ID: CA0668

% Moisture: 6. decanted: (Y/N) N Date Received: 06/27/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan Sulfate	3.5	U
50-29-3	4,4'-DDT	3.5	U
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	35.	U
11104-28-2	Aroclor-1221	35.	U
11141-16-5	Aroclor-1232	35.	U
53469-21-9	Aroclor-1242	35.	U
12672-29-6	Aroclor-1248	35.	U
11097-69-1	Aroclor-1254	750.	J, P
11096-82-5	Aroclor-1260	35.	U

Use this Data

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : J:\CA0668.D\ECD1A.CH Vial: 6
Signal #2 : J:\CA0668.D\ECD2B.CH
Acq On : 9 Jul 97 20:48 Operator:
Sample : 266320 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:15 1997 Quant Results File: CLP_3.RES

Quant Method : I:\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
) SA Tetrachloro-m-xy	7.16	7.98	445082	146475	20.458	19.348
Spiked Amount 20.000 Range 60 - 150 Recovery =					102.29%	96.74%
22) SA Decachlorobiphen	34.60	40.41	613480	273488	22.027m	23.854m
Spiked Amount 20.000 Range 60 - 150 Recovery =					110.14%	119.27%
Target Compounds						
26) L1 Aroclor-1016{4}	13.58	15.10	1011092	44699	4125.423	428.444 #
2) L1 Aroclor-1016{5}	15.27	0.00	8730768	0	9472.310	N.D. #
Sum Aroclor-1016			9741859	44699	13597.732	428.444
Average Aroclor-1016					6798.866 NP	428.444 NP
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
3) L3 Aroclor-1232{4}	15.27	15.10	8730768	44699	9472.310	428.444 #
Sum Aroclor-1232			8730768	44699	9472.310	428.444
Average Aroclor-1232					9472.310 NP	428.444 NP
38) L4 Aroclor-1242{4}	13.58	15.10	1011092	44699	1987.820	244.057 #
39) L4 Aroclor-1242{5}	15.27	0.00	8730768	0	6945.088	N.D. #
Sum Aroclor-1242			9741859	44699	8932.709	244.057
Average Aroclor-1242					4466.354 NP	244.057 NP
42) L5 Aroclor-1248{3}	15.27	0.00	8730768	0	5412.281	N.D. #
4) L5 Aroclor-1248{5}	16.69	0.00	2126912	0	4008.482	N.D. #
Sum Aroclor-1248			10857679	0	9420.763	N.D.
Average Aroclor-1248					4710.381 NP	0.000
4) L6 Aroclor-1254{1}	17.16	19.77	920677	6875389	677.002	13275.739 #
46) L6 Aroclor-1254{2}	18.02	20.15	4046728	268686	3587.169m	424.889 #
4) L6 Aroclor-1254{3}	20.38	21.52	3065766	666904	1982.152m	2073.674m
4) L6 Aroclor-1254{4}	21.67	22.98	1985021	722418	2136.358	791.350 #
49) L6 Aroclor-1254{5}	22.33	24.43	1628683	423449	2219.045	712.817 #

Rmw 7/14/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : J:\CA0668.D\ECD1A.CH Vial: 6
Signal #2 : J:\CA0668.D\ECD2B.CH
Acq On : 9 Jul 97 20:48 Operator:
Sample : 266320 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:15 1997 Quant Results File: CLP_3.RES

Quant Method : I:\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
Sum Aroclor-1254			11646875	8956846	10601.726	17278.468
Average Aroclor-1254					2120.345	3455.694
50) L7 Aroclor-1260{1}	20.39	22.98	5626485	722418	7617.770	1304.832 #
51) L7 Aroclor-1260{2}	21.10	23.96	1562332	590296	1202.442	941.871
52) L7 Aroclor-1260{3}	22.33	24.43	1628683	423449	1091.172	568.174 #
53) L7 Aroclor-1260{4}	25.89	27.01	1130307	163220	1241.331	278.134 #
54) L7 Aroclor-1260{5}	27.40	29.75	927110	391673	436.160	294.007 #
Sum Aroclor-1260			10874917	2291056	11588.875	3387.018
Average Aroclor-1260					2317.775	677.404
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

7/14/97

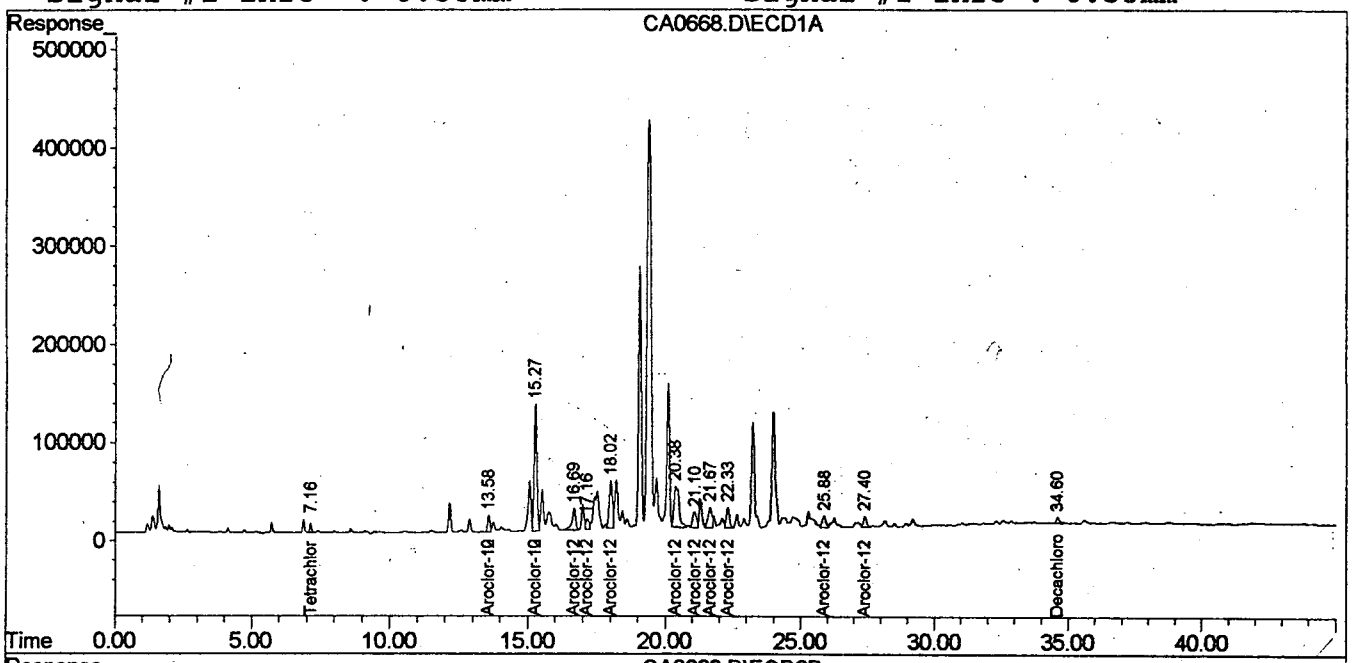
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

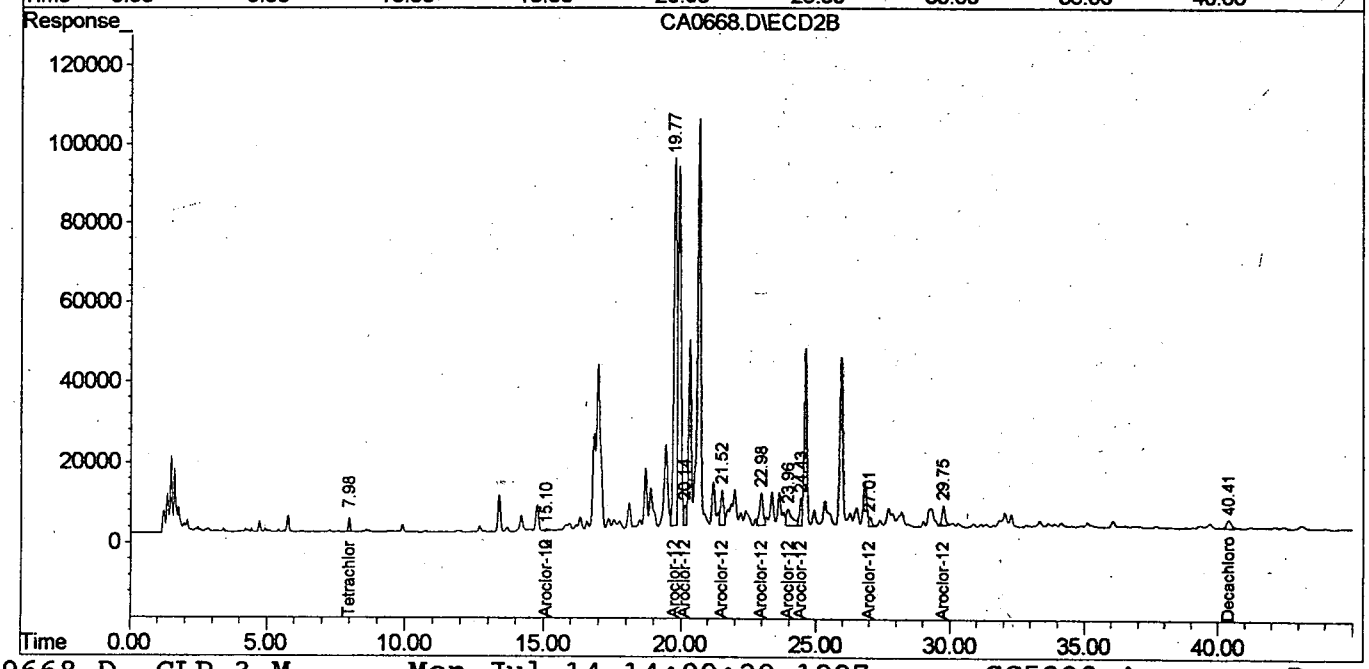
Quantitation Report

Signal #1 : J:\CA0668.D\ECD1A.CH Vial: 6
Signal #2 : J:\CA0668.D\ECD2B.CH
Acq On : 9 Jul 97 20:48 Operator:
Sample : 266320 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:15 1997 Quant Results File: CLP_3.RES

Quant Method : I:\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

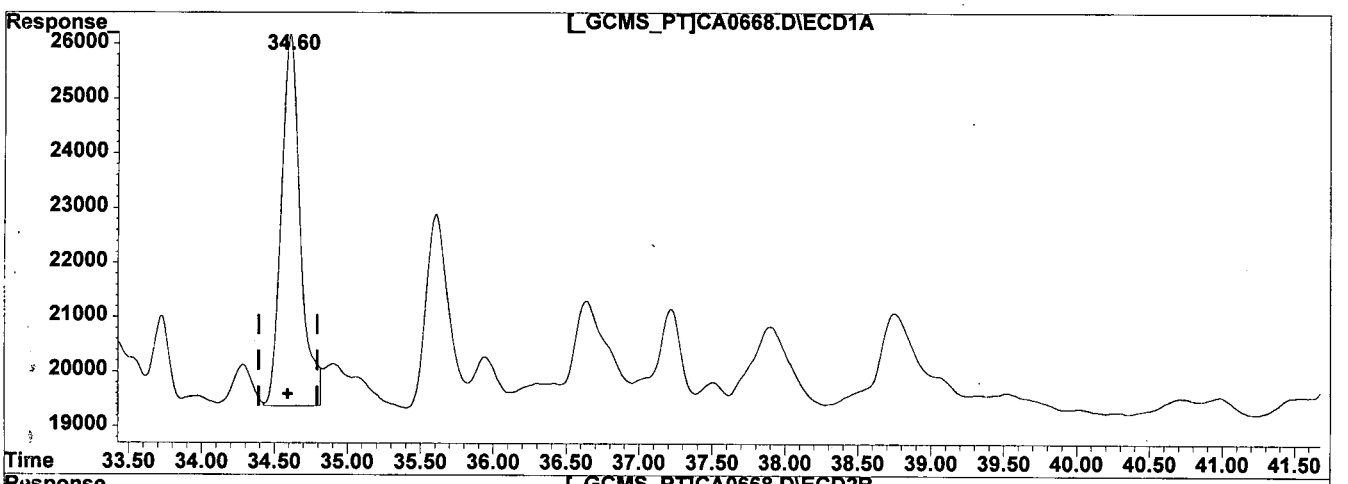


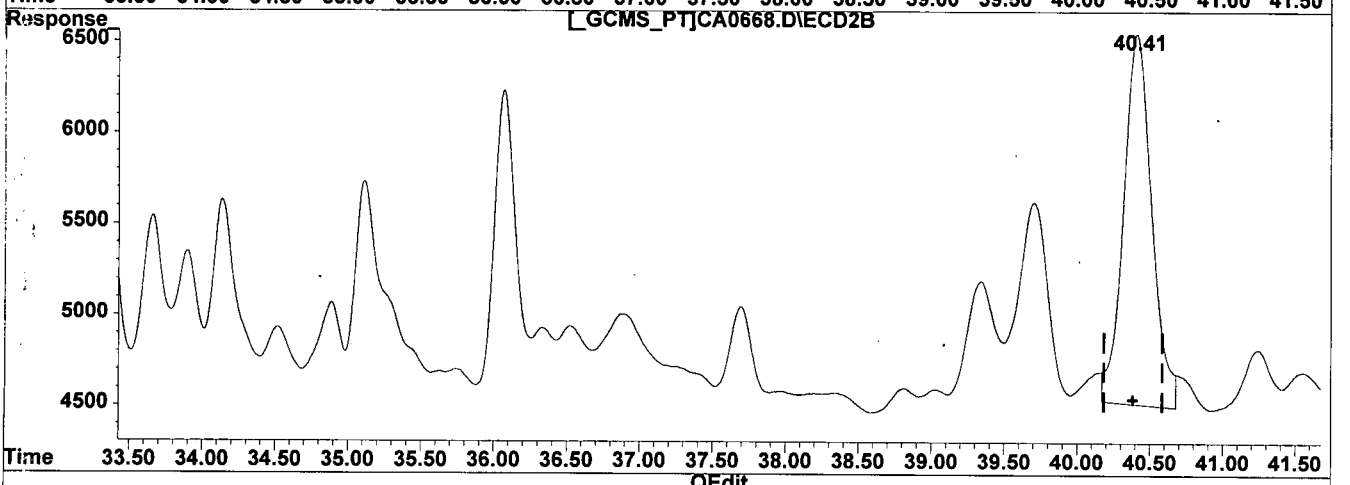


Quantitation Report

Signal #1 : C:\DATA_03\CA0668.D\ECD1A.CH Vial: 6
Signal #2 : C:\DATA_03\CA0668.D\ECD2B.CH
Acq On : 9 Jul 97 20:48 Operator:
Sample : 266320 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:15 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

34.60min 22.027ng/ml m

response 613480

(22) Decachlorobiphenyl #2 (SA)

40.41min 23.854ng/ml m

response 273488

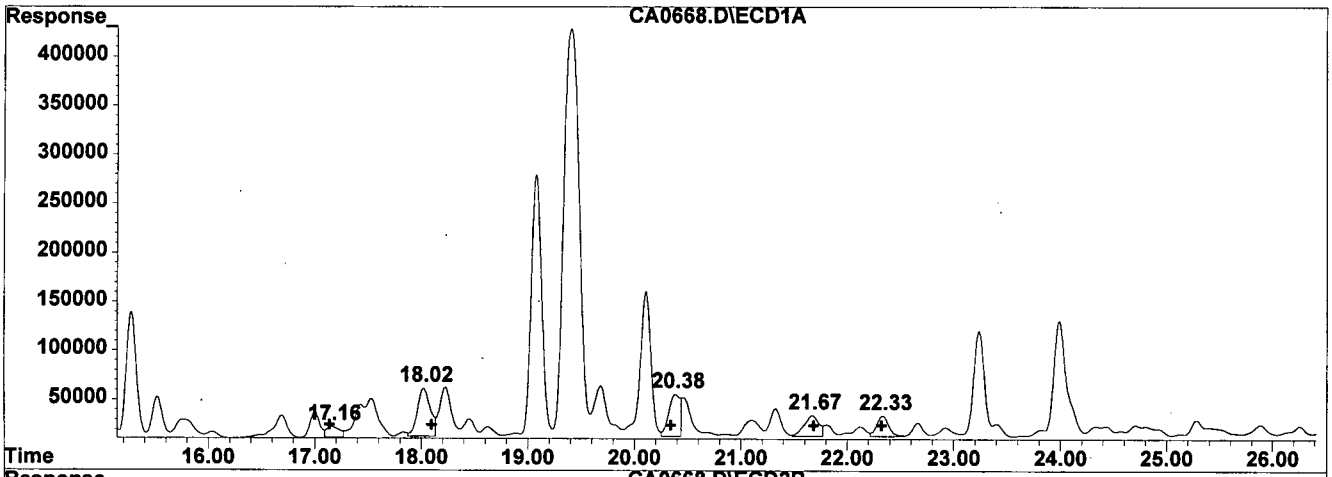
(+) = Expected Retention Time

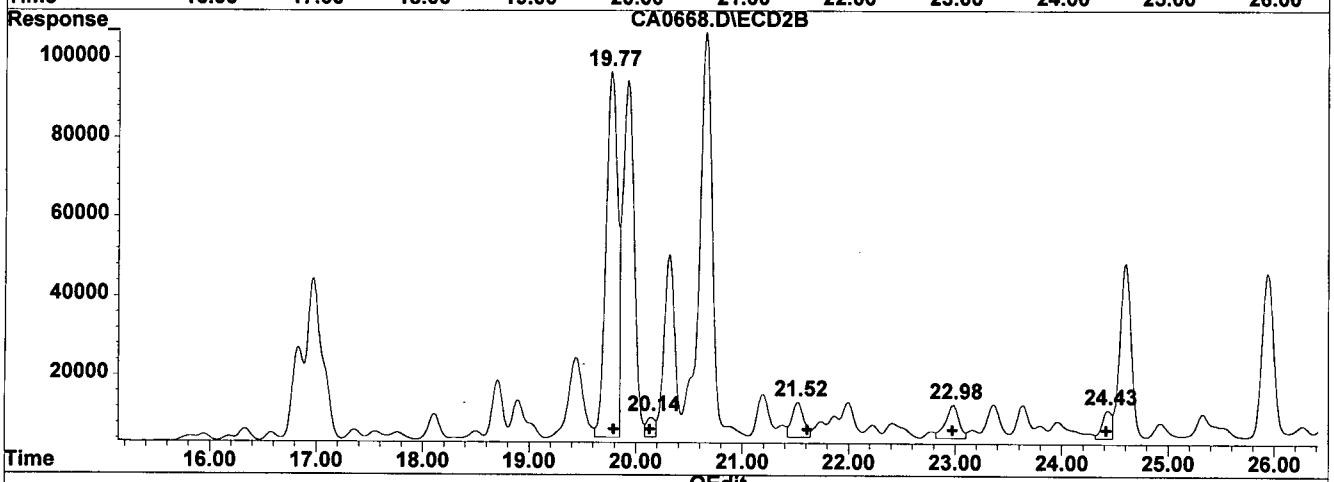
CA0668.D CLP_3.M Tue Jul 22 09:01:58 1997 GC

Quantitation Report

Signal #1 : C:\DATA_03\CA0668.D\ECD1A.CH Vial: 6
Signal #2 : C:\DATA_03\CA0668.D\ECD2B.CH
Acq On : 9 Jul 97 20:48 Operator:
Sample : 266320 Inst : GC_5890_3
Misc : QPP7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 14 12:15 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(45) Aroclor-1254{1} (L6)

R.T.	Response	Conc
17.16	920677	677.00
18.02	4046728	3587.17
20.38	3065766	1982.15
21.67	1985021	2136.36
22.33	1628683	2219.04

(45) Aroclor-1254{1} #2 (L6)

R.T.	Response	Conc
19.77	6875389	13275.74
20.15	268686	424.89
21.52	666904	2073.67
22.98	722418	791.35
24.43	423449	712.82

(+) = Expected Retention Time

CA0668.D CLP_3.M Wed Jul 23 11:00:44 1997 GC

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE10 DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266320

Sample wt/vol: 30.0 (g/mL) G Lab File ID: CA0748

% Moisture: 6. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/15/97

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 4.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	18.	U
319-85-7	beta-BHC	18.	U
319-86-8	delta-BHC	18.	U
58-89-9	gamma-BHC (Lindane)	18.	U
76-44-8	Heptachlor	18.	U
309-00-2	Aldrin	18.	U
1024-57-3	Heptachlor epoxide	18.	U
959-98-8	Endosulfan I	18.	U
60-57-1	Dieldrin	35.	U
72-55-9	4,4'-DDE	35.	U
72-20-8	Endrin	35.	U
33213-65-9	Endosulfan II	35.	U
72-54-8	4,4'-DDD	35.	U
1031-07-8	Endosulfan Sulfate	35.	U
50-29-3	4,4'-DDT	35.	U
72-43-5	Methoxychlor	180.	U
53494-70-5	Endrin ketone	35.	U
7421-93-4	Endrin aldehyde	35.	U
5103-71-9	alpha-Chlordane	18.	U
5103-74-2	gamma-Chlordane	18.	U
8001-35-2	Toxaphene	1800.	U
12674-11-2	Aroclor-1016	350.	U
11104-28-2	Aroclor-1221	350.	U
11141-16-5	Aroclor-1232	350.	U
53469-21-9	Aroclor-1242	350.	U
12672-29-6	Aroclor-1248	350.	U
11097-69-1	Aroclor-1254	1000.	J DR
11096-82-5	Aroclor-1260	350.	U

Do Not Use this Data

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0748.D\ECD1A.CH Vial: 7
Signal #2 : I:\CA0748.D\ECD2B.CH
Acq On : 15 Jul 97 17:03 Operator:
Sample : 266320 10X Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:56 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
) SA Tetrachloro-m-xy	7.23	8.05	42040	15433	2.078	2.202
Spiked Amount 20.000 Range 60 - 150 Recovery =					10.39%#	11.01%#
22) SA Decachlorobiphen	34.81	40.70	68886	30987	2.769m	2.964m
Spiked Amount 20.000 Range 60 - 150 Recovery =					13.85%#	14.82%#
Target Compounds						
26) L1 Aroclor-1016{4}	13.70	0.00	98086	0	151.686	N.D. #
2) L1 Aroclor-1016{5}	0.00	17.69	0	24488	N.D.	102.129 #
Sum Aroclor-1016			98086	24488	151.686	102.129
Average Aroclor-1016					151.686	102.129
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
3) L3 Aroclor-1232{4}	15.40	0.00	1048342	0	1701.522	N.D. #
Sum Aroclor-1232			1048342	0	1701.522	N.D.
Average Aroclor-1232					1701.522	0.000
3) L4 Aroclor-1242{4}	13.70	0.00	98086	0	212.332	N.D. #
39) L4 Aroclor-1242{5}	15.40	17.69	1048342	24488	1001.346	107.049 #
Sum Aroclor-1242			1146428	24488	1213.678	107.049
Average Aroclor-1242					606.839	107.049
42) L5 Aroclor-1248{3}	15.40	0.00	1048342	0	896.417	N.D. #
Sum Aroclor-1248			1048342	0	896.417	N.D.
Average Aroclor-1248					896.417	0.000
4) L6 Aroclor-1254{1}	17.29	19.91	132652	769977	110.610m	1646.585 #
4) L6 Aroclor-1254{2}	18.15	20.29	419194	44410	415.544m	80.602 #
47) L6 Aroclor-1254{3}	20.52	21.67	445523	56964	363.526	274.993m
48) L6 Aroclor-1254{4}	21.26	23.14	162798	110526	269.308m	124.021 #
4) L6 Aroclor-1254{5}	22.48	24.59	156592	56798	258.423m	146.298 #
Sum Aroclor-1254			1316759	1038675	1417.412	2272.500
Average Aroclor-1254					283.482	454.500

MP ok DMW 7/23/97

MP 7/22/97

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

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0748.D\ECD1A.CH Vial: 7
Signal #2 : I:\CA0748.D\ECD2B.CH
Acq On : 15 Jul 97 17:03 Operator:
Sample : 266320 10X Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:56 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
50)	L7 Aroclor-1260{1}	20.52	23.14	445523	110526	670.847	276.438	#
51)	L7 Aroclor-1260{2}	0.00	24.11	0	80658	N.D.	137.595	#
52)	L7 Aroclor-1260{3}	0.00	24.59	0	56798	N.D.	83.582	#
53)	L7 Aroclor-1260{5}	0.00	29.91	0	30495	N.D.	25.530	#
	Sum Aroclor-1260			445523	278477	670.847	523.146	
	Average Aroclor-1260					670.847	130.787	
55)	L8 Toxaphene{1}	0.00	23.31	0	20807	N.D.	148.607	#
	Sum Toxaphene			0	20807	N.D.	148.607	
	Average Toxaphene					0.000	148.607	

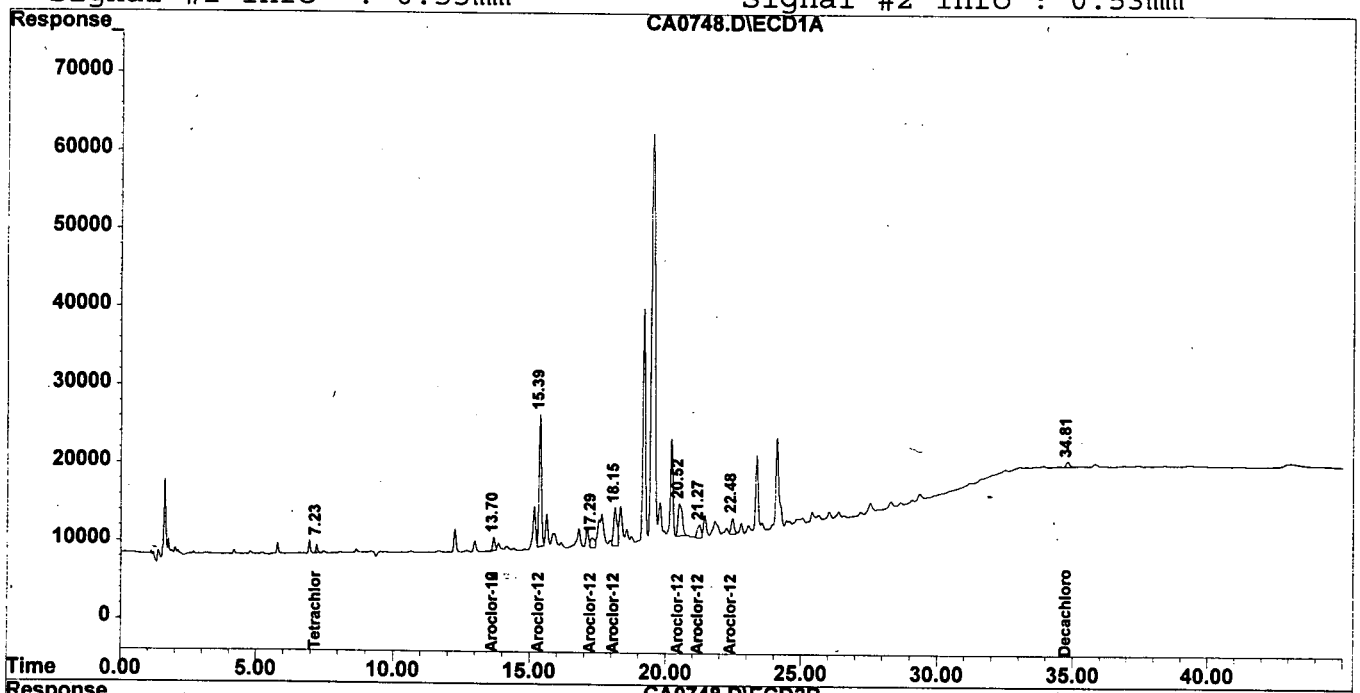
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

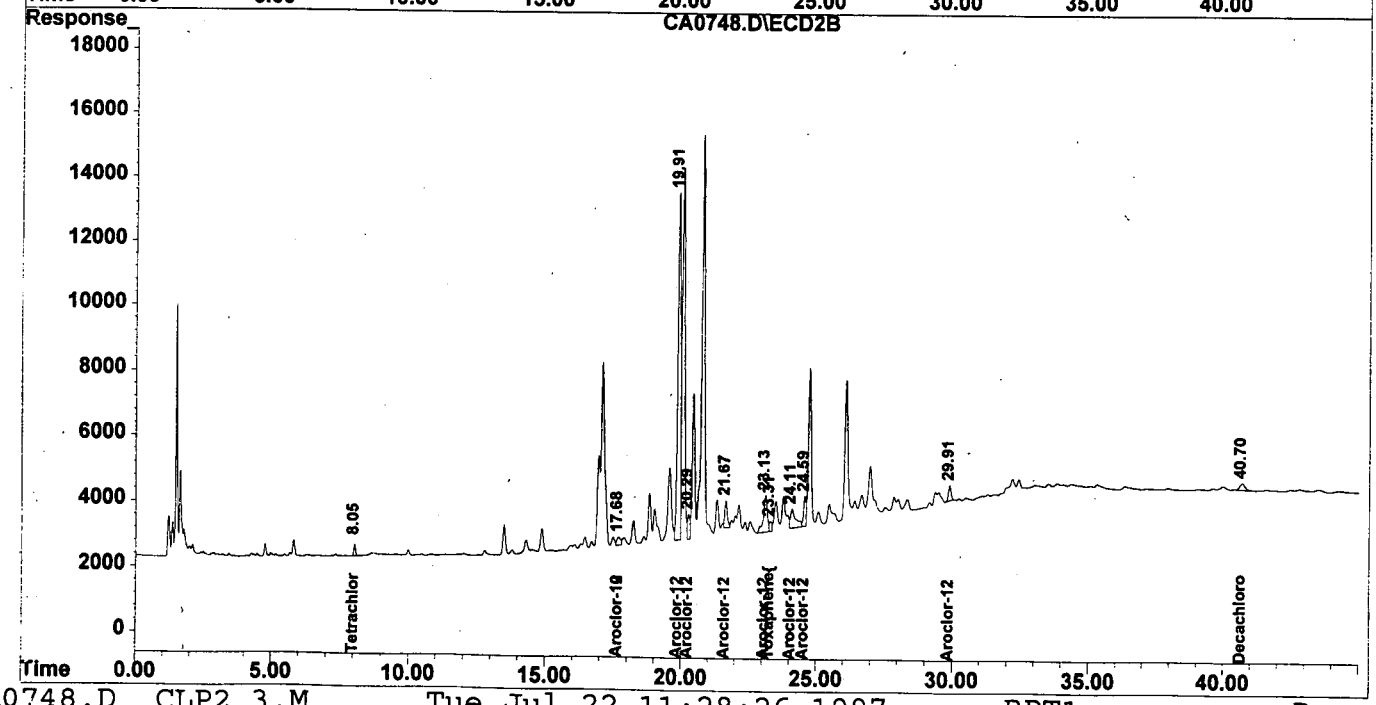
Quantitation Report

Signal #1 : I:\CA0748.D\ECD1A.CH Vial: 7
Signal #2 : I:\CA0748.D\ECD2B.CH
Acq On : 15 Jul 97 17:03 Operator:
Sample : 266320 10X Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:56 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm



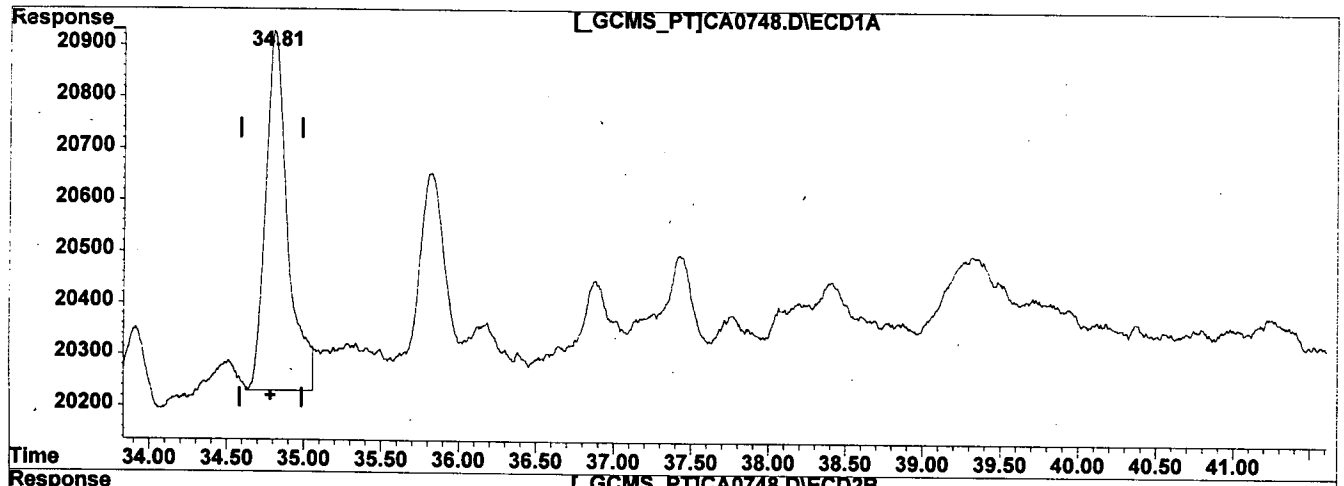


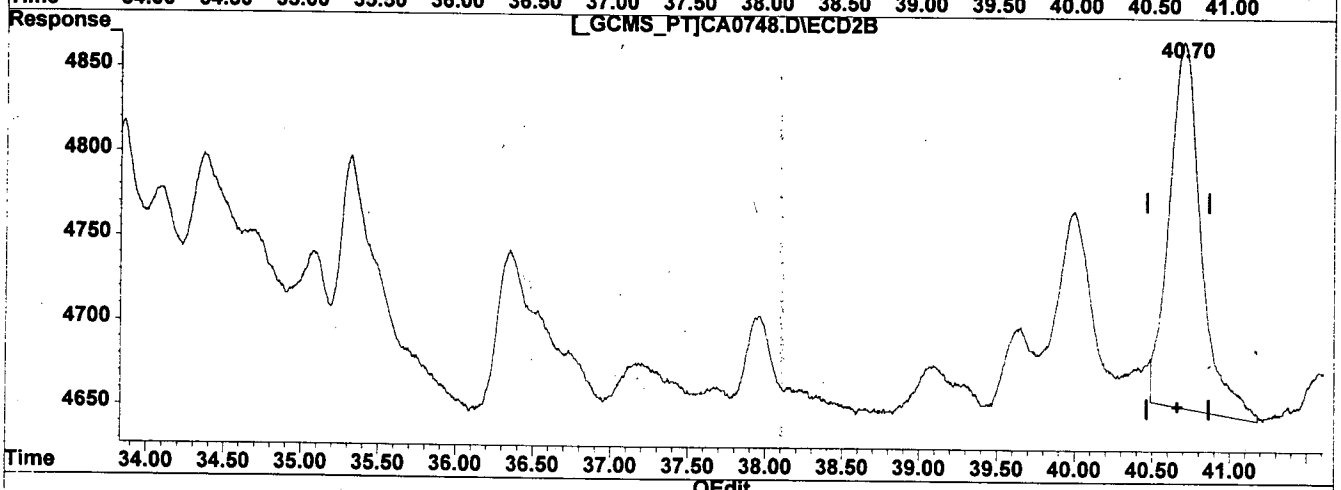
Quantitation Report

Signal #1 : I:\CA0748.D\ECD1A.CH
Signal #2 : I:\CA0748.D\ECD2B.CH
Acq On : 15 Jul 97 17:03
Sample : 266320 10X
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 20:03 1997 Quant Results File: CLP2_3.RES

Vial: 7
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

34.81min 2.769ng/ml m

response 68886

(22) Decachlorobiphenyl #2 (SA)

40.70min 2.964ng/ml m

response 30987

(+) = Expected Retention Time

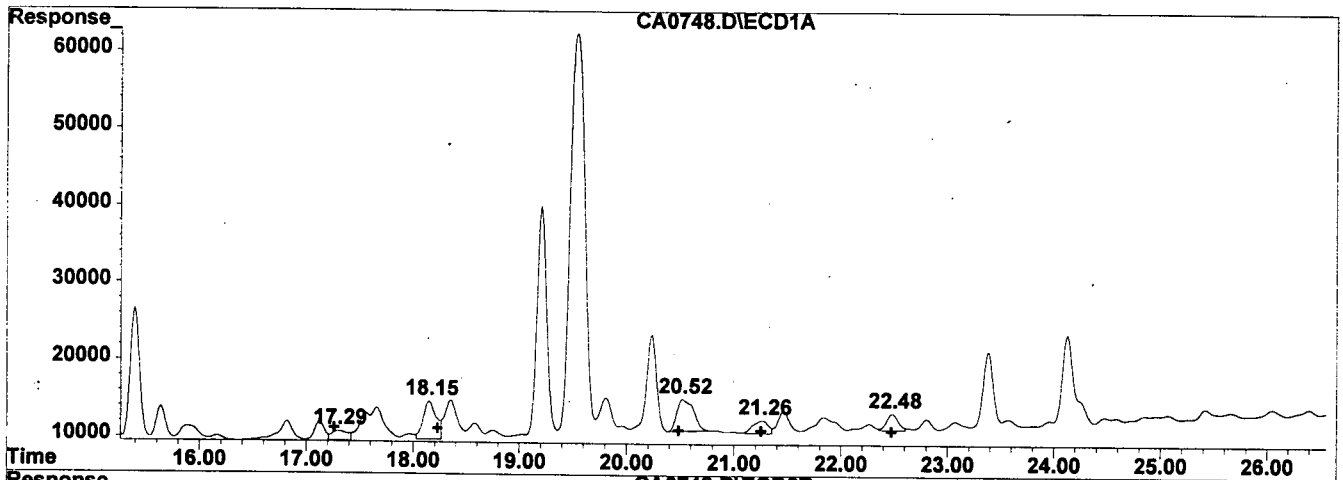
CA0748.D CLP2_3.M Tue Jul 22 10:55:04 1997 RPT1

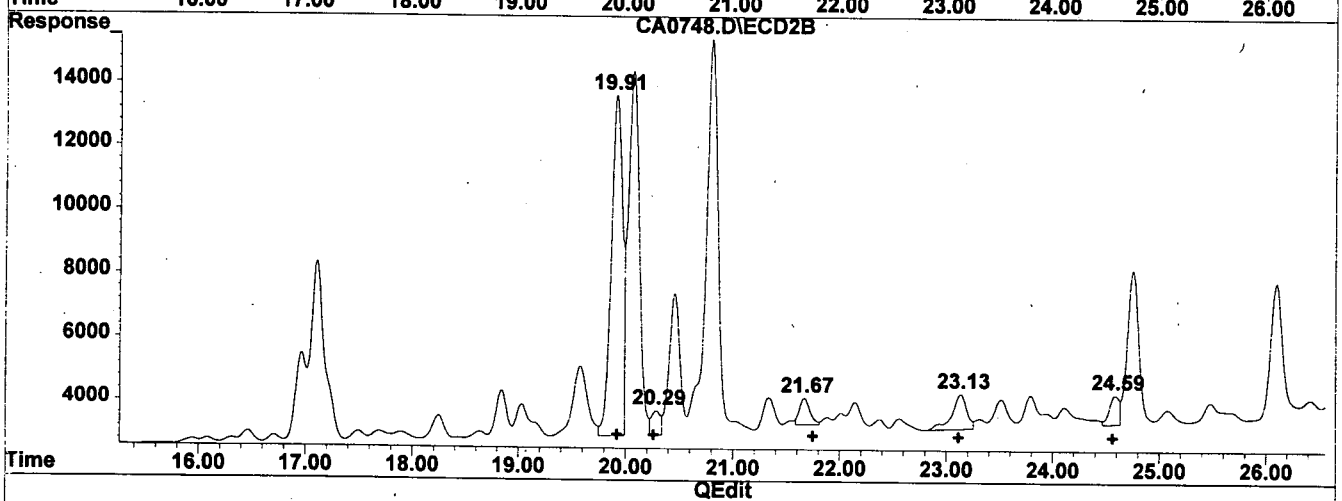
Quantitation Report

Signal #1 : I:\CA0748.D\ECD1A.CH
Signal #2 : I:\CA0748.D\ECD2B.CH
Acq On : 15 Jul 97 17:03
Sample : 266320 10X
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 20:03 1997 Quant Results File: CLP2_3.RES

Vial: 7
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(45) Aroclor-1254{1} #2 (L6)

R.T.	Response	Conc
17.29	132652	110.61
18.15	419194	415.54
20.52	445523	363.53
21.26	162798	269.31
22.48	156592	258.42

(45) Aroclor-1254{1} #2 (L6)

R.T.	Response	Conc
19.91	769977	1646.59
20.29	44410	80.60
21.67	56964	274.99
23.14	110526	124.02
24.59	56798	146.30

(+) = Expected Retention Time

CA0748.D CLP2_3.M Tue Jul 22 10:56:11 1997 RPT1

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE11

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266321

Sample wt/vol: 30.2 (g/mL) G Lab File ID: CA0730

% Moisture: 14. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/14/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan Sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190.	U
12674-11-2	Aroclor-1016	39.	U
11104-28-2	Aroclor-1221	39.	U
11141-16-5	Aroclor-1232	39.	U
53469-21-9	Aroclor-1242	39.	U
12672-29-6	Aroclor-1248	39.	U
11097-69-1	Aroclor-1254	280.	
11096-82-5	Aroclor-1260	39.	U

Quantitation Report (QT Reviewed)

Vial: 12

Signal #1 : I:\CA0730.D\ECD1A.CH
Signal #2 : I:\CA0730.D\ECD2B.CH
Acq On : 14 Jul 97 22:04
Sample : 266321
Misc : QPC7094
IntFile Signal #1: EVENTS.E
Quant Time: Jul 22 10:02 1997

Operator:
Inst : GC_5890_3
Multiplr: 1.00
IntFile Signal #2: events2.e
Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701
Signal #1 Info : 0.53mm

Signal #2 Phase: DB-608
Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.22	8.04	537940	149202	26.587	21.286
Spiked Amount 20.000 Range 60 - 150 Recovery =					132.94%	106.43%
2) SA Decachlorobiphen	34.77	40.70	551794	374816	22.184m	35.856 #
Spiked Amount 20.000 Range 60 - 150 Recovery =					110.92%	179.28%#
Target Compounds						
23) L1 Aroclor-1016{1}	9.18	10.52	250100	19791	385.815	94.747 #
25) L1 Aroclor-1016{3}	12.62	14.35	163837	59466	78.608	68.924
26) L1 Aroclor-1016{4}	13.68	0.00	128753	0	199.111	N.D. #
27) L1 Aroclor-1016{5}	15.37	17.74	324856	80899	312.067	337.390
Sum Aroclor-1016			867547	160156	975.602	501.060
Average Aroclor-1016					243.990	167.020
30) L2 Aroclor-1221{3}	9.18	10.52	250100	19791	273.229	74.925 #
Sum Aroclor-1221			250100	19791	273.229	74.925
Average Aroclor-1221					273.229	74.925
31) L3 Aroclor-1232{1}	9.18	10.52	250100	19791	472.226	112.230 #
33) L3 Aroclor-1232{3}	12.62	14.35	163837	59466	220.454	177.235
34) L3 Aroclor-1232{4}	15.37	0.00	324856	0	527.260	N.D. #
Sum Aroclor-1232			738793	79257	1219.941	289.466
Average Aroclor-1232					406.647	144.733
35) L4 Aroclor-1242{1}	9.18	10.52	250100	19791	538.282	124.842 #
37) L4 Aroclor-1242{3}	12.62	14.35	163837	59466	101.090	93.782
38) L4 Aroclor-1242{4}	13.68	0.00	128753	0	278.719	N.D. #
39) L4 Aroclor-1242{5}	15.37	17.74	324856	80899	310.293	353.644
Sum Aroclor-1242			867547	160156	1228.383	572.267
Average Aroclor-1242					307.096	190.756
41) L5 Aroclor-1248{2}	12.62	14.35	163837	59466	130.077	110.159
42) L5 Aroclor-1248{3}	15.37	17.74	324856	80899	277.778	244.187
43) L5 Aroclor-1248{4}	0.00	19.14	0	121012	N.D.	353.217 #
44) L5 Aroclor-1248{5}	0.00	21.00	0	59916	N.D.	148.395 #
Sum Aroclor-1248			488693	321293	407.855	855.958
Average Aroclor-1248					203.927	213.990

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

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0730.D\ECD1A.CH
Signal #2 : I:\CA0730.D\ECD2B.CH
Acq On : 14 Jul 97 22:04
Sample : 266321
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:02 1997 Quant Results File: CLP2_3.RES

Vial: 12
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
45) L6	Aroclor-1254{1}	17.27	19.90	750814	541258	626.057	1157.471	#
46) L6	Aroclor-1254{2}	18.22	20.27	591140	219875	585.993	399.063	#
47) L6	Aroclor-1254{3}	20.48	21.75	1308355	80408	1067.557	388.167	#
48) L6	Aroclor-1254{4}	21.25	23.11	452241	452039	748.120	507.234	#
49) L6	Aroclor-1254{5}	22.45	24.56	832145	445923	1373.286	1148.598	
Sum	Aroclor-1254			3934695	1739503	4401.014	3600.532	
Average	Aroclor-1254					880.203	720.106	
50) L7	Aroclor-1260{1}	20.48	23.11	1308355	452039	1970.057	1130.607	#
51) L7	Aroclor-1260{2}	21.25	24.09	452241	314162	373.685	535.929	#
52) L7	Aroclor-1260{3}	22.45	24.56	832145	445923	604.238	656.213	
53) L7	Aroclor-1260{4}	26.02	0.00	466241	0	598.559	N.D.	#
54) L7	Aroclor-1260{5}	0.00	29.88	0	221508	N.D.	185.440	#
Sum	Aroclor-1260			3058983	1433633	3546.540	2508.190	
Average	Aroclor-1260					886.635	627.047	
46) L8	Toxaphene{2}	19.50	0.00	2368901	0	14511.058	N.D.	#
48) L8	Toxaphene{4}	0.00	32.40	0	157183	N.D.	1066.343	#
Sum	Toxaphene			2368901	157183	14511.058	1066.343	
Average	Toxaphene					14511.058	1066.343	

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

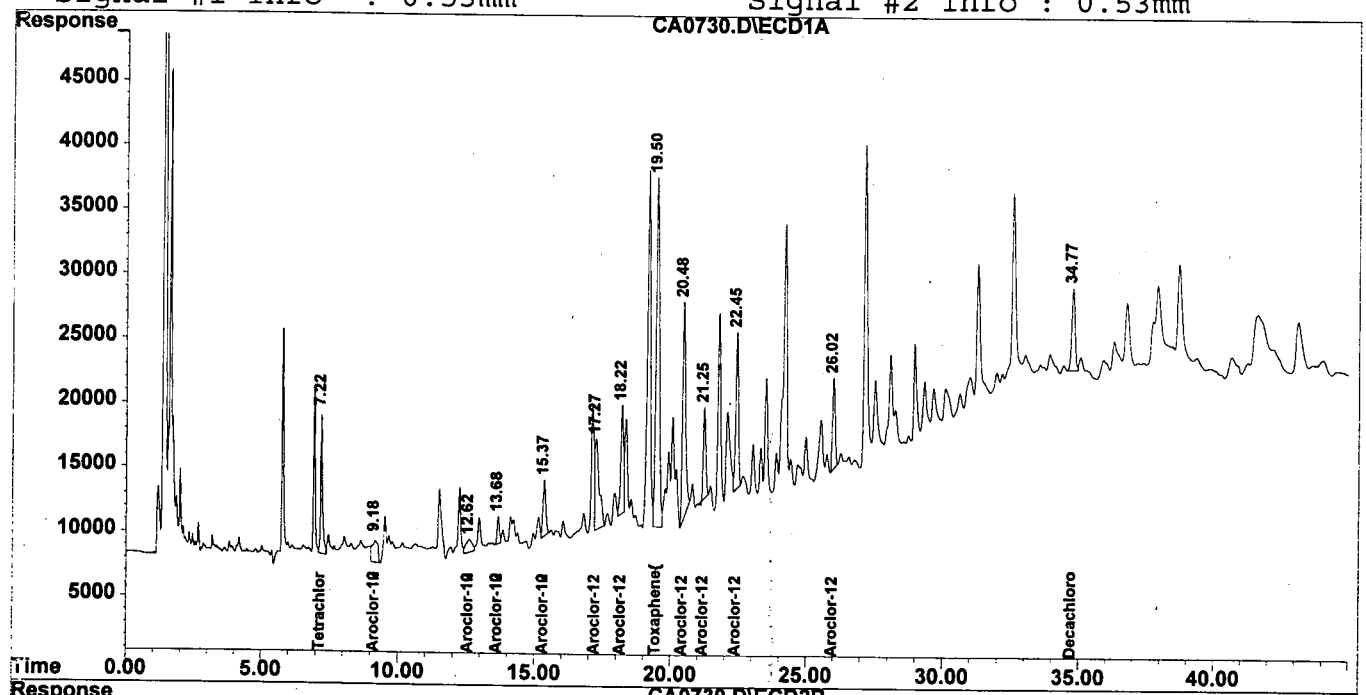
Quantitation Report

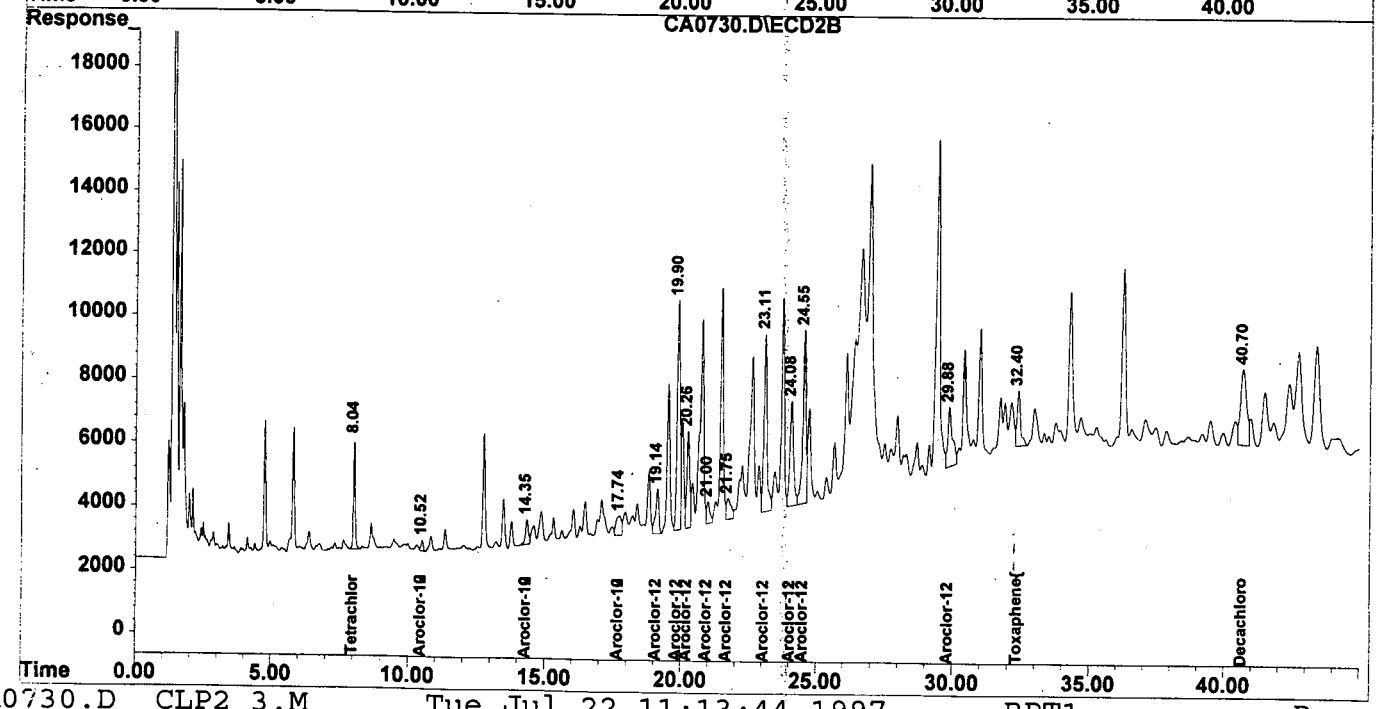
Signal #1 : I:\CA0730.D\ECD1A.CH
Signal #2 : I:\CA0730.D\ECD2B.CH
Acq On : 14 Jul 97 22:04
Sample : 266321
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:02 1997 Quant Results File: CLP2_3.RES

Vial: 12
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701
Signal #1 Info : 0.53mm
Signal #2 Phase: DB-608
Signal #2 Info : 0.53mm



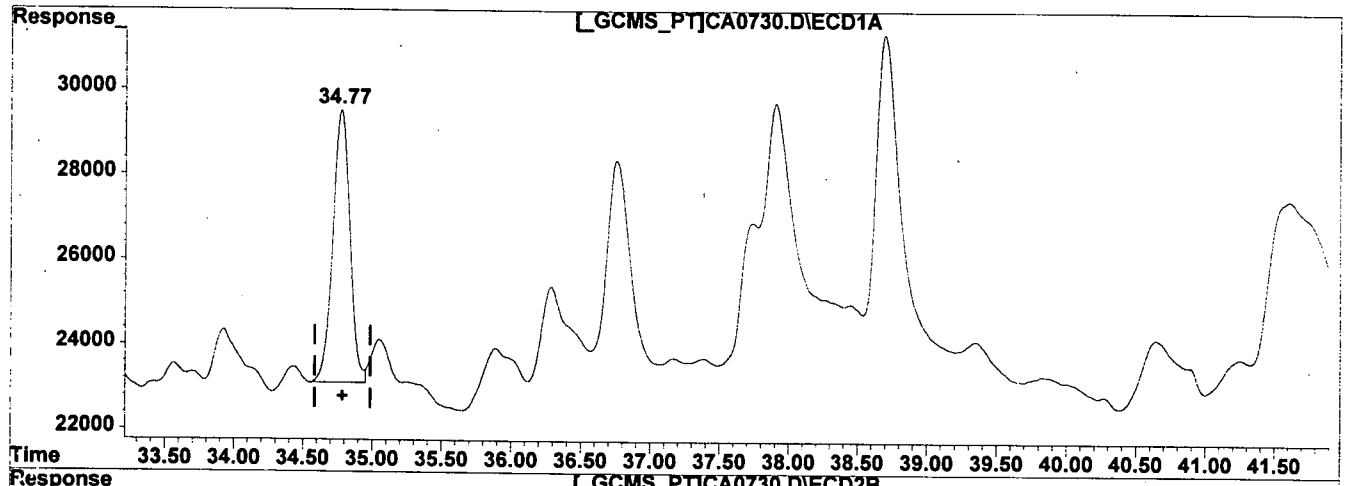


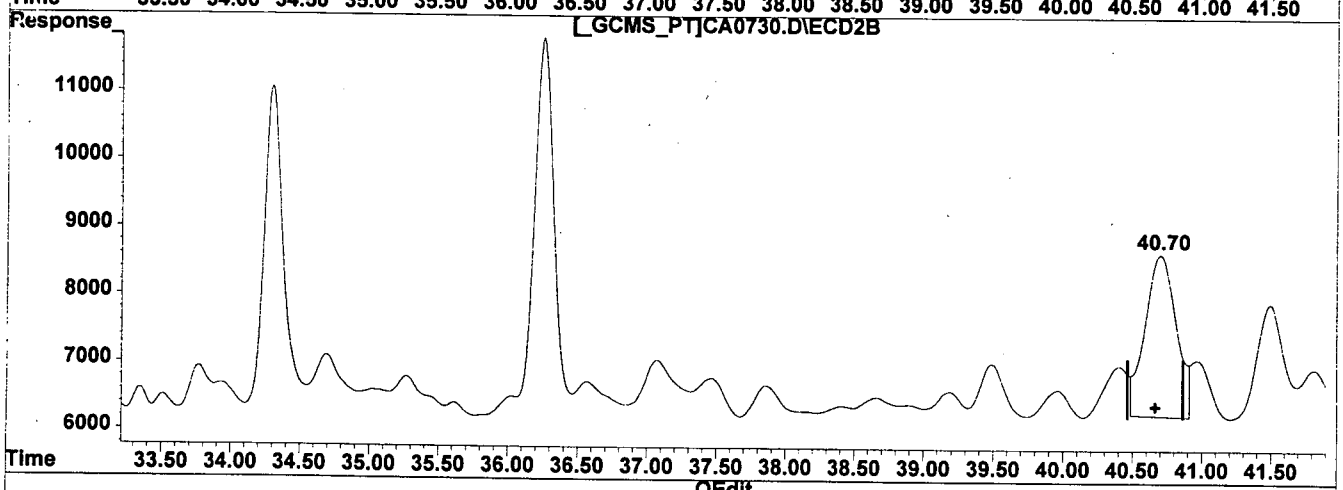
Quantitation Report

Signal #1 : I:\CA0730.D\ECD1A.CH
Signal #2 : I:\CA0730.D\ECD2B.CH
Acq On : 14 Jul 97 22:04
Sample : 266321
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 9:59 1997 Quant Results File: CLP2_3.RES

Vial: 12
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

34.77min 22.184ng/ml m

response 551794

(22) Decachlorobiphenyl #2 (SA)

40.70min 35.856ng/ml

response 374816

(+) = Expected Retention Time

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE12

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266322

Sample wt/vol: 30.0 (g/mL) G Lab File ID: CA0737

% Moisture: 7. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/15/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan Sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	36.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	670.	J P
11096-82-5	Aroclor-1260	36.	U

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0737.D\ECD1A.CH Vial: 19
Signal #2 : I:\CA0737.D\ECD2B.CH
Acq On : 15 Jul 97 5:48 Operator:
Sample : 266322 Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:18 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.21	7.98	889057	179222	43.941m	25.569m#
Spiked Amount 20.000 Range 60 - 150 Recovery =					219.71%#	127.85%
22) SA Decachlorobiphen	34.79	40.72	569433	353726	22.893m	33.839 #
Spiked Amount 20.000 Range 60 - 150 Recovery =					114.47%	169.20%#
Target Compounds						
23) L1 Aroclor-1016{1}	9.17	10.52	1316780	42631	2031.815	204.095 #
24) L1 Aroclor-1016{2}	10.56	12.53	215227	89936	179.135	208.669
25) L1 Aroclor-1016{3}	12.62	14.35	648155	1066582	310.982	1236.216 #
26) L1 Aroclor-1016{4}	13.67	0.00	435630	0	673.682	N.D. #
27) L1 Aroclor-1016{5}	15.33	17.76	1141610	391373	1096.668	1632.217 #
Sum Aroclor-1016			3757401	1590523	4291.782	3281.197
Average Aroclor-1016					858.356	820.299
28) L2 Aroclor-1221{1}	8.44	9.64	145352	210733	480.788	2019.095 #
29) L2 Aroclor-1221{2}	8.87	10.34	140996	127808	565.477	1384.702 #
30) L2 Aroclor-1221{3}	9.17	10.52	1316780	42631	1438.553	161.397 #
Sum Aroclor-1221			1603127	381172	2484.818	3565.194
Average Aroclor-1221					828.273	1188.398
31) L3 Aroclor-1232{1}	9.17	10.52	1316780	42631	2486.272	241.756 #
32) L3 Aroclor-1232{2}	10.56	12.53	215227	89936	479.518	487.830
33) L3 Aroclor-1232{3}	12.62	14.35	648155	1066582	872.137	3178.893 #
34) L3 Aroclor-1232{4}	15.33	0.00	1141610	0	1852.902	N.D. #
Sum Aroclor-1232			3321771	1199150	5690.830	3908.480
Average Aroclor-1232					1422.707	1302.827
35) L4 Aroclor-1242{1}	9.17	10.52	1316780	42631	2834.055	268.923 #
36) L4 Aroclor-1242{2}	10.56	12.53	215227	89936	231.642	274.556
37) L4 Aroclor-1242{3}	12.62	14.35	648155	1066582	399.919	1682.066 #
38) L4 Aroclor-1242{4}	13.67	0.00	435630	0	943.029	N.D. #
39) L4 Aroclor-1242{5}	15.33	17.76	1141610	391373	1090.433	1710.850 #
Sum Aroclor-1242			3757401	1590523	5499.078	3936.395
Average Aroclor-1242					1099.816	984.099

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

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0737.D\ECD1A.CH Vial: 19
Signal #2 : I:\CA0737.D\ECD2B.CH
Acq On : 15 Jul 97 5:48 Operator:
Sample : 266322 Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:18 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
40) L5	Aroclor-1248{1}	10.56	12.53	215227	89936	458.730	597.822	#
41) L5	Aroclor-1248{2}	12.62	14.35	648155	1066582	514.597	1975.311	#
42) L5	Aroclor-1248{3}	15.33	17.76	1141610	391373	976.169	1181.325	
43) L5	Aroclor-1248{4}	15.79	19.15	565089	536078	749.813	1564.733	#
44) L5	Aroclor-1248{5}	16.84	21.00	788860	313291	1659.152	775.933	#
Sum	Aroclor-1248			3358941	2397260	4358.460	6095.625	
Average	Aroclor-1248					871.692	1219.125	
45) L6	Aroclor-1254{1}	17.29	19.93	2510855	683259	2093.648	1461.140	#
46) L6	Aroclor-1254{2}	18.23	20.27	2631217	970500	2608.308	1761.410	#
47) L6	Aroclor-1254{3}	20.47	21.77	5368883	192147	4380.761	927.587	#
48) L6	Aroclor-1254{4}	21.26	23.12	2373093	1561552	3925.685	1752.220	#
49) L6	Aroclor-1254{5}	22.46	24.57	3656518	1306713	6034.339	3365.799	#
Sum	Aroclor-1254			16540565	4714171	19042.740	9268.155	
Average	Aroclor-1254					3808.548	1853.631	
50) L7	Aroclor-1260{1}	20.47	23.12	5368883	1561552	8084.206	3905.636	#
51) L7	Aroclor-1260{2}	21.26	24.10	2373093	881551	1960.877	1503.841	
52) L7	Aroclor-1260{3}	22.46	24.57	3656518	1306713	2655.076	1922.938	#
53) L7	Aroclor-1260{4}	26.03	0.00	2123277	0	2725.854	N.D.	#
54) L7	Aroclor-1260{5}	0.00	29.90	0	631538	N.D.	528.705	#
Sum	Aroclor-1260			13521770	4381354	15426.013	7861.120	
Average	Aroclor-1260					3856.503	1965.280	
56) L8	Toxaphene{2}	19.51	0.00	1709487	0	10471.721	N.D.	#
57) L8	Toxaphene{3}	22.65	0.00	812298	0	3225.557	N.D.	#
58) L8	Toxaphene{4}	0.00	32.40	0	640512	N.D.	4345.282	#
Sum	Toxaphene			2521786	640512	13697.277	4345.282	
Average	Toxaphene					6848.639	4345.282	

7/22/97

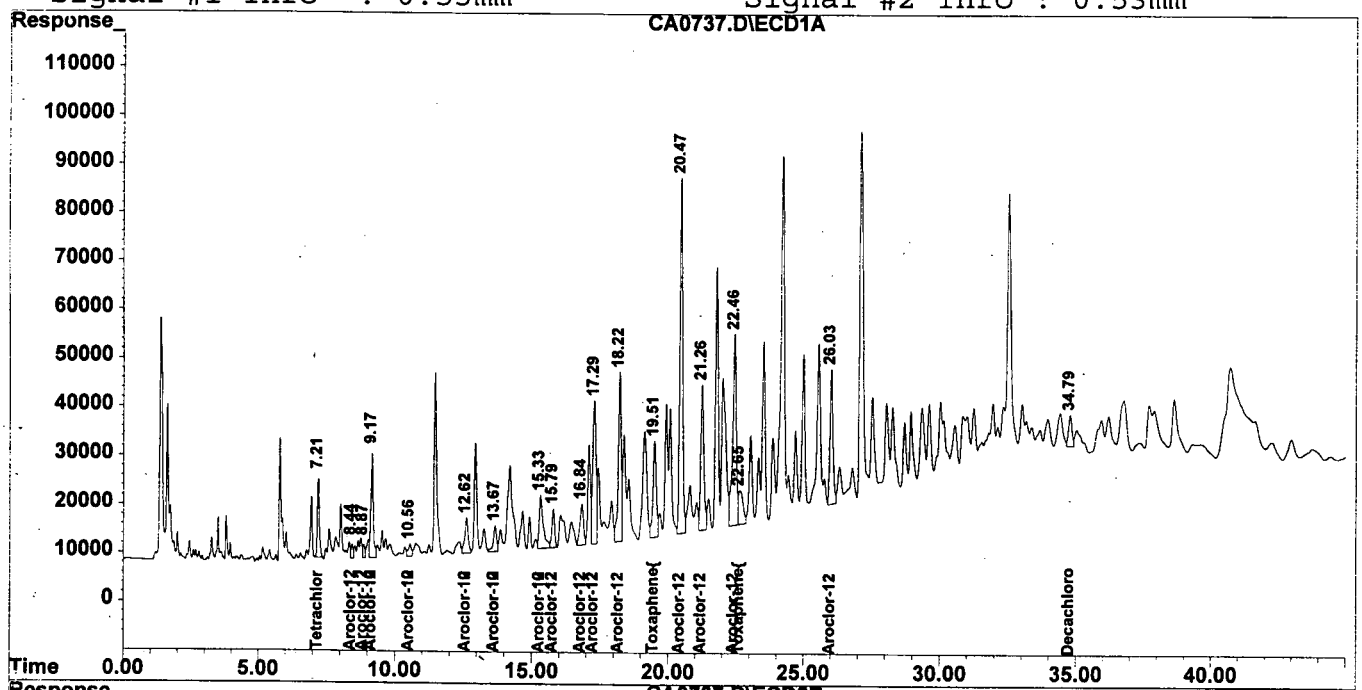
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

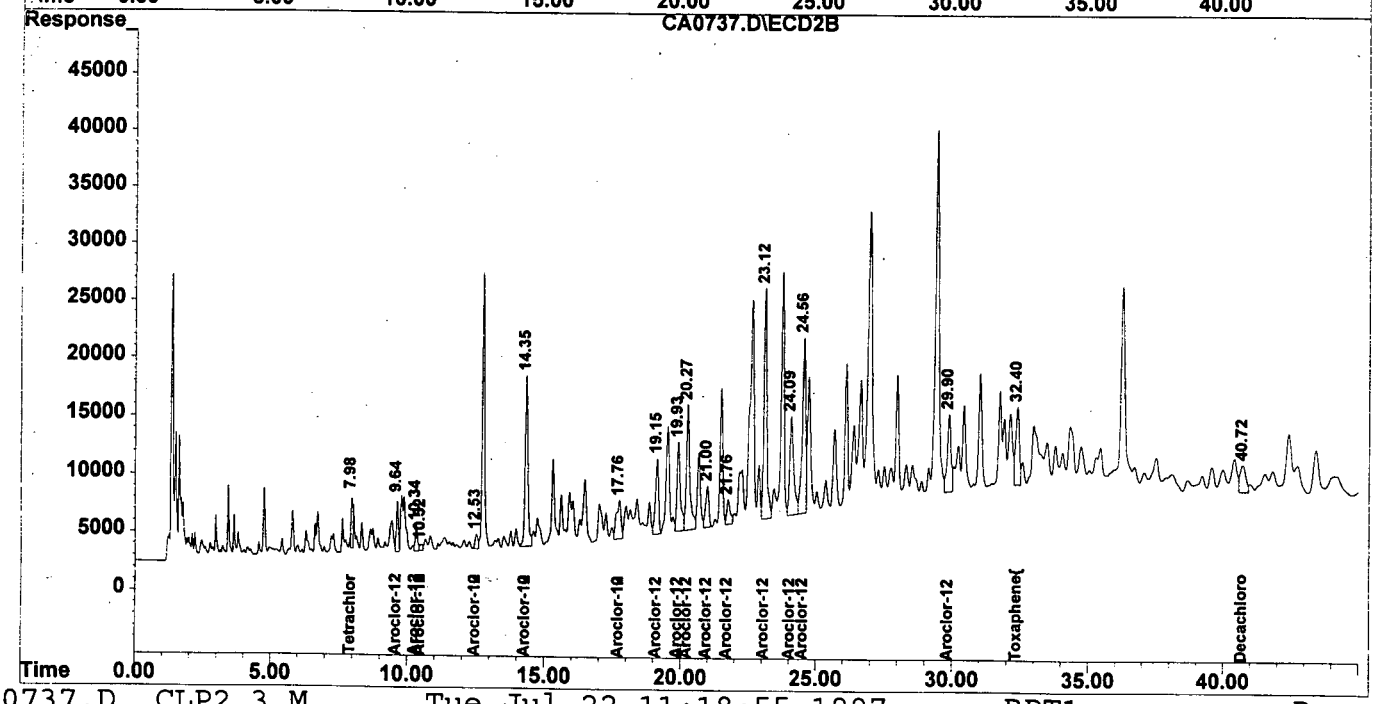
Quantitation Report

Signal #1 : I:\CA0737.D\ECD1A.CH Vial: 19
Signal #2 : I:\CA0737.D\ECD2B.CH
Acq On : 15 Jul 97 5:48 Operator:
Sample : 266322 Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:18 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm



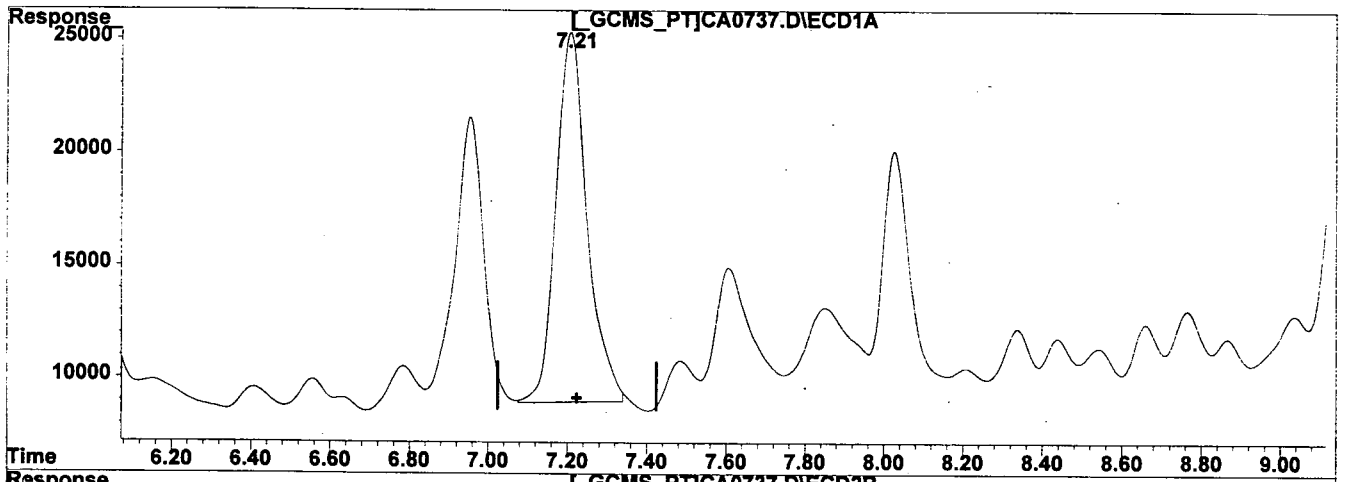


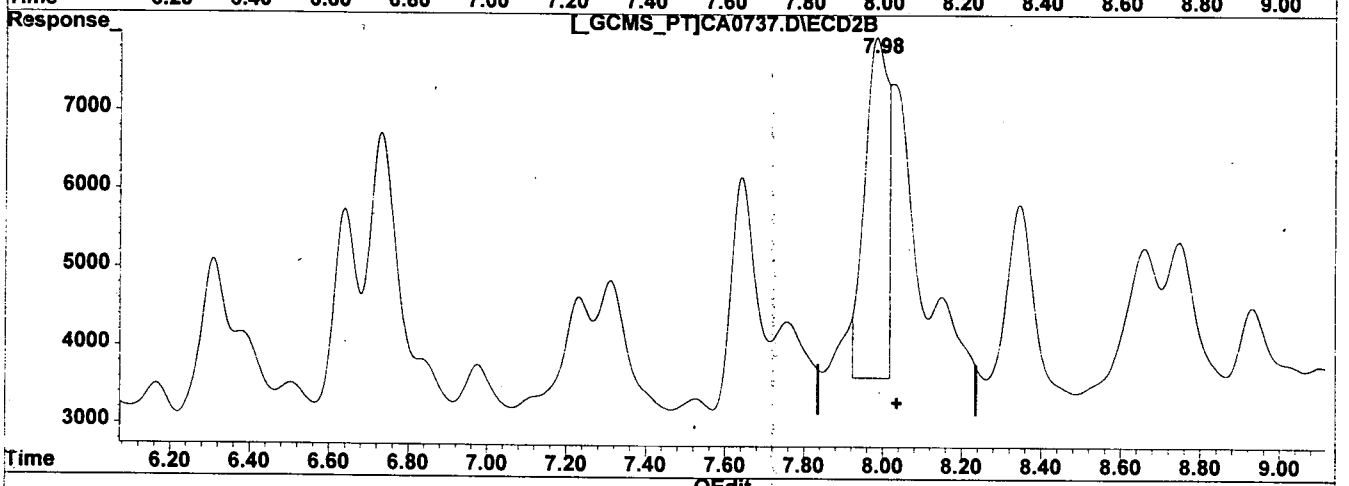
Quantitation Report

Signal #1 : I:\CA0737.D\ECD1A.CH
Signal #2 : I:\CA0737.D\ECD2B.CH
Acq On : 15 Jul 97 5:48
Sample : 266322
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 19:54 1997 Quant Results File: CLP2_3.RES

Vial: 19
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(1) Tetrachloro-m-xylene (SA)

7.21min 43.941ng/ml m

response 889057

(1) Tetrachloro-m-xylene #2 (SA)

7.98min 25.569ng/ml m

response 179222

(+) = Expected Retention Time

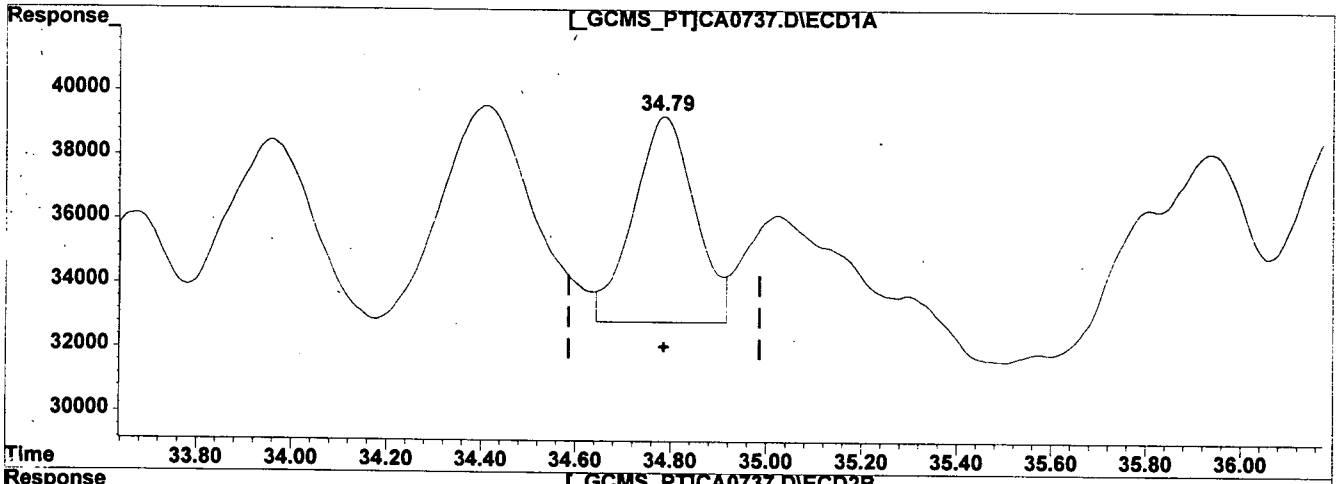
CA0737.D CLP2_3.M Tue Jul 22 10:17:39 1997 RPT1

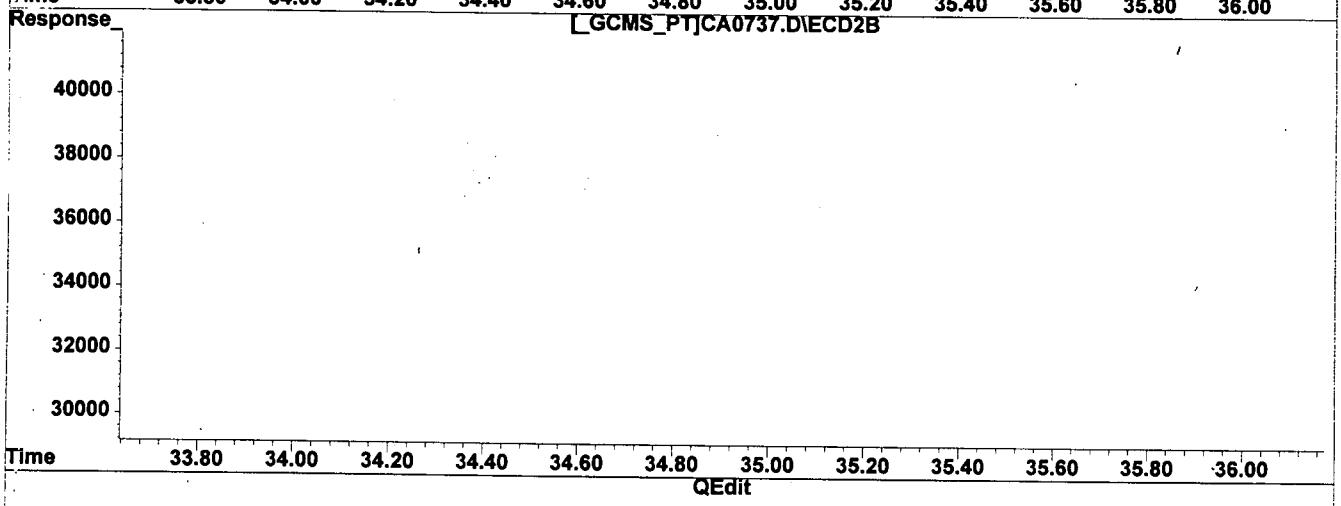
Quantitation Report

Signal #1 : I:\CA0737.D\ECD1A.CH
Signal #2 : I:\CA0737.D\ECD2B.CH
Acq On : 15 Jul 97 5:48
Sample : 266322
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 19:54 1997 Quant Results File: CLP2_3.RES

Vial: 19
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

34.79min 22.893ng/ml m

response 569433

(22) Decachlorobiphenyl #2 (SA)

40.72min 33.839ng/ml

response 353726

(+) = Expected Retention Time

CA0737.D CLP2_3.M Tue Jul 22 10:18:37 1997 RPT1

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE13

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266323

Sample wt/vol: 30.0 (g/mL) G Lab File ID: CA0727

% Moisture: 13. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/14/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan Sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190.	U
12674-11-2	Aroclor-1016	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	370.	J ~~P~~
11096-82-5	Aroclor-1260	38.	U

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0727.D\ECD1A.CH Vial: 9
Signal #2 : I:\CA0727.D\ECD2B.CH
Acq On : 14 Jul 97 19:38 Operator:
Sample : 266323 Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 9:50 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.22	8.04	484562	135286	23.949	19.300
Spiked Amount 20.000 Range 60 - 150 Recovery =					119.75%	96.50%
22) SA Decachlorobiphen	34.77	40.68	542264	347823	21.801m	33.274m#
Spiked Amount 20.000 Range 60 - 150 Recovery =					109.01%	166.37%#
Target Compounds						
23) L1 Aroclor-1016{1}	9.08	0.00	98319	0	151.670	N.D. #
24) L1 Aroclor-1016{2}	10.61	0.00	244257	0	203.297	N.D. #
25) L1 Aroclor-1016{3}	12.62	14.35	181578	129978	87.121	150.650 #
26) L1 Aroclor-1016{4}	13.68	0.00	49156	0	76.017	N.D. #
27) L1 Aroclor-1016{5}	15.33	17.76	494433	102912	474.968	429.193
Sum Aroclor-1016			1067743	232890	993.073	579.843
Average Aroclor-1016					198.615	289.922
30) L2 Aroclor-1221{3}	9.08	0.00	98319	0	107.411	N.D. #
Sum Aroclor-1221			98319	0	107.411	N.D.
Average Aroclor-1221					107.411	0.000
31) L3 Aroclor-1232{1}	9.08	0.00	98319	0	185.640	N.D. #
32) L3 Aroclor-1232{2}	10.61	0.00	244257	0	544.197	N.D. #
33) L3 Aroclor-1232{3}	12.62	14.35	181578	129978	244.326	387.392 #
34) L3 Aroclor-1232{4}	15.33	0.00	494433	0	802.494	N.D. #
Sum Aroclor-1232			1018587	129978	1776.657	387.392
Average Aroclor-1232					444.164	387.392
35) L4 Aroclor-1242{1}	9.08	0.00	98319	0	211.608	N.D. #
36) L4 Aroclor-1242{2}	10.61	0.00	244257	0	262.886	N.D. #
37) L4 Aroclor-1242{3}	12.62	14.35	181578	129978	112.036	204.983 #
38) L4 Aroclor-1242{4}	13.68	0.00	49156	0	106.410	N.D. #
39) L4 Aroclor-1242{5}	15.33	17.76	494433	102912	472.268	449.870
Sum Aroclor-1242			1067743	232890	1165.207	654.853
Average Aroclor-1242					233.041	327.426
40) L5 Aroclor-1248{1}	10.61	0.00	244257	0	520.605	N.D. #
41) L5 Aroclor-1248{2}	12.62	14.35	181578	129978	144.162	240.780 #

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

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0727.D\ECD1A.CH
Signal #2 : I:\CA0727.D\ECD2B.CH
Acq On : 14 Jul 97 19:38
Sample : 266323
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 9:50 1997 Quant Results File: CLP2_3.RES

Vial: 9
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
42) L5	Aroclor-1248{3}	15.33	17.76	494433	102912	422.780	310.631	#
43) L5	Aroclor-1248{4}	0.00	19.14	0	180340	N.D.	526.386	#
44) L5	Aroclor-1248{5}	0.00	21.00	0	60419	N.D.	149.640	#
Sum	Aroclor-1248			920268	473648	1087.547	1227.436	
Average	Aroclor-1248					362.516	306.859	
45) L6	Aroclor-1254{1}	17.26	19.92	1109394	385491	925.055	824.366	
46) L6	Aroclor-1254{2}	18.21	20.26	971212	478221	962.756	867.947	
47) L6	Aroclor-1254{3}	20.47	21.75	2097786	85452	1711.697	412.518	#
48) L6	Aroclor-1254{4}	21.24	23.11	1057609	745705	1749.548	836.757	#
49) L6	Aroclor-1254{5}	22.45	24.55	1433473	711775	2365.656	1833.371	
Sum	Aroclor-1254			6669474	2406643	7714.712	4774.960	
Average	Aroclor-1254					1542.942	954.992	
50) L7	Aroclor-1260{1}	20.47	23.11	2097786	745705	3158.745	1865.103	#
51) L7	Aroclor-1260{2}	21.24	24.08	1057609	491196	873.898	837.933	
52) L7	Aroclor-1260{3}	22.45	24.55	1433473	711775	1040.876	1047.436	
53) L7	Aroclor-1260{4}	26.01	0.00	814070	0	1045.100	N.D.	#
54) L7	Aroclor-1260{5}	0.00	29.88	0	317081	N.D.	265.450	#
Sum	Aroclor-1260			5402938	2265757	6118.619	4015.923	
Average	Aroclor-1260					1529.655	1003.981	
56) L8	Toxaphene{2}	19.50	0.00	734767	0	4500.923	N.D.	#
58) L8	Toxaphene{4}	0.00	32.41	0	210829	N.D.	1430.282	#
Sum	Toxaphene			734767	210829	4500.923	1430.282	
Average	Toxaphene					4500.923	1430.282	

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

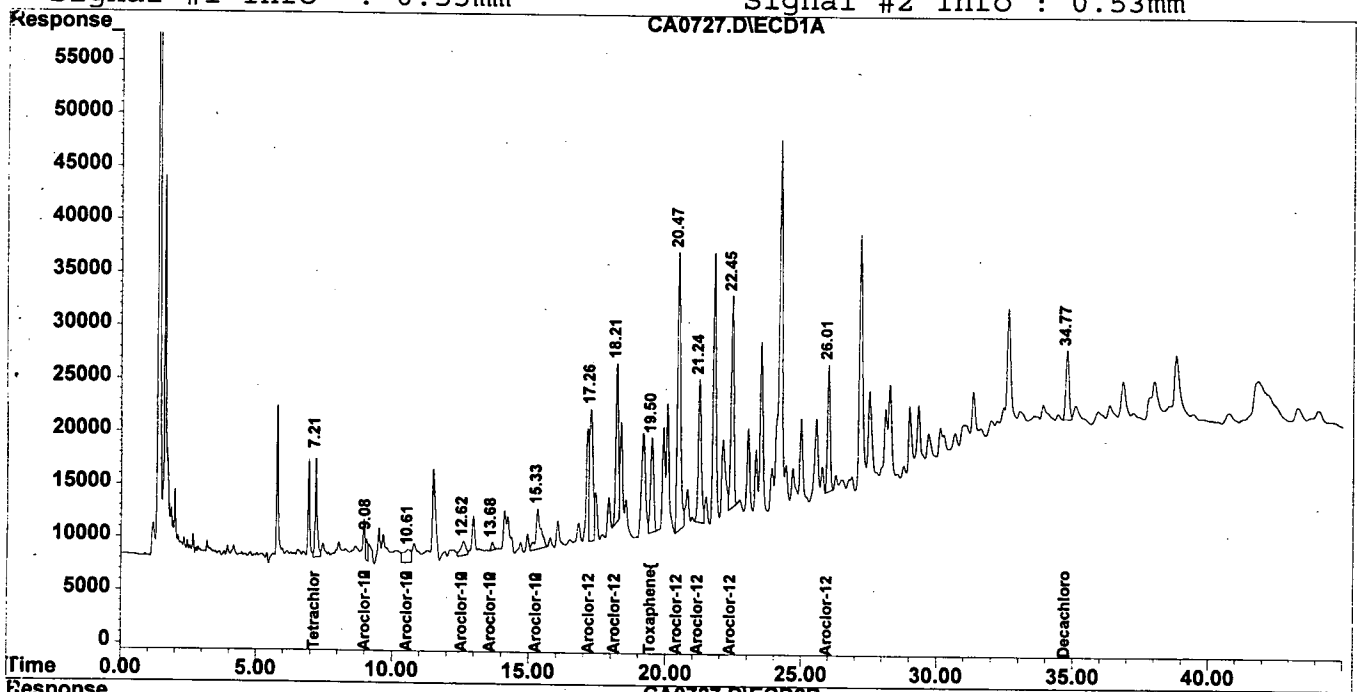
Quantitation Report

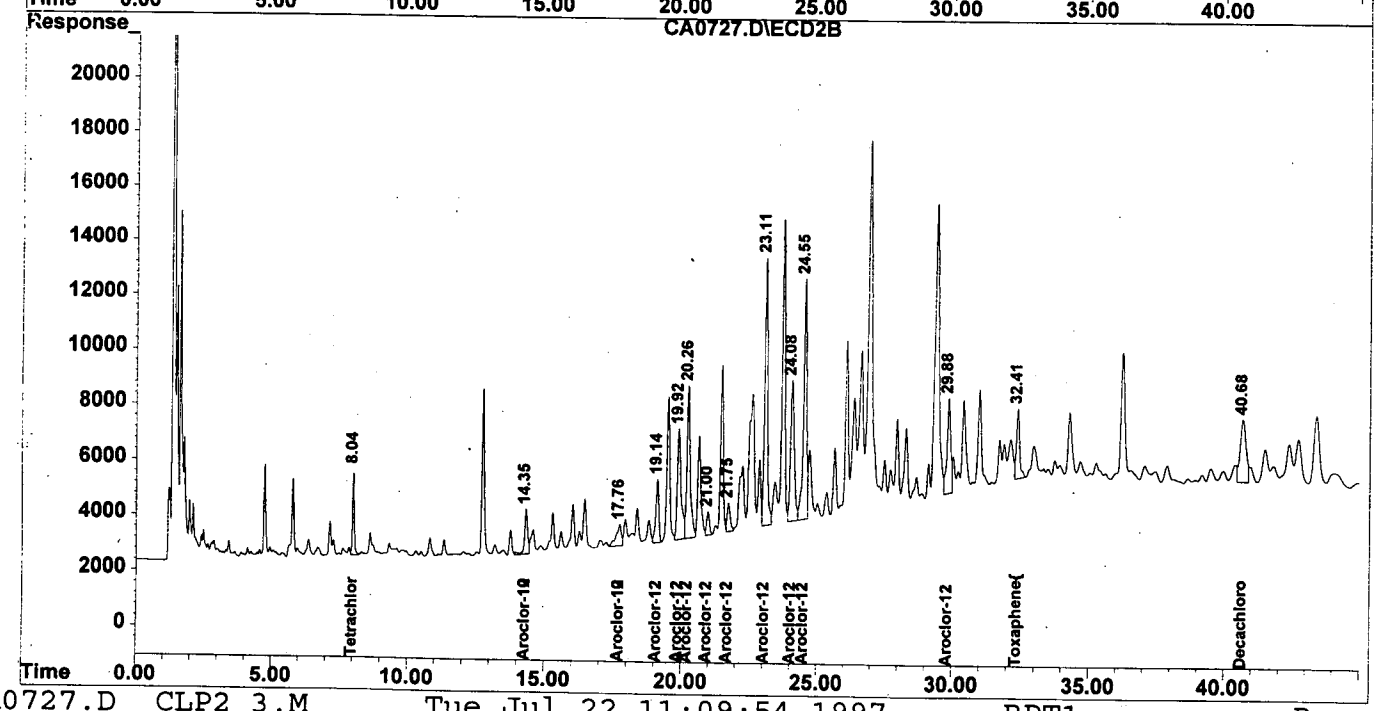
Signal #1 : I:\CA0727.D\ECD1A.CH
Signal #2 : I:\CA0727.D\ECD2B.CH
Acq On : 14 Jul 97 19:38
Sample : 266323
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 9:50 1997 Quant Results File: CLP2_3.RES

Vial: 9
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701
Signal #1 Info : 0.53mm
Signal #2 Phase: DB-608
Signal #2 Info : 0.53mm





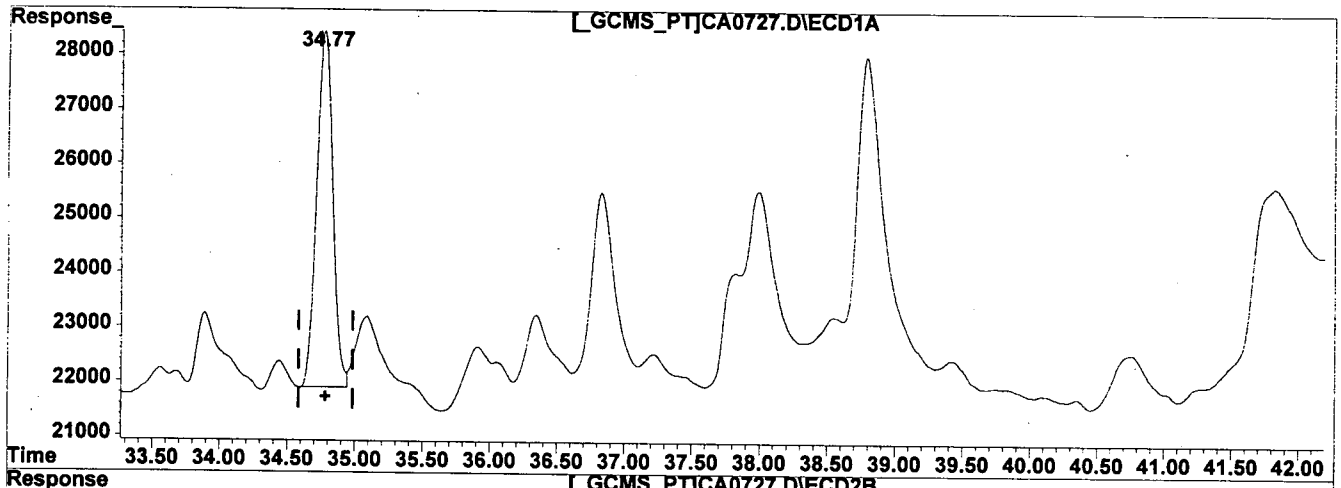
Quantitation Report

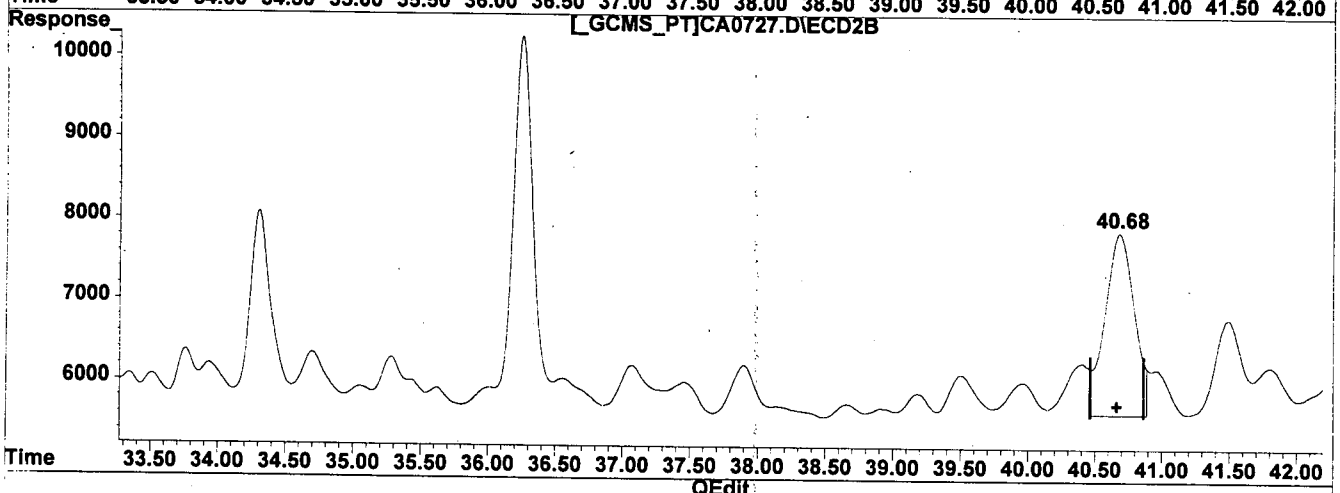
Signal #1 : I:\CA0727.D\ECD1A.CH
Signal #2 : I:\CA0727.D\ECD2B.CH
Acq On : 14 Jul 97 19:38
Sample : 266323
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 19:45 1997 Quant Results File: CLP2_3.RES

Vial: 9

Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

34.77min 21.801ng/ml m

response 542264

(22) Decachlorobiphenyl #2 (SA)

40.68min 33.274ng/ml m

response 347823

(+) = Expected Retention Time

CA0727.D CLP2_3.M Tue Jul 22 09:50:37 1997 RPT1

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE14

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266324

Sample wt/vol: 30.2 (g/mL) G Lab File ID: CA0731

% Moisture: 20. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/14/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan Sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	21.	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210.	U
12674-11-2	Aroclor-1016	42.	U
11104-28-2	Aroclor-1221	42.	U
11141-16-5	Aroclor-1232	42.	U
53469-21-9	Aroclor-1242	42.	U
12672-29-6	Aroclor-1248	42.	U
11097-69-1	Aroclor-1254	700.	J, ~~P~~
11096-82-5	Aroclor-1260	42.	U

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0731.D\ECD1A.CH
Signal #2 : I:\CA0731.D\ECD2B.CH
Acq On : 14 Jul 97 22:53
Sample : 266324
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:05 1997 Quant Results File: CLP2_3.RES

Vial: 13
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.22	8.04	589982	147882	29.159	21.097 #
Spiked Amount 20.000 Range 60 - 150 Recovery =					145.80%	105.49%
22) SA Decachlorobiphen	34.78	40.75	479719	468499	19.286m	44.818m#
Spiked Amount 20.000 Range 60 - 150 Recovery =					96.43%	224.09%#
Target Compounds						
23) L1 Aroclor-1016{1}	0.00	10.53	0	33720	N.D.	161.433 #
24) L1 Aroclor-1016{2}	10.59	12.55	74204	42561	61.760	98.751 #
25) L1 Aroclor-1016{3}	12.70	14.35	921374	128162	442.071	148.546 #
26) L1 Aroclor-1016{4}	13.69	0.00	870999	0	1346.961	N.D. #
27) L1 Aroclor-1016{5}	15.34	17.76	533233	130276	512.241	543.315
Sum Aroclor-1016			2399810	334720	2363.035	952.045
Average Aroclor-1016					590.759	238.011
28) L2 Aroclor-1221{1}	8.43	9.60	76835	230488	254.151	2208.376 #
29) L2 Aroclor-1221{2}	0.00	10.33	0	60118	N.D.	651.336 #
30) L2 Aroclor-1221{3}	0.00	10.53	0	33720	N.D.	127.660 #
Sum Aroclor-1221			76835	324327	254.151	2987.372
Average Aroclor-1221					254.151	995.791
31) L3 Aroclor-1232{1}	0.00	10.53	0	33720	N.D.	191.222 #
32) L3 Aroclor-1232{2}	10.59	12.55	74204	42561	165.324	230.861 #
33) L3 Aroclor-1232{3}	12.70	14.35	921374	128162	1239.772	381.981 #
34) L3 Aroclor-1232{4}	15.34	0.00	533233	0	865.470	N.D. #
Sum Aroclor-1232			1528811	204444	2270.566	804.064
Average Aroclor-1232					756.855	268.021
35) L4 Aroclor-1242{1}	0.00	10.53	0	33720	N.D.	212.711 #
36) L4 Aroclor-1242{2}	10.59	12.55	74204	42561	79.863	129.931 #
37) L4 Aroclor-1242{3}	12.70	14.35	921374	128162	568.498	202.120 #
38) L4 Aroclor-1242{4}	13.69	0.00	870999	0	1885.495	N.D. #
39) L4 Aroclor-1242{5}	15.34	17.76	533233	130276	509.329	569.490
Sum Aroclor-1242			2399810	334720	3043.186	1114.251
Average Aroclor-1242					760.797	278.563

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

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0731.D\ECD1A.CH
Signal #2 : I:\CA0731.D\ECD2B.CH
Acq On : 14 Jul 97 22:53
Sample : 266324
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:05 1997 Quant Results File: CLP2_3.RES

Vial: 13
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701
Signal #1 Info : 0.53mm
Signal #2 Phase: DB-608
Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
40) L5	Aroclor-1248{1}	10.59	12.55	74204	42561	158.157	282.913	#
41) L5	Aroclor-1248{2}	12.70	14.35	921374	128162	731.516	237.416	#
42) L5	Aroclor-1248{3}	15.34	17.76	533233	130276	455.957	393.227	
43) L5	Aroclor-1248{4}	0.00	19.15	0	290288	N.D.	847.308	#
44) L5	Aroclor-1248{5}	16.82	21.00	388367	116364	816.824	288.201	#
Sum	Aroclor-1248			1917178	707651	2162.454	2049.065	
Average	Aroclor-1248					540.614	409.813	
45) L6	Aroclor-1254{1}	17.27	19.92	1943092	665571	1620.225	1423.313	
46) L6	Aroclor-1254{2}	18.22	20.27	2056899	777204	2038.991	1410.586	#
47) L6	Aroclor-1254{3}	20.47	21.76	4903356	199852	4000.913	964.786	#
48) L6	Aroclor-1254{4}	21.25	23.12	2093334	1326959	3462.895	1488.984	#
49) L6	Aroclor-1254{5}	22.45	24.56	2627497	1221975	4336.149	3147.531	#
Sum	Aroclor-1254			13624179	4191561	15459.172	8435.201	
Average	Aroclor-1254					3091.834	1687.040	
50) L7	Aroclor-1260{1}	20.47	23.12	4903356	1326959	7383.238	3318.892	#
51) L7	Aroclor-1260{2}	21.25	24.09	2093334	816526	1729.714	1392.913	
52) L7	Aroclor-1260{3}	22.45	24.56	2627497	1221975	1907.882	1798.238	
53) L7	Aroclor-1260{4}	26.01	0.00	1692200	0	2172.440	N.D.	#
54) L7	Aroclor-1260{5}	0.00	29.89	0	622375	N.D.	521.034	#
Sum	Aroclor-1260			11316388	3987835	13193.274	7031.077	
Average	Aroclor-1260					3298.319	1757.769	
56) L8	Toxaphene{2}	19.50	0.00	1822457	0	11163.731	N.D.	#
58) L8	Toxaphene{4}	0.00	32.41	0	514560	N.D.	3490.814	#
Sum	Toxaphene			1822457	514560	11163.731	3490.814	
Average	Toxaphene					11163.731	3490.814	

7/22/13

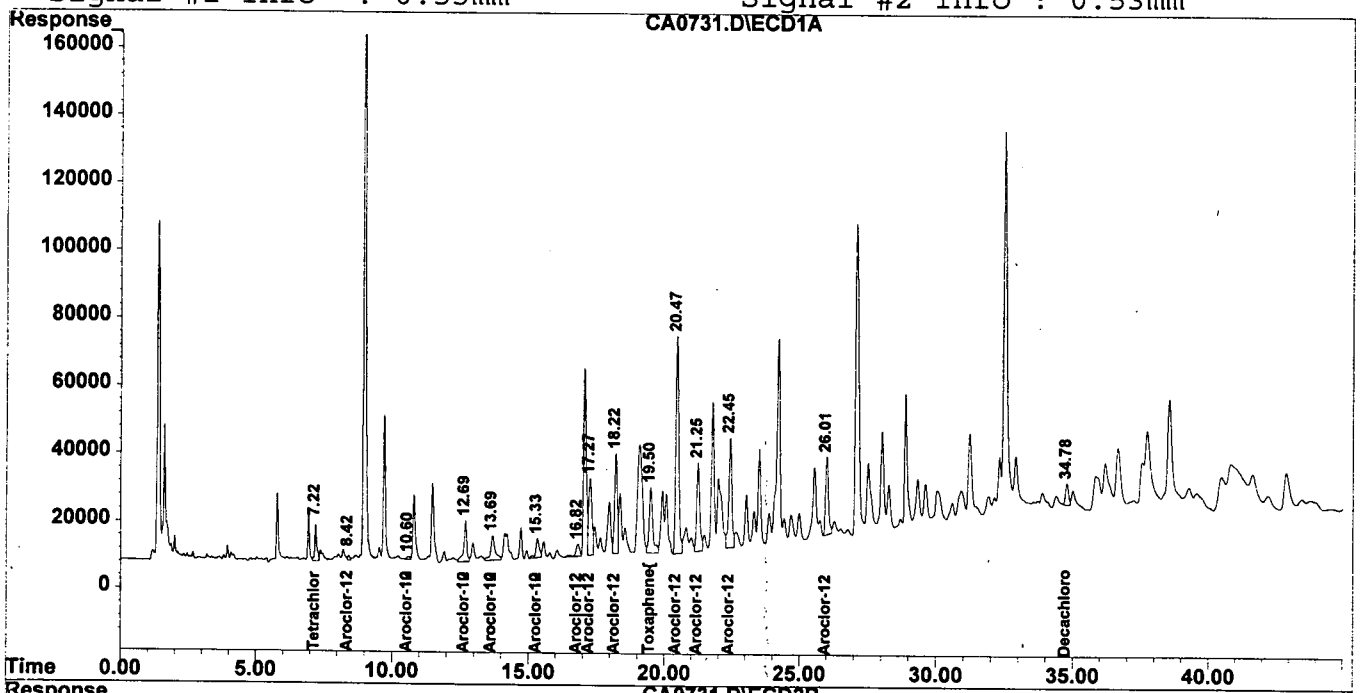
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

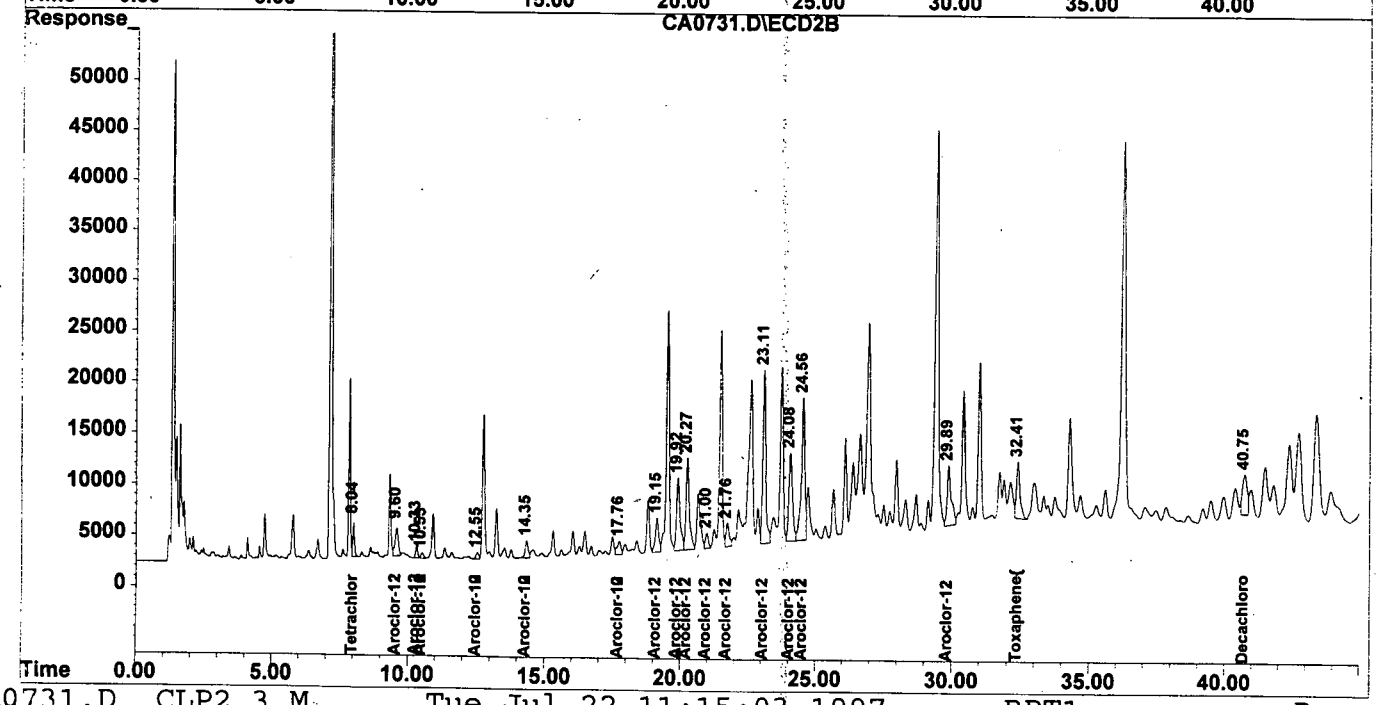
Quantitation Report

Signal #1 : I:\CA0731.D\ECD1A.CH Vial: 13
Signal #2 : I:\CA0731.D\ECD2B.CH
Acq On : 14 Jul 97 22:53 Operator:
Sample : 266324 Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:05 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm





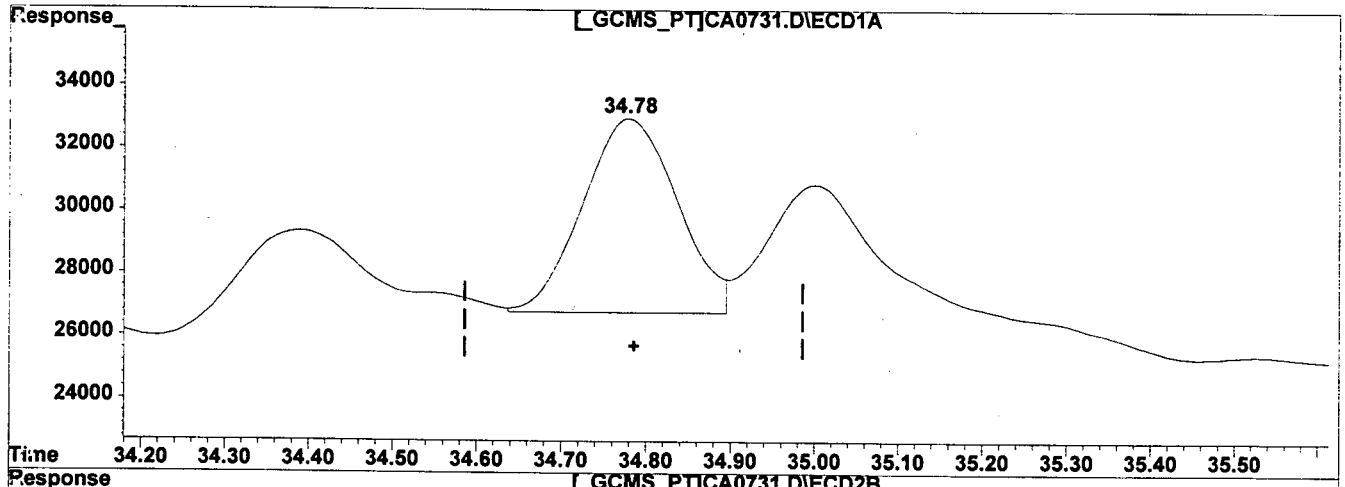
Quantitation Report

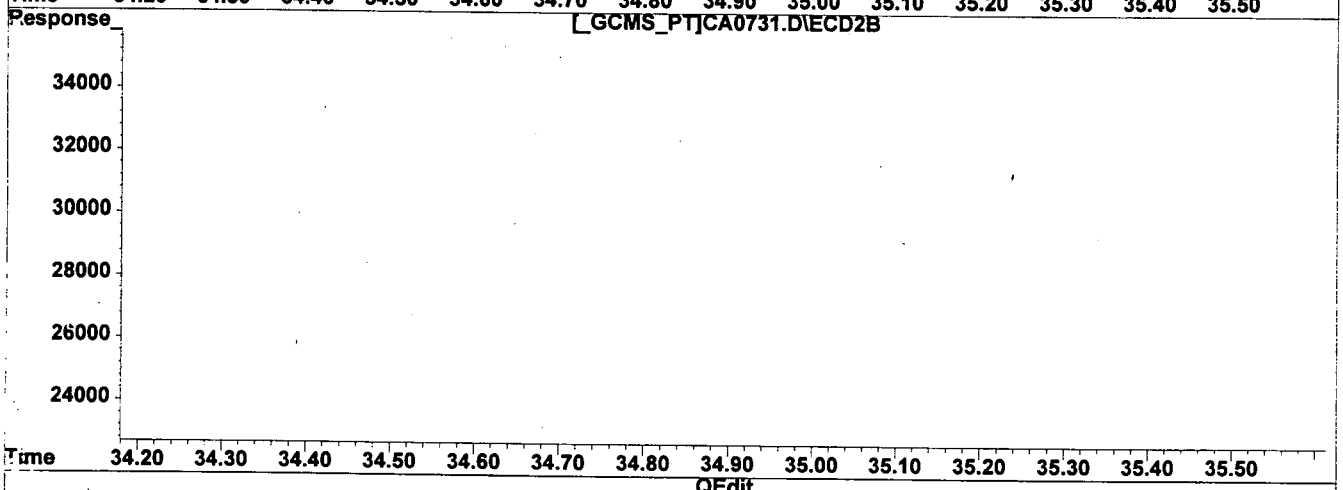
Signal #1 : I:\CA0731.D\ECD1A.CH
Signal #2 : I:\CA0731.D\ECD2B.CH
Acq On : 14 Jul 97 22:53
Sample : 266324
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 19:50 1997 Quant Results File: CLP2_3.RES

Vial: 13

Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

34.78min 19.286ng/ml m

response 479719

(22) Decachlorobiphenyl #2 (SA)

40.75min 44.818ng/ml m

response 468499

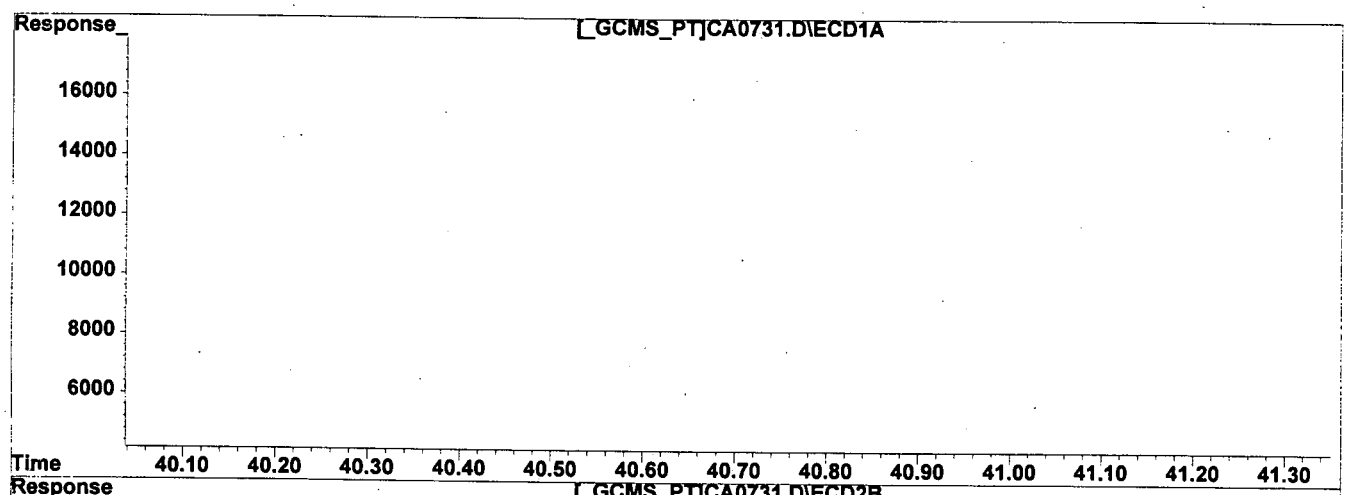
(+) = Expected Retention Time

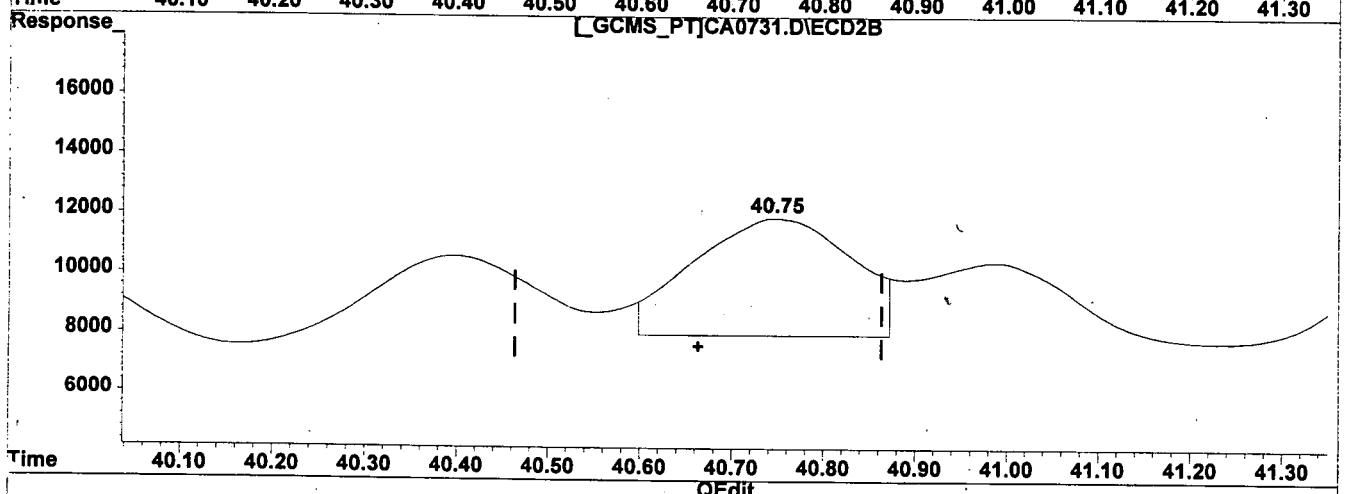
Quantitation Report

Signal #1 : I:\CA0731.D\ECD1A.CH
Signal #2 : I:\CA0731.D\ECD2B.CH
Acq On : 14 Jul 97 22:53
Sample : 266324
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 19:50 1997 Quant Results File: CLP2_3.RES

Vial: 13
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





(22) Decachlorobiphenyl (SA)

34.78min 19.286ng/ml m

response 479719

(22) Decachlorobiphenyl #2 (SA)

40.75min 44.818ng/ml m

response 468499

(+) = Expected Retention Time

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE15

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266325

Sample wt/vol: 30.0 (g/mL) G Lab File ID: CA0728

% Moisture: 9. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/14/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.7	U
72-55-9	4,4'-DDE	3.7	U
72-20-8	Endrin	3.7	U
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	3.7	U
1031-07-8	Endosulfan Sulfate	3.7	U
50-29-3	4,4'-DDT	3.7	U
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.7	U
7421-93-4	Endrin aldehyde	3.7	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	37.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	2000 ~~1300~~.	P
11096-82-5	Aroclor-1260	37.	U

* Data Transferred

Use this Data

From 10x diluted Analysis

FORM I PEST OLM03.0

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0728.D\ECD1A.CH Vial: 10
Signal #2 : I:\CA0728.D\ECD2B.CH
Acq On : 14 Jul 97 20:27 Operator:
Sample : 266325 Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 9:53 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
System Monitoring Compounds							
1) SA Tetrachloro-m-xy	7.21	8.04	472812	168335	23.368m	24.015	
Spiked Amount 20.000 Range 60 - 150 Recovery =					116.84%	120.08%	
22) SA Decachlorobiphen	34.77	40.67	617392	226563	24.821	21.674	
Spiked Amount 20.000 Range 60 - 150 Recovery =					124.11%	108.37%	
Target Compounds							
23) L1 Aroclor-1016{1}	9.17	10.52	300538	15098	463.622	72.283	#
24) L1 Aroclor-1016{2}	10.55	12.55	66959	30283	55.731	70.263	#
25) L1 Aroclor-1016{3}	12.61	14.35	537826	359856	258.047	417.089	#
26) L1 Aroclor-1016{4}	13.68	15.20	260601	51135	403.008	190.546	#
27) L1 Aroclor-1016{5}	15.33	17.76	1378842	293141	1324.561	1222.543	
Sum Aroclor-1016			2544767	749514	2504.969	1972.723	
Average Aroclor-1016					500.994	394.545	
28) L2 Aroclor-1221{1}	8.33	0.00	121300	0	401.230	N.D.	#
30) L2 Aroclor-1221{3}	9.17	10.52	300538	15098	328.331	57.161	#
Sum Aroclor-1221			421838	15098	729.562	57.161	
Average Aroclor-1221					364.781	57.161	
31) L3 Aroclor-1232{1}	9.17	10.52	300538	15098	567.460	85.621	#
32) L3 Aroclor-1232{2}	10.55	12.55	66959	30283	149.183	164.262	
33) L3 Aroclor-1232{3}	12.61	14.35	537826	359856	723.682	1072.532	#
34) L3 Aroclor-1232{4}	15.33	15.20	1378842	51135	2237.944	592.387	#
Sum Aroclor-1232			2284166	456372	3678.269	1914.802	
Average Aroclor-1232					919.567	478.700	
35) L4 Aroclor-1242{1}	9.17	10.52	300538	15098	646.837	95.243	#
36) L4 Aroclor-1242{2}	10.55	12.55	66959	30283	72.066	92.448	#
37) L4 Aroclor-1242{3}	12.61	14.35	537826	359856	331.845	567.515	#
38) L4 Aroclor-1242{4}	13.68	15.20	260601	51135	564.137	292.503	#
39) L4 Aroclor-1242{5}	15.33	17.76	1378842	293141	1317.030	1281.439	
Sum Aroclor-1242			2544767	749514	2931.915	2329.148	
Average Aroclor-1242					586.383	465.830	
40) L5 Aroclor-1248{1}	10.55	12.55	66959	30283	142.716	201.298	#

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

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0728.D\ECD1A.CH
Signal #2 : I:\CA0728.D\ECD2B.CH
Acq On : 14 Jul 97 20:27
Sample : 266325
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 9:53 1997 Quant Results File: CLP2_3.RES

Vial: 10
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
41) L5	Aroclor-1248{2}	12.61	14.35	537826	359856	427.002	666.622 #
42) L5	Aroclor-1248{3}	15.33	17.76	1378842	293141	1179.021	884.821
43) L5	Aroclor-1248{4}	15.79	19.14	306825	697975	407.124	2037.289 #
44) L5	Aroclor-1248{5}	16.83	21.00	749233	344750	1575.806	853.850 #
Sum	Aroclor-1248			3039685	1726006	3731.669	4643.880
Average	Aroclor-1248					746.334	928.776
45) L6	Aroclor-1254{1}	17.28	19.92	4863165	1621798	4055.094	3468.190
46) L6	Aroclor-1254{2}	18.21	20.26	4035906	1546456	4000.767	2806.742 #
47) L6	Aroclor-1254{3}	20.47	21.75	7329409	359558	5980.461	1735.763 #
48) L6	Aroclor-1254{4}	21.24	23.11	4442469	2537793	7348.947	2847.662 #
49) L6	Aroclor-1254{5}	22.45	24.55	6051558	2449916	9986.866	6310.432 #
Sum	Aroclor-1254			26722508	8515521	31372.135	17168.789
Average	Aroclor-1254					6274.427	3433.758
50) L7	Aroclor-1260{1}	20.47	23.11	7329409	2537793	11036.273	6347.338 #
51) L7	Aroclor-1260{2}	21.24	24.08	4442469	1524724	3670.795	2601.030 #
52) L7	Aroclor-1260{3}	22.45	24.55	6051558	2449916	4394.166	3605.257
53) L7	Aroclor-1260{4}	26.01	0.00	4039483	0	5185.872	N.D. #
54) L7	Aroclor-1260{5}	0.00	29.88	0	939989	N.D.	786.931 #
Sum	Aroclor-1260			21862920	7452422	24287.106	13340.557
Average	Aroclor-1260					6071.776	3335.139
56) L8	Toxaphene{2}	19.51	0.00	3547315	0	21729.609	N.D. #
58) L8	Toxaphene{4}	0.00	32.41	0	664897	N.D.	4510.712 #
Sum	Toxaphene			3547315	664897	21729.609	4510.712
Average	Toxaphene					21729.609	4510.712

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

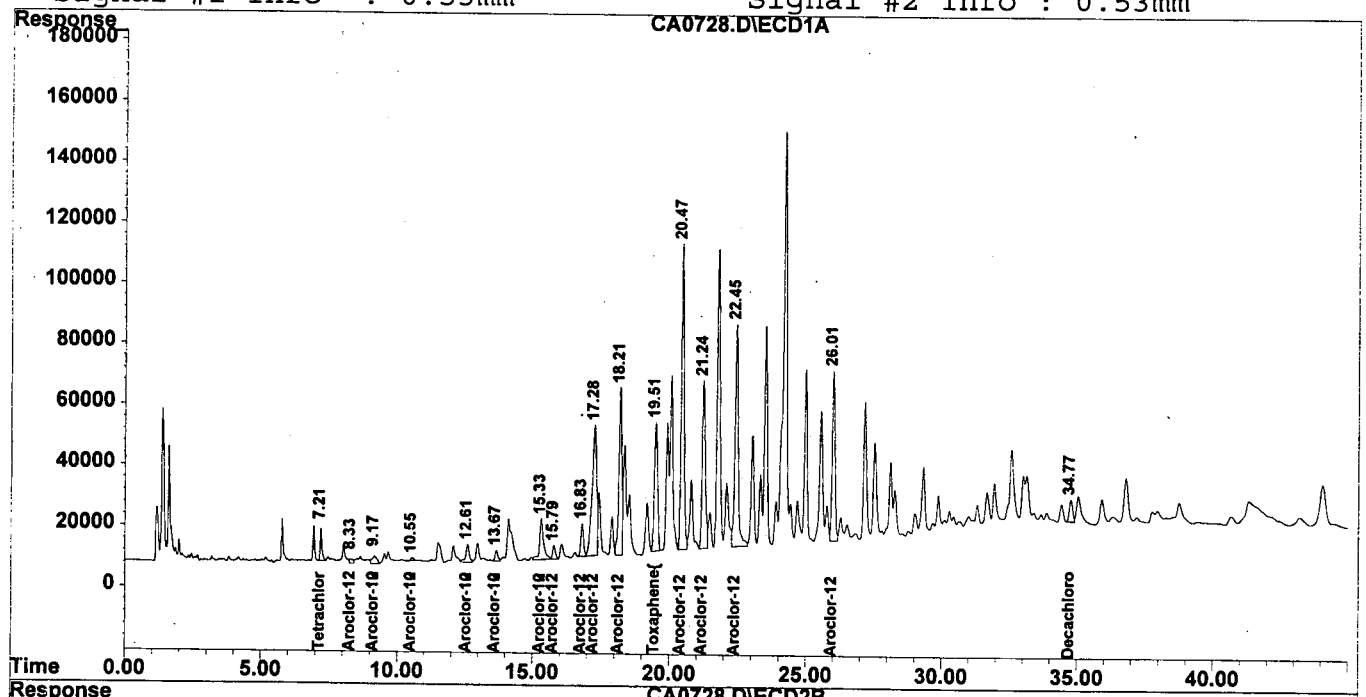
Quantitation Report

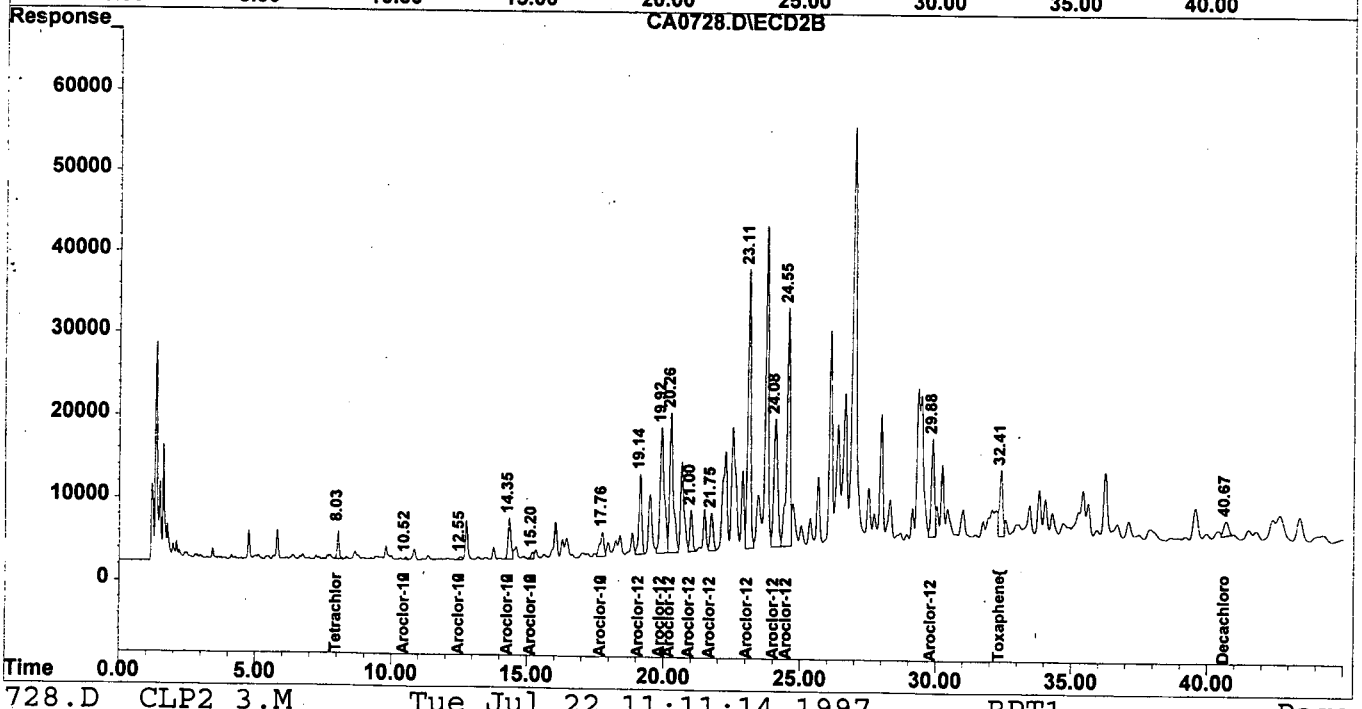
Signal #1 : I:\CA0728.D\ECD1A.CH
Signal #2 : I:\CA0728.D\ECD2B.CH
Acq On : 14 Jul 97 20:27
Sample : 266325
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 9:53 1997 Quant Results File: CLP2_3.RES

Vial: 10
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701
Signal #1 Info : 0.53mm
Signal #2 Phase: DB-608
Signal #2 Info : 0.53mm



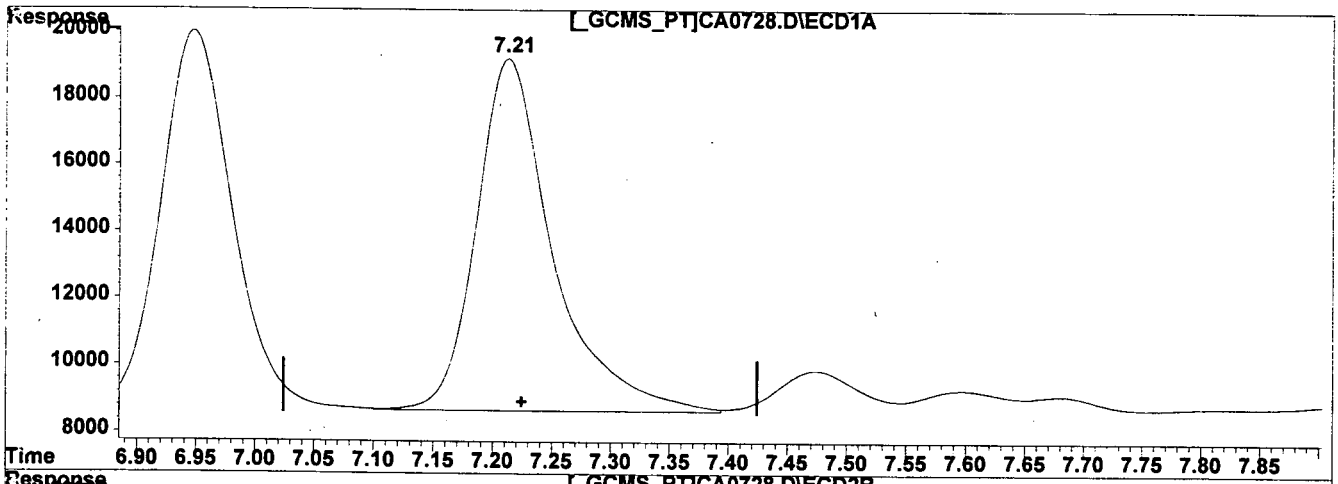


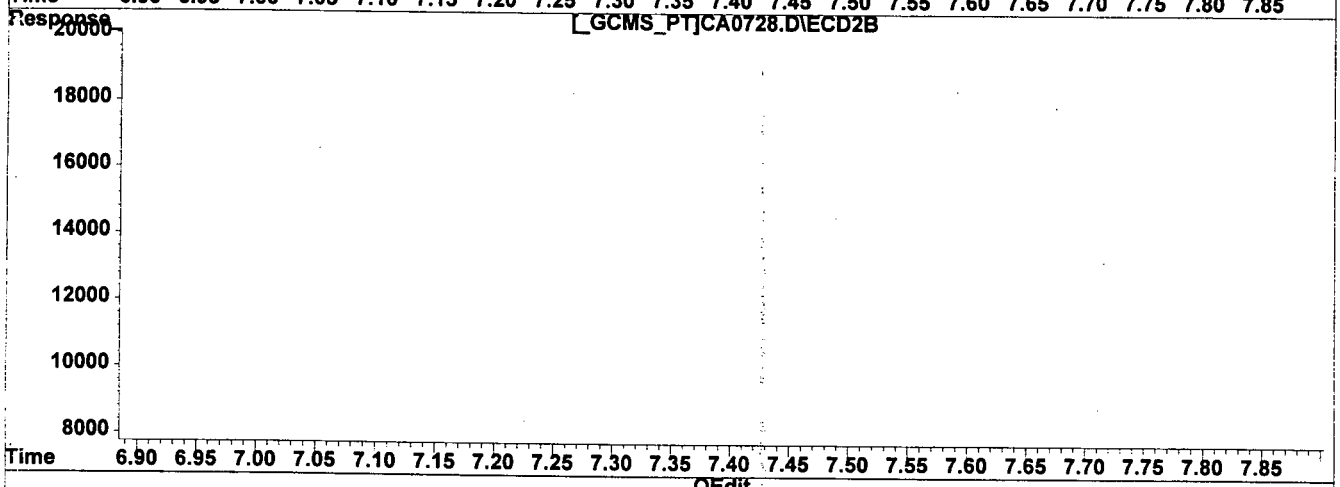
Quantitation Report

Signal #1 : I:\CA0728.D\ECD1A.CH
Signal #2 : I:\CA0728.D\ECD2B.CH
Acq On : 14 Jul 97 20:27
Sample : 266325
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 19:46 1997 Quant Results File: CLP2_3.RES

Vial: 10
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(1) Tetrachloro-m-xylene (SA)

7.21min 23.368ng/ml m

response 472812

(1) Tetrachloro-m-xylene #2 (SA)

8.04min 24.015ng/ml

response 168335

(+) = Expected Retention Time

CA0728.D CLP2_3.M Tue Jul 22 09:53:23 1997 RPT1

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE15 DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266325

Sample wt/vol: 30.0 (g/mL) G Lab File ID: CA0749

% Moisture: 9. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/15/97

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	18.	U
319-85-7	beta-BHC	18.	U
319-86-8	delta-BHC	18.	U
58-89-9	gamma-BHC (Lindane)	18.	U
76-44-8	Heptachlor	18.	U
309-00-2	Aldrin	18.	U
1024-57-3	Heptachlor epoxide	18.	U
959-98-8	Endosulfan I	18.	U
60-57-1	Dieldrin	37.	U
72-55-9	4,4'-DDE	37.	U
72-20-8	Endrin	37.	U
33213-65-9	Endosulfan II	37.	U
72-54-8	4,4'-DDD	37.	U
1031-07-8	Endosulfan Sulfate	37.	U
50-29-3	4,4'-DDT	37.	U
72-43-5	Methoxychlor	180.	U
53494-70-5	Endrin ketone	37.	U
7421-93-4	Endrin aldehyde	37.	U
5103-71-9	alpha-Chlordane	18.	U
5103-74-2	gamma-Chlordane	18.	U
8001-35-2	Toxaphene	1800.	U
12674-11-2	Aroclor-1016	370.	U
11104-28-2	Aroclor-1221	370.	U
11141-16-5	Aroclor-1232	370.	U
53469-21-9	Aroclor-1242	370.	U
12672-29-6	Aroclor-1248	370.	U
11097-69-1	Aroclor-1254	2000.	DP
11096-82-5	Aroclor-1260	370.	U

Do Not Use This Data

FORM I PEST

OLM03.0

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0749.D\ECD1A.CH Vial: 8
Signal #2 : I:\CA0749.D\ECD2B.CH
Acq On : 15 Jul 97 17:52 Operator:
Sample : 266325 10X Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:58 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachloro-m-xy	7.23	8.05	47536	18089	2.349	2.581	
	Spiked Amount 20.000 Range 60 - 150 Recovery =					11.75%#	12.91%#	
22)	SA Decachlorobiphen	34.81	40.69	63394	37831	2.549m	3.619m#	
	Spiked Amount 20.000 Range 60 - 150 Recovery =					12.75%#	18.10%#	
	Target Compounds							
25)	L1 Aroclor-1016{3}	12.65	14.38	37747	26722	18.111	30.972	#
27)	L1 Aroclor-1016{5}	0.00	17.78	0	47496	N.D.	198.081	#
	Sum Aroclor-1016			37747	74217	18.111	229.052	
	Average Aroclor-1016					18.111	114.526	
	Sum Aroclor-1221			0	0	N.D.	N.D.	
	Average Aroclor-1221					0.000	0.000	
1[illegible])	L3 Aroclor-1232{3}	12.65	14.38	37747	26722	50.791	79.643	#
	Sum Aroclor-1232			37747	26722	50.791	79.643	
	Average Aroclor-1232					50.791	79.643	
1[illegible])	L4 Aroclor-1242{3}	12.65	14.38	37747	26722	23.290	42.142	#
39)	L4 Aroclor-1242{5}	0.00	17.78	0	47496	N.D.	207.623	#
	Sum Aroclor-1242			37747	74217	23.290	249.765	
	Average Aroclor-1242					23.290	124.882	
41)	L5 Aroclor-1248{2}	12.65	14.38	37747	26722	29.969	49.501	#
4[illegible])	L5 Aroclor-1248{3}	0.00	17.78	0	47496	N.D.	143.362	#
4[illegible])	L5 Aroclor-1248{4}	0.00	19.17	0	108773	N.D.	317.492	#
44)	L5 Aroclor-1248{5}	0.00	21.02	0	48324	N.D.	119.686	#
	Sum Aroclor-1248			37747	231315	29.969	630.041	
	Average Aroclor-1248					29.969	157.510	
45)	L6 Aroclor-1254{1}	17.32	19.94	560904	224773	467.703m	480.673	
4[illegible])	L6 Aroclor-1254{2}	18.24	20.28	444972	253628	441.097	460.322	
4[illegible])	L6 Aroclor-1254{3}	20.49	21.78	859835	57447	701.585	277.327	#
48)	L6 Aroclor-1254{4}	21.27	23.13	454320	392292	751.557	440.192	#
4[illegible])	L6 Aroclor-1254{5}	22.48	24.58	723145	428311	1193.404	1103.232	

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

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0749.D\ECD1A.CH Vial: 8
Signal #2 : I:\CA0749.D\ECD2B.CH
Acq On : 15 Jul 97 17:52 Operator:
Sample : 266325 10X Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:58 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
Sum	Aroclor-1254			3043175	1356450	3555.347	2761.745	
Average	Aroclor-1254					711.069	552.349	
50) L7	Aroclor-1260{1}	20.49	23.13	859835	392292	1294.698	981.172	
51) L7	Aroclor-1260{2}	21.27	24.10	454320	248394	375.402	423.736	
52) L7	Aroclor-1260{3}	22.48	24.58	723145	428311	525.091	630.295	
53) L7	Aroclor-1260{4}	26.04	0.00	387381	0	497.318	N.D.	#
54) L7	Aroclor-1260{5}	0.00	29.91	0	120637	N.D.	100.994	#
Sum	Aroclor-1260			2424680	1189634	2692.509	2136.196	
Average	Aroclor-1260					673.127	534.049	
Sum	Toxaphene			0	0	N.D.	N.D.	
Average	Toxaphene					0.000	0.000	

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

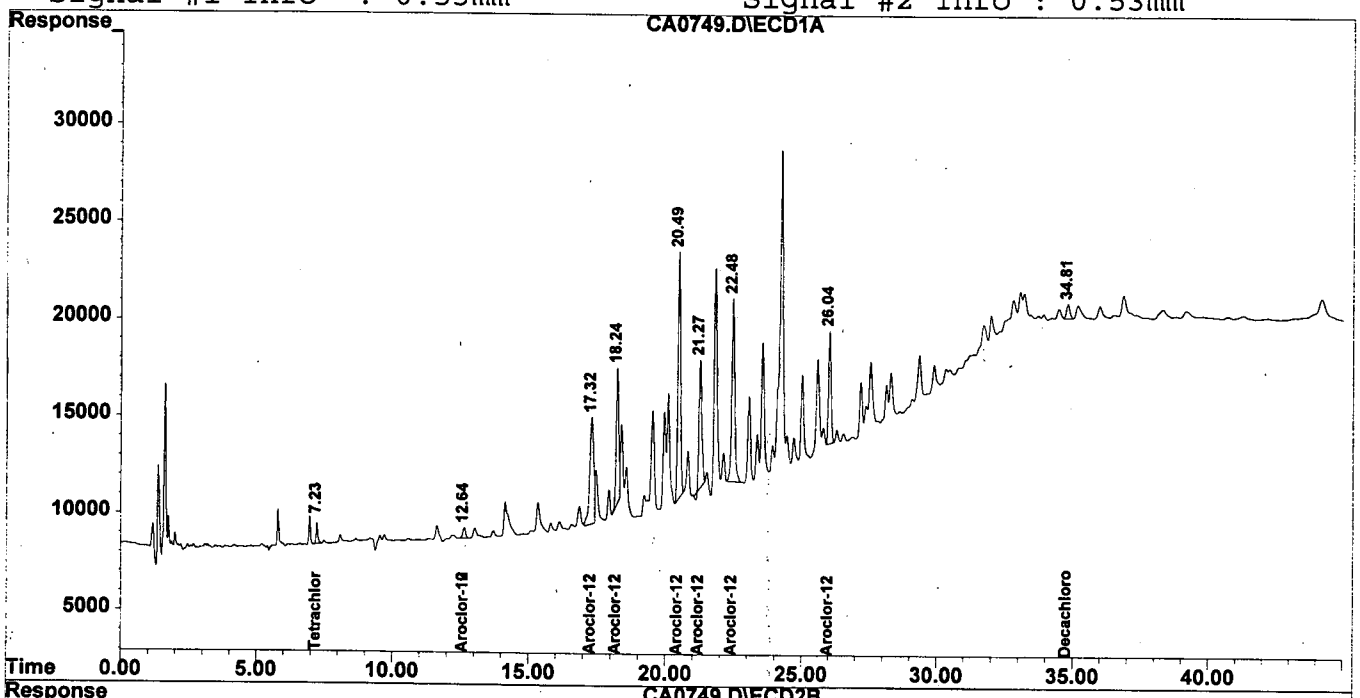
Quantitation Report

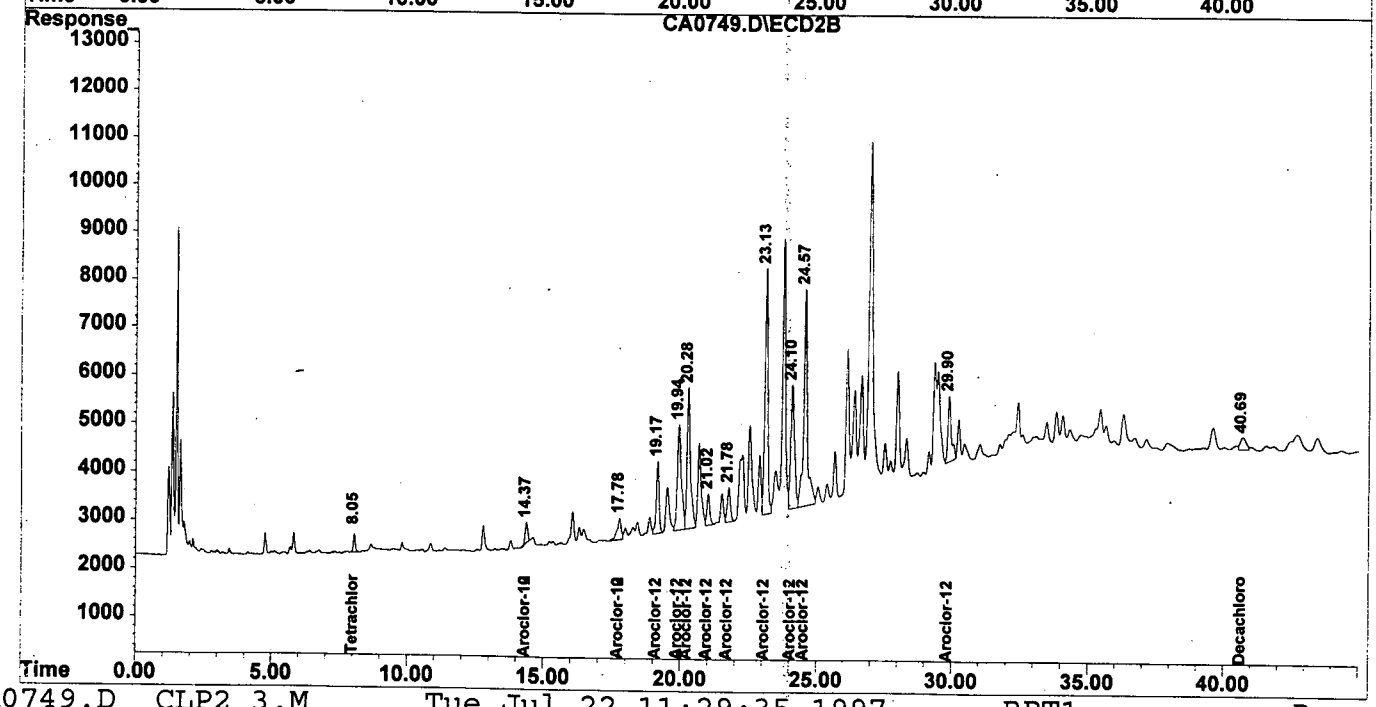
Signal #1 : I:\CA0749.D\ECD1A.CH
Signal #2 : I:\CA0749.D\ECD2B.CH
Acq On : 15 Jul 97 17:52
Sample : 266325 10X
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:58 1997 Quant Results File: CLP2_3.RES

Vial: 8
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701
Signal #1 Info : 0.53mm
Signal #2 Phase: DB-608
Signal #2 Info : 0.53mm



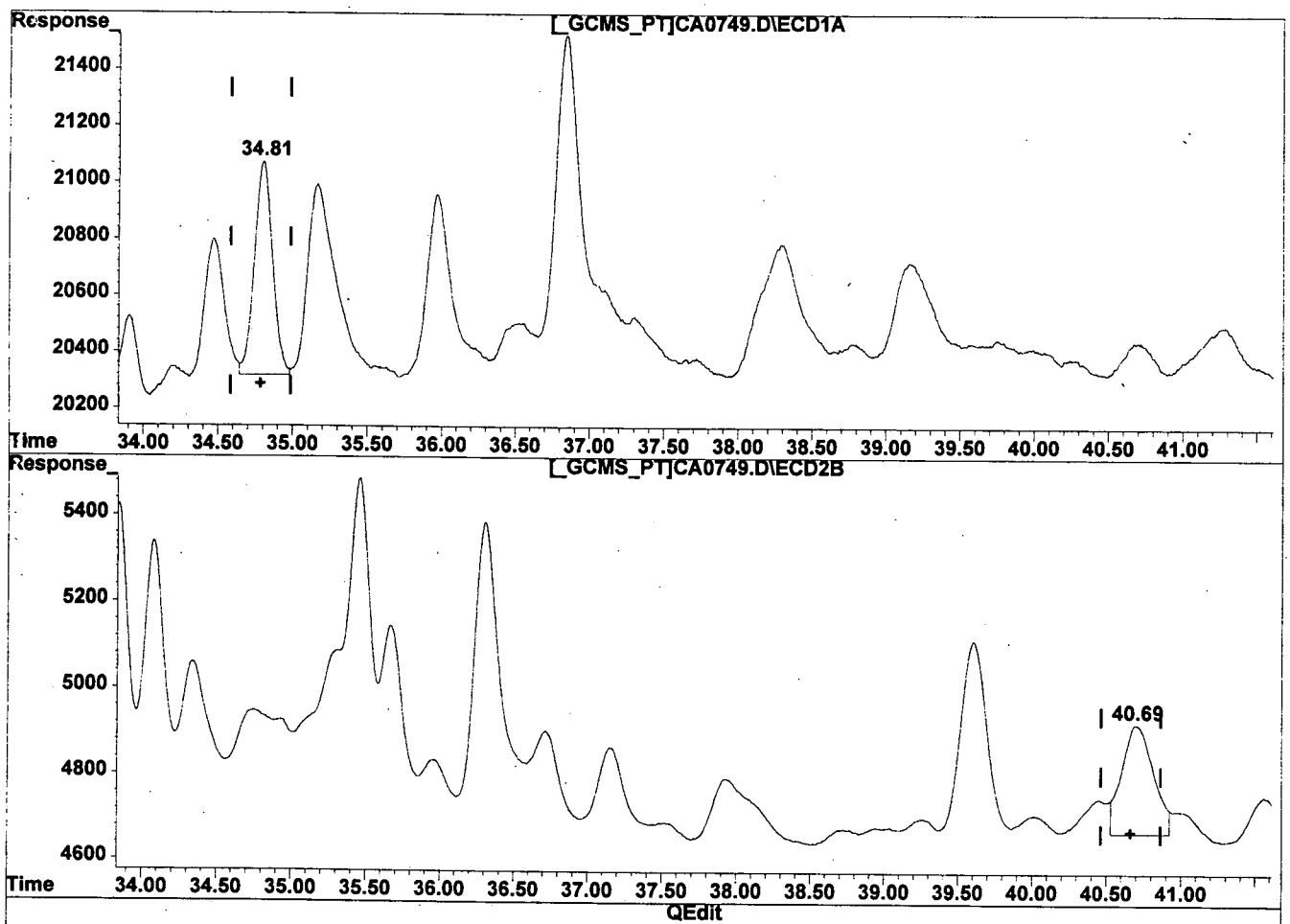


Quantitation Report

Signal #1 : I:\CA0749.D\ECD1A.CH
Signal #2 : I:\CA0749.D\ECD2B.CH
Acq On : 15 Jul 97 17:52
Sample : 266325 10X
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 20:03 1997 Quant Results File: CLP2_3.RES

Vial: 8
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration



(22) Decachlorobiphenyl (SA)

34.81min 2.549ng/ml m

response 63394

(22) Decachlorobiphenyl #2 (SA)

40.69min 3.619ng/ml m

response 37831

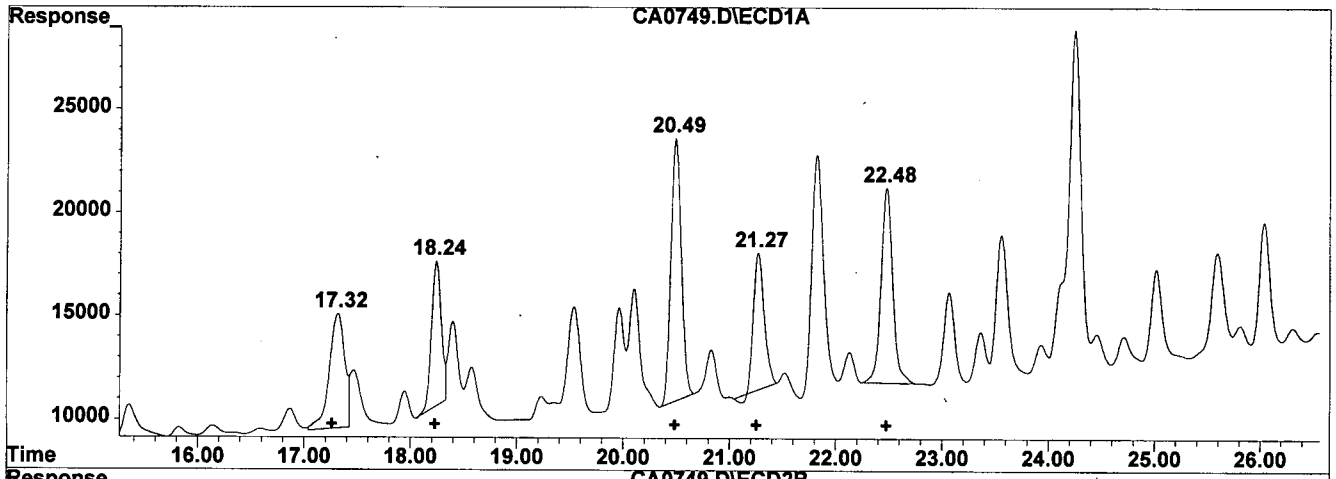
(+) = Expected Retention Time

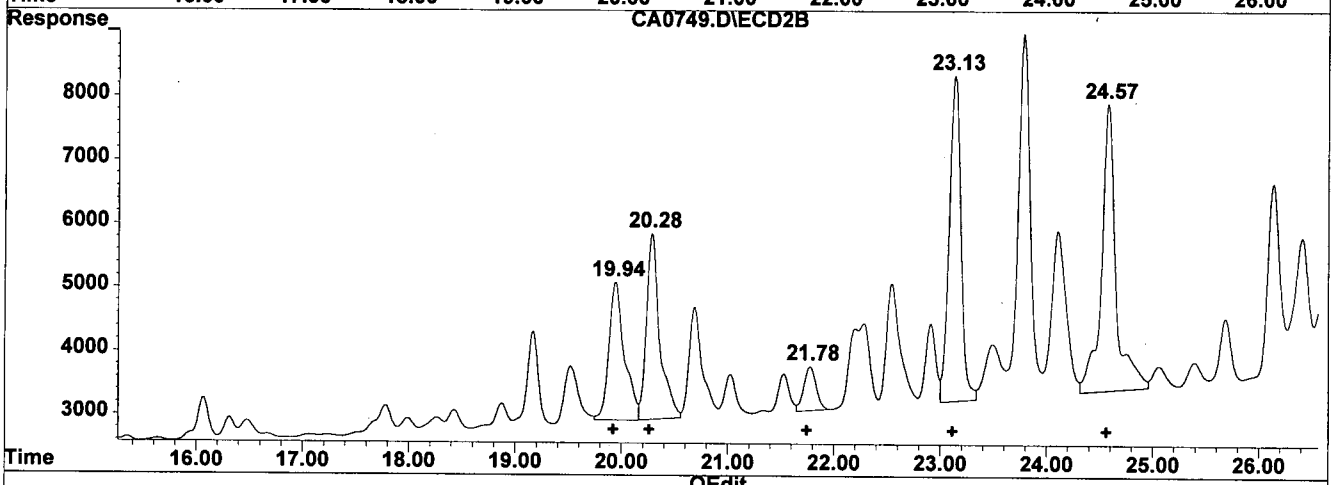
CA0749.D CLP2_3.M Tue Jul 22 10:58:36 1997 RPT1

Quantitation Report

Signal #1 : C:\DATA_03\CA0749.D\ECD1A.CH Vial: 8
Signal #2 : C:\DATA_03\CA0749.D\ECD2B.CH
Acq On : 15 Jul 97 17:52 Operator:
Sample : 266325 10X Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:58 1997 Quant Results File: CLP2_3.RES

Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(45) Aroclor-1254{1} (L6)

R.T.	Response	Conc
17.32	560904	467.70
18.24	444972	441.10
20.49	859835	701.59
21.27	454320	751.56
22.48	723145	1193.40

(45) Aroclor-1254{1} #2 (L6)

R.T.	Response	Conc
19.94	224773	480.67
20.28	253628	460.32
21.78	57447	277.33
23.13	392292	440.19
24.58	428311	1103.23

(+) = Expected Retention Time

CA0749.D CLP2_3.M Wed Jul 23 11:36:24 1997 GC

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE16

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266326

Sample wt/vol: 30.2 (g/mL) G Lab File ID: CA0725

% Moisture: 9. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/14/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan Sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	36.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	170.	.
11096-82-5	Aroclor-1260	36.	U

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0725.D\ECD1A.CH
Signal #2 : I:\CA0725.D\ECD2B.CH
Acq On : 14 Jul 97 18:01
Sample : 266326
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 9:44 1997 Quant Results File: CLP2_3.RES

Vial: 7
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.22	8.04	426561	147899	21.082	21.100
Spiked Amount 20.000 Range 60 - 150 Recovery =					105.41%	105.50%
22) SA Decachlorobiphen	34.78	40.66	470655	253991	18.922	24.298 #
Spiked Amount 20.000 Range 60 - 150 Recovery =					94.61%	121.49%
Target Compounds						
23) L1 Aroclor-1016{1}	9.08	10.59	3286806	41917	5070.353	200.677 #
25) L1 Aroclor-1016{3}	12.59	14.36	184981	47937	88.753	55.562 #
26) L1 Aroclor-1016{4}	13.66	0.00	84120	0	130.087	N.D. #
27) L1 Aroclor-1016{5}	15.36	0.00	207705	0	199.529	N.D. #
Sum Aroclor-1016			3763611	89855	5488.722	256.239
Average Aroclor-1016					1372.180	128.119
					ND	ND
28) L2 Aroclor-1221{1}	0.00	9.64	0	37546	N.D.	359.742 #
30) L2 Aroclor-1221{3}	9.08	10.59	3286806	41917	3590.764	158.694 #
Sum Aroclor-1221			3286806	79464	3590.764	518.436
Average Aroclor-1221					3590.764	259.218
					ND	ND
31) L3 Aroclor-1232{1}	9.08	10.59	3286806	41917	6205.970	237.708 #
33) L3 Aroclor-1232{3}	12.59	14.36	184981	47937	248.904	142.875 #
34) L3 Aroclor-1232{4}	15.36	0.00	207705	0	337.118	N.D. #
Sum Aroclor-1232			3679492	89855	6791.992	380.583
Average Aroclor-1232					2263.997	190.291
					ND	ND
36) L4 Aroclor-1242{1}	9.08	10.59	3286806	41917	7074.068	264.420 #
37) L4 Aroclor-1242{3}	12.59	14.36	184981	47937	114.135	75.600 #
38) L4 Aroclor-1242{4}	13.66	0.00	84120	0	182.098	N.D. #
39) L4 Aroclor-1242{5}	15.36	0.00	207705	0	198.394	N.D. #
Sum Aroclor-1242			3763611	89855	7568.695	340.020
Average Aroclor-1242					1892.174	170.010
					ND	ND
41) L5 Aroclor-1248{2}	12.59	14.36	184981	47937	146.864	88.802 #
42) L5 Aroclor-1248{3}	15.36	0.00	207705	0	177.605	N.D. #
43) L5 Aroclor-1248{4}	0.00	19.14	0	44430	N.D.	129.683 #
44) L5 Aroclor-1248{5}	0.00	21.00	0	36954	N.D.	91.525 #
					ND	ND

7/22/97

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

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0725.D\ECD1A.CH
Signal #2 : I:\CA0725.D\ECD2B.CH
Acq On : 14 Jul 97 18:01
Sample : 266326
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 9:44 1997 Quant Results File: CLP2_3.RES

Vial: 7

Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701
Signal #1 Info : 0.53mm
Signal #2 Phase: DB-608
Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
Sum	Aroclor-1248			392686	129321	324.468	310.011
Average	Aroclor-1248					162.234	103.337
45) L6	Aroclor-1254{1}	17.24	19.92	520664	377784	434.150m	807.886 #
46) L6	Aroclor-1254{2}	18.22	20.27	210466	126110	208.634m	228.883
47) L6	Aroclor-1254{3}	20.47	21.85f	483359	50402	394.399	243.315m#
48) L6	Aroclor-1254{4}	21.24	23.11	470746	246700	778.731m	276.823 #
49) L6	Aroclor-1254{5}	22.45	24.56	533858	289710	881.024	746.228
Sum	Aroclor-1254			2219093	1090706	2696.937	2303.135
Average	Aroclor-1254					539.387	460.627
50) L7	Aroclor-1260{1}	20.47	23.11	483359	246700	727.819	617.028
51) L7	Aroclor-1260{2}	21.24	24.09	370402	231288	306.062	394.555 #
52) L7	Aroclor-1260{3}	22.45	24.56	533858	289710	387.646	426.333
53) L7	Aroclor-1260{4}	26.02	0.00	302009	0	387.718	N.D. #
54) L7	Aroclor-1260{5}	0.00	29.89	0	285287	N.D.	238.834 #
Sum	Aroclor-1260			1689629	1052986	1809.245	1676.750
Average	Aroclor-1260					452.311	419.187
56) L8	Toxaphene{2}	19.51	0.00	673836	0	4127.680	N.D. #
58) L8	Toxaphene{4}	0.00	32.41	0	169039	N.D.	1146.771 #
Sum	Toxaphene			673836	169039	4127.680	1146.771
Average	Toxaphene					4127.680	1146.771

7/22/97

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

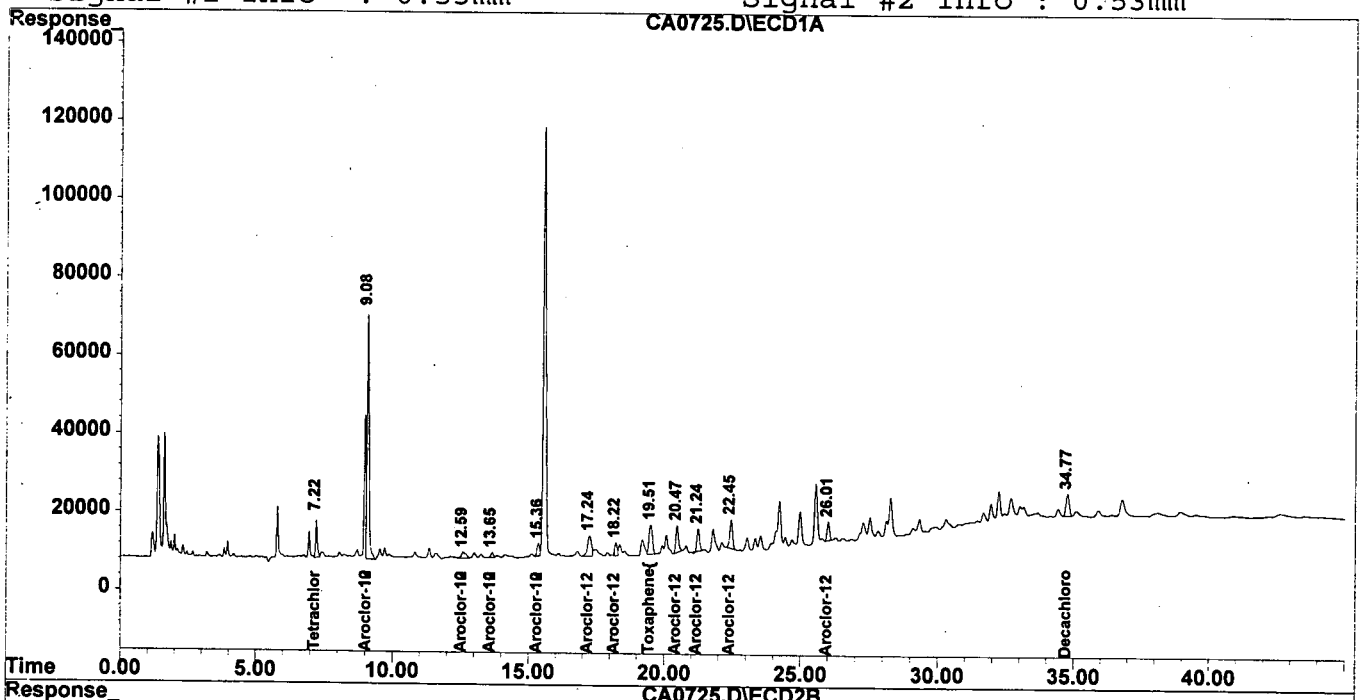
Quantitation Report

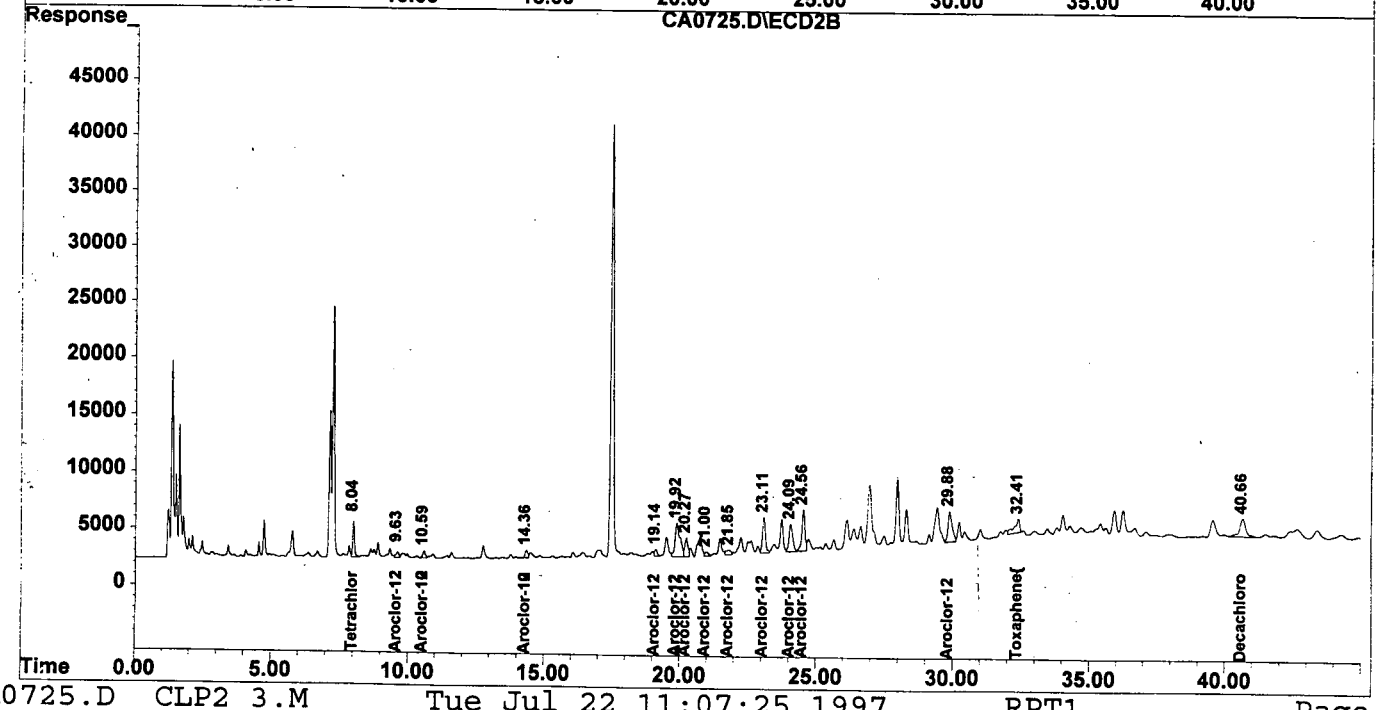
Signal #1 : I:\CA0725.D\ECD1A.CH
Signal #2 : I:\CA0725.D\ECD2B.CH
Acq On : 14 Jul 97 18:01
Sample : 266326
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 9:44 1997 Quant Results File: CLP2_3.RES

Vial: 7
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701
Signal #1 Info : 0.53mm
Signal #2 Phase: DB-608
Signal #2 Info : 0.53mm



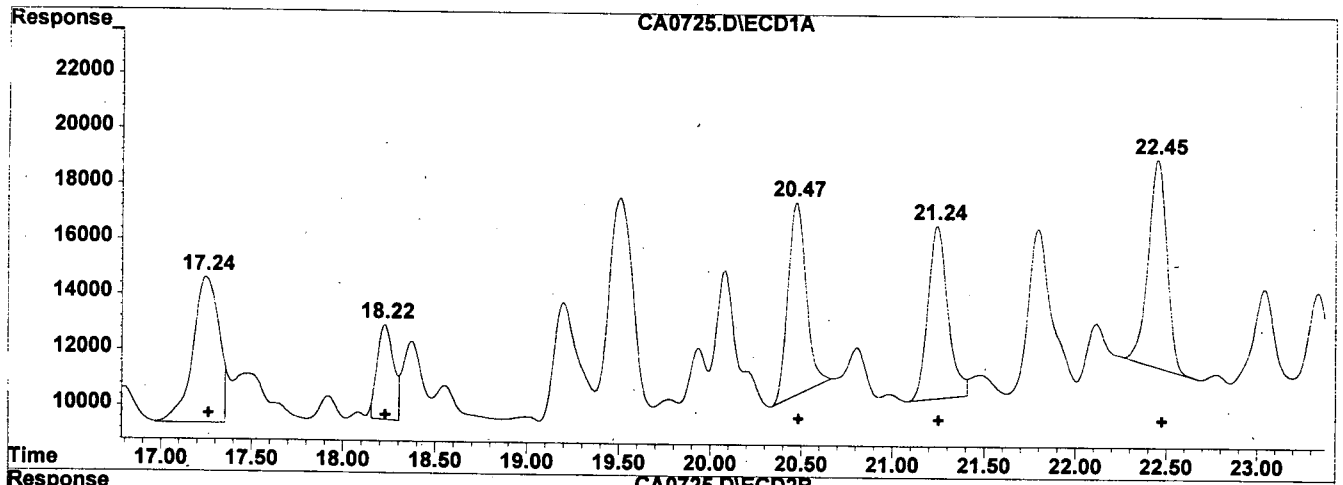


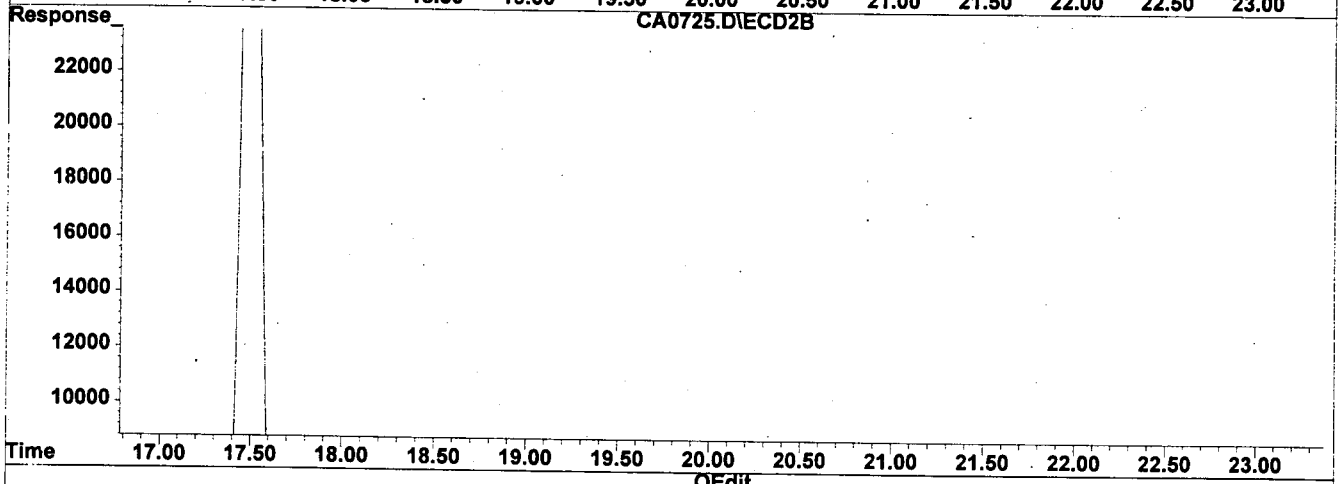
Quantitation Report

Signal #1 : I:\CA0725.D\ECD1A.CH
Signal #2 : I:\CA0725.D\ECD2B.CH
Acq On : 14 Jul 97 18:01
Sample : 266326
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 9:41 1997 Quant Results File: CLP2_3.RES

Vial: 7
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(45) Aroclor-1254{1} #2 (L6)

R.T.	Response	Conc
17.24	520664	434.15
18.22	210466	208.63
20.47	483359	394.40
21.24	470746	778.73
22.45	533858	881.02

(45) Aroclor-1254{1} #2 (L6)

R.T.	Response	Conc
19.92	377784	807.89
20.27	126110	228.88
0.00	0	0.00
23.11	246700	276.82
24.56	289710	746.23

(+) = Expected Retention Time

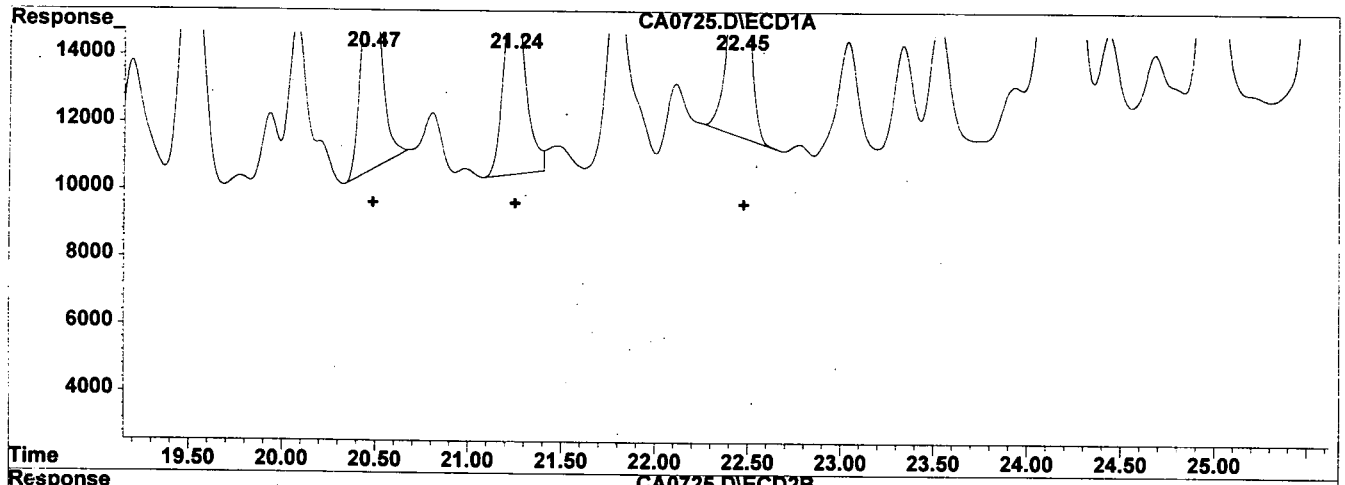
Quantitation Report

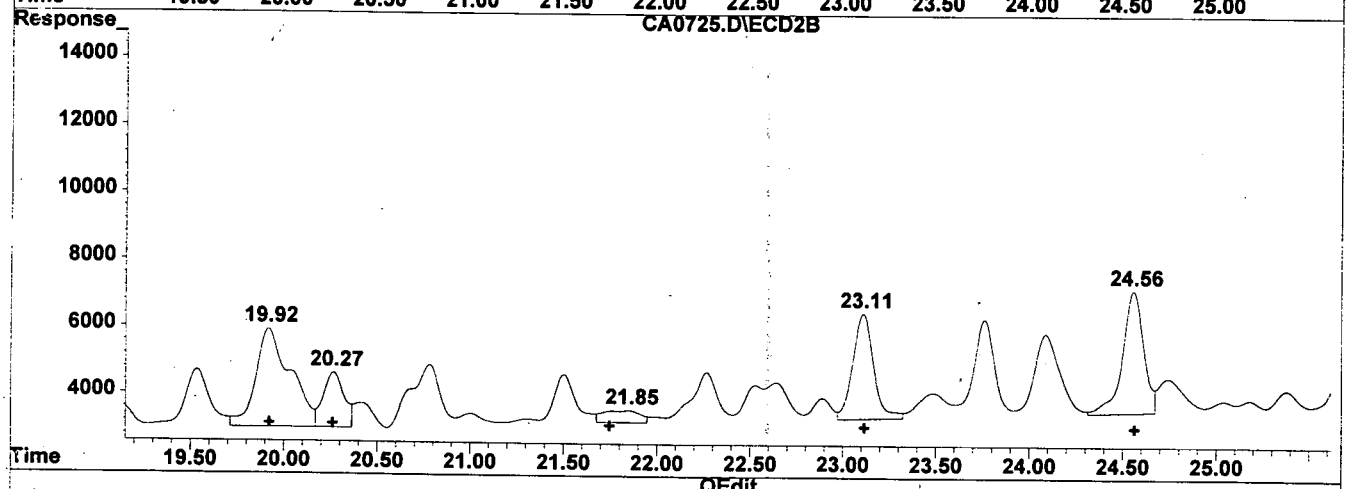
Signal #1 : I:\CA0725.D\ECD1A.CH
Signal #2 : I:\CA0725.D\ECD2B.CH
Acq On : 14 Jul 97 18:01
Sample : 266326
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 9:41 1997 Quant Results File: CLP2_3.RES

Vial: 7

Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(45) Aroclor-1254{1} #2 (L6)

R.T.	Response	Conc
17.24	520664	434.15
18.22	210466	208.63
20.47	483359	394.40
21.24	470746	778.73
22.45	533858	881.02

(45) Aroclor-1254{1} #2 (L6)

R.T.	Response	Conc
19.92	377784	807.89
20.27	126110	228.88
21.85	50402	243.32
23.11	246700	276.82
24.56	289710	746.23

(+) = Expected Retention Time

CA0725.D CLP2_3.M Tue Jul 22 09:44:14 1997 RPT1

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE17

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266327

Sample wt/vol: 30.0 (g/mL) G Lab File ID: CA0732

% Moisture: 5. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/14/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan Sulfate	3.5	U
50-29-3	4,4'-DDT	3.5	U
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	35.	U
11104-28-2	Aroclor-1221	35.	U
11141-16-5	Aroclor-1232	35.	U
53469-21-9	Aroclor-1242	35.	U
12672-29-6	Aroclor-1248	35.	U
11097-69-1	Aroclor-1254	190.	P
11096-82-5	Aroclor-1260	35.	U

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0732.D\ECD1A.CH
Signal #2 : I:\CA0732.D\ECD2B.CH
Acq On : 14 Jul 97 23:42
Sample : 266327
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:10 1997 Quant Results File: CLP2_3.RES

Vial: 14
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.21	8.04	339716	124502	16.790m	17.762
Spiked Amount 20.000 Range 60 - 150 Recovery =					83.95%	88.81%
22) SA Decachlorobiphen	34.78	40.74	281038	223631	11.299	21.393m#
Spiked Amount 20.000 Range 60 - 150 Recovery =					56.50%#	106.97%
Target Compounds						
23) L1 Aroclor-1016{1}	9.17	0.00	257513	0	397.250	N.D. #
25) L1 Aroclor-1016{3}	12.61	14.35	152126	43916	72.989	50.900 #
26) L1 Aroclor-1016{4}	13.68	0.00	28446	0	43.990	N.D. #
27) L1 Aroclor-1016{5}	0.00	17.76	0	106567	N.D.	444.436 #
Sum Aroclor-1016			438085	150483	514.230	495.337
Average Aroclor-1016					171.410	247.668
30) L2 Aroclor-1221{3}	9.17	0.00	257513	0	281.328	N.D. #
Sum Aroclor-1221			257513	0	281.328	N.D.
Average Aroclor-1221					281.328	0.000
31) L3 Aroclor-1232{1}	9.17	0.00	257513	0	486.223	N.D. #
33) L3 Aroclor-1232{3}	12.61	14.35	152126	43916	204.696	130.888 #
Sum Aroclor-1232			409639	43916	690.919	130.888
Average Aroclor-1232					345.459	130.888
35) L4 Aroclor-1242{1}	9.17	0.00	257513	0	554.236	N.D. #
37) L4 Aroclor-1242{3}	12.61	14.35	152126	43916	93.863	69.258 #
38) L4 Aroclor-1242{4}	13.68	0.00	28446	0	61.578	N.D. #
39) L4 Aroclor-1242{5}	0.00	17.76	0	106567	N.D.	465.847 #
Sum Aroclor-1242			438085	150483	709.678	535.105
Average Aroclor-1242					236.559	267.553
41) L5 Aroclor-1248{2}	12.61	14.35	152126	43916	120.779	81.353 #
42) L5 Aroclor-1248{3}	0.00	17.76	0	106567	N.D.	321.663 #
43) L5 Aroclor-1248{4}	0.00	19.14	0	54718	N.D.	159.714 #
44) L5 Aroclor-1248{5}	0.00	21.01	0	52547	N.D.	130.143 #
Sum Aroclor-1248			152126	257747	120.779	692.873
Average Aroclor-1248					120.779	173.218

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

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0732.D\ECD1A.CH
Signal #2 : I:\CA0732.D\ECD2B.CH
Acq On : 14 Jul 97 23:42
Sample : 266327
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:10 1997 Quant Results File: CLP2_3.RES

Vial: 14
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701
Signal #1 Info : 0.53mm
Signal #2 Phase: DB-608
Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
5)	L6 Aroclor-1254{1}	17.26	19.91	359798	214881	300.013m	459.519	#
46)	L6 Aroclor-1254{2}	18.22	20.27	301238	124015	298.615m	225.081	
47)	L6 Aroclor-1254{3}	20.47	21.76	1261695	70643	1029.485	341.030	#
8)	L6 Aroclor-1254{4}	21.25	23.11	372056	332385	615.472	372.969	#
9)	L6 Aroclor-1254{5}	22.44	24.56	798096	530772	1317.096	1367.148	
	Sum Aroclor-1254			3092883	1272695	3560.682	2765.747	
	verage Aroclor-1254					712.136	553.149	
50)	L7 Aroclor-1260{1}	20.47	23.11	1261695	332385	1899.800	831.336	#
51)	L7 Aroclor-1260{2}	21.25	24.09	372056	263152	307.428	448.912	#
2)	L7 Aroclor-1260{3}	22.44	24.56	798096	530772	579.515	781.075	#
53)	L7 Aroclor-1260{4}	26.01	0.00	347368	0	445.949	N.D.	#
54)	L7 Aroclor-1260{5}	0.00	29.89	0	116587	N.D.	97.604	#
	Sum Aroclor-1260			2779215	1242896	3232.692	2158.926	
	verage Aroclor-1260					808.173	539.731	
5)	L8 Toxaphene{2}	19.51	0.00	370901	0	2272.012	N.D.	#
8)	L8 Toxaphene{4}	0.00	32.39	0	144263	N.D.	978.694	#
	Sum Toxaphene			370901	144263	2272.012	978.694	
	Average Toxaphene					2272.012	978.694	

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

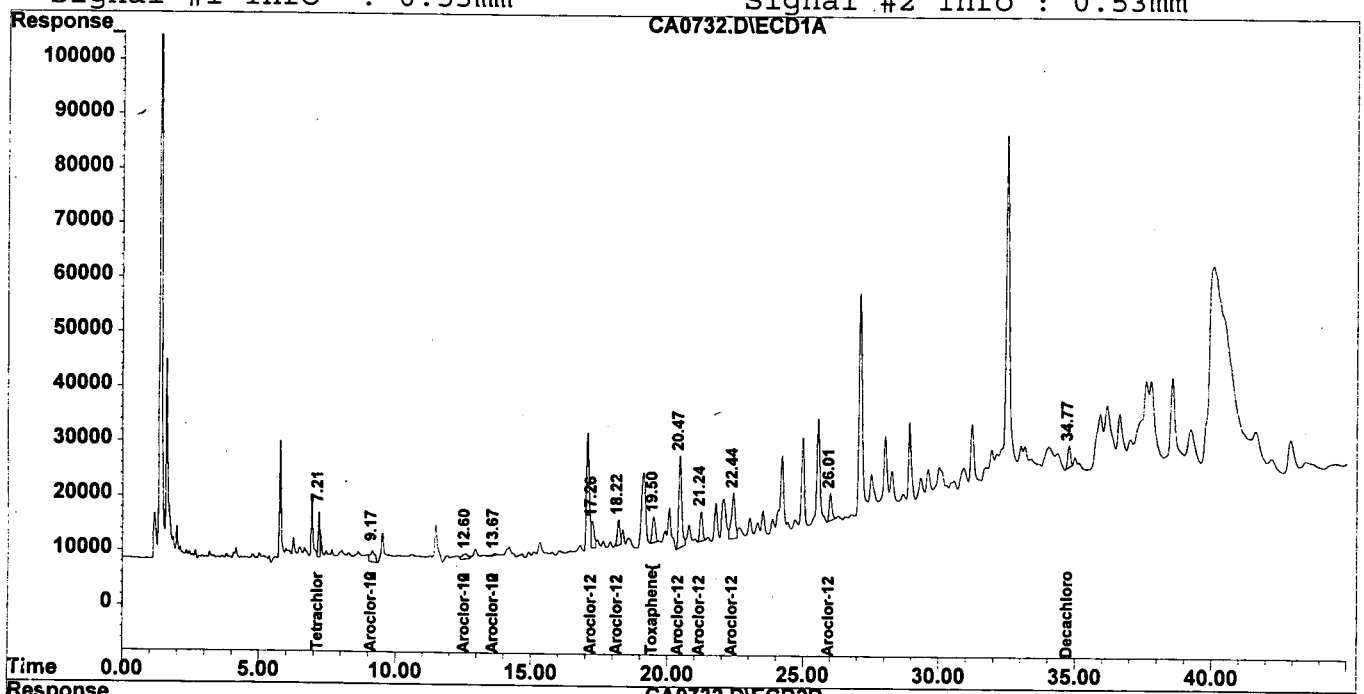
Quantitation Report

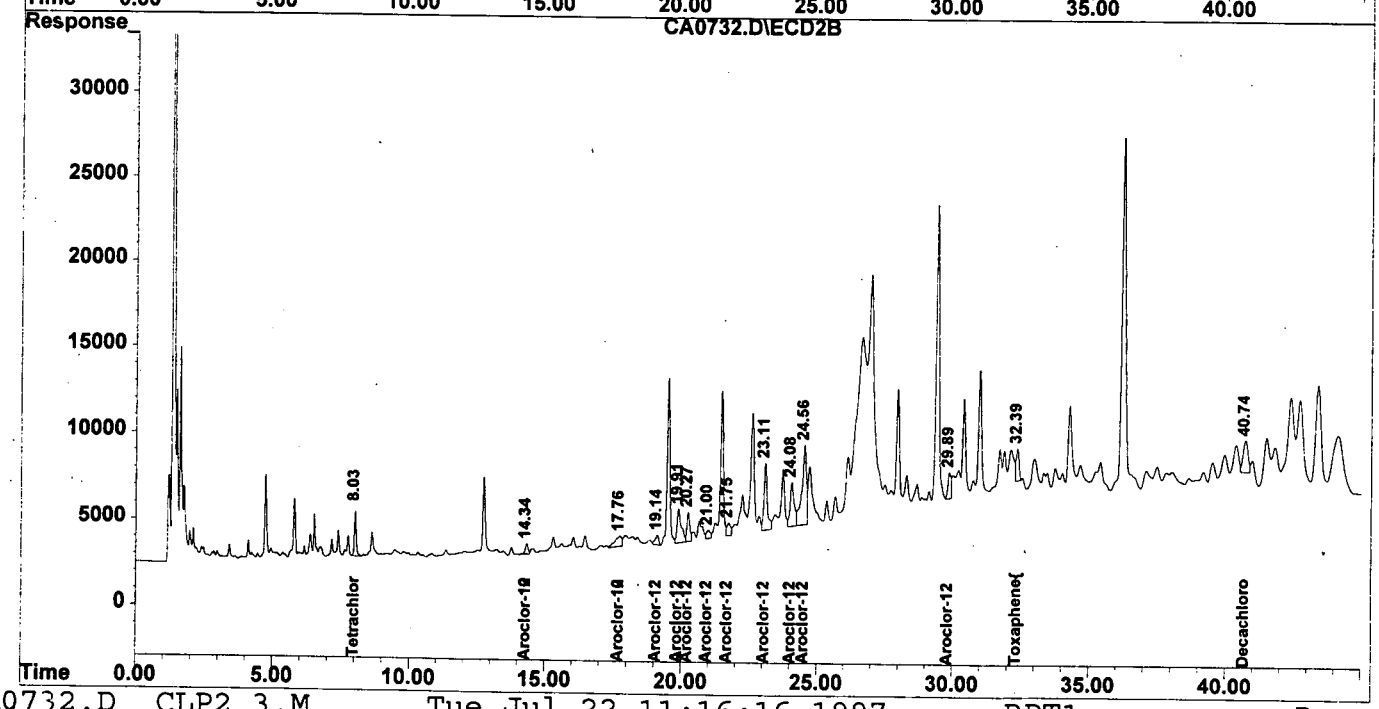
Signal #1 : I:\CA0732.D\ECD1A.CH
Signal #2 : I:\CA0732.D\ECD2B.CH
Acq On : 14 Jul 97 23:42
Sample : 266327
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:10 1997 Quant Results File: CLP2_3.RES

Vial: 14
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701
Signal #1 Info : 0.53mm
Signal #2 Phase: DB-608
Signal #2 Info : 0.53mm



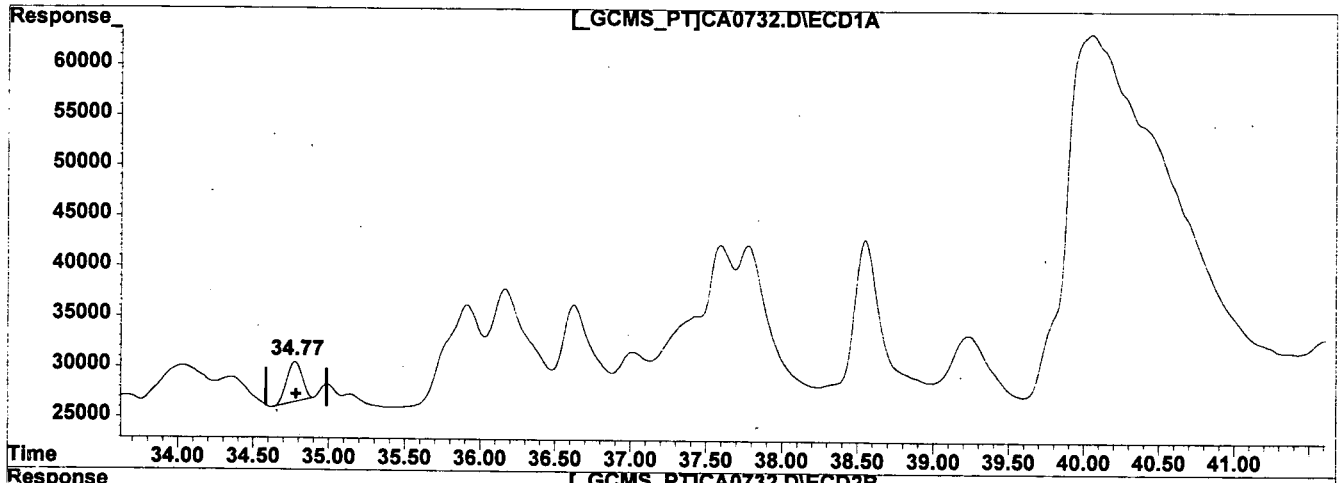


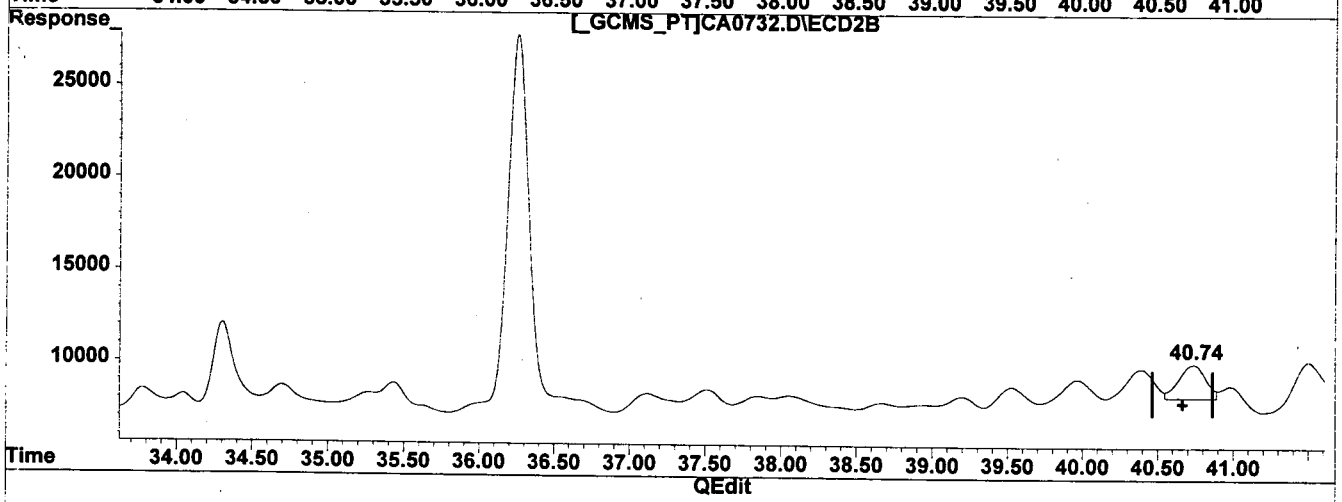
Quantitation Report

Signal #1 : I:\CA0732.D\ECD1A.CH
Signal #2 : I:\CA0732.D\ECD2B.CH
Acq On : 14 Jul 97 23:42
Sample : 266327
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 19:51 1997 Quant Results File: CLP2_3.RES

Vial: 14
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

34.78min 11.299ng/ml

response 281038

(22) Decachlorobiphenyl #2 (SA)

40.74min 21.393ng/ml m

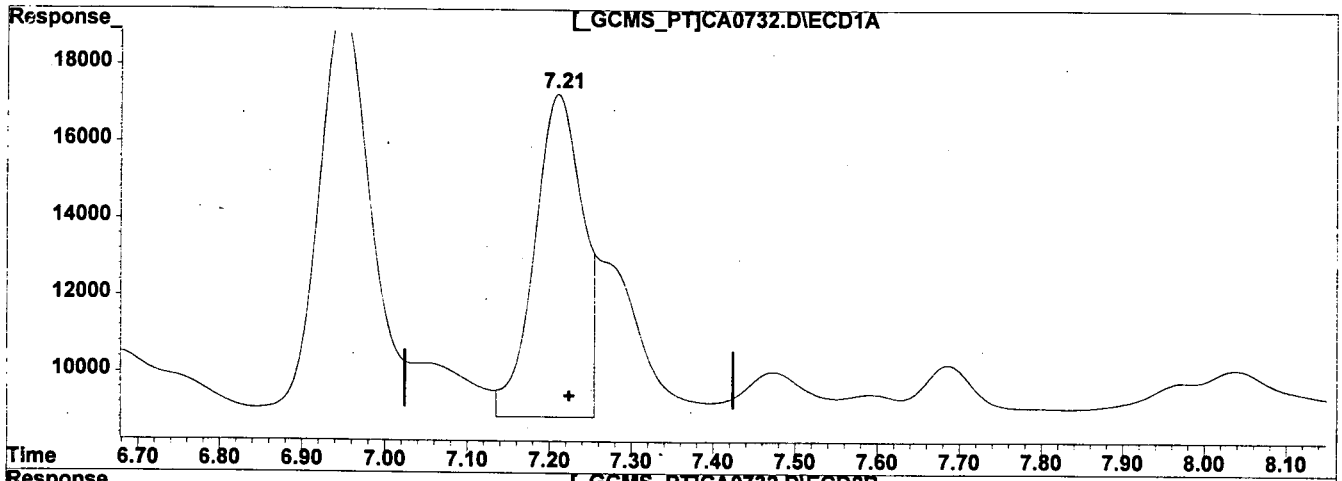
response 223631

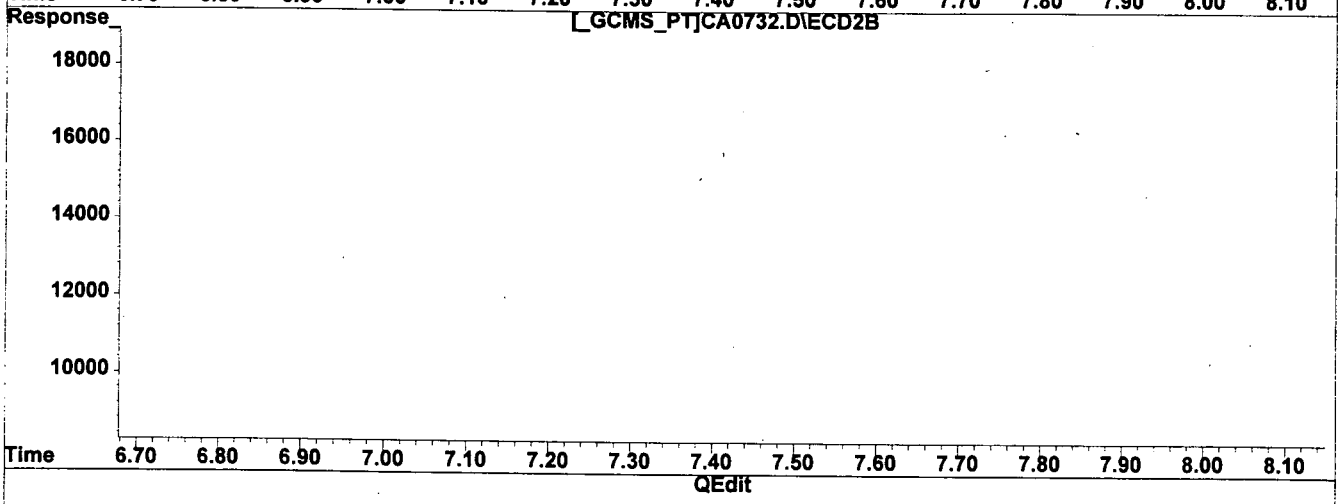
(+) = Expected Retention Time

Quantitation Report

Signal #1 : I:\CA0732.D\ECD1A.CH Vial: 14
Signal #2 : I:\CA0732.D\ECD2B.CH
Acq On : 14 Jul 97 23:42 Operator:
Sample : 266327 Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 19:51 1997 Quant Results File: CLP2_3.RES

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(1) Tetrachloro-m-xylene (SA)

7.21min 16.790ng/ml m

response 339716

(1) Tetrachloro-m-xylene #2 (SA)

8.04min 17.762ng/ml

response 124502

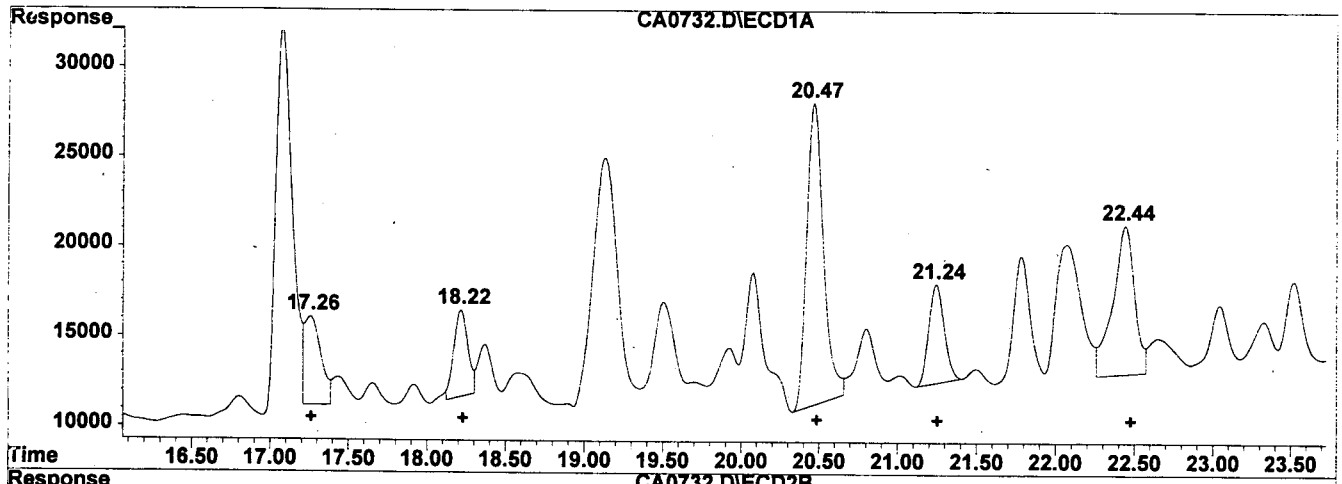
(+) = Expected Retention Time

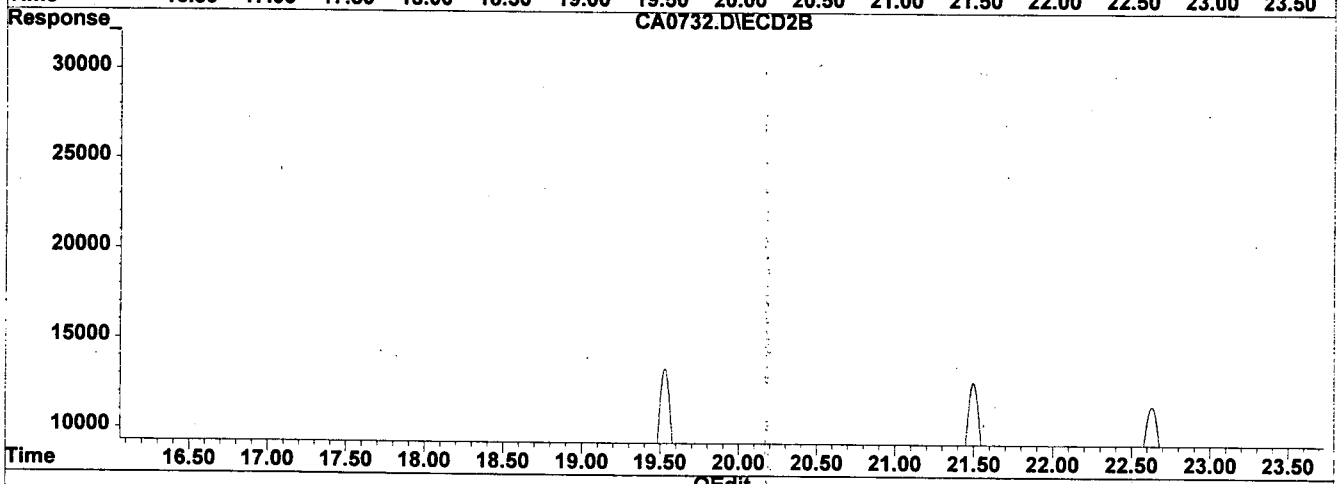
CA0732.D CLP2_3.M Tue Jul 22 10:08:55 1997 RPT1

Quantitation Report

Signal #1 : I:\CA0732.D\ECD1A.CH Vial: 14
Signal #2 : I:\CA0732.D\ECD2B.CH
Acq On : 14 Jul 97 23:42 Operator:
Sample : 266327 Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 19:51 1997 Quant Results File: CLP2_3.RES

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(45) Aroclor-1254{1} #2 (L6)

R.T.	Response	Conc
17.26	359798	300.01
18.22	301238	298.62
20.47	1261695	1029.49
21.25	372056	615.47
22.44	798096	1317.10

(45) Aroclor-1254{1} #2 (L6)

R.T.	Response	Conc
19.91	214881	459.52
20.27	124015	225.08
21.76	70643	341.03
23.11	332385	372.97
24.56	530772	1367.15

(+) = Expected Retention Time

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE18

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266328

Sample wt/vol: 30.0 (g/mL) G Lab File ID: CA0726

% Moisture: 8. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/14/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan Sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	36.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	170.	.
11096-82-5	Aroclor-1260	36.	U

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0726.D\ECD1A.CH Vial: 8
Signal #2 : I:\CA0726.D\ECD2B.CH
Acq On : 14 Jul 97 18:49 Operator:
Sample : 266328 Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 9:47 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.22	8.04	434926	144093	21.496	20.557
Spiked Amount 20.000 Range 60 - 150 Recovery =					107.48%	102.79%
22) SA Decachlorobiphen	34.77	40.67	529985	294888	21.307m	28.210m#
Spiked Amount 20.000 Range 60 - 150 Recovery =					106.54%	141.05%
Target Compounds						
23) L1 Aroclor-1016{1}	9.18	0.00	217724	0	335.869	N.D. #
25) L1 Aroclor-1016{3}	12.62	14.34	104748	38893	50.258	45.078
26) L1 Aroclor-1016{4}	13.68	0.00	27811	0	43.008	N.D. #
27) L1 Aroclor-1016{5}	0.00	17.77	0	32026	N.D.	133.564 #
Sum Aroclor-1016			350283	70919	429.135	178.642
Average Aroclor-1016					143.045	89.321
28) L2 Aroclor-1221{1}	0.00	9.63	0	23151	N.D.	221.815 #
29) L2 Aroclor-1221{2}	0.00	10.33	0	12119	N.D.	131.305 #
30) L2 Aroclor-1221{3}	9.18	0.00	217724	0	237.859	N.D. #
Sum Aroclor-1221			217724	35270	237.859	353.120
Average Aroclor-1221					237.859	176.560
31) L3 Aroclor-1232{1}	9.18	0.00	217724	0	411.094	N.D. #
33) L3 Aroclor-1232{3}	12.62	14.34	104748	38893	140.946	115.917
Sum Aroclor-1232			322472	38893	552.041	115.917
Average Aroclor-1232					276.020	115.917
35) L4 Aroclor-1242{1}	9.18	0.00	217724	0	468.599	N.D. #
37) L4 Aroclor-1242{3}	12.62	14.34	104748	38893	64.631	61.336
38) L4 Aroclor-1242{4}	13.68	0.00	27811	0	60.204	N.D. #
39) L4 Aroclor-1242{5}	0.00	17.77	0	32026	N.D.	139.999 #
Sum Aroclor-1242			350283	70919	593.434	201.335
Average Aroclor-1242					197.811	100.667
41) L5 Aroclor-1248{2}	12.62	14.34	104748	38893	83.164	72.047
42) L5 Aroclor-1248{3}	0.00	17.77	0	32026	N.D.	96.668 #
43) L5 Aroclor-1248{4}	0.00	19.14	0	62452	N.D.	182.289 #
44) L5 Aroclor-1248{5}	0.00	21.00	0	40744	N.D.	100.912 #

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

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0726.D\ECD1A.CH
Signal #2 : I:\CA0726.D\ECD2B.CH
Acq On : 14 Jul 97 18:49
Sample : 266328
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 9:47 1997 Quant Results File: CLP2_3.RES

Vial: 8
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701
Signal #1 Info : 0.53mm
Signal #2 Phase: DB-608
Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	Sum Aroclor-1248			104748	174115	83.164	451.916	
	Average Aroclor-1248					83.164	112.979	
45)	L6 Aroclor-1254{1}	17.26	19.91	391890	236786	326.773	506.364	#
46)	L6 Aroclor-1254{2}	18.22	20.26	345397	199204	342.389	361.546	
47)	L6 Aroclor-1254{3}	20.47	21.75	670214	67862	546.863	327.604	#
48)	L6 Aroclor-1254{4}	21.24	23.11	381573	309206	631.217	346.961	#
49)	L6 Aroclor-1254{5}	22.45	24.56	656905	309528	1084.089	797.275	#
	Sum Aroclor-1254			2445978	1122588	2931.331	2339.750	
	Average Aroclor-1254					586.266	467.950	
50)	L7 Aroclor-1260{1}	20.47	23.11	670214	309206	1009.175	773.364	
51)	L7 Aroclor-1260{2}	21.24	24.09	381573	210656	315.293	359.358	
52)	L7 Aroclor-1260{3}	22.45	24.56	656905	309528	476.993	455.497	
53)	L7 Aroclor-1260{4}	26.01	0.00	311269	0	399.606	N.D.	#
54)	L7 Aroclor-1260{5}	0.00	29.88	0	154754	N.D.	129.556	#
	Sum Aroclor-1260			2019961	984145	2201.067	1717.775	
	Average Aroclor-1260					550.267	429.444	
56)	L8 Toxaphene{2}	19.51	0.00	1033814	0	6332.783	N.D.	#
58)	L8 Toxaphene{4}	0.00	32.41	0	109477	N.D.	742.698	#
	Sum Toxaphene			1033814	109477	6332.783	742.698	
	Average Toxaphene					6332.783	742.698	

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

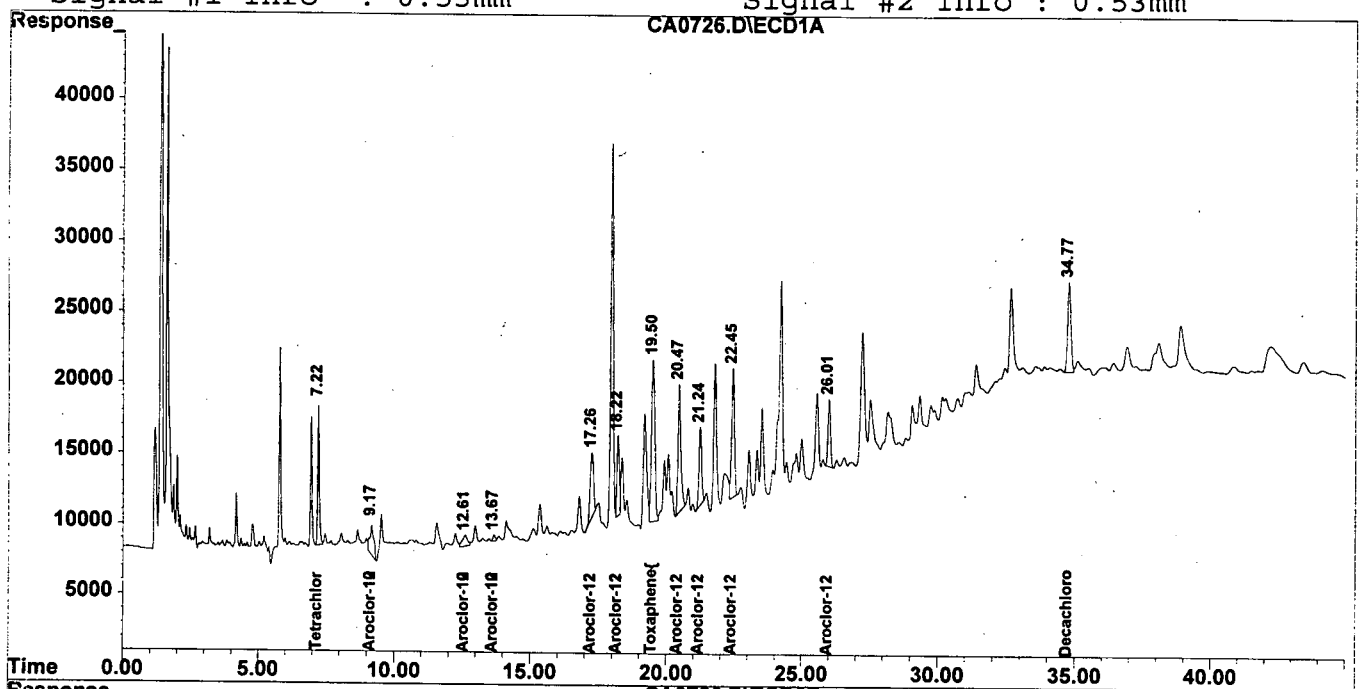
Quantitation Report

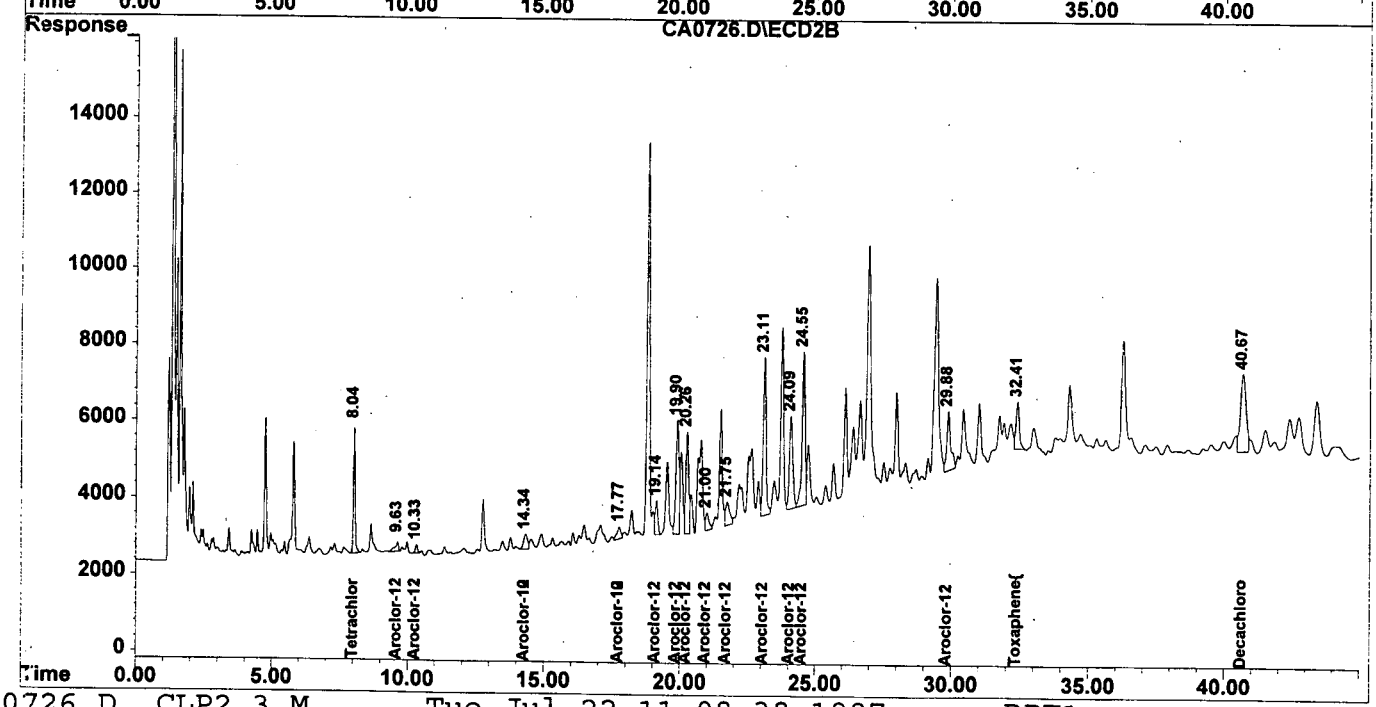
Signal #1 : I:\CA0726.D\ECD1A.CH
Signal #2 : I:\CA0726.D\ECD2B.CH
Acq On : 14 Jul 97 18:49
Sample : 266328
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 9:47 1997 Quant Results File: CLP2_3.RES

Vial: 8
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701
Signal #1 Info : 0.53mm
Signal #2 Phase: DB-608
Signal #2 Info : 0.53mm





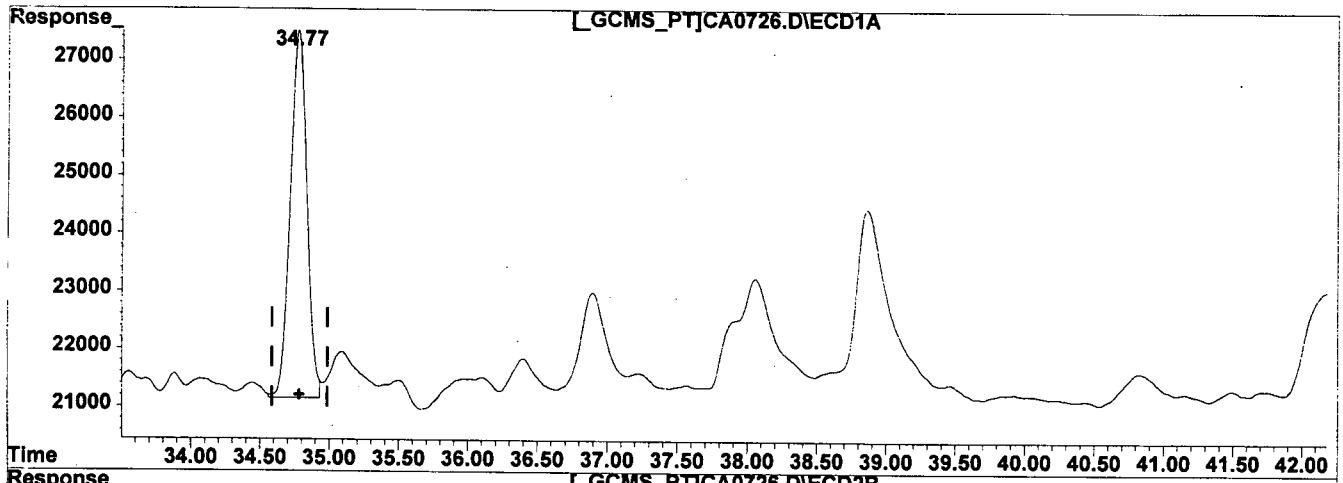
Quantitation Report

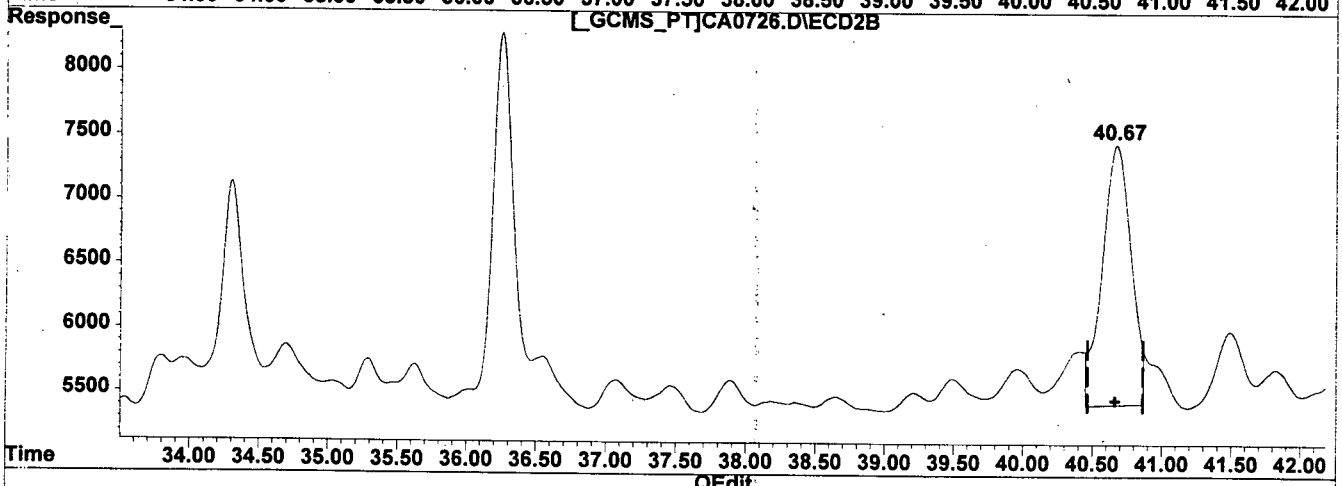
Signal #1 : I:\CA0726.D\ECD1A.CH
Signal #2 : I:\CA0726.D\ECD2B.CH
Acq On : 14 Jul 97 18:49
Sample : 266328
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 19:44 1997 Quant Results File: CLP2_3.RES

Vial: 8

Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

34.77min 21.307ng/ml m

response 529985

(22) Decachlorobiphenyl #2 (SA)

40.67min 28.210ng/ml m

response 294888

(+) = Expected Retention Time

CA0726.D CLP2_3.M Tue Jul 22 09:47:15 1997 RPT1

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE19

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266329

Sample wt/vol: 30.1 (g/mL) G Lab File ID: CA0724

% Moisture: 5. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/14/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan Sulfate	3.5	U
50-29-3	4,4'-DDT	3.5	U
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170.	U
12674-11-2	Aroclor-1016	35.	U
11104-28-2	Aroclor-1221	35.	U
11141-16-5	Aroclor-1232	35.	U
53469-21-9	Aroclor-1242	35.	U
12672-29-6	Aroclor-1248	35.	U
11097-69-1	Aroclor-1254	73.	J P
11096-82-5	Aroclor-1260	35.	U

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0724.D\ECD1A.CH Vial: 6
Signal #2 : I:\CA0724.D\ECD2B.CH
Acq On : 14 Jul 97 17:12 Operator:
Sample : 266329 Inst : GC_5890_
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 9:30 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.23	8.04	434042	126957	21.452	18.112
Spiked Amount 20.000 Range 60 - 150 Recovery =					107.26%	90.56%
22) SA Decachlorobiphen	34.78	40.66	444317	181381	17.863	17.352
Spiked Amount 20.000 Range 60 - 150 Recovery =					89.32%	86.76%
Target Compounds						
27) L1 Aroclor-1016{5}	0.00	17.78	0	18214	N.D.	75.961 #
Sum Aroclor-1016			0	18214	N.D.	75.961
Average Aroclor-1016					0.000	75.961
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
39) L4 Aroclor-1242{5}	0.00	17.78	0	18214	N.D.	79.621 #
Sum Aroclor-1242			0	18214	N.D.	79.621
Average Aroclor-1242					0.000	79.621
42) L5 Aroclor-1248{3}	0.00	17.78	0	18214	N.D.	54.977 #
43) L5 Aroclor-1248{4}	0.00	19.15	0	23897	N.D.	69.751 #
44) L5 Aroclor-1248{5}	0.00	21.01	0	27768	N.D.	68.773 #
Sum Aroclor-1248			0	69878	N.D.	193.501
Average Aroclor-1248					0.000	64.500
45) L6 Aroclor-1254{1}	17.29	19.92	258858	67246	215.846m	143.805m#
46) L6 Aroclor-1254{2}	18.24	20.27	142008	93288	140.772m	169.313m
47) L6 Aroclor-1254{3}	20.47	21.76	357218	23815	291.473m	114.967 #
48) L6 Aroclor-1254{4}	21.25	23.12	259820	172015	429.807m	193.019 #
49) L6 Aroclor-1254{5}	22.46	24.56	307526	165663	507.509	426.710
Sum Aroclor-1254			1325430	522027	1585.407	1047.814
Average Aroclor-1254					317.081	209.563
50) L7 Aroclor-1260{1}	20.48	23.12	325991	172015	490.861	430.232

7/21/4

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

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0724.D\ECD1A.CH Vial: 6
Signal #2 : I:\CA0724.D\ECD2B.CH
Acq On : 14 Jul 97 17:12 Operator:
Sample : 266329 Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 9:30 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
51) L7	Aroclor-1260{2}	0.00	24.09	0	107022	N.D.	182.570 #
52) L7	Aroclor-1260{3}	22.46	24.56	307526	165663	223.301	243.787
54) L7	Aroclor-1260{5}	0.00	29.89	0	39298	N.D.	32.899 #
Sum	Aroclor-1260			633517	483998	714.163	889.487
Average	Aroclor-1260					357.081	222.372
Sum	Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000

7/22/97

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

Quantitation Report

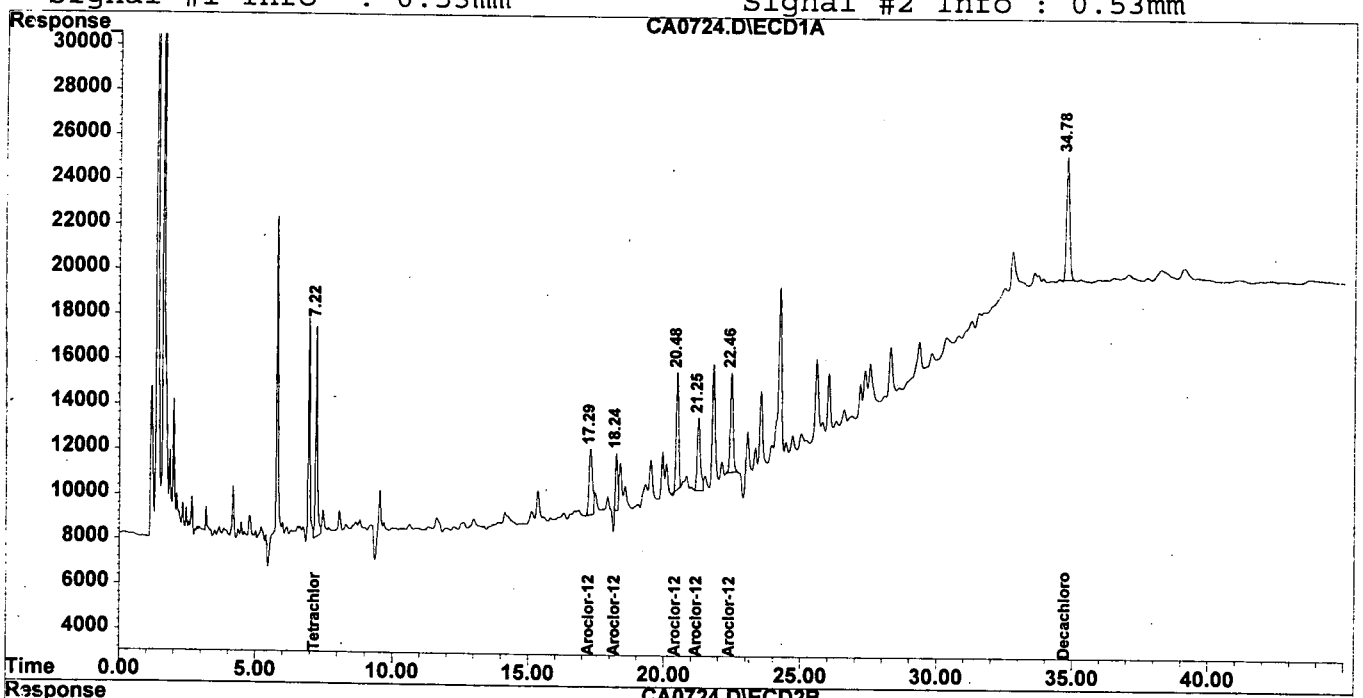
Signal #1 : I:\CA0724.D\ECD1A.CH
Signal #2 : I:\CA0724.D\ECD2B.CH
Acq On : 14 Jul 97 17:12
Sample : 266329
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 9:30 1997 Quant Results File: CLP2_3.RES

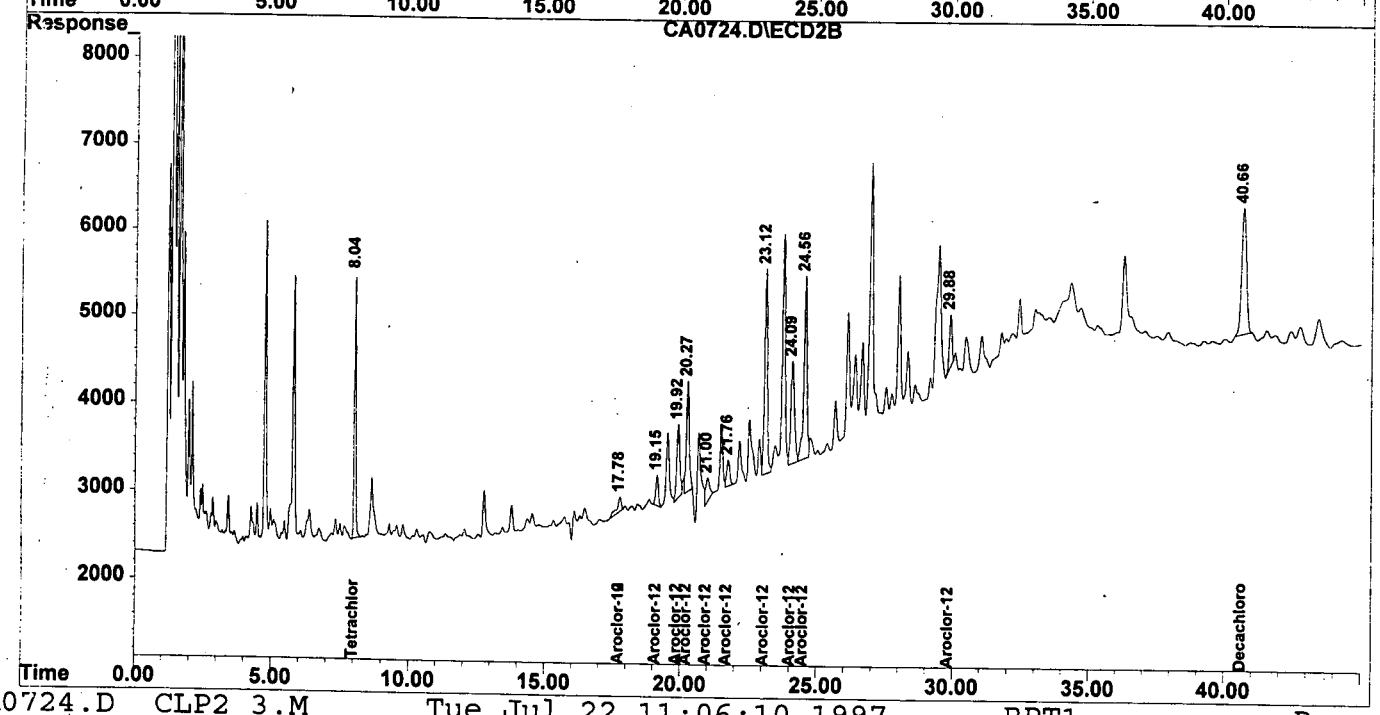
Vial: 6

Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701
Signal #1 Info : 0.53mm
Signal #2 Phase: DB-608
Signal #2 Info : 0.53mm



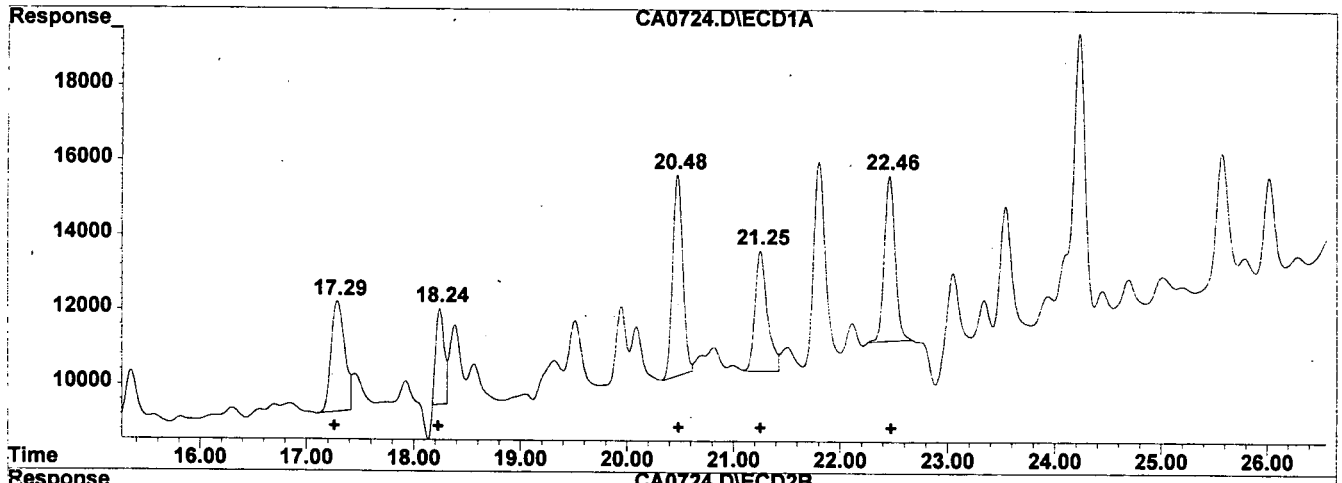


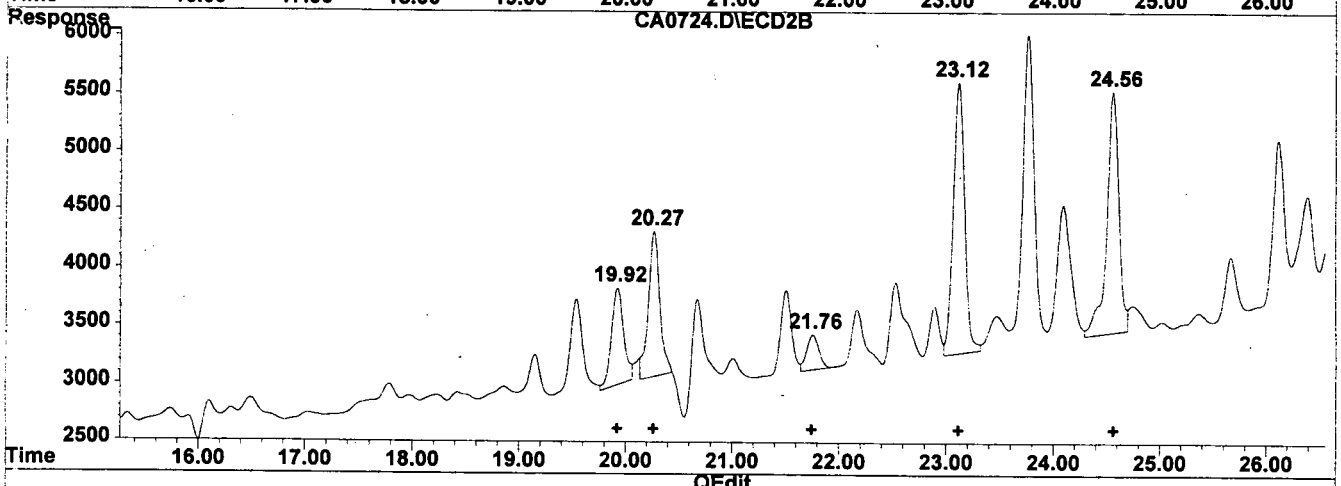
Quantitation Report

Signal #1 : I:\CA0724.D\ECD1A.CH
Signal #2 : I:\CA0724.D\ECD2B.CH
Acq On : 14 Jul 97 17:12
Sample : 266329
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 9:30 1997 Quant Results File: CLP2_3.RES

Vial: 6
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(45) Aroclor-1254{1} (L6)

R.T.	Response	Conc
17.29	258858	215.85
18.24	142008	140.77
20.47	357218	291.47
21.25	259820	429.81
22.46	307526	507.51

(45) Aroclor-1254{1} #2 (L6)

R.T.	Response	Conc
19.92	67246	143.80
20.27	93288	169.31
21.76	23815	114.97
23.12	172015	193.02
24.56	165663	426.71

(+) = Expected Retention Time

CA0724.D CLP2_3.M Tue Jul 22 11:45:01 1997 RPT1

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE20

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266330

Sample wt/vol: 30.4 (g/mL) G Lab File ID: CA0729

% Moisture: 13. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/14/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan Sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190.	U
12674-11-2	Aroclor-1016	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	330.	J P
11096-82-5	Aroclor-1260	38.	U

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0729.D\ECD1A.CH Vial: 11
Signal #2 : I:\CA0729.D\ECD2B.CH
Acq On : 14 Jul 97 21:15 Operator:
Sample : 266330 Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 9:57 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.22	8.04	448063	140315	22.145	20.018
Spiked Amount 20.000 Range 60 - 150 Recovery =					110.73%	100.09%
22) SA Decachlorobiphen	34.77	40.67	561711	222413	22.583m	21.277m
Spiked Amount 20.000 Range 60 - 150 Recovery =					112.92%	106.39%
Target Compounds						
23) L1 Aroclor-1016{1}	9.18	0.00	196856	0	303.678	N.D. #
26) L1 Aroclor-1016{3}	12.62	14.36	87315	41673	41.894	48.301
26) L1 Aroclor-1016{4}	13.68	15.20	51416	10069	79.512	37.522 #
27) L1 Aroclor-1016{5}	15.34	17.76	724889	89415	696.353	372.906 #
Sum Aroclor-1016			1060476	141157	1121.436	458.728
Average Aroclor-1016					280.359	152.909
30) L2 Aroclor-1221{3}	9.18	0.00	196856	0	215.061	N.D. #
Sum Aroclor-1221			196856	0	215.061	N.D.
Average Aroclor-1221					215.061	0.000
31) L3 Aroclor-1232{1}	9.18	0.00	196856	0	371.693	N.D. #
33) L3 Aroclor-1232{3}	12.62	14.36	87315	41673	117.489	124.203
34) L3 Aroclor-1232{4}	15.34	15.20	724889	10069	1176.539	116.651 #
Sum Aroclor-1232			1009061	51742	1665.721	240.855
Average Aroclor-1232					555.240	120.427
35) L4 Aroclor-1242{1}	9.18	0.00	196856	0	423.686	N.D. #
37) L4 Aroclor-1242{3}	12.62	14.36	87315	41673	53.875	65.720
38) L4 Aroclor-1242{4}	13.68	15.20	51416	10069	111.302	57.599 #
39) L4 Aroclor-1242{5}	15.34	17.76	724889	89415	692.393	390.871 #
Sum Aroclor-1242			1060476	141157	1281.255	514.190
Average Aroclor-1242					320.314	171.397
41) L5 Aroclor-1248{2}	12.62	14.36	87315	41673	69.323	77.197
42) L5 Aroclor-1248{3}	15.34	17.76	724889	89415	619.839	269.893 #
43) L5 Aroclor-1248{4}	0.00	19.15	0	119498	N.D.	348.798 #
44) L5 Aroclor-1248{5}	16.80	21.01	263537	71361	554.278	176.742 #
Sum Aroclor-1248			1075742	321948	1243.441	872.630
Average Aroclor-1248					414.480	218.157

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

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0729.D\ECD1A.CH Vial: 11
Signal #2 : I:\CA0729.D\ECD2B.CH
Acq On : 14 Jul 97 21:15 Operator:
Sample : 266330 Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 9:57 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
45) L6	Aroclor-1254{1}	17.26	19.91	935292	361456	779.882m	772.968	
46) L6	Aroclor-1254{2}	18.22	20.27	878137	449159	870.492	815.202	
47) L6	Aroclor-1254{3}	20.47	21.76	1708033	108451	1393.676	523.545	#
48) L6	Aroclor-1254{4}	21.25	23.11	996873	665944	1649.075	747.258	#
49) L6	Aroclor-1254{5}	22.45	24.56	1296713	607962	2139.961	1565.972	#
Sum	Aroclor-1254			5815048	2192972	6833.087	4424.945	
Average	Aroclor-1254					1366.617	884.989	
50) L7	Aroclor-1260{1}	20.47	23.11	1708033	665944	2571.874	1665.611	#
51) L7	Aroclor-1260{2}	21.25	24.09	996873	420075	823.712	716.607	
52) L7	Aroclor-1260{3}	22.45	24.56	1296713	607962	941.571	894.667	
53) L7	Aroclor-1260{4}	26.01	0.00	709363	0	910.677	N.D.	#
54) L7	Aroclor-1260{5}	0.00	29.89	0	238456	N.D.	199.628	#
Sum	Aroclor-1260			4710981	1932437	5247.834	3476.513	
Average	Aroclor-1260					1311.959	869.128	
58) L8	Toxaphene{4}	0.00	32.41	0	192969	N.D.	1309.119	#
Sum	Toxaphene			0	192969	N.D.	1309.119	
Average	Toxaphene					0.000	1309.119	

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

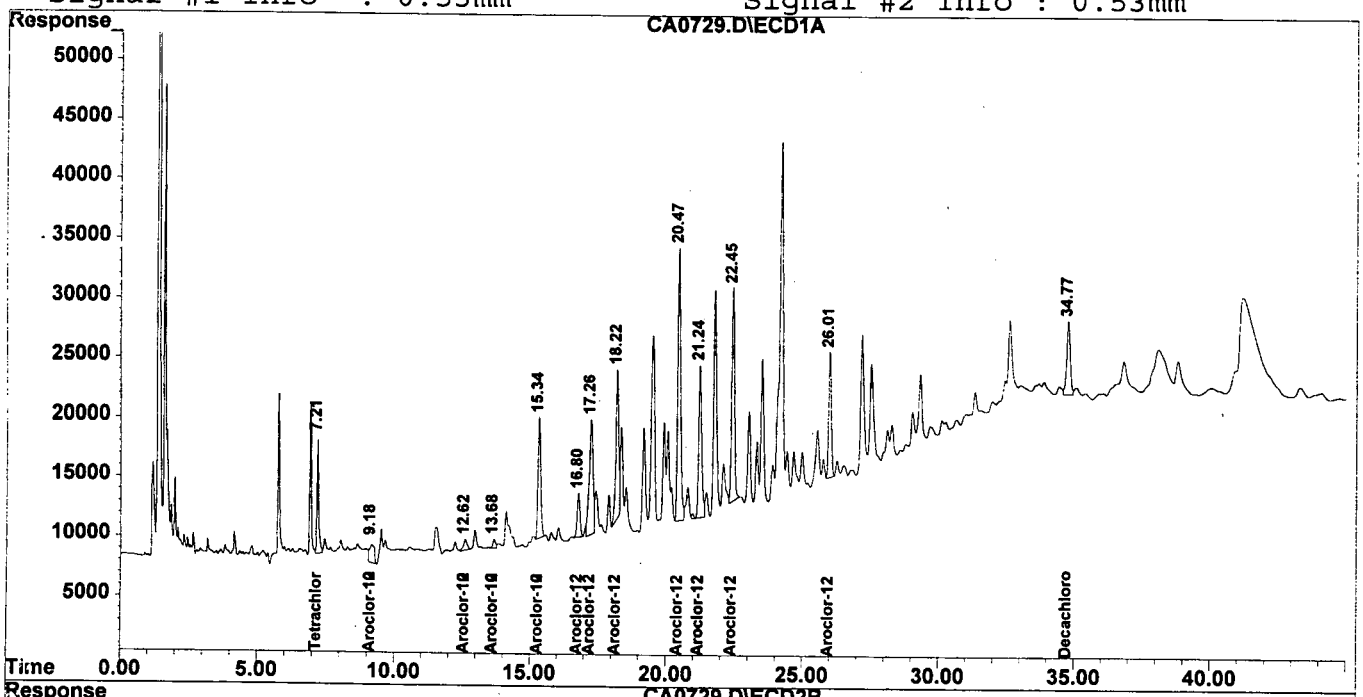
Quantitation Report

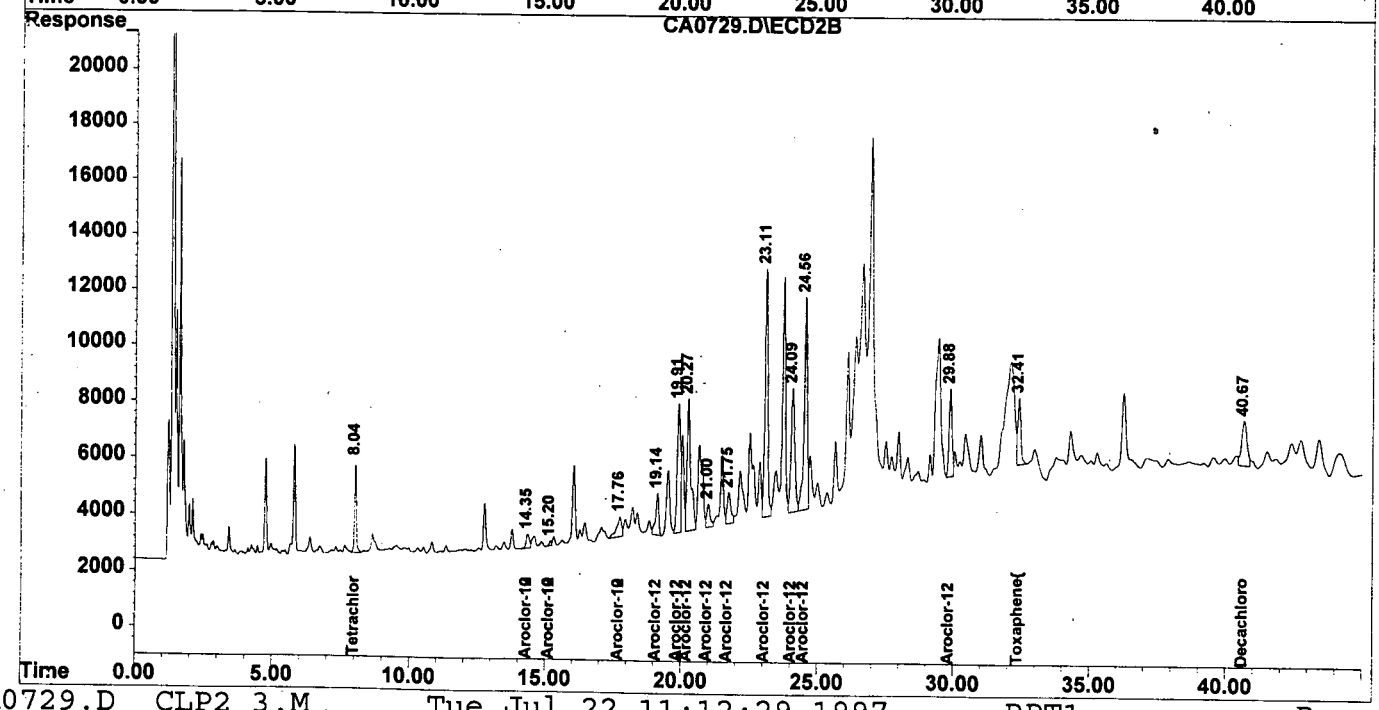
Signal #1 : I:\CA0729.D\ECD1A.CH
Signal #2 : I:\CA0729.D\ECD2B.CH
Acq On : 14 Jul 97 21:15
Sample : 266330
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 9:57 1997 Quant Results File: CLP2_3.RES

Vial: 11
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701
Signal #1 Info : 0.53mm
Signal #2 Phase: DB-608
Signal #2 Info : 0.53mm



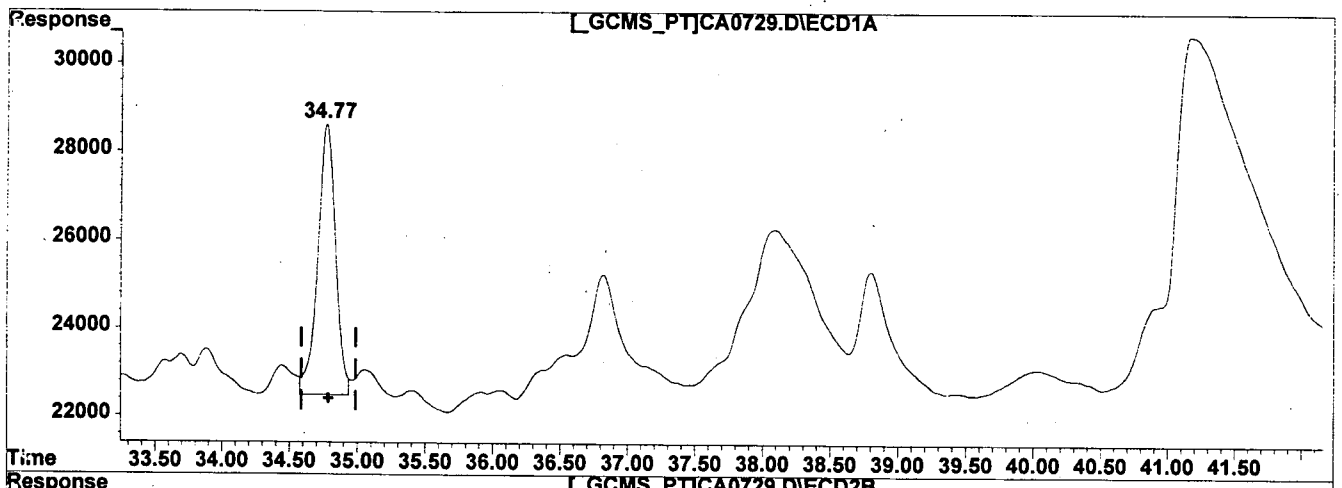


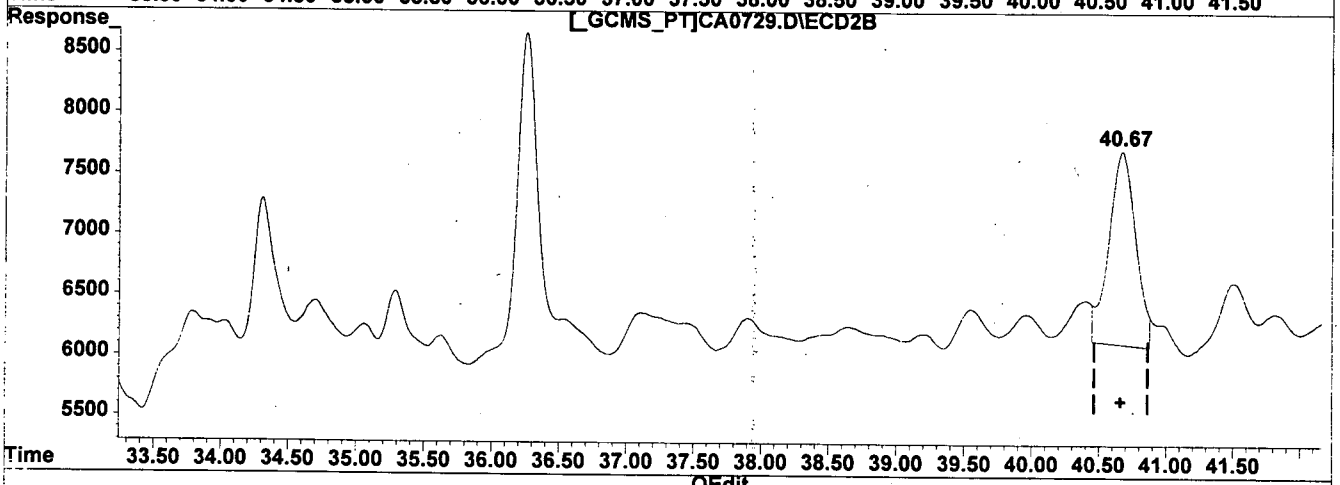
Quantitation Report

Signal #1 : I:\CA0729.D\ECD1A.CH
Signal #2 : I:\CA0729.D\ECD2B.CH
Acq On : 14 Jul 97 21:15
Sample : 266330
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 19:48 1997 Quant Results File: CLP2_3.RES

Vial: 11
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

34.77min 22.583ng/ml m

response 561711

(22) Decachlorobiphenyl #2 (SA)

40.67min 21.277ng/ml m

response 222413

(+) = Expected Retention Time

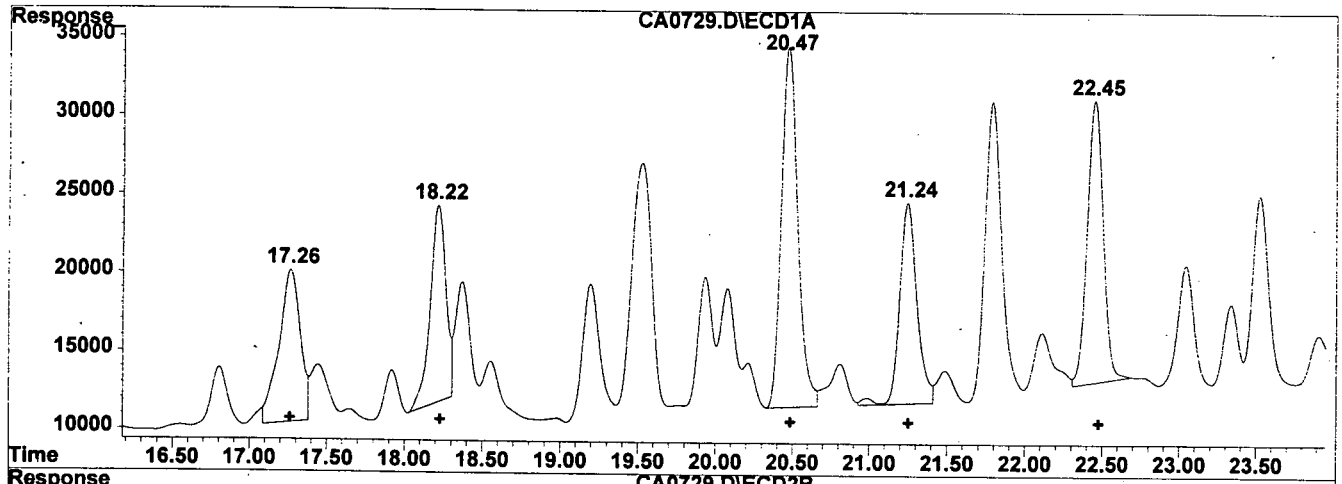
CA0729.D CLP2_3.M Tue Jul 22 09:56:39 1997 RPT1

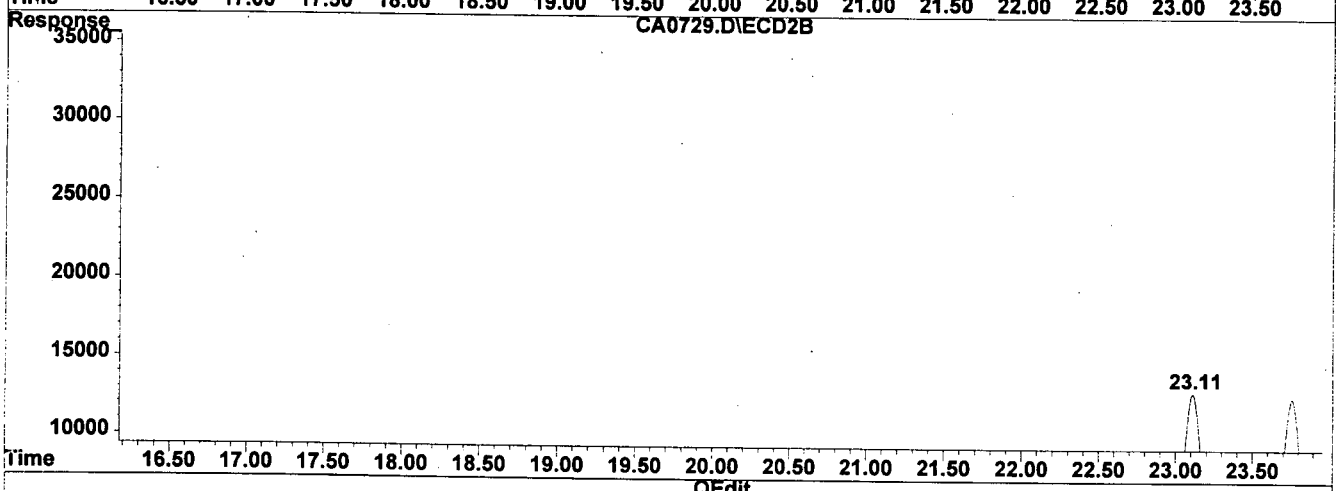
Quantitation Report

Signal #1 : I:\CA0729.D\ECD1A.CH
Signal #2 : I:\CA0729.D\ECD2B.CH
Acq On : 14 Jul 97 21:15
Sample : 266330
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 19:48 1997 Quant Results File: CLP2_3.RES

Vial: 11
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(45) Aroclor-1254{1} #2 (L6)

R.T.	Response	Conc
17.26	935292	779.88
18.22	878137	870.49
20.47	1708033	1393.68
21.25	996873	1649.08
22.45	1296713	2139.96

(45) Aroclor-1254{1} #2 (L6)

R.T.	Response	Conc
19.91	361456	772.97
20.27	449159	815.20
21.76	108451	523.55
23.11	665944	747.26
24.56	607962	1565.97

(+) = Expected Retention Time

CA0729.D CLP2_3.M Tue Jul 22 09:57:30 1997 RPT1

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE21

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix (soil/water) SOIL Lab Sample ID: 266331

Sample wt/vol: 30.1 (g/mL) G Lab File ID: CA0736

% Moisture: 9. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/15/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan Sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	36.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	660.	P
11096-82-5	Aroclor-1260	36.	U

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0736.D\ECD1A.CH Vial: 18
Signal #2 : I:\CA0736.D\ECD2B.CH
Acq On : 15 Jul 97 5:00 Operator:
Sample : 266331 Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:14 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.22	8.04	525611	140906	25.978	20.102
Spiked Amount 20.000 Range 60 - 150 Recovery =					129.89%	100.51%
22) SA Decachlorobiphen	34.79	40.74	436661	379176	17.555	36.273m#
Spiked Amount 20.000 Range 60 - 150 Recovery =					87.78%	181.37%#
Target Compounds						
23) L1 Aroclor-1016{1}	9.18	0.00	246199	0	379.797	N.D. #
24) L1 Aroclor-1016{2}	10.57	0.00	22507	0	18.732	N.D. #
25) L1 Aroclor-1016{3}	12.63	14.37	229232	80320	109.984	93.095
26) L1 Aroclor-1016{4}	13.69	0.00	123488	0	190.969	N.D. #
27) L1 Aroclor-1016{5}	15.34	17.77	441168	127288	423.801	530.852 #
Sum Aroclor-1016			1062594	207608	1123.283	623.947
Average Aroclor-1016					224.657	311.973
30) L2 Aroclor-1221{3}	9.18	0.00	246199	0	268.967	N.D. #
Sum Aroclor-1221			246199	0	268.967	N.D.
Average Aroclor-1221					268.967	0.000
31) L3 Aroclor-1232{1}	9.18	0.00	246199	0	464.860	N.D. #
32) L3 Aroclor-1232{2}	10.57	0.00	22507	0	50.144	N.D. #
33) L3 Aroclor-1232{3}	12.63	14.37	229232	80320	308.447	239.390
34) L3 Aroclor-1232{4}	15.34	0.00	441168	0	716.042	N.D. #
Sum Aroclor-1232			939106	80320	1539.494	239.390
Average Aroclor-1232					384.873	239.390
35) L4 Aroclor-1242{1}	9.18	0.00	246199	0	529.886	N.D. #
36) L4 Aroclor-1242{2}	10.57	0.00	22507	0	24.223	N.D. #
37) L4 Aroclor-1242{3}	12.63	14.37	229232	80320	141.439	126.670
38) L4 Aroclor-1242{4}	13.69	0.00	123488	0	267.320	N.D. #
39) L4 Aroclor-1242{5}	15.34	17.77	441168	127288	421.391	556.426 #
Sum Aroclor-1242			1062594	207608	1384.259	683.096
Average Aroclor-1242					276.852	341.548
40) L5 Aroclor-1248{1}	10.57	0.00	22507	0	47.970	N.D. #
41) L5 Aroclor-1248{2}	12.63	14.37	229232	80320	181.996	148.791

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

Quantitation Report (QT Reviewed)

Signal #1 : I:\CA0736.D\ECD1A.CH Vial: 18
Signal #2 : I:\CA0736.D\ECD2B.CH
Acq On : 15 Jul 97 5:00 Operator:
Sample : 266331 Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:14 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0694.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
42) L5	Aroclor-1248{3}	15.34	17.77	441168	127288	377.234	384.207	
43) L5	Aroclor-1248{4}	0.00	19.15	0	240847	N.D.	702.998	#
44) L5	Aroclor-1248{5}	16.83	21.01	336705	140506	708.166	347.993	#
Sum	Aroclor-1248			1029611	588961	1315.367	1583.989	
Average	Aroclor-1248					328.842	395.997	
45) L6	Aroclor-1254{1}	17.27	19.93	2039159	672975	1700.330	1439.147	
46) L6	Aroclor-1254{2}	18.23	20.27	2316734	884100	2296.563	1604.599	#
47) L6	Aroclor-1254{3}	20.48	21.77	4346616	197565	3546.639	953.745	#
48) L6	Aroclor-1254{4}	21.26	23.12	2316269	1511472	3831.684	1696.025	#
49) L6	Aroclor-1254{5}	22.44	24.57	5917920	1306733	9766.323	3365.849	#
Sum	Aroclor-1254			16936698	4572845	21141.539	9059.366	
Average	Aroclor-1254					4228.308	1811.873	
50) L7	Aroclor-1260{1}	20.48	23.12	4346616	1511472	6544.926	3780.380	#
51) L7	Aroclor-1260{2}	21.26	24.09	2316269	915392	1913.924	1561.569	
52) L7	Aroclor-1260{3}	22.44	24.57	5917920	1306733	4297.129	1922.967	#
53) L7	Aroclor-1260{4}	26.03	0.00	1943359	0	2494.877	N.D.	#
54) L7	Aroclor-1260{5}	0.00	29.89	0	577257	N.D.	483.263	#
Sum	Aroclor-1260			14524165	4310853	15250.856	7748.179	
Average	Aroclor-1260					3812.714	1937.045	
56) L8	Toxaphene{2}	19.51	0.00	1418838	0	8691.305	N.D.	#
58) L8	Toxaphene{4}	0.00	32.42	0	420621	N.D.	2853.524	#
Sum	Toxaphene			1418838	420621	8691.305	2853.524	
Average	Toxaphene					8691.305	2853.524	

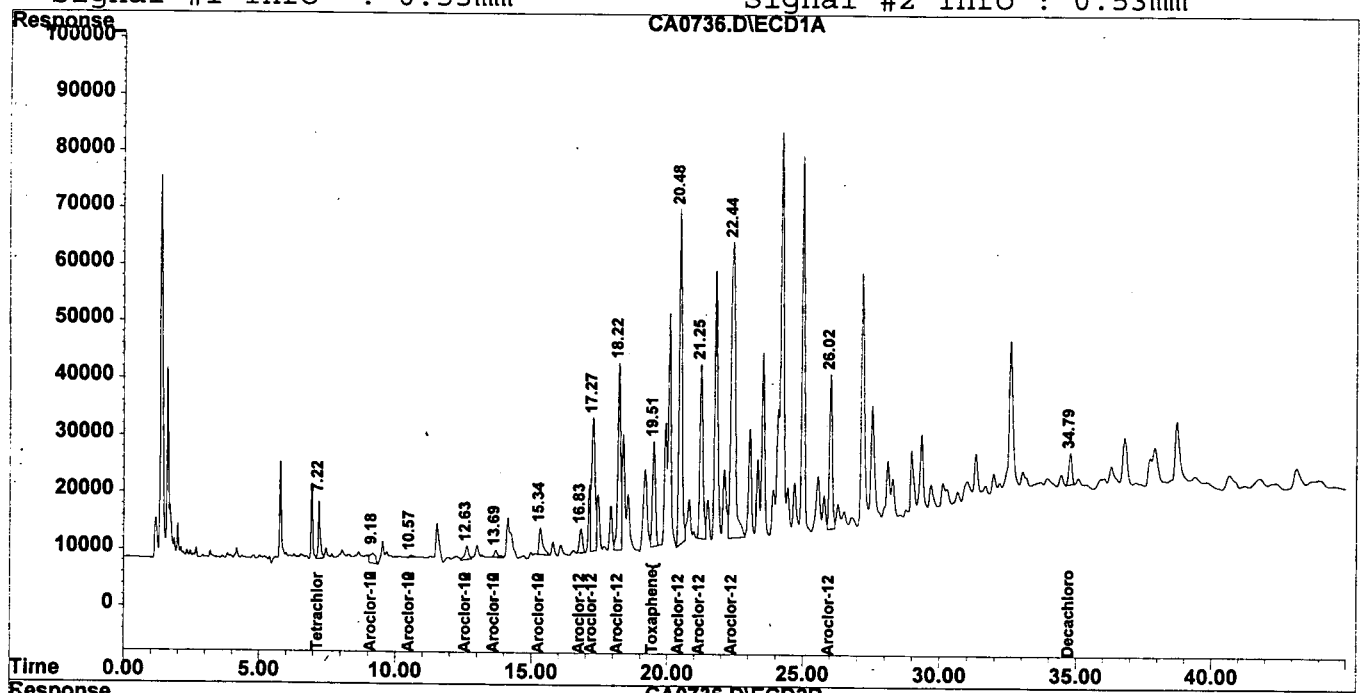
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

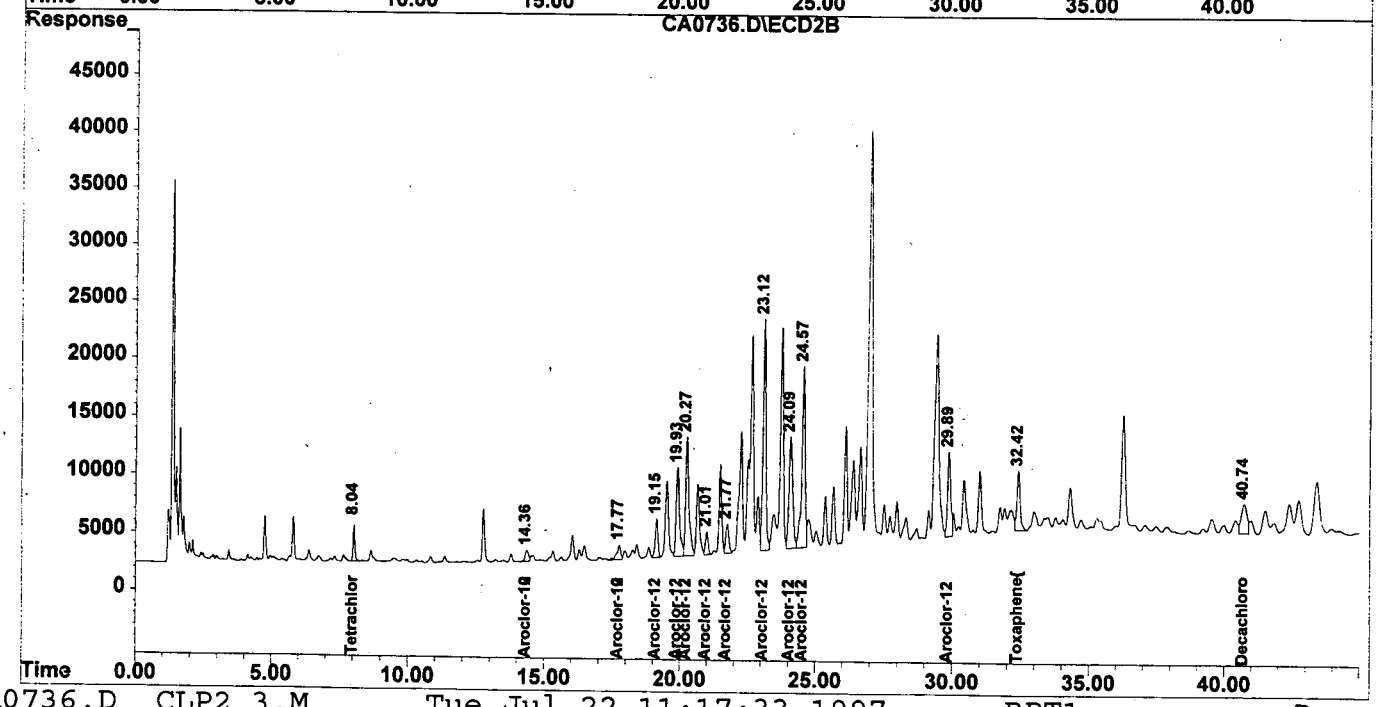
Quantitation Report

Signal #1 : I:\CA0736.D\ECD1A.CH Vial: 18
Signal #2 : I:\CA0736.D\ECD2B.CH
Acq On : 15 Jul 97 5:00 Operator:
Sample : 266331 Inst : GC_5890_3
Misc : QPC7094 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 22 10:14 1997 Quant Results File: CLP2_3.RES

Quant Method : C:\HPCHEM\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm



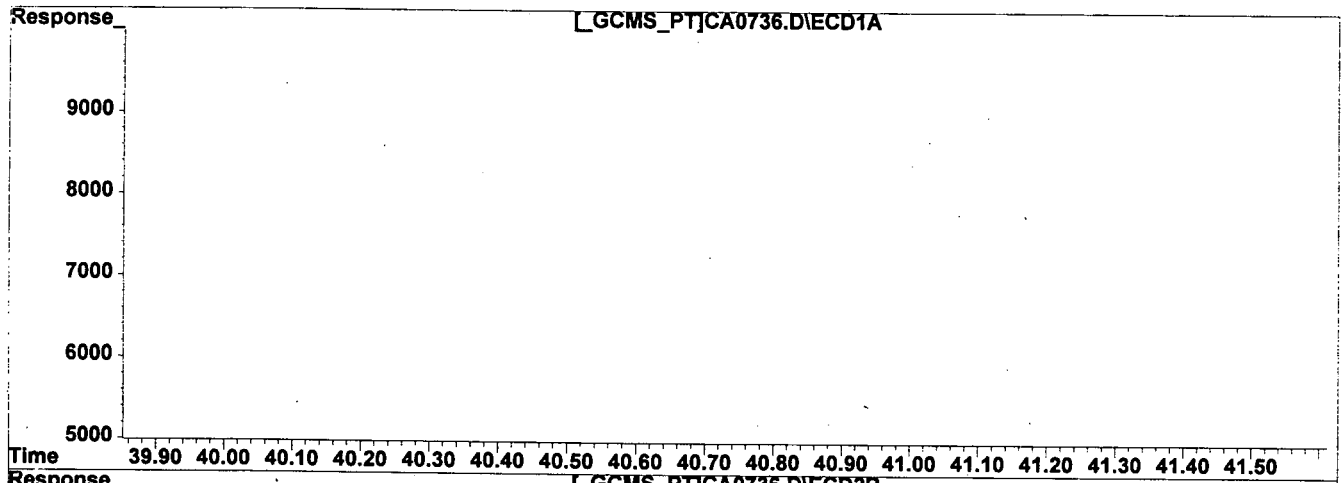


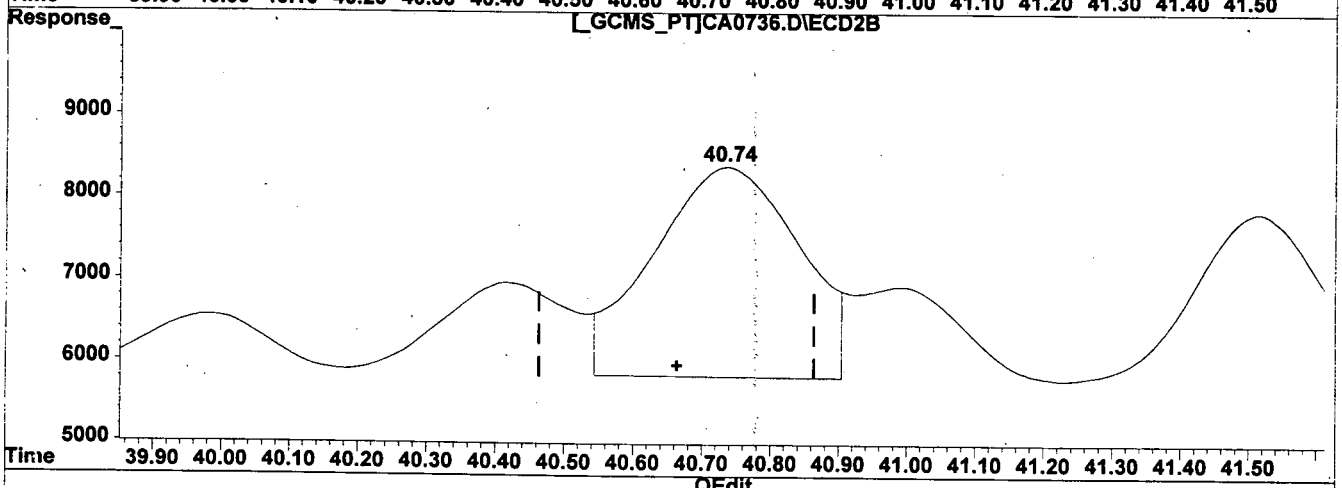
Quantitation Report

Signal #1 : I:\CA0736.D\ECD1A.CH
Signal #2 : I:\CA0736.D\ECD2B.CH
Acq On : 15 Jul 97 5:00
Sample : 266331
Misc : QPC7094
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 21 19:53 1997 Quant Results File: CLP2_3.RES

Vial: 18
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : V:\CLP2_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

34.79min 17.555ng/ml

response 436661

(22) Decachlorobiphenyl #2 (SA)

40.74min 36.273ng/ml m

response 379176

(+) = Expected Retention Time

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Instrument ID: 5890 3 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB-1701 ID: .53 (mm) Date(s) Analyzed: 07/07/97 07/08/97

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	10.07	10.08	10.08	10.08	10.03	10.13
beta-BHC	15.12	15.12	15.12	15.12	15.07	15.17
delta-BHC	16.36	16.36	16.36	16.36	16.31	16.41
gamma-BHC (Lindane)	11.76	11.77	11.77	11.77	11.72	11.82
Heptachlor	12.86	12.87	12.88	12.87	12.82	12.92
Aldrin	14.20	14.20	14.21	14.21	14.16	14.26
Heptachlor epoxide	17.41	17.41	17.42	17.41	17.34	17.48
Endosulfan I	18.82	18.82	18.83	18.83	18.76	18.90
Dieldrin	20.66	20.67	20.67	20.67	20.60	20.74
4,4'-DDE	19.96	19.96	19.96	19.96	19.89	20.03
Endrin	21.71	21.71	21.72	21.71	21.64	21.78
Endosulfan II	24.13	24.14	24.15	24.14	24.07	24.21
4,4'-DDD	23.93	23.93	23.94	23.93	23.86	24.00
Endosulfan Sulfate	27.78	27.78	27.78	27.78	27.71	27.85
4,4'-DDT	24.86	24.86	24.86	24.86	24.79	24.93
Methoxychlor	28.09	28.09	28.09	28.09	28.02	28.16
Endrin ketone	29.89	29.89	29.90	29.89	29.82	29.96
Endrin aldehyde	26.17	26.16	26.17	26.17	26.10	26.24
alpha-Chlordane	19.35	19.36	19.36	19.36	19.29	19.43
gamma-Chlordane	19.06	19.06	19.07	19.06	18.99	19.13
Tetrachloro-m-xylene	7.15	7.15	7.16	7.15	7.10	7.20
Decachlorobiphenyl	34.58	34.58	34.59	34.58	34.48	34.68

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are +- 0.05 minutes for all compounds that elute before Heptachlor epoxide, +-0.07 minutes for all other compounds, except +-0.10 minutes for Decachlorobiphenyl.

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Instrument ID: 5890 3 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB-608 ID: .53 (mm) Date(s) Analyzed: 07/07/97 07/08/97

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	10.67	10.68	10.68	10.68	10.63	10.73
beta-BHC	12.92	12.92	12.92	12.92	12.87	12.97
delta-BHC	14.78	14.78	14.79	14.78	14.73	14.83
gamma-BHC (Lindane)	12.55	12.55	12.56	12.55	12.50	12.60
Heptachlor	14.17	14.17	14.17	14.17	14.12	14.22
Aldrin	15.86	15.86	15.86	15.86	15.81	15.91
Heptachlor epoxide	18.88	18.88	18.89	18.88	18.81	18.95
Endosulfan I	20.77	20.77	20.78	20.77	20.70	20.84
Dieldrin	22.46	22.46	22.47	22.46	22.39	22.53
4,4'-DDE	22.14	22.14	22.15	22.14	22.07	22.21
Endrin	24.47	24.47	24.48	24.47	24.40	24.54
Endosulfan II	25.50	25.50	25.50	25.50	25.43	25.57
4,4'-DDD	25.23	25.23	25.24	25.23	25.16	25.30
Endosulfan Sulfate	28.02	28.03	28.03	28.03	27.96	28.10
4,4'-DDT	26.88	26.88	26.88	26.88	26.81	26.95
Methoxychlor	31.78	31.78	31.79	31.78	31.71	31.85
Endrin ketone	32.25	32.25	32.26	32.25	32.18	32.32
Endrin aldehyde	27.34	27.34	27.34	27.34	27.27	27.41
alpha-Chlordane	20.65	20.65	20.65	20.65	20.58	20.72
gamma-Chlordane	19.76	19.76	19.77	19.76	19.69	19.83
Tetrachloro-m-xylene	7.97	7.97	7.97	7.97	7.92	8.02
Decachlorobiphenyl	40.37	40.37	40.38	40.37	40.27	40.47

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are +- 0.05 minutes for all compounds that elute before Heptachlor epoxide, +-0.07 minutes for all other compounds, except +-0.10 minutes for Decachlorobiphenyl.

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Instrument ID: 5890 3 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB-1701 ID: .53 (mm) Date(s) Analyzed: 07/13/97 07/13/97

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	10.16	10.16	10.17	10.16	10.11	10.21
beta-BHC	15.23	15.23	15.23	15.23	15.18	15.28
delta-BHC	16.47	16.47	16.47	16.47	16.42	16.52
gamma-BHC (Lindane)	11.87	11.87	11.87	11.87	11.82	11.92
Heptachlor	12.98	12.98	12.98	12.98	12.93	13.03
Aldrin	14.31	14.32	14.32	14.32	14.27	14.37
Heptachlor epoxide	17.53	17.54	17.54	17.54	17.47	17.61
Endosulfan I	18.96	18.96	18.96	18.96	18.89	19.03
Dieldrin	20.80	20.80	20.80	20.80	20.73	20.87
4,4'-DDE	20.09	20.09	20.09	20.09	20.02	20.16
Endrin	21.85	21.85	21.85	21.85	21.78	21.92
Endosulfan II	24.28	24.28	24.29	24.28	24.21	24.35
4,4'-DDD	24.09	24.08	24.07	24.08	24.01	24.15
Endosulfan Sulfate	27.93	27.93	27.93	27.93	27.86	28.00
4,4'-DDT	25.01	25.01	25.00	25.01	24.94	25.08
Methoxychlor	28.25	28.24	28.23	28.24	28.17	28.31
Endrin ketone	30.05	30.05	30.05	30.05	29.98	30.12
Endrin aldehyde	26.31	26.31	26.31	26.31	26.24	26.38
alpha-Chlordane	19.48	19.48	19.49	19.48	19.41	19.55
gamma-Chlordane	19.19	19.19	19.19	19.19	19.12	19.26
Tetrachloro-m-xylene	7.22	7.22	7.22	7.22	7.17	7.27
Decachlorobiphenyl	34.78	34.78	34.79	34.79	34.69	34.89

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are +- 0.05 minutes for all compounds that elute before Heptachlor epoxide, +-0.07 minutes for all other compounds, except +-0.10 minutes for Decachlorobiphenyl.

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Instrument ID: 5890 3 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB-608 ID: .53 (mm) Date(s) Analyzed: 07/13/97 07/13/97

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	10.77	10.77	10.77	10.77	10.72	10.82
beta-BHC	13.02	13.02	13.02	13.02	12.97	13.07
delta-BHC	14.89	14.89	14.89	14.89	14.84	14.94
gamma-BHC (Lindane)	12.66	12.66	12.66	12.66	12.61	12.71
Heptachlor	14.28	14.28	14.28	14.28	14.23	14.33
Aldrin	15.98	15.98	15.98	15.98	15.93	16.03
Heptachlor epoxide	19.00	19.00	19.01	19.01	18.94	19.08
Endosulfan I	20.91	20.91	20.91	20.91	20.84	20.98
Dieldrin	22.60	22.61	22.60	22.60	22.53	22.67
4,4'-DDE	22.27	22.27	22.28	22.27	22.20	22.34
Endrin	24.62	24.62	24.62	24.62	24.55	24.69
Endosulfan II	25.65	25.65	25.65	25.65	25.58	25.72
4,4'-DDD	25.38	25.38	25.37	25.38	25.31	25.45
Endosulfan Sulfate	28.18	28.18	28.18	28.18	28.11	28.25
4,4'-DDT	27.03	27.03	27.02	27.03	26.96	27.10
Methoxychlor	31.94	31.94	31.93	31.94	31.87	32.01
Endrin ketone	32.41	32.41	32.42	32.41	32.34	32.48
Endrin aldehyde	27.49	27.49	27.49	27.49	27.42	27.56
alpha-Chlordane	20.78	20.78	20.78	20.78	20.71	20.85
gamma-Chlordane	19.89	19.89	19.89	19.89	19.82	19.96
Tetrachloro-m-xylene	8.04	8.04	8.03	8.04	7.99	8.09
Decachlorobiphenyl	40.66	40.66	40.66	40.66	40.56	40.76

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are +- 0.05 minutes for all compounds that elute before Heptachlor epoxide, +-0.07 minutes for all other compounds, except +-0.10 minutes for Decachlorobiphenyl.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Instrument ID: 5890 3 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB-1701 ID: .53 (mm) Date(s) Analyzed: 07/07/97 07/08/97

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	16411800	19112998	23865998	19796932	19.1
beta-BHC	11284600	12130850	11509774	11641742	3.8
delta-BHC	11808800	13578350	16849686	14078946	18.2
gamma-BHC (Lindane)	17258998	19611198	23212324	20027506	15.0
Heptachlor	26970998	27804348	27665148	27480164	1.6
Aldrin	20642198	20918948	23610210	21723786	7.5
Heptachlor epoxide	22446398	22970198	23621160	23012586	2.6
Endosulfan I	18465398	20315398	20416124	19732306	5.6
Dieldrin	17301498	18927824	20774924	19001416	9.1
4,4'-DDE	14712200	15935424	19046154	16564592	13.5
Endrin	14659000	15852200	17740542	16083914	9.7
Endosulfan II	11602300	14971474	16618344	14397372	17.8
4,4'-DDD	10074200	10734150	11646380	10818244	7.3
Endosulfan Sulfate	10689500	11416024	12842312	11649278	9.4
4,4'-DDT	8954700	8322975	10518562	9265412	12.2
Methoxychlor	6674460	7791695	8380200	7615451	11.4
Endrin ketone	14022300	14415350	16274574	14904074	8.1
Endrin aldehyde	11898600	14889674	14936818	13908364	12.5
alpha-Chlordane	23196398	23104248	25427598	23909414	5.5
gamma-Chlordane	24112998	22749348	23665148	23509164	3.0
Tetrachloro-m-xylene	20475998	21766798	21709386	21317394	3.4
Decachlorobiphenyl	26971698	26728898	24667498	26122698	4.8

Surrogate calibration factors are measured from Standard Mix A analyses.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Instrument ID: 5890 3 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB-608 ID: .53 (mm) Date(s) Analyzed: 07/07/97 07/08/97

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	6099800	6654450	7957112	6903787	13.8
beta-BHC	4001400	4180350	4026450	4069400	2.4
delta-BHC	5533600	5817300	7045550	6132150	13.1
gamma-BHC (Lindane)	6364600	6893200	7876287	7044696	10.9
Heptachlor	9295600	9425750	9140000	9287116	1.5
Aldrin	8833200	8105750	8138650	8359200	4.9
Heptachlor epoxide	11358000	8755300	8410124	9507808	17.0
Endosulfan I	9457400	8508300	7911262	8625654	9.0
Dieldrin	5826900	6819550	7077012	6574487	10.0
4,4'-DDE	8263200	7902775	7812268	7992748	3.0
Endrin	6546800	6783375	6944687	6758287	3.0
Endosulfan II	7362500	7555125	7507731	7475118	1.3
4,4'-DDD	4745800	4686050	4779325	4737058	1.0
Endosulfan Sulfate	8164700	7464400	6592969	7407356	10.6
4,4'-DDT	4766000	5201175	5593919	5187031	8.0
Methoxychlor	3442720	3529895	3200100	3390905	5.0
Endrin ketone	7185800	7327975	7513406	7342393	2.2
Endrin aldehyde	6911700	6880750	6191175	6661208	6.1
alpha-Chlordane	9911200	9354500	8813812	9359838	5.9
gamma-Chlordane	9874200	9207000	8544724	9208642	7.2
Tetrachloro-m-xylene	7685600	7545200	6910187	7380329	5.6
Decachlorobiphenyl	12082600	11069224	9547718	10899848	11.7

Surrogate calibration factors are measured from Standard Mix A analyses.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Instrument ID: 5890 3 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB-1701 ID: .53 (mm) Date(s) Analyzed: 07/13/97 07/13/97

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	14508200	17409348	22344710	18087420	21.9
beta-BHC	10016200	10211400	10057150	10094916	1.0
delta-BHC	9441200	10845100	13911900	11399400	20.1
gamma-BHC (Lindane)	15065200	17770948	21823636	18219928	18.7
Heptachlor	24007798	25997948	26633998	25546582	5.4
Aldrin	18693198	19189198	21492124	19791506	7.5
Heptachlor epoxide	20142198	20662948	21646274	20817140	3.7
Endosulfan I	16532600	18269048	19487836	18096494	8.2
Dieldrin	15584200	17616324	20088212	17762912	12.7
4,4'-DDE	12622400	14105250	16835930	14521194	14.7
Endrin	13318100	15519800	17362524	15400142	13.1
Endosulfan II	11192500	13975324	15984312	13717378	17.5
4,4'-DDD	10949400	8976374	10719988	10215254	10.6
Endosulfan Sulfate	8664600	9891674	11346088	9967454	13.5
4,4'-DDT	7085400	7755500	10584338	8475080	21.9
Methoxychlor	5017180	7078865	8052450	6716165	23.1
Endrin ketone	10222500	11929950	14004624	12052358	15.7
Endrin aldehyde	10445000	12293350	13896006	12211452	14.1
alpha-Chlordane	20860798	21654048	23257474	21924106	5.6
gamma-Chlordane	20334198	20644648	21432586	20803810	2.7
Tetrachloro-m-xylene	18413198	20233048	20869812	19838686	6.4
Decachlorobiphenyl	25651198	24873498	24179154	24901284	3.0

Surrogate calibration factors are measured from Standard Mix A analyses.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Instrument ID: 5890 3 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB-608 ID: .53 (mm) Date(s) Analyzed: 07/13/97 07/13/97

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	5595200	6167450	7385775	6382808	14.3
beta-BHC	3540200	3652850	3598050	3597033	1.6
delta-BHC	4644600	4858450	5756300	5086450	11.6
gamma-BHC (Lindane)	5674800	6363100	7336362	6458087	12.9
Heptachlor	8626000	8910350	8729874	8755408	1.6
Aldrin	7140000	7124000	7259737	7174579	1.0
Heptachlor epoxide	8605800	7935150	7510300	8017083	6.9
Endosulfan I	9655800	8333000	7542812	8510538	12.5
Dieldrin	6246200	6576125	6866394	6562906	4.7
4,4'-DDE	7410800	6922175	7133587	7155521	3.4
Endrin	6032500	6586800	6831069	6483456	6.3
Endosulfan II	7047100	7071150	6853319	6990523	1.7
4,4'-DDD	3818800	4128325	4383387	4110171	6.9
Endosulfan Sulfate	6606800	6866975	5648512	6374096	10.1
4,4'-DDT	4235200	4976175	5366175	4859183	11.8
Methoxychlor	3066940	3268645	3050202	3128596	3.9
Endrin ketone	6481800	6449700	6595756	6509085	1.2
Endrin aldehyde	6148500	6127400	5450150	5908683	6.7
alpha-Chlordane	9542200	8333200	7969475	8614958	9.6
gamma-Chlordane	8224800	7921400	7748787	7964996	3.0
Tetrachloro-m-xylene	7002800	7009500	6563162	6858487	3.7
Decachlorobiphenyl	10900900	10453324	9105506	10153244	9.2

Surrogate calibration factors are measured from Standard Mix A analyses.

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Instrument ID: 5890 3 Date(s) Analyzed: 07/07/97 07/07/97

GC Column: DB-1701 ID: .53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	.50	*1	17.93	17.86	18.00	189855
		*2	19.31	19.24	19.38	193141
		*3	22.52	22.45	22.59	378059
		*4	25.78	25.71	25.85	586515
		5				
Aroclor-1016	.10	*1	9.04	8.97	9.11	603639
		*2	10.46	10.39	10.53	1263809
		*3	12.52	12.45	12.59	2311999
		*4	13.57	13.50	13.64	654359
		5	15.22	15.15	15.28	1404939
Aroclor-1221	.20	*1	8.32	8.25	8.39	366754
		*2	8.82	8.75	8.89	266699
		*3	9.04	8.97	9.11	962194
		4				
		5				
Aroclor-1232	.10	*1	9.04	8.97	9.11	568009
		*2	10.45	10.38	10.52	489609
		*3	12.51	12.44	12.58	807169
		*4	15.21	15.14	15.28	921709
		5				
Aroclor-1242	.10	*1	9.04	8.97	9.11	580459
		*2	10.46	10.39	10.53	990969
		*3	12.52	12.45	12.59	1796729
		*4	13.56	13.49	13.63	508689
		5	15.21	15.14	15.28	1257109
Aroclor-1248	.10	*1	10.45	10.38	10.52	485389
		*2	12.51	12.44	12.58	1342529
		*3	15.21	15.14	15.28	1613139
		*4	15.67	15.60	15.74	845349
		5	16.73	16.66	16.80	530599
Aroclor-1254	.10	*1	17.14	17.07	17.21	1359929
		*2	18.10	18.03	18.17	1128109
		*3	20.34	20.27	20.41	1546689
		*4	21.68	21.61	21.75	929159
		5	22.32	22.25	22.39	733959
Aroclor-1260	.10	*1	20.37	20.30	20.44	762269
		*2	21.12	21.05	21.19	1254519
		*3	22.33	22.26	22.40	1472379
		*4	25.88	25.81	25.95	1226949
		5	27.39	27.32	27.46	2142539

* Denotes required peaks

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Instrument ID: 5890 3 Date(s) Analyzed: 07/07/97 07/07/97

GC Column: DB-608 ID: .53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	.50	*1	23.66	23.59	23.73	136883
		*2	25.72	25.65	25.79	216627
		*3	30.43	30.36	30.50	355143
		*4	32.19	32.12	32.26	216467
		5				
Aroclor-1016	.10	*1	10.50	10.43	10.57	203989
		*2	12.47	12.40	12.54	445049
		*3	14.29	14.22	14.36	881889
		*4	15.12	15.05	15.19	327939
		5	17.65	17.58	17.72	338749
Aroclor-1221	.20	*1	9.58	9.51	9.65	110639
		*2	10.21	10.14	10.28	82924
		*3	10.49	10.42	10.56	288119
		4				
		5				
Aroclor-1232	.10	*1	10.49	10.42	10.56	181089
		*2	12.46	12.39	12.53	183759
		*3	14.28	14.21	14.35	363859
		*4	15.11	15.04	15.18	104329
		5				
Aroclor-1242	.10	*1	10.49	10.42	10.56	174469
		*2	12.47	12.40	12.53	353939
		*3	14.29	14.22	14.36	712049
		*4	15.11	15.04	15.18	183149
		5	17.64	17.57	17.71	383669
Aroclor-1248	.10	*1	12.46	12.39	12.53	166679
		*2	14.28	14.21	14.35	568789
		*3	17.64	17.57	17.71	472479
		*4	19.02	18.95	19.09	501569
		5	20.87	20.80	20.94	355679
Aroclor-1254	.10	*1	19.79	19.72	19.86	517889
		*2	20.13	20.06	20.20	632369
		*3	21.62	21.55	21.69	321609
		*4	22.98	22.91	23.05	912889
		5	24.42	24.35	24.49	594049
Aroclor-1260	.10	*1	22.96	22.89	23.03	444299
		*2	23.95	23.88	24.02	626729
		*3	24.43	24.36	24.50	745279
		*4	27.00	26.93	27.07	586839
		5	29.74	29.67	29.81	1332189

* Denotes required peaks

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Instrument ID: 5890 3 Date(s) Analyzed: 07/12/97 07/13/97

GC Column: DB-1701 ID: .53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	.50	*1	18.07	18.00	18.14	177341
		*2	19.45	19.38	19.52	176205
		*3	22.66	22.59	22.73	329667
		*4	25.93	25.86	26.00	416109
		5				
Aroclor-1016	.10	*1	9.12	9.05	9.19	545139
		*2	10.55	10.48	10.62	1169279
		*3	12.63	12.56	12.70	2106339
		*4	13.68	13.61	13.75	580839
		5	15.33	15.26	15.40	1174809
Aroclor-1221	.20	*1	8.39	8.32	8.46	301614
		*2	8.90	8.83	8.97	246154
		*3	9.12	9.05	9.19	893219
		4				
		5				
Aroclor-1232	.10	*1	9.12	9.05	9.19	496039
		*2	10.55	10.48	10.62	446919
		*3	12.63	12.56	12.70	725149
		*4	15.33	15.26	15.40	736369
		5				
Aroclor-1242	.10	*1	9.12	9.05	9.19	464629
		*2	10.55	10.48	10.62	929139
		*3	12.63	12.56	12.70	1620719
		*4	13.68	13.61	13.75	461949
		5	15.33	15.26	15.40	1046929
Aroclor-1248	.10	*1	10.55	10.48	10.62	447029
		*2	12.63	12.56	12.70	1289479
		*3	15.33	15.26	15.40	1241379
		*4	15.80	15.73	15.87	767259
		5	16.87	16.80	16.94	457659
Aroclor-1254	.10	*1	17.27	17.20	17.34	1199269
		*2	18.23	18.16	18.30	1008779
		*3	20.49	20.42	20.56	1225559
		*4	21.26	21.19	21.33	604499
		5	22.48	22.41	22.55	605949
Aroclor-1260	.10	*1	20.50	20.43	20.57	612999
		*2	21.25	21.18	21.32	1175769
		*3	22.47	22.40	22.54	1385259
		*4	26.03	25.96	26.10	845939
		5	27.55	27.48	27.62	1923659

* Denotes required peaks

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Instrument ID: 5890 3 Date(s) Analyzed: 07/12/97 07/13/97

GC Column: DB-608 ID: .53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	.50	*1	23.36	23.29	23.43	172021
		*2	25.88	25.81	25.95	155043
		*3	30.60	30.53	30.67	271785
		*4	32.36	32.29	32.43	111173
		5				
Aroclor-1016	.10	*1	10.58	10.51	10.65	187409
		*2	12.56	12.49	12.63	406729
		*3	14.39	14.32	14.46	813569
		*4	15.22	15.15	15.29	246749
		5	17.76	17.69	17.83	255179
Aroclor-1221	.20	*1	9.66	9.59	9.73	75269
		*2	10.29	10.22	10.36	73599
		*3	10.58	10.51	10.65	267469
		4				
		5				
Aroclor-1232	.10	*1	10.58	10.51	10.65	163479
		*2	12.57	12.50	12.64	168989
		*3	14.40	14.33	14.47	314289
		*4	15.22	15.15	15.29	86979
		5				
Aroclor-1242	.10	*1	10.58	10.51	10.65	158529
		*2	12.56	12.49	12.63	327569
		*3	14.39	14.32	14.46	634089
		*4	15.22	15.15	15.29	174819
		5	17.76	17.69	17.83	228759
Aroclor-1248	.10	*1	12.56	12.49	12.63	151059
		*2	14.39	14.32	14.46	519989
		*3	17.76	17.69	17.83	290029
		*4	19.15	19.08	19.22	355889
		5	21.01	20.94	21.08	281779
Aroclor-1254	.10	*1	19.92	19.85	19.99	467619
		*2	20.27	20.20	20.34	550979
		*3	21.75	21.68	21.82	207149
		*4	23.12	23.05	23.19	891179
		5	24.57	24.50	24.64	388229
Aroclor-1260	.10	*1	23.09	23.02	23.16	359609
		*2	24.08	24.01	24.15	556069
		*3	24.56	24.49	24.63	664939
		*4	27.14	27.07	27.21	527819
		5	29.89	29.82	29.96	1118109

* Denotes required peaks

6G
PESTICIDE ANALYTE RESOLUTION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column (1): DB-1701 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): RESCO1 Lab Sample ID (1): RESC01

Date Analyzed (1): 07/07/97 Time Analyzed (1): 13:17

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.19	100.00
02	Endosulfan I	18.86	85.71
03	gamma-Chlordane	19.10	100.00
04	4,4'-DDE	19.98	100.00
05	Dieldrin	20.70	100.00
06	Endosulfan Sulfate	27.80	100.00
07	Methoxychlor	28.11	100.00
08	Decachlorobiphenyl	34.60	
09			

GC Column (2): DB-608 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): RESCO1 Lab Sample ID (2): RESC01

Date Analyzed (2): 07/07/97 Time Analyzed (2): 13:17

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.02	100.00
02	gamma-Chlordane	19.80	100.00
03	Endosulfan I	20.82	100.00
04	4,4'-DDE	22.18	100.00
05	Dieldrin	22.51	100.00
06	Endosulfan Sulfate	28.06	100.00
07	Methoxychlor	31.80	100.00
08	Endrin ketone	32.27	96.67
09	Decachlorobiphenyl	40.40	

6G

PESTICIDE ANALYTE RESOLUTION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column (1): DB-1701 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): RESCO1 Lab Sample ID (1): RESC01

Date Analyzed (1): 07/12/97 Time Analyzed (1): 20:03

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.22	100.00
02	Endosulfan I	18.94	88.89
03	gamma-Chlordane	19.17	100.00
04	4,4'-DDE	20.07	100.00
05	Dieldrin	20.79	100.00
06	Endosulfan Sulfate	27.91	94.44
07	Methoxychlor	28.23	100.00
08	Endrin ketone	30.03	100.00
09	Decachlorobiphenyl	34.77	

GC Column (2): DB-608 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): RESCO1 Lab Sample ID (2): RESC01

Date Analyzed (2): 07/12/97 Time Analyzed (2): 20:03

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.03	100.00
02	gamma-Chlordane	19.88	100.00
03	Endosulfan I	20.90	100.00
04	4,4'-DDE	22.26	100.00
05	Dieldrin	22.59	100.00
06	Endosulfan Sulfate	28.16	100.00
07	Methoxychlor	31.92	100.00
08	Endrin ketone	32.39	100.00
09	Decachlorobiphenyl	40.63	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column (1): DB-1701 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): PEM01 Lab Sample ID (1): PEM01

Date Analyzed (1): 07/07/97 Time Analyzed (1): 15:20

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.19	100.00
02	alpha-BHC	10.12	100.00
03	gamma-BHC (Lindane)	11.81	100.00
04	beta-BHC	15.15	100.00
05	Endrin	21.74	100.00
06	4,4'-DDT	24.88	100.00
07	Methoxychlor	28.10	100.00
08	Decachlorobiphenyl	34.60	

GC Column (2): DB-608 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): PEM01 Lab Sample ID (2): PEM01

Date Analyzed (2): 07/07/97 Time Analyzed (2): 15:20

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.02	100.00
02	alpha-BHC	10.73	100.00
03	gamma-BHC (Lindane)	12.61	100.00
04	beta-BHC	12.97	100.00
05	Endrin	24.51	100.00
06	4,4'-DDT	26.90	100.00
07	Methoxychlor	31.80	100.00
08	Decachlorobiphenyl	40.39	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column (1): DB-1701 ID: .53 (mm) Instrument ID (1): 5890 3

PA Sample No. (Standard 1): PEM02 Lab Sample ID (1): PEM02

Date Analyzed (1): 07/08/97 Time Analyzed (1): 14:20

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.16	100.00
02	alpha-BHC	10.08	100.00
03	gamma-BHC (Lindane)	11.78	100.00
04	beta-BHC	15.13	100.00
05	Endrin	21.72	100.00
06	4,4'-DDT	24.87	100.00
07	Methoxychlor	28.10	100.00
08	Decachlorobiphenyl	34.59	

GC Column (2): DB-608 ID: .53 (mm) Instrument ID (2): 5890 3

PA Sample No. (Standard 2): PEM02 Lab Sample ID (2): PEM02

Date Analyzed (2): 07/08/97 Time Analyzed (2): 14:20

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.98	100.00
02	alpha-BHC	10.69	100.00
03	gamma-BHC (Lindane)	12.57	100.00
04	beta-BHC	12.93	100.00
05	Endrin	24.48	100.00
06	4,4'-DDT	26.89	100.00
07	Methoxychlor	31.79	100.00
08	Decachlorobiphenyl	40.38	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column (1): DB-1701 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): PEM03 Lab Sample ID (1): PEM03

Date Analyzed (1): 07/09/97 Time Analyzed (1): 16:33

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.17	100.00
02	alpha-BHC	10.09	100.00
03	gamma-BHC (Lindane)	11.78	100.00
04	beta-BHC	15.13	100.00
05	Endrin	21.73	100.00
06	4,4'-DDT	24.89	100.00
07	Methoxychlor	28.12	100.00
08	Decachlorobiphenyl	34.62	

GC Column (2): DB-608 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): PEM03 Lab Sample ID (2): PEM03

Date Analyzed (2): 07/09/97 Time Analyzed (2): 16:33

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.98	100.00
02	alpha-BHC	10.69	100.00
03	gamma-BHC (Lindane)	12.57	100.00
04	beta-BHC	12.93	100.00
05	Endrin	24.50	100.00
06	4,4'-DDT	26.90	100.00
07	Methoxychlor	31.81	100.00
08	Decachlorobiphenyl	40.42	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column (1): DB-1701 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): PEM01 Lab Sample ID (1): PEM01

Date Analyzed (1): 07/12/97 Time Analyzed (1): 20:52

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.22	100.00
02	alpha-BHC	10.16	100.00
03	gamma-BHC (Lindane)	11.86	100.00
04	beta-BHC	15.22	100.00
05	Endrin	21.84	100.00
06	4,4'-DDT	24.99	100.00
07	Methoxychlor	28.23	100.00
08	Decachlorobiphenyl	34.77	

GC Column (2): DB-608 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): PEM01 Lab Sample ID (2): PEM01

Date Analyzed (2): 07/12/97 Time Analyzed (2): 20:52

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.03	100.00
02	alpha-BHC	10.76	100.00
03	gamma-BHC (Lindane)	12.65	100.00
04	beta-BHC	13.01	100.00
05	Endrin	24.60	100.00
06	4,4'-DDT	27.01	100.00
07	Methoxychlor	31.92	100.00
08	Decachlorobiphenyl	40.64	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column (1): DB-1701 ID: .53 (mm) Instrument ID (1): 5890 3

PA Sample No. (Standard 1): PEM02 Lab Sample ID (1): PEM02

Date Analyzed (1): 07/14/97 Time Analyzed (1): 13:56

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.23	100.00
02	alpha-BHC	10.17	100.00
03	gamma-BHC (Lindane)	11.88	100.00
04	beta-BHC	15.23	100.00
05	Endrin	21.87	100.00
06	4,4'-DDT	25.02	100.00
07	Methoxychlor	28.25	100.00
08	Decachlorobiphenyl	34.80	

GC Column (2): DB-608 ID: .53 (mm) Instrument ID (2): 5890 3

PA Sample No. (Standard 2): PEM02 Lab Sample ID (2): PEM02

Date Analyzed (2): 07/14/97 Time Analyzed (2): 13:56

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.05	100.00
02	alpha-BHC	10.78	100.00
03	gamma-BHC (Lindane)	12.67	100.00
04	beta-BHC	13.03	100.00
05	Endrin	24.63	100.00
06	4,4'-DDT	27.04	100.00
07	Methoxychlor	31.95	100.00
08	Decachlorobiphenyl	40.69	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column (1): DB-1701 ID: .53 (mm) Instrument ID (1): 5890 3

PA Sample No. (Standard 1): PEM03 Lab Sample ID (1): PEM03

Date Analyzed (1): 07/15/97 Time Analyzed (1): 12:58

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.23	100.00
02	alpha-BHC	10.18	100.00
03	gamma-BHC (Lindane)	11.89	100.00
04	beta-BHC	15.23	100.00
05	Endrin	21.87	100.00
06	4,4'-DDT	25.02	100.00
07	Methoxychlor	28.26	100.00
08	Decachlorobiphenyl	34.81	

GC Column (2): DB-608 ID: .53 (mm) Instrument ID (2): 5890 3

PA Sample No. (Standard 2): PEM03 Lab Sample ID (2): PEM03

Date Analyzed (2): 07/15/97 Time Analyzed (2): 12:58

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.05	100.00
02	alpha-BHC	10.79	100.00
03	gamma-BHC (Lindane)	12.68	100.00
04	beta-BHC	13.04	100.00
05	Endrin	24.64	100.00
06	4,4'-DDT	27.04	100.00
07	Methoxychlor	31.96	100.00
08	Decachlorobiphenyl	40.70	

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column (1): DB-1701 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): INDAM02 Lab Sample ID (1): INDAM02

Date Analyzed (1): 07/09/97 Time Analyzed (1): 02:56

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.16	100.00
02	alpha-BHC	10.08	100.00
03	gamma-BHC (Lindane)	11.78	100.00
04	Heptachlor	12.88	100.00
05	Endosulfan I	18.84	100.00
06	Dieldrin	20.68	100.00
07	Endrin	21.72	100.00
08	4,4'-DDD	23.95	100.00
09	4,4'-DDT	24.88	100.00
10	Methoxychlor	28.11	100.00
11	Decachlorobiphenyl	34.61	

GC Column (2): DB-608 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): INDAM02 Lab Sample ID (2): INDAM02

Date Analyzed (2): 07/09/97 Time Analyzed (2): 02:56

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.97	100.00
02	alpha-BHC	10.68	100.00
03	gamma-BHC (Lindane)	12.56	100.00
04	Heptachlor	14.18	100.00
05	Endosulfan I	20.78	100.00
06	Dieldrin	22.47	100.00
07	Endrin	24.48	100.00
08	4,4'-DDD	25.25	100.00
09	4,4'-DDT	26.89	100.00
10	Methoxychlor	31.80	100.00
11	Decachlorobiphenyl	40.40	

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column (1): DB-1701 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): INDAM04 Lab Sample ID (1): INDAM04

Date Analyzed (1): 07/10/97 Time Analyzed (1): 17:56

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.16	100.00
02	alpha-BHC	10.09	100.00
03	gamma-BHC (Lindane)	11.78	100.00
04	Heptachlor	12.88	100.00
05	Endosulfan I	18.84	100.00
06	Dieldrin	20.68	100.00
07	Endrin	21.73	100.00
08	4,4'-DDD	23.96	100.00
09	4,4'-DDT	24.88	100.00
10	Methoxychlor	28.12	100.00
11	Decachlorobiphenyl	34.61	

GC Column (2): DB-608 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): INDAM04 Lab Sample ID (2): INDAM04

Date Analyzed (2): 07/10/97 Time Analyzed (2): 17:56

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.98	100.00
02	alpha-BHC	10.68	100.00
03	gamma-BHC (Lindane)	12.56	100.00
04	Heptachlor	14.18	100.00
05	Endosulfan I	20.79	100.00
06	Dieldrin	22.48	100.00
07	Endrin	24.49	100.00
08	4,4'-DDD	25.25	100.00
09	4,4'-DDT	26.90	100.00
10	Methoxychlor	31.80	100.00
11	Decachlorobiphenyl	40.41	

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column (1): DB-1701 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): INDAM02 Lab Sample ID (1): INDAM02

Date Analyzed (1): 07/15/97 Time Analyzed (1): 03:23

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.22	100.00
02	alpha-BHC	10.17	100.00
03	gamma-BHC (Lindane)	11.88	100.00
04	Heptachlor	12.99	100.00
05	Endosulfan I	18.97	100.00
06	Dieldrin	20.81	100.00
07	Endrin	21.86	100.00
08	4,4'-DDD	24.08	100.00
09	4,4'-DDT	25.01	100.00
10	Methoxychlor	28.24	100.00
11	Decachlorobiphenyl	34.80	

GC Column (2): DB-608 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): INDAM02 Lab Sample ID (2): INDAM02

Date Analyzed (2): 07/15/97 Time Analyzed (2): 03:23

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.04	100.00
02	alpha-BHC	10.78	100.00
03	gamma-BHC (Lindane)	12.67	100.00
04	Heptachlor	14.29	100.00
05	Endosulfan I	20.92	100.00
06	Dieldrin	22.61	100.00
07	Endrin	24.63	100.00
08	4,4'-DDD	25.38	100.00
09	4,4'-DDT	27.03	100.00
10	Methoxychlor	31.95	100.00
11	Decachlorobiphenyl	40.68	

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column (1): DB-1701 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): INDAM03 Lab Sample ID (1): INDAM03

Date Analyzed (1): 07/16/97 Time Analyzed (1): 00:00

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.23	100.00
02	alpha-BHC	10.17	100.00
03	gamma-BHC (Lindane)	11.88	100.00
04	Heptachlor	12.99	100.00
05	Endosulfan I	18.97	100.00
06	Dieldrin	20.82	100.00
07	Endrin	21.87	100.00
08	4,4'-DDD	24.10	100.00
09	4,4'-DDT	25.03	100.00
10	Methoxychlor	28.26	100.00
11	Decachlorobiphenyl	34.81	

GC Column (2): DB-608 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): INDAM03 Lab Sample ID (2): INDAM03

Date Analyzed (2): 07/16/97 Time Analyzed (2): 00:00

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.04	100.00
02	alpha-BHC	10.78	100.00
03	gamma-BHC (Lindane)	12.67	100.00
04	Heptachlor	14.29	100.00
05	Endosulfan I	20.93	100.00
06	Dieldrin	22.62	100.00
07	Endrin	24.64	100.00
08	4,4'-DDD	25.40	100.00
09	4,4'-DDT	27.04	100.00
10	Methoxychlor	31.96	100.00
11	Decachlorobiphenyl	40.70	

6J
INDIVIDUAL STANDARD MIXTURE B

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column (1): DB-1701 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): INDBM02 Lab Sample ID (1): INDBM02

Date Analyzed (1): 07/09/97 Time Analyzed (1): 03:45

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.16	100.00
02	Aldrin	14.21	100.00
03	beta-BHC	15.13	100.00
04	delta-BHC	16.37	100.00
05	Heptachlor epoxide	17.42	100.00
06	gamma-Chlordane	19.07	100.00
07	alpha-Chlordane	19.37	100.00
08	4,4'-DDE	19.97	100.00
09	Endosulfan II	24.15	100.00
10	Endrin aldehyde	26.18	100.00
11	Endosulfan Sulfate	27.79	100.00
12	Endrin ketone	29.90	100.00
13	Decachlorobiphenyl	34.60	

GC Column (2): DB-608 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): INDBM02 Lab Sample ID (2): INDBM02

Date Analyzed (2): 07/09/97 Time Analyzed (2): 03:45

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.98	100.00
02	beta-BHC	12.93	100.00
03	delta-BHC	14.79	100.00
04	Aldrin	15.87	100.00
05	Heptachlor epoxide	18.89	100.00
06	gamma-Chlordane	19.77	98.00
07	alpha-Chlordane	20.66	100.00
08	4,4'-DDE	22.15	100.00
09	Endosulfan II	25.51	100.00
10	Endrin aldehyde	27.35	100.00
11	Endosulfan Sulfate	28.04	100.00
12	Endrin ketone	32.26	100.00
13	Decachlorobiphenyl	40.40	

6J
INDIVIDUAL STANDARD MIXTURE B

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column (1): DB-1701 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): INDBM04 Lab Sample ID (1): INDBM04

Date Analyzed (1): 07/10/97 Time Analyzed (1): 18:45

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.17	100.00
02	Aldrin	14.22	100.00
03	beta-BHC	15.13	100.00
04	delta-BHC	16.37	100.00
05	Heptachlor epoxide	17.42	100.00
06	gamma-Chlordane	19.08	100.00
07	alpha-Chlordane	19.37	100.00
08	4,4'-DDE	19.98	100.00
09	Endosulfan II	24.16	100.00
10	Endrin aldehyde	26.18	100.00
11	Endosulfan Sulfate	27.80	100.00
12	Endrin ketone	29.91	100.00
13	Decachlorobiphenyl	34.62	

GC Column (2): DB-608 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): INDBM04 Lab Sample ID (2): INDBM04

Date Analyzed (2): 07/10/97 Time Analyzed (2): 18:45

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.98	100.00
02	beta-BHC	12.93	100.00
03	delta-BHC	14.79	100.00
04	Aldrin	15.87	100.00
05	Heptachlor epoxide	18.89	100.00
06	gamma-Chlordane	19.77	98.00
07	alpha-Chlordane	20.66	100.00
08	4,4'-DDE	22.16	100.00
09	Endosulfan II	25.51	100.00
10	Endrin aldehyde	27.36	100.00
11	Endosulfan Sulfate	28.04	100.00
12	Endrin ketone	32.27	100.00
13	Decachlorobiphenyl	40.41	

6J
INDIVIDUAL STANDARD MIXTURE B

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column (1): DB-1701 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): INDBM02 Lab Sample ID (1): INDBM02

Date Analyzed (1): 07/15/97 Time Analyzed (1): 04:11

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.22	100.00
02	Aldrin	14.33	100.00
03	beta-BHC	15.23	100.00
04	delta-BHC	16.48	100.00
05	Heptachlor epoxide	17.54	100.00
06	gamma-Chlordane	19.20	100.00
07	alpha-Chlordane	19.49	100.00
08	4,4'-DDE	20.10	100.00
09	Endosulfan II	24.29	100.00
10	Endrin aldehyde	26.32	100.00
11	Endosulfan Sulfate	27.94	100.00
12	Endrin ketone	30.06	100.00
13	Decachlorobiphenyl	34.80	

GC Column (2): DB-608 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): INDBM02 Lab Sample ID (2): INDBM02

Date Analyzed (2): 07/15/97 Time Analyzed (2): 04:11

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.04	100.00
02	beta-BHC	13.03	100.00
03	delta-BHC	14.90	100.00
04	Aldrin	15.99	100.00
05	Heptachlor epoxide	19.02	100.00
06	gamma-Chlordane	19.90	98.00
07	alpha-Chlordane	20.79	100.00
08	4,4'-DDE	22.28	100.00
09	Endosulfan II	25.66	100.00
10	Endrin aldehyde	27.50	100.00
11	Endosulfan Sulfate	28.19	100.00
12	Endrin ketone	32.43	100.00
13	Decachlorobiphenyl	40.69	

6J
INDIVIDUAL STANDARD MIXTURE B

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column (1): DB-1701 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): INDBM03 Lab Sample ID (1): INDBM03

Date Analyzed (1): 07/16/97 Time Analyzed (1): 00:49

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.24	100.00
02	Aldrin	14.34	100.00
03	beta-BHC	15.24	100.00
04	delta-BHC	16.49	100.00
05	Heptachlor epoxide	17.55	100.00
06	gamma-Chlordane	19.21	100.00
07	alpha-Chlordane	19.50	100.00
08	4,4'-DDE	20.11	100.00
09	Endosulfan II	24.30	100.00
10	Endrin aldehyde	26.33	100.00
11	Endosulfan Sulfate	27.95	100.00
12	Endrin ketone	30.07	100.00
13	Decachlorobiphenyl	34.82	

GC Column (2): DB-608 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): INDBM03 Lab Sample ID (2): INDBM03

Date Analyzed (2): 07/16/97 Time Analyzed (2): 00:49

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.05	100.00
02	beta-BHC	13.04	100.00
03	delta-BHC	14.91	100.00
04	Aldrin	16.00	100.00
05	Heptachlor epoxide	19.03	100.00
06	gamma-Chlordane	19.91	98.00
07	alpha-Chlordane	20.80	100.00
08	4,4'-DDE	22.30	100.00
09	Endosulfan II	25.67	100.00
10	Endrin aldehyde	27.51	100.00
11	Endosulfan Sulfate	28.20	100.00
12	Endrin ketone	32.44	100.00
13	Decachlorobiphenyl	40.70	

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-1701 ID: .53 (mm) Init. Calib. Date(s): 07/07/97 07/08/97

EPA Sample No.(PIBLK): _____ Date Analyzed : _____

LAB Sample ID (PIBLK): _____ Time Analyzed : _____

EPA Sample No.(PEM): PEM01 Date Analyzed : 07/07/97

LAB Sample ID (PEM): PEM01 Time Analyzed : 15:20

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	10.12	10.03	10.13	.009	.010	-10.0
beta-BHC	15.15	15.07	15.17	.010	.010	.0
gamma-BHC (Lindane)	11.81	11.72	11.82	.008	.010	-20.0
Endrin	21.74	21.64	21.78	.054	.050	8.0
4,4'-DDT	24.88	24.79	24.93	.115	.100	15.0
Methoxychlor	28.10	28.02	28.16	.295	.250	18.0

4,4'-DDT % breakdown (1): 3.89 Endrin % breakdown (1): .00

Combined % breakdown (1): 3.89

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-608 ID: .53 (mm) Init. Calib. Date(s): 07/07/97 07/08/97

EPA Sample No.(PIBLK): _____ Date Analyzed : _____

LAB Sample ID (PIBLK): _____ Time Analyzed : _____

EPA Sample No.(PEM): PEM01 Date Analyzed : 07/07/97

LAB Sample ID (PEM): PEM01 Time Analyzed : 15:20

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	10.73	10.63	10.73	.009	.010	-10.0
beta-BHC	12.97	12.87	12.97	.010	.010	.0
gamma-BHC (Lindane)	12.61	12.50	12.60	.009	.010	-10.0
Endrin	24.51	24.40	24.54	.056	.050	12.0
4,4'-DDT	26.90	26.81	26.95	.111	.100	11.0
Methoxychlor	31.80	31.71	31.85	.265	.250	6.0

4,4'-DDT % breakdown (1): .00 Endrin % breakdown (1): 3.25

Combined % breakdown (1): 3.25

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-1701 ID: .53 (mm) Init. Calib. Date(s): 07/07/97 07/08/97

EPA Sample No.(PIBLK): PIBLK01 Date Analyzed : 07/08/97

LAB Sample ID (PIBLK): PIBLK01 Time Analyzed : 13:31

EPA Sample No.(PEM): PEM02 Date Analyzed : 07/08/97

LAB Sample ID (PEM): PEM02 Time Analyzed : 14:20

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	10.08	10.03	10.13	.009	.010	-10.0
beta-BHC	15.13	15.07	15.17	.010	.010	.0
gamma-BHC (Lindane)	11.78	11.72	11.82	.009	.010	-10.0
Endrin	21.72	21.64	21.78	.044	.050	-12.0
4,4'-DDT	24.87	24.79	24.93	.120	.100	20.0
Methoxychlor	28.10	28.02	28.16	.252	.250	.8

4,4'-DDT % breakdown (1): 5.58 Endrin % breakdown (1): 2.18

Combined % breakdown (1): 7.76

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-608 ID: .53 (mm) Init. Calib. Date(s): 07/07/97 07/08/97

EPA Sample No.(PIBLK): PIBLK01 Date Analyzed : 07/08/97

LAB Sample ID (PIBLK): PIBLK01 Time Analyzed : 13:31

EPA Sample No.(PEM): PEM02 Date Analyzed : 07/08/97

LAB Sample ID (PEM): PEM02 Time Analyzed : 14:20

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	10.69	10.63	10.73	.009	.010	-10.0
beta-BHC	12.93	12.87	12.97	.011	.010	10.0
gamma-BHC (Lindane)	12.57	12.50	12.60	.009	.010	-10.0
Endrin	24.48	24.40	24.54	.048	.050	-4.0
4,4'-DDT	26.89	26.81	26.95	.105	.100	5.0
Methoxychlor	31.79	31.71	31.85	.248	.250	-.8

4,4'-DDT % breakdown (1): 6.67 Endrin % breakdown (1): 2.14

Combined % breakdown (1): 8.81

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-1701 ID: .53 (mm) Init. Calib. Date(s): 07/07/97 07/08/97

EPA Sample No.(PIBLK): PIBLK03 Date Analyzed : 07/09/97

LAB Sample ID (PIBLK): PIBLK03 Time Analyzed : 15:45

EPA Sample No.(PEM): PEM03 Date Analyzed : 07/09/97

LAB Sample ID (PEM): PEM03 Time Analyzed : 16:33

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	10.09	10.03	10.13	.009	.010	-10.0
beta-BHC	15.13	15.07	15.17	.010	.010	.0
gamma-BHC (Lindane)	11.78	11.72	11.82	.009	.010	-10.0
Endrin	21.73	21.64	21.78	.045	.050	-10.0
4,4'-DDT	24.89	24.79	24.93	.120	.100	20.0
Methoxychlor	28.12	28.02	28.16	.235	.250	-6.0

4,4'-DDT % breakdown (1): .00 Endrin % breakdown (1): .00

Combined % breakdown (1): .00

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-608 ID: .53 (mm) Init. Calib. Date(s): 07/07/97 07/08/97

EPA Sample No.(PIBLK): PIBLK03 Date Analyzed : 07/09/97

LAB Sample ID (PIBLK): PIBLK03 Time Analyzed : 15:45

EPA Sample No.(PEM): PEM03 Date Analyzed : 07/09/97

LAB Sample ID (PEM): PEM03 Time Analyzed : 16:33

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	10.69	10.63	10.73	.009	.010	-10.0
beta-BHC	12.93	12.87	12.97	.009	.010	-10.0
gamma-BHC (Lindane)	12.57	12.50	12.60	.009	.010	-10.0
Endrin	24.50	24.40	24.54	.047	.050	-6.0
4,4'-DDT	26.90	26.81	26.95	.104	.100	4.0
Methoxychlor	31.81	31.71	31.85	.250	.250	.0

4,4'-DDT % breakdown (1): 6.59 Endrin % breakdown (1): 7.64

Combined % breakdown (1): 14.23

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-1701 ID: .53 (mm) Init. Calib. Date(s): 07/12/97 07/13/97

EPA Sample No.(PIBLK): _____ Date Analyzed : _____

LAB Sample ID (PIBLK): _____ Time Analyzed : _____

EPA Sample No.(PEM): PEM01 Date Analyzed : 07/12/97

LAB Sample ID (PEM): PEM01 Time Analyzed : 20:52

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	10.16	10.11	10.21	.009	.010	-10.0
beta-BHC	15.22	15.18	15.28	.009	.010	-10.0
gamma-BHC (Lindane)	11.86	11.82	11.92	.009	.010	-20.0
Endrin	21.84	21.78	21.92	.046	.050	-8.0
4,4'-DDT	24.99	24.94	25.08	.124	.100	24.0
Methoxychlor	28.23	28.17	28.31	.267	.250	6.8

4,4'-DDT % breakdown (1): 6.84 Endrin % breakdown (1): .00

Combined % breakdown (1): 6.84

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-608 ID: .53 (mm) Init. Calib. Date(s): 07/12/97 07/13/97

EPA Sample No.(PIBLK): _____ Date Analyzed : _____

LAB Sample ID (PIBLK): _____ Time Analyzed : _____

EPA Sample No.(PEM): PEM01 Date Analyzed : 07/12/97

LAB Sample ID (PEM): PEM01 Time Analyzed : 20:52

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	10.76	10.72	10.82	.009	.010	-10.0
beta-BHC	13.01	12.97	13.07	.010	.010	.0
gamma-BHC (Lindane)	12.65	12.61	12.71	.009	.010	-10.0
Endrin	24.60	24.55	24.69	.048	.050	-4.0
4,4'-DDT	27.01	26.96	27.10	.101	.100	1.0
Methoxychlor	31.92	31.87	32.01	.240	.250	-4.0

4,4'-DDT % breakdown (1): 6.29 Endrin % breakdown (1): .00

Combined % breakdown (1): 6.29

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-1701 ID: .53 (mm) Init. Calib. Date(s): 07/12/97 07/13/97

EPA Sample No.(PIBLK): PIBLK01 Date Analyzed : 07/14/97

LAB Sample ID (PIBLK): PIBLK01 Time Analyzed : 13:07

EPA Sample No.(PEM): PEM02 Date Analyzed : 07/14/97

LAB Sample ID (PEM): PEM02 Time Analyzed : 13:56

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	10.17	10.11	10.21	.009	.010	-10.0
beta-BHC	15.23	15.18	15.28	.009	.010	-10.0
gamma-BHC (Lindane)	11.88	11.82	11.92	.009	.010	-10.0
Endrin	21.87	21.78	21.92	.047	.050	-6.0
4,4'-DDT	25.02	24.94	25.08	.124	.100	24.0
Methoxychlor	28.25	28.17	28.31	.281	.250	12.4

4,4'-DDT % breakdown (1): 5.81 Endrin % breakdown (1): .00

Combined % breakdown (1): .00

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-608 ID: .53 (mm) Init. Calib. Date(s): 07/12/97 07/13/97

EPA Sample No.(PIBLK): PIBLK01 Date Analyzed : 07/14/97

LAB Sample ID (PIBLK): PIBLK01 Time Analyzed : 13:07

EPA Sample No.(PEM): PEM02 Date Analyzed : 07/14/97

LAB Sample ID (PEM): PEM02 Time Analyzed : 13:56

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	10.78	10.72	10.82	.009	.010	-10.0
beta-BHC	13.03	12.97	13.07	.010	.010	.0
gamma-BHC (Lindane)	12.67	12.61	12.71	.009	.010	-10.0
Endrin	24.63	24.55	24.69	.047	.050	-6.0
4,4'-DDT	27.04	26.96	27.10	.108	.100	8.0
Methoxychlor	31.95	31.87	32.01	.246	.250	-1.6

4,4'-DDT % breakdown (1): 5.43 Endrin % breakdown (1): .00

Combined % breakdown (1): 5.43

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-1701 ID: .53 (mm) Init. Calib. Date(s): 07/12/97 07/13/97

EPA Sample No.(PIBLK): PIBLK03 Date Analyzed : 07/15/97

LAB Sample ID (PIBLK): PIBLK03 Time Analyzed : 12:09

EPA Sample No.(PEM): PEM03 Date Analyzed : 07/15/97

LAB Sample ID (PEM): PEM03 Time Analyzed : 12:58

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	10.18	10.11	10.21	.011	.010	10.0
beta-BHC	15.23	15.18	15.28	.012	.010	20.0
gamma-BHC (Lindane)	11.89	11.82	11.92	.011	.010	10.0
Endrin	21.87	21.78	21.92	.056	.050	12.0
4,4'-DDT	25.02	24.94	25.08	.123	.100	23.0
Methoxychlor	28.26	28.17	28.31	.306	.250	22.4

4,4'-DDT % breakdown (1): 3.31 Endrin % breakdown (1): .00

Combined % breakdown (1): 3.31

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-608 ID: .53 (mm) Init. Calib. Date(s): 07/12/97 07/13/97

EPA Sample No.(PIBLK): PIBLK03 Date Analyzed : 07/15/97

LAB Sample ID (PIBLK): PIBLK03 Time Analyzed : 12:09

EPA Sample No.(PEM): PEM03 Date Analyzed : 07/15/97

LAB Sample ID (PEM): PEM03 Time Analyzed : 12:58

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	10.79	10.72	10.82	.011	.010	10.0
beta-BHC	13.04	12.97	13.07	.012	.010	20.0
gamma-BHC (Lindane)	12.68	12.61	12.71	.011	.010	10.0
Endrin	24.64	24.55	24.69	.055	.050	10.0
4,4'-DDT	27.04	26.96	27.10	.125	.100	25.0
Methoxychlor	31.96	31.87	32.01	.285	.250	14.0

4,4'-DDT % breakdown (1): 2.89 Endrin % breakdown (1): .00

Combined % breakdown (1): 2.89

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-1701 ID: .53 (mm) Init. Calib. Date(s): 07/07/97 07/08/97

EPA Sample No.(PIBLK): PIBLK02 Date Analyzed : 07/09/97

LAB Sample ID (PIBLK): PIBLK02 Time Analyzed : 02:08

EPA Sample No.(INDA): INDAM02 Date Analyzed : 07/09/97

LAB Sample ID (INDA): INDAM02 Time Analyzed : 02:56

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	10.08	10.03	10.13	.020	.020	.0
gamma-BHC (Lindane)	11.78	11.72	11.82	.020	.020	.0
Heptachlor	12.88	12.82	12.92	.020	.020	.0
Endosulfan I	18.84	18.76	18.90	.019	.020	-5.0
Dieldrin	20.68	20.60	20.74	.039	.040	-2.5
Endrin	21.72	21.64	21.78	.039	.040	-2.5
4,4'-DDD	23.95	23.86	24.00	.039	.040	-2.5
4,4'-DDT	24.88	24.79	24.93	.036	.040	-10.0
Methoxychlor	28.11	28.02	28.16	.181	.200	-9.5
Tetrachloro-m-xylene	7.16	7.10	7.20	.020	.020	.0
Decachlorobiphenyl	34.61	34.48	34.68	.037	.040	-7.5

EPA Sample No.(INDB): INDBM02 Date Analyzed : 07/09/97

LAB Sample ID (INDB): INDBM02 Time Analyzed : 03:45

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	15.13	15.07	15.17	.019	.020	-5.0
delta-BHC	16.37	16.31	16.41	.019	.020	-5.0
Aldrin	14.21	14.16	14.26	.019	.020	-5.0
Heptachlor epoxide	17.42	17.34	17.48	.019	.020	-5.0
4,4'-DDE	19.97	19.89	20.03	.040	.040	.0
Endosulfan II	24.15	24.07	24.21	.038	.040	-5.0
Endosulfan Sulfate	27.79	27.71	27.85	.037	.040	-7.5
Endrin ketone	29.90	29.82	29.96	.036	.040	-10.0
Endrin aldehyde	26.18	26.10	26.24	.037	.040	-7.5
alpha-Chlordane	19.37	19.29	19.43	.019	.020	-5.0
gamma-Chlordane	19.07	18.99	19.13	.019	.020	-5.0
Tetrachloro-m-xylene	7.16	7.10	7.20	.020	.020	.0
Decachlorobiphenyl	34.60	34.48	34.68	.039	.040	-2.5

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-608 ID: .53 (mm) Init. Calib. Date(s): 07/07/97 07/08/97

EPA Sample No.(PIBLK): PIBLK02 Date Analyzed : 07/09/97

LAB Sample ID (PIBLK): PIBLK02 Time Analyzed : 02:08

EPA Sample No.(INDA): INDAM02 Date Analyzed : 07/09/97

LAB Sample ID (INDA): INDAM02 Time Analyzed : 02:56

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	10.68	10.63	10.73	.020	.020	.0
gamma-BHC (Lindane)	12.56	12.50	12.60	.020	.020	.0
Heptachlor	14.18	14.12	14.22	.020	.020	.0
Endosulfan I	20.78	20.70	20.84	.020	.020	.0
Dieldrin	22.47	22.39	22.53	.040	.040	.0
Endrin	24.48	24.40	24.54	.040	.040	.0
4,4'-DDD	25.25	25.16	25.30	.039	.040	-2.5
4,4'-DDT	26.89	26.81	26.95	.039	.040	-2.5
Methoxychlor	31.80	31.71	31.85	.193	.200	-3.5
Tetrachloro-m-xylene	7.97	7.92	8.02	.020	.020	.0
Decachlorobiphenyl	40.40	40.27	40.47	.040	.040	.0

EPA Sample No.(INDB): INDBM02 Date Analyzed : 07/09/97

LAB Sample ID (INDB): INDBM02 Time Analyzed : 03:45

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	12.93	12.87	12.97	.019	.020	-5.0
delta-BHC	14.79	14.73	14.83	.019	.020	-5.0
Aldrin	15.87	15.81	15.91	.018	.020	-10.0
Heptachlor epoxide	18.89	18.81	18.95	.020	.020	.0
4,4'-DDE	22.15	22.07	22.21	.036	.040	-10.0
Endosulfan II	25.51	25.43	25.57	.039	.040	-2.5
Endosulfan Sulfate	28.04	27.96	28.10	.037	.040	-7.5
Endrin ketone	32.26	32.18	32.32	.038	.040	-5.0
Endrin aldehyde	27.35	27.27	27.41	.039	.040	-2.5
alpha-Chlordane	20.66	20.58	20.72	.018	.020	-10.0
gamma-Chlordane	19.77	19.69	19.83	.019	.020	-5.0
Tetrachloro-m-xylene	7.98	7.92	8.02	.019	.020	-5.0
Decachlorobiphenyl	40.40	40.27	40.47	.039	.040	-2.5

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-1701 ID: .53 (mm) Init. Calib. Date(s): 07/07/97 07/08/97

EPA Sample No.(PIBLK): PIBLK05 Date Analyzed : 07/10/97

LAB Sample ID (PIBLK): PIBLK05 Time Analyzed : 17:07

EPA Sample No.(INDA): INDAM04 Date Analyzed : 07/10/97

LAB Sample ID (INDA): INDAM04 Time Analyzed : 17:56

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	10.09	10.03	10.13	.019	.020	-5.0
gamma-BHC (Lindane)	11.78	11.72	11.82	.019	.020	-5.0
Heptachlor	12.88	12.82	12.92	.018	.020	-10.0
Endosulfan I	18.84	18.76	18.90	.018	.020	-10.0
Dieldrin	20.68	20.60	20.74	.036	.040	-10.0
Endrin	21.73	21.64	21.78	.035	.040	-12.5
4,4'-DDD	23.96	23.86	24.00	.034	.040	-15.0
4,4'-DDT	24.88	24.79	24.93	.032	.040	-20.0
Methoxychlor	28.12	28.02	28.16	.164	.200	-18.0
Tetrachloro-m-xylene	7.16	7.10	7.20	.019	.020	-5.0
Decachlorobiphenyl	34.61	34.48	34.68	.035	.040	-12.5

EPA Sample No.(INDB): INDBM04 Date Analyzed : 07/10/97

LAB Sample ID (INDB): INDBM04 Time Analyzed : 18:45

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	15.13	15.07	15.17	.017	.020	-15.0
delta-BHC	16.37	16.31	16.41	.017	.020	-15.0
Aldrin	14.22	14.16	14.26	.019	.020	-5.0
Heptachlor epoxide	17.42	17.34	17.48	.018	.020	-10.0
4,4'-DDE	19.98	19.89	20.03	.031	.040	-22.5
Endosulfan II	24.16	24.07	24.21	.037	.040	-7.5
Endosulfan Sulfate	27.80	27.71	27.85	.035	.040	-12.5
Endrin ketone	29.91	29.82	29.96	.035	.040	-12.5
Endrin aldehyde	26.18	26.10	26.24	.037	.040	-7.5
alpha-Chlordane	19.37	19.29	19.43	.018	.020	-10.0
gamma-Chlordane	19.08	18.99	19.13	.018	.020	-10.0
Tetrachloro-m-xylene	7.17	7.10	7.20	.019	.020	-5.0
Decachlorobiphenyl	34.62	34.48	34.68	.035	.040	-12.5

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-608 ID: .53 (mm) Init. Calib. Date(s): 07/07/97 07/08/97

EPA Sample No.(PIBLK): PIBLK05 Date Analyzed : 07/10/97

LAB Sample ID (PIBLK): PIBLK05 Time Analyzed : 17:07

EPA Sample No.(INDA): INDAM04 Date Analyzed : 07/10/97

LAB Sample ID (INDA): INDAM04 Time Analyzed : 17:56

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	10.68	10.63	10.73	.019	.020	-5.0
gamma-BHC (Lindane)	12.56	12.50	12.60	.019	.020	-5.0
Heptachlor	14.18	14.12	14.22	.019	.020	-5.0
Endosulfan I	20.79	20.70	20.84	.019	.020	-5.0
Dieldrin	22.48	22.39	22.53	.039	.040	-2.5
Endrin	24.49	24.40	24.54	.037	.040	-7.5
4,4'-DDD	25.25	25.16	25.30	.036	.040	-10.0
4,4'-DDT	26.90	26.81	26.95	.037	.040	-7.5
Methoxychlor	31.80	31.71	31.85	.168	.200	-16.0
Tetrachloro-m-xylene	7.98	7.92	8.02	.019	.020	-5.0
Decachlorobiphenyl	40.41	40.27	40.47	.037	.040	-7.5

EPA Sample No.(INDB): INDBM04 Date Analyzed : 07/10/97

LAB Sample ID (INDB): INDBM04 Time Analyzed : 18:45

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	12.93	12.87	12.97	.018	.020	-10.0
delta-BHC	14.79	14.73	14.83	.018	.020	-10.0
Aldrin	15.87	15.81	15.91	.018	.020	-10.0
Heptachlor epoxide	18.89	18.81	18.95	.020	.020	.0
4,4'-DDE	22.16	22.07	22.21	.036	.040	-10.0
Endosulfan II	25.51	25.43	25.57	.037	.040	-7.5
Endosulfan Sulfate	28.04	27.96	28.10	.035	.040	-12.5
Endrin ketone	32.27	32.18	32.32	.037	.040	-7.5
Endrin aldehyde	27.36	27.27	27.41	.037	.040	-7.5
alpha-Chlordane	20.66	20.58	20.72	.018	.020	-10.0
gamma-Chlordane	19.77	19.69	19.83	.018	.020	-10.0
Tetrachloro-m-xylene	7.98	7.92	8.02	.019	.020	-5.0
Decachlorobiphenyl	40.41	40.27	40.47	.038	.040	-5.0

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-1701 ID: .53 (mm) Init. Calib. Date(s): 07/12/97 07/13/97

EPA Sample No.(PIBLK): PIBLK02 Date Analyzed : 07/15/97

LAB Sample ID (PIBLK): PIBLK02 Time Analyzed : 02:34

EPA Sample No.(INDA): INDAM02 Date Analyzed : 07/15/97

LAB Sample ID (INDA): INDAM02 Time Analyzed : 03:23

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	10.17	10.11	10.21	.022	.020	10.0
gamma-BHC (Lindane)	11.88	11.82	11.92	.022	.020	10.0
Heptachlor	12.99	12.93	13.03	.022	.020	10.0
Endosulfan I	18.97	18.89	19.03	.021	.020	5.0
Dieldrin	20.81	20.73	20.87	.042	.040	5.0
Endrin	21.86	21.78	21.92	.041	.040	2.5
4,4'-DDD	24.08	24.01	24.15	.043	.040	7.5
4,4'-DDT	25.01	24.94	25.08	.046	.040	15.0
Methoxychlor	28.24	28.17	28.31	.230	.200	15.0
Tetrachloro-m-xylene	7.22	7.17	7.27	.022	.020	10.0
Decachlorobiphenyl	34.80	34.69	34.89	.043	.040	7.5

EPA Sample No.(INDB): INDBM02 Date Analyzed : 07/15/97

LAB Sample ID (INDB): INDBM02 Time Analyzed : 04:11

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	15.23	15.18	15.28	.021	.020	5.0
delta-BHC	16.48	16.42	16.52	.023	.020	15.0
Aldrin	14.33	14.27	14.37	.022	.020	10.0
Heptachlor epoxide	17.54	17.47	17.61	.022	.020	10.0
4,4'-DDE	20.10	20.02	20.16	.040	.040	.0
Endosulfan II	24.29	24.21	24.35	.043	.040	7.5
Endosulfan Sulfate	27.94	27.86	28.00	.044	.040	10.0
Endrin ketone	30.06	29.98	30.12	.045	.040	12.5
Endrin aldehyde	26.32	26.24	26.38	.041	.040	2.5
alpha-Chlordane	19.49	19.41	19.55	.021	.020	5.0
gamma-Chlordane	19.20	19.12	19.26	.021	.020	5.0
Tetrachloro-m-xylene	7.22	7.17	7.27	.022	.020	10.0
Decachlorobiphenyl	34.80	34.69	34.89	.042	.040	5.0

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-608 ID: .53 (mm) Init. Calib. Date(s): 07/12/97 07/13/97

EPA Sample No.(PIBLK): PIBLK02 Date Analyzed : 07/15/97

LAB Sample ID (PIBLK): PIBLK02 Time Analyzed : 02:34

EPA Sample No.(INDA): INDAM02 Date Analyzed : 07/15/97

LAB Sample ID (INDA): INDAM02 Time Analyzed : 03:23

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	10.78	10.72	10.82	.021	.020	5.0
gamma-BHC (Lindane)	12.67	12.61	12.71	.021	.020	5.0
Heptachlor	14.29	14.23	14.33	.021	.020	5.0
Endosulfan I	20.92	20.84	20.98	.020	.020	.0
Dieldrin	22.61	22.53	22.67	.041	.040	2.5
Endrin	24.63	24.55	24.69	.040	.040	.0
4,4'-DDD	25.38	25.31	25.45	.041	.040	2.5
4,4'-DDT	27.03	26.96	27.10	.043	.040	7.5
Methoxychlor	31.95	31.87	32.01	.208	.200	4.0
Tetrachloro-m-xylene	8.04	7.99	8.09	.022	.020	10.0
Decachlorobiphenyl	40.68	40.56	40.76	.037	.040	-7.5

EPA Sample No.(INDB): INDBM02 Date Analyzed : 07/15/97

LAB Sample ID (INDB): INDBM02 Time Analyzed : 04:11

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	13.03	12.97	13.07	.021	.020	5.0
delta-BHC	14.90	14.84	14.94	.022	.020	10.0
Aldrin	15.99	15.93	16.03	.021	.020	5.0
Heptachlor epoxide	19.02	18.94	19.08	.020	.020	.0
4,4'-DDE	22.28	22.20	22.34	.041	.040	2.5
Endosulfan II	25.66	25.58	25.72	.040	.040	.0
Endosulfan Sulfate	28.19	28.11	28.25	.038	.040	-5.0
Endrin ketone	32.43	32.34	32.48	.041	.040	2.5
Endrin aldehyde	27.50	27.42	27.56	.040	.040	.0
alpha-Chlordane	20.79	20.71	20.85	.020	.020	.0
gamma-Chlordane	19.90	19.82	19.96	.021	.020	5.0
Tetrachloro-m-xylene	8.04	7.99	8.09	.022	.020	10.0
Decachlorobiphenyl	40.69	40.56	40.76	.038	.040	-5.0

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-1701 ID: .53 (mm) Init. Calib. Date(s): 07/12/97 07/13/97

EPA Sample No.(PIBLK): PIBLK04 Date Analyzed : 07/15/97

LAB Sample ID (PIBLK): PIBLK04 Time Analyzed : 23:12

EPA Sample No.(INDA): INDAM03 Date Analyzed : 07/16/97

LAB Sample ID (INDA): INDAM03 Time Analyzed : 00:00

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	10.17	10.11	10.21	.021	.020	5.0
gamma-BHC (Lindane)	11.88	11.82	11.92	.021	.020	5.0
Heptachlor	12.99	12.93	13.03	.020	.020	.0
Endosulfan I	18.97	18.89	19.03	.020	.020	.0
Dieldrin	20.82	20.73	20.87	.040	.040	.0
Endrin	21.87	21.78	21.92	.038	.040	-5.0
4,4'-DDD	24.10	24.01	24.15	.038	.040	-5.0
4,4'-DDT	25.03	24.94	25.08	.043	.040	7.5
Methoxychlor	28.26	28.17	28.31	.211	.200	5.5
Tetrachloro-m-xylene	7.23	7.17	7.27	.021	.020	5.0
Decachlorobiphenyl	34.81	34.69	34.89	.040	.040	.0

EPA Sample No.(INDB): INDBM03 Date Analyzed : 07/16/97

LAB Sample ID (INDB): INDBM03 Time Analyzed : 00:49

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	15.24	15.18	15.28	.020	.020	.0
delta-BHC	16.49	16.42	16.52	.020	.020	.0
Aldrin	14.34	14.27	14.37	.020	.020	.0
Heptachlor epoxide	17.55	17.47	17.61	.020	.020	.0
4,4'-DDE	20.11	20.02	20.16	.039	.040	-2.5
Endosulfan II	24.30	24.21	24.35	.040	.040	.0
Endosulfan Sulfate	27.95	27.86	28.00	.041	.040	2.5
Endrin ketone	30.07	29.98	30.12	.042	.040	5.0
Endrin aldehyde	26.33	26.24	26.38	.042	.040	5.0
alpha-Chlordane	19.50	19.41	19.55	.019	.020	-5.0
gamma-Chlordane	19.21	19.12	19.26	.019	.020	-5.0
Tetrachloro-m-xylene	7.24	7.17	7.27	.021	.020	5.0
Decachlorobiphenyl	34.82	34.69	34.89	.038	.040	-5.0

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-608 ID: .53 (mm) Init. Calib. Date(s): 07/12/97 07/13/97

EPA Sample No.(PIBLK): PIBLK04 Date Analyzed : 07/15/97

LAB Sample ID (PIBLK): PIBLK04 Time Analyzed : 23:12

EPA Sample No.(INDA): INDAM03 Date Analyzed : 07/16/97

LAB Sample ID (INDA): INDAM03 Time Analyzed : 00:00

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	10.78	10.72	10.82	.020	.020	.0
gamma-BHC (Lindane)	12.67	12.61	12.71	.020	.020	.0
Heptachlor	14.29	14.23	14.33	.020	.020	.0
Endosulfan I	20.93	20.84	20.98	.020	.020	.0
Dieldrin	22.62	22.53	22.67	.041	.040	2.5
Endrin	24.64	24.55	24.69	.041	.040	2.5
4,4'-DDD	25.40	25.31	25.45	.039	.040	-2.5
4,4'-DDT	27.04	26.96	27.10	.043	.040	7.5
Methoxychlor	31.96	31.87	32.01	.210	.200	5.0
Tetrachloro-m-xylene	8.04	7.99	8.09	.020	.020	.0
Decachlorobiphenyl	40.70	40.56	40.76	.040	.040	.0

EPA Sample No.(INDB): INDBM03 Date Analyzed : 07/16/97

LAB Sample ID (INDB): INDBM03 Time Analyzed : 00:49

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	13.04	12.97	13.07	.020	.020	.0
delta-BHC	14.91	14.84	14.94	.021	.020	5.0
Aldrin	16.00	15.93	16.03	.020	.020	.0
Heptachlor epoxide	19.03	18.94	19.08	.020	.020	.0
4,4'-DDE	22.30	22.20	22.34	.041	.040	2.5
Endosulfan II	25.67	25.58	25.72	.039	.040	-2.5
Endosulfan Sulfate	28.20	28.11	28.25	.037	.040	-7.5
Endrin ketone	32.44	32.34	32.48	.040	.040	.0
Endrin aldehyde	27.51	27.42	27.56	.040	.040	.0
alpha-Chlordane	20.80	20.71	20.85	.020	.020	.0
gamma-Chlordane	19.91	19.82	19.96	.020	.020	.0
Tetrachloro-m-xylene	8.05	7.99	8.09	.020	.020	.0
Decachlorobiphenyl	40.70	40.56	40.76	.039	.040	-2.5

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-1701 ID: .53 (mm) Init. Calib. Date(s): 07/07/97 07/08/97

Instrument ID: 5890 3

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.15 DCB: 34.58

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#
01	RESCO1	RESC01	07/07/97	13:17	7.19		34.60	
02	PEM01	PEM01	07/07/97	15:20	7.19		34.60	
03	AR166001	AR166001	07/07/97	16:09	7.16		34.59	
04	AR122101	AR122101	07/07/97	16:57	7.15		34.57	
05	AR123201	AR123201	07/07/97	17:46	7.15		34.57	
06	AR124201	AR124201	07/07/97	18:35	7.16		34.58	
07	AR124801	AR124801	07/07/97	19:23	7.15		34.57	
08	AR125401	AR125401	07/07/97	20:12	7.15		34.57	
09	TOXAPH01	TOXAPH01	07/07/97	21:01	7.15		34.57	
10	INDAL01	INDAL01	07/07/97	21:49	7.15		34.58	
11	INDBL01	INDBL01	07/07/97	22:38	7.16		34.58	
12	INDAM01	INDAM01	07/07/97	23:27	7.15		34.58	
13	INDBM01	INDBM01	07/08/97	00:15	7.16		34.59	
14	INDAH01	INDAH01	07/08/97	01:04	7.16		34.59	
15	INDBH01	INDBH01	07/08/97	01:53	7.16		34.59	
16	PIBLK01	PIBLK01	07/08/97	13:31	7.20		34.61	
17	PEM02	PEM02	07/08/97	14:20	7.16		34.59	
18	ZZZZZ		07/08/97	15:09	7.16		34.58	
19	ZZZZZ		07/08/97	15:57	7.16		34.58	
20	ZZZZZ		07/08/97	16:46	7.16		34.58	
21	ZZZZZ		07/08/97	17:35	7.15		34.58	
22	ZZZZZ		07/08/97	18:24	7.16		34.58	
23	ZZZZZ		07/08/97	19:12	7.15		34.58	
24	ZZZZZ		07/08/97	20:01	7.15		34.58	
25	ZZZZZ		07/08/97	20:50	7.15		34.58	
26	ZZZZZ		07/08/97	21:38	7.19			*
27	ZZZZZ		07/08/97	22:27		*		*
28	ZZZZZ		07/08/97	23:15	7.19			*
29	PBLK94	PBLK94	07/09/97	00:04	7.16		34.60	
30	PIBLK02	PIBLK02	07/09/97	02:08	7.17		34.60	
31	INDAM02	INDAM02	07/09/97	02:56	7.16		34.61	
32	INDBM02	INDBM02	07/09/97	03:45	7.16		34.60	

QC LIMITS
TCX = Tetrachloro-m-xylene (+- .05 MINUTES)
DCB = Decachlorobiphenyl (+- .10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-1701 ID: .53 (mm) Init. Calib. Date(s): 07/07/97 07/08/97

Instrument ID: 5890 3

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.15 DCB: 34.58

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#
01	ZZZZZ		07/09/97	04:33	7.16		34.60	
02	PBLK00	PBLK00	07/09/97	05:22	7.16		34.61	
03	CDE04MS	266314	07/09/97	06:10	7.16		34.61	
04	CDE04MSD	266314	07/09/97	06:59	7.17		34.61	
05	CDE04	266314	07/09/97	08:37	7.20	*	34.63	
06	ZZZZZ		07/09/97	09:26	7.17		34.56	
07	ZZZZZ		07/09/97	10:15	7.17			*
08	ZZZZZ		07/09/97	11:04	7.17		34.54	
09	ZZZZZ		07/09/97	11:52	7.16		34.53	
10	PIBLK03	PIBLK03	07/09/97	15:45	7.20		34.63	
11	PEM03	PEM03	07/09/97	16:33	7.17		34.62	
12	ZZZZZ		07/09/97	18:22		*		*
13	CDE01	266311	07/09/97	19:11	7.16		34.61	
14	CDE02	266312	07/09/97	19:59	7.16		34.60	
15	CDE10	266320	07/09/97	20:48	7.16		34.60	
16	CDE06	266316	07/09/97	21:36	7.16		34.61	
17	CDE07	266317	07/09/97	22:25	7.16		34.61	
18	CDE08	266318	07/09/97	23:14	7.16		34.61	
19	CDE09	266319	07/10/97	00:02	7.16		34.61	
20	CDE03	266313	07/10/97	00:51	7.98	*	40.42	*
21	PIBLK04	PIBLK04	07/10/97	03:43	7.18		34.62	
22	ZZZZZ		07/10/97	04:32	7.16		34.63	
23	ZZZZZ		07/10/97	05:20	7.17		34.63	
24	PIBLK05	PIBLK05	07/10/97	17:07	7.20		34.62	
25	INDAM04	INDAM04	07/10/97	17:56	7.16		34.61	
26	INDBM04	INDBM04	07/10/97	18:45	7.17		34.62	
27								
28								
29								
30								
31								
32								

QC LIMITS
TCX = Tetrachloro-m-xylene (+- .05 MINUTES)
DCB = Decachlorobiphenyl (+- .10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-608 ID: .53 (mm) Init. Calib. Date(s): 07/07/97 07/08/97

Instrument ID: 5890 3

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.97 DCB: 40.37

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESCO1	RESC01	07/07/97	13:17	8.02	40.40
02	PEM01	PEM01	07/07/97	15:20	8.02	40.39
03	AR166001	AR166001	07/07/97	16:09	7.97	40.37
04	AR122101	AR122101	07/07/97	16:57	7.97	40.35
05	AR123201	AR123201	07/07/97	17:46	7.97	40.35
06	AR124201	AR124201	07/07/97	18:35	7.97	40.36
07	AR124801	AR124801	07/07/97	19:23	7.97	40.36
08	AR125401	AR125401	07/07/97	20:12	7.97	40.36
09	TOXAPH01	TOXAPH01	07/07/97	21:01	7.97	40.35
10	INDAL01	INDAL01	07/07/97	21:49	7.97	40.37
11	INDBL01	INDBL01	07/07/97	22:38	7.98	40.37
12	INDAM01	INDAM01	07/07/97	23:27	7.97	40.37
13	INDBM01	INDBM01	07/08/97	00:15	7.97	40.38
14	INDAH01	INDAH01	07/08/97	01:04	7.97	40.38
15	INDBH01	INDBH01	07/08/97	01:53	7.97	40.39
16	PIBLK01	PIBLK01	07/08/97	13:31	8.02	40.41
17	PEM02	PEM02	07/08/97	14:20	7.98	40.38
18	ZZZZZ		07/08/97	15:09	7.97	40.37
19	ZZZZZ		07/08/97	15:57	7.97	40.37
20	ZZZZZ		07/08/97	16:46	7.97	40.38
21	ZZZZZ		07/08/97	17:35	7.97	40.37
22	ZZZZZ		07/08/97	18:24	7.97	40.37
23	ZZZZZ		07/08/97	19:12	7.97	40.37
24	ZZZZZ		07/08/97	20:01	7.97	40.38
25	ZZZZZ		07/08/97	20:50	7.97	40.38
26	ZZZZZ		07/08/97	21:38	*	*
27	ZZZZZ		07/08/97	22:27	*	*
28	ZZZZZ		07/08/97	23:15	*	*
29	PBLK94	PBLK94	07/09/97	00:04	7.97	40.39
30	PIBLK02	PIBLK02	07/09/97	02:08	7.98	40.39
31	INDAM02	INDAM02	07/09/97	02:56	7.97	40.40
32	INDBM02	INDBM02	07/09/97	03:45	7.98	40.40

QC LIMITS
TCX = Tetrachloro-m-xylene (+- .05 MINUTES)
DCB = Decachlorobiphenyl (+- .10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-608 ID: .53 (mm) Init. Calib. Date(s): 07/07/97 07/08/97

Instrument ID: 5890 3

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.97 DCB: 40.37

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	ZZZZZ		07/09/97	04:33	7.98	40.40
02	PBLK00	PBLK00	07/09/97	05:22	7.98	40.41
03	CDE04MS	266314	07/09/97	06:10	7.98	40.41
04	CDE04MSD	266314	07/09/97	06:59	7.99	40.42
05	CDE04	266314	07/09/97	08:37	8.02 *	40.44
06	ZZZZZ		07/09/97	09:26	7.99	40.28
07	ZZZZZ		07/09/97	10:15	*	*
08	ZZZZZ		07/09/97	11:04	8.00	40.27 *
09	ZZZZZ		07/09/97	11:52	7.99	40.28
10	PIBLK03	PIBLK03	07/09/97	15:45	8.02 *	40.44
11	PEM03	PEM03	07/09/97	16:33	7.98	40.42
12	ZZZZZ		07/09/97	18:22	*	*
13	CDE01	266311	07/09/97	19:11	7.97	40.40
14	CDE02	266312	07/09/97	19:59	7.98	40.40
15	CDE10	266320	07/09/97	20:48	7.98	40.41
16	CDE06	266316	07/09/97	21:36	7.98	40.41
17	CDE07	266317	07/09/97	22:25	7.98	40.42
18	CDE08	266318	07/09/97	23:14	7.98	40.43
19	CDE09	266319	07/10/97	00:02	7.98	40.45
20	CDE03	266313	07/10/97	00:51	7.98	40.42
21	PIBLK04	PIBLK04	07/10/97	03:43	7.99	40.42
22	ZZZZZ		07/10/97	04:32	7.98	40.42
23	ZZZZZ		07/10/97	05:20	7.98	40.43
24	PIBLK05	PIBLK05	07/10/97	17:07	8.01	40.43
25	INDAM04	INDAM04	07/10/97	17:56	7.98	40.41
26	INDBM04	INDBM04	07/10/97	18:45	7.98	40.41
27						
28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (+- .05 MINUTES)
DCB = Decachlorobiphenyl (+- .10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-1701 ID: .53 (mm) Init. Calib. Date(s): 07/12/97 07/13/97

Instrument ID: 5890 3

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.22 DCB: 34.79

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESCO1	RESC01	07/12/97	20:03	7.22	34.77
02	PEM01	PEM01	07/12/97	20:52	7.22	34.77
03	AR166001	AR166001	07/12/97	21:41	7.22	34.78
04	AR122101	AR122101	07/12/97	22:30	7.22	34.77
05	AR123201	AR123201	07/12/97	23:19	7.22	34.78
06	AR124201	AR124201	07/13/97	00:08	7.22	34.78
07	AR124801	AR124801	07/13/97	00:56	7.22	34.78
08	AR125401	AR125401	07/13/97	01:45	7.22	34.78
09	TOXAPH01	TOXAPH01	07/13/97	02:33	7.22	34.78
10	INDAL01	INDAL01	07/13/97	03:22	7.22	34.78
11	INDBL01	INDBL01	07/13/97	04:10	7.22	34.79
12	INDAM01	INDAM01	07/13/97	04:59	7.22	34.78
13	INDBM01	INDBM01	07/13/97	05:47	7.22	34.79
14	INDAH01	INDAH01	07/13/97	06:36	7.22	34.79
15	INDBH01	INDBH01	07/13/97	07:24	7.22	34.79
16	PIBLK01	PIBLK01	07/14/97	13:07	7.26	34.82
17	PEM02	PEM02	07/14/97	13:56	7.23	34.80
18	ZZZZZ		07/14/97	14:45	*	*
19	ZZZZZ		07/14/97	15:34	*	*
20	ZZZZZ		07/14/97	16:23	*	*
21	CDE19	266329	07/14/97	17:12	7.23	34.78
22	CDE16	266326	07/14/97	18:01	7.22	34.78
23	CDE18	266328	07/14/97	18:49	7.22	34.78
24	CDE13	266323	07/14/97	19:38	7.22	34.77
25	CDE15	266325	07/14/97	20:27	7.21	34.77
26	CDE20	266330	07/14/97	21:15	7.22	34.77
27	CDE11	266321	07/14/97	22:04	7.22	34.78
28	CDE14	266324	07/14/97	22:53	7.22	34.78
29	CDE17	266327	07/14/97	23:42	7.21	34.77
30	PIBLK02	PIBLK02	07/15/97	02:34	7.23	34.80
31	INDAM02	INDAM02	07/15/97	03:23	7.22	34.80
32	INDBM02	INDBM02	07/15/97	04:11	7.22	34.80

QC LIMITS
TCX = Tetrachloro-m-xylene (+- .05 MINUTES)
DCB = Decachlorobiphenyl (+- .10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-1701 ID: .53 (mm) Init. Calib. Date(s): 07/12/97 07/13/97

Instrument ID: 5890 3

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.22 DCB: 34.79

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	CDE21	266331	07/15/97	05:00	7.22	34.79
02	CDE12	266322	07/15/97	05:48	7.21	34.79
03	CDE05	266315	07/15/97	06:37	7.22	34.79
04	CDE05MS	266315	07/15/97	07:25	7.22	34.80
05	CDE05MSD	266315	07/15/97	08:14	7.23	34.80
06	AR125402	AR125402	07/15/97	09:03	7.23	34.80
07	PIBLK03	PIBLK03	07/15/97	12:09	7.24	34.81
08	PEM03	PEM03	07/15/97	12:58	7.23	34.81
09	CDE02 DL	266312	07/15/97	13:47	7.23	34.81
10	CDE01 DL	266311	07/15/97	14:36	7.23	34.81
11	CDE07 DL	266317	07/15/97	15:25	7.24	34.80
12	CDE08 DL	266318	07/15/97	16:14	7.23	34.80
13	CDE10 DL	266320	07/15/97	17:03	7.23	34.81
14	CDE15 DL	266325	07/15/97	17:52	7.23	34.81
15	ZZZZZ		07/15/97	18:41	7.23	34.73
16	ZZZZZ		07/15/97	19:30	7.23	34.67 *
17	ZZZZZ		07/15/97	22:23	7.24	34.80
18	PIBLK04	PIBLK04	07/15/97	23:12	7.23	34.82
19	INDAM03	INDAM03	07/16/97	00:00	7.23	34.81
20	INDBM03	INDBM03	07/16/97	00:49	7.24	34.82
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

	QC LIMITS
TCX = Tetrachloro-m-xylene	(+- .05 MINUTES)
DCB = Decachlorobiphenyl	(+- .10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-608 ID: .53 (mm) Init. Calib. Date(s): 07/12/97 07/13/97

Instrument ID: 5890 3

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 8.04 DCB: 40.66

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESCO1	RESC01	07/12/97	20:03	8.03	40.63
02	PEM01	PEM01	07/12/97	20:52	8.03	40.64
03	AR166001	AR166001	07/12/97	21:41	8.04	40.65
04	AR122101	AR122101	07/12/97	22:30	8.03	40.65
05	AR123201	AR123201	07/12/97	23:19	8.04	40.65
06	AR124201	AR124201	07/13/97	00:08	8.03	40.65
07	AR124801	AR124801	07/13/97	00:56	8.03	40.66
08	AR125401	AR125401	07/13/97	01:45	8.03	40.66
09	TOXAPH01	TOXAPH01	07/13/97	02:33	8.03	40.66
10	INDAL01	INDAL01	07/13/97	03:22	8.04	40.66
11	INDBL01	INDBL01	07/13/97	04:10	8.04	40.67
12	INDAM01	INDAM01	07/13/97	04:59	8.04	40.66
13	INDBM01	INDBM01	07/13/97	05:47	8.04	40.66
14	INDAH01	INDAH01	07/13/97	06:36	8.03	40.66
15	INDBH01	INDBH01	07/13/97	07:24	8.04	40.67
16	PIBLK01	PIBLK01	07/14/97	13:07	8.09 *	40.71
17	PEM02	PEM02	07/14/97	13:56	8.05	40.69
18	ZZZZZ		07/14/97	14:45	*	*
19	ZZZZZ		07/14/97	15:34	*	*
20	ZZZZZ		07/14/97	16:23	*	*
21	CDE19	266329	07/14/97	17:12	8.04	40.66
22	CDE16	266326	07/14/97	18:01	8.04	40.66
23	CDE18	266328	07/14/97	18:49	8.04	40.67
24	CDE13	266323	07/14/97	19:38	8.04	40.68
25	CDE15	266325	07/14/97	20:27	8.04	40.67
26	CDE20	266330	07/14/97	21:15	8.04	40.67
27	CDE11	266321	07/14/97	22:04	8.04	40.70
28	CDE14	266324	07/14/97	22:53	8.04	40.75
29	CDE17	266327	07/14/97	23:42	8.04	40.74
30	PIBLK02	PIBLK02	07/15/97	02:34	8.05	40.67
31	INDAM02	INDAM02	07/15/97	03:23	8.04	40.68
32	INDBM02	INDBM02	07/15/97	04:11	8.04	40.69

QC LIMITS
TCX = Tetrachloro-m-xylene (+- .05 MINUTES)
DCB = Decachlorobiphenyl (+- .10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GC Column: DB-608 ID: .53 (mm) Init. Calib. Date(s): 07/12/97 07/13/97

Instrument ID: 5890 3

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 8.04 DCB: 40.66

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	CDE21	266331	07/15/97	05:00	8.04	40.74
02	CDE12	266322	07/15/97	05:48	8.03	40.72
03	CDE05	266315	07/15/97	06:37	8.04	40.68
04	CDE05MS	266315	07/15/97	07:25	8.05	40.69
05	CDE05MSD	266315	07/15/97	08:14	8.05	40.69
06	AR125402	AR125402	07/15/97	09:03	8.05	40.69
07	PIBLK03	PIBLK03	07/15/97	12:09	8.06	40.70
08	PEM03	PEM03	07/15/97	12:58	8.05	40.70
09	CDE02 DL	266312	07/15/97	13:47	8.05	40.71
10	CDE01 DL	266311	07/15/97	14:36	8.05	40.70
11	CDE07 DL	266317	07/15/97	15:25	8.05	40.71
12	CDE08 DL	266318	07/15/97	16:14	8.05	40.71
13	CDE10 DL	266320	07/15/97	17:03	8.05	40.70
14	CDE15 DL	266325	07/15/97	17:52	8.05	40.69
15	ZZZZZ		07/15/97	18:41	8.06	40.56 *
16	ZZZZZ		07/15/97	19:30	8.06	40.54 *
17	ZZZZZ		07/15/97	22:23	8.05	40.68
18	PIBLK04	PIBLK04	07/15/97	23:12	8.04	40.70
19	INDAM03	INDAM03	07/16/97	00:00	8.04	40.70
20	INDBM03	INDBM03	07/16/97	00:49	8.05	40.70
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (+- .05 MINUTES)
DCB = Decachlorobiphenyl (+- .10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

9A
PESTICIDE FLORISIL CARTRIDGE CHECK

Lab Name: ICM, Inc. Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Florisil Cartridge Lot Number: SP1045QQ Date of Analysis: 03/05/97

GC Column(1): DB1701 ID: .53 (mm) GC Column(2): DB608 ID: .53 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
alpha-BHC	.01	.0086	86	80-120
gamma-BHC (Lindane)	.01	.0084	84	80-120
Heptachlor	.01	.0104	104	80-120
Endosulfan I	.01	.0107	107	80-120
Dieldrin	.02	.018	90	80-120
Endrin	.02	.016	80	80-120
4,4'-DDD	.02	.017	85	80-120
4,4'-DDT	.02	.018	90	80-120
Methoxychlor	.100	.098	98	80-120
Tetrachloro-m-xylene	.01	.0092	92	80-120
Decachlorobiphenyl	.02	.021	105	80-120

Column to be used to flag recovery with an asterisk.
* Values outside of QC limits.

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK94	PBLK94	07/09/97	07/09/97
02	PBLK00	PBLK00	07/09/97	07/09/97
03	CDE01	266311	07/09/97	07/09/97
04	CDE02	266312	07/09/97	07/09/97
05	CDE03	266313	07/09/97	07/09/97
06	CDE04	266314	07/09/97	07/09/97
07	CDE04MS	266314MS	07/09/97	07/09/97
08	CDE04MSD	266314MSD	07/09/97	07/09/97
09	CDE05	266315	07/15/97	07/15/97
10	CDE05MS	266315MS	07/15/97	07/15/97
11	CDE05MSD	266315MSD	07/15/97	07/15/97
12	CDE06	266316	07/09/97	07/09/97
13	CDE07	266317	07/09/97	07/09/97
14	CDE08	266318	07/09/97	07/09/97
15	CDE09	266319	07/10/97	07/10/97
16	CDE10	266320	07/09/97	07/09/97
17	CDE11	266321	07/14/97	07/14/97
18	CDE12	266322	07/15/97	07/15/97
19	CDE13	266323	07/14/97	07/14/97
20	CDE14	266324	07/14/97	07/14/97
21	CDE15	266325	07/14/97	07/14/97

9A
PESTICIDE FLORISIL CARTRIDGE CHECK

Lab Name: ICM, Inc. Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Florisil Cartridge Lot Number: SP1045QQ Date of Analysis: 03/05/97

GC Column(1): DB1701 ID: .53 (mm) GC Column(2): DB608 ID: .53 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
alpha-BHC	.01	.0086	86	80-120
gamma-BHC (Lindane)	.01	.0084	84	80-120
Heptachlor	.01	.0104	104	80-120
Endosulfan I	.01	.0107	107	80-120
Dieldrin	.02	.018	90	80-120
Endrin	.02	.016	80	80-120
4,4'-DDD	.02	.017	85	80-120
4,4'-DDT	.02	.018	90	80-120
Methoxychlor	.100	.098	98	80-120
Tetrachloro-m-xylene	.01	.0092	92	80-120
Decachlorobiphenyl	.02	.021	105	80-120

Column to be used to flag recovery with an asterisk.
* Values outside of QC limits.

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	CDE16	266326	07/14/97	07/14/97
02	CDE17	266327	07/14/97	07/14/97
03	CDE18	266328	07/14/97	07/14/97
04	CDE19	266329	07/14/97	07/14/97
05	CDE20	266330	07/14/97	07/14/97
06	CDE21	266331	07/15/97	07/15/97
07	CDE01 DL	266311 DL	07/15/97	07/15/97
08	CDE02 DL	266312 DL	07/15/97	07/15/97
09	CDE07 DL	266317 DL	07/15/97	07/15/97
10	CDE08 DL	266318 DL	07/15/97	07/15/97
11	CDE10 DL	266320 DL	07/15/97	07/15/97
12	CDE15 DL	266325 DL	07/15/97	07/15/97
13				
14				
15				
16				
17				
18				
19				
20				
21				

9B
PESTICIDE GPC CALIBRATION

Lab Name: ICM, Inc. Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GPC Column: ENVIROBEAD-XS3 Calibration Date: 7/03/97

GC Column(1): DB1701 ID: .53 (mm) GC Column(2): DB608 ID: .53 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
gamma-BHC (Lindane)	.050	.049	98	80-110
Heptachlor	.050	.047	94	80-110
Aldrin	.050	.045	90	80-110
Dieldrin	.10	.103	103	80-110
Endrin	.10	.099	99	80-110
4,4'-DDT	.10	.108	108	80-110

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

THIS GPC CALIBRATION APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK94	PBLK94	07/09/97	07/09/97
02	PBLK00	PBLK00	07/09/97	07/09/97
03	CDE01	266311	07/09/97	07/09/97
04	CDE02	266312	07/09/97	07/09/97
05	CDE03	266313	07/10/97	07/10/97
06	CDE04	266314	07/09/97	07/09/97
07	CDE04MS	266314	07/09/97	07/09/97
08	CDE04MSD	266314	07/09/97	07/09/97
09	CDE06	266316	07/09/97	07/09/97
10	CDE07	266317	07/09/97	07/09/97
11	CDE08	266318	07/09/97	07/09/97
12	CDE09	266319	07/10/97	07/10/97
13	CDE10	266320	07/09/97	07/09/97
14	CDE01 DL	266311 DL	07/15/97	07/15/97
15	CDE02 DL	266312 DL	07/15/97	07/15/97
16	CDE07 DL	266317 DL	07/15/97	07/15/97
17	CDE08 DL	266318 DL	07/15/97	07/15/97
18	CDE10 DL	266320 DL	07/15/97	07/15/97
19				

9B
PESTICIDE GPC CALIBRATION

Lab Name: ICM, Inc. Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

GPC Column: ENVIROBEAD-XS3 Calibration Date: 7/05/97

GC Column(1): DB1701 ID: .53 (mm) GC Column(2): DB608 ID: .53 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
gamma-BHC (Lindane)	.050	.053	106	80-110
Heptachlor	.050	.049	98	80-110
Aldrin	.050	.042	84	80-110
Dieldrin	.10	.108	108	80-110
Endrin	.10	.101	101	80-110
4,4'-DDT	.10	.103	103	80-110

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

THIS GPC CALIBRATION APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	CDE05	266315	07/15/97	07/15/97
02	CDE05MS	266315MS	07/15/97	07/15/97
03	CDE05MSD	266315MSD	07/15/97	07/15/97
04	CDE12	266322	07/15/97	07/15/97
05	CDE13	266323	07/14/97	07/14/97
06	CDE14	266324	07/14/97	07/14/97
07	CDE15	266325	07/14/97	07/14/97
08	CDE16	266326	07/14/97	07/14/97
09	CDE17	266327	07/14/97	07/14/97
10	CDE18	266328	07/14/97	07/14/97
11	CDE19	266329	07/14/97	07/14/97
12	CDE20	266330	07/14/97	07/14/97
13	CDE21	266331	07/15/97	07/15/97
14	CDE15 DL	266325 DL	07/15/97	07/15/97
15				
16				
17				
18				
19				

FORM IX PEST-2 OLM03.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

CDE04MS

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266314 Date(s) Analyzed: 07/09/97 07/09/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	11.78	11.72	11.82	8.9	10.1
	2	12.57	12.50	12.60	9.8	
Heptachlor	1	12.88	12.82	12.92	9.7	3.2
	2	14.19	14.12	14.22	9.4	
Aldrin	1	14.22	14.16	14.26	9.7	4.3
	2	15.87	15.81	15.91	9.3	
Dieldrin	1	20.68	20.60	20.74	20.	35.0
	2	22.48	22.39	22.53	27.	
Endrin	1	21.73	21.64	21.78	25.	8.7
	2	24.49	24.40	24.54	23.	
4,4'-DDT	1	24.88	24.79	24.93	25.	20.0
	2	26.89	26.81	26.95	30.	
	1					
	2					
	1					
	2					

FORM X PEST-1

OLM03.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

CDE04MSD

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266314 Date(s) Analyzed: 07/09/97 07/09/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	11.79	11.72	11.82	9.4	6.4
	2	12.57	12.50	12.60	10.	
Heptachlor	1	12.89	12.82	12.92	10.	.0
	2	14.19	14.12	14.22	10.	
Aldrin	1	14.22	14.16	14.26	10.	.0
	2	15.88	15.81	15.91	10.	
Dieldrin	1	20.69	20.60	20.74	21.	23.8
	2	22.49	22.39	22.53	26.	
Endrin	1	21.73	21.64	21.78	25.	16.0
	2	24.49	24.40	24.54	29.	
4,4'-DDT	1	24.88	24.79	24.93	28.	21.4
	2	26.89	26.81	26.95	34.	
	1					
	2					
	1					
	2					

FORM X PEST-1

OLM03.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

CDE05MS

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266315 Date(s) Analyzed: 07/15/97 07/15/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	11.88	11.82	11.92	8.6	27.9
	2	12.67	12.61	12.71	11.	
Heptachlor	1	12.99	12.93	13.03	9.4	3.3
	2	14.30	14.23	14.33	9.1	
Aldrin	1	14.33	14.27	14.37	10.	.0
	2	16.00	15.93	16.03	10.	
Dieldrin	1	20.82	20.73	20.87	21.	19.0
	2	22.62	22.53	22.67	25.	
Endrin	1	21.84	21.78	21.92	43.	2.3
	2	24.60	24.55	24.69	44.	
4,4'-DDT	1	25.01	24.94	25.08	38.	294.7
	2	26.99	26.96	27.10	150.	
	1					
	2					
	1					
	2					

FORM X PEST-1 OLM03.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

CDE05MSD

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266315 Date(s) Analyzed: 07/15/97 07/15/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	11.88	11.82	11.92	8.5	1.2
	2	12.68	12.61	12.71	8.6	
Heptachlor	1	13.00	12.93	13.03	9.3	6.9
	2	14.30	14.23	14.33	8.7	
Aldrin	1	14.34	14.27	14.37	9.9	11.1
	2	16.00	15.93	16.03	11.	
Dieldrin	1	20.82	20.73	20.87	20.	10.0
	2	22.62	22.53	22.67	22.	
Endrin	1	21.84	21.78	21.92	41.	2.4
	2	24.59	24.55	24.69	42.	
4,4'-DDT	1	25.01	24.94	25.08	47.	51.1
	2	26.99	26.96	27.10	71.	
	1					
	2					
	1					
	2					

FORM X PEST-1 OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE01

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266311 Date(s) Analyzed: 07/09/97 07/09/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_ COLUMN 1	1	17.18	17.07	17.21	2200.	4500.	
	2	18.10	18.03	18.17	3100.		
	3	20.35	20.27	20.41	4100.		
	4	21.67	21.61	21.75	6900.		
	5	22.33	22.25	22.39	6200.		
COLUMN 2	1	19.80	19.72	19.86	1300.	1900.	136.8
	2	20.15	20.06	20.20	2100.		
	3	21.64	21.55	21.69	610.		
	4	22.99	22.91	23.05	2300.		
	5	24.43	24.35	24.49	3100.		
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

page 1 of 1

FORM X PEST-2 OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE01 DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266311 Date(s) Analyzed: 07/15/97 07/15/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_ COLUMN 1	1	17.32	17.20	17.34	3300.	5900.	
	2	18.25	18.16	18.30	3700.		
	3	20.50	20.42	20.56	6200.		
	4	21.27	21.19	21.33	6600.		
	5	22.48	22.41	22.55	9700.		
COLUMN 2	1	19.94	19.85	19.99	2300.	3600.	63.9 JN J
	2	20.29	20.20	20.34	3900.		
	3	21.78	21.68	21.82	1300.		
	4	23.14	23.05	23.19	3500.		
	5	24.58	24.50	24.64	6900.		
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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FORM X PEST-2 OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE02

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266312 Date(s) Analyzed: 07/09/97 07/09/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_	1	17.15	17.07	17.21	3500.		
	2	18.10	18.03	18.17	3100.		
	3	20.35	20.27	20.41	4300.		
COLUMN 1	4	21.66	21.61	21.75	7100.	4800.	
	5	22.33	22.25	22.39	6000.		
	1	19.80	19.72	19.86	1700.		2.1
	2	20.02	20.06	20.20	16000.		
	3	21.64	21.55	21.69	880.		
COLUMN 2	4	22.98	22.91	23.05	2500.	4900.	
	5	24.43	24.35	24.49	3300.		
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

page 1 of 1

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE02 DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266312 Date(s) Analyzed: 07/15/97 07/15/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_ COLUMN 1	1	17.27	17.20	17.34	7100.	8400.	
	2	18.23	18.16	18.30	8900.		
	3	20.50	20.42	20.56	7400.		
	4	21.27	21.19	21.33	8700.		
	5	22.48	22.41	22.55	9700.		
COLUMN 2	1	19.95	19.85	19.99	2900.	9700.	15.5
	2	20.17	20.20	20.34	32000.		
	3	21.79	21.68	21.82	1400.		
	4	23.14	23.05	23.19	4200.		
	5	24.58	24.50	24.64	8300.		
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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FORM X PEST-2 OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE03

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266313 Date(s) Analyzed: 07/10/97 07/10/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_ COLUMN 1	1	17.17	17.07	17.21	800.		
	2	18.08	18.03	18.17	830.		
	3	20.36	20.27	20.41	760.		
	4	21.67	21.61	21.75	1800.	1200.	
	5	22.33	22.25	22.39	1900.		
COLUMN 2	1	19.81	19.72	19.86	420.		135.3
	2	20.15	20.06	20.20	470.		
	3	21.65	21.55	21.69	250.		
	4	22.99	22.91	23.05	470.	510.	
	5	24.43	24.35	24.49	930.		
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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FORM X PEST-2 OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE04

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266314 Date(s) Analyzed: 07/09/97 07/09/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_	1	17.21	17.07	17.21	28.		
	2	18.16	18.03	18.17	38.		
	3	20.40	20.27	20.41	47.		
COLUMN 1	4	21.72	21.61	21.75	120.	94.	
	5	22.37	22.25	22.39	240.		
	1	19.86	19.72	19.86	42.		104.3
	2	20.19	20.06	20.20	44.		
	3	21.70	21.55	21.69	20.		
COLUMN 2	4	23.03	22.91	23.05	42.	46.	
	5	24.47	24.35	24.49	84.		
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE04MS

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266314 Date(s) Analyzed: 07/09/97 07/09/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_	1	17.16	17.07	17.21	6.2		
	2	18.12	18.03	18.17	23.		
	3	20.37	20.27	20.41	26.		
COLUMN 1	4	21.73	21.61	21.75	420.	120.	
	5	22.35	22.25	22.39	130.		
	1	19.82	19.72	19.86	29.		55.8
	2	20.15	20.06	20.20	29.		
	3	21.40	21.55	21.69	37.		
COLUMN 2	4	23.00	22.91	23.05	27.	77.	
	5	24.49	24.35	24.49	260.		
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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FORM X PEST-2 OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE04MSD

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266314 Date(s) Analyzed: 07/09/97 07/09/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_ COLUMN 1	1	17.17	17.07	17.21	30.	150.	
	2	18.12	18.03	18.17	46.		
	3	20.37	20.27	20.41	46.		
	4	21.73	21.61	21.75	420.		
	5	22.35	22.25	22.39	190.		
COLUMN 2	1	19.82	19.72	19.86	41.	90.	66.7
	2	20.16	20.06	20.20	40.		
	3	21.67	21.55	21.69	22.		
	4	23.00	22.91	23.05	39.		
	5	24.49	24.35	24.49	310.		
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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FORM X PEST-2 OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE05

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266315 Date(s) Analyzed: 07/15/97 07/15/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_ COLUMN 1	1	17.29	17.20	17.34	170.		
	2	18.23	18.16	18.30	200.		
	3	20.48	20.42	20.56	300.		
	4	21.26	21.19	21.33	380.	350.	
	5	22.46	22.41	22.55	690.		
COLUMN 2	1	19.93	19.85	19.99	110.		59.1
	2	20.28	20.20	20.34	170.		
	3	21.77	21.68	21.82	100.		
	4	23.13	23.05	23.19	170.	220.	
	5	24.57	24.50	24.64	530.		
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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FORM X PEST-2 OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE05MS

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266315 Date(s) Analyzed: 07/15/97 07/15/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_ COLUMN 1	1	17.29	17.20	17.34	130.		
	2	18.23	18.16	18.30	180.		
	3	20.49	20.42	20.56	280.		
	4	21.26	21.19	21.33	370.	310.	
	5	22.47	22.41	22.55	600.		
COLUMN 2	1	19.93	19.85	19.99	93.		29.2
	2	20.28	20.20	20.34	150.		
	3	21.78	21.68	21.82	71.		
	4	23.13	23.05	23.19	140.	240.	
	5	24.60	24.50	24.64	750.		
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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FORM X PEST-2 OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE05MSD

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266315 Date(s) Analyzed: 07/15/97 07/15/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_	1	17.29	17.20	17.34	150.		
	2	18.24	18.16	18.30	180.		
	3	20.49	20.42	20.56	260.		
COLUMN 1	4	21.26	21.19	21.33	290.	290.	
	5	22.47	22.41	22.55	580.		
	1	19.93	19.85	19.99	85.		31.8
	2	20.28	20.20	20.34	140.		
	3	21.78	21.68	21.82	38.		
COLUMN 2	4	23.13	23.05	23.19	130.	220.	
	5	24.59	24.50	24.64	720.		
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE06

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266316 Date(s) Analyzed: 07/09/97 07/09/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254	1	17.16	17.07	17.21	320.		
	2	18.11	18.03	18.17	430.		
	3	20.36	20.27	20.41	390.		
COLUMN 1	4	21.68	21.61	21.75	650.	520.	
	5	22.34	22.25	22.39	800.		
	1	19.81	19.72	19.86	300.		92.6
	2	20.15	20.06	20.20	300.		
	3	21.64	21.55	21.69	110.		
COLUMN 2	4	22.99	22.91	23.05	250.	270.	
	5	24.44	24.35	24.49	380.		
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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FORM X PEST-2 OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE07

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266317 Date(s) Analyzed: 07/09/97 07/09/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_ COLUMN 1	1	17.16	17.07	17.21	1800.	2600.	
	2	18.11	18.03	18.17	2200.		
	3	20.36	20.27	20.41	2400.		
	4	21.67	21.61	21.75	3200.		
	5	22.33	22.25	22.39	3300.		
COLUMN 2	1	19.81	19.72	19.86	1300.	1300.	100.0
	2	20.15	20.06	20.20	1400.		
	3	21.64	21.55	21.69	770.		
	4	22.99	22.91	23.05	1400.		
	5	24.43	24.35	24.49	1700.		
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE07 DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266317 Date(s) Analyzed: 07/15/97 07/15/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_	1	17.29	17.20	17.34	2600.		
	2	18.25	18.16	18.30	2800.		
	3	20.50	20.42	20.56	3500.		
COLUMN 1	4	21.27	21.19	21.33	3700.	3400.	
	5	22.48	22.41	22.55	4600.		
	1	19.95	19.85	19.99	2400.		30.8
	2	20.29	20.20	20.34	2800.		
	3	21.78	21.68	21.82	1800.		
COLUMN 2	4	23.14	23.05	23.19	2100.	2600.	
	5	24.58	24.50	24.64	4000.		
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

* Peak Concentration excluded from calculation of mean due to additional flags

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FORM X PEST-2 OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE08

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266318 Date(s) Analyzed: 07/09/97 07/09/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_	1	17.16	17.07	17.21	4200.		
	2	18.11	18.03	18.17	4900.		
	3	20.35	20.27	20.41	5400.		
COLUMN 1	4	21.67	21.61	21.75	7200.	5700.	
	5	22.33	22.25	22.39	6800.		
	1	19.81	19.72	19.86	2700.		119.2
	2	20.15	20.06	20.20	2900.		
	3	21.64	21.55	21.69	1700.		
COLUMN 2	4	22.99	22.91	23.05	3000.	2600.	
	5	24.43	24.35	24.49	3000.		
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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FORM X PEST-2 OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE08 DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266318 Date(s) Analyzed: 07/15/97 07/15/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_ COLUMN 1	1	17.29	17.20	17.34	6800.	8900.	
	2	18.24	18.16	18.30	8000.		
	3	20.50	20.42	20.56	9200.		
	4	21.27	21.19	21.33	10000.		
	5	22.48	22.41	22.55	10000.		
COLUMN 2	1	19.94	19.85	19.99	5200.	5700.	56.1
	2	20.28	20.20	20.34	5900.		
	3	21.77	21.68	21.82	4200.		
	4	23.13	23.05	23.19	4800.		
	5	24.58	24.50	24.64	8600.		
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

* Peak Concentration excluded from calculation of mean due to additional flags

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FORM X PEST-2 OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE09

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266319 Date(s) Analyzed: 07/10/97 07/10/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_	1	17.17	17.07	17.21	400.		
	2	18.11	18.03	18.17	780.		
	3	20.36	20.27	20.41	750.		
COLUMN 1	4	21.67	21.61	21.75	1200.	860.	
	5	22.34	22.25	22.39	1200.		
	1	19.79	19.72	19.86	610.		115.0
	2	20.16	20.06	20.20	320.		
	3	21.65	21.55	21.69	140.		
COLUMN 2	4	23.00	22.91	23.05	370.	400.	
	5	24.44	24.35	24.49	560.		
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

FORM X PEST-2 OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE10

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266320 Date(s) Analyzed: 07/09/97 07/09/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_	1	17.16	17.07	17.21	240.		
	2	18.02	18.03	18.17	1300.		
	3	20.38	20.27	20.41	700.		
COLUMN 1	4	21.67	21.61	21.75	760.	750.	
	5	22.33	22.25	22.39	790.		
	1	19.77	19.72	19.86	4700.		60.0
	2	20.15	20.06	20.20	150.		
	3	21.52	21.55	21.69	730.		
COLUMN 2	4	22.98	22.91	23.05	280.	1200.	
	5	24.43	24.35	24.49	250.		
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

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At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE10 DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266320 Date(s) Analyzed: 07/15/97 07/15/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_ COLUMN 1	1	17.29	17.20	17.34	390.	1000.	
	2	18.15	18.16	18.30	1500.		
	3	20.52	20.42	20.56	1300.		
	4	21.26	21.19	21.33	950.		
	5	22.48	22.41	22.55	920.		
COLUMN 2	1	19.91	19.85	19.99	5800.	1600.	60.0
	2	20.29	20.20	20.34	290. *		
	3	21.67	21.68	21.82	970.		
	4	23.14	23.05	23.19	440.		
	5	24.59	24.50	24.64	520.		
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

* Peak Concentration excluded from calculation of mean due to additional flags

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FORM X PEST-2 OLM03.0

10B

PESTICIDE IDENTIFICATION SUMMARY FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE11

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266321 Date(s) Analyzed: 07/14/97 07/14/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_ COLUMN 1	1	17.27	17.20	17.34	240.	340.	
	2	18.22	18.16	18.30	230.		
	3	20.48	20.42	20.56	410.		
	4	21.25	21.19	21.33	290.		
	5	22.45	22.41	22.55	530.		
COLUMN 2	1	19.90	19.85	19.99	450.	280.	21.4
	2	20.27	20.20	20.34	150.		
	3	21.75	21.68	21.82	150.		
	4	23.11	23.05	23.19	200.		
	5	24.56	24.50	24.64	440.		
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE12

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266322 Date(s) Analyzed: 07/15/97 07/15/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_	1	17.29	17.20	17.34	750.		
	2	18.23	18.16	18.30	940.		
	3	20.47	20.42	20.56	1600.		
COLUMN 1	4	21.26	21.19	21.33	1400.	1400.	
	5	22.46	22.41	22.55	2200.		
	1	19.93	19.85	19.99	530.		109.0
	2	20.27	20.20	20.34	630.		
	3	21.77	21.68	21.82	330.		
COLUMN 2	4	23.12	23.05	23.19	630.	670.	
	5	24.57	24.50	24.64	1200.		
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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FORM X PEST-2 OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE13

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266323 Date(s) Analyzed: 07/14/97 07/14/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_	1	17.26	17.20	17.34	350.		
	2	18.21	18.16	18.30	370.		
	3	20.47	20.42	20.56	660.		
COLUMN 1	4	21.24	21.19	21.33	670.	590.	
	5	22.45	22.41	22.55	910.		
	1	19.92	19.85	19.99	320.		59.5
	2	20.26	20.20	20.34	330.		
	3	21.75	21.68	21.82	160.		
COLUMN 2	4	23.11	23.05	23.19	320.	370.	
	5	24.55	24.50	24.64	700.		
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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FORM X PEST-2 OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE14

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266324 Date(s) Analyzed: 07/14/97 07/14/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_	1	17.27	17.20	17.34	670.		
	2	18.22	18.16	18.30	850.		
	3	20.47	20.42	20.56	1700.		
COLUMN 1	4	21.25	21.19	21.33	1400.	1300.	
	5	22.45	22.41	22.55	1800.		
	1	19.92	19.85	19.99	590.		85.7
	2	20.27	20.20	20.34	590.		
	3	21.76	21.68	21.82	400.		
COLUMN 2	4	23.12	23.05	23.19	620.	700.	
	5	24.56	24.50	24.64	1300.		
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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FORM X PEST-2 OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE15

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266325 Date(s) Analyzed: 07/14/97 07/14/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_ COLUMN 1	1	17.28	17.20	17.34	1500.	2300.	
	2	18.21	18.16	18.30	1500.		
	3	20.47	20.42	20.56	2200.		
	4	21.24	21.19	21.33	2700.		
	5	22.45	22.41	22.55	3700.		
COLUMN 2	1	19.92	19.85	19.99	1300.	1300.	76.9
	2	20.26	20.20	20.34	1000.		
	3	21.75	21.68	21.82	640.		
	4	23.11	23.05	23.19	1000.		
	5	24.55	24.50	24.64	2300.		
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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FORM X PEST-2 OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE15 DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266325 Date(s) Analyzed: 07/15/97 07/15/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_ COLUMN 1	1	17.32	17.20	17.34	1700.		
	2	18.24	18.16	18.30	1600.		
	3	20.49	20.42	20.56	2600.		
	4	21.27	21.19	21.33	2800.	2600.	
	5	22.48	22.41	22.55	4400.		
COLUMN 2	1	19.94	19.85	19.99	1800.		30.0
	2	20.28	20.20	20.34	1700.		
	3	21.78	21.68	21.82	1000.		
	4	23.13	23.05	23.19	1600.	2000.	
	5	24.58	24.50	24.64	4000.		
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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FORM X PEST-2 OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE16

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266326 Date(s) Analyzed: 07/14/97 07/14/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_ COLUMN 1	1	17.25	17.20	17.34	160.	200.	
	2	18.23	18.16	18.30	76.		
	3	20.47	20.42	20.56	140.		
	4	21.24	21.19	21.33	280.		
	5	22.45	22.41	22.55	320.		
COLUMN 2	1	19.92	19.85	19.99	290.	170.	17.6
	2	20.27	20.20	20.34	83.		
	3	21.85	21.68	21.82	89.		
	4	23.11	23.05	23.19	100.		
	5	24.56	24.50	24.64	270.		
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE17

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266327 Date(s) Analyzed: 07/14/97 07/14/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_ COLUMN 1	1	17.26	17.20	17.34	110.		
	2	18.22	18.16	18.30	100.		
	3	20.47	20.42	20.56	360.		
	4	21.25	21.19	21.33	220.	250.	
	5	22.44	22.41	22.55	460.		
COLUMN 2	1	19.91	19.85	19.99	160.		31.6
	2	20.27	20.20	20.34	79.		
	3	21.75	21.68	21.82	120.		
	4	23.11	23.05	23.19	130.	190.	
	5	24.56	24.50	24.64	480.		
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE18

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266328 Date(s) Analyzed: 07/14/97 07/14/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_	1	17.26	17.20	17.34	120.		
	2	18.22	18.16	18.30	120.		
	3	20.47	20.42	20.56	200.		
COLUMN 1	4	21.25	21.19	21.33	230.	210.	
	5	22.45	22.41	22.55	390.		
	1	19.91	19.85	19.99	180.		23.5
	2	20.26	20.20	20.34	130.		
	3	21.75	21.68	21.82	120.		
COLUMN 2	4	23.11	23.05	23.19	130.	170.	
	5	24.56	24.50	24.64	290.		
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE19

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266329 Date(s) Analyzed: 07/14/97 07/14/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_	1	17.29	17.20	17.34	75.		
	2	18.24	18.16	18.30	49.		
	3	20.48	20.42	20.56	100.		
COLUMN 1	4	21.25	21.19	21.33	150.	110.	
	5	22.46	22.41	22.55	180.		
	1	19.92	19.85	19.99	50.		50.7
	2	20.27	20.20	20.34	59.		
	3	21.76	21.68	21.82	40.		
COLUMN 2	4	23.12	23.05	23.19	67.	73.	
	5	24.56	24.50	24.64	150.		
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

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OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE20

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266330 Date(s) Analyzed: 07/14/97 07/14/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_ COLUMN 1	1	17.26	17.20	17.34	290.		
	2	18.22	18.16	18.30	330.		
	3	20.47	20.42	20.56	520.		
	4	21.25	21.19	21.33	620.	510.	
	5	22.45	22.41	22.55	810.		
COLUMN 2	1	19.91	19.85	19.99	290.		54.5
	2	20.27	20.20	20.34	310.		
	3	21.76	21.68	21.82	200.		
	4	23.11	23.05	23.19	280.	330.	
	5	24.56	24.50	24.64	590.		
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

page 1 of 1

FORM X PEST-2 OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CDE21

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Lab Sample ID: 266331 Date(s) Analyzed: 07/15/97 07/15/97

Instrument ID (1): 5890 3 Instrument ID (2): 5890 3

GC Column(1): DB-1701 ID: .53 (mm) GC Column(2): DB-608 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254_	1	17.27	17.20	17.34	620.		
	2	18.23	18.16	18.30	840.		
	3	20.48	20.42	20.56	1300.		
COLUMN 1	4	21.26	21.19	21.33	1400.	1500.	
	5	22.44	22.41	22.55	3600.		
	1	19.93	19.85	19.99	520.		127.3
	2	20.27	20.20	20.34	590.		
	3	21.77	21.68	21.82	350.		
COLUMN 2	4	23.12	23.05	23.19	620.	660.	
	5	24.57	24.50	24.64	1200.		
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

R
J

At least 3 peaks for each column are required for identification of multicomponent analytes

Peak Concentration excluded from calculation of mean due to additional flags

page 1 of 1

FORM X PEST-2 OLM03.0

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\DATA_03\CA0622.D\ECD1A.CH Vial: 2
Signal #2 : C:\DATA_03\CA0622.D\ECD2B.CH
Acq On : 7 Jul 97 13:17 Operator:
Sample : RESC01 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 14:32 1997 Quant Results File: CLP_3.RES

Quant Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.19	8.02	373464	130999	17.166	17.304
Spiked Amount 20.000 Range 60 - 150 Recovery =					85.83%	86.52%
22) SA Decachlorobiphen	34.60	40.40	547386	242421	19.653m	21.145
Spiked Amount 20.000 Range 60 - 150 Recovery =					98.26%	105.73%
Target Compounds						
9) A Endosulfan I	18.86	20.82	168975	78571	8.318m	9.235
10) B gamma-Chlordane	19.10	19.80	192741	77286	8.472	8.394
12) B 4,4'-DDE	19.98	22.18	266477	132162	16.722m	16.724
13) MA Dieldrin	20.70	22.51	299953	131903	15.847m	19.342
19) B Endosulfan Sulfa	27.80	28.06	216194	139924	18.938m	18.746
20) A Methoxychlor	28.11	31.80	861812	409793	110.606	116.092
21) B Endrin Ketone	29.91	32.27	294520	150881	20.431m	20.590
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

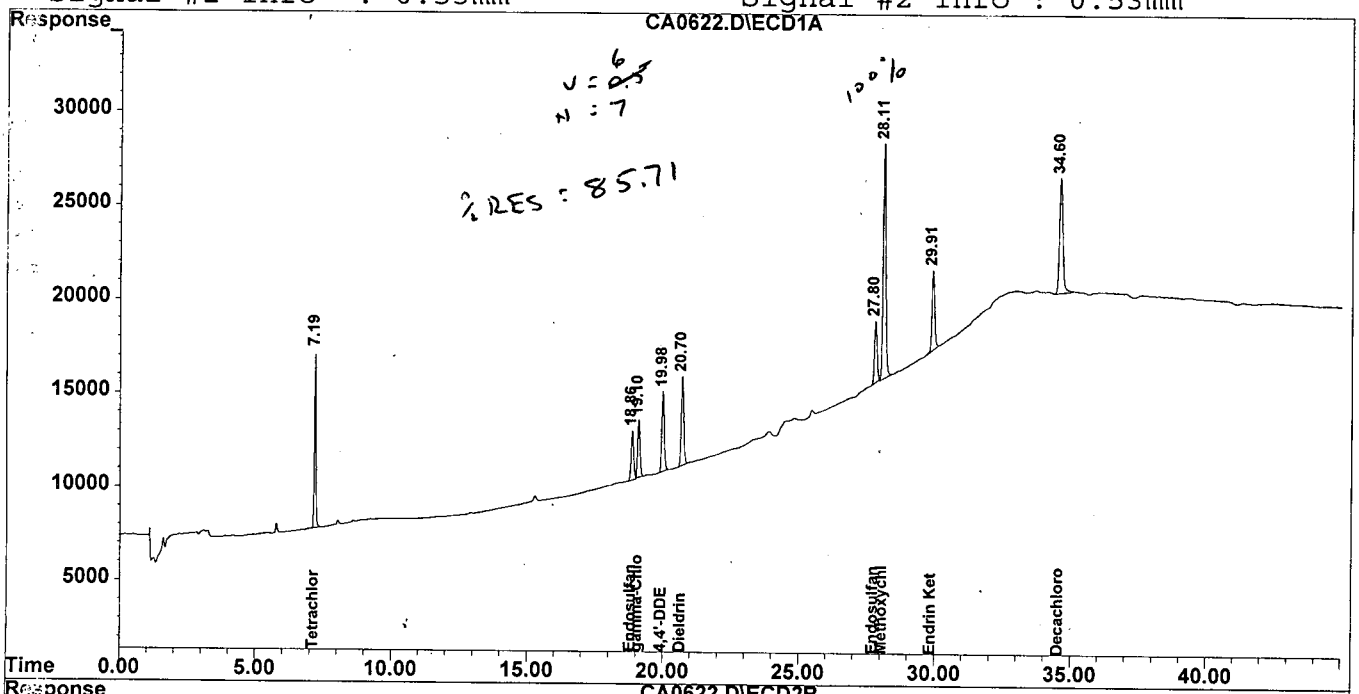
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

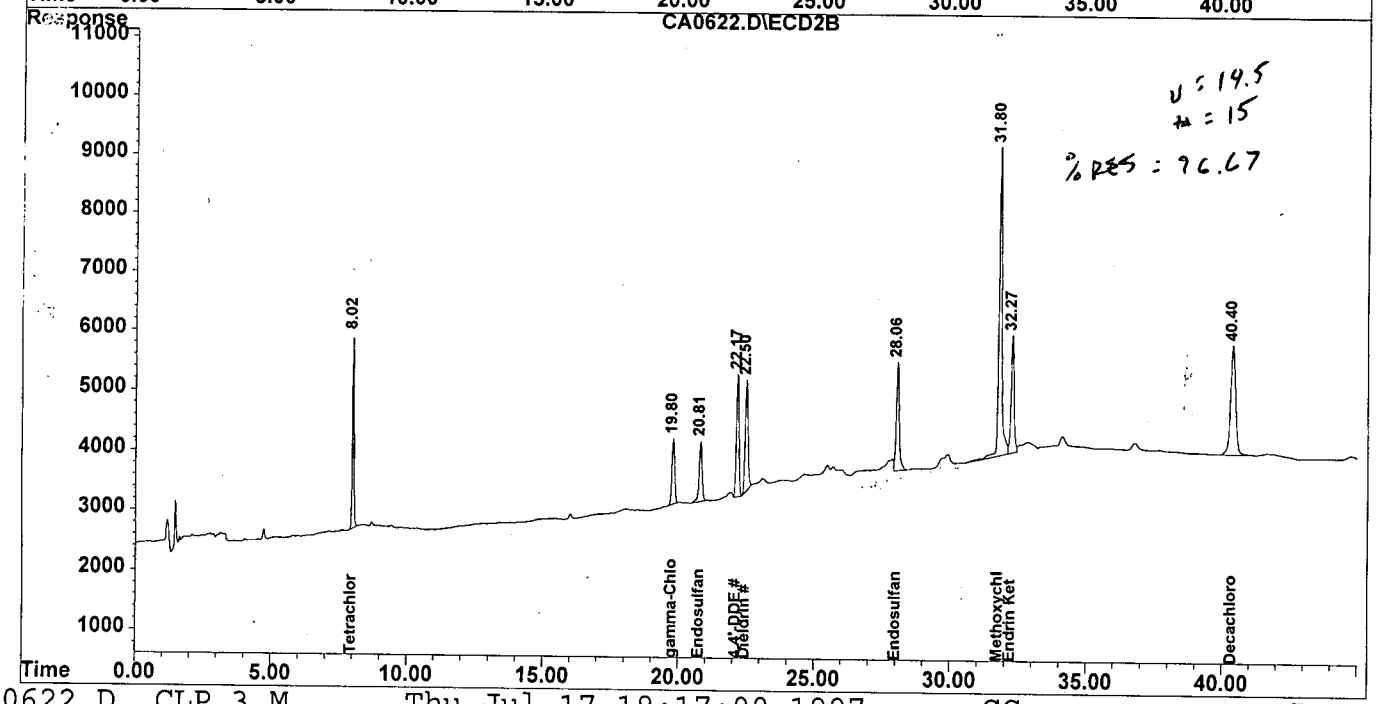
Quantitation Report

Signal #1 : C:\DATA_03\CA0622.D\ECD1A.CH Vial: 2
Signal #2 : C:\DATA_03\CA0622.D\ECD2B.CH
Acq On : 7 Jul 97 13:17 Operator:
Sample : RESC01 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 14:32 1997 Quant Results File: CLP_3.RES

Quant Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

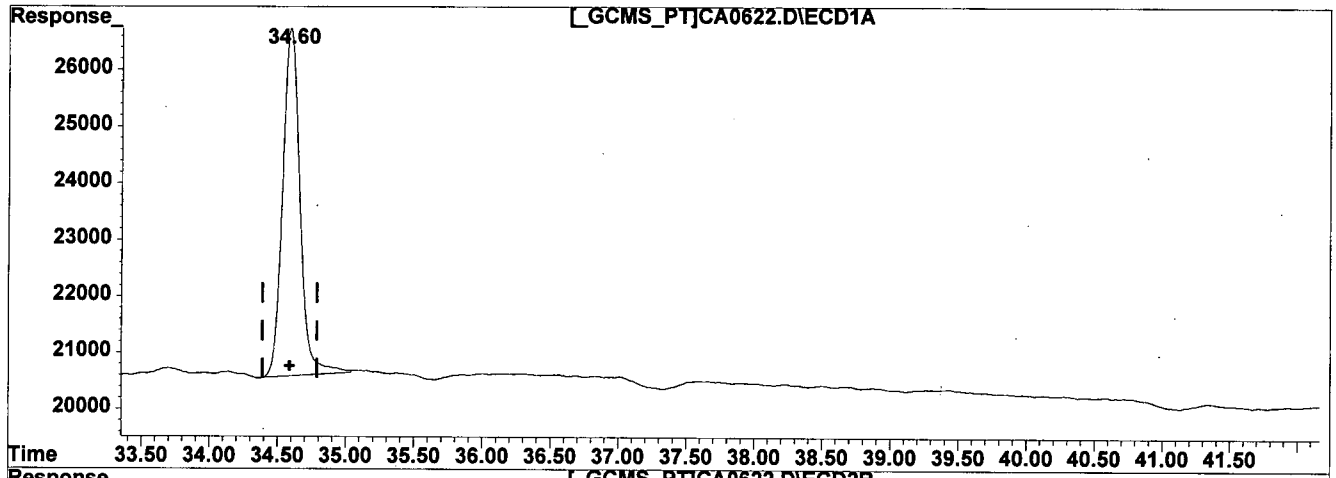


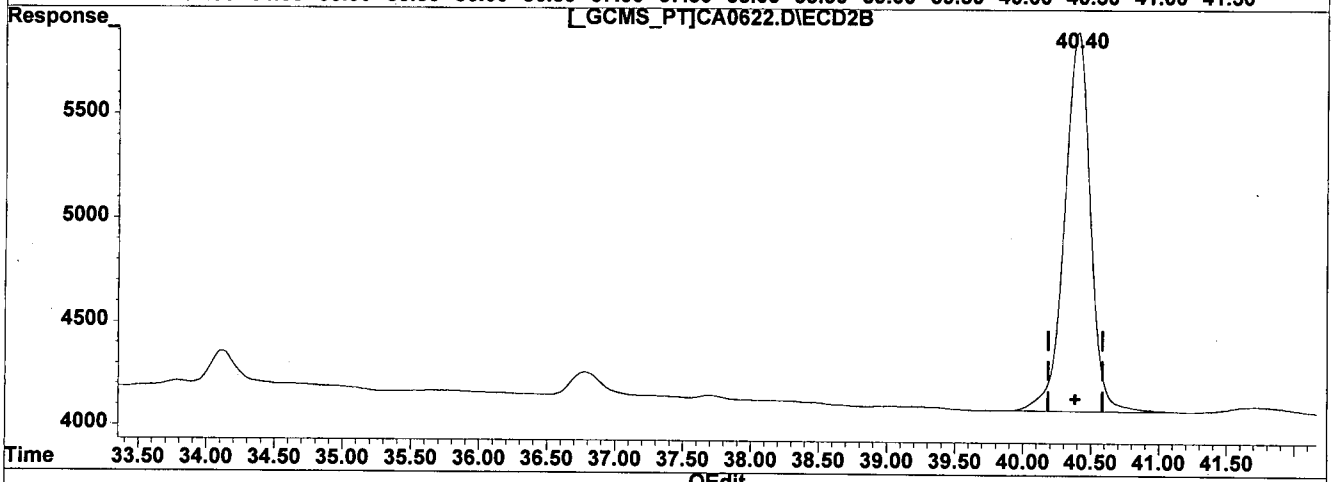


Quantitation Report

Signal #1 : C:\DATA_03\CA0622.D\ECD1A.CH Vial: 2
Signal #2 : C:\DATA_03\CA0622.D\ECD2B.CH
Acq On : 7 Jul 97 13:17 Operator:
Sample : RESC01 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 14:32 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

34.60min 19.653ng/ml m

response 547386

(22) Decachlorobiphenyl #2 (SA)

40.40min 21.145ng/ml

response 242421

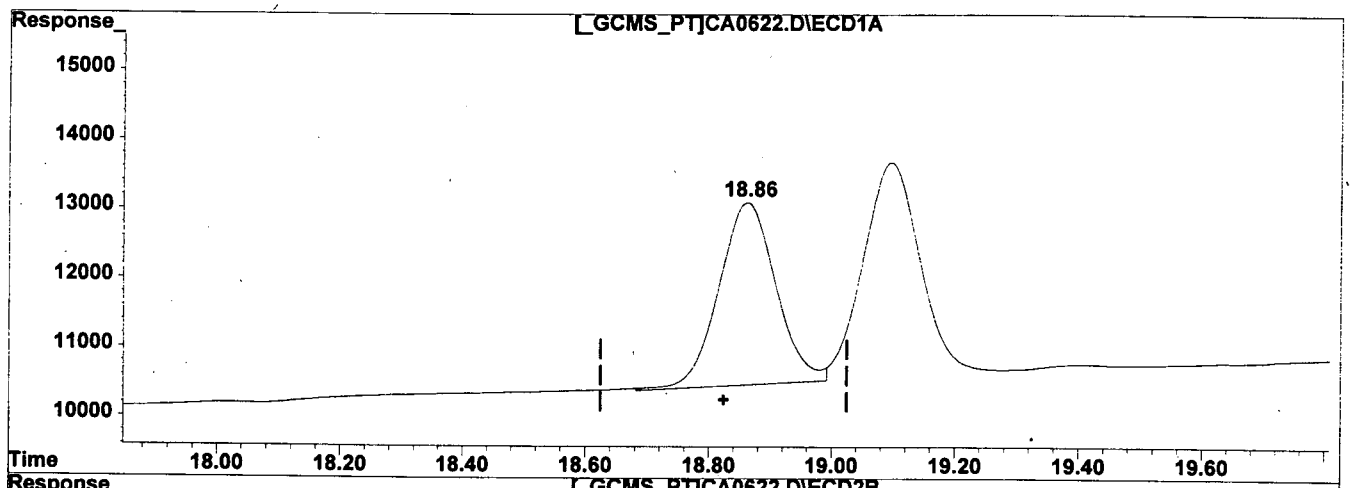
(+) = Expected Retention Time

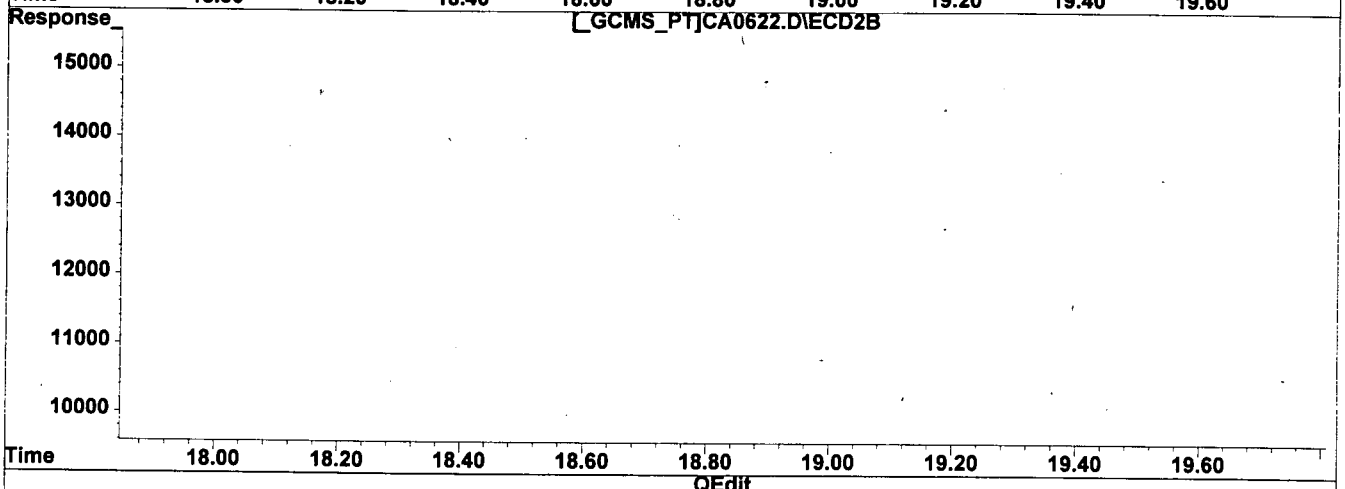
CA0622.D CLP_3.M Wed Jul 23 11:12:08 1997 GC

Quantitation Report

Signal #1 : C:\DATA_03\CA0622.D\ECD1A.CH Vial: 2
Signal #2 : C:\DATA_03\CA0622.D\ECD2B.CH
Acq On : 7 Jul 97 13:17 Operator:
Sample : RESC01 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 14:32 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(9) Endosulfan I (A)

18.86min 8.318ng/ml m

response 168975

(9) Endosulfan I #2 (A)

20.82min 9.235ng/ml

response 78571

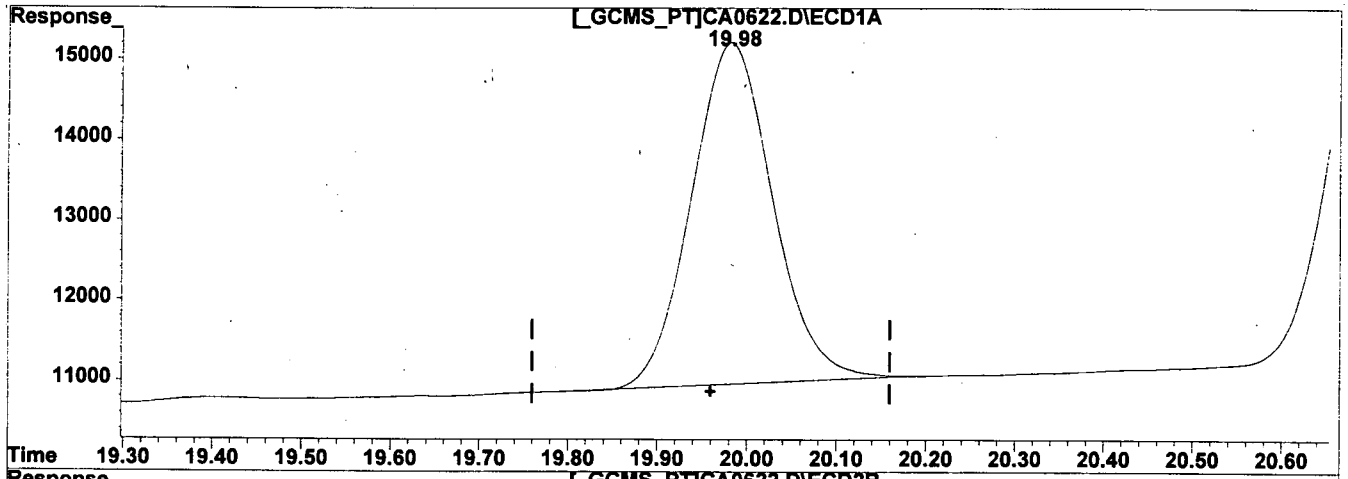
(+) = Expected Retention Time

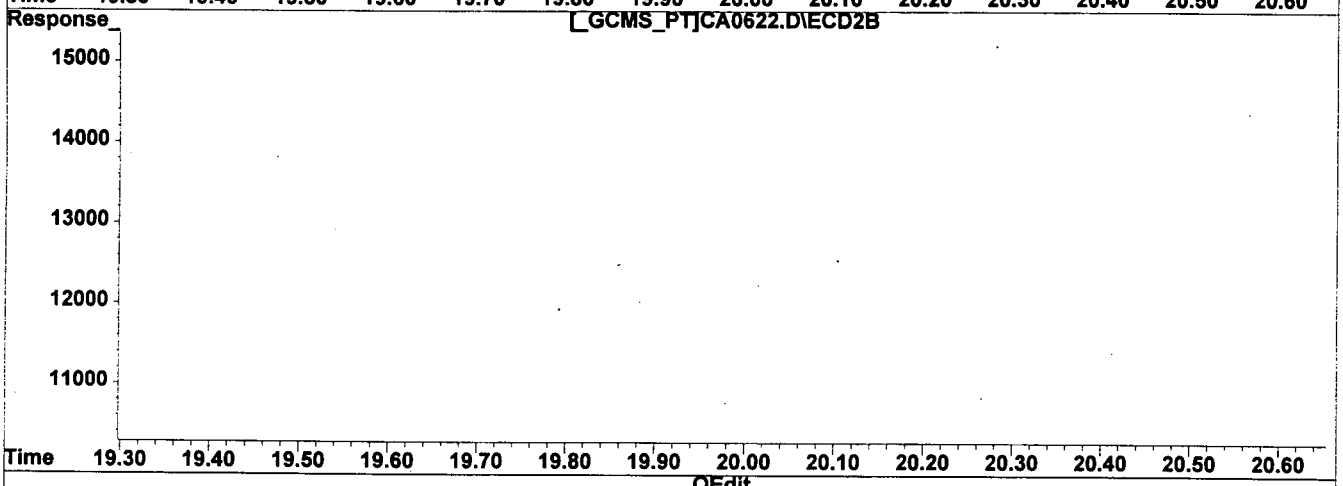
CA0622.D CLP_3.M Tue Jul 15 16:15:24 1997 GC

Quantitation Report

Signal #1 : C:\DATA_03\CA0622.D\ECD1A.CH Vial: 2
Signal #2 : C:\DATA_03\CA0622.D\ECD2B.CH
Acq On : 7 Jul 97 13:17 Operator:
Sample : RESC01 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 14:32 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(12) 4,4'-DDE (B)

19.98min 16.722ng/ml m

response 266477

(12) 4,4'-DDE #2 (B)

22.18min 16.724ng/ml

response 132162

(+) = Expected Retention Time

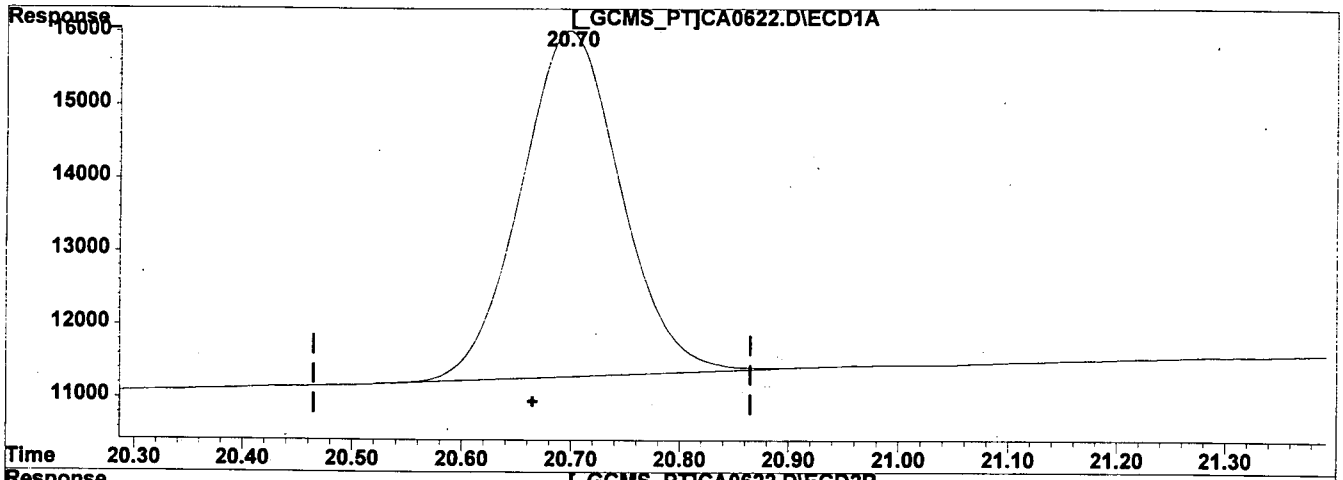
CA0622.D CLP_3.M Tue Jul 15 16:20:10 1997 GC

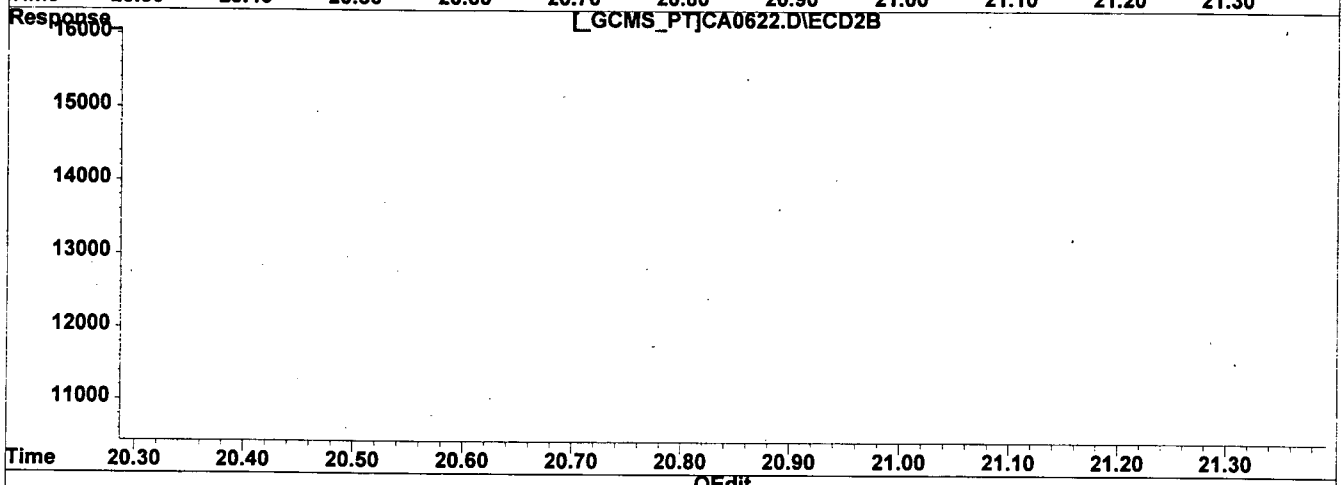
Quantitation Report

Signal #1 : C:\DATA_03\CA0622.D\ECD1A.CH
Signal #2 : C:\DATA_03\CA0622.D\ECD2B.CH
Acq On : 7 Jul 97 13:17
Sample : RESC01
Misc :
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 14:32 1997 Quant Results File: CLP_3.RES

Vial: 2
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(13) Dieldrin (MA)

20.70min 15.847ng/ml m

response 299953

(13) Dieldrin #2 (MA)

22.51min 19.342ng/ml

response 131903

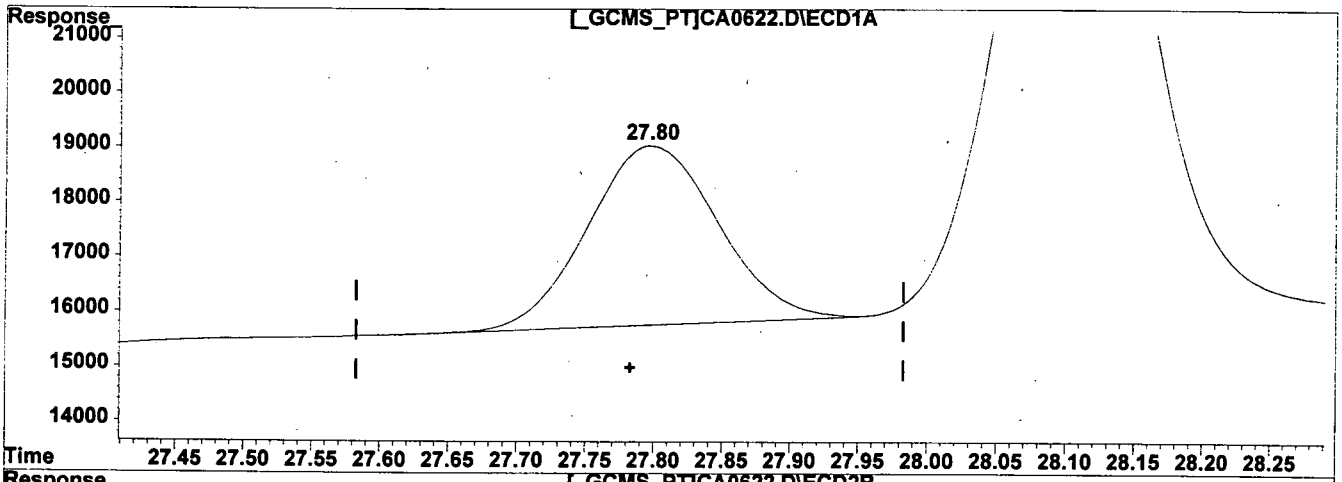
(+) = Expected Retention Time

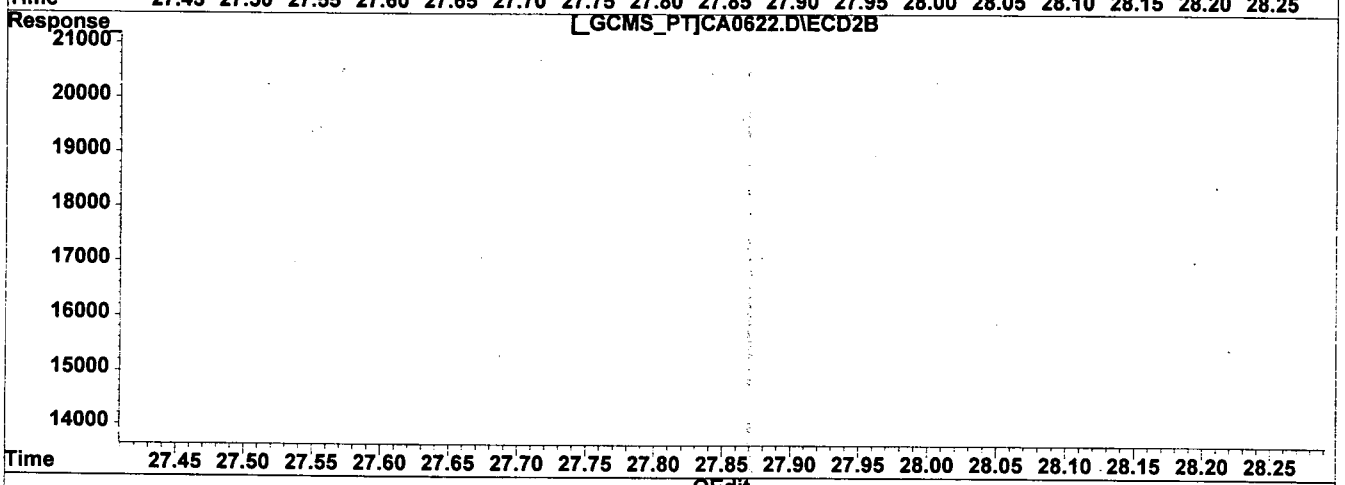
CA0622.D CLP_3.M Tue Jul 15 16:20:20 1997 GC

Quantitation Report

Signal #1 : C:\DATA_03\CA0622.D\ECD1A.CH Vial: 2
Signal #2 : C:\DATA_03\CA0622.D\ECD2B.CH
Acq On : 7 Jul 97 13:17 Operator:
Sample : RESC01 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 14:32 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(19) Endosulfan Sulfate (B)

27.80min 18.938ng/ml m

response 216194

(19) Endosulfan Sulfate #2 (B)

28.06min 18.746ng/ml

response 139924

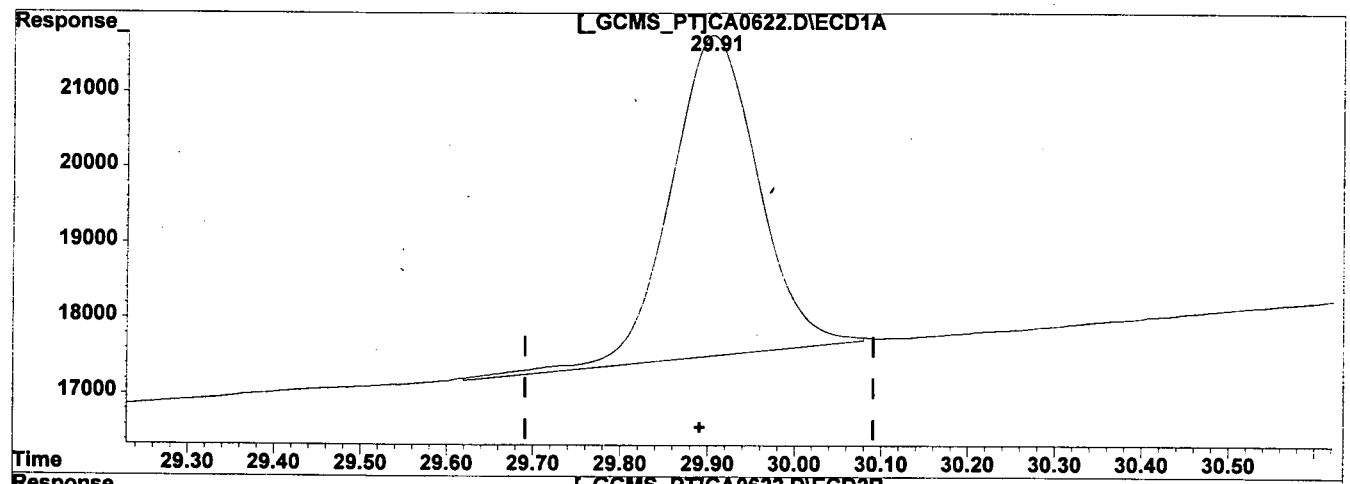
(+) = Expected Retention Time

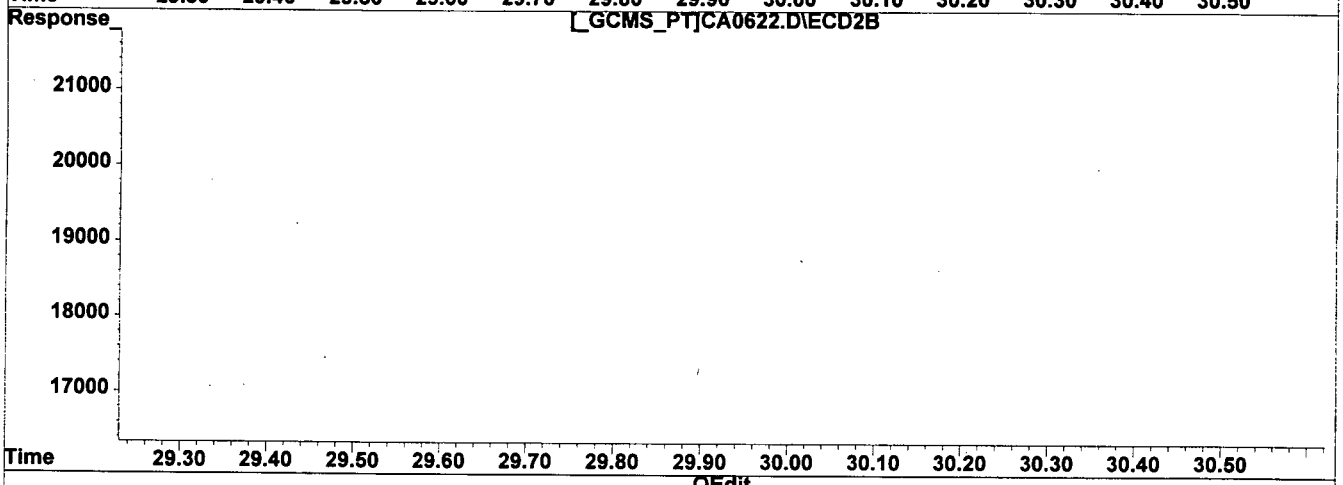
CA0622.D CLP_3.M Tue Jul 15 16:20:29 1997 GC

Quantitation Report

Signal #1 : C:\DATA_03\CA0622.D\ECD1A.CH Vial: 2
Signal #2 : C:\DATA_03\CA0622.D\ECD2B.CH
Acq On : 7 Jul 97 13:17 Operator:
Sample : RESC01 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 14:32 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(21) Endrin Ketone (B)

29.91min 20.431ng/ml m

response 294520

(21) Endrin Ketone #2 (B)

32.27min 20.590ng/ml

response 150881

(+) = Expected Retention Time

CA0622.D CLP_3.M Tue Jul 15 16:20:45 1997 GC

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\DATA_03\CA0623.D\ECD1A.CH Vial: 3
Signal #2 : C:\DATA_03\CA0623.D\ECD2B.CH
Acq On : 7 Jul 97 15:20 Operator:
Sample : PEM01 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 17 19:51 1997 Quant Results File: CLP_3.RES

Quant Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	ng inj
System Monitoring Compounds							
1) SA Tetrachloro-m-xy	7.19	8.02	395740	133954	18.190	17.694	0.020
Spiked Amount 20.000 Range 60 - 150 Recovery =					90.95%	88.47%	
22) SA Decachlorobiphen	34.60	40.39	509477	236323	18.292	20.613	0.020
Spiked Amount 20.000 Range 60 - 150 Recovery =					91.46%	103.07%	
Target Compounds							
2) A alpha-BHC	10.12	10.73	166156	59403	8.693	8.927	0.010
3) MA gamma-BHC	11.81	12.61	166080	63590	8.469	9.225	
4) B beta-BHC	15.15	12.97	116297	43083	9.587m	10.306	
12) B 4,4'-DDE	20.00	0.00	15221	0	0.955m	N.D.	#
14) MA Endrin	21.74	24.51	858864	376743	54.180	55.539m	0.050
16) A 4,4'-DDD	23.95	0.00	31452	0	2.930m	N.D.	#
17) MA 4,4'-DDT	24.88	26.90	954840	578739	114.724	111.271	0.100
20) A Methoxychlor	28.10	31.80	2301944	934591	295.436m	264.765	0.250
21) B Endrin Ketone	0.00	32.27	0	11896	N.D.	1.623	#
Sum Aroclor-1016			0	0	N.D.	N.D.	
Average Aroclor-1016					0.000	0.000	
Sum Aroclor-1221	50	1701	0	0	N.D.	N.D.	
Average Aroclor-1221	%DDT 3.89	0			0.000	0.000	
Sum Aroclor-1232			0	0	N.D.	N.D.	
Average Aroclor-1232	%Eld 0	3.25			0.000	0.000	
Sum Aroclor-1242			0	0	N.D.	N.D.	
Average Aroclor-1242					0.000	0.000	
Sum Aroclor-1248			0	0	N.D.	N.D.	
Average Aroclor-1248					0.000	0.000	
Sum Aroclor-1254			0	0	N.D.	N.D.	
Average Aroclor-1254					0.000	0.000	
Sum Aroclor-1260			0	0	N.D.	N.D.	
Average Aroclor-1260					0.000	0.000	

DMS 7/17/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\DATA_03\CA0623.D\ECD1A.CH Vial: 3
Signal #2 : C:\DATA_03\CA0623.D\ECD2B.CH
Acq On : 7 Jul 97 15:20 Operator:
Sample : PEM01 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 17 19:51 1997 Quant Results File: CLP_3.RES

Quant Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

DMW 5/19/97

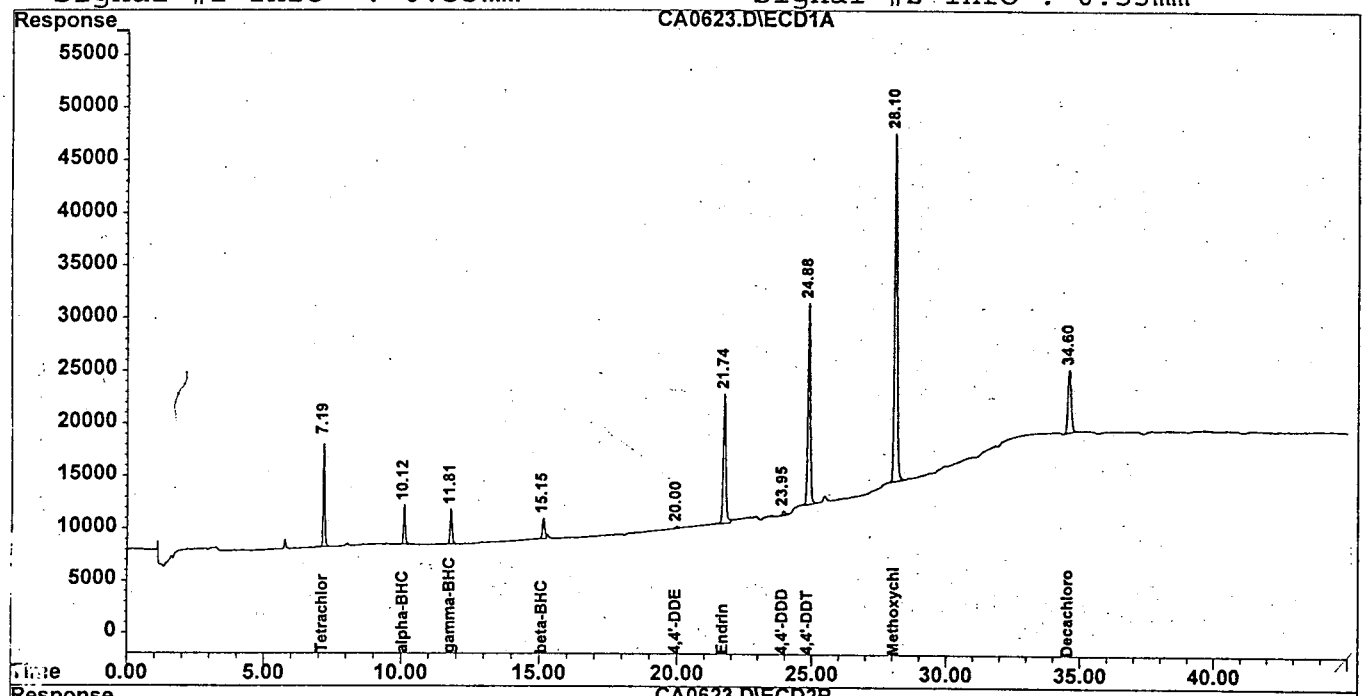
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

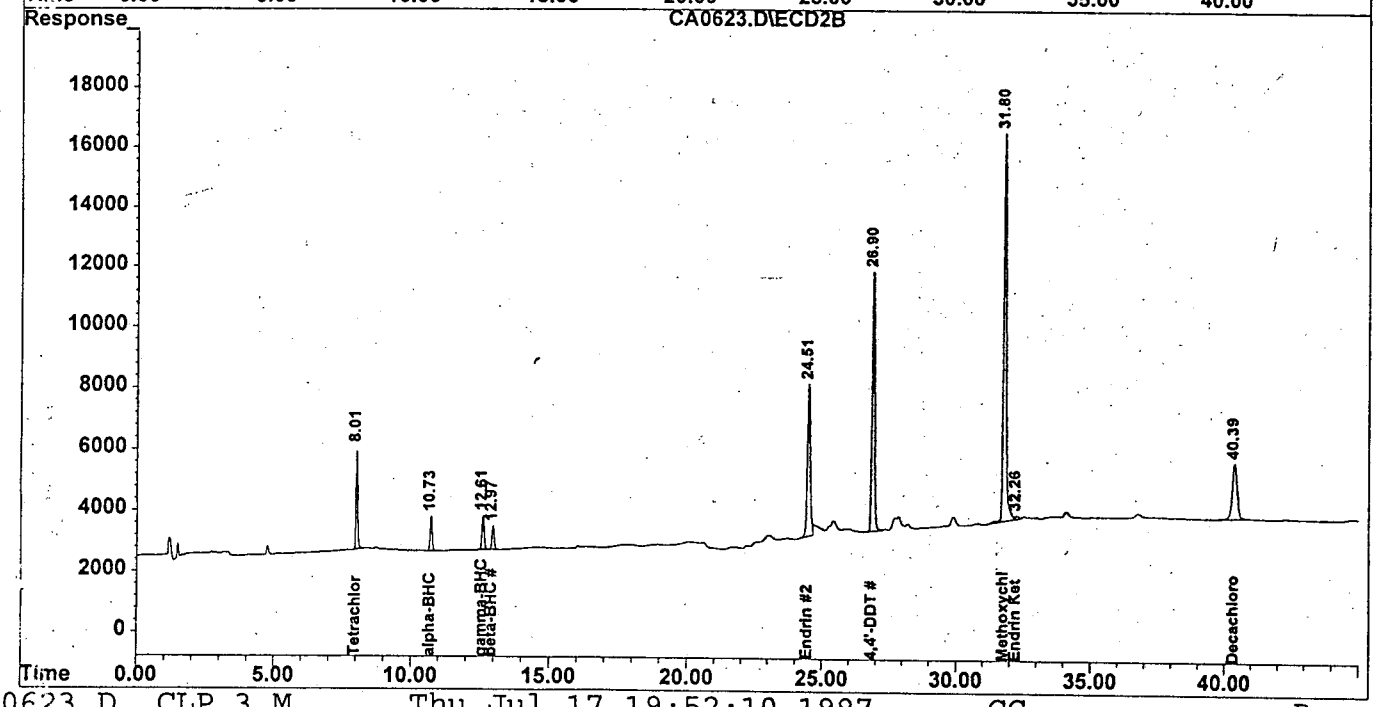
Quantitation Report

Signal #1 : C:\DATA_03\CA0623.D\ECD1A.CH Vial: 3
Signal #2 : C:\DATA_03\CA0623.D\ECD2B.CH
Acq On : 7 Jul 97 15:20 Operator:
Sample : PEM01 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 17 19:51 1997 Quant Results File: CLP_3.RES

Quant Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

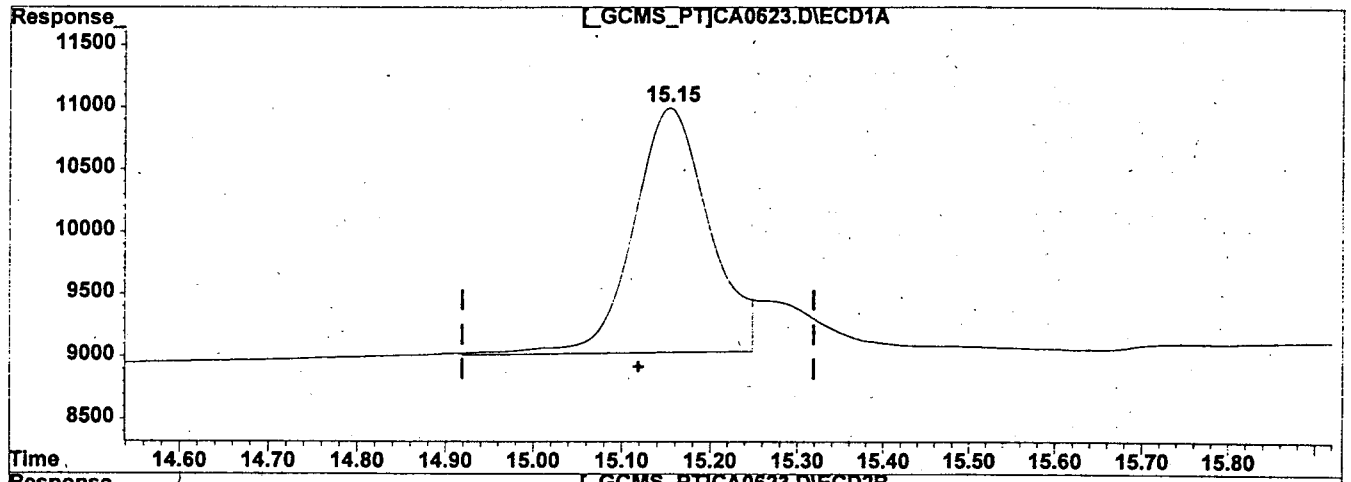


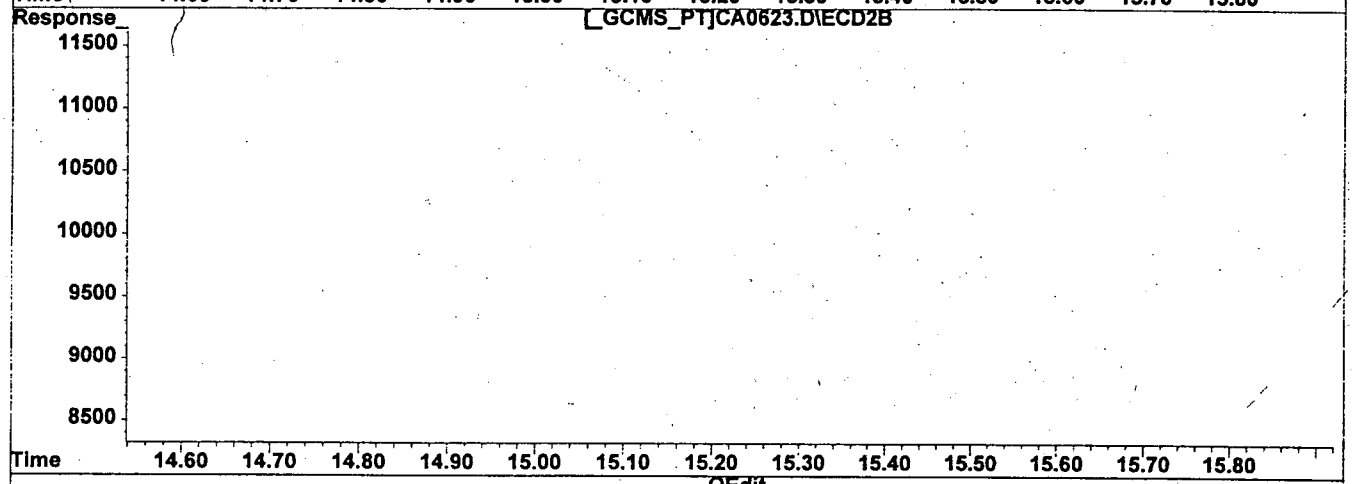


Quantitation Report

Signal #1 : C:\DATA_03\CA0623.D\ECD1A.CH Vial: 3
Signal #2 : C:\DATA_03\CA0623.D\ECD2B.CH
Acq On : 7 Jul 97 15:20 Operator:
Sample : PEM01 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 14:38 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(6) beta-BHC (B)

15.15min 9.587ng/ml m

response 116297

(6) beta-BHC #2 (B)

12.97min 10.306ng/ml

response 43083

(+) = Expected Retention Time

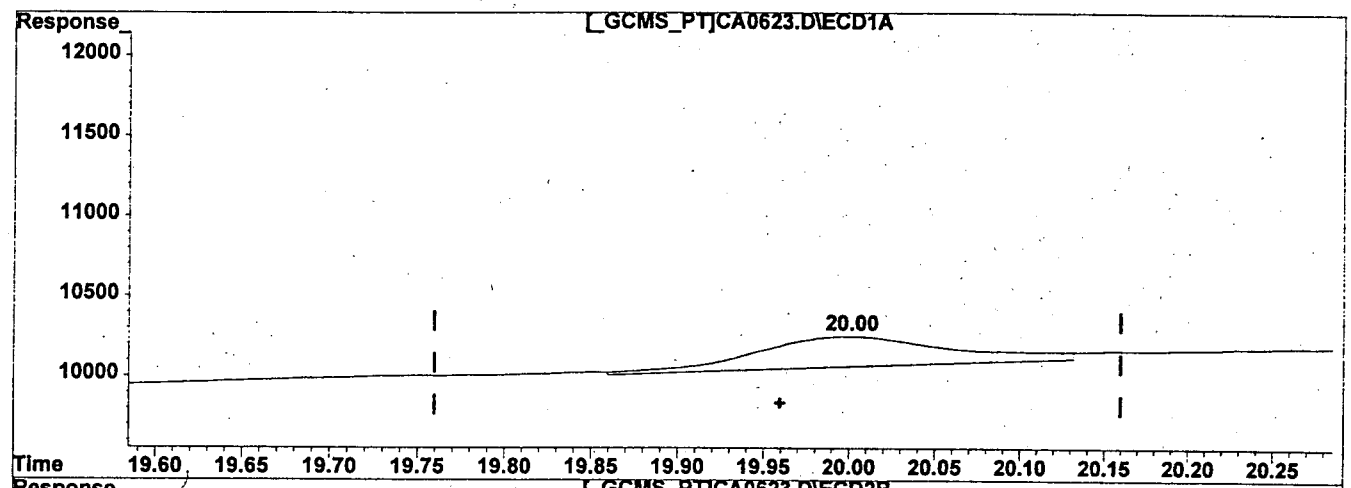
CA0623.D CLP_3.M Tue Jul 15 16:21:34 1997 GC

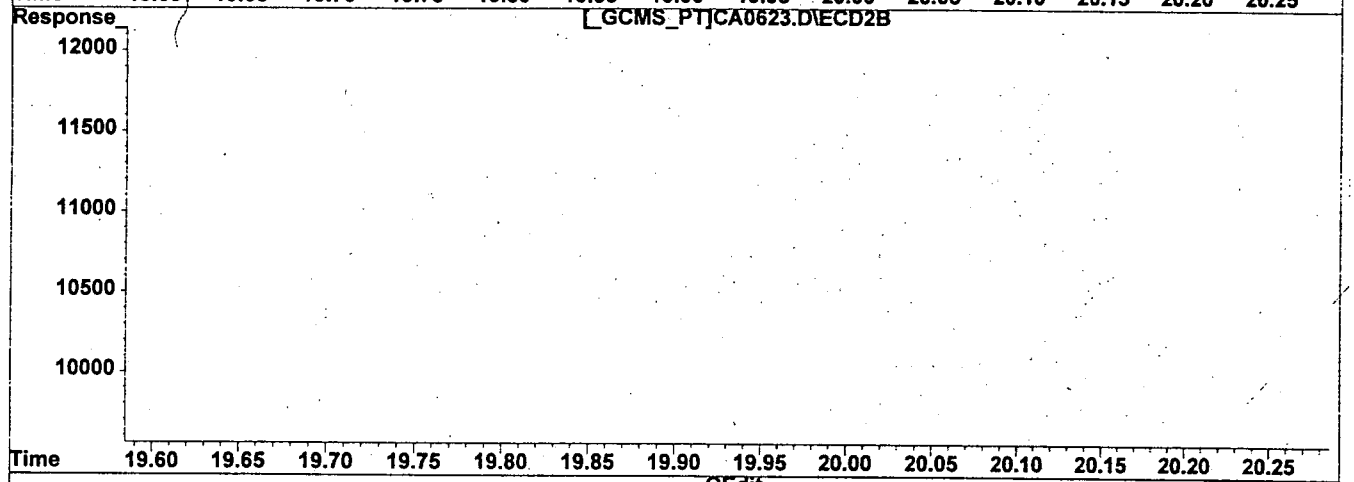
Quantitation Report

Signal #1 : C:\DATA_03\CA0623.D\ECD1A.CH
Signal #2 : C:\DATA_03\CA0623.D\ECD2B.CH
Acq On : 7 Jul 97 15:20
Sample : PEM01
Misc :
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 14:38 1997 Quant Results File: CLP_3.RES

Vial: 3
Operator:
Inst : GC_5890_3
Multiplr: 1.00

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(12) 4,4'-DDE (B)

20.00min 0.955ng/ml m

response 15221

(12) 4,4'-DDE #2 (B)

0.00min 0.000ng/ml

response 0

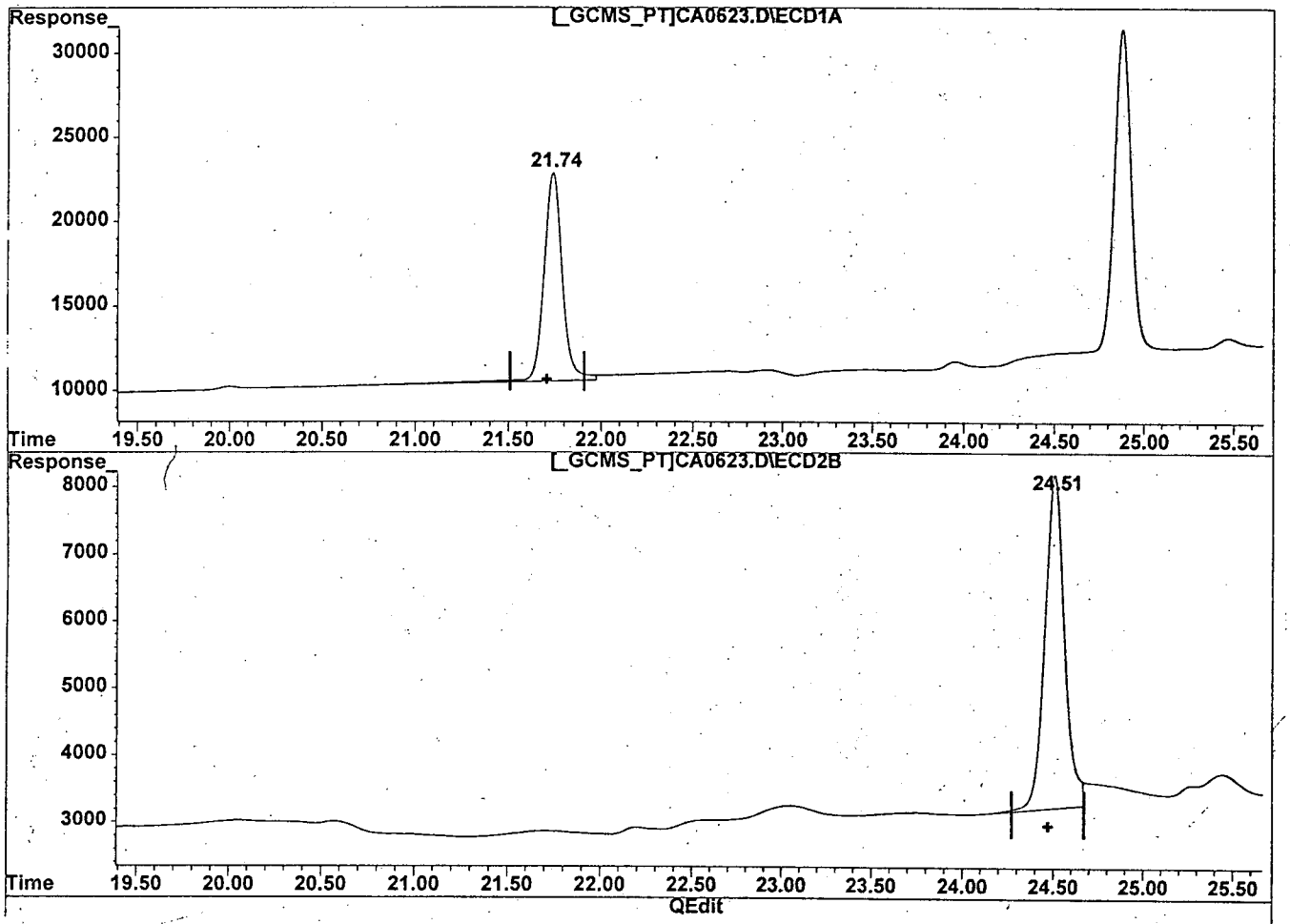
(+) = Expected Retention Time

CA0623.D CLP_3.M Tue Jul 15 16:21:44 1997 GC

Quantitation Report

Signal #1 : C:\DATA_03\CA0623.D\ECD1A.CH Vial: 3
Signal #2 : C:\DATA_03\CA0623.D\ECD2B.CH
Acq On : 7 Jul 97 15:20 Operator:
Sample : PEM01 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 17 19:51 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration



(14) Endrin (MA)

21.74min 54.180ng/ml

response 858864

(14) Endrin #2 (MA)

24.51min 55.539ng/ml m

response 376743

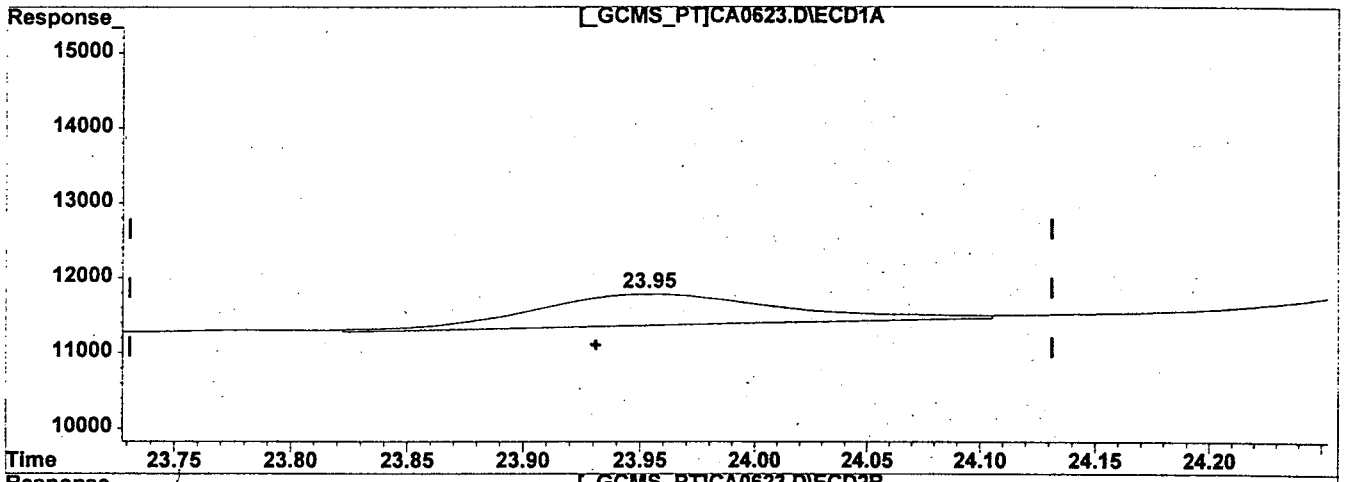
(+) = Expected Retention Time

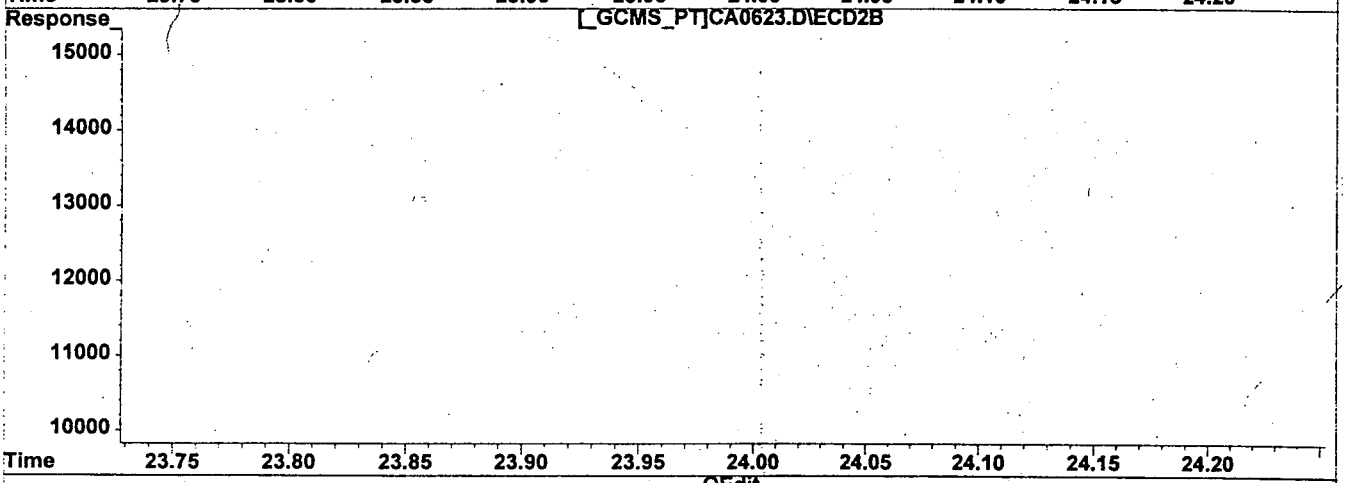
CA0623.D CLP_3.M Thu Jul 17 19:52:36 1997 GC

Quantitation Report

Signal #1 : C:\DATA_03\CA0623.D\ECD1A.CH Vial: 3
Signal #2 : C:\DATA_03\CA0623.D\ECD2B.CH
Acq On : 7 Jul 97 15:20 Operator:
Sample : PEM01 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 14:38 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(16) 4,4'-DDD (A)

23.95min 2.930ng/ml m

response 31452

(16) 4,4'-DDD #2 (A)

0.00min 0.000ng/ml

response 0

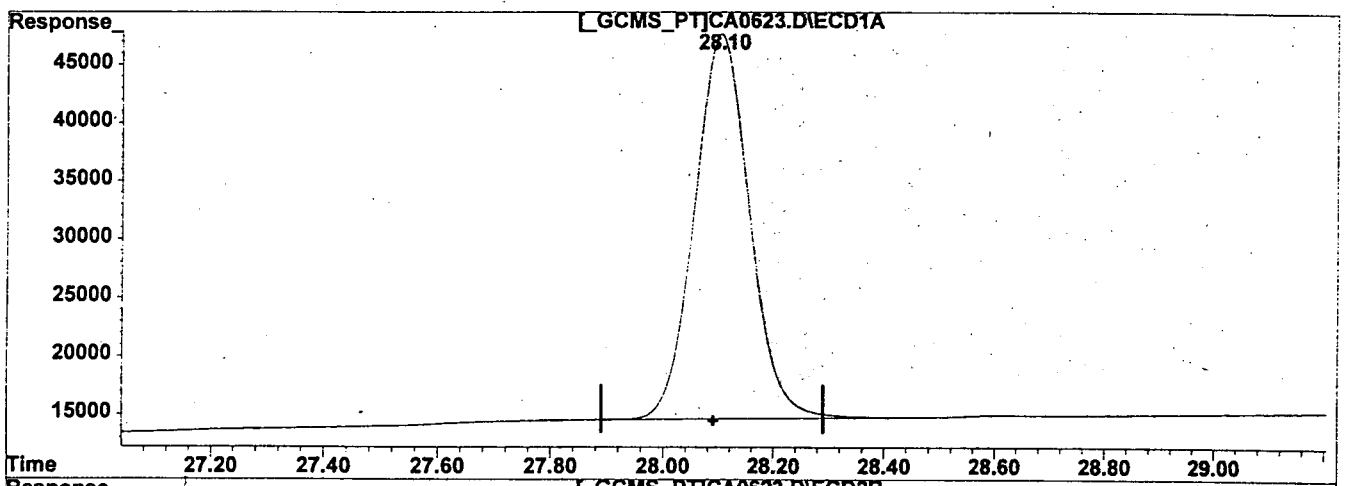
(+) = Expected Retention Time

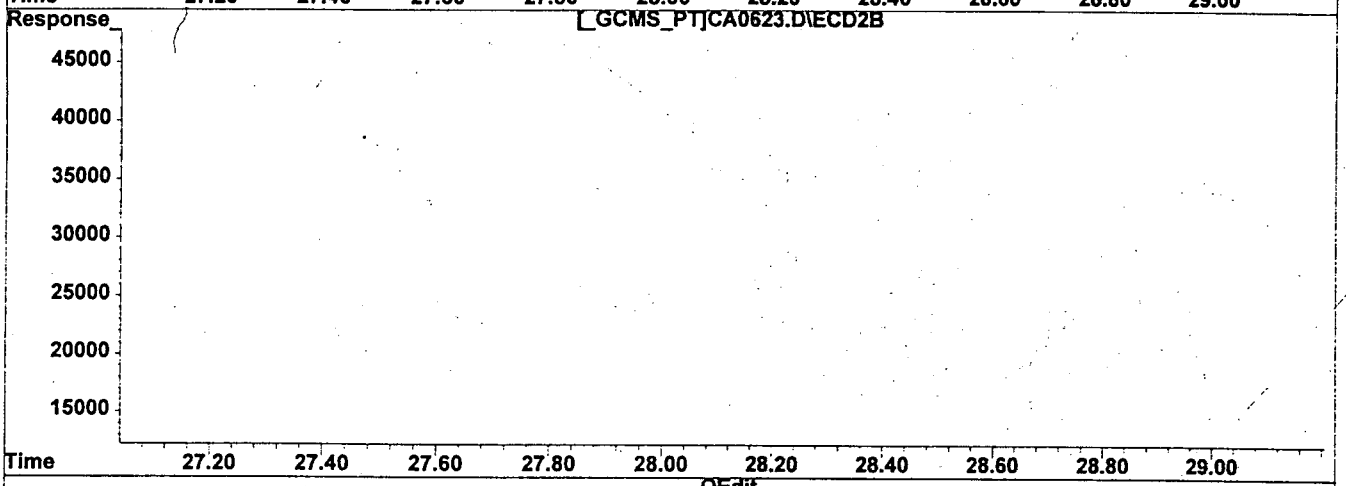
CA0623.D CLP_3.M Tue Jul 15 16:22:03 1997 GC

Quantitation Report

Signal #1 : C:\DATA_03\CA0623.D\ECD1A.CH Vial: 3
Signal #2 : C:\DATA_03\CA0623.D\ECD2B.CH
Acq On : 7 Jul 97 15:20 Operator:
Sample : PEM01 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 14:38 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(20) Methoxychlor (A)

28.10min 295.436ng/ml m

response 2301944

(20) Methoxychlor #2 (A)

31.80min 264.765ng/ml

response 934591

(+) = Expected Retention Time

CA0623.D CLP_3.M Tue Jul 15 16:22:23 1997 GC

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\DATA_03\CA0638.D\ECD1A.CH Vial: 2
Signal #2 : C:\DATA_03\CA0638.D\ECD2B.CH
Acq On : 8 Jul 97 14:20 Operator:
Sample : PEM02 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 11:39 1997 Quant Results File: CLP_3.RES

Quant Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
System Monitoring Compounds							ng INJ
1) SA Tetrachloro-m-xy	7.16	7.98	418660	144896	19.234	19.204	0.020
Spiked Amount 20.000 Range 60 - 150 Recovery =					96.17%	96.02%	
22) SA Decachlorobiphen	34.59	40.38	542936	231990	20.313m	20.958	0.020
Spiked Amount 20.000 Range 60 - 150 Recovery =					101.57%	104.79%	
Target Compounds							
2) A alpha-BHC	10.08	10.69	169598	61768	8.873	9.282	0.010
3) MA gamma-BHC	11.78	12.57	174575	64362	8.902	9.337	↓
6) B beta-BHC	15.13	12.93	123821	44597	10.207	10.668	↓
12) B 4,4'-DDE	0.00	22.17	0	16623	N.D.	2.103m#	
14) MA Endrin	21.72	24.48	703114	328300	44.354	48.398	0.050
16) A 4,4'-DDD	23.95	25.25	59891	21382	5.579m	4.563	
17) MA 4,4'-DDT	24.87	26.89	1001975	544125	120.387	104.616	0.100
20) A Methoxychlor	28.10	31.79	1963018	876044	251.937	248.179	0.050
21) B Endrin Ketone	29.91	32.26	15679	7837	1.088m	1.069m	
Sum Aroclor-1016			0	0	N.D.	N.D.	
Average Aroclor-1016					0.000	0.000	
Sum Aroclor-1221			0	0	N.D.	N.D.	
Average Aroclor-1221					0.000	0.000	
Sum Aroclor-1232			0	0	N.D.	N.D.	
Average Aroclor-1232					0.000	0.000	
Sum Aroclor-1242			0	0	N.D.	N.D.	
Average Aroclor-1242					0.000	0.000	
Sum Aroclor-1248			0	0	N.D.	N.D.	
Average Aroclor-1248					0.000	0.000	
Sum Aroclor-1254			0	0	N.D.	N.D.	
Average Aroclor-1254					0.000	0.000	
Sum Aroclor-1260			0	0	N.D.	N.D.	
Average Aroclor-1260					0.000	0.000	

% Breakdown
single signal
DDT 5.58 6.67
Endrin 2.18 2.14

M 7/11/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\DATA_03\CA0638.D\ECD1A.CH Vial: 2
Signal #2 : C:\DATA_03\CA0638.D\ECD2B.CH
Acq On : 8 Jul 97 14:20 Operator:
Sample : PEM02 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 11:39 1997 Quant Results File: CLP_3.RES

Quant Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0634.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

7/22 7/11/97

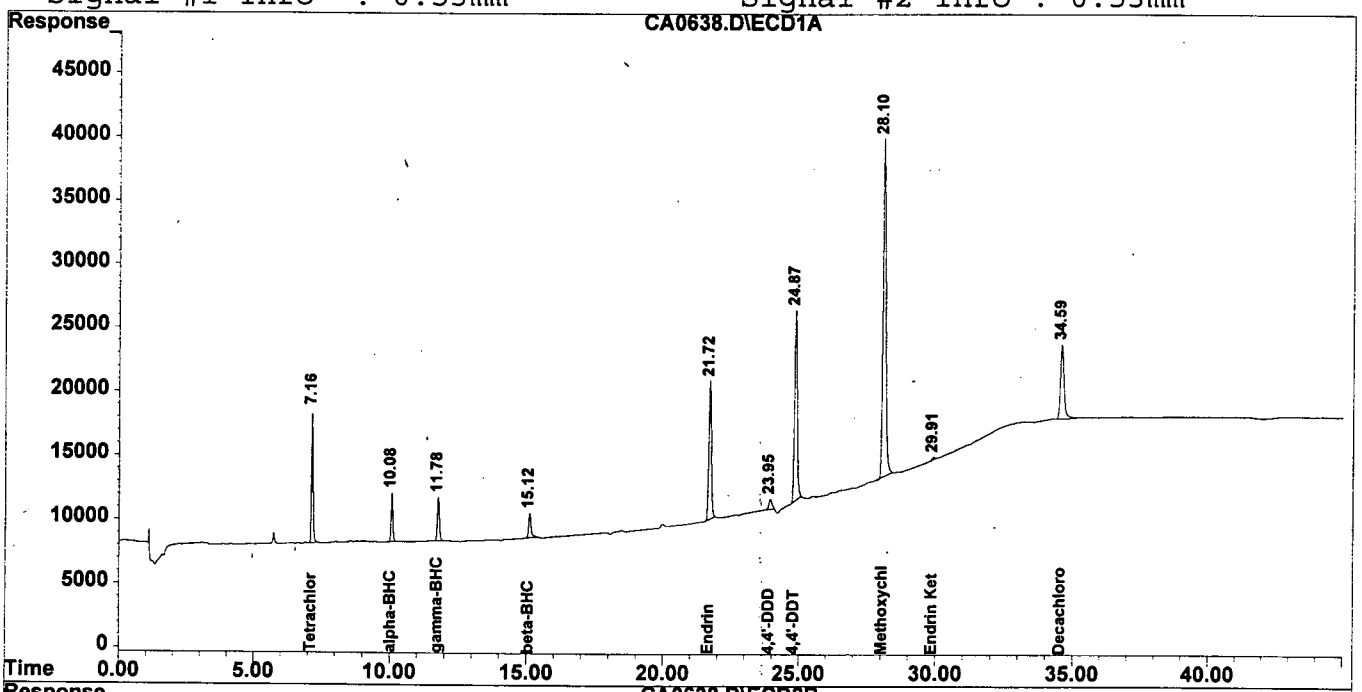
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

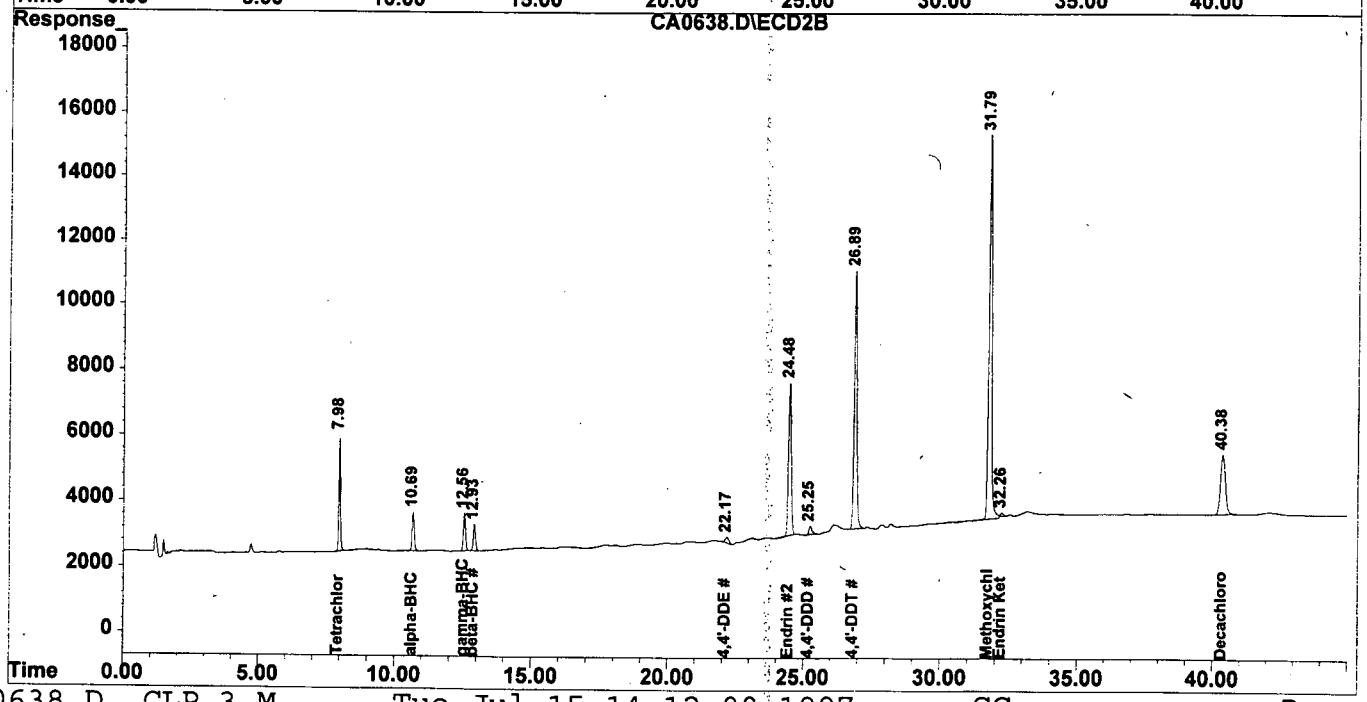
Quantitation Report

Signal #1 : C:\DATA_03\CA0638.D\ECD1A.CH Vial: 2
Signal #2 : C:\DATA_03\CA0638.D\ECD2B.CH
Acq On : 8 Jul 97 14:20 Operator:
Sample : PEM02 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 11:39 1997 Quant Results File: CLP_3.RES

Quant Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

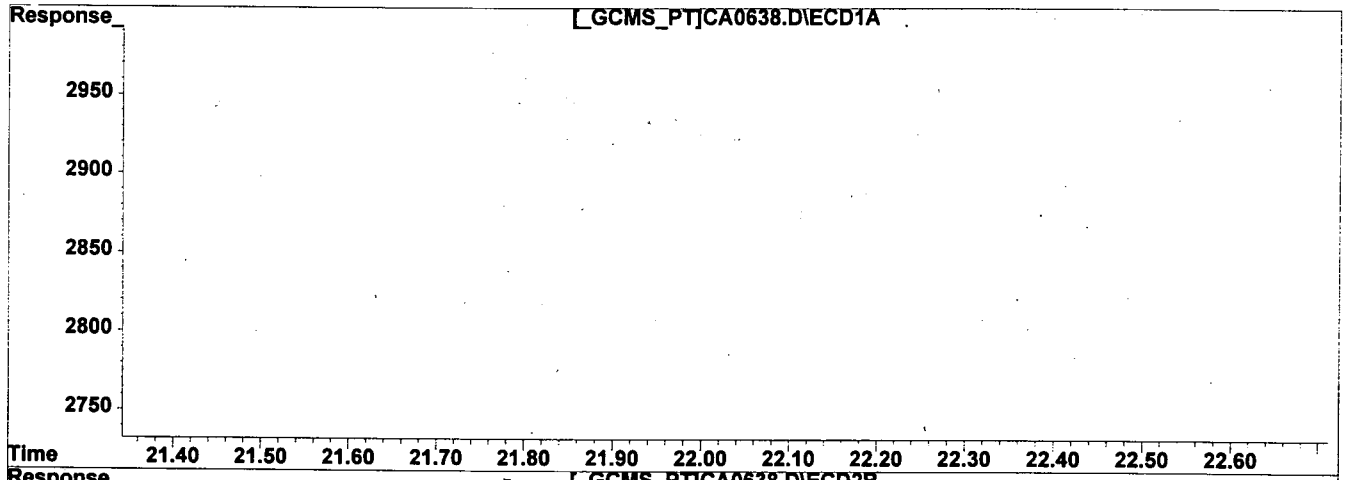


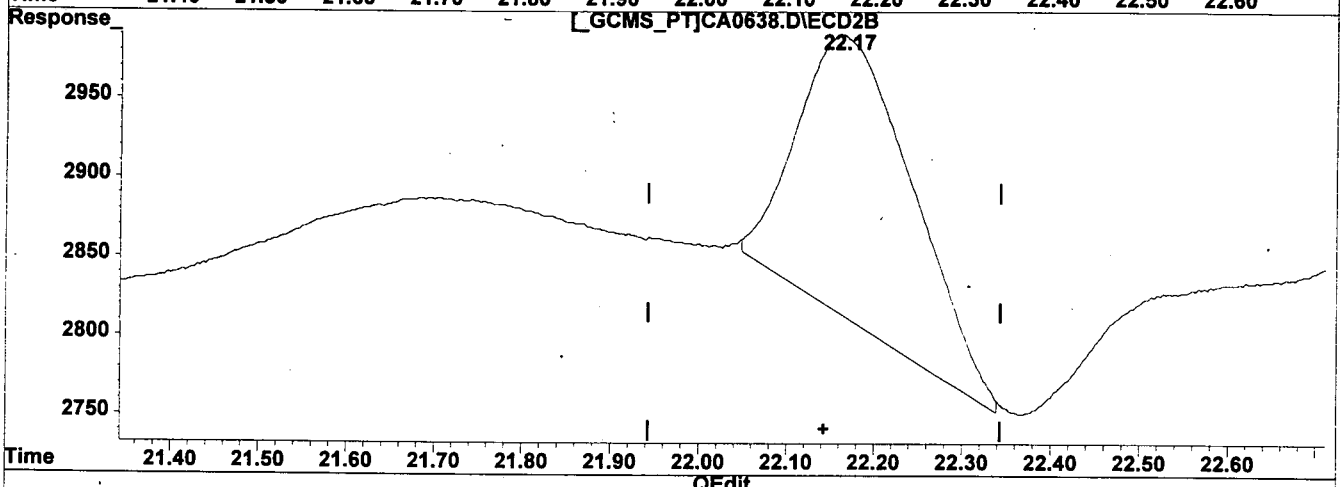


Quantitation Report

Signal #1 : C:\DATA_03\CA0638.D\ECD1A.CH Vial: 2
Signal #2 : C:\DATA_03\CA0638.D\ECD2B.CH
Acq On : 8 Jul 97 14:20 Operator:
Sample : PEM02 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 11:39 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(12) 4,4'-DDE (B)

0.00min 0.000ng/ml

response 0

(12) 4,4'-DDE #2 (B)

22.17min 2.103ng/ml m

response 16623

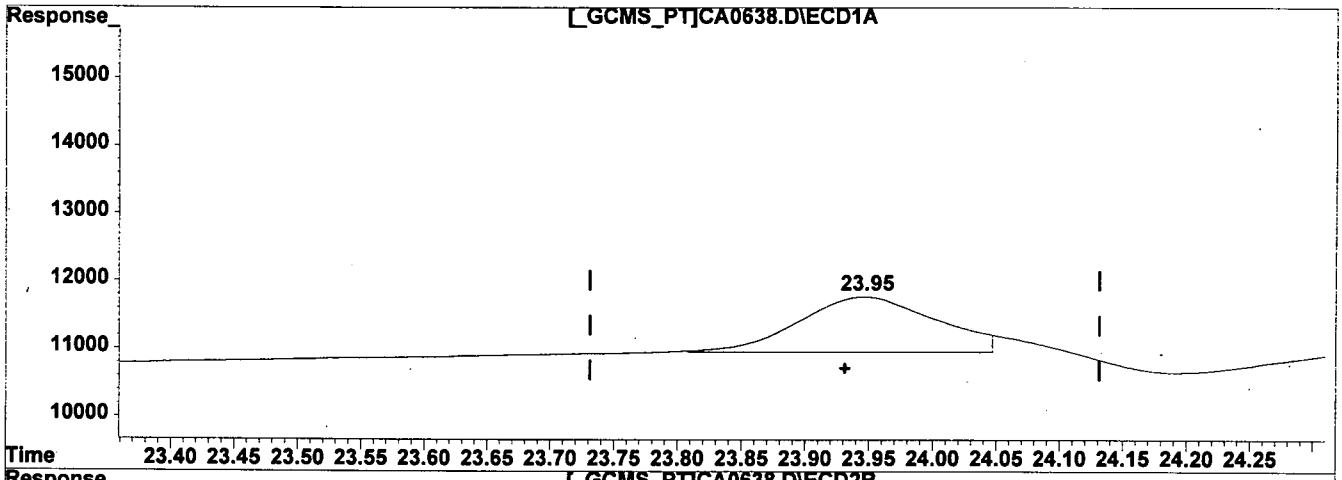
(+) = Expected Retention Time

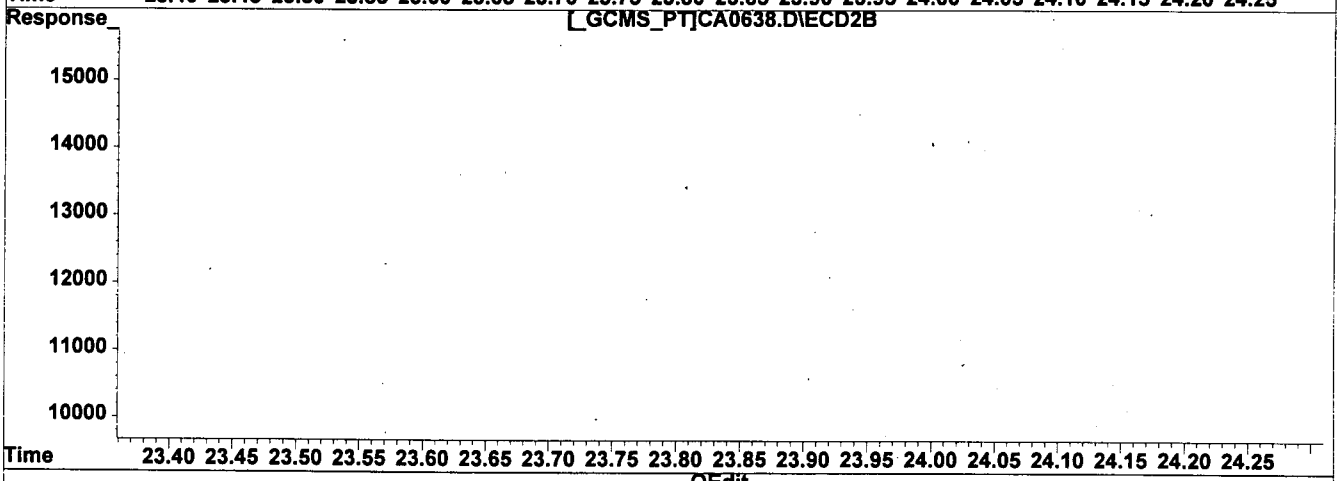
CA0638.D CLP_3.M Tue Jul 15 16:48:10 1997 GC

Quantitation Report

Signal #1 : C:\DATA_03\CA0638.D\ECD1A.CH Vial: 2
Signal #2 : C:\DATA_03\CA0638.D\ECD2B.CH
Acq On : 8 Jul 97 14:20 Operator:
Sample : PEM02 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 11:39 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(16) 4,4'-DDD (A)

23.95min 5.579ng/ml m

response 59891

(16) 4,4'-DDD #2 (A)

25.25min 4.563ng/ml

response 21382

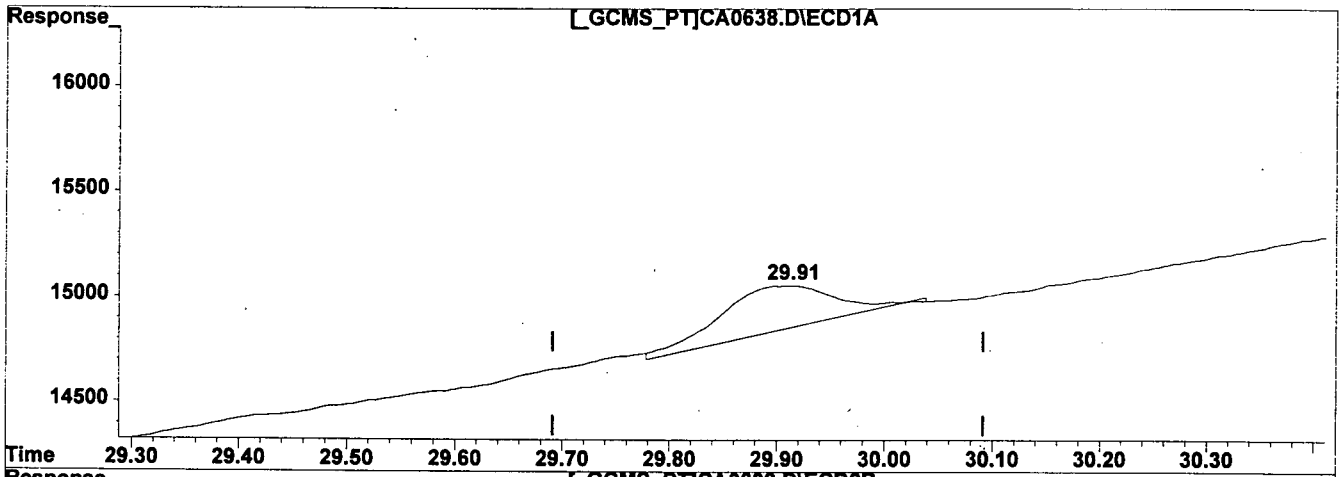
(+) = Expected Retention Time

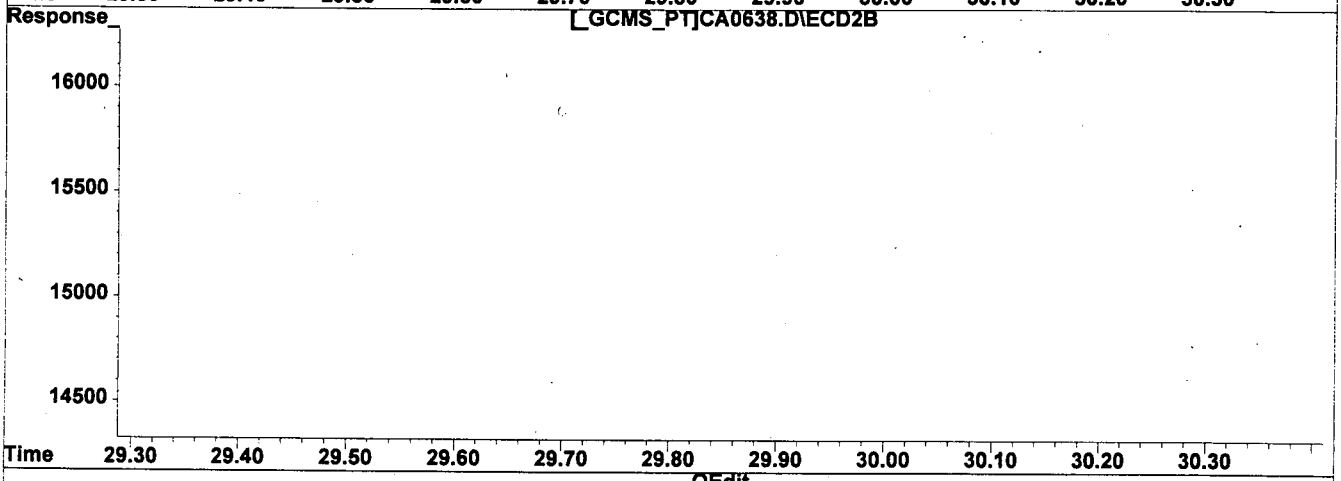
CA0638.D CLP_3.M Tue Jul 15 16:48:20 1997 GC

Quantitation Report

Signal #1 : C:\DATA_03\CA0638.D\ECD1A.CH Vial: 2
Signal #2 : C:\DATA_03\CA0638.D\ECD2B.CH
Acq On : 8 Jul 97 14:20 Operator:
Sample : PEM02 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 11:39 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(21) Endrin Ketone (B)

29.91min 1.088ng/ml m

response 15679

(21) Endrin Ketone #2 (B)

32.26min 1.069ng/ml m

response 7837

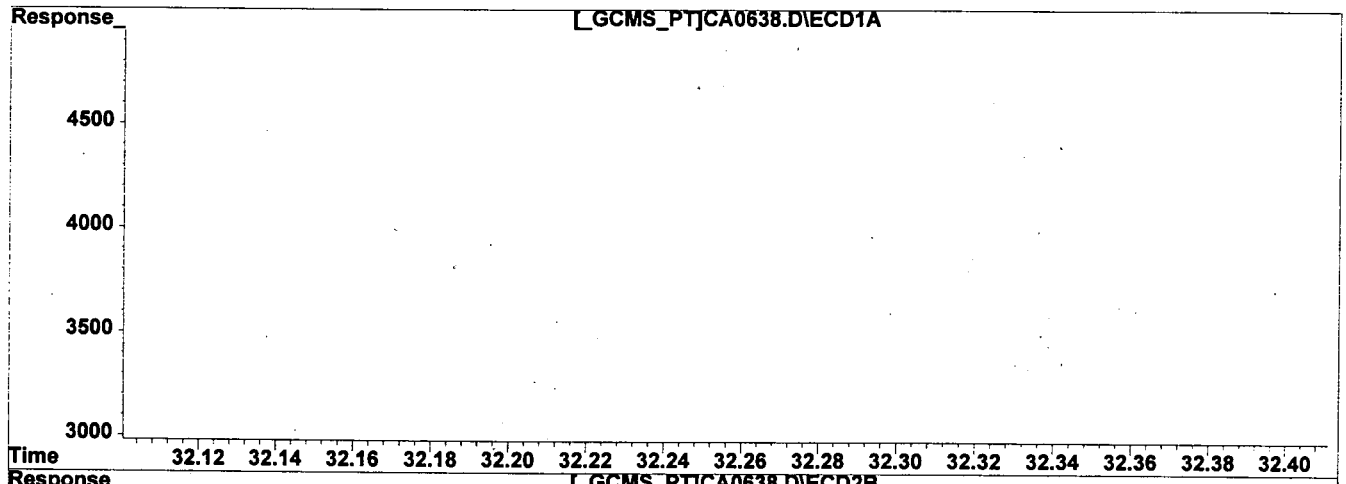
(+) = Expected Retention Time

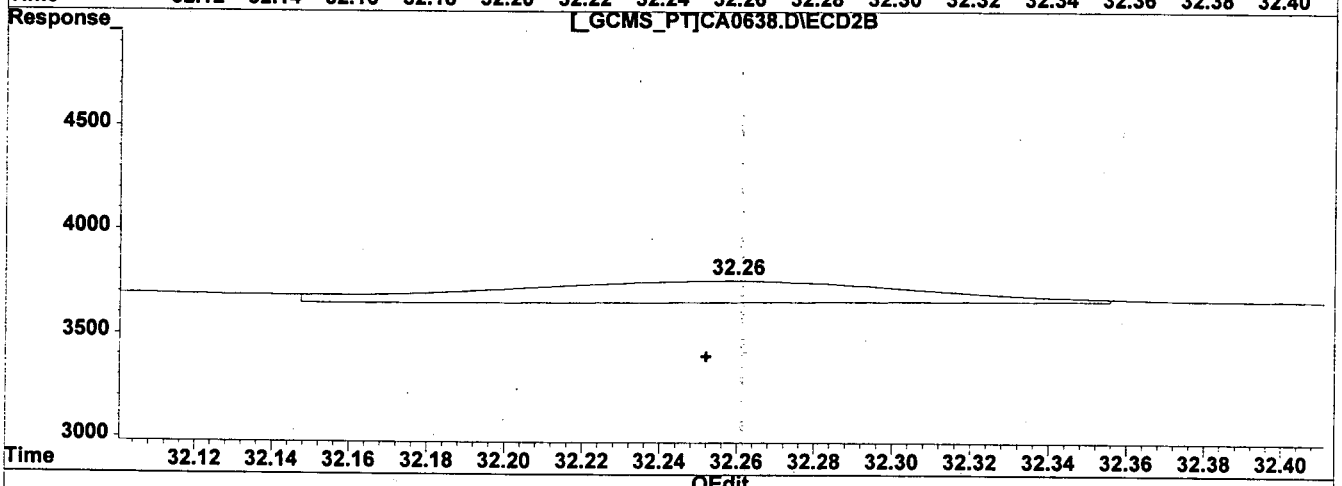
CA0638.D CLP_3.M Tue Jul 15 16:48:33 1997 GC

Quantitation Report

Signal #1 : C:\DATA_03\CA0638.D\ECD1A.CH Vial: 2
Signal #2 : C:\DATA_03\CA0638.D\ECD2B.CH
Acq On : 8 Jul 97 14:20 Operator:
Sample : PEM02 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 11:39 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(21) Endrin Ketone (B)

29.91min 1.088ng/ml m

response 15679

(21) Endrin Ketone #2 (B)

32.26min 1.069ng/ml m

response 7837

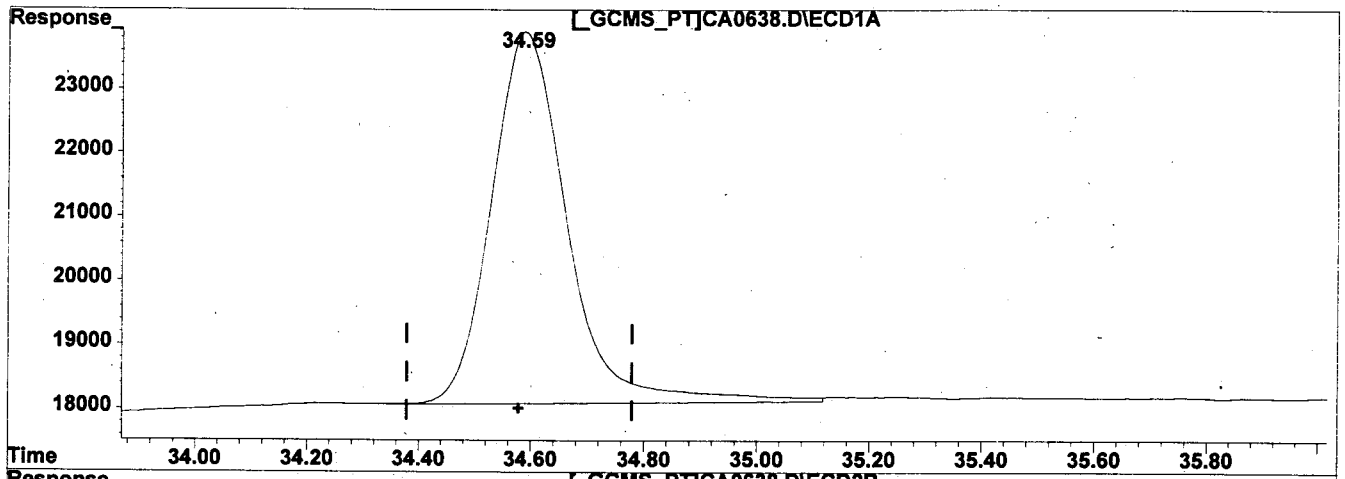
(+) = Expected Retention Time

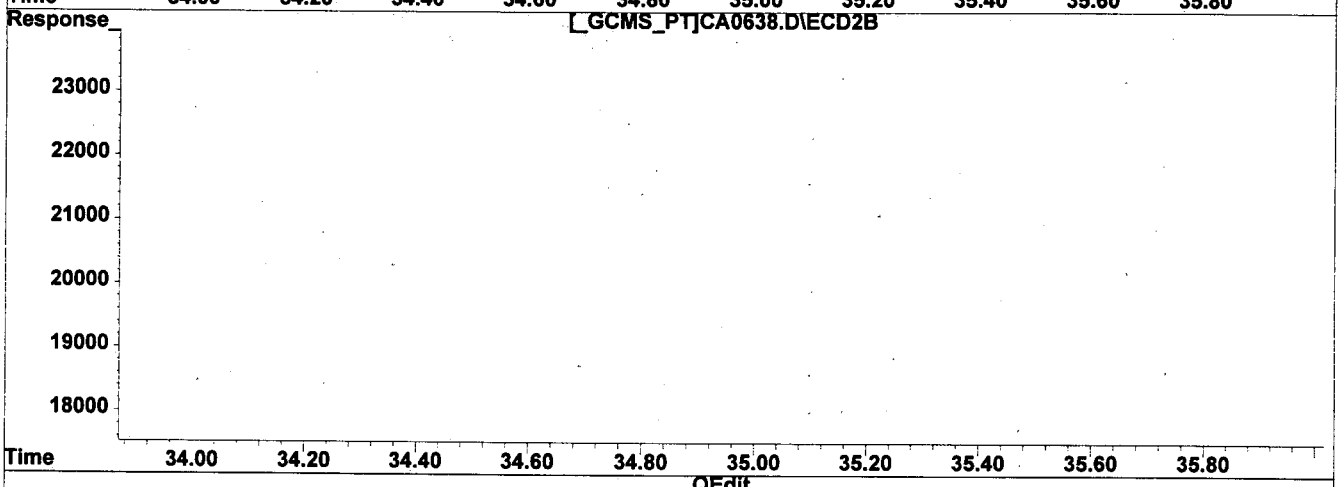
CA0638.D CLP_3.M Tue Jul 15 16:48:41 1997 GC

Quantitation Report

Signal #1 : C:\DATA_03\CA0638.D\ECD1A.CH Vial: 2
Signal #2 : C:\DATA_03\CA0638.D\ECD2B.CH
Acq On : 8 Jul 97 14:20 Operator:
Sample : PEM02 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 11:39 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

34.59min 20.313ng/ml m

response 542936

(22) Decachlorobiphenyl #2 (SA)

40.38min 20.958ng/ml

response 231990

(+) = Expected Retention Time

CA0638.D CLP_3.M Tue Jul 15 16:48:51 1997 GC

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\DATA_03\CA0624.D\ECD1A.CH Vial: 4
Signal #2 : C:\DATA_03\CA0624.D\ECD2B.CH
Acq On : 7 Jul 97 16:09 Operator:
Sample : AR166001 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 11:07 1997 Quant Results File: CLP_3.RES

Quant Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0624.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
System Monitoring Compounds							
1) SA Tetrachloro-m-xy	7.16	7.97	430444	148789	20.000	20.000	ng 105 0.010
Spiked Amount 20.000 Range 60 - 150 Recovery =					100.00%	100.00%	
22) SA Decachlorobiphen	34.59	40.37	507348	229119	40.250	40.000	0.010
Spiked Amount 20.000 Range 60 - 150 Recovery =					201.25%#	200.00%#	
Target Compounds							
23) L1 Aroclor-1016{1}	9.04	10.50	60364	20399	100.000	100.000	0.100
24) L1 Aroclor-1016{2}	10.46	12.47	126381	44505	100.000	100.000	
25) L1 Aroclor-1016{3}	12.52	14.29	231200	88189	100.000	100.000	
26) L1 Aroclor-1016{4}	13.57	15.12	65436	32794	100.000	100.000	
27) L1 Aroclor-1016{5}	15.22	17.65	140494	33875	100.000	100.000	
Sum Aroclor-1016			623875	219762	500.000	500.000	
Average Aroclor-1016					100.000	100.000	
Sum Aroclor-1221			0	0	N.D.	N.D.	
Average Aroclor-1221					0.000	0.000	
Sum Aroclor-1232			0	0	N.D.	N.D.	
Average Aroclor-1232					0.000	0.000	
Sum Aroclor-1242			0	0	N.D.	N.D.	
Average Aroclor-1242					0.000	0.000	
Sum Aroclor-1248			0	0	N.D.	N.D.	
Average Aroclor-1248					0.000	0.000	
Sum Aroclor-1254			0	0	N.D.	N.D.	
Average Aroclor-1254					0.000	0.000	
50) L7 Aroclor-1260{1}	20.37	22.96	76227	44430	103.205	94.155m	0.100
51) L7 Aroclor-1260{2}	21.12	23.95	125452	62673	96.554	100.000	
52) L7 Aroclor-1260{3}	22.33	24.43	147238	74528	98.645	100.000	
53) L7 Aroclor-1260{4}	25.88	27.00	122695	58684	134.746	100.000 #	
54) L7 Aroclor-1260{5}	27.39	29.74	214254	133219	100.796	100.000	
Sum Aroclor-1260			685866	373533	533.947	494.155	
Average Aroclor-1260					106.789	98.831	

TR 7/11/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\DATA_03\CA0624.D\ECD1A.CH Vial: 4
Signal #2 : C:\DATA_03\CA0624.D\ECD2B.CH
Acq On : 7 Jul 97 16:09 Operator:
Sample : AR166001 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 11:07 1997 Quant Results File: CLP_3.RES

Quant Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Continuing Cal File: C:\DATA_03\CA0624.D
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

7P2 7/11/97

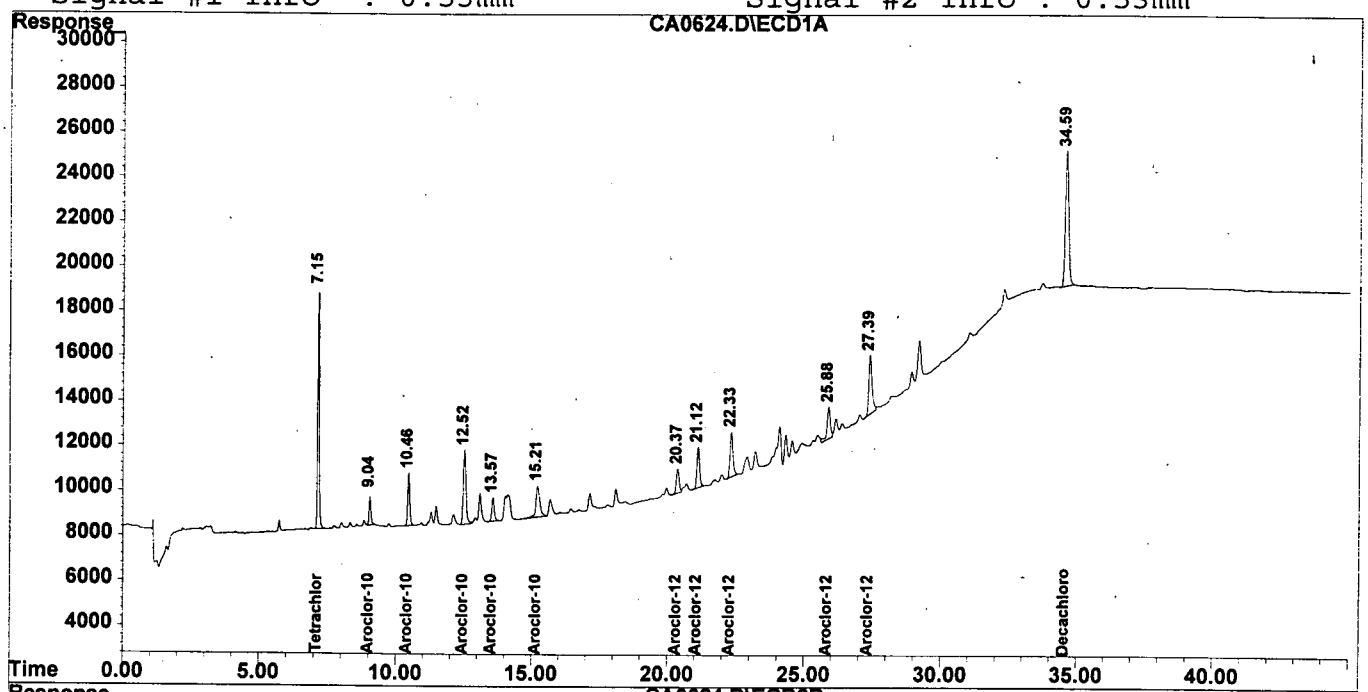
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

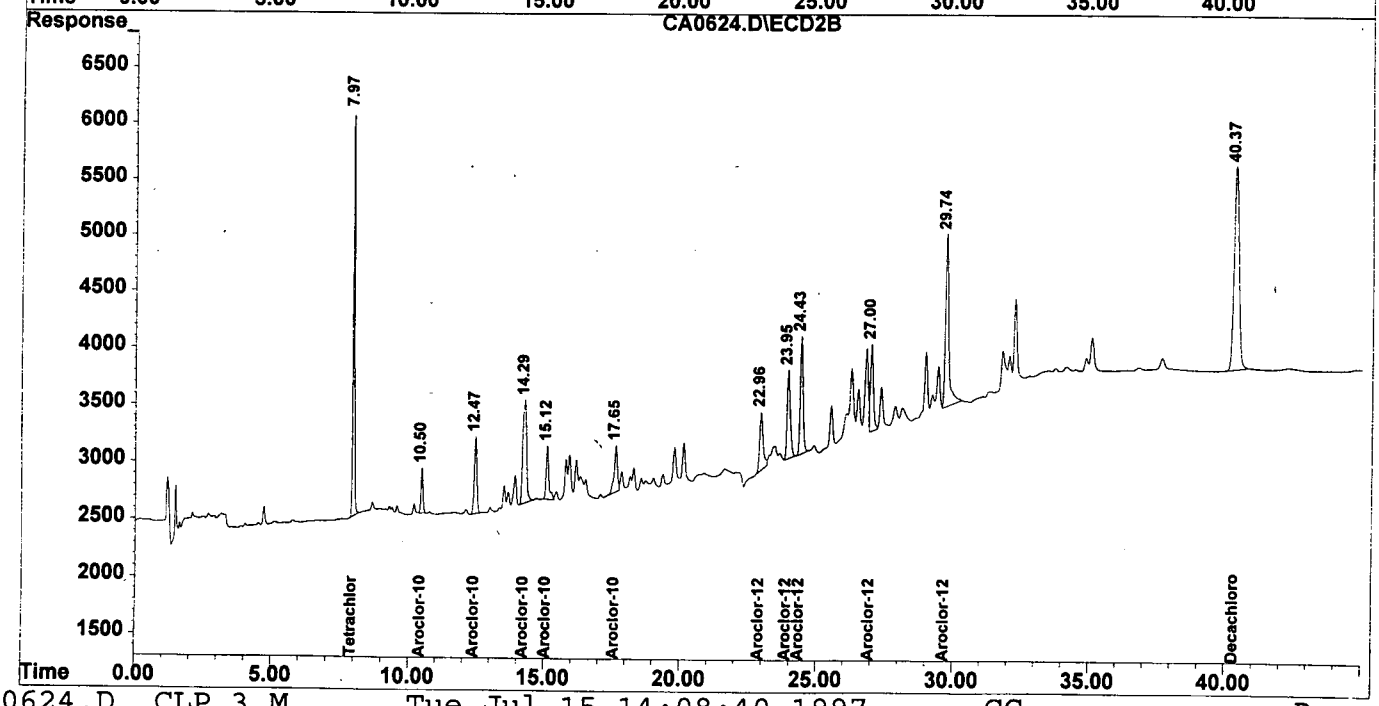
Quantitation Report

Signal #1 : C:\DATA_03\CA0624.D\ECD1A.CH Vial: 4
Signal #2 : C:\DATA_03\CA0624.D\ECD2B.CH
Acq On : 7 Jul 97 16:09 Operator:
Sample : AR166001 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 11:07 1997 Quant Results File: CLP_3.RES

Quant Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration
DataAcq Meth : CLP_3.M

Volume Inj. : 2 µl
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-608
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

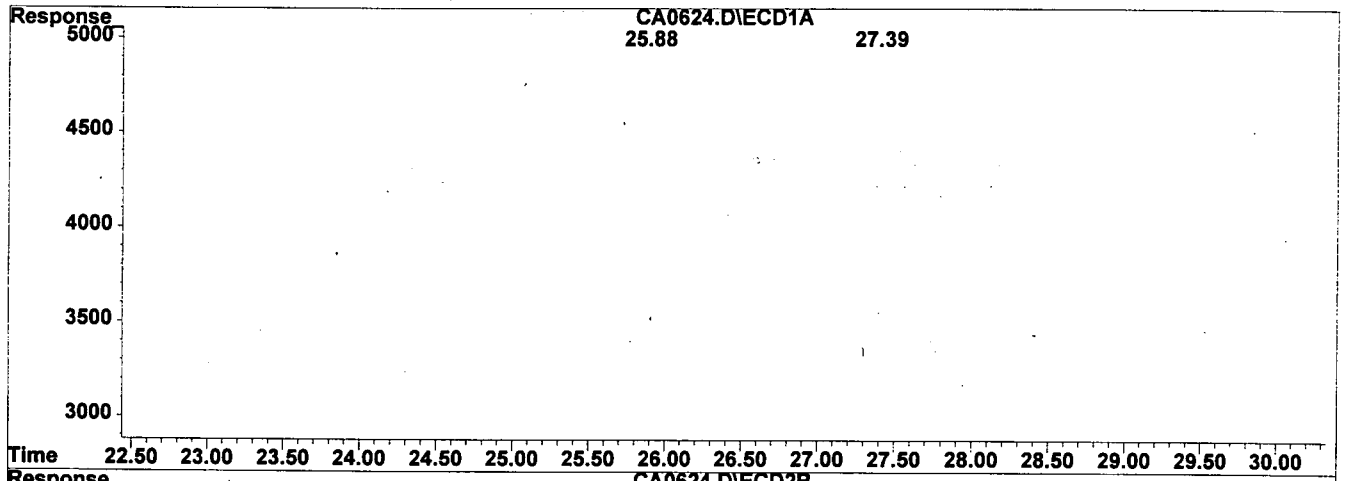


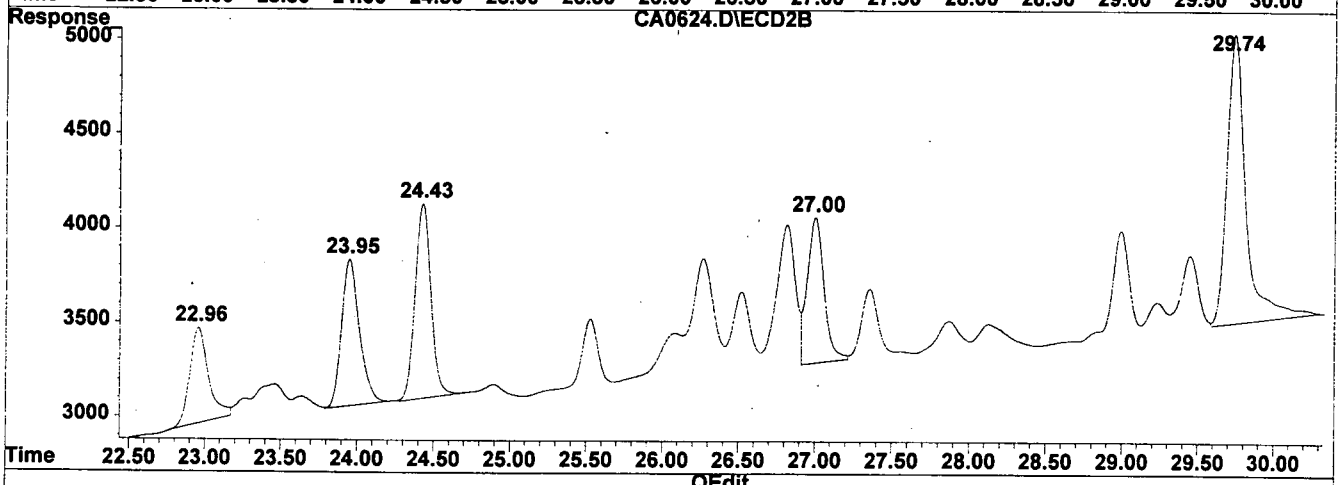


Quantitation Report

Signal #1 : C:\DATA_03\CA0624.D\ECD1A.CH Vial: 4
Signal #2 : C:\DATA_03\CA0624.D\ECD2B.CH
Acq On : 7 Jul 97 16:09 Operator:
Sample : AR166001 Inst : GC_5890_3
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jul 11 11:07 1997 Quant Results File: CLP_3.RES

Method : C:\HPCHEM\CLP_3.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Fri Jul 11 10:03:39 1997
Response via : Single Level Calibration





QEdit

(50) Aroclor-1260{1} (L7)

R.T.	Response	Conc
20.37	76227	103.21
21.12	125452	96.55
22.33	147238	98.65
25.88	122695	134.75
27.39	214254	100.80

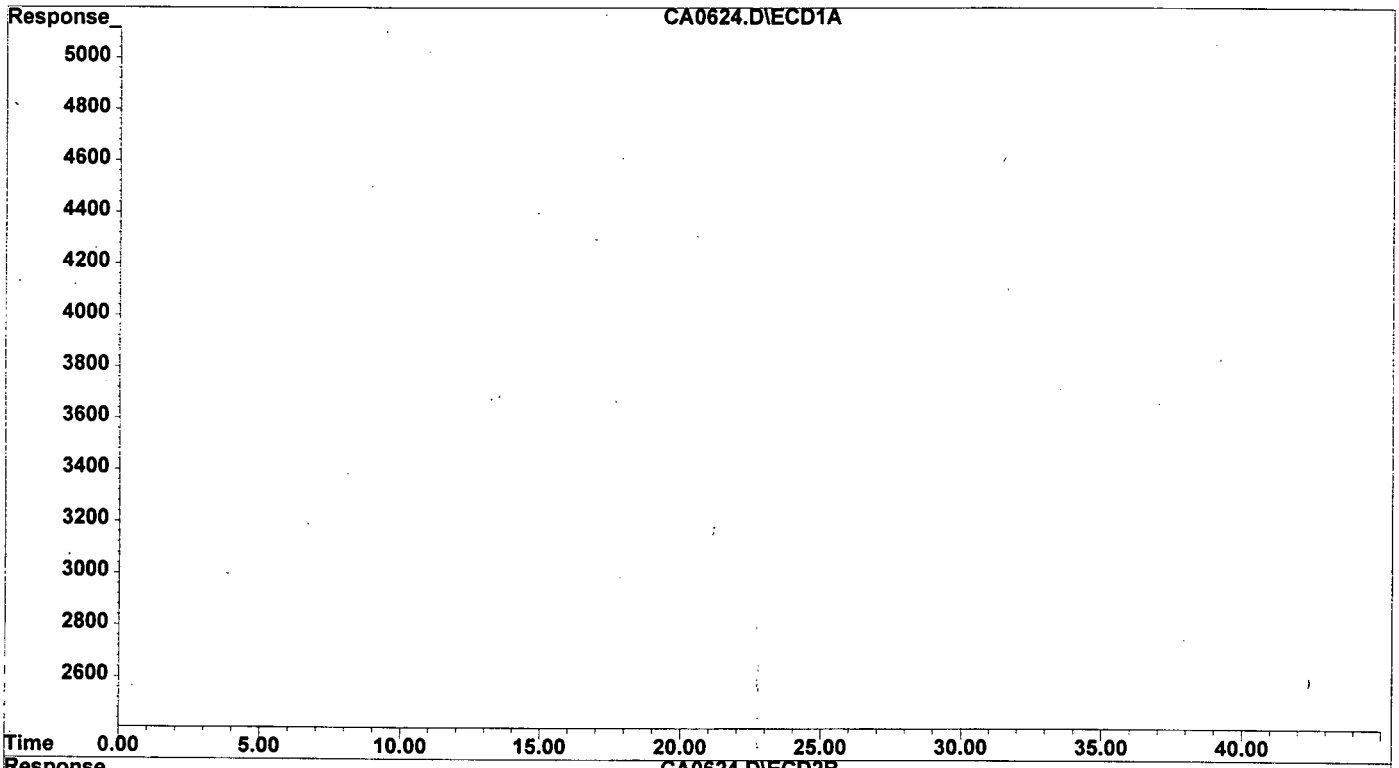
(50) Aroclor-1260{1} #2 (L7)

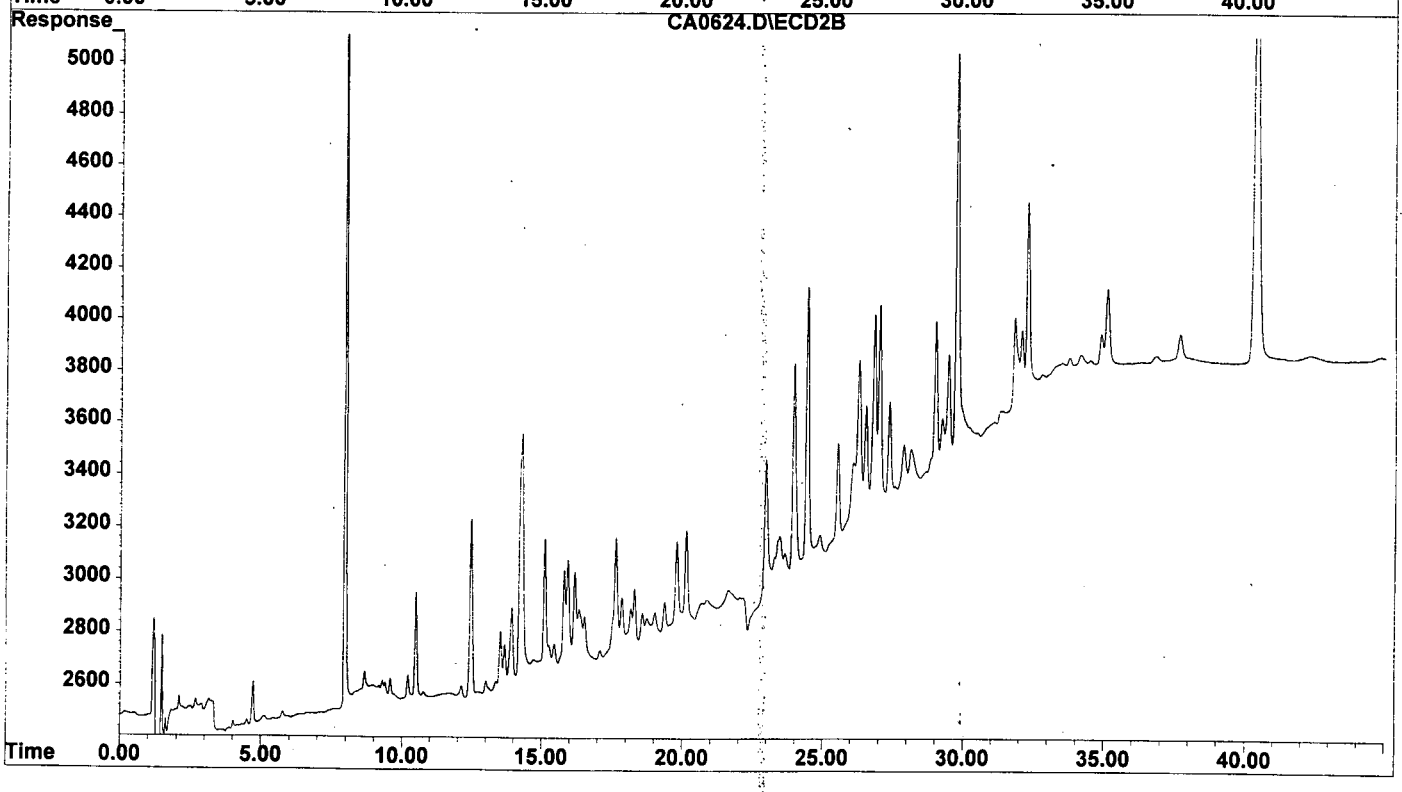
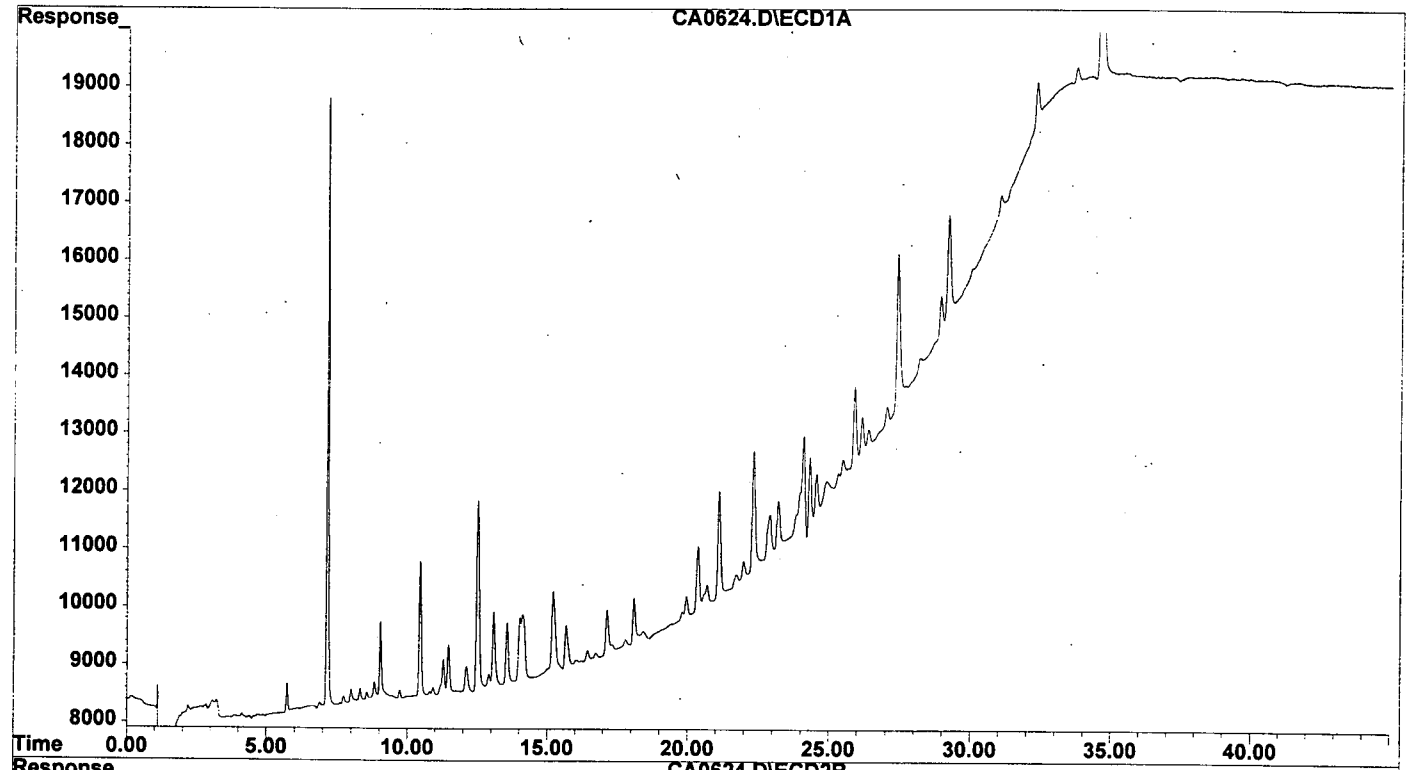
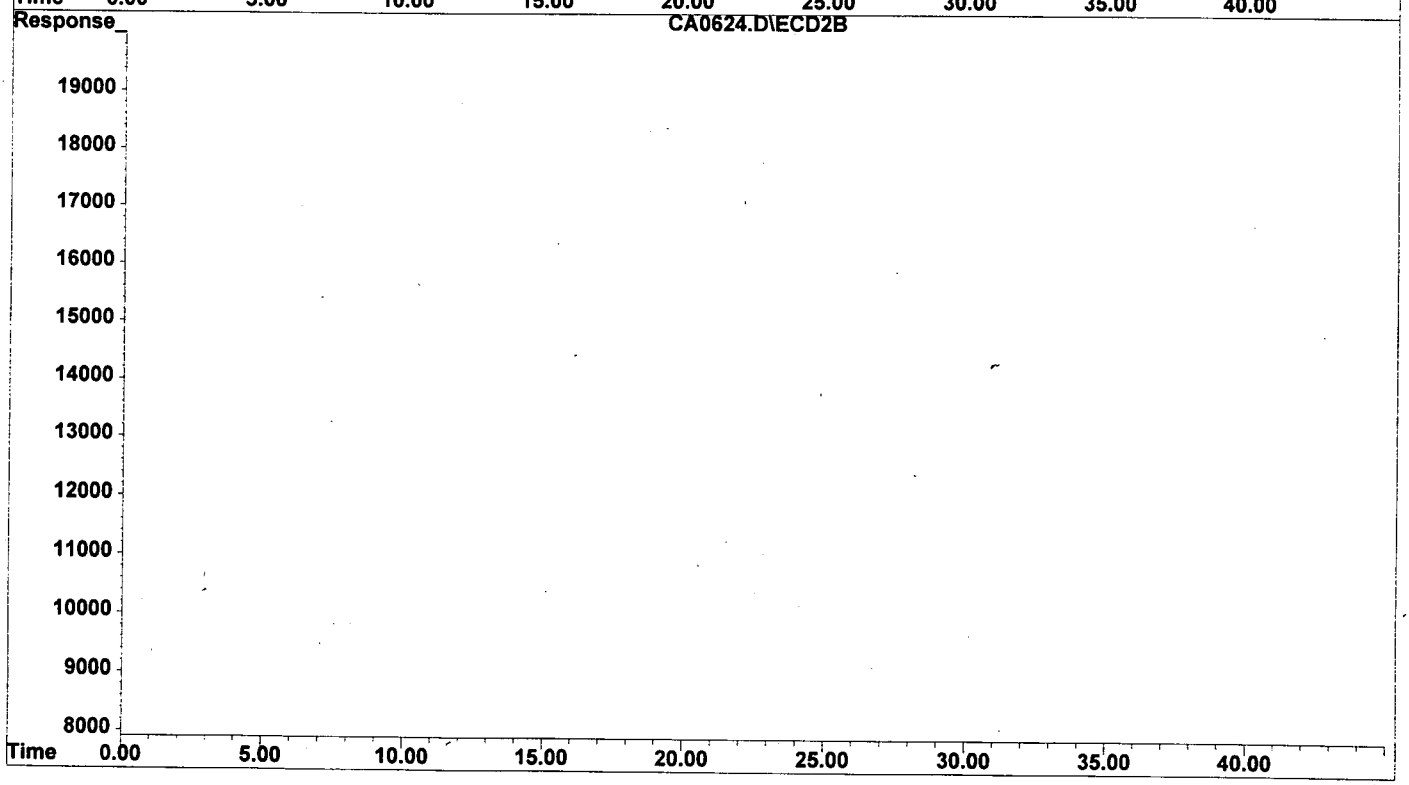
R.T.	Response	Conc
22.96	44430	94.16
23.95	62673	100.00
24.43	74528	100.00
27.00	58684	100.00
29.74	133219	100.00

(+) = Expected Retention Time

CA0624.D CLP_3.M Tue Jul 15 16:23:42 1997 GC

File : C:\DATA_03\CA0624.D
Operator :
Acquired : 7 Jul 97 16:09 using AcqMethod CLP_3.M
Instrument : GC_5890_3
Sample Name: AR166001
Misc Info :
Vial Number: 4





File : C:\DATA_03\CA0624.D
Operator :
Acquired : 7 Jul 97 16:09 using AcqMethod CLP_3.M
Instrument : GC_5890_3
Sample Name: AR166001
Misc Info :
Vial Number: 4