210989

Industrial Corrosion Management, Inc.
1152 Route 10
Randolph, New Jersey 07869
FAX #: 973-584-0514
Telephone #: 973-584-0330

RECEIVED
APR 16 1998

CLIENT: ROY F. WESTON, Inc.

PROJECT: RFP No. 2505

SDG #: CD-01

Organic Data Package

Laboratory Numbers: 286621 - 286633

VOLUME-1

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

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

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

CONTRACT NO. _____
SOW NO. OLM03.1

RECEIVED APR 16 1998

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

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
Inventory Sheet (Form DC-2) (Do not number)	—	—	✓	
SDG Case Narrative	4	4	✓	
SDG Cover Sheet/Traffic Report	—	—	✓	
Volatiles Data				
a. QC Summary				
System Monitoring Compound Summary (Form II VOA)	N/A		N/A	
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)				
Method Blank Summary (Form IV VOA)				
GC/MS Instrument Performance Check (Form V VOA)				
Internal Standard Area and RT Summary (Form VIII VOA)				
b. Sample Data				
TCL Results - (Form I VOA)				
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)				
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				
Blank Data				
Matrix Spike/Matrix Spike Duplicate Data				

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

RECEIVED APR 16 1990 LAB CHECK EPA

	PAGE NOS FROM	TO	CHECK LAB	CHECK EPA
Semivolatiles Data				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II SV)	N/A		N/A	
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)				
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				
Blank Data				
Matrix Spike/Matrix Spike Duplicate Data				
e. Raw GPC Data				
Pesticides				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II PEST)	5	6	✓	
MS/MSD Duplicate Summary (Form III PEST)	7	7	✓	
Method Blank Summary (Form IV PEST)	8	8	✓	

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

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

	PAGE NOs FROM	TO	CHECK LAB	EPA
Pesticides (Cont.)	9	65		
Sample Data				
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)			✓	
Standards Data	66	437		
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	438	493	✓	
Matrix Spike/Matrix Spike Duplicate Data	494	504	✓	

CASE NO. _____ SDG NO. C0-01 SDG NOS. TO FOLLOW _____
_____ _____ SAS NO. _____

	PAGE NOs FROM	TO	CHECK LAB	EPA
Pesticides (Cont.)				
e. Raw GPC Data	505	515	✓	
f. Raw Florisil Data	516	529	✓	
Miscellaneous Data				
Original preparation and analysis forms or copies of preparation and analysis logbook pages	530	542	✓	
Internal sample and sample extract transfer chain-of-custody records	N/A		N/A	
Screening records	↓		↓	
All instrument output, including strip charts from screening activities (describe or list)				
Methodology Summary	3	3	✓	
EPA Shipping/Receiving Documents				
Airbills (No. of shipments ___)	N/A		N/A	
Chain-of-Custody Records	1	1	✓	
Sample Tags			N/A	
Sample Log-In Sheet (Lab & DCI)	N/A		N/A	
Miscellaneous Shipping/Receiving Records (describe or list)				
Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
Internal Chain of Custody	2	2	✓	
Other Records (describe or list)				
Telephone Communication Log				

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

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

11. Comments: _____

Completed by: Susan Stanley (Signature) Susan Stanley / OCO (Printed Name/Title) 4/16/98 (Date)
(CLP Lab)

Verified by: Robin Jetter (Signature) Robin Jetter / DCO (Printed Name/Title) 4/16/98 (Date)
(CLP Lab)

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

RFP No.: 2505

PO No.: 91620

CHAIN OF CUSTODY RECORD

WESTON

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
CD-01	3/28/98 (1105)	5	L/M	G	6				X						2866621
CD-02	(1105)	5	L/M	G	6				X						622
CD-03	(1110)	5	L/M	G	6				X						623
CD-04	(1140)	5	L/M	G	6				X						624
CD-05	(1145)	5	L/M	G	6				X						625
CD-06	(1150)	5	L/M	G	6				X						626
CD-07	(1200)	5	L/M	G	6				X						627
CD-08	(1205)	5	L/M	G	6				X						628
CD-09	(1210)	5	L/M	G	6				X						629
CD-10	(1215)	5	L/M	G	6				X						630
CD-11	(1220)	5	L/M	G	6				X						631
CD-12	(1225)	5	L/M	G	6				X						632
CD-13	(1230)	5	L/M	G	6				X						633

Comments: * EXTRA VOLUME FOR MS/MSD PROVIDED

Person Assuming Responsibility for Sample: HARRY MORADIA — Time Date (MM/DD/YY): 1235 3/28/98

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
ALL	HMoradia	1500	3/28	Valerie Hovland	LAB ANALYSIS
Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
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.

ICM Laboratories, Inc.
Internal Chain-of-Custody

INK: 286621-286633

Account number: WA2513
Project: 91620
Tier Level: CLP

ROY F. WESTON, INC.

Laboratory Person Breaking Seal on Shuttle: V. Howland

Title: LI

Lab Number	Relinq. By	Recd. By	Date	Time	Reason for Transfer	Aliquot ID
All	VH	VH	03/28/98	15:38	STORAGE	ALL
all	VH	ATD	3/29/98	8:45	PCB ~~dep~~ 4/6/98	801
all	ATD	VH	3/31/98	10:00	Storage	801

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
973-584-0330

SDG No. CD-01

Samples: 286621 - 286633

NONCONFORMANCE SUMMARY

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) Manual integrations were performed on a number of samples and standards due to incorrect integration by the quantitation program.

4) Inadvertantly, the GPC Pest Check was spiked with 1ml. of GPC Calibration Check Solution instead of 2mls. As a result, the concentrations found in the Pest Check were one-half the normal amount.

5) The following compounds had recoveries outside the QC limits in the matrix spike: Aldrin (136%) and 4,4'-DDT (147%). The following compounds had recoveries outside the QC limits in the matrix spike duplicate: Aldrin (155%), Dieldrin (137%), and 4,4'-DDT (158%). 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.

Thomas Mancuso
Laboratory Manager

4/16/98
Date

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column(1): RTX-50 ID: .53 (mm) GC Column(2): RTX-1701 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	101	86	76	77			0
02	PIBLK02	123	88	76	85			0
03	PIBLK03	97	87	79	76			0
04	PIBLK04	90	89	83	87			0
05	PIBLK05	86	90	82	78			0
06	PIBLK06	74	85	77	73			0
07	PIBLK07	72	87	75	73			0
08	PIBLK08	77	90	70	99			0
09	PIBLK09	82	95	73	77			0
10	PIBLK10	70	87	71	72			0
11	PIBLK11	76	89	71	75			0
12	PIBLK12	78	95	79	80			0
13	PIBLK13	83	99	100	144			0
14	PIBLK14	92	110	89	91			0
15	PIBLK15	110	131	104	104			0
16	PIBLK16	124	149	121	121			0
17	PIBLK17	73	88	76	75			0
18								
19								
20								
21								
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

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column(1): RTX-50 ID: .53 (mm) GC Column(2): RTX-1701 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	PBLK15	76	99	88	87			0
02	CD-02	95	121	103	105			0
03	CD-03	93	117	111	125			0
04	CD-04	85	109	111	115			0
05	CD-05	87	109	96	114			0
06	CD-06	83	117	101	103			0
07	CD-07	111	142	128	131			0
08	CD-08	58	74	82	78			0
09	CD-09	96	108	116	114			0
10	CD-10	86	108	98	102			0
11	CD-11	94	120	106	103			0
12	CD-12	87	112	108	102			0
13	CD-12MS	99	124	121	116			0
14	CD-12MSD	113	147	142	129			0
15	CD-13	94	121	120	117			0
16	CD-01	94	116	110	121			0
17								
18								
19								
20								
21								
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.: CD-01

Matrix Spike - EPA Sample No.: CD-12 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)	22.00	.00	24.00	109	46-127
Heptachlor	22.00	.00	24.00	109	35-130
Aldrin	22.00	.00	30.00	136 *	34-132
Dieldrin	43.00	.00	54.00	126	31-134
Endrin	43.00	.00	48.00	112	42-139
4,4'-DDT	43.00	.00	63.00	147 *	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	22.00	26.00	118	8	50	46-127
Heptachlor	22.00	26.00	118	8	31	35-130
Aldrin	22.00	34.00	155 *	13	43	34-132
Dieldrin	43.00	59.00	137 *	8	38	31-134
Endrin	43.00	52.00	121	8	45	42-139
4,4'-DDT	43.00	68.00	158 *	7	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: 5 out of 12 outside limits

COMMENTS:

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK15

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

Lab Sample ID: PBLK15 Lab File ID: HA3686

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

Sulfur Cleanup: (Y/N) N Date Extracted: 03/29/98

Date Analyzed (1): 04/07/98 Date Analyzed (2): 04/07/98

Time Analyzed (1): 22:18 Time Analyzed (2): 22:18

Instrument ID (1): 5890 8 Instrument ID (2): 5890 8

GC Column (1): RTX-50 ID: .53 (mm) GC Column (2): RTX-1701 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	CD-02	286622	04/08/98	04/08/98
02	CD-03	286623	04/08/98	04/08/98
03	CD-04	286624	04/08/98	04/08/98
04	CD-05	286625	04/08/98	04/08/98
05	CD-06	286626	04/08/98	04/08/98
06	CD-07	286627	04/08/98	04/08/98
07	CD-08	286628	04/08/98	04/08/98
08	CD-09	286629	04/08/98	04/08/98
09	CD-10	286630	04/08/98	04/08/98
10	CD-11	286631	04/08/98	04/08/98
11	CD-12	286632	04/08/98	04/08/98
12	CD-12MS	286632	04/08/98	04/08/98
13	CD-12MSD	286632	04/08/98	04/08/98
14	CD-13	286633	04/09/98	04/09/98
15	CD-01	286621	04/09/98	04/09/98
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

page 1 of 1

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CD-01

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

Matrix: (soil/water) SOIL Lab Sample ID: 286621

Sample wt/vol: 30.0 (g/mL) G Lab File ID: HA3711

% Moisture: 18. decanted: (Y/N) N Date Received: 03/28/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/29/98

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/09/98

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
12674-11-2------	Aroclor-1016	41.	U
11104-28-2------	Aroclor-1221	41.	U
11141-16-5------	Aroclor-1232	41.	U
53469-21-9------	Aroclor-1242	41.	U
12672-29-6------	Aroclor-1248	41.	U
11097-69-1------	Aroclor-1254	41.	U
11096-82-5------	Aroclor-1260	41.	U

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3711.D\ECD1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA_H\HA3711.D\ECD2B.CH
Acq On : 9 Apr 98 7:57 Operator:
Sample : 286621 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:42 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.42	10.22	612128	584947	37.506	46.537	
Spiked Amount 40.000 Range 60 - 150 Recovery =					93.77%	116.34%	
22) SA Decachlorobiphen	39.47	41.51	977296	1284967	44.000	48.391	
Spiked Amount 40.000 Range 60 - 150 Recovery =					110.00%	120.98%	
Target Compounds							
23) L1 Aroclor-1016{1}	10.75	12.70	320764	25694	867.776	84.008	#
24) L1 Aroclor-1016{2}	12.70	14.65	15845	20526	21.489	29.361	#
25) L1 Aroclor-1016{3}	14.64	0.00	71695	0	50.033	N.D.	#
26) L1 Aroclor-1016{4}	0.00	17.80	0	12093	N.D.	23.766	#
Sum Aroclor-1016			408303	58313	939.298	137.135	
Average Aroclor-1016					313.099	45.712	
28) L2 Aroclor-1221{1}	7.19	0.00	47558	0	309.873	N.D.	#
29) L2 Aroclor-1221{2}	0.00	12.40	0	307607	N.D.	2646.256	#
30) L2 Aroclor-1221{3}	10.75	12.70	320764	25694	655.439	51.884	#
Sum Aroclor-1221			368322	333301	965.312	2698.140	
Average Aroclor-1221					482.656	1349.070	
31) L3 Aroclor-1232{1}	10.75	8.50	320764	198075	798.828	1399.624	#
32) L3 Aroclor-1232{2}	12.70	12.70	15845	25694	42.648	72.731	#
33) L3 Aroclor-1232{3}	14.64	14.65	71695	20526	101.079	61.887	#
Sum Aroclor-1232			408303	244295	942.555	1534.243	
Average Aroclor-1232					314.185	511.414	
35) L4 Aroclor-1242{1}	10.75	12.70	320764	25694	1278.717	120.730	#
36) L4 Aroclor-1242{2}	12.70	14.65	15845	20526	34.136	48.422	#
37) L4 Aroclor-1242{3}	14.64	0.00	71695	0	70.301	N.D.	#
38) L4 Aroclor-1242{4}	0.00	17.80	0	12093	N.D.	40.252	#
Sum Aroclor-1242			408303	58313	1383.153	209.404	
Average Aroclor-1242					461.051	69.801	
40) L5 Aroclor-1248{1}	12.70	14.65	15845	20526	53.216	72.899	#
41) L5 Aroclor-1248{2}	14.64	0.00	71695	0	76.879	N.D.	#
42) L5 Aroclor-1248{3}	0.00	18.89	0	4442	N.D.	9.238	#

JPC 4/8/98

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3711.D\ECD1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA_H\HA3711.D\ECD2B.CH
Acq On : 9 Apr 98 7:57 Operator:
Sample : 286621 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:42 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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]) L5	Aroclor-1248{5}	19.78	20.95	67258	21851	85.642	44.149	#
Sum	Aroclor-1248			154797	46819	215.737	126.286	
Average	Aroclor-1248					71.912	42.095	
						np	np	
4[illegible]) L6	Aroclor-1254{1}	20.40	22.67	333467	68829	463.116	76.565	#
46) L6	Aroclor-1254{2}	20.96	23.57	24243	77967	26.136	92.461	#
4[illegible]) L6	Aroclor-1254{3}	23.76	26.11	43905	224167	41.893	213.346	#
4[illegible]) L6	Aroclor-1254{4}	26.90	28.09	52953	168555	72.909	316.868	#
49) L6	Aroclor-1254{5}	27.60	29.97	101750	383984	85.748	384.784	#
Sum	Aroclor-1254			556319	923501	689.803	1084.024	
Average	Aroclor-1254					137.961	216.805	
						np	np	
50) L7	Aroclor-1260{1}	24.73	26.93	62387	46184	58.221	53.535	
5[illegible]) L7	Aroclor-1260{2}	0.00	28.09	0	168555	N.D.	162.688	#
5[illegible]) L7	Aroclor-1260{3}	29.73	31.79	70308	64650	90.996	98.304	
53) L7	Aroclor-1260{4}	30.67	33.25	151311	109492	100.952	82.115	
5[illegible]) L7	Aroclor-1260{5}	32.91	35.11	140700	47547	119.643	40.879	#
Sum	Aroclor-1260			424706	436429	369.811	437.521	
Average	Aroclor-1260					92.453	87.504	
						np	np	
Sum	Toxaphene			0	0	N.D.	N.D.	
Average	Toxaphene					0.000	0.000	

Jas 4/21/98

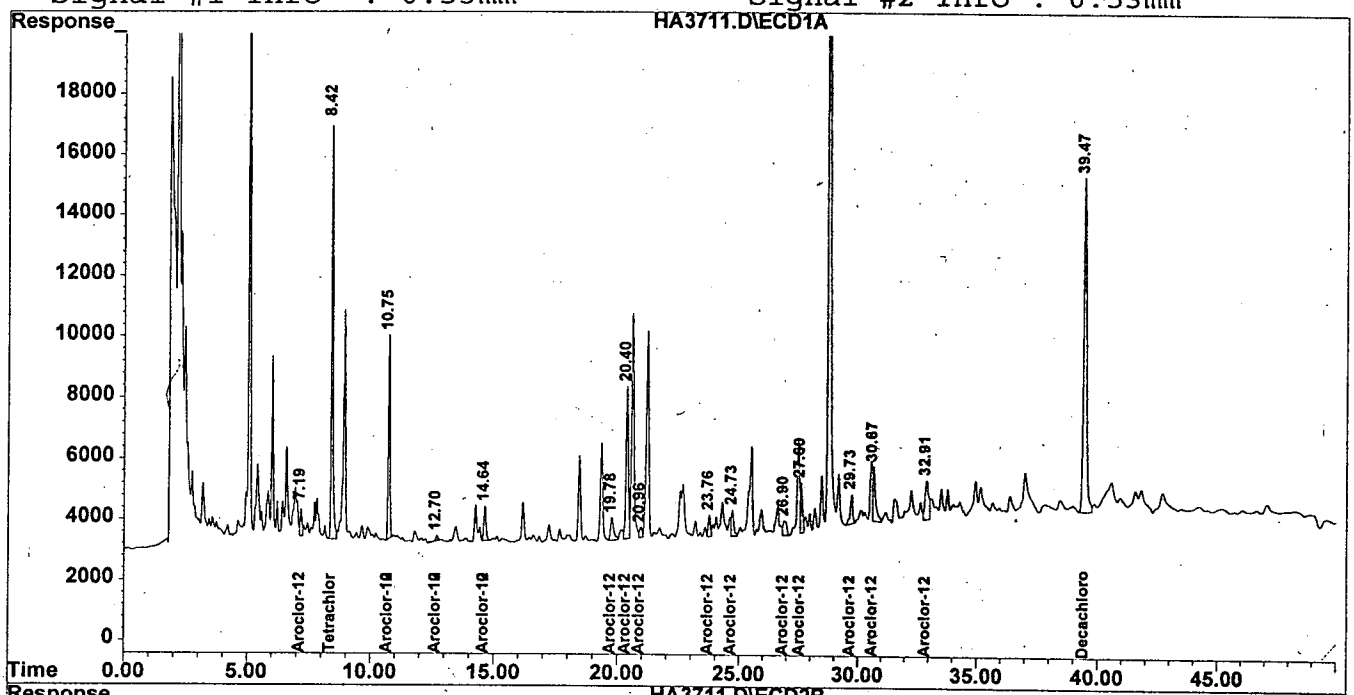
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

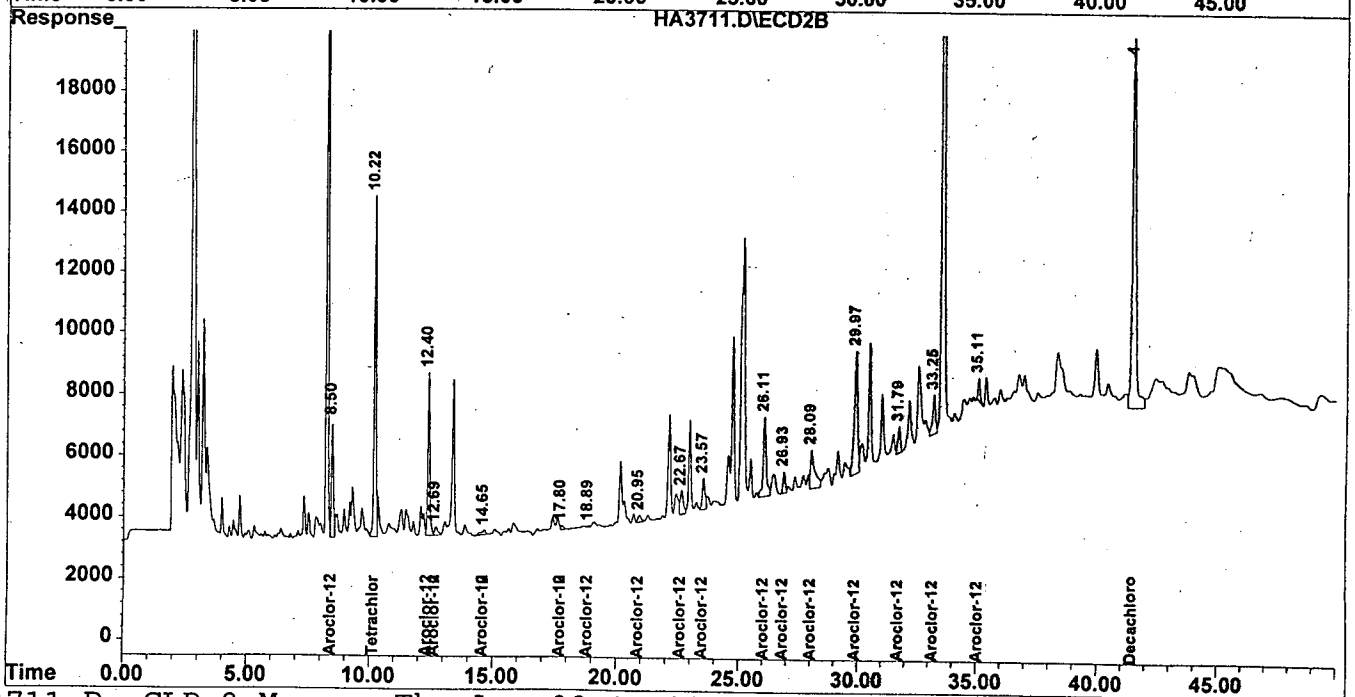
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3711.D\ECD1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA_H\HA3711.D\ECD2B.CH
Acq On : 9 Apr 98 7:57 Operator:
Sample : 286621 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:42 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm





1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CD-02

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

Matrix: (soil/water) SOIL Lab Sample ID: 286622

Sample wt/vol: 30.0 (g/mL) G Lab File ID: HA3692

% Moisture: 14.1 decanted: (Y/N) N Date Received: 03/28/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/29/98

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/08/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3692.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA_H\HA3692.D\ECD2B.CH
Acq On : 8 Apr 98 3:42 Operator:
Sample : 286622 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 9:19 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.42	10.22	621107	607488	38.056	48.330	#
Spiked Amount 40.000 Range 60 - 150 Recovery =					95.14%	120.83%	
22) SA Decachlorobiphen	39.47	41.52	911132	1119038	41.021	42.143	
Spiked Amount 40.000 Range 60 - 150 Recovery =					102.55%	105.36%	
Target Compounds							
23) L1 Aroclor-1016{1}	10.76	12.68	98786	112267	267.251	367.067	#
24) L1 Aroclor-1016{2}	12.70	14.65	217031	223499	294.333	319.696	
25) L1 Aroclor-1016{3}	14.63	17.06	173098	168811	120.799	134.377	
26) L1 Aroclor-1016{4}	15.41	17.82	49122	81300	116.164	159.775	#
27) L1 Aroclor-1016{5}	18.08	20.34	37325	177963	82.343	298.877	#
Sum Aroclor-1016			575362	763840	880.889	1279.792	
Average Aroclor-1016					176.178	255.958	
					no	no	
28) L2 Aroclor-1221{1}	0.00	11.66	0	29582	N.D.	181.752	#
29) L2 Aroclor-1221{2}	10.48	12.40	16757	24096	102.952	207.292	#
30) L2 Aroclor-1221{3}	10.76	12.68	98786	112267	201.857	226.704	
Sum Aroclor-1221			115543	165945	304.809	615.748	
Average Aroclor-1221					152.405	205.249	
					no	no	
31) L3 Aroclor-1232{1}	10.76	8.50	98786	26406	246.017	186.589	
32) L3 Aroclor-1232{2}	12.70	12.68	217031	112267	584.164	317.791	#
33) L3 Aroclor-1232{3}	14.63	14.65	173098	223499	244.044	673.861	#
34) L3 Aroclor-1232{4}	15.41	17.06	49122	168811	259.943	274.121	
Sum Aroclor-1232			538038	530982	1334.167	1452.362	
Average Aroclor-1232					333.542	363.091	
					no	no	
35) L4 Aroclor-1242{1}	10.76	12.68	98786	112267	393.809	527.519	#
36) L4 Aroclor-1242{2}	12.70	14.65	217031	223499	467.572	527.244	
37) L4 Aroclor-1242{3}	14.63	17.06	173098	168811	169.732	223.897	#
38) L4 Aroclor-1242{4}	15.41	17.82	49122	81300	177.433	270.604	#
39) L4 Aroclor-1242{5}	18.08	0.00	37325	0	119.515	N.D.	#
Sum Aroclor-1242			575362	585876	1328.061	1549.264	
Average Aroclor-1242					265.612	387.316	
					no	no	

JP 4/8/98

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3692.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA_H\HA3692.D\ECD2B.CH
Acq On : 8 Apr 98 3:42 Operator:
Sample : 286622 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 9:19 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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}	12.70	14.65	217031	223499	728.911	793.763	
41) L5	Aroclor-1248{2}	14.63	17.06	173098	168811	185.615	201.116	
42) L5	Aroclor-1248{3}	16.43	18.89	19965	24572	41.032	51.101	
43) L5	Aroclor-1248{4}	18.08	20.34	37325	177963	60.396	231.217	#
44) L5	Aroclor-1248{5}	0.00	20.97	0	33290	N.D.	67.261	#
Sum	Aroclor-1248			447419	628135	1015.954	1344.458	
Average	Aroclor-1248					253.988	268.892	
						no	no	
46) L6	Aroclor-1254{2}	0.00	23.61	0	11598	N.D.	13.754	#
47) L6	Aroclor-1254{3}	0.00	26.09	0	76090	N.D.	72.417	#
48) L6	Aroclor-1254{4}	26.88	28.11	24062	126691	33.130	238.167	#
49) L6	Aroclor-1254{5}	27.61	29.95	30932	83079	26.067	83.252	#
Sum	Aroclor-1254			54994	297457	59.198	407.590	
Average	Aroclor-1254					29.599	101.898	
						no	no	
50) L7	Aroclor-1260{1}	0.00	26.94	0	24218	N.D.	28.072	#
51) L7	Aroclor-1260{2}	25.40	28.11	80063	126691	67.237	122.281	#
52) L7	Aroclor-1260{3}	29.73	31.80	13172	80205	17.047	121.955	#
53) L7	Aroclor-1260{4}	0.00	33.26	0	50125	N.D.	37.592	#
54) L7	Aroclor-1260{5}	32.91	0.00	73904	0	62.843	N.D.	#
Sum	Aroclor-1260			167138	281238	147.127	309.900	
Average	Aroclor-1260					49.042	77.475	
						no	no	
Sum	Toxaphene			0	0	N.D.	N.D.	
Average	Toxaphene					0.000	0.000	

Das 4/8/98

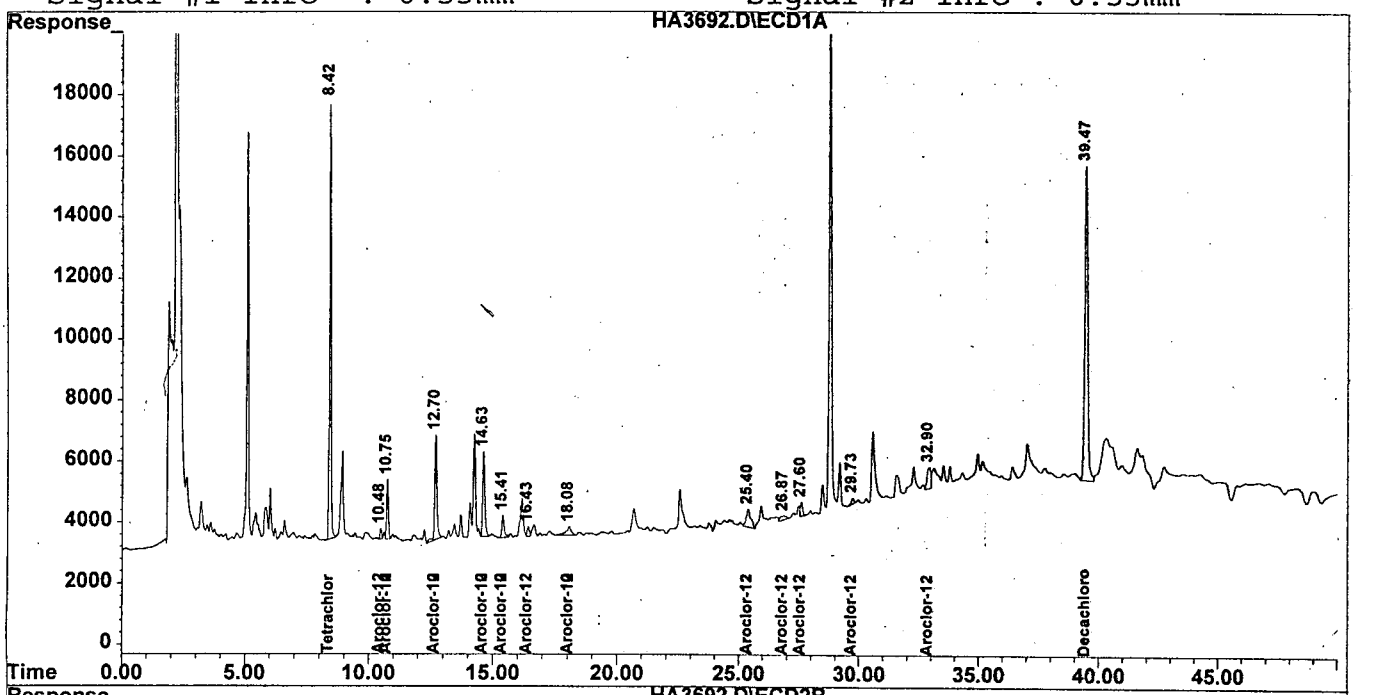
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

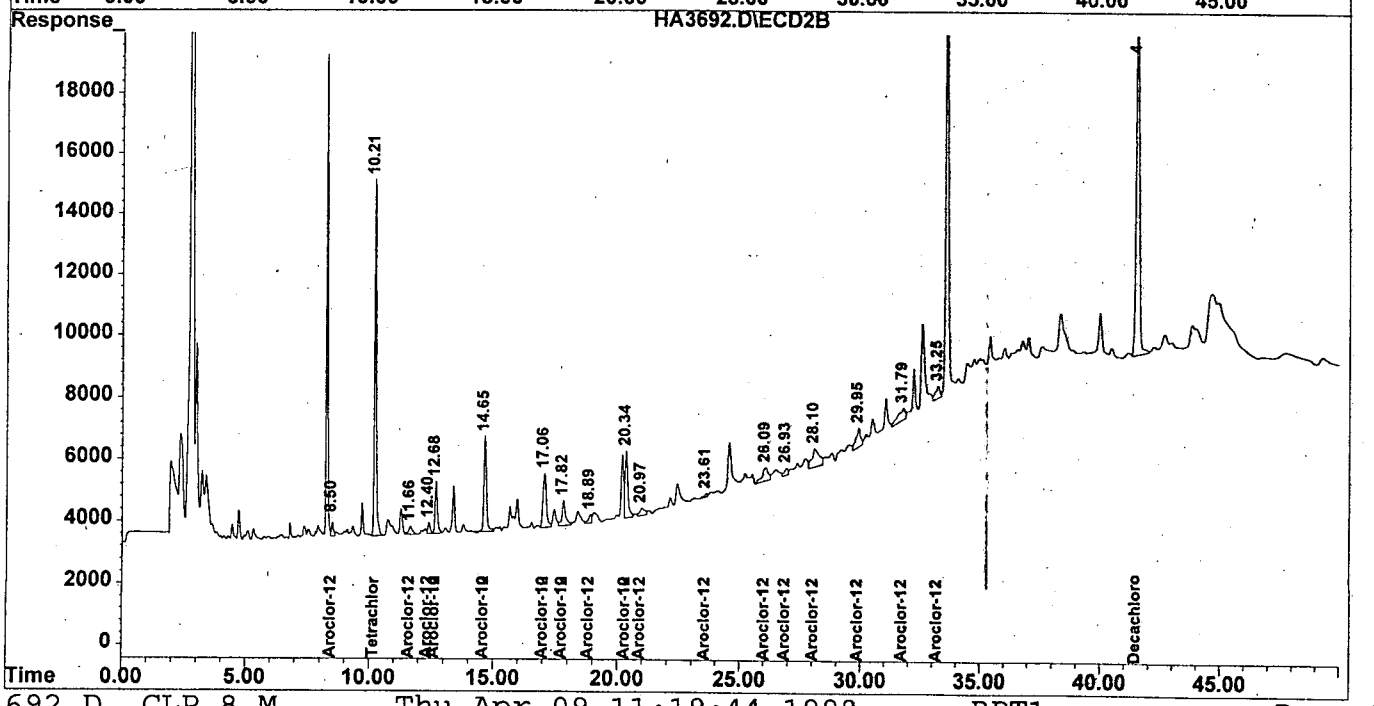
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3692.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA_H\HA3692.D\ECD2B.CH
Acq On : 8 Apr 98 3:42 Operator:
Sample : 286622 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 9:19 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm





1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CD-03

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

Matrix: (soil/water) SOIL Lab Sample ID: 286623

Sample wt/vol: 30.0 (g/mL) G Lab File ID: HA3693

% Moisture: 16.1 decanted: (Y/N) N Date Received: 03/28/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/29/98

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/08/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2------	Aroclor-1016	40.	U
11104-28-2------	Aroclor-1221	40.	U
11141-16-5------	Aroclor-1232	40.	U
53469-21-9------	Aroclor-1242	40.	U
12672-29-6------	Aroclor-1248	40.	U
11097-69-1------	Aroclor-1254	40.	U
11096-82-5------	Aroclor-1260	40.	U

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3693.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA_H\HA3693.D\ECD2B.CH
Acq On : 8 Apr 98 4:36 Operator:
Sample : 286623 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 9:21 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.42	10.22	606528	590512	37.163	46.980 #
Spiked Amount 40.000 Range 60 - 150 Recovery =					92.91%	117.45%
22) SA Decachlorobiphen	39.47	41.52	986612	1331222	44.419	50.133
Spiked Amount 40.000 Range 60 - 150 Recovery =					111.05%	125.33%
Target Compounds						
23) L1 Aroclor-1016{1}	10.76	12.69	24415	19710	66.050	64.443
24) L1 Aroclor-1016{2}	12.71	14.66	26091	36659	35.384	52.438 #
25) L1 Aroclor-1016{3}	14.64	17.11	38013	19426	26.528	15.463 #
26) L1 Aroclor-1016{4}	0.00	17.81	0	11513	N.D.	22.627 #
27) L1 Aroclor-1016{5}	0.00	20.34	0	55219	N.D.	92.737 #
Sum Aroclor-1016			88519	142527	127.962	247.708
Average Aroclor-1016					42.654	49.542
29) L2 Aroclor-1221{2}	0.00	12.41	0	11374	N.D.	97.844 #
30) L2 Aroclor-1221{3}	10.76	12.69	24415	19710	49.888	39.801
Sum Aroclor-1221			24415	31083	49.888	137.644
Average Aroclor-1221					49.888	68.822
31) L3 Aroclor-1232{1}	10.76	8.50	24415	23470	60.802	165.842 #
32) L3 Aroclor-1232{2}	12.71	12.69	26091	19710	70.227	55.792
33) L3 Aroclor-1232{3}	14.64	14.66	38013	36659	53.594	110.529 #
34) L3 Aroclor-1232{4}	0.00	17.11	0	19426	N.D.	37.544 #
Sum Aroclor-1232			88519	99265	184.623	363.708
Average Aroclor-1232					61.541	90.927
35) L4 Aroclor-1242{1}	10.76	12.69	24415	19710	97.329	92.613
36) L4 Aroclor-1242{2}	12.71	14.66	26091	36659	56.210	86.481 #
37) L4 Aroclor-1242{3}	14.64	17.11	38013	19426	37.274	25.765 #
38) L4 Aroclor-1242{4}	0.00	17.81	0	11513	N.D.	38.322 #
Sum Aroclor-1242			88519	87308	190.813	243.180
Average Aroclor-1242					63.604	60.795
40) L5 Aroclor-1248{1}	12.71	14.66	26091	36659	87.628	130.196 #
41) L5 Aroclor-1248{2}	14.64	17.11	38013	19426	40.762	23.143 #

9/9/98

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3693.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA_H\HA3693.D\ECD2B.CH
Acq On : 8 Apr 98 4:36 Operator:
Sample : 286623 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 9:21 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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]) L5	Aroclor-1248{4}	0.00	20.34	0	55219	N.D.	71.743	#
44) L5	Aroclor-1248{5}	0.00	20.98	0	17773	N.D.	35.909	#
Sum	Aroclor-1248			64104	129077	128.390	260.991	
Average	Aroclor-1248					64.195	65.248	
46) L6	Aroclor-1254{2}	0.00	23.60	0	28481	N.D.	33.776	#
4[illegible]) L6	Aroclor-1254{3}	23.76	26.11	17895	69051	17.074	65.718	#
4[illegible]) L6	Aroclor-1254{4}	26.89	28.10	48403	119238	66.644	224.157	#
49) L6	Aroclor-1254{5}	27.60	29.96	50609	209843	42.650	210.281	#
Sum	Aroclor-1254			116906	426613	126.368	533.931	
Average	Aroclor-1254					42.123	133.483	
50) L7	Aroclor-1260{1}	24.73	26.94	16690	25679	15.575	29.766	#
5[illegible]) L7	Aroclor-1260{2}	25.41	28.10	99201	119238	83.309	115.088	#
52) L7	Aroclor-1260{3}	29.73	31.80	36221	19724	46.879	29.991	#
53) L7	Aroclor-1260{4}	0.00	33.26	0	65170	N.D.	48.875	#
5[illegible]) L7	Aroclor-1260{5}	32.94	35.12	97242	14732	82.689	12.666	#
Sum	Aroclor-1260			249354	244544	228.452	236.387	
Average	Aroclor-1260					57.113	47.277	
Sum	Toxaphene			0	0	N.D.	N.D.	
Average	Toxaphene					0.000	0.000	

4/9/98

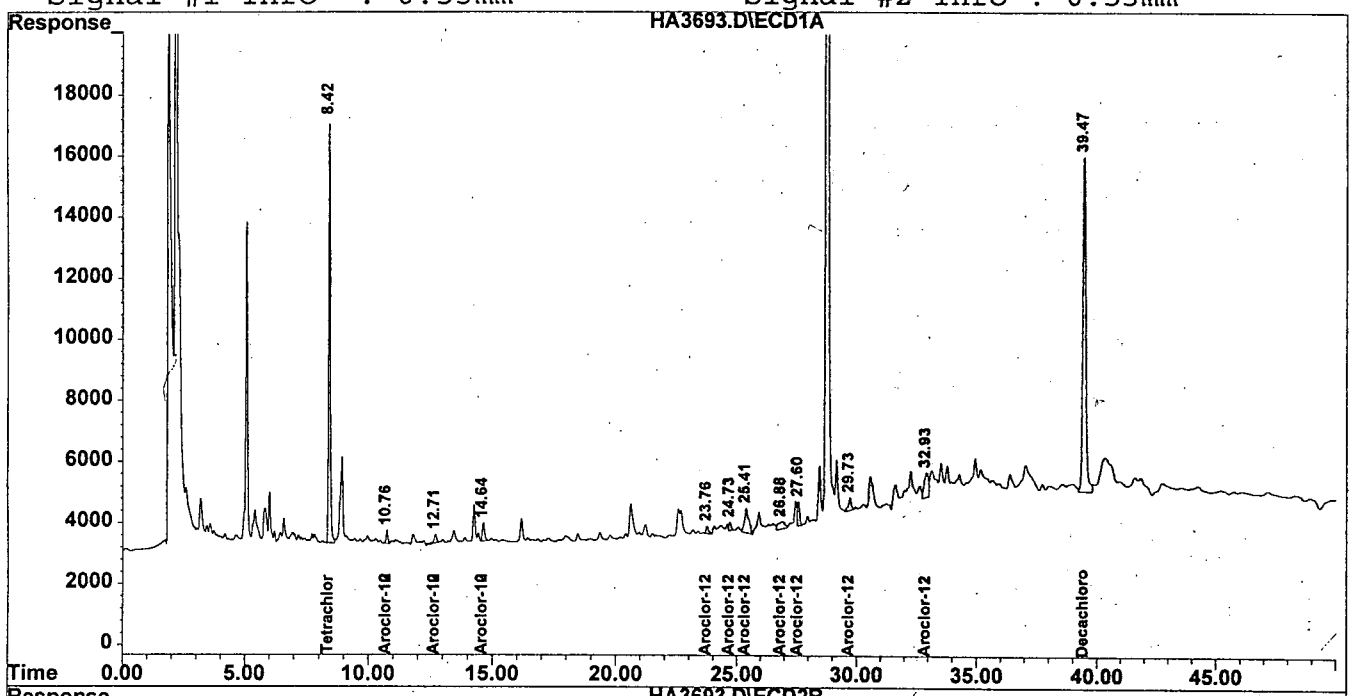
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

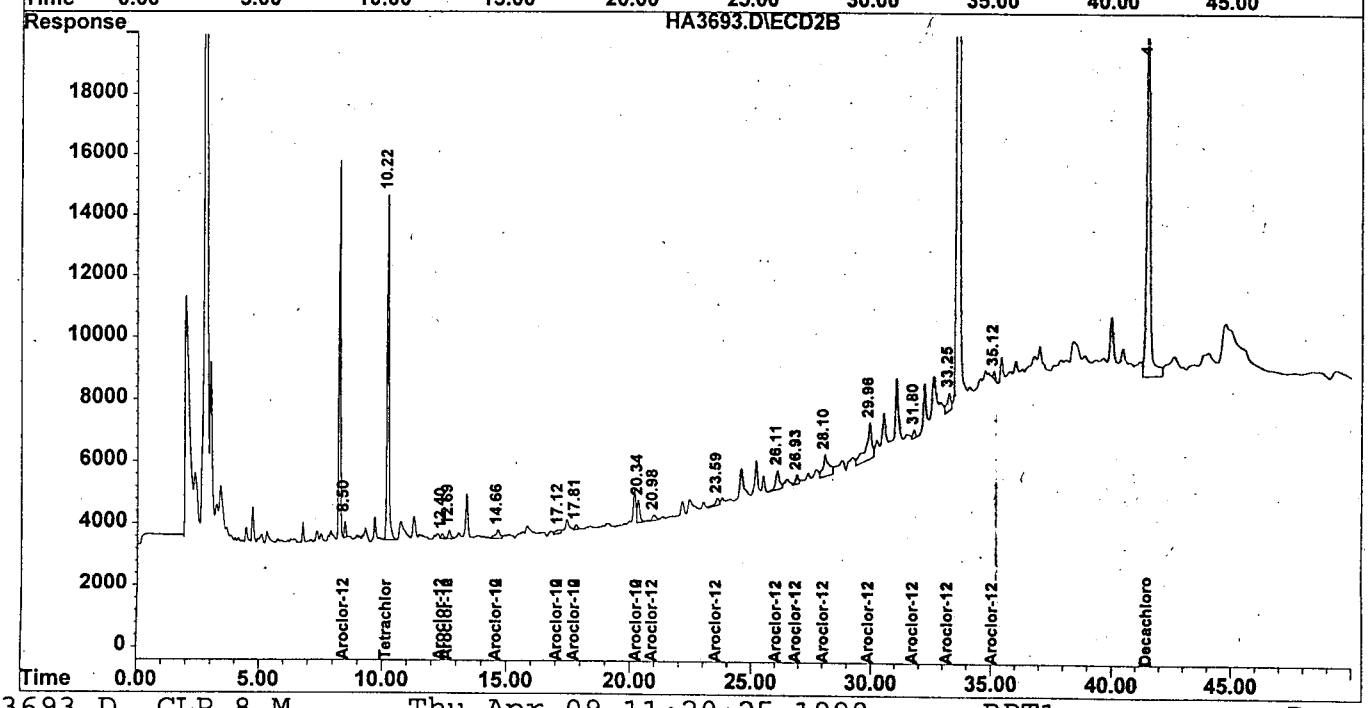
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3693.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA_H\HA3693.D\ECD2B.CH
Acq On : 8 Apr 98 4:36 Operator:
Sample : 286623 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 9:21 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm





1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CD-04

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

Matrix: (soil/water) SOIL Lab Sample ID: 286624

Sample wt/vol: 30.1 (g/mL) G Lab File ID: HA3694

% Moisture: 22.1 decanted: (Y/N) N Date Received: 03/28/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/29/98

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/08/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	43.	U
11104-28-2	Aroclor-1221	43.	U
11141-16-5	Aroclor-1232	43.	U
53469-21-9	Aroclor-1242	43.	U
12672-29-6	Aroclor-1248	43.	U
11097-69-1	Aroclor-1254	43.	U
11096-82-5	Aroclor-1260	140.	

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3694.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA_H\HA3694.D\ECD2B.CH
Acq On : 8 Apr 98 5:30 Operator:
Sample : 286624 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 11:08 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.42	10.22	552236	549315	33.836	43.702	#
Spiked Amount 40.000 Range 60 - 150 Recovery =					84.59%	109.26%	
22) SA Decachlorobiphen	39.47	41.52	988809	1223922	44.518	46.092	
Spiked Amount 40.000 Range 60 - 150 Recovery =					111.30%	115.23%	
Target Compounds							
23) L1 Aroclor-1016{1}	10.75	12.75	38451	193560	104.023	632.866	#
24) L1 Aroclor-1016{2}	12.72	14.65	45995	67451	62.378	96.483	#
25) L1 Aroclor-1016{3}	14.63	17.12	35492	53772	24.768	42.804	#
26) L1 Aroclor-1016{4}	0.00	17.80	0	16590	N.D.	32.604	#
27) L1 Aroclor-1016{5}	18.08	0.00	55437	0	122.301	N.D.	#
Sum Aroclor-1016			175375	331374	313.470	804.756	
Average Aroclor-1016					78.368	201.189	
28) L2 Aroclor-1221{1}	7.19	0.00	36020	0	234.696	N.D.	#
29) L2 Aroclor-1221{2}	0.00	12.39	0	79673	N.D.	685.406	#
30) L2 Aroclor-1221{3}	10.75	12.75	38451	193560	78.569	390.863	#
Sum Aroclor-1221			74471	273234	313.266	1076.268	
Average Aroclor-1221					156.633	538.134	
31) L3 Aroclor-1232{1}	10.75	8.50	38451	62078	95.758	438.651	#
32) L3 Aroclor-1232{2}	12.72	12.75	45995	193560	123.801	547.908	#
33) L3 Aroclor-1232{3}	14.63	14.65	35492	67451	50.039	203.369	#
34) L3 Aroclor-1232{4}	0.00	17.12	0	53772	N.D.	87.317	#
Sum Aroclor-1232			119938	376862	269.598	1277.245	
Average Aroclor-1232					89.866	319.311	
35) L4 Aroclor-1242{1}	10.75	12.75	38451	193560	153.284	909.503	#
36) L4 Aroclor-1242{2}	12.72	14.65	45995	67451	99.092	159.120	#
37) L4 Aroclor-1242{3}	14.63	17.12	35492	53772	34.802	71.319	#
38) L4 Aroclor-1242{4}	0.00	17.80	0	16590	N.D.	55.219	#
39) L4 Aroclor-1242{5}	18.08	0.00	55437	0	177.511	N.D.	#
Sum Aroclor-1242			175375	331374	464.688	1195.162	
Average Aroclor-1242					116.172	298.791	

7/21/98

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3694.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA_H\HA3694.D\ECD2B.CH
Acq On : 8 Apr 98 5:30 Operator:
Sample : 286624 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 11:08 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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}	12.72	14.65	45995	67451	154.477	239.555	#
41) L5	Aroclor-1248{2}	14.63	17.12	35492	53772	38.058	64.063	#
42) L5	Aroclor-1248{3}	16.43	0.00	40831	0	83.918	N.D.	#
43) L5	Aroclor-1248{4}	18.08	0.00	55437	0	89.703	N.D.	#
44) L5	Aroclor-1248{5}	19.77	20.95	68287	13510	86.953	27.296	#
Sum	Aroclor-1248			246042	134733	453.110	330.914	
Average	Aroclor-1248					90.622	110.305	
						NP	NP	
45) L6	Aroclor-1254{1}	20.43	22.64	117551	172054	163.254	191.392	
46) L6	Aroclor-1254{2}	20.96	23.61	146538	1222918	157.983m	1450.261	#
47) L6	Aroclor-1254{3}	23.76	26.11	267788	361508	255.513	344.058	#
48) L6	Aroclor-1254{4}	26.88	28.09	222992	504389	~~307.030~~	~~948.206~~	#
49) L6	Aroclor-1254{5}	27.60	29.95	439668	810579	~~370.522m~~	~~812.269~~	#
Sum	Aroclor-1254			1194537	3071448	~~1254.301~~	~~3746.185~~	
Average	Aroclor-1254					~~250.860~~	~~749.237~~	
						Sum 576.[illegible]	1925.911	
						Avg [illegible]	NP 1.904	
50) L7	Aroclor-1260{1}	24.72	26.93	290955	238276	271.525	276.198	
51) L7	Aroclor-1260{2}	25.41	28.09	501030	504389	420.765	486.833	
52) L7	Aroclor-1260{3}	29.73	31.80	263057	258422	340.460	392.942	
53) L7	Aroclor-1260{4}	30.69	33.26	466073	366618	310.956	274.950	
54) L7	Aroclor-1260{5}	32.92	35.12	456655	235174	388.312	202.196	#
Sum	Aroclor-1260			1977770	1602878	1732.018	1633.118	
Average	Aroclor-1260					346.404	326.624	
Sum	Toxaphene			0	0	N.D.	N.D.	
Average	Toxaphene					0.000	0.000	

4/9/98

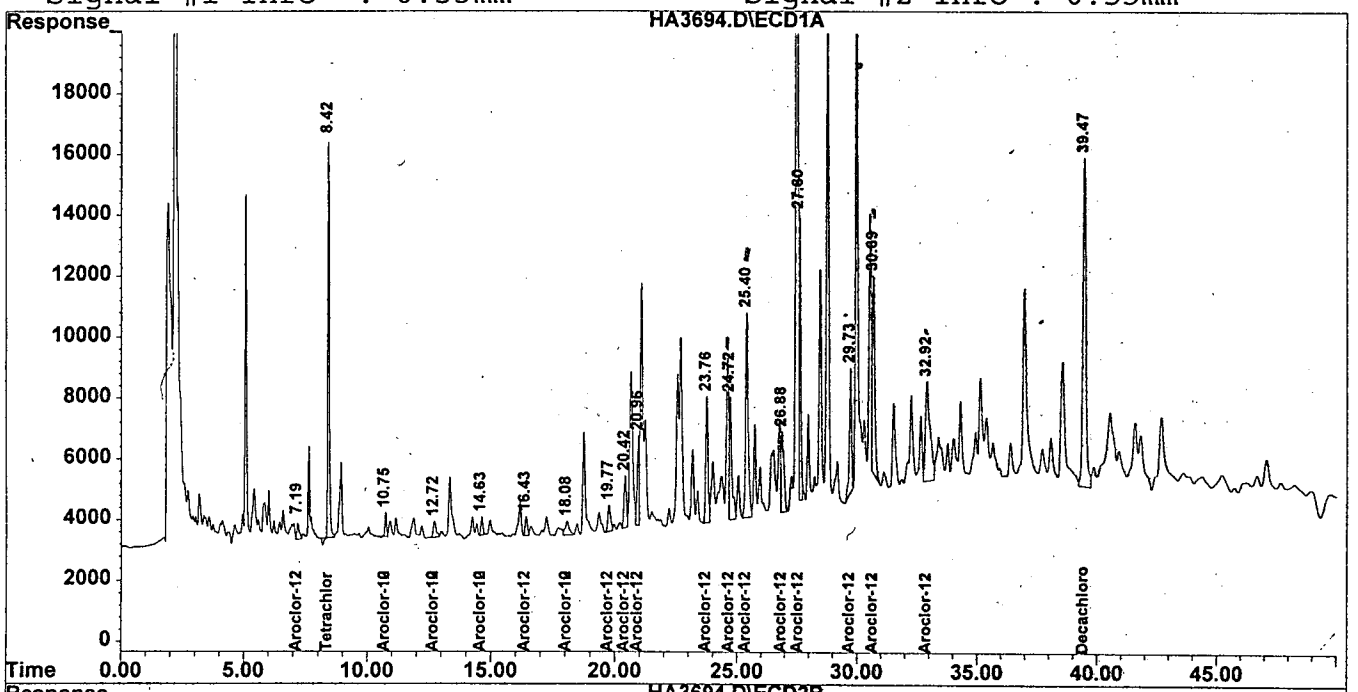
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

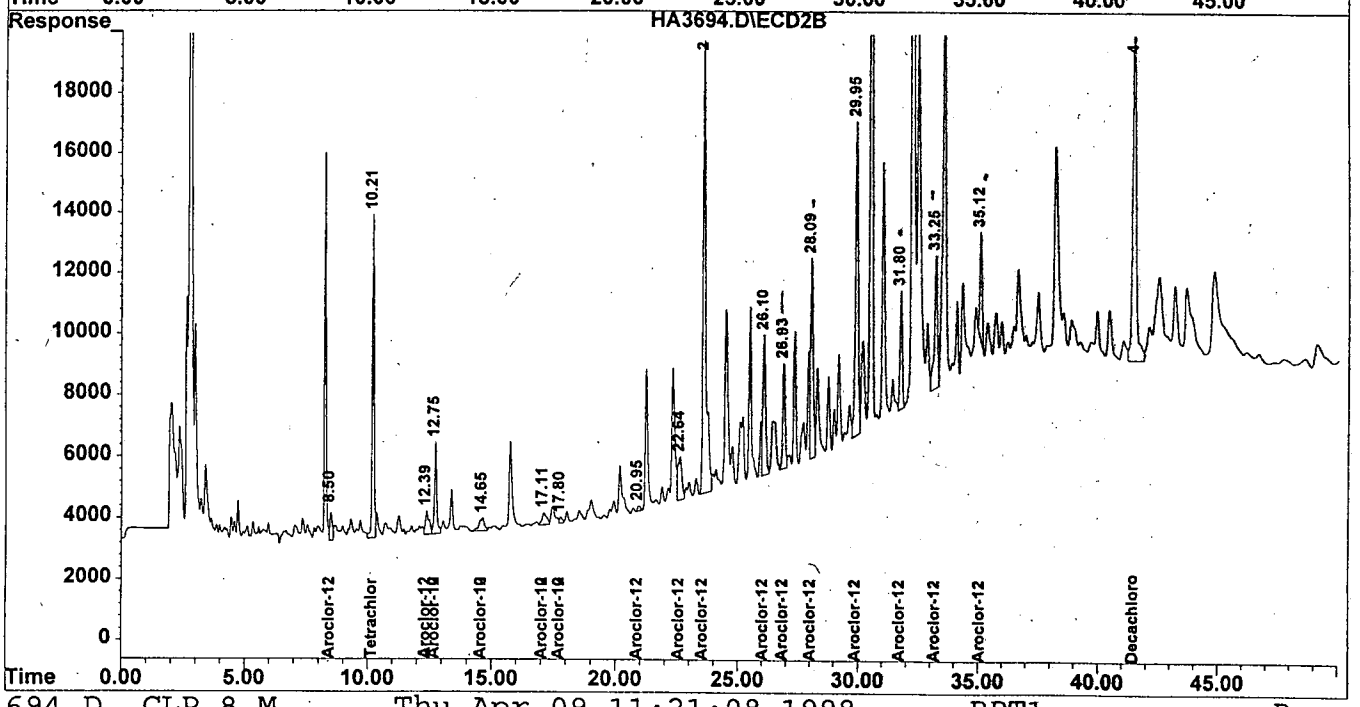
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3694.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA_H\HA3694.D\ECD2B.CH
Acq On : 8 Apr 98 5:30 Operator:
Sample : 286624 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 11:08 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm





1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CD-05

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

Matrix: (soil/water) SOIL Lab Sample ID: 286625

Sample wt/vol: 30.1 (g/mL) G Lab File ID: HA3697

% Moisture: 17./ decanted: (Y/N) N Date Received: 03/28/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/29/98

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/08/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2------	Aroclor-1016	40.	U
11104-28-2------	Aroclor-1221	40.	U
11141-16-5------	Aroclor-1232	40.	U
53469-21-9------	Aroclor-1242	40.	U
12672-29-6------	Aroclor-1248	40.	U
11097-69-1------	Aroclor-1254	40.	U
11096-82-5------	Aroclor-1260	40.	U

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3697.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA_H\HA3697.D\ECD2B.CH
Acq On : 8 Apr 98 14:27 Operator:
Sample : 286625 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 9:27 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.42	10.21	565694	546435	34.661	43.473	#
Spiked Amount 40.000 Range 60 - 150 Recovery =					86.65%	108.68%	
22) SA Decachlorobiphen	39.46	41.51	851158	1211621	38.321	45.629	
Spiked Amount 40.000 Range 60 - 150 Recovery =					95.80%	114.07%	
Target Compounds							
23) L1 Aroclor-1016{1}	10.75	12.69	26737	18470	72.333	60.391	
24) L1 Aroclor-1016{2}	12.70	14.65	15157	28666	20.556	41.004	#
25) L1 Aroclor-1016{3}	14.63	17.12	42843	28185	29.899	22.436	
26) L1 Aroclor-1016{4}	0.00	17.80	0	21826	N.D.	42.894	#
Sum Aroclor-1016			84738	97148	122.788	166.725	
Average Aroclor-1016					40.929	41.681	
29) L2 Aroclor-1221{2}	0.00	12.40	0	24811	N.D.	213.438	#
30) L2 Aroclor-1221{3}	10.75	12.69	26737	18470	54.634	37.298	#
Sum Aroclor-1221			26737	43281	54.634	250.736	
Average Aroclor-1221					54.634	125.368	
31) L3 Aroclor-1232{1}	10.75	8.49	26737	37264	66.586	263.316	#
32) L3 Aroclor-1232{2}	12.70	12.69	15157	18470	40.798	52.284	#
33) L3 Aroclor-1232{3}	14.63	14.65	42843	28666	60.403	86.429	#
34) L3 Aroclor-1232{4}	0.00	17.12	0	28185	N.D.	45.769	#
Sum Aroclor-1232			84738	112586	167.786	447.797	
Average Aroclor-1232					55.929	111.949	
35) L4 Aroclor-1242{1}	10.75	12.69	26737	18470	106.587	86.789	
36) L4 Aroclor-1242{2}	12.70	14.65	15157	28666	32.655	67.624	#
37) L4 Aroclor-1242{3}	14.63	17.12	42843	28185	42.010	37.383	
38) L4 Aroclor-1242{4}	0.00	17.80	0	21826	N.D.	72.648	#
Sum Aroclor-1242			84738	97148	181.252	264.443	
Average Aroclor-1242					60.417	66.111	
40) L5 Aroclor-1248{1}	12.70	14.65	15157	28666	50.907	101.807	#
41) L5 Aroclor-1248{2}	14.63	17.12	42843	28185	45.941	33.579	#
42) L5 Aroclor-1248{3}	0.00	18.87	0	21071	N.D.	43.821	#

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3697.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA_H\HA3697.D\ECD2B.CH
Acq On : 8 Apr 98 14:27 Operator:
Sample : 286625 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 9:27 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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}	0.00	20.98	0	11536	N.D.	23.308	#
	Sum Aroclor-1248			58000	89458	96.848	202.516	
	Average Aroclor-1248					48.424	50.629	
						no	no	
46)	L6 Aroclor-1254{2}	20.95	23.59	22349	25292	24.095	29.994	
47)	L6 Aroclor-1254{3}	23.75	26.10	58639	62700	55.951	59.673	
48)	L6 Aroclor-1254{4}	26.88	28.09	63609	129772	87.581	243.961	#
49)	L6 Aroclor-1254{5}	27.60	29.95	123596	163892	104.158	164.234	#
	Sum Aroclor-1254			268193	381656	271.785	497.862	
	Average Aroclor-1254					67.946	124.465	
						no	no	
50)	L7 Aroclor-1260{1}	24.72	26.92	64357	42487	60.059	49.249	
51)	L7 Aroclor-1260{2}	25.40	28.09	124607	129772	104.645	125.256	
52)	L7 Aroclor-1260{3}	29.72	31.79	43288	38635	56.026	58.747	
53)	L7 Aroclor-1260{4}	30.70	33.25	839596	43046	560.165	32.283	#
54)	L7 Aroclor-1260{5}	32.91	35.10	88429	103865	75.195	89.300	
	Sum Aroclor-1260			1160277	357806	856.089	354.834	
	Average Aroclor-1260					~~171.218~~ NC	~~70.967~~ NC	
	Sum Toxaphene			0	0	N.D.	N.D.	
	Average Toxaphene					0.000	0.000	

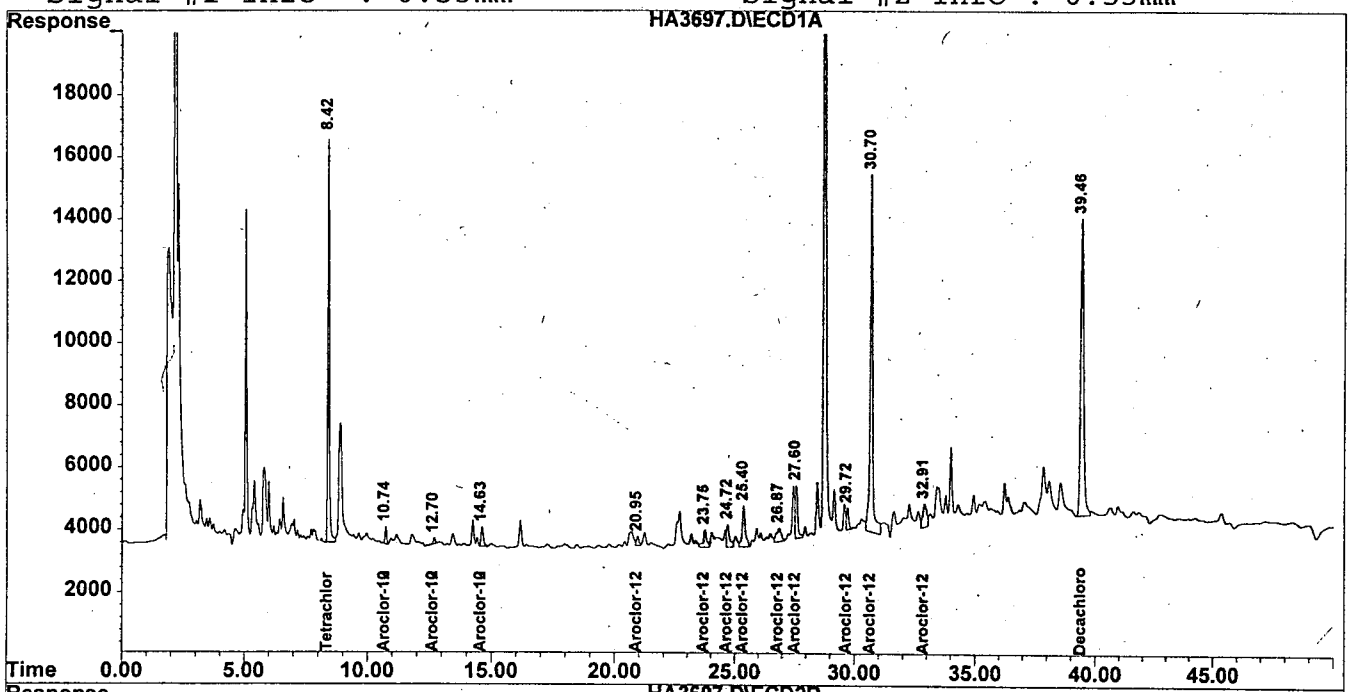
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

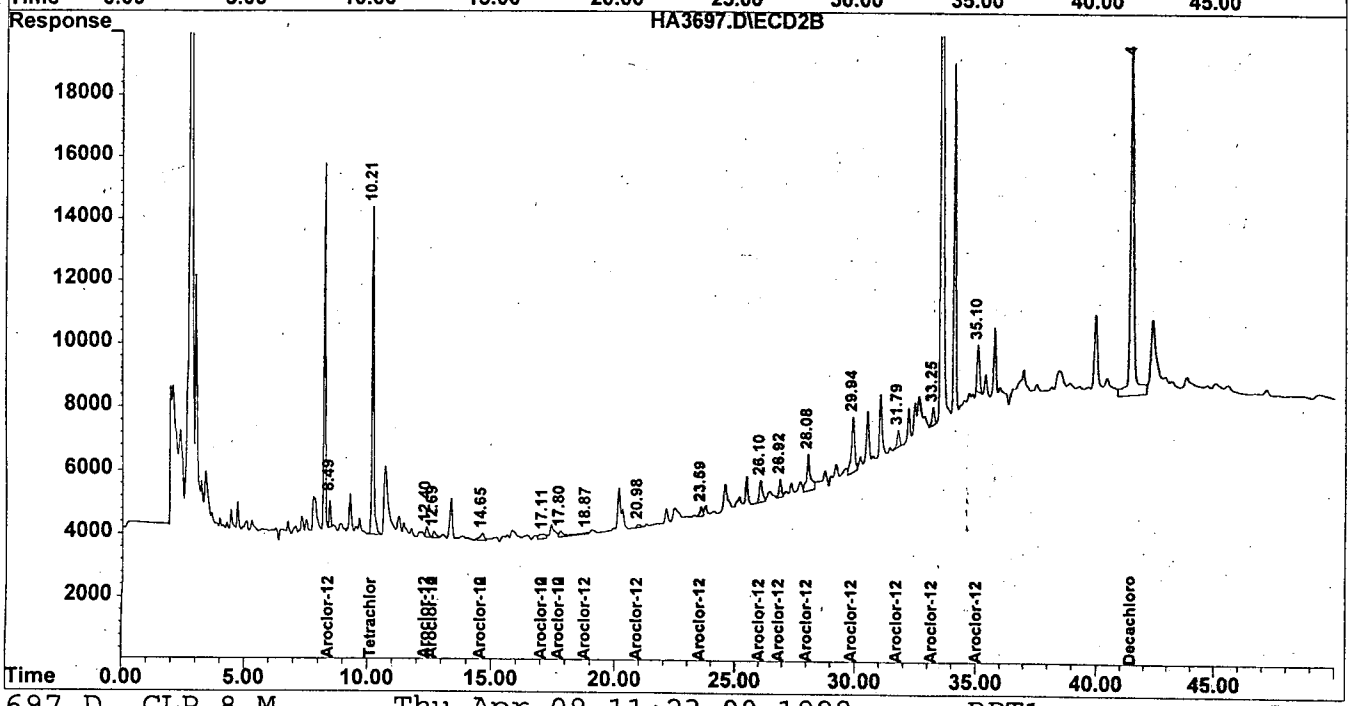
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3697.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA_H\HA3697.D\ECD2B.CH
Acq On : 8 Apr 98 14:27 Operator:
Sample : 286625 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 9:27 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm





1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CD-06

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

Matrix: (soil/water) SOIL Lab Sample ID: 286626

Sample wt/vol: 30.0 (g/mL) G Lab File ID: HA3698

% Moisture: 15./ decanted: (Y/N) N Date Received: 03/28/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/29/98

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/08/98

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
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	39.	U
11096-82-5------	Aroclor-1260	39.	U

FORM I PEST

OLM03.0

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3698.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA_H\HA3698.D\ECD2B.CH
Acq On : 8 Apr 98 15:22 Operator:
Sample : 286626 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:15 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.42	10.21	543924	590018	33.327	46.940	#
Spiked Amount 40.000 Range 60 - 150 Recovery =					83.32%	117.35%	
22) SA Decachlorobiphen	39.46	41.50	895307	1091064	40.308	41.089	
Spiked Amount 40.000 Range 60 - 150 Recovery =					100.77%	102.72%	
Target Compounds							
23) L1 Aroclor-1016{1}	10.75	12.68	59494	66077	160.952	216.047	#
24) L1 Aroclor-1016{2}	12.70	14.65	88520	75404	120.048	107.859	
25) L1 Aroclor-1016{3}	14.63	17.06	75252	42576	52.516	33.891	#
26) L1 Aroclor-1016{4}	0.00	17.81	0	34230	N.D.	67.270	#
Sum Aroclor-1016			223266	218287	333.516	425.067	
Average Aroclor-1016					111.172	108.267	
28) L2 Aroclor-1221{1}	0.00	11.65	0	44973	N.D.	276.318	#
29) L2 Aroclor-1221{2}	0.00	12.39	0	27360	N.D.	235.366	#
30) L2 Aroclor-1221{3}	10.75	12.68	59494	66077	121.568	133.432	
Sum Aroclor-1221			59494	138410	121.568	645.116	
Average Aroclor-1221					121.568	215.039	
31) L3 Aroclor-1232{1}	10.75	8.49	59494	22488	148.163	158.903	
32) L3 Aroclor-1232{2}	12.70	12.68	88520	66077	238.260	187.044	
33) L3 Aroclor-1232{3}	14.63	14.65	75252	75404	106.095	227.347	#
34) L3 Aroclor-1232{4}	0.00	17.06	0	42576	N.D.	69.136	#
Sum Aroclor-1232			223266	206545	492.519	642.430	
Average Aroclor-1232					164.173	160.607	
35) L4 Aroclor-1242{1}	10.75	12.68	59494	66077	237.171	310.485	#
36) L4 Aroclor-1242{2}	12.70	14.65	88520	75404	190.706	177.881	
37) L4 Aroclor-1242{3}	14.63	17.06	75252	42576	73.789	56.469	
38) L4 Aroclor-1242{4}	0.00	17.81	0	34230	N.D.	113.932	#
Sum Aroclor-1242			223266	218287	501.667	658.767	
Average Aroclor-1242					167.222	164.692	
40) L5 Aroclor-1248{1}	12.70	14.65	88520	75404	297.297	267.799	
41) L5 Aroclor-1248{2}	14.63	17.06	75252	42576	80.694	50.723	#

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3698.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA_H\HA3698.D\ECD2B.CH
Acq On : 8 Apr 98 15:22 Operator:
Sample : 286626 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:15 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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}	19.78	20.92	183359	34631	233.478	69.969	#
	Sum Aroclor-1248			347130	152610	611.470	388.492	
	Average Aroclor-1248					203.823	129.497	
45)	L6 Aroclor-1254{1}	20.39	22.67	581500	74877	807.583	83.293	#
47)	L6 Aroclor-1254{3}	23.75	26.10	48398	706353	46.180	672.256	#
48)	L6 Aroclor-1254{4}	26.94	28.08	128912	56641	177.494	106.480	#
49)	L6 Aroclor-1254{5}	27.56	29.98	184651	1095162	155.611	1097.445	#
	Sum Aroclor-1254			943461	1933033	1186.867	1959.474	
	Average Aroclor-1254					296.717	489.868	
50)	L7 Aroclor-1260{1}	24.73	26.92	22904	22380	21.375	25.941	
51)	L7 Aroclor-1260{2}	0.00	28.08	0	56641	N.D.	54.670	#
52)	L7 Aroclor-1260{3}	29.72	0.00	50274	0	65.067	N.D.	#
53)	L7 Aroclor-1260{4}	30.68	33.24	50583	106406	33.748	79.801	#
54)	L7 Aroclor-1260{5}	32.91	35.11	51972	30463	44.194	26.191	#
	Sum Aroclor-1260			175733	215890	164.383	186.603	
	Average Aroclor-1260					41.096	46.651	
	Sum Toxaphene			0	0	N.D.	N.D.	
	Average Toxaphene					0.000	0.000	

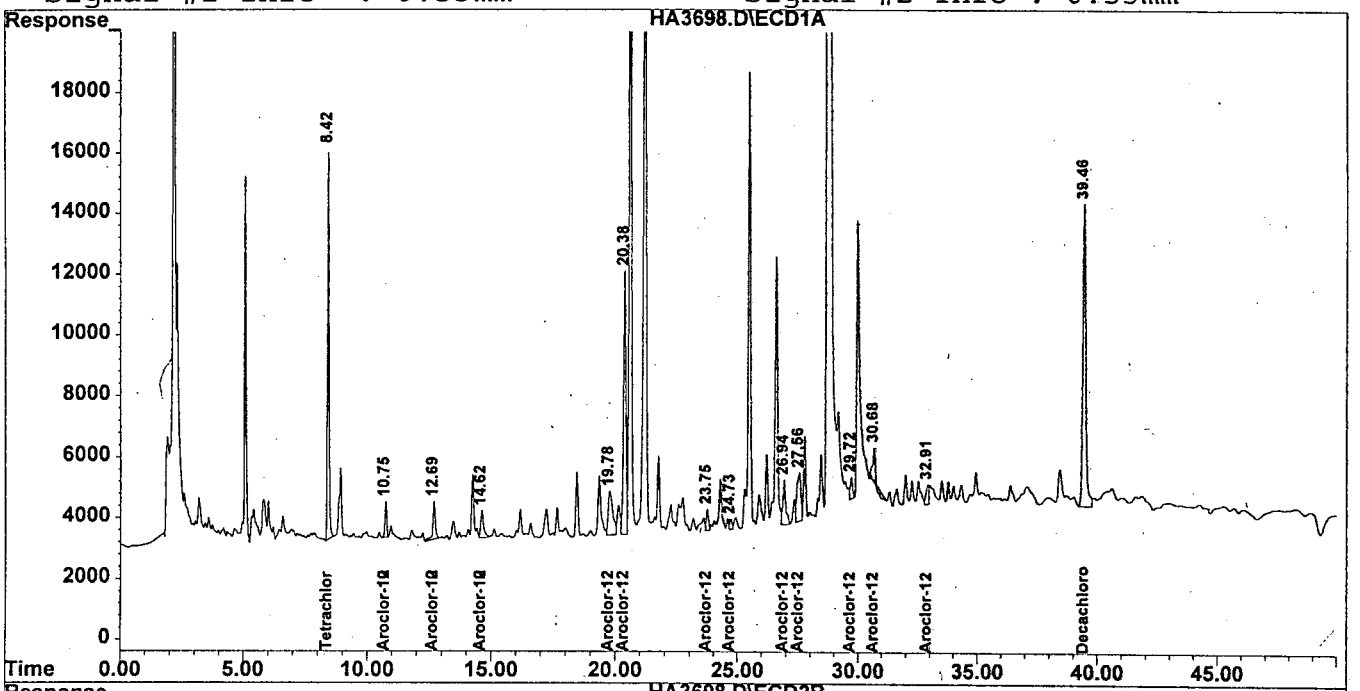
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

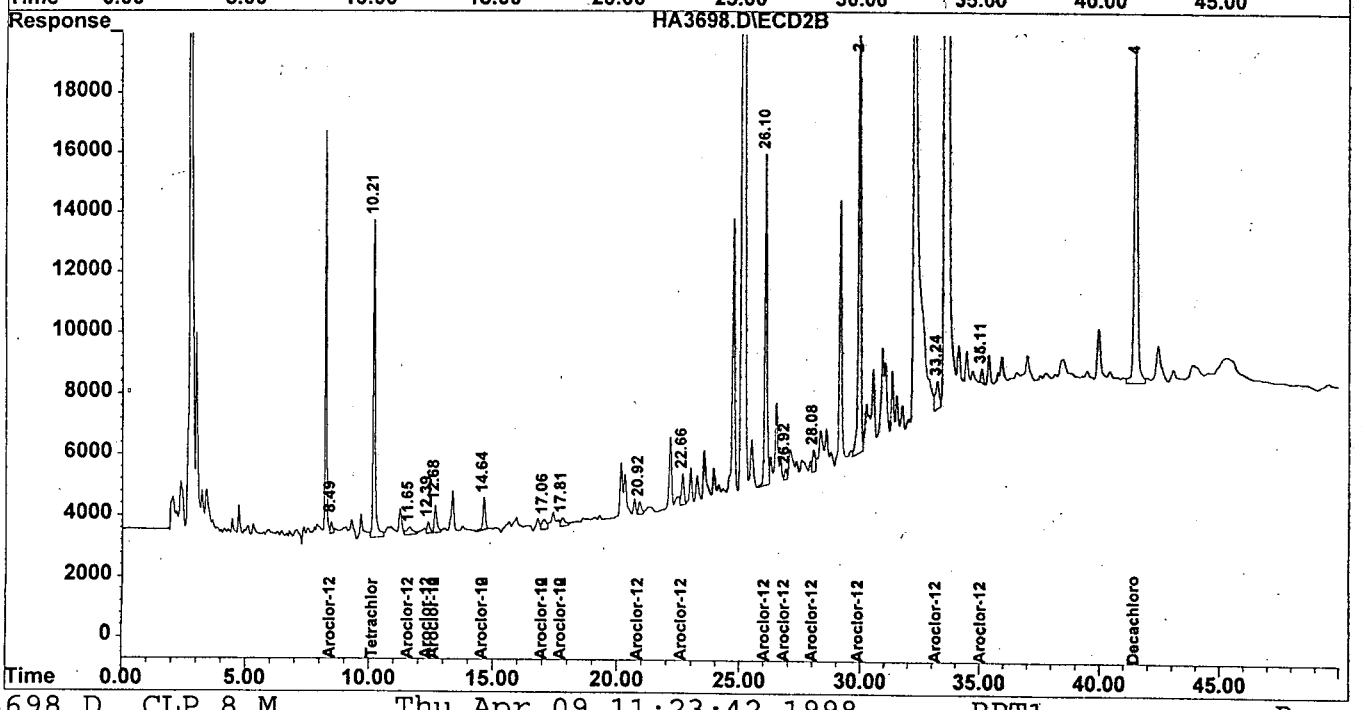
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3698.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA_H\HA3698.D\ECD2B.CH
Acq On : 8 Apr 98 15:22 Operator:
Sample : 286626 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:15 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm





1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CD-07

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

Matrix: (soil/water) SOIL Lab Sample ID: 286627

Sample wt/vol: 30.1 (g/mL) G Lab File ID: HA3699

% Moisture: 21.1 decanted: (Y/N) N Date Received: 03/28/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/29/98

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/08/98

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
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	76 ~~42.~~	~~U~~ J
11096-82-5------	Aroclor-1260	61 ~~79.~~	J

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3699.D\ECD1A.CH Vial: 18
Signal #2 : C:\HPCHEM\1\DATA_H\HA3699.D\ECD2B.CH
Acq On : 8 Apr 98 16:16 Operator:
Sample : 286627 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:20 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.41	10.20	724921	715890	44.417	56.954	#
Spiked Amount 40.000 Range 60 - 150 Recovery =					111.04%	142.39%	
22) SA Decachlorobiphen	39.46	41.50	1135264	1389062	51.112	52.312	
Spiked Amount 40.000 Range 60 - 150 Recovery =					127.78%	130.78%	
Target Compounds							
23) L1 Aroclor-1016{1}	10.74	12.67	84903	67016	229.691	219.114	
24) L1 Aroclor-1016{2}	12.69	14.64	113557	99640	154.003	142.527	
25) L1 Aroclor-1016{3}	14.62	17.06	50587	26403	35.303	21.017	#
26) L1 Aroclor-1016{4}	0.00	17.80	0	21699	N.D.	42.644	#
Sum Aroclor-1016			249046	214757	418.996	425.302	
Average Aroclor-1016					139.665	106.326	
28) L2 Aroclor-1221{1}	7.18	0.00	26518	0	172.782	N.D.	#
29) L2 Aroclor-1221{2}	10.47	12.39	10524	25160	64.659	216.446	#
30) L2 Aroclor-1221{3}	10.74	12.67	84903	67016	173.487	135.327	
Sum Aroclor-1221			121945	92176	410.929	351.773	
Average Aroclor-1221					136.976	175.886	
31) L3 Aroclor-1232{1}	10.74	8.49	84903	28146	211.441	198.884	
32) L3 Aroclor-1232{2}	12.69	12.67	113557	67016	305.650	189.700	#
33) L3 Aroclor-1232{3}	14.62	14.64	50587	99640	71.320	300.422	#
34) L3 Aroclor-1232{4}	0.00	17.06	0	26403	N.D.	42.873	#
Sum Aroclor-1232			249046	221205	588.411	731.879	
Average Aroclor-1232					196.137	182.970	
35) L4 Aroclor-1242{1}	10.74	12.67	84903	67016	338.462	314.893	
36) L4 Aroclor-1242{2}	12.69	14.64	113557	99640	244.646	235.056	
37) L4 Aroclor-1242{3}	14.62	17.06	50587	26403	49.603	35.018	#
38) L4 Aroclor-1242{4}	0.00	17.80	0	21699	N.D.	72.224	#
Sum Aroclor-1242			249046	214757	632.711	657.192	
Average Aroclor-1242					210.904	164.298	
40) L5 Aroclor-1248{1}	12.69	14.64	113557	99640	381.386	353.876	
41) L5 Aroclor-1248{2}	14.62	17.06	50587	26403	54.245	31.455	#

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3699.D\ECD1A.CH Vial: 18
Signal #2 : C:\HPCHEM\1\DATA_H\HA3699.D\ECD2B.CH
Acq On : 8 Apr 98 16:16 Operator:
Sample : 286627 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:20 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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}	16.41	18.87	34812	21926	71.548	45.599	#
44)	L5 Aroclor-1248{5}	19.76	20.96	38936	17988	49.578	36.344	#
	Sum Aroclor-1248			237891	165957	556.756	467.274	
	Average Aroclor-1248					139.189	116.819	
						AVG=180.65	AVG=186.59	
45)	L6 Aroclor-1254{1}	20.42	22.62	97576	132984	135.512	147.930	
46)	L6 Aroclor-1254{2}	20.94	23.59	209476	189936	225.836	225.245	
47)	L6 Aroclor-1254{3}	23.74	26.09	255503	301136	243.791	286.600	
48)	L6 Aroclor-1254{4}	26.87	28.08	140652	331958	193.659	624.051	#
49)	L6 Aroclor-1254{5}	27.59	29.94	349344	533941	294.403	535.054	#
	Sum Aroclor-1254			1052552	1489955	1093.202	1818.881	
	Average Aroclor-1254					218.640	363.776	
						no	no	
50)	L7 Aroclor-1260{1}	24.71	26.92	186134	163085	173.704	189.040	
51)	L7 Aroclor-1260{2}	25.39	28.08	346924	331958	291.347	320.404	
52)	L7 Aroclor-1260{3}	29.72	31.79	150178	141782	194.368	215.586	
53)	L7 Aroclor-1260{4}	30.69	33.25	391199	197983	261.002	148.480	#
54)	L7 Aroclor-1260{5}	32.91	35.11	278511	84503	236.829	72.654	#
	Sum Aroclor-1260			1352948	919312	1157.250	946.164	
	Average Aroclor-1260					231.450	189.233	
	Sum Toxaphene			0	0	N.D.	N.D.	
	Average Toxaphene					AVG=230.73 0.000	AVG=145.58 0.000	

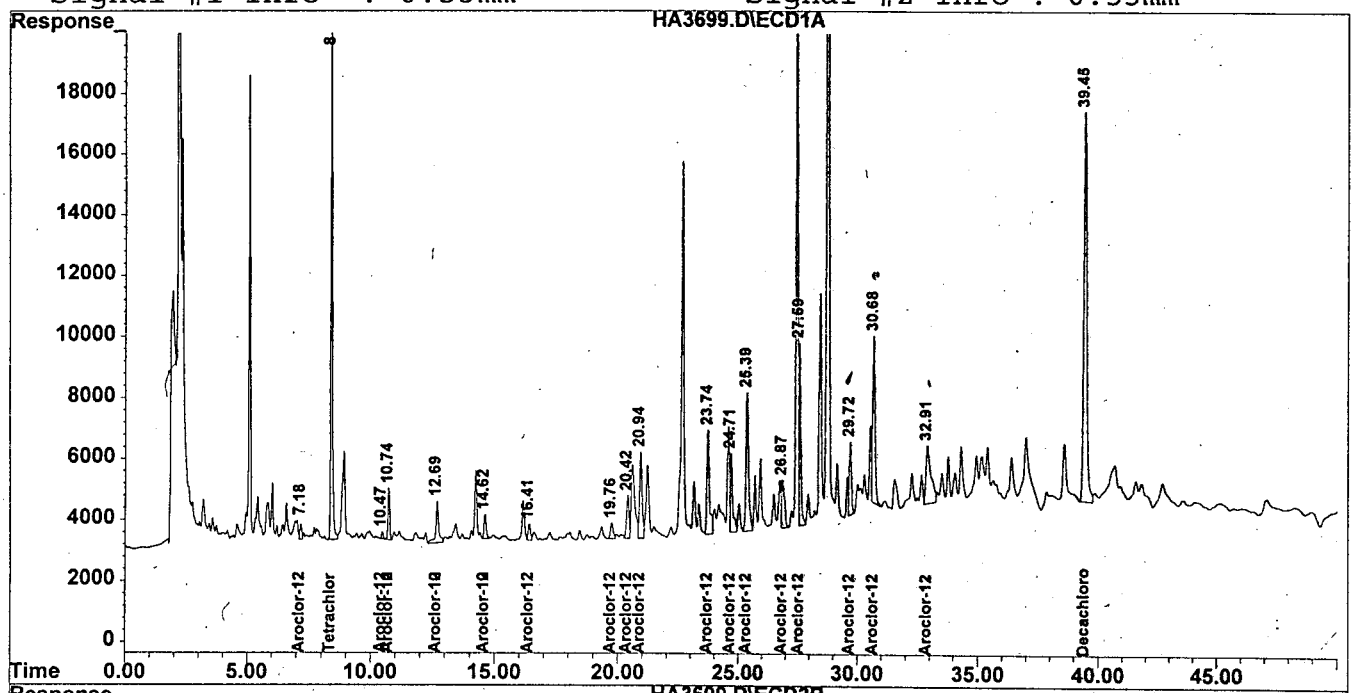
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

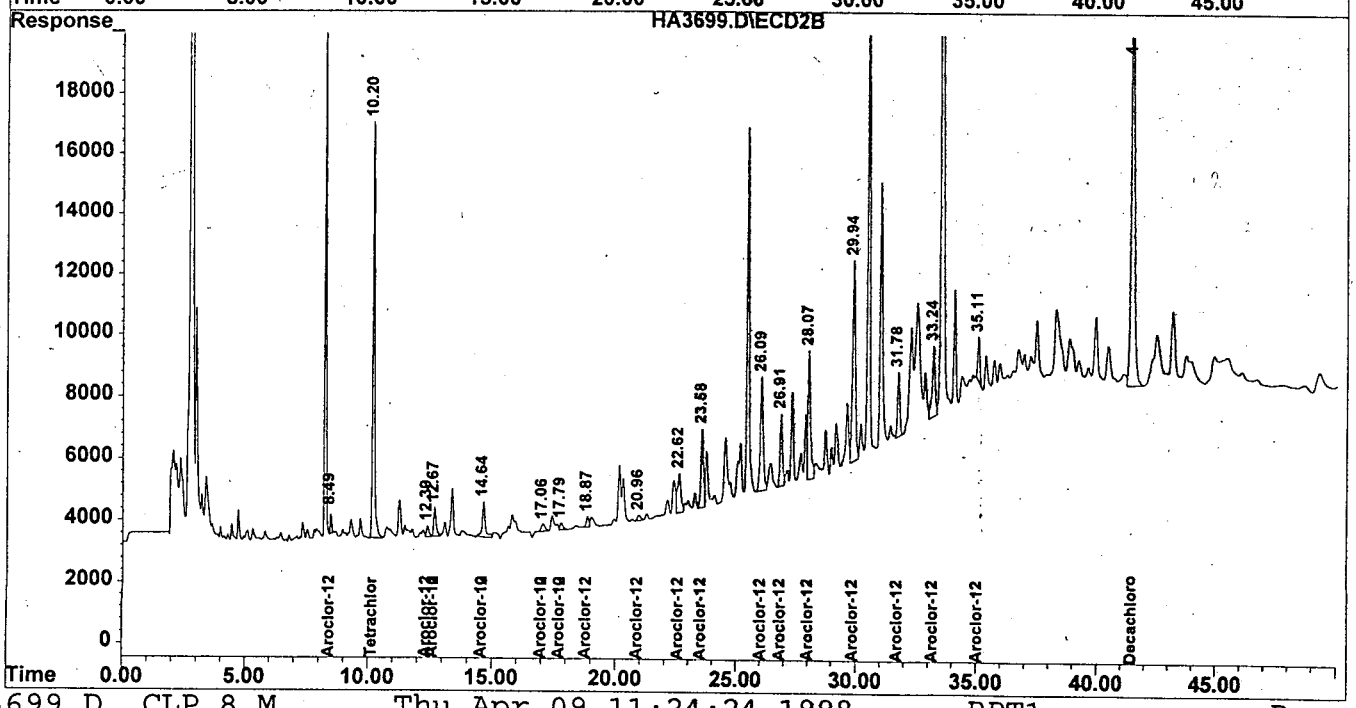
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3699.D\ECD1A.CH Vial: 18
Signal #2 : C:\HPCHEM\1\DATA_H\HA3699.D\ECD2B.CH
Acq On : 8 Apr 98 16:16 Operator:
Sample : 286627 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:20 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm





1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CD-08

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

Matrix: (soil/water) SOIL Lab Sample ID: 286628

Sample wt/vol: 30.1 (g/mL) G Lab File ID: HA3700

% Moisture: 25. / decanted: (Y/N) N Date Received: 03/28/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/29/98

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/08/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	44.	U
11104-28-2	Aroclor-1221	44.	U
11141-16-5	Aroclor-1232	44.	U
53469-21-9	Aroclor-1242	44.	U
12672-29-6	Aroclor-1248	44.	U
11097-69-1	Aroclor-1254	50 ~~44.~~	~~U~~ J
11096-82-5	Aroclor-1260	53 ~~66.~~	J

FORM I PEST

OLM03.0

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3700.D\ECD1A.CH Vial: 19
Signal #2 : C:\HPCHEM\1\DATA_H\HA3700.D\ECD2B.CH
Acq On : 8 Apr 98 17:10 Operator:
Sample : 286628 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:25 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.41	10.20	379462	372351	23.250	29.623 #
Spiked Amount 40.000 Range 60 - 150 Recovery =					58.13%#	74.06%
22) SA Decachlorobiphen	39.45	41.49	727833	831784	32.768	31.325
Spiked Amount 40.000 Range 60 - 150 Recovery =					81.92%	78.31%
Target Compounds						
23) L1 Aroclor-1016{1}	10.74	12.68	35162	31812	95.126	104.014
24) L1 Aroclor-1016{2}	12.69	14.64	44475	45654	60.317	65.304
25) L1 Aroclor-1016{3}	14.62	17.08	38912	24456	27.155	19.468 #
26) L1 Aroclor-1016{4}	0.00	17.79	0	15442	N.D.	30.347 #
Sum Aroclor-1016			118550	117364	182.598	219.132
Average Aroclor-1016					60.866	54.783
28) L2 Aroclor-1221{1}	7.18	0.00	29837	0	194.407	N.D. #
29) L2 Aroclor-1221{2}	0.00	12.39	0	16343	N.D.	140.594 #
30) L2 Aroclor-1221{3}	10.74	12.68	35162	31812	71.850	64.240
Sum Aroclor-1221			64999	48155	266.257	204.834
Average Aroclor-1221					133.128	102.417
31) L3 Aroclor-1232{1}	10.74	8.49	35162	42843	87.568	302.732 #
32) L3 Aroclor-1232{2}	12.69	12.68	44475	31812	119.711	90.050
33) L3 Aroclor-1232{3}	14.62	14.64	38912	45654	54.860	137.650 #
34) L3 Aroclor-1232{4}	0.00	17.08	0	24456	N.D.	39.713 #
Sum Aroclor-1232			118550	144765	262.139	570.145
Average Aroclor-1232					87.380	142.536
35) L4 Aroclor-1242{1}	10.74	12.68	35162	31812	140.174	149.480
36) L4 Aroclor-1242{2}	12.69	14.64	44475	45654	95.818	107.700
37) L4 Aroclor-1242{3}	14.62	17.08	38912	24456	38.155	32.437
38) L4 Aroclor-1242{4}	0.00	17.79	0	15442	N.D.	51.397 #
Sum Aroclor-1242			118550	117364	274.147	341.014
Average Aroclor-1242					91.382	85.253
40) L5 Aroclor-1248{1}	12.69	14.64	44475	45654	149.373	162.142
41) L5 Aroclor-1248{2}	14.62	17.08	38912	24456	41.726	29.136 #

4/10/98

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3700.D\ECD1A.CH Vial: 19
Signal #2 : C:\HPCHEM\1\DATA_H\HA3700.D\ECD2B.CH
Acq On : 8 Apr 98 17:10 Operator:
Sample : 286628 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:25 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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}	16.41	18.87	14769	11958	30.353	24.869
44) L5	Aroclor-1248{5}	19.76	20.94	22382	11786	28.500	23.813
Sum	Aroclor-1248			120538	93854	249.952	239.960
Average	Aroclor-1248					62.488	59.990
						AVG=112.85	AVG=129.62
45) L6	Aroclor-1254{1}	20.41	22.62	55450	71171	77.009	79.170
46) L6	Aroclor-1254{2}	20.94	23.58	137917	151846	148.688	180.075
47) L6	Aroclor-1254{3}	23.74	26.08	191309	223254	182.540	212.477
48) L6	Aroclor-1254{4}	26.86	28.07	125237	263498	172.435	495.354 #
49) L6	Aroclor-1254{5}	27.58	29.93	366899	416392	309.197	417.260 #
Sum	Aroclor-1254			876813	1126161	889.869	1384.336
Average	Aroclor-1254					177.974	276.867
						no	no
50) L7	Aroclor-1260{1}	24.71	26.91	138115	114879	128.891	133.162
51) L7	Aroclor-1260{2}	25.39	28.07	280618	263498	235.663	254.327
52) L7	Aroclor-1260{3}	29.71	31.77	114510	118432	148.204	180.081
53) L7	Aroclor-1260{4}	30.68	33.24	270000	167198	180.140	125.392 #
54) L7	Aroclor-1260{5}	32.91	35.10	215668	59233	183.391	50.927 #
Sum	Aroclor-1260			1018911	723240	876.289	743.890
Average	Aroclor-1260					175.258	148.778
						170.58	118.8
Sum	Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000

mo 4/9/98

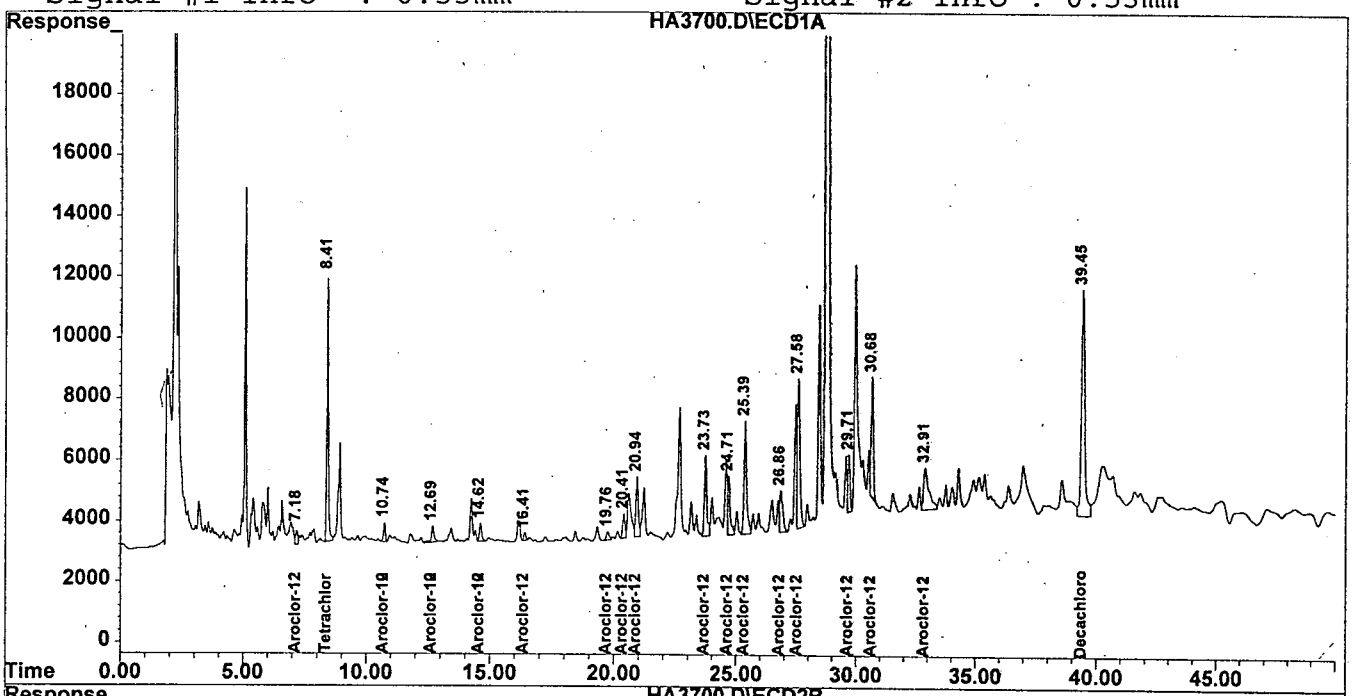
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

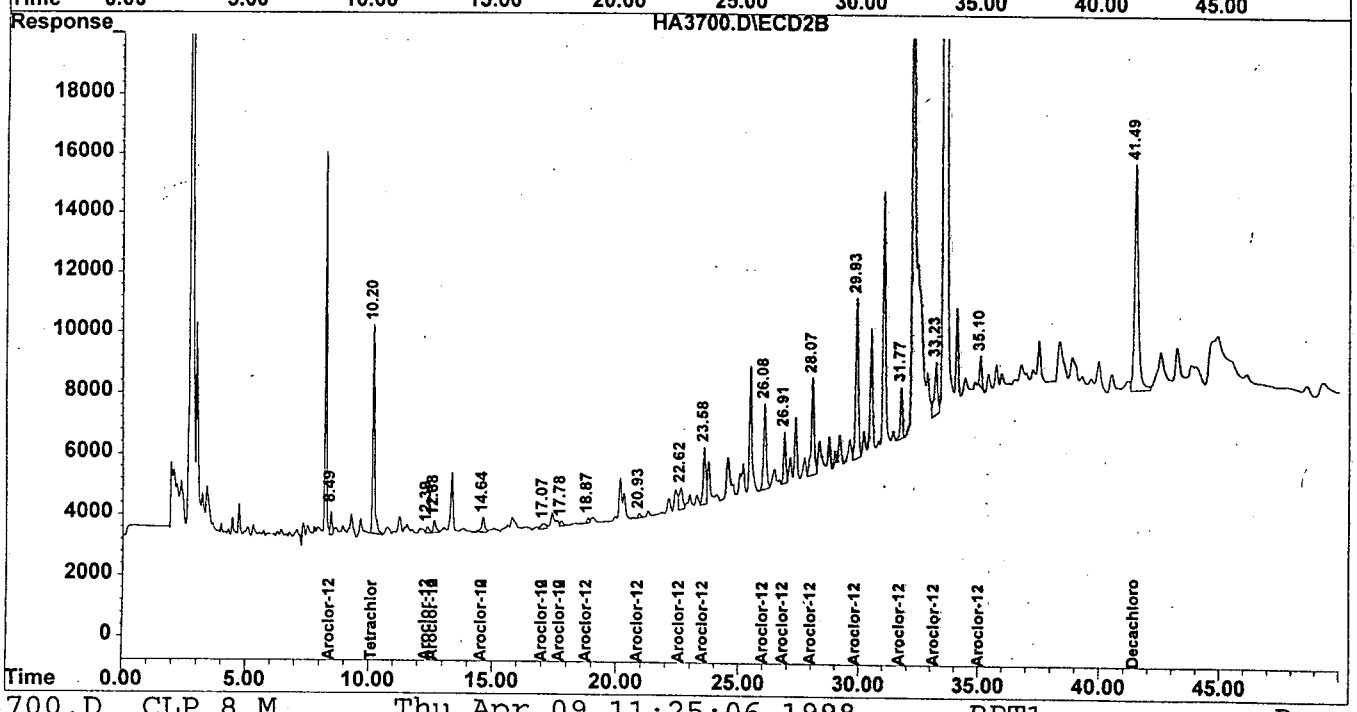
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3700.D\ECD1A.CH Vial: 19
Signal #2 : C:\HPCHEM\1\DATA_H\HA3700.D\ECD2B.CH
Acq On : 8 Apr 98 17:10 Operator:
Sample : 286628 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:25 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm





1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CD-09

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

Matrix: (soil/water) SOIL Lab Sample ID: 286629

Sample wt/vol: 30.1 (g/mL) G Lab File ID: HA3701

% Moisture: 25./ decanted: (Y/N) N Date Received: 03/28/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/29/98

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/08/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2------	Aroclor-1016	44.	U
11104-28-2------	Aroclor-1221	44.	U
11141-16-5------	Aroclor-1232	44.	U
53469-21-9------	Aroclor-1242	44.	U
12672-29-6------	Aroclor-1248	44.	U
11097-69-1------	Aroclor-1254	44.	U
11096-82-5------	Aroclor-1260	44.	U

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3701.D\ECD1A.CH Vial: 20
Signal #2 : C:\HPCHEM\1\DATA_H\HA3701.D\ECD2B.CH
Acq On : 8 Apr 98 18:04 Operator:
Sample : 286629 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 11:06 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.41	10.20	625989	540810	38.355	43.025m
Spiked Amount 40.000 Range 60 - 150 Recovery =					95.89%	107.56%
22) SA Decachlorobiphen	39.45	41.50	1032265	1211281	46.474	45.616
Spiked Amount 40.000 Range 60 - 150 Recovery =					116.19%	114.04%
Target Compounds						
23) L1 Aroclor-1016{1}	0.00	12.67	0	72480	N.D.	236.982 #
24) L1 Aroclor-1016{2}	12.69	14.64	61583	179179	83.517	256.300 #
25) L1 Aroclor-1016{3}	14.62	17.03	88281	69567	61.608	55.377
26) L1 Aroclor-1016{4}	15.43	17.78	53557	64753	126.652	127.255
Sum Aroclor-1016			203421	385979	271.777	675.914
Average Aroclor-1016					90.592	168.978
30) L2 Aroclor-1221{3}	0.00	12.67	0	72480	N.D.	146.362 #
Sum Aroclor-1221			0	72480	N.D.	146.362
Average Aroclor-1221					0.000	146.362
31) L3 Aroclor-1232{1}	0.00	8.49	0	84888	N.D.	599.832 #
32) L3 Aroclor-1232{2}	12.69	12.67	61583	72480	165.757	205.169
33) L3 Aroclor-1232{3}	14.62	14.64	88281	179179	124.463	540.235 #
34) L3 Aroclor-1232{4}	15.43	17.03	53557	69567	283.413	112.966 #
Sum Aroclor-1232			203421	406115	573.633	1458.202
Average Aroclor-1232					191.211	364.550
35) L4 Aroclor-1242{1}	0.00	12.67	0	72480	N.D.	340.571 #
36) L4 Aroclor-1242{2}	12.69	14.64	61583	179179	132.673	422.692 #
37) L4 Aroclor-1242{3}	14.62	17.03	88281	69567	86.564	92.269
38) L4 Aroclor-1242{4}	15.43	17.78	53557	64753	193.454	215.526
Sum Aroclor-1242			203421	385979	412.691	1071.057
Average Aroclor-1242					137.564	267.764
40) L5 Aroclor-1248{1}	12.69	14.64	61583	179179	206.829	636.360 #
41) L5 Aroclor-1248{2}	14.62	17.03	88281	69567	94.665	82.881
42) L5 Aroclor-1248{3}	16.41	18.86	18094	24356	37.188	50.652 #
44) L5 Aroclor-1248{5}	19.76	20.98	26865	9568	34.208	19.332 #

4/9/98

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3701.D\ECD1A.CH Vial: 20
Signal #2 : C:\HPCHEM\1\DATA_H\HA3701.D\ECD2B.CH
Acq On : 8 Apr 98 18:04 Operator:
Sample : 286629 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 11:06 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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-1248			194822	282671	372.889	789.225	
Average	Aroclor-1248					93.222	197.306	
						no	no	
5) L6	Aroclor-1254{1}	20.39	22.62	100491	54254	139.561	60.352	#
46) L6	Aroclor-1254{2}	20.94	23.62	78942	310172	85.107	367.834	#
47) L6	Aroclor-1254{3}	23.74	26.08	132864	224069	126.774	213.252	#
8) L6	Aroclor-1254{4}	26.86	28.07	86802	135972	119.515	255.616	#
9) L6	Aroclor-1254{5}	27.58	29.94	194676	282286	164.059	282.875	#
Sum	Aroclor-1254			593775	1006754	635.017	1179.929	
verage	Aroclor-1254					127.003	235.986	
						no	no	
50) L7	Aroclor-1260{1}	24.67	26.91	407366	108456	380.162m	125.717	#
51) L7	Aroclor-1260{2}	25.39	28.07	205821	135972	172.849	131.240	
2) L7	Aroclor-1260{3}	29.71	31.78	62729	89743	81.187	136.458	#
53) L7	Aroclor-1260{4}	30.59f	33.24	167548	229447	111.785m	172.076	#
54) L7	Aroclor-1260{5}	32.90	35.10	106912	26063	90.912	22.408	#
Sum	Aroclor-1260			950376	589681	836.894	587.899	
verage	Aroclor-1260					167.379	117.580	
						no	no	
Sum	Toxaphene			0	0	N.D.	N.D.	
verage	Toxaphene					0.000	0.000	

00 43

4/9/98

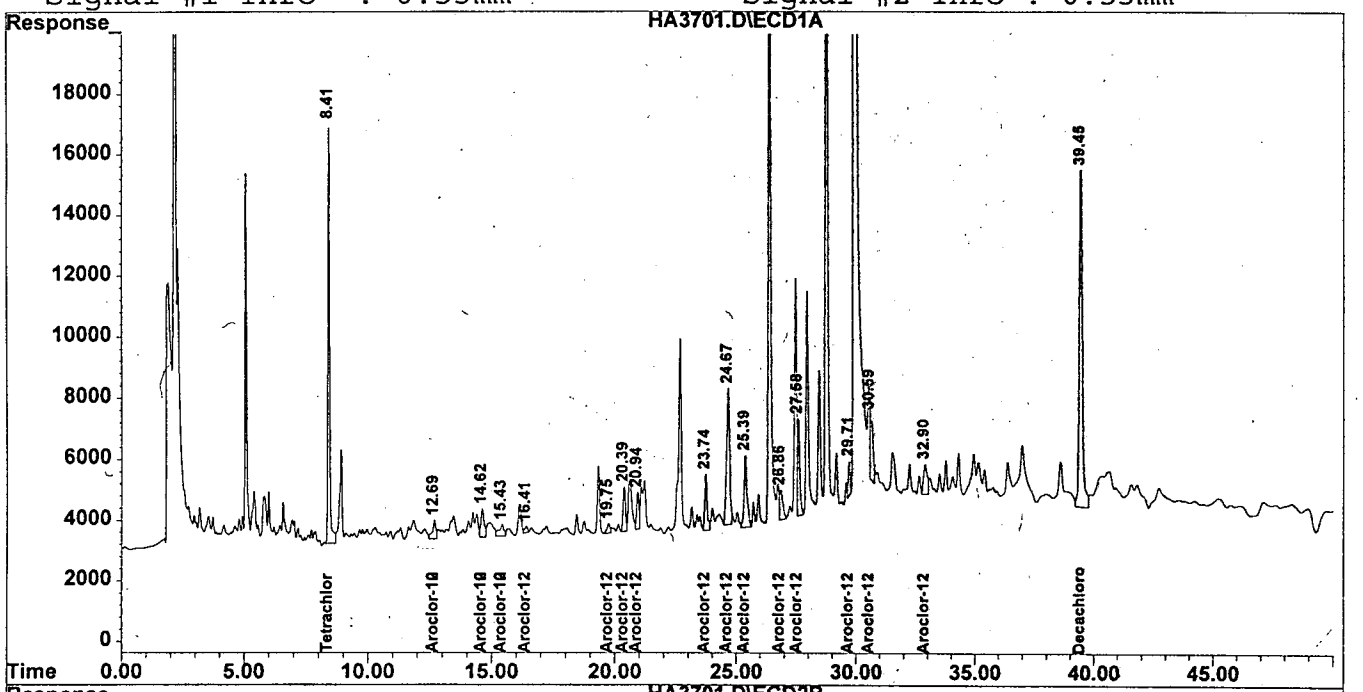
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

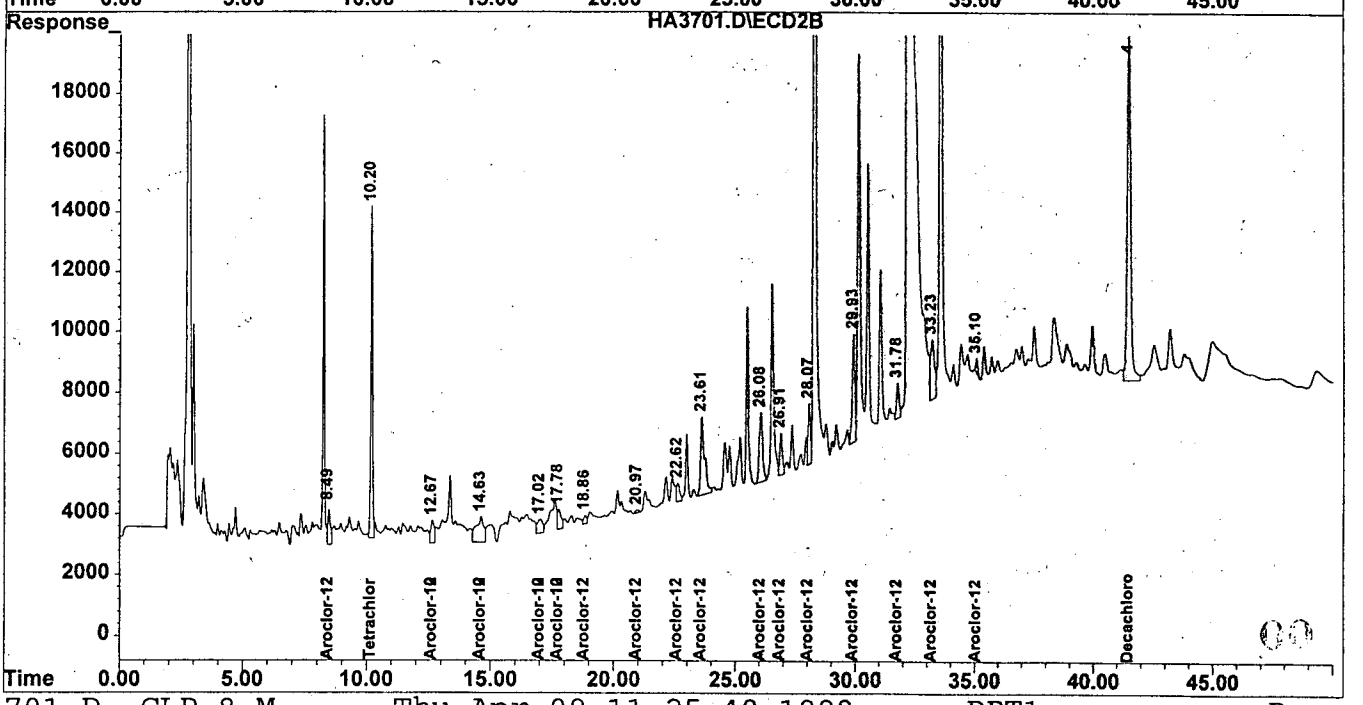
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3701.D\ECD1A.CH Vial: 20
Signal #2 : C:\HPCHEM\1\DATA_H\HA3701.D\ECD2B.CH
Acq On : 8 Apr 98 18:04 Operator:
Sample : 286629 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 11:06 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

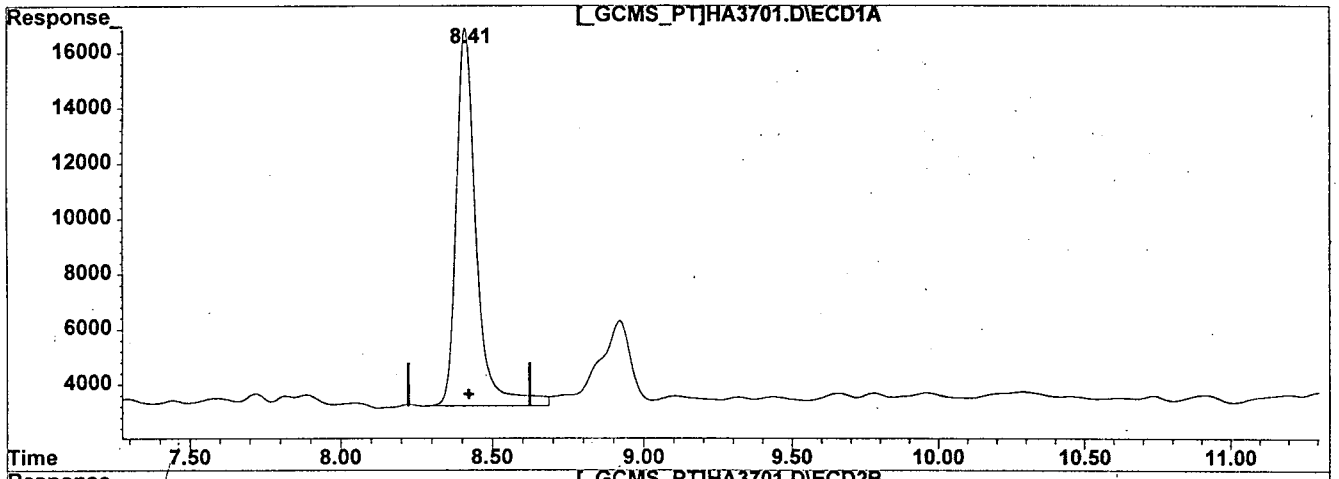


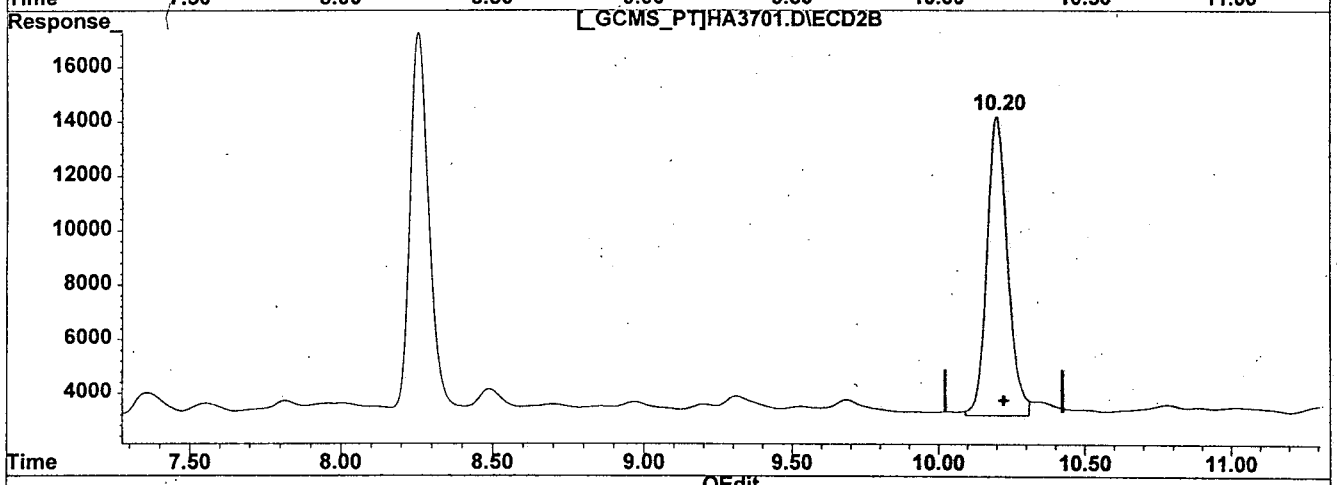


Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3701.D\ECD1A.CH Vial: 20
Signal #2 : C:\HPCHEM\1\DATA_H\HA3701.D\ECD2B.CH
Acq On : 8 Apr 98 18:04 Operator:
Sample : 286629 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 11:06 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(1) Tetrachloro-m-xylene (SA)

8.41min 38.355ng/ml

response 625989

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

10.20min 43.025ng/ml m

response 540810

(+) = Expected Retention Time

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CD-10

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

Matrix: (soil/water) SOIL Lab Sample ID: 286630

Sample wt/vol: 30.1 (g/mL) G Lab File ID: HA3702

% Moisture: 25 decanted: (Y/N) N Date Received: 03/28/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/29/98

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/08/98

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
12674-11-2------	Aroclor-1016	44.	U
11104-28-2------	Aroclor-1221	44.	U
11141-16-5------	Aroclor-1232	44.	U
53469-21-9------	Aroclor-1242	44.	U
12672-29-6------	Aroclor-1248	44.	U
11097-69-1------	Aroclor-1254	44.	U
11096-82-5------	Aroclor-1260	44.	U

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3702.D\ECD1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA_H\HA3702.D\ECD2B.CH
Acq On : 8 Apr 98 18:58 Operator:
Sample : 286630 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:28 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.41	10.20	558421	542613	34.215	43.169 #
Spiked Amount 40.000 Range 60 - 150 Recovery =					85.54%	107.92%
22) SA Decachlorobiphen	39.45	41.49	866435	1081442	39.008m	40.727m
Spiked Amount 40.000 Range 60 - 150 Recovery =					97.52%	101.82%
Target Compounds						
23) L1 Aroclor-1016{1}	10.74	12.67	63573	72752	171.986	237.869 #
24) L1 Aroclor-1016{2}	12.69	14.64	64467	70585	87.428	100.965
25) L1 Aroclor-1016{3}	14.62	17.05	45343	18904	31.643	15.048 #
26) L1 Aroclor-1016{4}	0.00	17.80	0	10969	N.D.	21.558 #
Sum Aroclor-1016			173382	173209	291.057	375.440
Average Aroclor-1016					97.019	93.860
28) L2 Aroclor-1221{1}	7.18	0.00	8811	0	57.407	N.D. #
29) L2 Aroclor-1221{2}	10.47	12.39	12913	20082	79.339	172.763 #
30) L2 Aroclor-1221{3}	10.74	12.67	63573	72752	129.903	146.910
Sum Aroclor-1221			85297	92834	266.649	319.673
Average Aroclor-1221					88.883	159.836
31) L3 Aroclor-1232{1}	10.74	8.49	63573	15680	158.321	110.796 #
32) L3 Aroclor-1232{2}	12.69	12.67	64467	72752	173.519	205.937
33) L3 Aroclor-1232{3}	14.62	14.64	45343	70585	63.927	212.817 #
34) L3 Aroclor-1232{4}	0.00	17.05	0	18904	N.D.	30.696 #
Sum Aroclor-1232			173382	177920	395.767	560.246
Average Aroclor-1232					131.922	140.062
35) L4 Aroclor-1242{1}	10.74	12.67	63573	72752	253.431	341.846 #
36) L4 Aroclor-1242{2}	12.69	14.64	64467	70585	138.887	166.512
37) L4 Aroclor-1242{3}	14.62	17.05	45343	18904	44.461	25.072 #
38) L4 Aroclor-1242{4}	0.00	17.80	0	10969	N.D.	36.511 #
Sum Aroclor-1242			173382	173209	436.779	569.942
Average Aroclor-1242					145.593	142.485
40) L5 Aroclor-1248{1}	12.69	14.64	64467	70585	216.515	250.684
41) L5 Aroclor-1248{2}	14.62	17.05	45343	18904	48.622	22.521 #

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3702.D\ECD1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA_H\HA3702.D\ECD2B.CH
Acq On : 8 Apr 98 18:58 Operator:
Sample : 286630 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:28 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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}	0.00	20.96	0	11515	N.D.	23.266	#
Sum	Aroclor-1248			109810	101004	265.136	296.471	
Average	Aroclor-1248					132.568	98.824	
46) L6	Aroclor-1254{2}	20.94	23.59	23560	27660	25.400	32.802	#
47) L6	Aroclor-1254{3}	23.74	26.09	26396	52104	25.186	49.589	#
48) L6	Aroclor-1254{4}	26.87	28.08	24244	82102	33.380	154.344	#
49) L6	Aroclor-1254{5}	27.58	29.94	143928	96477	121.292	96.678	
Sum	Aroclor-1254			218127	258342	205.258	333.412	
Average	Aroclor-1254					51.315	83.353	
50) L7	Aroclor-1260{1}	24.71	26.92	19564	19393	18.258	22.479	
51) L7	Aroclor-1260{2}	25.39	28.08	57921	82102	48.642	79.244	#
52) L7	Aroclor-1260{3}	29.72	31.79	42425	22874	54.909	34.781	#
53) L7	Aroclor-1260{4}	0.00	33.24	0	31943	N.D.	23.956	#
54) L7	Aroclor-1260{5}	32.91	35.10	81307	12957	69.139	11.140	#
Sum	Aroclor-1260			201217	169269	190.947	171.600	
Average	Aroclor-1260					47.737	34.320	
Sum	Toxaphene			0	0	N.D.	N.D.	
Average	Toxaphene					0.000	0.000	

9/2/98

48

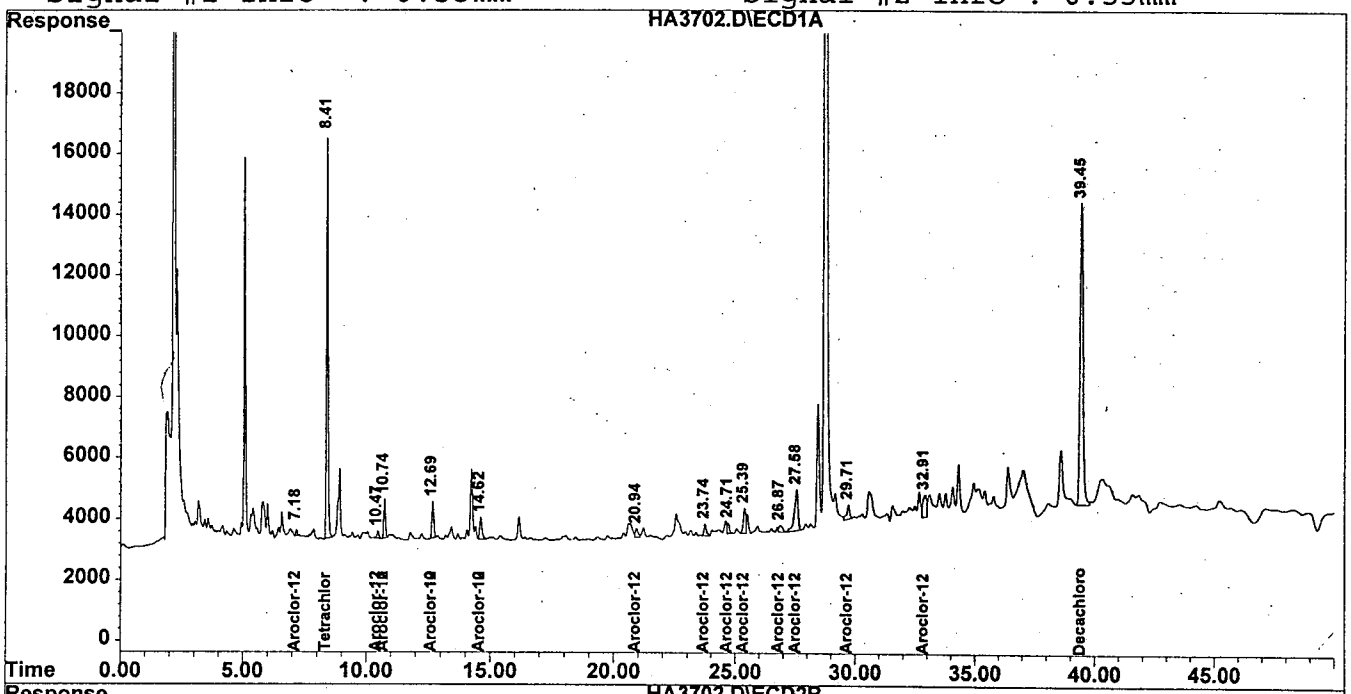
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

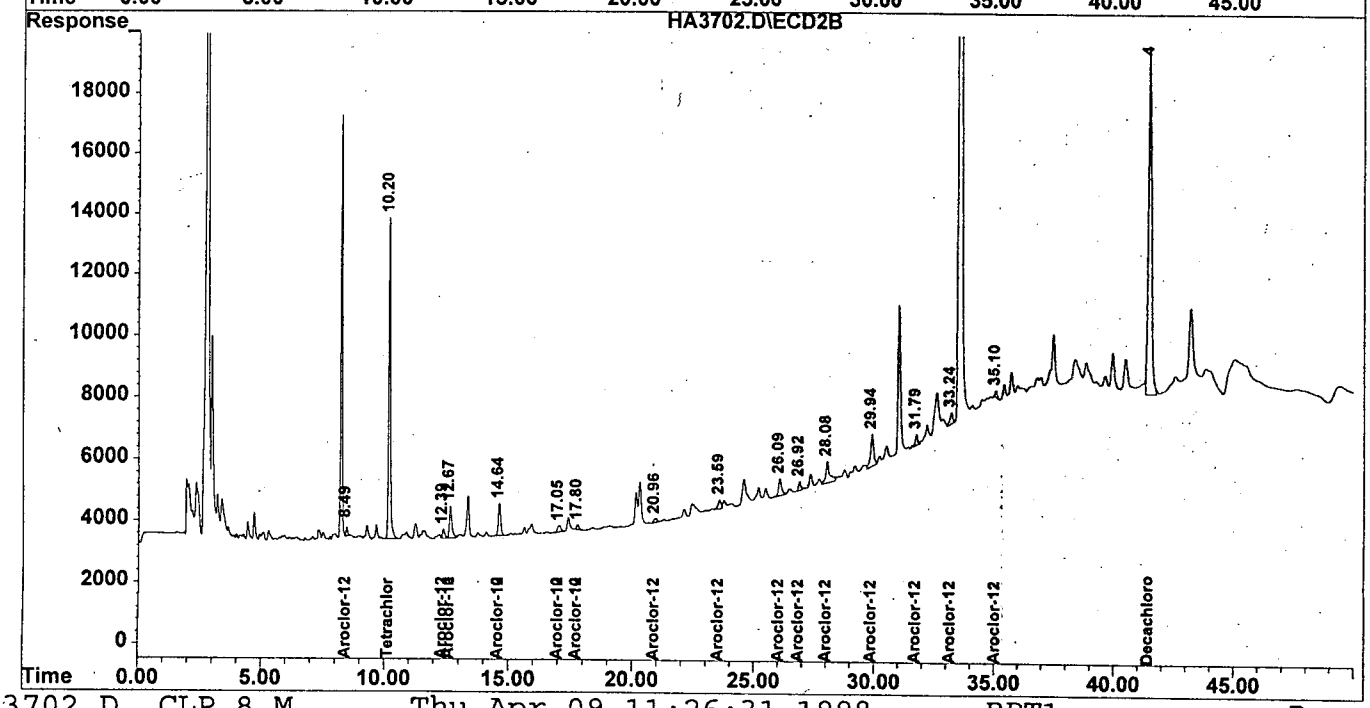
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3702.D\ECD1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA_H\HA3702.D\ECD2B.CH
Acq On : 8 Apr 98 18:58 Operator:
Sample : 286630 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:28 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

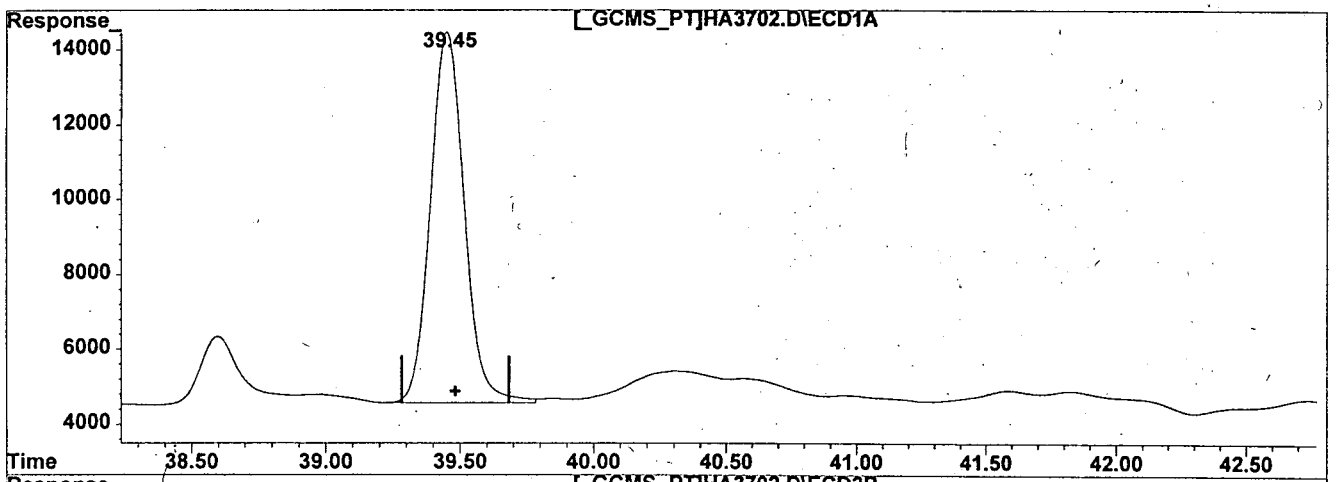


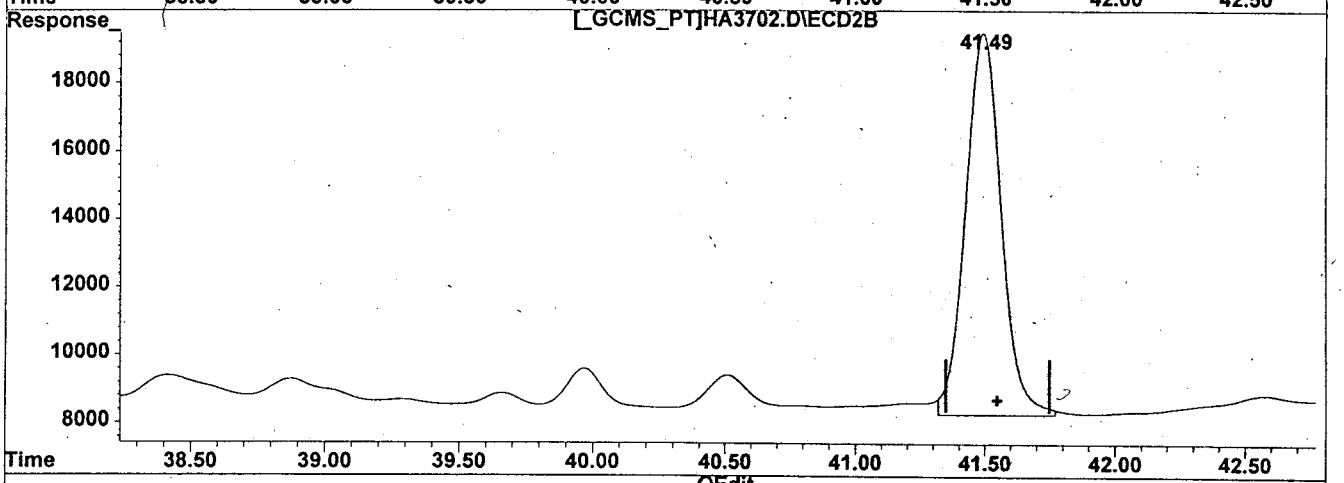


Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3702.D\ECD1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA_H\HA3702.D\ECD2B.CH
Acq On : 8 Apr 98 18:58 Operator:
Sample : 286630 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:28 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

39.45min 39.008ng/ml m

response 866435

(22) Decachlorobiphenyl #2 (SA)

41.49min 40.727ng/ml m

response 1081442

(+) = Expected Retention Time

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CD-11

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

Matrix: (soil/water) SOIL Lab Sample ID: 286631

Sample wt/vol: 30.1 (g/mL) G Lab File ID: HA3703

% Moisture: 22.1 decanted: (Y/N) N Date Received: 03/28/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/29/98

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/08/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2------	Aroclor-1016	43.	U
11104-28-2------	Aroclor-1221	43.	U
11141-16-5------	Aroclor-1232	43.	U
53469-21-9------	Aroclor-1242	43.	U
12672-29-6------	Aroclor-1248	43.	U
11097-69-1------	Aroclor-1254	43.	U
11096-82-5------	Aroclor-1260	43.	U

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3703.D\ECD1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA_H\HA3703.D\ECD2B.CH
Acq On : 8 Apr 98 19:52 Operator:
Sample : 286631 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:30 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.41	10.21	615631	601512	37.721	47.855	#
Spiked Amount 40.000 Range 60 - 150 Recovery =					94.30%	119.64%	
22) SA Decachlorobiphen	39.45	41.50	940607	1089816	42.348	41.042m	
Spiked Amount 40.000 Range 60 - 150 Recovery =					105.87%	102.61%	
Target Compounds							
23) L1 Aroclor-1016{1}	10.74	12.67	168016	201134	454.542	657.627	#
24) L1 Aroclor-1016{2}	12.69	14.64	338673	319563	459.300	457.107	
25) L1 Aroclor-1016{3}	14.62	17.05	339083	288049	236.633	229.292	
26) L1 Aroclor-1016{4}	15.40	17.81	93440	122343	220.966	240.435	
27) L1 Aroclor-1016{5}	18.07	0.00	47987	0	105.865	N.D.	#
Sum Aroclor-1016			987198	931089	1477.306	1584.462	
Average Aroclor-1016					295.461	396.115	
28) L2 Aroclor-1221{1}	7.18	11.64	22460	55754	146.342	342.555	#
29) L2 Aroclor-1221{2}	10.47	12.39	33487	43510	205.744	374.304	#
30) L2 Aroclor-1221{3}	10.74	12.67	168016	201134	343.319	406.156	
Sum Aroclor-1221			223963	300398	695.406	1123.014	
Average Aroclor-1221					231.802	374.338	
31) L3 Aroclor-1232{1}	10.74	8.49	168016	42154	418.426	297.869	#
32) L3 Aroclor-1232{2}	12.69	12.67	338673	201134	911.575	569.346	#
33) L3 Aroclor-1232{3}	14.62	14.64	339083	319563	478.059	963.500	#
34) L3 Aroclor-1232{4}	15.40	17.05	93440	288049	494.460	467.745	
Sum Aroclor-1232			939211	850900	2302.521	2298.459	
Average Aroclor-1232					575.630	574.615	
35) L4 Aroclor-1242{1}	10.74	12.67	168016	201134	669.792	945.089	#
36) L4 Aroclor-1242{2}	12.69	14.64	338673	319563	729.635	753.863	
37) L4 Aroclor-1242{3}	14.62	17.05	339083	288049	332.490	382.045	
38) L4 Aroclor-1242{4}	15.40	17.81	93440	122343	337.511	407.213	
39) L4 Aroclor-1242{5}	18.07	0.00	47987	0	153.656	N.D.	#
Sum Aroclor-1242			987198	931089	2223.084	2488.210	
Average Aroclor-1242					444.617	622.052	

Dan 4/21/98

52

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3703.D\ECD1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA_H\HA3703.D\ECD2B.CH
Acq On : 8 Apr 98 19:52 Operator:
Sample : 286631 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:30 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
0) L5	Aroclor-1248{1}	12.69	14.64	338673	319563	1137.450	1134.937	
41) L5	Aroclor-1248{2}	14.62	17.05	339083	288049	363.603	343.173	
42) L5	Aroclor-1248{3}	16.41	18.88	38568	33655	79.266	69.992	
3) L5	Aroclor-1248{4}	18.07	0.00	47987	0	77.648	N.D.	#
44) L5	Aroclor-1248{5}	0.00	20.94	0	27702	N.D.	55.971	#
Sum	Aroclor-1248			764310	668969	1657.966	1604.073	
verage	Aroclor-1248					414.492	401.018	
						NP	NP	
45) L6	Aroclor-1254{1}	20.40	0.00	13641	0	18.945	N.D.	#
6) L6	Aroclor-1254{2}	20.94	23.59	20551	32398	22.156	38.421	#
7) L6	Aroclor-1254{3}	23.74	26.10	16853	40675	16.081	38.711	#
48) L6	Aroclor-1254{4}	26.88	28.08	20378	65556	28.067	123.240	#
49) L6	Aroclor-1254{5}	27.59	29.94	90496	83834	76.263	84.009	
Sum	Aroclor-1254			161919	222463	161.502	284.381	
Average	Aroclor-1254					32.300	71.095	
						NP	NP	
0) L7	Aroclor-1260{1}	24.71	26.92	19245	19790	17.960	22.939	#
1) L7	Aroclor-1260{2}	25.39	28.08	65108	65556	54.678	63.274	
52) L7	Aroclor-1260{3}	29.72	31.79	19734	26492	25.540	40.282	#
3) L7	Aroclor-1260{4}	30.69	33.24	336264	30193	224.850	22.643	#
4) L7	Aroclor-1260{5}	32.91	35.10	71736	16217	61.000	13.943	#
Sum	Aroclor-1260			512087	158248	383.527	163.082	
Average	Aroclor-1260					76.705	32.616	
						NP	NP	
Sum	Toxaphene			0	0	N.D.	N.D.	
Average	Toxaphene					0.000	0.000	

7-24/0 158

00 53

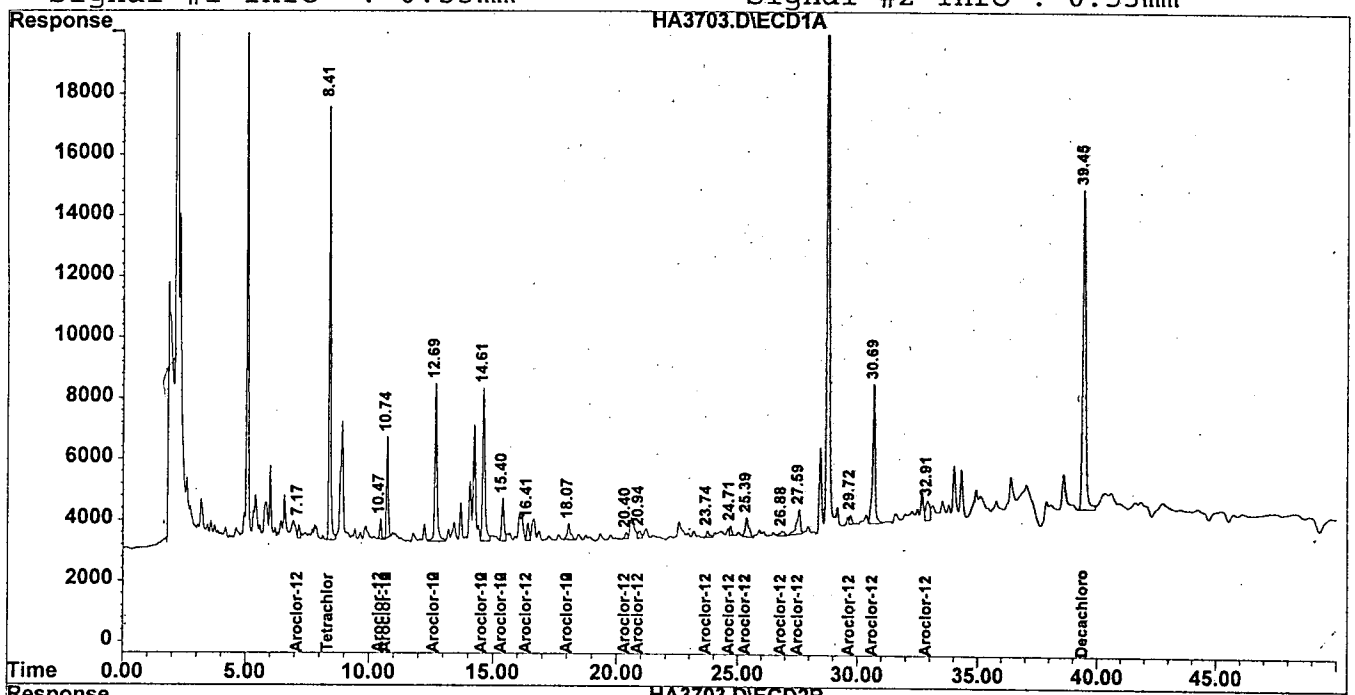
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

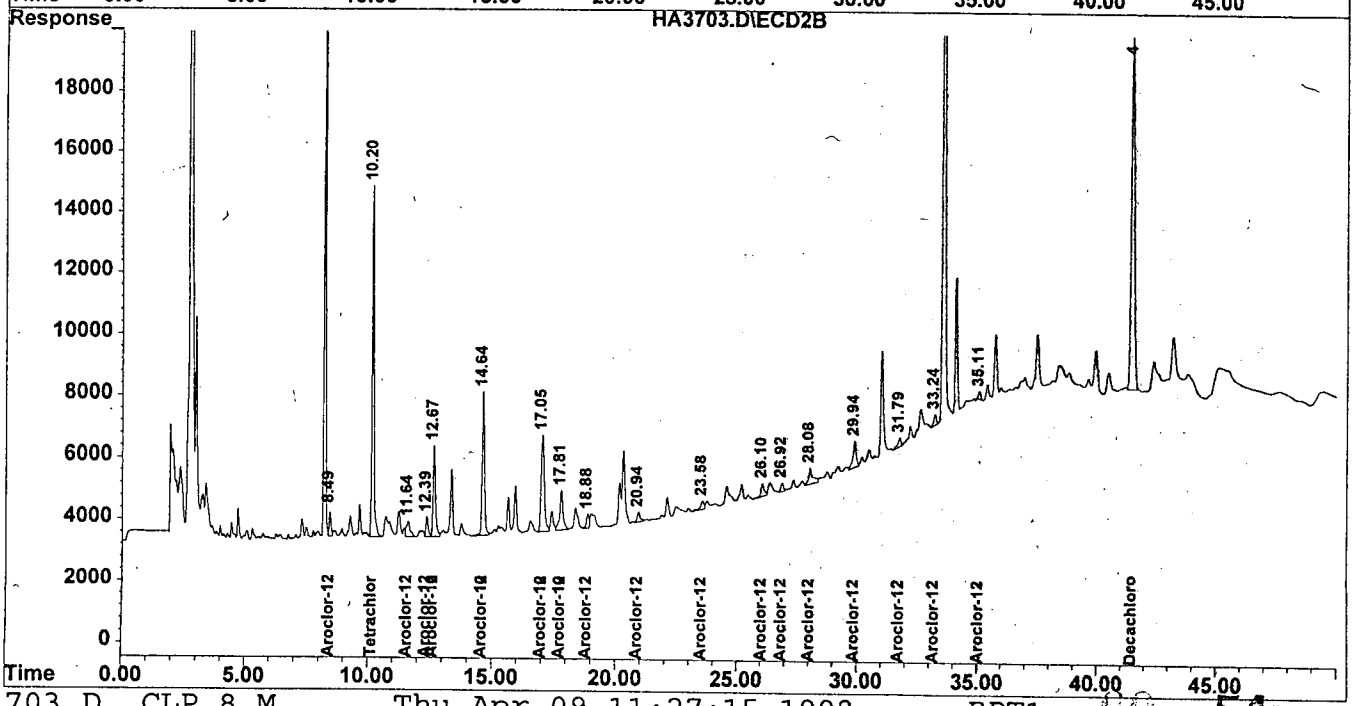
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3703.D\ECD1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA_H\HA3703.D\ECD2B.CH
Acq On : 8 Apr 98 19:52 Operator:
Sample : 286631 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:30 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

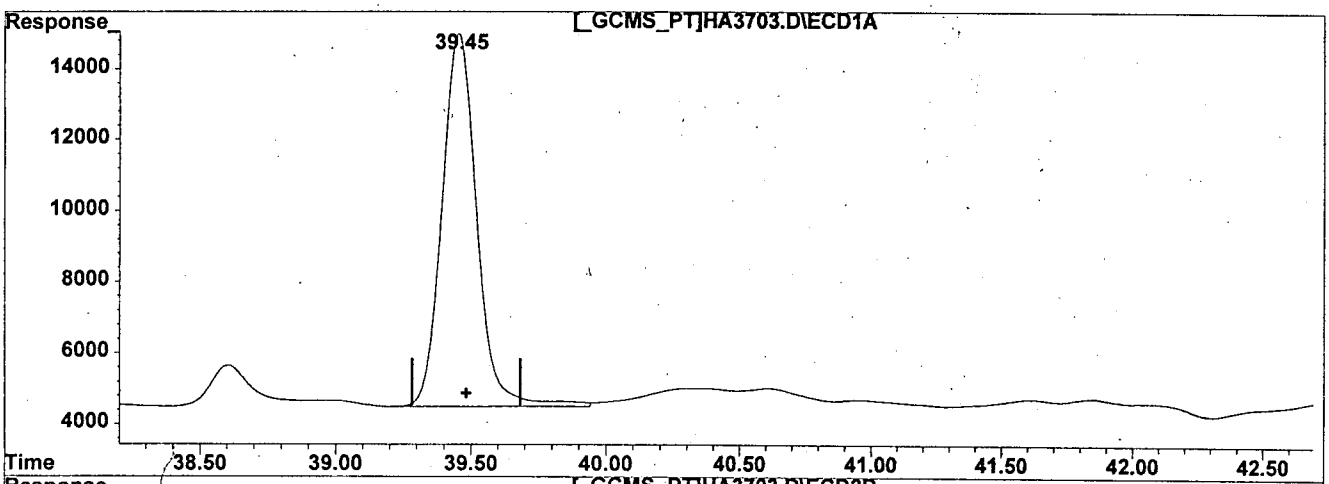


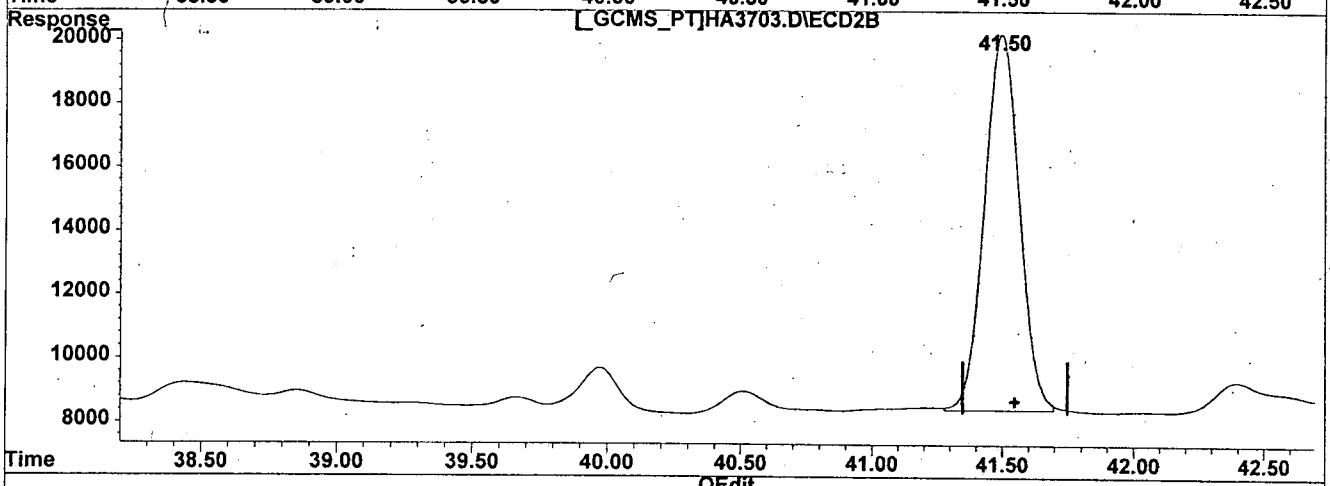


Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3703.D\ECD1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA_H\HA3703.D\ECD2B.CH
Acq On : 8 Apr 98 19:52 Operator:
Sample : 286631 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:30 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

39.45min 42.348ng/ml

response 940607

(22) Decachlorobiphenyl #2 (SA)

41.50min 41.042ng/ml m

response 1089816

(+) = Expected Retention Time

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CD-12

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

Matrix: (soil/water) SOIL Lab Sample ID: 286632

Sample wt/vol: 30.1 (g/mL) G Lab File ID: HA3704

% Moisture: 23. decanted: (Y/N) N Date Received: 03/28/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/29/98

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/08/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2------	Aroclor-1016	43.	U
11104-28-2------	Aroclor-1221	43.	U
11141-16-5------	Aroclor-1232	43.	U
53469-21-9------	Aroclor-1242	43.	U
12672-29-6------	Aroclor-1248	43.	U
11097-69-1------	Aroclor-1254	43.	U
11096-82-5------	Aroclor-1260	43.	U

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3704.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA_H\HA3704.D\ECD2B.CH
Acq On : 8 Apr 98 20:46 Operator:
Sample : 286632 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:31 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.42	10.21	568409	565401	34.827	44.982 #
Spiked Amount 40.000 Range 60 - 150 Recovery =					87.07%	112.46%
22) SA Decachlorobiphen	39.46	41.50	961702	1083731	43.297	40.813m
Spiked Amount 40.000 Range 60 - 150 Recovery =					108.24%	102.03%
Target Compounds						
23) L1 Aroclor-1016{1}	10.74	12.68	17775	11105	48.087	36.309
24) L1 Aroclor-1016{2}	12.69	14.64	35787	28659	48.534	40.995
25) L1 Aroclor-1016{3}	14.62	17.06	36308	55769	25.338	44.393 #
26) L1 Aroclor-1016{4}	0.00	17.81	0	13729	N.D.	26.980 #
Sum Aroclor-1016			89870	109262	121.959	148.677
Average Aroclor-1016					40.653	37.169
28) L2 Aroclor-1221{1}	7.18	0.00	27484	0	179.073	N.D. #
29) L2 Aroclor-1221{2}	0.00	12.40	0	11390	N.D.	97.982 #
30) L2 Aroclor-1221{3}	10.74	12.68	17775	11105	36.321	22.425 #
Sum Aroclor-1221			45259	22495	215.393	120.407
Average Aroclor-1221					107.697	60.203
31) L3 Aroclor-1232{1}	10.74	8.49	17775	51400	44.267	363.203 #
32) L3 Aroclor-1232{2}	12.69	12.68	35787	11105	96.325	31.435 #
33) L3 Aroclor-1232{3}	14.62	14.64	36308	28659	51.189	86.410 #
34) L3 Aroclor-1232{4}	0.00	17.06	0	55769	N.D.	90.559 #
Sum Aroclor-1232			89870	146934	191.781	571.607
Average Aroclor-1232					63.927	142.902
35) L4 Aroclor-1242{1}	10.74	12.68	17775	11105	70.859	52.180 #
36) L4 Aroclor-1242{2}	12.69	14.64	35787	28659	77.100	67.609
37) L4 Aroclor-1242{3}	14.62	17.06	36308	55769	35.602	73.967 #
38) L4 Aroclor-1242{4}	0.00	17.81	0	13729	N.D.	45.695 #
Sum Aroclor-1242			89870	109262	183.561	239.451
Average Aroclor-1242					61.187	59.863
40) L5 Aroclor-1248{1}	12.69	14.64	35787	28659	120.193	101.785
41) L5 Aroclor-1248{2}	14.62	17.06	36308	55769	38.934	66.441 #

4/9/98

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3704.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA_H\HA3704.D\ECD2B.CH
Acq On : 8 Apr 98 20:46 Operator:
Sample : 286632 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:31 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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}	0.00	20.97	0	22475	N.D.	45.470	#
Sum	Aroclor-1248			72095	106903	159.127	213.636	
Average	Aroclor-1248					79.563	71.212	
						np	np	
46) L6	Aroclor-1254{2}	20.95	23.59	20318	29224	21.905	34.657	#
47) L6	Aroclor-1254{3}	23.75	26.10	20241	51544	19.313	49.056	#
48) L6	Aroclor-1254{4}	26.87	28.08	48711	121656	67.068	228.702	#
49) L6	Aroclor-1254{5}	27.59	29.94	98545	145396	83.047	145.699	#
Sum	Aroclor-1254			187815	347820	191.333	458.114	
Average	Aroclor-1254					47.833	114.529	
						np	np	
50) L7	Aroclor-1260{1}	0.00	26.92	0	28872	N.D.	33.468	#
51) L7	Aroclor-1260{2}	25.39	28.08	85905	121656	72.143	117.422	#
52) L7	Aroclor-1260{3}	29.72	31.79	26113	15045	33.797	22.876	#
53) L7	Aroclor-1260{4}	30.68	33.24	152885	32197	102.002	24.147	#
54) L7	Aroclor-1260{5}	32.91	35.11	63761	19052	54.219	16.381	#
Sum	Aroclor-1260			328664	216823	262.161	214.293	
Average	Aroclor-1260					65.540	42.859	
						np	np	
Sum	Toxaphene			0	0	N.D.	N.D.	
Average	Toxaphene					0.000	0.000	

Dan 4/8/98

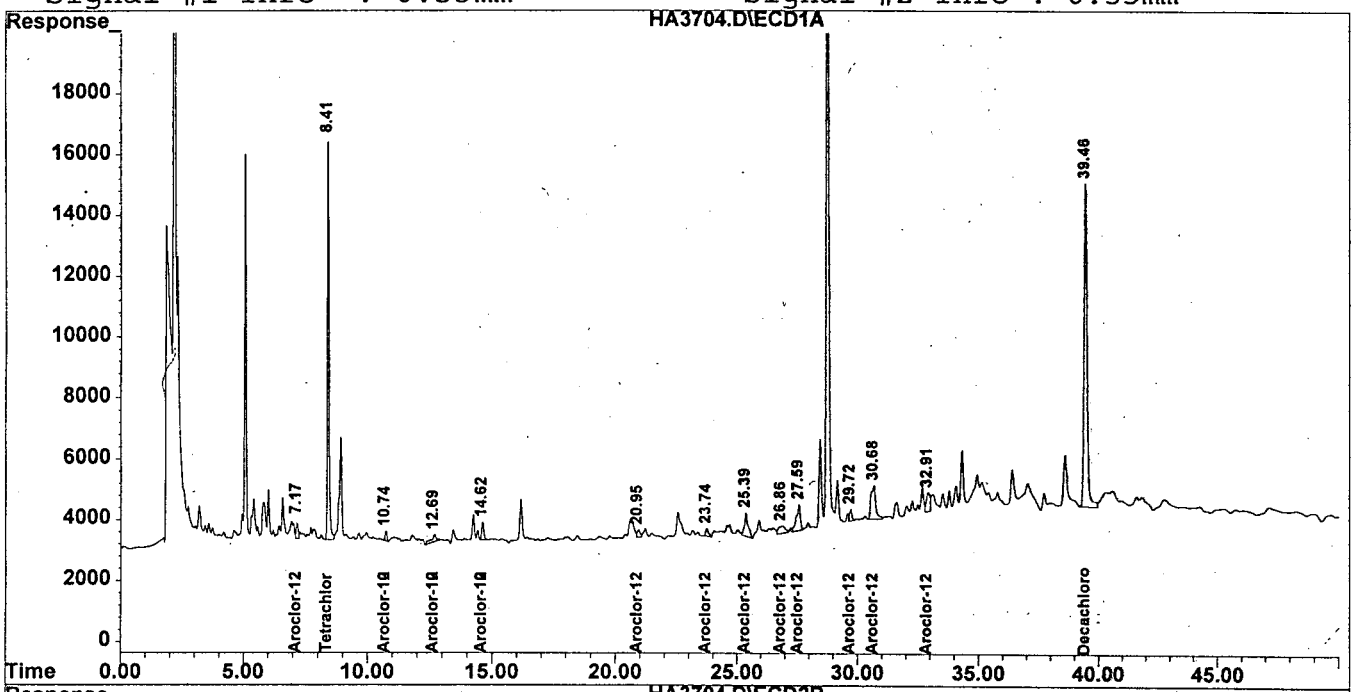
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

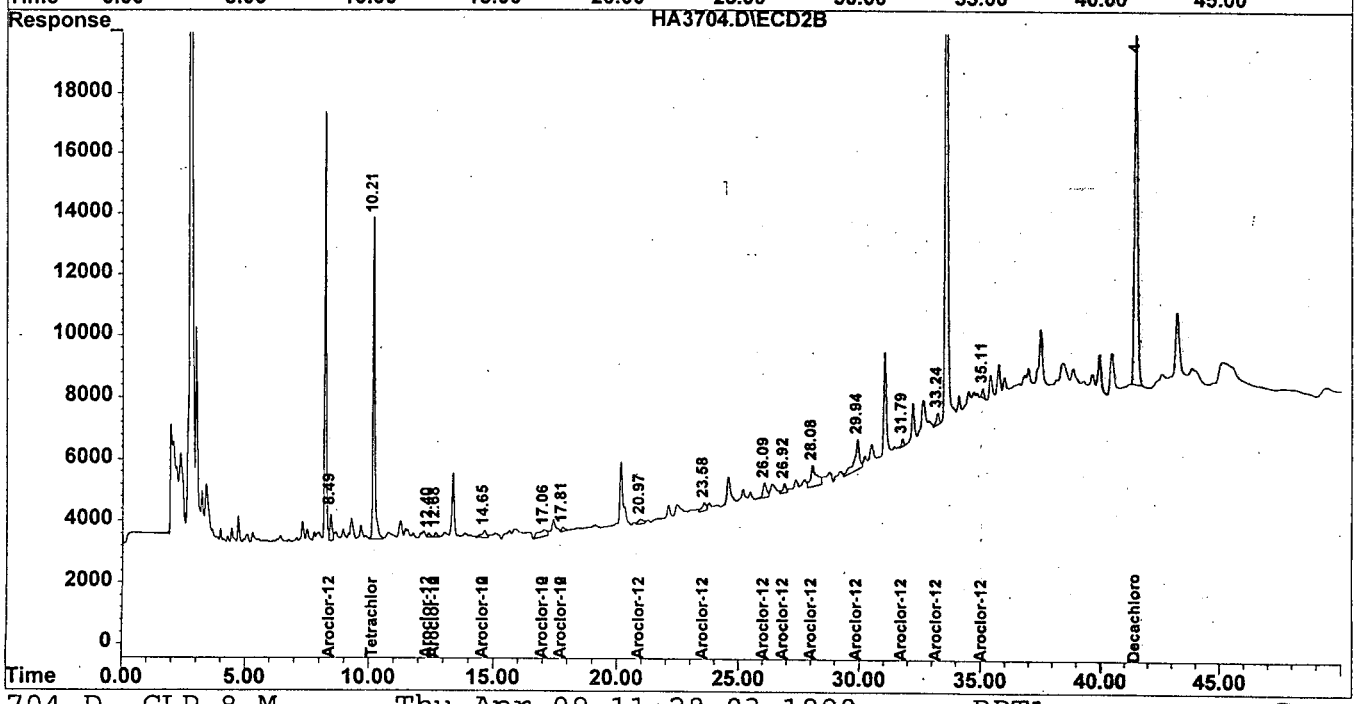
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3704.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA_H\HA3704.D\ECD2B.CH
Acq On : 8 Apr 98 20:46 Operator:
Sample : 286632 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:31 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

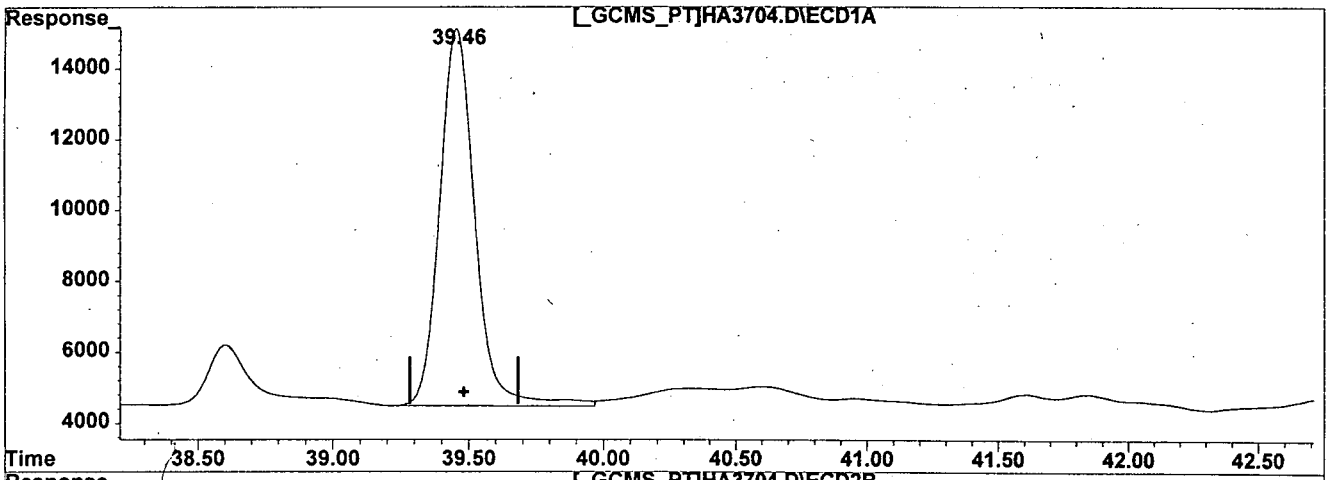


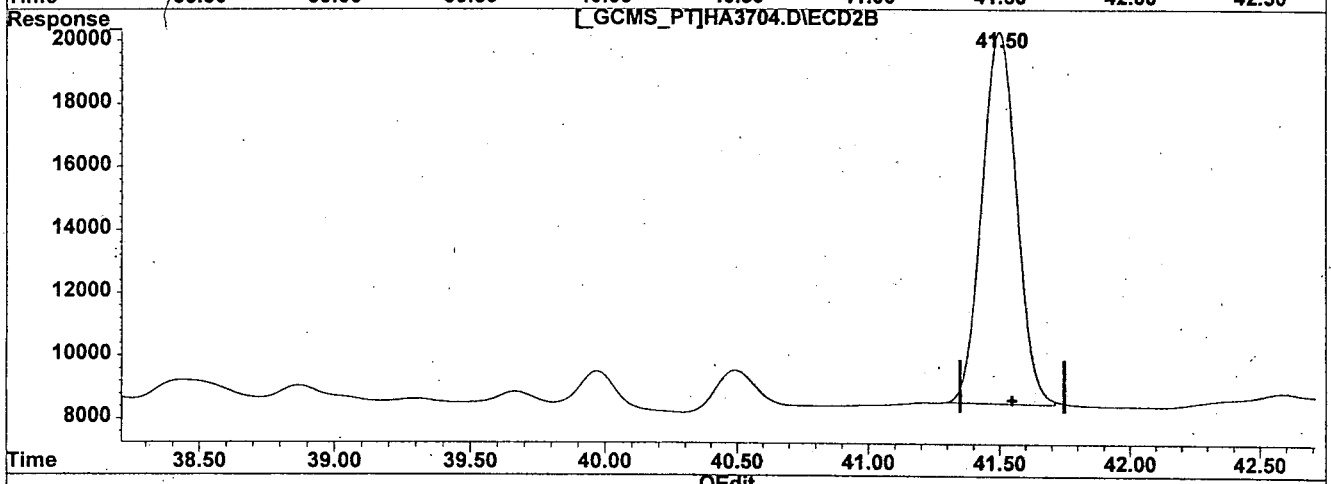


Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3704.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA_H\HA3704.D\ECD2B.CH
Acq On : 8 Apr 98 20:46 Operator:
Sample : 286632 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:31 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

39.46min 43.297ng/ml

response 961702

(22) Decachlorobiphenyl #2 (SA)

41.50min 40.813ng/ml m

response 1083731

(+) = Expected Retention Time

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CD-13

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

Matrix: (soil/water) SOIL Lab Sample ID: 286633

Sample wt/vol: 30.1 (g/mL) G Lab File ID: HA3710

% Moisture: 23./ decanted: (Y/N) N Date Received: 03/28/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/29/98

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/09/98

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
12674-11-2------	Aroclor-1016	43.	U
11104-28-2------	Aroclor-1221	43.	U
11141-16-5------	Aroclor-1232	43.	U
53469-21-9------	Aroclor-1242	43.	U
12672-29-6------	Aroclor-1248	43.	U
11097-69-1------	Aroclor-1254	43.	U
11096-82-5------	Aroclor-1260	43.	U

FORM I PEST

OLM03.0

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3710.D\ECD1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA_H\HA3710.D\ECD2B.CH
Acq On : 9 Apr 98 7:03 Operator:
Sample : 286633 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:41 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.42	10.22	613304	610694	37.578	48.585 #
Spiked Amount 40.000 Range 60 - 150 Recovery =					93.95%	121.46%
2) SA Decachlorobiphen	39.47	41.51	1065048	1245509	47.950	46.905m
Spiked Amount 40.000 Range 60 - 150 Recovery =					119.88%	117.26%
Target Compounds						
23) L1 Aroclor-1016{1}	10.75	12.70	16550	15507	44.772	50.700
24) L1 Aroclor-1016{2}	12.70	14.66	29151	16969	39.534	24.273 #
25) L1 Aroclor-1016{3}	14.63	17.08	40623	62977	28.349	50.131 #
26) L1 Aroclor-1016{4}	0.00	17.82	0	43095	N.D.	84.692 #
Sum Aroclor-1016			86323	138548	112.655	209.796
Average Aroclor-1016					37.552	52.449
28) L2 Aroclor-1221{1}	7.18	0.00	21350	0	139.109	N.D. #
30) L2 Aroclor-1221{3}	10.75	12.70	16550	15507	33.817	31.313
Sum Aroclor-1221			37900	15507	172.926	31.313
Average Aroclor-1221					86.463	31.313
31) L3 Aroclor-1232{1}	10.75	8.50	16550	76849	41.215	543.029 #
32) L3 Aroclor-1232{2}	12.70	12.70	29151	15507	78.462	43.894 #
33) L3 Aroclor-1232{3}	14.63	14.66	40623	16969	57.273	51.164
34) L3 Aroclor-1232{4}	0.00	17.08	0	62977	N.D.	102.264 #
Sum Aroclor-1232			86323	172303	176.950	740.352
Average Aroclor-1232					58.983	185.088
35) L4 Aroclor-1242{1}	10.75	12.70	16550	15507	65.974	72.862
36) L4 Aroclor-1242{2}	12.70	14.66	29151	16969	62.802	40.032 #
37) L4 Aroclor-1242{3}	14.63	17.08	40623	62977	39.833	83.527 #
38) L4 Aroclor-1242{4}	0.00	17.82	0	43095	N.D.	143.438 #
Sum Aroclor-1242			86323	138548	168.610	339.860
Average Aroclor-1242					56.203	84.965
40) L5 Aroclor-1248{1}	12.70	14.66	29151	16969	97.904	60.268 #
41) L5 Aroclor-1248{2}	14.63	17.08	40623	62977	43.561	75.029 #
42) L5 Aroclor-1248{3}	0.00	18.89	0	27220	N.D.	56.609 #

Date 4/17/98

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3710.D\ECD1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA_H\HA3710.D\ECD2B.CH
Acq On : 9 Apr 98 7:03 Operator:
Sample : 286633 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:41 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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])	L5 Aroclor-1248{5}	0.00	20.96	0	33924	N.D.	68.542	#
	Sum Aroclor-1248			69774	141091	141.465	260.447	
Average	Aroclor-1248					70.732	65.112	
4[illegible])	L6 Aroclor-1254{2}	20.96	23.60	20488	41922	22.088	49.715	#
47)	L6 Aroclor-1254{3}	23.76	26.12	24712	62161	23.580	59.160	#
4[illegible])	L6 Aroclor-1254{4}	26.88	28.09	26575	85009	36.591	159.809	#
4[illegible])	L6 Aroclor-1254{5}	27.60	29.95	129719	145195	109.318	145.498	#
	Sum Aroclor-1254			201494	334286	191.576	414.181	
Average	Aroclor-1254					47.894	103.545	
5[illegible])	L7 Aroclor-1260{1}	24.72	26.93	23944	37357	22.345	43.302	#
51)	L7 Aroclor-1260{2}	25.41	28.09	107214	85009	90.039	82.050	
5[illegible])	L7 Aroclor-1260{3}	29.73	31.80	36797	36658	47.625	55.740	
5[illegible])	L7 Aroclor-1260{4}	30.69	33.25	149909	47134	100.017	35.349	#
54)	L7 Aroclor-1260{5}	32.92	35.12	68041	33414	57.858	28.728	#
	Sum Aroclor-1260			385906	239571	317.884	245.169	
[illegible]erage	Aroclor-1260					63.577	49.034	
	Sum Toxaphene			0	0	N.D.	N.D.	
[illegible]erage	Toxaphene					0.000	0.000	

4/21/98

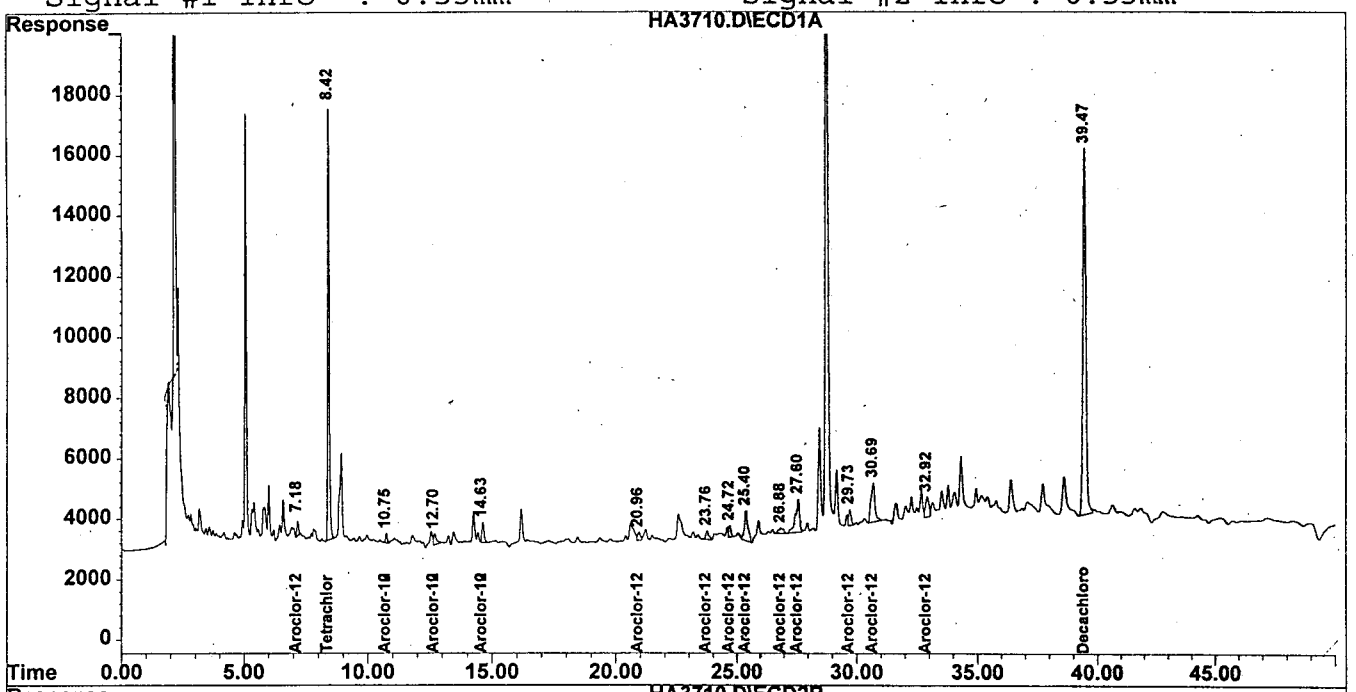
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

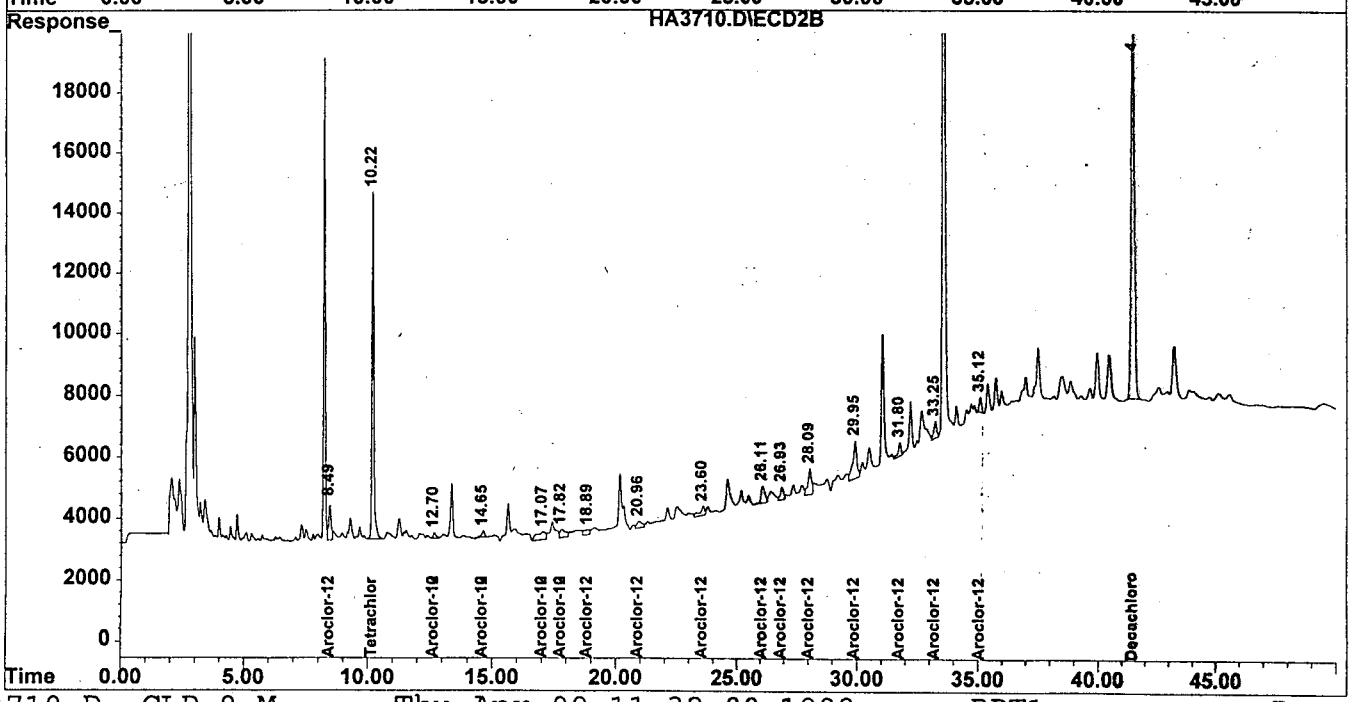
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3710.D\ECD1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA_H\HA3710.D\ECD2B.CH
Acq On : 9 Apr 98 7:03 Operator:
Sample : 286633 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:41 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

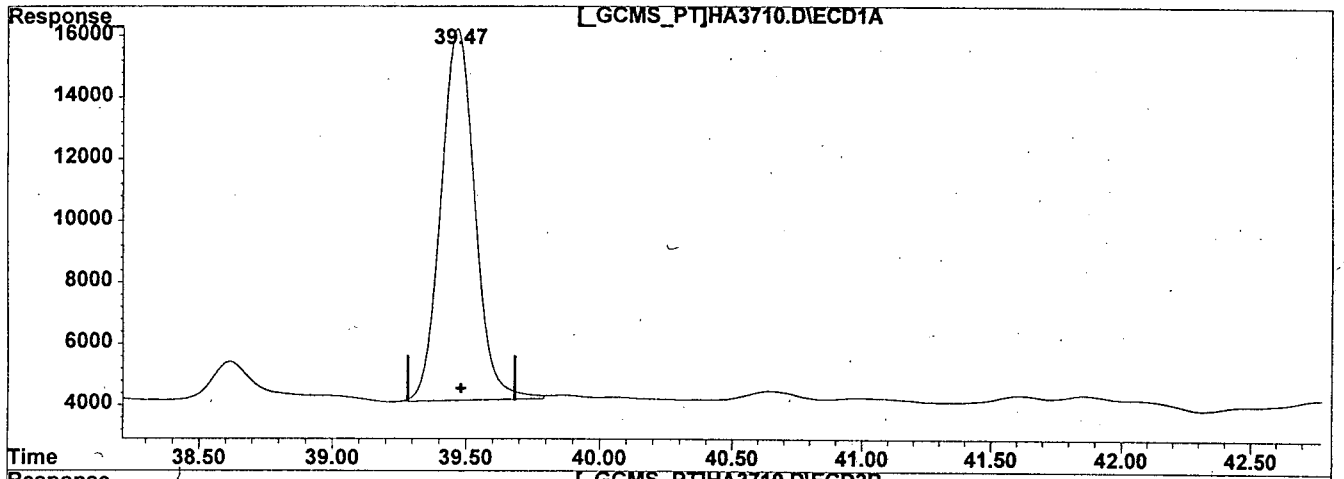


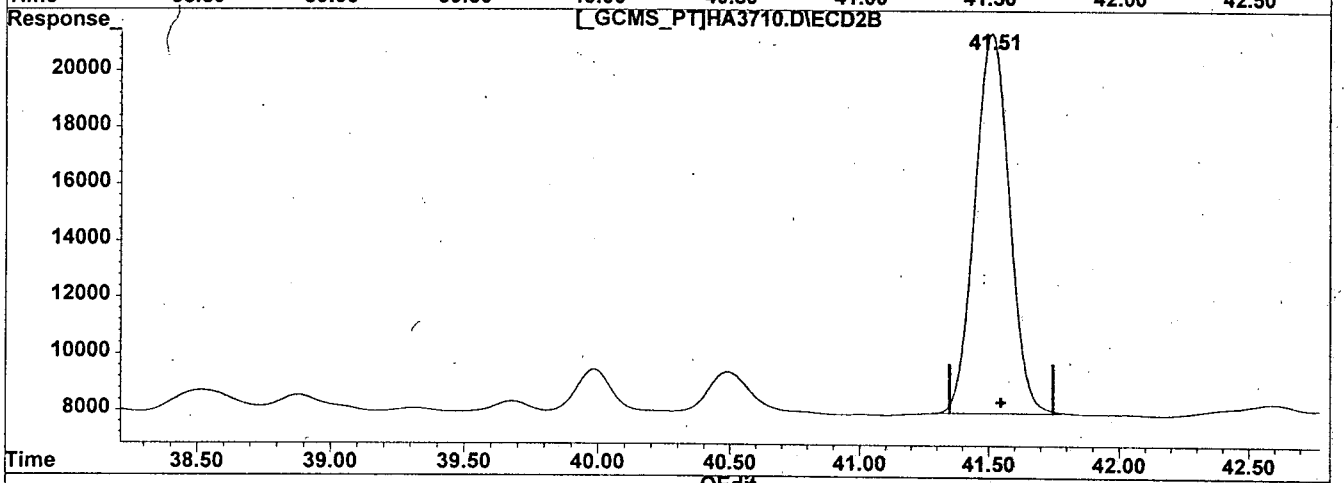


Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3710.D\ECD1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA_H\HA3710.D\ECD2B.CH
Acq On : 9 Apr 98 7:03 Operator:
Sample : 286633 Inst : GC_5890_8
Misc : QPC7615 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 10:41 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(22) Decachlorobiphenyl (SA)

39.47min 47.950ng/ml

response 1065048

(22) Decachlorobiphenyl #2 (SA)

41.51min 46.905ng/ml m

response 1245509

(+) = Expected Retention Time

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

Instrument ID: 5890 8 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: RTX-50 ID: .53 (mm) Date(s) Analyzed: 03/25/98 03/25/98

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	11.08	11.08	11.08	11.08	11.03	11.13
beta-BHC	14.24	14.23	14.23	14.23	14.18	14.28
delta-BHC	15.55	15.54	15.54	15.54	15.49	15.59
gamma-BHC (Lindane)	13.02	13.01	13.01	13.01	12.96	13.06
Heptachlor	14.38	14.38	14.38	14.38	14.33	14.43
Aldrin	16.05	16.04	16.04	16.04	15.99	16.09
Heptachlor epoxide	19.37	19.37	19.36	19.37	19.30	19.44
Endosulfan I	21.35	21.35	21.35	21.35	21.28	21.42
Dieldrin	23.21	23.20	23.20	23.20	23.13	23.27
4,4'-DDE	22.69	22.69	22.68	22.69	22.62	22.76
Endrin	25.07	25.06	25.06	25.06	24.99	25.13
Endosulfan II	26.52	26.52	26.51	26.52	26.45	26.59
4,4'-DDD	25.99	25.97	25.97	25.98	25.91	26.05
Endosulfan Sulfate	29.09	29.09	29.08	29.09	29.02	29.16
4,4'-DDT	27.49	27.48	27.48	27.49	27.42	27.56
Methoxychlor	32.32	32.31	32.30	32.31	32.24	32.38
Endrin ketone	32.69	32.68	32.67	32.68	32.61	32.75
Endrin aldehyde	28.22	28.21	28.20	28.21	28.14	28.28
alpha-Chlordane	21.24	21.23	21.23	21.23	21.16	21.30
gamma-Chlordane	20.41	20.40	20.40	20.40	20.33	20.47
Tetrachloro-m-xylene	8.43	8.42	8.42	8.42	8.37	8.47
Decachlorobiphenyl	39.49	39.48	39.48	39.48	39.38	39.58

* 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.: CD-01

Instrument ID: 5890 8 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: RTX-1701 ID: .53 (mm) Date(s) Analyzed: 03/25/98 03/25/98

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	14.38	14.37	14.37	14.38	14.33	14.43
beta-BHC	20.60	20.59	20.59	20.59	20.54	20.64
delta-BHC	21.95	21.94	21.93	21.94	21.89	21.99
gamma-BHC (Lindane)	16.49	16.48	16.48	16.48	16.43	16.53
Heptachlor	17.67	17.66	17.66	17.66	17.61	17.71
Aldrin	19.19	19.18	19.18	19.19	19.14	19.24
Heptachlor epoxide	23.03	23.02	23.02	23.02	22.95	23.09
Endosulfan I	24.57	24.56	24.56	24.56	24.49	24.63
Dieldrin	26.47	26.46	26.46	26.46	26.39	26.53
4,4'-DDE	25.56	25.55	25.54	25.55	25.48	25.62
Endrin	27.62	27.61	27.61	27.61	27.54	27.68
Endosulfan II	30.12	30.11	30.10	30.11	30.04	30.18
4,4'-DDD	29.72	29.71	29.71	29.71	29.64	29.78
Endosulfan Sulfate	33.97	33.96	33.96	33.96	33.89	34.03
4,4'-DDT	30.58	30.57	30.58	30.58	30.51	30.65
Methoxychlor	33.76	33.75	33.75	33.75	33.68	33.82
Endrin ketone	36.04	36.03	36.02	36.03	35.96	36.10
Endrin aldehyde	32.31	32.31	32.30	32.31	32.24	32.38
alpha-Chlordane	25.16	25.15	25.14	25.15	25.08	25.22
gamma-Chlordane	24.82	24.81	24.81	24.81	24.74	24.88
Tetrachloro-m-xylene	10.23	10.22	10.22	10.22	10.17	10.27
Decachlorobiphenyl	41.56	41.55	41.54	41.55	41.45	41.65

* 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.: CD-01

Instrument ID: 5890 8 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: RTX-50 ID: .53 (mm) Date(s) Analyzed: 03/25/98 03/25/98

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	11790200	12894900	18428636	14371246	24.8
beta-BHC	10853200	7903300	8261662	9006054	17.9
delta-BHC	7599200	8109100	11002812	8903704	20.6
gamma-BHC (Lindane)	12791200	13297500	17422074	14503592	17.5
Heptachlor	11983800	12003650	12960300	12315916	4.5
Aldrin	10338000	11206850	13248862	11597904	12.9
Heptachlor epoxide	13993200	13641550	14554586	14063112	3.3
Endosulfan I	14577600	15509700	17033798	15707032	7.9
Dieldrin	12264000	13905550	16230936	14133496	14.1
4,4'-DDE	10624300	10961350	12711700	11432450	9.8
Endrin	12034800	13445900	15662944	13714548	13.3
Endosulfan II	11083700	11460124	12446106	11663310	6.0
4,4'-DDD	7299500	8474250	10636488	8803412	19.2
Endosulfan Sulfate	8673200	9223724	10169018	9355314	8.1
4,4'-DDT	8195200	9466300	11921380	9860960	19.2
Methoxychlor	4945240	5755115	5848010	5516121	9.0
Endrin ketone	10124300	10886800	12861024	11290708	12.5
Endrin aldehyde	10633000	10732350	10667412	10677588	.5
alpha-Chlordane	15077600	14225950	15385036	14896196	4.0
gamma-Chlordane	14955200	14367850	15512812	14945286	3.8
Tetrachloro-m-xylene	12173600	16320850	14992662	14495704	14.6
Decachlorobiphenyl	21501798	22211524	19237154	20983492	7.4

* 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.: CD-01

Instrument ID: 5890 8 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: RTX-1701 ID: .53 (mm) Date(s) Analyzed: 03/25/98 03/25/98

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	11107600	11491050	17384462	13327704	26.4
beta-BHC	5543800	6389700	7589075	6507525	15.8
delta-BHC	6597400	7153000	10009174	7919858	23.1
gamma-BHC (Lindane)	11094400	11871650	16807074	13257708	23.4
Heptachlor	19831198	20758098	23389624	21326306	8.7
Aldrin	10826600	11110700	13868224	11935174	14.1
Heptachlor epoxide	13759400	13665100	15377562	14267354	6.7
Endosulfan I	14300800	15805550	17956374	16020908	11.5
Dieldrin	12245800	14124650	17768536	14712996	19.1
4,4'-DDE	9777100	10351700	13032930	11053910	15.7
Endrin	11558300	13218250	16667380	13814644	18.9
Endosulfan II	11426500	11564750	13218950	12070066	8.3
4,4'-DDD	8248400	8871374	11265612	9461796	16.8
Endosulfan Sulfate	9302800	8993500	10193512	9496604	6.6
4,4'-DDT	8921200	9672824	12727888	10440638	19.3
Methoxychlor	6348880	7789890	8135545	7424771	12.8
Endrin ketone	10156100	11000474	13012938	11389838	12.9
Endrin aldehyde	9450200	10772074	10868094	10363456	7.6
alpha-Chlordane	13680400	14069000	15865786	14538396	8.0
gamma-Chlordane	15002800	14705550	16244250	15317532	5.3
Tetrachloro-m-xylene	11200000	12569550	13899338	12556296	10.7
Decachlorobiphenyl	24998798	26553648	24989992	25514146	3.5

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.: CD-01

Instrument ID: 5890 8 Date(s) Analyzed: 03/25/98 03/25/98

GC Column: RTX-50 ID: .53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	.50	*1	26.58	26.51	26.65	263675
		*2	28.73	28.66	28.80	240537
		*3	31.21	31.14	31.28	185319
		*4	32.78	32.71	32.85	189059
		5				
Aroclor-1016	.10	*1	10.76	10.69	10.83	369639
		*2	12.71	12.64	12.78	737369
		*3	14.64	14.57	14.71	1432949
		*4	15.42	15.35	15.49	422869
		5	18.09	18.02	18.16	453279
Aroclor-1221	.20	*1	7.25	7.18	7.32	153474
		*2	10.49	10.42	10.56	162759
		*3	10.76	10.69	10.83	489384
		4				
		5				
Aroclor-1232	.10	*1	10.76	10.69	10.83	401539
		*2	12.71	12.64	12.78	371519
		*3	14.64	14.57	14.71	709289
		*4	15.42	15.35	15.49	188969
		5				
Aroclor-1242	.10	*1	10.76	10.69	10.83	250849
		*2	12.71	12.64	12.78	464169
		*3	14.64	14.57	14.71	1019829
		*4	15.42	15.35	15.49	276849
		5	18.09	18.02	18.16	312299
Aroclor-1248	.10	*1	12.71	12.64	12.78	297749
		*2	14.64	14.57	14.71	932559
		*3	16.43	16.36	16.50	486559
		*4	18.09	18.02	18.16	617999
		5	19.78	19.71	19.85	785329
Aroclor-1254	.10	*1	20.45	20.38	20.52	720049
		*2	20.97	20.90	21.04	927559
		*3	23.77	23.70	23.84	1048039
		*4	26.89	26.82	26.96	726289
		5	27.62	27.55	27.69	1186619
Aroclor-1260	.10	*1	24.74	24.67	24.81	1071559
		*2	25.42	25.35	25.49	1190759
		*3	29.74	29.67	29.81	772649
		*4	30.70	30.63	30.77	1498839
		5	32.95	32.88	33.02	1175999

* Denotes required peaks

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

Instrument ID: 5890 8 Date(s) Analyzed: 03/25/98 03/25/98

GC Column: RTX-1701 ID: .53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	.50	*1	27.94	27.87	28.01	106883
		*2	32.03	31.96	32.10	231111
		*3	33.75	33.68	33.82	189479
		*4	35.10	35.03	35.17	198007
		5				
Aroclor-1016	.10	*1	12.70	12.63	12.77	305849
		*2	14.67	14.60	14.74	699099
		*3	17.08	17.01	17.15	1256249
		*4	17.84	17.77	17.91	508839
		5	20.41	20.34	20.48	595439
Aroclor-1221	.20	*1	11.67	11.60	11.74	162759
		*2	12.41	12.34	12.48	116239
		*3	12.70	12.63	12.77	495214
		4				
		5				
Aroclor-1232	.10	*1	8.46	8.39	8.53	141519
		*2	12.70	12.63	12.77	353269
		*3	14.67	14.60	14.74	331669
		*4	17.08	17.01	17.15	615829
		5				
Aroclor-1242	.10	*1	12.70	12.63	12.77	212819
		*2	14.67	14.60	14.74	423899
		*3	17.08	17.01	17.15	753969
		*4	17.84	17.77	17.91	300439
		5	20.42	20.35	20.49	368879
Aroclor-1248	.10	*1	14.67	14.60	14.74	281569
		*2	17.08	17.01	17.15	839369
		*3	18.92	18.85	18.99	480839
		*4	20.41	20.34	20.48	769679
		5	20.97	20.90	21.04	494939
Aroclor-1254	.10	*1	22.66	22.59	22.73	898959
		*2	23.63	23.56	23.70	843239
		*3	26.13	26.06	26.20	1050719
		*4	28.12	28.05	28.19	531939
		5	29.98	29.91	30.05	997919
Aroclor-1260	.10	*1	26.95	26.88	27.02	862699
		*2	28.11	28.04	28.18	1036059
		*3	31.84	31.77	31.91	657659
		*4	33.28	33.21	33.35	1333399
		5	35.15	35.08	35.22	1163099

* Denotes required peaks

6G

PESTICIDE ANALYTE RESOLUTION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): RESCO1 Lab Sample ID (1): RESC01

Date Analyzed (1): 03/24/98 Time Analyzed (1): 22:52

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.42	100.00
02	gamma-Chlordane	20.40	100.00
03	Endosulfan I	21.35	100.00
04	4,4'-DDE	22.68	100.00
05	Dieldrin	23.20	100.00
06	Endosulfan Sulfate	29.08	100.00
07	Methoxychlor	32.30	100.00
08	Endrin ketone	32.68	100.00
09	Decachlorobiphenyl	39.47	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): RESCO1 Lab Sample ID (2): RESC01

Date Analyzed (2): 03/24/98 Time Analyzed (2): 22:52

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.22	100.00
02	Endosulfan I	24.56	95.70
03	gamma-Chlordane	24.81	100.00
04	4,4'-DDE	25.54	100.00
05	Dieldrin	26.46	100.00
06	Methoxychlor	33.75	100.00
07	Endosulfan Sulfate	33.96	100.00
08	Endrin ketone	36.03	80.80
09	Decachlorobiphenyl	41.54	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): PEM01 Lab Sample ID (1): PEM01

Date Analyzed (1): 03/24/98 Time Analyzed (1): 23:46

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.42	100.00
02	alpha-BHC	11.08	100.00
03	gamma-BHC (Lindane)	13.01	100.00
04	beta-BHC	14.23	100.00
05	Endrin	25.06	100.00
06	4,4'-DDT	27.49	100.00
07	Methoxychlor	32.31	100.00
08	Decachlorobiphenyl	39.48	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): PEM01 Lab Sample ID (2): PEM01

Date Analyzed (2): 03/24/98 Time Analyzed (2): 23:46

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.22	100.00
02	alpha-BHC	14.37	100.00
03	gamma-BHC (Lindane)	16.48	100.00
04	beta-BHC	20.59	100.00
05	Endrin	27.61	100.00
06	4,4'-DDT	30.58	100.00
07	Methoxychlor	33.75	100.00
08	Decachlorobiphenyl	41.55	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): PEM02 Lab Sample ID (1): PEM02

Date Analyzed (1): 03/25/98 Time Analyzed (1): 13:47

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.42	100.00
02	alpha-BHC	11.07	100.00
03	gamma-BHC (Lindane)	13.00	100.00
04	beta-BHC	14.22	100.00
05	Endrin	25.05	100.00
06	4,4'-DDT	27.48	100.00
07	Methoxychlor	32.30	100.00
08	Decachlorobiphenyl	39.47	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): PEM02 Lab Sample ID (2): PEM02

Date Analyzed (2): 03/25/98 Time Analyzed (2): 13:47

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.22	100.00
02	alpha-BHC	14.36	100.00
03	gamma-BHC (Lindane)	16.47	100.00
04	beta-BHC	20.58	100.00
05	Endrin	27.60	100.00
06	4,4'-DDT	30.57	100.00
07	Methoxychlor	33.74	100.00
08	Decachlorobiphenyl	41.53	

6H

PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): PEM03 Lab Sample ID (1): PEM03

Date Analyzed (1): 03/26/98 Time Analyzed (1): 17:49

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.41	100.00
02	alpha-BHC	11.06	100.00
03	gamma-BHC (Lindane)	12.99	100.00
04	beta-BHC	14.21	100.00
05	Endrin	25.04	100.00
06	4,4'-DDT	27.47	100.00
07	Methoxychlor	32.30	100.00
08	Decachlorobiphenyl	39.46	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): PEM03 Lab Sample ID (2): PEM03

Date Analyzed (2): 03/26/98 Time Analyzed (2): 17:49

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.20	100.00
02	alpha-BHC	14.35	100.00
03	gamma-BHC (Lindane)	16.45	100.00
04	beta-BHC	20.57	100.00
05	Endrin	27.58	100.00
06	4,4'-DDT	30.55	100.00
07	Methoxychlor	33.73	100.00
08	Decachlorobiphenyl	41.51	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): PEM05 Lab Sample ID (1): PEM05

Date Analyzed (1): 03/30/98 Time Analyzed (1): 11:51

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.44	100.00
02	alpha-BHC	11.10	100.00
03	gamma-BHC (Lindane)	13.03	100.00
04	beta-BHC	14.25	100.00
05	Endrin	25.08	100.00
06	4,4'-DDT	27.50	100.00
07	Methoxychlor	32.31	100.00
08	Decachlorobiphenyl	39.48	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): PEM05 Lab Sample ID (2): PEM05

Date Analyzed (2): 03/30/98 Time Analyzed (2): 11:51

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.22	100.00
02	alpha-BHC	14.37	100.00
03	gamma-BHC (Lindane)	16.48	100.00
04	beta-BHC	20.59	100.00
05	Endrin	27.61	100.00
06	4,4'-DDT	30.57	100.00
07	Methoxychlor	33.74	100.00
08	Decachlorobiphenyl	41.53	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): PEM06 Lab Sample ID (1): PEM06

Date Analyzed (1): 04/03/98 Time Analyzed (1): 19:10

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.42	100.00
02	alpha-BHC	11.08	100.00
03	gamma-BHC (Lindane)	13.01	100.00
04	beta-BHC	14.23	100.00
05	Endrin	25.06	100.00
06	4,4'-DDT	27.48	100.00
07	Methoxychlor	32.30	100.00
08	Decachlorobiphenyl	39.47	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): PEM06 Lab Sample ID (2): PEM06

Date Analyzed (2): 04/03/98 Time Analyzed (2): 19:10

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.22	100.00
02	alpha-BHC	14.36	100.00
03	gamma-BHC (Lindane)	16.47	100.00
04	beta-BHC	20.58	100.00
05	Endrin	27.60	100.00
06	4,4'-DDT	30.56	100.00
07	Methoxychlor	33.73	100.00
08	Decachlorobiphenyl	41.52	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): PEM07 Lab Sample ID (1): PEM07

Date Analyzed (1): 04/04/98 Time Analyzed (1): 21:38

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.42	100.00
02	alpha-BHC	11.08	100.00
03	gamma-BHC (Lindane)	13.01	100.00
04	beta-BHC	14.23	100.00
05	Endrin	25.07	100.00
06	4,4'-DDT	27.49	100.00
07	Methoxychlor	32.31	100.00
08	Decachlorobiphenyl	39.49	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): PEM07 Lab Sample ID (2): PEM07

Date Analyzed (2): 04/04/98 Time Analyzed (2): 21:38

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.22	100.00
02	alpha-BHC	14.37	100.00
03	gamma-BHC (Lindane)	16.47	100.00
04	beta-BHC	20.58	100.00
05	Endrin	27.61	100.00
06	4,4'-DDT	30.57	100.00
07	Methoxychlor	33.74	100.00
08	Decachlorobiphenyl	41.54	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): PEM08 Lab Sample ID (1): PEM08

Date Analyzed (1): 04/05/98 Time Analyzed (1): 17:54

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.43	100.00
02	alpha-BHC	11.08	100.00
03	gamma-BHC (Lindane)	13.02	100.00
04	beta-BHC	14.23	100.00
05	Endrin	25.07	100.00
06	4,4'-DDT	27.49	100.00
07	Methoxychlor	32.31	100.00
08	Decachlorobiphenyl	39.48	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): PEM08 Lab Sample ID (2): PEM08

Date Analyzed (2): 04/05/98 Time Analyzed (2): 17:54

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.22	100.00
02	alpha-BHC	14.37	100.00
03	gamma-BHC (Lindane)	16.47	100.00
04	beta-BHC	20.58	100.00
05	Endrin	27.60	100.00
06	4,4'-DDT	30.57	100.00
07	Methoxychlor	33.74	100.00
08	Decachlorobiphenyl	41.53	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): PEM09 Lab Sample ID (1): PEM09

Date Analyzed (1): 04/06/98 Time Analyzed (1): 16:40

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.42	100.00
02	alpha-BHC	11.08	100.00
03	gamma-BHC (Lindane)	13.01	100.00
04	beta-BHC	14.23	100.00
05	Endrin	25.06	100.00
06	4,4'-DDT	27.48	100.00
07	Methoxychlor	32.30	100.00
08	Decachlorobiphenyl	39.48	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): PEM09 Lab Sample ID (2): PEM09

Date Analyzed (2): 04/06/98 Time Analyzed (2): 16:40

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.22	100.00
02	alpha-BHC	14.36	100.00
03	gamma-BHC (Lindane)	16.47	100.00
04	beta-BHC	20.57	100.00
05	Endrin	27.59	100.00
06	4,4'-DDT	30.56	100.00
07	Methoxychlor	33.73	100.00
08	Decachlorobiphenyl	41.52	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): PEM10 Lab Sample ID (1): PEM10

Date Analyzed (1): 04/07/98 Time Analyzed (1): 18:42

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.42	100.00
02	alpha-BHC	11.07	100.00
03	gamma-BHC (Lindane)	13.00	100.00
04	beta-BHC	14.22	100.00
05	Endrin	25.06	100.00
06	4,4'-DDT	27.48	100.00
07	Methoxychlor	32.30	100.00
08	Decachlorobiphenyl	39.47	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): PEM10 Lab Sample ID (2): PEM10

Date Analyzed (2): 04/07/98 Time Analyzed (2): 18:42

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.21	100.00
02	alpha-BHC	14.35	100.00
03	gamma-BHC (Lindane)	16.46	100.00
04	beta-BHC	20.57	100.00
05	Endrin	27.59	100.00
06	4,4'-DDT	30.56	100.00
07	Methoxychlor	33.73	100.00
08	Decachlorobiphenyl	41.51	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): PEM11 Lab Sample ID (1): PEM11

Date Analyzed (1): 04/08/98 Time Analyzed (1): 13:33

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.42	100.00
02	alpha-BHC	11.07	100.00
03	gamma-BHC (Lindane)	13.00	100.00
04	beta-BHC	14.22	100.00
05	Endrin	25.05	100.00
06	4,4'-DDT	27.47	100.00
07	Methoxychlor	32.30	100.00
08	Decachlorobiphenyl	39.46	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): PEM11 Lab Sample ID (2): PEM11

Date Analyzed (2): 04/08/98 Time Analyzed (2): 13:33

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.21	100.00
02	alpha-BHC	14.35	100.00
03	gamma-BHC (Lindane)	16.46	100.00
04	beta-BHC	20.56	100.00
05	Endrin	27.58	100.00
06	4,4'-DDT	30.55	100.00
07	Decachlorobiphenyl	41.50	
08			

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): PEM12 Lab Sample ID (1): PEM12

Date Analyzed (1): 04/09/98 Time Analyzed (1): 18:58

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.42	100.00
02	alpha-BHC	11.07	100.00
03	gamma-BHC (Lindane)	13.01	100.00
04	beta-BHC	14.23	100.00
05	Endrin	25.05	100.00
06	4,4'-DDT	27.48	100.00
07	Decachlorobiphenyl	39.47	
08			

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): PEM12 Lab Sample ID (2): PEM12

Date Analyzed (2): 04/09/98 Time Analyzed (2): 18:58

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.22	100.00
02	alpha-BHC	14.35	100.00
03	gamma-BHC (Lindane)	16.46	100.00
04	beta-BHC	20.56	100.00
05	Endrin	27.58	100.00
06	4,4'-DDT	30.55	100.00
07	Decachlorobiphenyl	41.51	
08			

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): INDAM02 Lab Sample ID (1): INDAM02

Date Analyzed (1): 03/26/98 Time Analyzed (1): 00:48

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.42	100.00
02	alpha-BHC	11.08	100.00
03	gamma-BHC (Lindane)	13.01	100.00
04	Heptachlor	14.37	100.00
05	Endosulfan I	21.34	100.00
06	Dieldrin	23.20	100.00
07	Endrin	25.06	100.00
08	4,4'-DDD	25.97	100.00
09	4,4'-DDT	27.48	100.00
10	Methoxychlor	32.30	100.00
11	Decachlorobiphenyl	39.47	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): INDAM02 Lab Sample ID (2): INDAM02

Date Analyzed (2): 03/26/98 Time Analyzed (2): 00:48

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.22	100.00
02	alpha-BHC	14.37	100.00
03	gamma-BHC (Lindane)	16.48	100.00
04	Heptachlor	17.66	100.00
05	Endosulfan I	24.56	100.00
06	Dieldrin	26.45	100.00
07	Endrin	27.61	100.00
08	4,4'-DDD	29.71	100.00
09	4,4'-DDT	30.57	100.00
10	Methoxychlor	33.74	100.00
11	Decachlorobiphenyl	41.54	

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): INDAM03 Lab Sample ID (1): INDAM03

Date Analyzed (1): 03/27/98 Time Analyzed (1): 06:45

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.42	100.00
02	alpha-BHC	11.07	100.00
03	gamma-BHC (Lindane)	13.00	100.00
04	Heptachlor	14.37	100.00
05	Endosulfan I	21.34	100.00
06	Dieldrin	23.19	100.00
07	Endrin	25.05	100.00
08	4,4'-DDD	25.96	100.00
09	4,4'-DDT	27.48	100.00
10	Methoxychlor	32.29	100.00
11	Decachlorobiphenyl	39.46	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): INDAM03 Lab Sample ID (2): INDAM03

Date Analyzed (2): 03/27/98 Time Analyzed (2): 06:45

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.21	100.00
02	alpha-BHC	14.36	100.00
03	gamma-BHC (Lindane)	16.47	100.00
04	Heptachlor	17.65	100.00
05	Endosulfan I	24.54	100.00
06	Dieldrin	26.44	100.00
07	Endrin	27.59	100.00
08	4,4'-DDD	29.70	100.00
09	4,4'-DDT	30.56	100.00
10	Methoxychlor	33.73	100.00
11	Decachlorobiphenyl	41.52	

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): INDAM04 Lab Sample ID (1): INDAM04

Date Analyzed (1): 04/04/98 Time Analyzed (1): 06:52

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.43	100.00
02	alpha-BHC	11.09	100.00
03	gamma-BHC (Lindane)	13.02	100.00
04	Heptachlor	14.38	100.00
05	Endosulfan I	21.35	100.00
06	Dieldrin	23.21	100.00
07	Endrin	25.07	100.00
08	4,4'-DDD	26.00	100.00
09	4,4'-DDT	27.50	100.00
10	Methoxychlor	32.33	100.00
11	Decachlorobiphenyl	39.50	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): INDAM04 Lab Sample ID (2): INDAM04

Date Analyzed (2): 04/04/98 Time Analyzed (2): 06:52

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.23	100.00
02	alpha-BHC	14.37	100.00
03	gamma-BHC (Lindane)	16.48	100.00
04	Heptachlor	17.66	100.00
05	Endosulfan I	24.56	100.00
06	Dieldrin	26.46	100.00
07	Endrin	27.61	100.00
08	4,4'-DDD	29.72	100.00
09	4,4'-DDT	30.58	100.00
10	Methoxychlor	33.76	100.00
11	Decachlorobiphenyl	41.55	

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): INDAM05 Lab Sample ID (1): INDAM05

Date Analyzed (1): 04/06/98 Time Analyzed (1): 04:42

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.42	100.00
02	alpha-BHC	11.08	100.00
03	gamma-BHC (Lindane)	13.01	100.00
04	Heptachlor	14.37	100.00
05	Endosulfan I	21.35	100.00
06	Dieldrin	23.20	100.00
07	Endrin	25.06	100.00
08	4,4'-DDD	25.99	100.00
09	4,4'-DDT	27.49	100.00
10	Methoxychlor	32.32	100.00
11	Decachlorobiphenyl	39.49	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): INDAM05 Lab Sample ID (2): INDAM05

Date Analyzed (2): 04/06/98 Time Analyzed (2): 04:42

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.22	100.00
02	alpha-BHC	14.36	100.00
03	gamma-BHC (Lindane)	16.47	100.00
04	Heptachlor	17.65	100.00
05	Endosulfan I	24.55	100.00
06	Dieldrin	26.45	100.00
07	Endrin	27.60	100.00
08	4,4'-DDD	29.71	100.00
09	4,4'-DDT	30.57	100.00
10	Methoxychlor	33.75	100.00
11	Decachlorobiphenyl	41.54	

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): INDAM06 Lab Sample ID (1): INDAM06

Date Analyzed (1): 04/07/98 Time Analyzed (1): 05:16

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.43	100.00
02	alpha-BHC	11.08	100.00
03	gamma-BHC (Lindane)	13.01	100.00
04	Heptachlor	14.38	100.00
05	Endosulfan I	21.35	100.00
06	Dieldrin	23.20	100.00
07	Endrin	25.07	100.00
08	4,4'-DDD	25.98	100.00
09	4,4'-DDT	27.49	100.00
10	Methoxychlor	32.32	100.00
11	Decachlorobiphenyl	39.49	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): INDAM06 Lab Sample ID (2): INDAM06

Date Analyzed (2): 04/07/98 Time Analyzed (2): 05:16

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.22	100.00
02	alpha-BHC	14.36	100.00
03	gamma-BHC (Lindane)	16.47	100.00
04	Heptachlor	17.65	100.00
05	Endosulfan I	24.55	100.00
06	Dieldrin	26.45	100.00
07	Endrin	27.60	100.00
08	4,4'-DDD	29.70	100.00
09	4,4'-DDT	30.57	100.00
10	Methoxychlor	33.74	100.00
11	Decachlorobiphenyl	41.53	

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): INDAM07 Lab Sample ID (1): INDAM07

Date Analyzed (1): 04/09/98 Time Analyzed (1): 05:15

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.42	100.00
02	alpha-BHC	11.08	100.00
03	gamma-BHC (Lindane)	13.01	100.00
04	Heptachlor	14.37	100.00
05	Endosulfan I	21.34	100.00
06	Dieldrin	23.20	100.00
07	Endrin	25.06	100.00
08	4,4'-DDD	26.01	100.00
09	4,4'-DDT	27.49	100.00
10	Methoxychlor	32.33	100.00
11	Decachlorobiphenyl	39.49	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): INDAM07 Lab Sample ID (2): INDAM07

Date Analyzed (2): 04/09/98 Time Analyzed (2): 05:15

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.22	100.00
02	alpha-BHC	14.36	100.00
03	gamma-BHC (Lindane)	16.47	100.00
04	Heptachlor	17.64	100.00
05	Endosulfan I	24.54	100.00
06	Dieldrin	26.44	100.00
07	Endrin	27.59	100.00
08	4,4'-DDD	29.71	100.00
09	4,4'-DDT	30.56	100.00
10	Methoxychlor	33.75	100.00
11	Decachlorobiphenyl	41.53	

6J
INDIVIDUAL STANDARD MIXTURE B

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): INDBM02 Lab Sample ID (1): INDBM02

Date Analyzed (1): 03/26/98 Time Analyzed (1): 01:42

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.42	100.00
02	beta-BHC	14.23	100.00
03	delta-BHC	15.54	100.00
04	Aldrin	16.04	100.00
05	Heptachlor epoxide	19.37	100.00
06	gamma-Chlordane	20.40	100.00
07	alpha-Chlordane	21.23	100.00
08	4,4'-DDE	22.69	100.00
09	Endosulfan II	26.52	100.00
10	Endrin aldehyde	28.21	100.00
11	Endosulfan Sulfate	29.09	100.00
12	Endrin ketone	32.68	100.00
13	Decachlorobiphenyl	39.48	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): INDBM02 Lab Sample ID (2): INDBM02

Date Analyzed (2): 03/26/98 Time Analyzed (2): 01:42

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.22	100.00
02	Aldrin	19.18	100.00
03	beta-BHC	20.59	100.00
04	delta-BHC	21.94	100.00
05	Heptachlor epoxide	23.02	100.00
06	gamma-Chlordane	24.81	98.00
07	alpha-Chlordane	25.15	100.00
08	4,4'-DDE	25.55	100.00
09	Endosulfan II	30.11	100.00
10	Endrin aldehyde	32.30	100.00
11	Endosulfan Sulfate	33.96	100.00
12	Endrin ketone	36.03	100.00
13	Decachlorobiphenyl	41.54	

6J
INDIVIDUAL STANDARD MIXTURE B

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): INDBM03 Lab Sample ID (1): INDBM03

Date Analyzed (1): 03/27/98 Time Analyzed (1): 07:39

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.42	100.00
02	beta-BHC	14.22	100.00
03	delta-BHC	15.53	100.00
04	Aldrin	16.03	100.00
05	Heptachlor epoxide	19.36	100.00
06	gamma-Chlordane	20.39	100.00
07	alpha-Chlordane	21.22	100.00
08	4,4'-DDE	22.68	100.00
09	Endosulfan II	26.51	100.00
10	Endrin aldehyde	28.20	100.00
11	Endosulfan Sulfate	29.08	100.00
12	Endrin ketone	32.67	100.00
13	Decachlorobiphenyl	39.47	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): INDBM03 Lab Sample ID (2): INDBM03

Date Analyzed (2): 03/27/98 Time Analyzed (2): 07:39

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.22	100.00
02	Aldrin	19.17	100.00
03	beta-BHC	20.58	100.00
04	delta-BHC	21.93	100.00
05	Heptachlor epoxide	23.01	100.00
06	gamma-Chlordane	24.80	98.00
07	alpha-Chlordane	25.13	100.00
08	4,4'-DDE	25.53	100.00
09	Endosulfan II	30.10	100.00
10	Endrin aldehyde	32.29	100.00
11	Endosulfan Sulfate	33.95	100.00
12	Endrin ketone	36.01	100.00
13	Decachlorobiphenyl	41.52	

6J
INDIVIDUAL STANDARD MIXTURE B

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): INDBM04 Lab Sample ID (1): INDBM04

Date Analyzed (1): 04/04/98 Time Analyzed (1): 07:46

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.43	100.00
02	beta-BHC	14.23	100.00
03	delta-BHC	15.55	100.00
04	Aldrin	16.04	100.00
05	Heptachlor epoxide	19.37	100.00
06	gamma-Chlordane	20.41	100.00
07	alpha-Chlordane	21.24	100.00
08	4,4'-DDE	22.70	100.00
09	Endosulfan II	26.52	100.00
10	Endrin aldehyde	28.22	100.00
11	Endosulfan Sulfate	29.10	100.00
12	Endrin ketone	32.69	100.00
13	Decachlorobiphenyl	39.51	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): INDBM04 Lab Sample ID (2): INDBM04

Date Analyzed (2): 04/04/98 Time Analyzed (2): 07:46

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.23	100.00
02	Aldrin	19.18	100.00
03	beta-BHC	20.59	100.00
04	delta-BHC	21.94	100.00
05	Heptachlor epoxide	23.02	100.00
06	gamma-Chlordane	24.81	98.00
07	alpha-Chlordane	25.14	100.00
08	4,4'-DDE	25.55	100.00
09	Endosulfan II	30.10	100.00
10	Endrin aldehyde	32.30	100.00
11	Endosulfan Sulfate	33.96	100.00
12	Endrin ketone	36.03	100.00
13	Decachlorobiphenyl	41.56	

12.5;UL5,4

6J

INDIVIDUAL STANDARD MIXTURE B

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): INDBM05 Lab Sample ID (1): INDBM05

Date Analyzed (1): 04/06/98 Time Analyzed (1): 05:36

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.43	100.00
02	beta-BHC	14.23	100.00
03	delta-BHC	15.54	100.00
04	Aldrin	16.04	100.00
05	Heptachlor epoxide	19.37	100.00
06	gamma-Chlordane	20.40	100.00
07	alpha-Chlordane	21.23	100.00
08	4,4'-DDE	22.69	100.00
09	Endosulfan II	26.52	100.00
10	Endrin aldehyde	28.21	100.00
11	Endosulfan Sulfate	29.09	100.00
12	Endrin ketone	32.68	100.00
13	Decachlorobiphenyl	39.50	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): INDBM05 Lab Sample ID (2): INDBM05

Date Analyzed (2): 04/06/98 Time Analyzed (2): 05:36

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.22	100.00
02	Aldrin	19.17	100.00
03	beta-BHC	20.58	100.00
04	delta-BHC	21.93	100.00
05	Heptachlor epoxide	23.01	100.00
06	gamma-Chlordane	24.80	98.00
07	alpha-Chlordane	25.14	100.00
08	4,4'-DDE	25.54	100.00
09	Endosulfan II	30.10	100.00
10	Endrin aldehyde	32.29	100.00
11	Endosulfan Sulfate	33.95	100.00
12	Endrin ketone	36.02	100.00
13	Decachlorobiphenyl	41.54	

6J
INDIVIDUAL STANDARD MIXTURE B

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): INDBM06 Lab Sample ID (1): INDBM06

Date Analyzed (1): 04/07/98 Time Analyzed (1): 06:10

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.43	100.00
02	beta-BHC	14.23	100.00
03	delta-BHC	15.55	100.00
04	Aldrin	16.04	100.00
05	Heptachlor epoxide	19.37	100.00
06	gamma-Chlordane	20.40	100.00
07	alpha-Chlordane	21.23	100.00
08	4,4'-DDE	22.69	100.00
09	Endosulfan II	26.52	100.00
10	Endrin aldehyde	28.21	100.00
11	Endosulfan Sulfate	29.09	100.00
12	Endrin ketone	32.68	100.00
13	Decachlorobiphenyl	39.49	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): INDBM06 Lab Sample ID (2): INDBM06

Date Analyzed (2): 04/07/98 Time Analyzed (2): 06:10

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.22	100.00
02	Aldrin	19.18	100.00
03	beta-BHC	20.58	100.00
04	delta-BHC	21.93	100.00
05	Heptachlor epoxide	23.01	100.00
06	gamma-Chlordane	24.80	98.00
07	alpha-Chlordane	25.14	100.00
08	4,4'-DDE	25.54	100.00
09	Endosulfan II	30.10	100.00
10	Endrin aldehyde	32.29	100.00
11	Endosulfan Sulfate	33.95	100.00
12	Endrin ketone	36.02	100.00
13	Decachlorobiphenyl	41.54	

6J
INDIVIDUAL STANDARD MIXTURE B

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column (1): RTX-50 ID: .53 (mm) Instrument ID (1): 5890 8

EPA Sample No. (Standard 1): INDBM07 Lab Sample ID (1): INDBM07

Date Analyzed (1): 04/09/98 Time Analyzed (1): 06:09

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	8.42	100.00
02	beta-BHC	14.23	100.00
03	delta-BHC	15.55	100.00
04	Aldrin	16.04	100.00
05	Heptachlor epoxide	19.36	100.00
06	gamma-Chlordane	20.40	100.00
07	alpha-Chlordane	21.23	100.00
08	4,4'-DDE	22.69	100.00
09	Endosulfan II	26.52	100.00
10	Endrin aldehyde	28.21	100.00
11	Endosulfan Sulfate	29.09	100.00
12	Endrin ketone	32.68	100.00
13	Decachlorobiphenyl	39.50	

GC Column (2): RTX-1701 ID: .53 (mm) Instrument ID (2): 5890 8

EPA Sample No. (Standard 2): INDBM07 Lab Sample ID (2): INDBM07

Date Analyzed (2): 04/09/98 Time Analyzed (2): 06:09

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	10.22	100.00
02	Aldrin	19.17	100.00
03	beta-BHC	20.57	100.00
04	delta-BHC	21.92	100.00
05	Heptachlor epoxide	23.00	100.00
06	gamma-Chlordane	24.79	98.00
07	alpha-Chlordane	25.13	100.00
08	4,4'-DDE	25.54	100.00
09	Endosulfan II	30.09	100.00
10	Endrin aldehyde	32.28	100.00
11	Endosulfan Sulfate	33.94	100.00
12	Endrin ketone	36.01	100.00
13	Decachlorobiphenyl	41.54	

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-50 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): _____ Date Analyzed : _____

LAB Sample ID (PIBLK): _____ Time Analyzed : _____

EPA Sample No.(PEM): PEM01 Date Analyzed : 03/24/98

LAB Sample ID (PEM): PEM01 Time Analyzed : 23:46

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	11.08	11.03	11.13	.009	.010	-10.0
beta-BHC	14.23	14.18	14.28	.012	.010	20.0
gamma-BHC (Lindane)	13.01	12.96	13.06	.009	.010	-10.0
Endrin	25.06	24.99	25.13	.045	.050	-14.0
4,4'-DDT	27.49	27.42	27.56	.103	.100	3.0
Methoxychlor	32.31	32.24	32.38	.226	.250	-9.6

4,4'-DDT % breakdown (1): 6.00 Endrin % breakdown (1): 6.91

Combined % breakdown (1): 12.91

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-1701 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): _____ Date Analyzed : _____

LAB Sample ID (PIBLK): _____ Time Analyzed : _____

EPA Sample No.(PEM): PEM01 Date Analyzed : 03/24/98

LAB Sample ID (PEM): PEM01 Time Analyzed : 23:46

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	14.37	14.33	14.43	.008	.010	-20.0
beta-BHC	20.59	20.54	20.64	.011	.010	10.0
gamma-BHC (Lindane)	16.48	16.43	16.53	.008	.010	-20.0
Endrin	27.61	27.54	27.68	.042	.050	-16.0
4,4'-DDT	30.58	30.51	30.65	.093	.100	-7.0
Methoxychlor	33.75	33.68	33.82	.211	.250	-15.6

4,4'-DDT % breakdown (1): 4.90 Endrin % breakdown (1): 6.84

Combined % breakdown (1): 11.74

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-50 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK01 Date Analyzed : 03/25/98

LAB Sample ID (PIBLK): PIBLK01 Time Analyzed : 12:53

EPA Sample No.(PEM): PEM02 Date Analyzed : 03/25/98

LAB Sample ID (PEM): PEM02 Time Analyzed : 13:47

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	11.07	11.03	11.13	.008	.010	-20.0
beta-BHC	14.22	14.18	14.28	.009	.010	-10.0
gamma-BHC (Lindane)	13.00	12.96	13.06	.008	.010	-20.0
Endrin	25.05	24.99	25.13	.041	.050	-18.0
4,4'-DDT	27.48	27.42	27.56	.096	.100	-4.0
Methoxychlor	32.30	32.24	32.38	.222	.250	-11.2

,4'-DDT % breakdown (1): 4.11 Endrin % breakdown (1): 9.12

Combined % breakdown (1): 13.23

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-1701 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK01 Date Analyzed : 03/25/98

LAB Sample ID (PIBLK): PIBLK01 Time Analyzed : 12:53

EPA Sample No.(PEM): PEM02 Date Analyzed : 03/25/98

LAB Sample ID (PEM): PEM02 Time Analyzed : 13:47

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	14.36	14.33	14.43	.008	.010	-20.0
beta-BHC	20.58	20.54	20.64	.010	.010	.0
gamma-BHC (Lindane)	16.47	16.43	16.53	.008	.010	-20.0
Endrin	27.60	27.54	27.68	.040	.050	-20.0
4,4'-DDT	30.57	30.51	30.65	.100	.100	.0
Methoxychlor	33.74	33.68	33.82	.222	.250	-11.2

4,4'-DDT % breakdown (1): 4.35 Endrin % breakdown (1): 7.08

Combined % breakdown (1): 11.43

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-50 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK03 Date Analyzed : 03/26/98

LAB Sample ID (PIBLK): PIBLK03 Time Analyzed : 16:55

EPA Sample No.(PEM): PEM03 Date Analyzed : 03/26/98

LAB Sample ID (PEM): PEM03 Time Analyzed : 17:49

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	11.06	11.03	11.13	.008	.010	-20.0
beta-BHC	14.21	14.18	14.28	.009	.010	-10.0
gamma-BHC (Lindane)	12.99	12.96	13.06	.008	.010	-20.0
Endrin	25.04	24.99	25.13	.038	.050	-24.0
4,4'-DDT	27.47	27.42	27.56	.098	.100	-2.0
Methoxychlor	32.30	32.24	32.38	.221	.250	-11.6

4,4'-DDT % breakdown (1): 3.63 Endrin % breakdown (1): 9.31

Combined % breakdown (1): 12.94

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-1701 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK03 Date Analyzed : 03/26/98

LAB Sample ID (PIBLK): PIBLK03 Time Analyzed : 16:55

EPA Sample No.(PEM): PEM03 Date Analyzed : 03/26/98

LAB Sample ID (PEM): PEM03 Time Analyzed : 17:49

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	14.35	14.33	14.43	.008	.010	-20.0
beta-BHC	20.57	20.54	20.64	.010	.010	.0
gamma-BHC (Lindane)	16.45	16.43	16.53	.008	.010	-20.0
Endrin	27.58	27.54	27.68	.038	.050	-24.0
4,4'-DDT	30.55	30.51	30.65	.099	.100	-1.0
Methoxychlor	33.73	33.68	33.82	.216	.250	-13.6

4,4'-DDT % breakdown (1): 3.82 Endrin % breakdown (1): 6.86

Combined % breakdown (1): 10.68

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-50 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK06 Date Analyzed : 03/30/98

LAB Sample ID (PIBLK): PIBLK06 Time Analyzed : 10:57

EPA Sample No.(PEM): PEM05 Date Analyzed : 03/30/98

LAB Sample ID (PEM): PEM05 Time Analyzed : 11:51

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	11.10	11.03	11.13	.008	.010	-20.0
beta-BHC	14.25	14.18	14.28	.010	.010	.0
gamma-BHC (Lindane)	13.03	12.96	13.06	.008	.010	-20.0
Endrin	25.08	24.99	25.13	.040	.050	-20.0
4,4'-DDT	27.50	27.42	27.56	.107	.100	7.0
Methoxychlor	32.31	32.24	32.38	.214	.250	-14.4

4,4'-DDT % breakdown (1): 4.06 Endrin % breakdown (1): 9.37

Combined % breakdown (1): 13.43

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-1701 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK06 Date Analyzed : 03/30/98

LAB Sample ID (PIBLK): PIBLK06 Time Analyzed : 10:57

EPA Sample No.(PEM): PEM05 Date Analyzed : 03/30/98

LAB Sample ID (PEM): PEM05 Time Analyzed : 11:51

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	14.37	14.33	14.43	.008	.010	-20.0
beta-BHC	20.59	20.54	20.64	.010	.010	.0
gamma-BHC (Lindane)	16.48	16.43	16.53	.008	.010	-20.0
Endrin	27.61	27.54	27.68	.040	.050	-20.0
4,4'-DDT	30.57	30.51	30.65	.103	.100	3.0
Methoxychlor	33.74	33.68	33.82	.223	.250	-10.8

4,4'-DDT % breakdown (1): 3.58 Endrin % breakdown (1): 6.15

Combined % breakdown (1): 9.73

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-50 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK07 Date Analyzed : 04/03/98

LAB Sample ID (PIBLK): PIBLK07 Time Analyzed : 18:16

EPA Sample No.(PEM): PEM06 Date Analyzed : 04/03/98

LAB Sample ID (PEM): PEM06 Time Analyzed : 19:10

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	11.08	11.03	11.13	.010	.010	.0
beta-BHC	14.23	14.18	14.28	.010	.010	.0
gamma-BHC (Lindane)	13.01	12.96	13.06	.008	.010	-20.0
Endrin	25.06	24.99	25.13	.040	.050	-20.0
4,4'-DDT	27.48	27.42	27.56	.097	.100	-3.0
Methoxychlor	32.30	32.24	32.38	.184	.250	-26.4

4,4'-DDT % breakdown (1): 5.17 Endrin % breakdown (1): 10.37

Combined % breakdown (1): 15.54

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-1701 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK07 Date Analyzed : 04/03/98

LAB Sample ID (PIBLK): PIBLK07 Time Analyzed : 18:16

EPA Sample No.(PEM): PEM06 Date Analyzed : 04/03/98

LAB Sample ID (PEM): PEM06 Time Analyzed : 19:10

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	14.36	14.33	14.43	.008	.010	-20.0
beta-BHC	20.58	20.54	20.64	.010	.010	.0
gamma-BHC (Lindane)	16.47	16.43	16.53	.011	.010	10.0
Endrin	27.60	27.54	27.68	.039	.050	-22.0
4,4'-DDT	30.56	30.51	30.65	.102	.100	2.0
Methoxychlor	33.73	33.68	33.82	.217	.250	-13.2

4,4'-DDT % breakdown (1): 4.74 Endrin % breakdown (1): 9.16

Combined % breakdown (1): 13.90

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-50 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK09 Date Analyzed : 04/04/98

LAB Sample ID (PIBLK): PIBLK09 Time Analyzed : 20:44

EPA Sample No.(PEM): PEM07 Date Analyzed : 04/04/98

LAB Sample ID (PEM): PEM07 Time Analyzed : 21:38

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	11.08	11.03	11.13	.010	.010	.0
beta-BHC	14.23	14.18	14.28	.009	.010	-10.0
gamma-BHC (Lindane)	13.01	12.96	13.06	.008	.010	-20.0
Endrin	25.07	24.99	25.13	.038	.050	-24.0
4,4'-DDT	27.49	27.42	27.56	.102	.100	2.0
Methoxychlor	32.31	32.24	32.38	.226	.250	-9.6

4,4'-DDT % breakdown (1): 3.17 Endrin % breakdown (1): 10.45

Combined % breakdown (1): 13.62

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-1701 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK09 Date Analyzed : 04/04/98

LAB Sample ID (PIBLK): PIBLK09 Time Analyzed : 20:44

EPA Sample No.(PEM): PEM07 Date Analyzed : 04/04/98

LAB Sample ID (PEM): PEM07 Time Analyzed : 21:38

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	14.37	14.33	14.43	.008	.010	-20.0
beta-BHC	20.58	20.54	20.64	.010	.010	.0
gamma-BHC (Lindane)	16.47	16.43	16.53	.008	.010	-20.0
Endrin	27.61	27.54	27.68	.038	.050	-24.0
4,4'-DDT	30.57	30.51	30.65	.106	.100	6.0
Methoxychlor	33.74	33.68	33.82	.230	.250	-8.0

4,4'-DDT % breakdown (1): 3.58 Endrin % breakdown (1): 8.28

Combined % breakdown (1): 11.86

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-50 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK10 Date Analyzed : 04/05/98

LAB Sample ID (PIBLK): PIBLK10 Time Analyzed : 17:00

EPA Sample No.(PEM): PEM08 Date Analyzed : 04/05/98

LAB Sample ID (PEM): PEM08 Time Analyzed : 17:54

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	11.08	11.03	11.13	.008	.010	-20.0
beta-BHC	14.23	14.18	14.28	.009	.010	-10.0
gamma-BHC (Lindane)	13.02	12.96	13.06	.008	.010	-20.0
Endrin	25.07	24.99	25.13	.039	.050	-22.0
4,4'-DDT	27.49	27.42	27.56	.102	.100	2.0
Methoxychlor	32.31	32.24	32.38	.224	.250	-10.4

4,4'-DDT % breakdown (1): 3.24 Endrin % breakdown (1): 11.20

Combined % breakdown (1): 14.44

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-1701 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK10 Date Analyzed : 04/05/98

LAB Sample ID (PIBLK): PIBLK10 Time Analyzed : 17:00

EPA Sample No.(PEM): PEM08 Date Analyzed : 04/05/98

LAB Sample ID (PEM): PEM08 Time Analyzed : 17:54

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	14.37	14.33	14.43	.008	.010	-20.0
beta-BHC	20.58	20.54	20.64	.010	.010	.0
gamma-BHC (Lindane)	16.47	16.43	16.53	.008	.010	-20.0
Endrin	27.60	27.54	27.68	.038	.050	-24.0
4,4'-DDT	30.57	30.51	30.65	.106	.100	6.0
Methoxychlor	33.74	33.68	33.82	.228	.250	-8.8

4,4'-DDT % breakdown (1): 2.89 Endrin % breakdown (1): 7.23

Combined % breakdown (1): 10.12

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-50 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK12 Date Analyzed : 04/06/98

LAB Sample ID (PIBLK): PIBLK12 Time Analyzed : 15:46

EPA Sample No.(PEM): PEM09 Date Analyzed : 04/06/98

LAB Sample ID (PEM): PEM09 Time Analyzed : 16:40

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	11.08	11.03	11.13	.010	.010	.0
beta-BHC	14.23	14.18	14.28	.009	.010	-10.0
gamma-BHC (Lindane)	13.01	12.96	13.06	.008	.010	-20.0
Endrin	25.06	24.99	25.13	.038	.050	-24.0
4,4'-DDT	27.48	27.42	27.56	.101	.100	1.0
Methoxychlor	32.30	32.24	32.38	.220	.250	-12.0

4,4'-DDT % breakdown (1): 4.40 Endrin % breakdown (1): 10.98

Combined % breakdown (1): 15.38

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-1701 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK12 Date Analyzed : 04/06/98

LAB Sample ID (PIBLK): PIBLK12 Time Analyzed : 15:46

EPA Sample No.(PEM): PEM09 Date Analyzed : 04/06/98

LAB Sample ID (PEM): PEM09 Time Analyzed : 16:40

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	14.36	14.33	14.43	.008	.010	-20.0
beta-BHC	20.57	20.54	20.64	.011	.010	10.0
gamma-BHC (Lindane)	16.47	16.43	16.53	.012	.010	20.0
Endrin	27.59	27.54	27.68	.038	.050	-24.0
4,4'-DDT	30.56	30.51	30.65	.105	.100	5.0
Methoxychlor	33.73	33.68	33.82	.228	.250	-8.8

4,4'-DDT % breakdown (1): 3.24 Endrin % breakdown (1): 7.68

Combined % breakdown (1): 10.92

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-50 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK14 Date Analyzed : 04/07/98

LAB Sample ID (PIBLK): PIBLK14 Time Analyzed : 17:48

EPA Sample No.(PEM): PEM10 Date Analyzed : 04/07/98

LAB Sample ID (PEM): PEM10 Time Analyzed : 18:42

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	11.07	11.03	11.13	.010	.010	.0
beta-BHC	14.22	14.18	14.28	.009	.010	-10.0
gamma-BHC (Lindane)	13.00	12.96	13.06	.008	.010	-20.0
Endrin	25.06	24.99	25.13	.038	.050	-24.0
4,4'-DDT	27.48	27.42	27.56	.101	.100	1.0
Methoxychlor	32.30	32.24	32.38	.224	.250	-10.4

4,4'-DDT % breakdown (1): 3.88 Endrin % breakdown (1): 9.67

Combined % breakdown (1): 13.55

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-1701 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK14 Date Analyzed : 04/07/98

LAB Sample ID (PIBLK): PIBLK14 Time Analyzed : 17:48

EPA Sample No.(PEM): PEM10 Date Analyzed : 04/07/98

LAB Sample ID (PEM): PEM10 Time Analyzed : 18:42

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	14.35	14.33	14.43	.008	.010	-20.0
beta-BHC	20.57	20.54	20.64	.010	.010	.0
gamma-BHC (Lindane)	16.46	16.43	16.53	.008	.010	-20.0
Endrin	27.59	27.54	27.68	.039	.050	-22.0
4,4'-DDT	30.56	30.51	30.65	.105	.100	5.0
Methoxychlor	33.73	33.68	33.82	.231	.250	-7.6

4,4'-DDT % breakdown (1): 3.95 Endrin % breakdown (1): 7.59

Combined % breakdown (1): 11.54

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-50 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK15 Date Analyzed : 04/08/98

LAB Sample ID (PIBLK): PIBLK15 Time Analyzed : 12:39

EPA Sample No.(PEM): PEM11 Date Analyzed : 04/08/98

LAB Sample ID (PEM): PEM11 Time Analyzed : 13:33

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	11.07	11.03	11.13	.011	.010	10.0
beta-BHC	14.22	14.18	14.28	.009	.010	-10.0
gamma-BHC (Lindane)	13.00	12.96	13.06	.008	.010	-20.0
Endrin	25.05	24.99	25.13	.038	.050	-24.0
4,4'-DDT	27.47	27.42	27.56	.102	.100	2.0
Methoxychlor	32.30	32.24	32.38	.228	.250	-8.8

,4'-DDT % breakdown (1): 3.82 Endrin % breakdown (1): 10.18

Combined % breakdown (1): 14.00

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-1701 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK15 Date Analyzed : 04/08/98

LAB Sample ID (PIBLK): PIBLK15 Time Analyzed : 12:39

EPA Sample No.(PEM): PEM11 Date Analyzed : 04/08/98

LAB Sample ID (PEM): PEM11 Time Analyzed : 13:33

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	14.35	14.33	14.43	.008	.010	-20.0
beta-BHC	20.56	20.54	20.64	.010	.010	.0
gamma-BHC (Lindane)	16.46	16.43	16.53	.012	.010	20.0
Endrin	27.58	27.54	27.68	.038	.050	-24.0
4,4'-DDT	30.55	30.51	30.65	.106	.100	6.0
Methoxychlor	33.72	33.67	33.81	.228	.250	-8.8

4,4'-DDT % breakdown (1): 3.29 Endrin % breakdown (1): 8.01

Combined % breakdown (1): 11.30

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-50 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK17 Date Analyzed : 04/09/98

LAB Sample ID (PIBLK): PIBLK17 Time Analyzed : 18:04

EPA Sample No.(PEM): PEM12 Date Analyzed : 04/09/98

LAB Sample ID (PEM): PEM12 Time Analyzed : 18:58

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	11.07	11.03	11.13	.011	.010	10.0
beta-BHC	14.23	14.18	14.28	.012	.010	20.0
gamma-BHC (Lindane)	13.01	12.96	13.06	.008	.010	-20.0
Endrin	25.05	24.99	25.13	.040	.050	-20.0
4,4'-DDT	27.48	27.42	27.56	.107	.100	7.0
Methoxychlor	32.30	32.24	32.38	.231	.250	-7.6

4,4'-DDT % breakdown (1): 3.45 Endrin % breakdown (1): 11.36

Combined % breakdown (1): 14.81

FORM VII PEST-1 OLM03.0

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-1701 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK17 Date Analyzed : 04/09/98

LAB Sample ID (PIBLK): PIBLK17 Time Analyzed : 18:04

EPA Sample No.(PEM): PEM12 Date Analyzed : 04/09/98

LAB Sample ID (PEM): PEM12 Time Analyzed : 18:58

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	14.35	14.33	14.43	.008	.010	-20.0
beta-BHC	20.56	20.54	20.64	.010	.010	.0
gamma-BHC (Lindane)	16.46	16.43	16.53	.012	.010	20.0
Endrin	27.58	27.54	27.68	.039	.050	-22.0
4,4'-DDT	30.55	30.51	30.65	.108	.100	8.0
Methoxychlor	33.72	33.67	33.81	.235	.250	-6.0

4,4'-DDT % breakdown (1): 2.58 Endrin % breakdown (1): 6.65

Combined % breakdown (1): 9.23

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-50 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK02 Date Analyzed : 03/25/98

LAB Sample ID (PIBLK): PIBLK02 Time Analyzed : 23:54

EPA Sample No.(INDA): INDAM02 Date Analyzed : 03/26/98

LAB Sample ID (INDA): INDAM02 Time Analyzed : 00:48

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	11.08	11.03	11.13	.020	.020	.0
gamma-BHC (Lindane)	13.01	12.96	13.06	.019	.020	-5.0
Heptachlor	14.37	14.33	14.43	.024	.020	20.0
Endosulfan I	21.34	21.28	21.42	.020	.020	.0
Dieldrin	23.20	23.13	23.27	.039	.040	-2.5
Endrin	25.06	24.99	25.13	.039	.040	-2.5
4,4'-DDD	25.97	25.91	26.05	.040	.040	.0
4,4'-DDT	27.48	27.42	27.56	.040	.040	.0
Methoxychlor	32.30	32.24	32.38	.202	.200	1.0
Tetrachloro-m-xylene	8.42	8.37	8.47	.021	.020	5.0
Decachlorobiphenyl	39.47	39.38	39.58	.038	.040	-5.0

EPA Sample No.(INDB): INDBM02 Date Analyzed : 03/26/98

LAB Sample ID (INDB): INDBM02 Time Analyzed : 01:42

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	14.23	14.18	14.28	.021	.020	5.0
delta-BHC	15.54	15.49	15.59	.021	.020	5.0
Aldrin	16.04	15.99	16.09	.022	.020	10.0
Heptachlor epoxide	19.37	19.30	19.44	.021	.020	5.0
4,4'-DDE	22.69	22.62	22.76	.044	.040	10.0
Endosulfan II	26.52	26.45	26.59	.044	.040	10.0
Endosulfan Sulfate	29.09	29.02	29.16	.042	.040	5.0
Endrin ketone	32.68	32.61	32.75	.042	.040	5.0
Endrin aldehyde	28.21	28.14	28.28	.043	.040	7.5
alpha-Chlordane	21.23	21.16	21.30	.021	.020	5.0
gamma-Chlordane	20.40	20.33	20.47	.021	.020	5.0
Tetrachloro-m-xylene	8.42	8.37	8.47	.021	.020	5.0
Decachlorobiphenyl	39.48	39.38	39.58	.042	.040	5.0

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-1701 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK02 Date Analyzed : 03/25/98

LAB Sample ID (PIBLK): PIBLK02 Time Analyzed : 23:54

EPA Sample No.(INDA): INDAM02 Date Analyzed : 03/26/98

LAB Sample ID (INDA): INDAM02 Time Analyzed : 00:48

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	14.37	14.33	14.43	.019	.020	-5.0
gamma-BHC (Lindane)	16.48	16.43	16.53	.019	.020	-5.0
Heptachlor	17.66	17.61	17.71	.019	.020	-5.0
Endosulfan I	24.56	24.49	24.63	.019	.020	-5.0
Dieldrin	26.45	26.39	26.53	.037	.040	-7.5
Endrin	27.61	27.54	27.68	.039	.040	-2.5
4,4'-DDD	29.71	29.64	29.78	.039	.040	-2.5
4,4'-DDT	30.57	30.51	30.65	.039	.040	-2.5
Methoxychlor	33.74	33.68	33.82	.200	.200	.0
Tetrachloro-m-xylene	10.22	10.17	10.27	.020	.020	.0
Decachlorobiphenyl	41.54	41.45	41.65	.040	.040	.0

EPA Sample No.(INDB): INDBM02 Date Analyzed : 03/26/98

LAB Sample ID (INDB): INDBM02 Time Analyzed : 01:42

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	20.59	20.54	20.64	.021	.020	5.0
delta-BHC	21.94	21.89	21.99	.021	.020	5.0
Aldrin	19.18	19.14	19.24	.021	.020	5.0
Heptachlor epoxide	23.02	22.95	23.09	.021	.020	5.0
4,4'-DDE	25.55	25.48	25.62	.042	.040	5.0
Endosulfan II	30.11	30.04	30.18	.042	.040	5.0
Endosulfan Sulfate	33.96	33.89	34.03	.041	.040	2.5
Endrin ketone	36.03	35.96	36.10	.041	.040	2.5
Endrin aldehyde	32.30	32.24	32.38	.045	.040	12.5
alpha-Chlordane	25.15	25.08	25.22	.021	.020	5.0
gamma-Chlordane	24.81	24.74	24.88	.021	.020	5.0
Tetrachloro-m-xylene	10.22	10.17	10.27	.021	.020	5.0
Decachlorobiphenyl	41.54	41.45	41.65	.041	.040	2.5

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-50 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK04 Date Analyzed : 03/27/98

LAB Sample ID (PIBLK): PIBLK04 Time Analyzed : 05:51

EPA Sample No.(INDA): INDAM03 Date Analyzed : 03/27/98

LAB Sample ID (INDA): INDAM03 Time Analyzed : 06:45

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	11.07	11.03	11.13	.021	.020	5.0
gamma-BHC (Lindane)	13.00	12.96	13.06	.021	.020	5.0
Heptachlor	14.37	14.33	14.43	.024	.020	20.0
Endosulfan I	21.34	21.28	21.42	.020	.020	.0
Dieldrin	23.19	23.13	23.27	.041	.040	2.5
Endrin	25.05	24.99	25.13	.041	.040	2.5
4,4'-DDD	25.96	25.91	26.05	.042	.040	5.0
4,4'-DDT	27.48	27.42	27.56	.046	.040	15.0
Methoxychlor	32.29	32.24	32.38	.229	.200	14.5
Tetrachloro-m-xylene	8.42	8.37	8.47	.018	.020	-10.0
Decachlorobiphenyl	39.46	39.38	39.58	.040	.040	.0

EPA Sample No.(INDB): INDBM03 Date Analyzed : 03/27/98

LAB Sample ID (INDB): INDBM03 Time Analyzed : 07:39

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	14.22	14.18	14.28	.020	.020	.0
delta-BHC	15.53	15.49	15.59	.022	.020	10.0
Aldrin	16.03	15.99	16.09	.021	.020	5.0
Heptachlor epoxide	19.36	19.30	19.44	.021	.020	5.0
4,4'-DDE	22.68	22.62	22.76	.043	.040	7.5
Endosulfan II	26.51	26.45	26.59	.043	.040	7.5
Endosulfan Sulfate	29.08	29.02	29.16	.044	.040	10.0
Endrin ketone	32.67	32.61	32.75	.043	.040	7.5
Endrin aldehyde	28.20	28.14	28.28	.043	.040	7.5
alpha-Chlordane	21.22	21.16	21.30	.021	.020	5.0
gamma-Chlordane	20.39	20.33	20.47	.021	.020	5.0
Tetrachloro-m-xylene	8.42	8.37	8.47	.019	.020	-5.0
Decachlorobiphenyl	39.47	39.38	39.58	.041	.040	2.5

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-1701 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK04 Date Analyzed : 03/27/98

LAB Sample ID (PIBLK): PIBLK04 Time Analyzed : 05:51

EPA Sample No.(INDA): INDAM03 Date Analyzed : 03/27/98

LAB Sample ID (INDA): INDAM03 Time Analyzed : 06:45

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	14.36	14.33	14.43	.020	.020	.0
gamma-BHC (Lindane)	16.47	16.43	16.53	.020	.020	.0
Heptachlor	17.65	17.61	17.71	.020	.020	.0
Endosulfan I	24.54	24.49	24.63	.020	.020	.0
Dieldrin	26.44	26.39	26.53	.040	.040	.0
Endrin	27.59	27.54	27.68	.041	.040	2.5
4,4'-DDD	29.70	29.64	29.78	.040	.040	.0
4,4'-DDT	30.56	30.51	30.65	.042	.040	5.0
Methoxychlor	33.73	33.68	33.82	.215	.200	7.5
Tetrachloro-m-xylene	10.21	10.17	10.27	.020	.020	.0
Decachlorobiphenyl	41.52	41.45	41.65	.041	.040	2.5

EPA Sample No.(INDB): INDBM03 Date Analyzed : 03/27/98

LAB Sample ID (INDB): INDBM03 Time Analyzed : 07:39

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	20.58	20.54	20.64	.020	.020	.0
delta-BHC	21.93	21.89	21.99	.021	.020	5.0
Aldrin	19.17	19.14	19.24	.021	.020	5.0
Heptachlor epoxide	23.01	22.95	23.09	.020	.020	.0
4,4'-DDE	25.53	25.48	25.62	.041	.040	2.5
Endosulfan II	30.10	30.04	30.18	.048	.040	20.0
Endosulfan Sulfate	33.95	33.89	34.03	.041	.040	2.5
Endrin ketone	36.01	35.96	36.10	.041	.040	2.5
Endrin aldehyde	32.29	32.24	32.38	.042	.040	5.0
alpha-Chlordane	25.13	25.08	25.22	.020	.020	.0
gamma-Chlordane	24.80	24.74	24.88	.020	.020	.0
Tetrachloro-m-xylene	10.22	10.17	10.27	.020	.020	.0
Decachlorobiphenyl	41.52	41.45	41.65	.040	.040	.0

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-50 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK08 Date Analyzed : 04/04/98

LAB Sample ID (PIBLK): PIBLK08 Time Analyzed : 05:58

EPA Sample No.(INDA): INDAM04 Date Analyzed : 04/04/98

LAB Sample ID (INDA): INDAM04 Time Analyzed : 06:52

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	11.09	11.03	11.13	.020	.020	.0
gamma-BHC (Lindane)	13.02	12.96	13.06	.019	.020	-5.0
Heptachlor	14.38	14.33	14.43	.020	.020	.0
Endosulfan I	21.35	21.28	21.42	.020	.020	.0
Dieldrin	23.21	23.13	23.27	.040	.040	.0
Endrin	25.07	24.99	25.13	.037	.040	-7.5
4,4'-DDD	26.00	25.91	26.05	.034	.040	-15.0
4,4'-DDT	27.50	27.42	27.56	.036	.040	-10.0
Methoxychlor	32.33	32.24	32.38	.158	.200	-21.0
Tetrachloro-m-xylene	8.43	8.37	8.47	.018	.020	-10.0
Decachlorobiphenyl	39.50	39.38	39.58	.037	.040	-7.5

EPA Sample No.(INDB): INDBM04 Date Analyzed : 04/04/98

LAB Sample ID (INDB): INDBM04 Time Analyzed : 07:46

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	14.23	14.18	14.28	.019	.020	-5.0
delta-BHC	15.55	15.49	15.59	.018	.020	-10.0
Aldrin	16.04	15.99	16.09	.021	.020	5.0
Heptachlor epoxide	19.37	19.30	19.44	.021	.020	5.0
4,4'-DDE	22.70	22.62	22.76	.036	.040	-10.0
Endosulfan II	26.52	26.45	26.59	.041	.040	2.5
Endosulfan Sulfate	29.10	29.02	29.16	.034	.040	-15.0
Endrin ketone	32.69	32.61	32.75	.037	.040	-7.5
Endrin aldehyde	28.22	28.14	28.28	.039	.040	-2.5
alpha-Chlordane	21.24	21.16	21.30	.021	.020	5.0
gamma-Chlordane	20.41	20.33	20.47	.021	.020	5.0
Tetrachloro-m-xylene	8.43	8.37	8.47	.017	.020	-15.0
Decachlorobiphenyl	39.51	39.38	39.58	.038	.040	-5.0

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-1701 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK08 Date Analyzed : 04/04/98

LAB Sample ID (PIBLK): PIBLK08 Time Analyzed : 05:58

EPA Sample No.(INDA): INDAM04 Date Analyzed : 04/04/98

LAB Sample ID (INDA): INDAM04 Time Analyzed : 06:52

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	14.37	14.33	14.43	.019	.020	-5.0
gamma-BHC (Lindane)	16.48	16.43	16.53	.020	.020	.0
Heptachlor	17.66	17.61	17.71	.021	.020	5.0
Endosulfan I	24.56	24.49	24.63	.020	.020	.0
Dieldrin	26.46	26.39	26.53	.039	.040	-2.5
Endrin	27.61	27.54	27.68	.037	.040	-7.5
4,4'-DDD	29.72	29.64	29.78	.037	.040	-7.5
4,4'-DDT	30.58	30.51	30.65	.039	.040	-2.5
Methoxychlor	33.76	33.68	33.82	.176	.200	-12.0
Tetrachloro-m-xylene	10.23	10.17	10.27	.020	.020	.0
Decachlorobiphenyl	41.55	41.45	41.65	.039	.040	-2.5

EPA Sample No.(INDB): INDBM04 Date Analyzed : 04/04/98

LAB Sample ID (INDB): INDBM04 Time Analyzed : 07:46

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	20.59	20.54	20.64	.020	.020	.0
delta-BHC	21.94	21.89	21.99	.019	.020	-5.0
Aldrin	19.18	19.14	19.24	.021	.020	5.0
Heptachlor epoxide	23.02	22.95	23.09	.021	.020	5.0
4,4'-DDE	25.55	25.48	25.62	.038	.040	-5.0
Endosulfan II	30.10	30.04	30.18	.041	.040	2.5
Endosulfan Sulfate	33.96	33.89	34.03	.035	.040	-12.5
Endrin ketone	36.03	35.96	36.10	.040	.040	.0
Endrin aldehyde	32.30	32.24	32.38	.039	.040	-2.5
alpha-Chlordane	25.14	25.08	25.22	.020	.020	.0
gamma-Chlordane	24.81	24.74	24.88	.021	.020	5.0
Tetrachloro-m-xylene	10.23	10.17	10.27	.020	.020	.0
Decachlorobiphenyl	41.56	41.45	41.65	.039	.040	-2.5

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-50 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK11 Date Analyzed : 04/06/98

LAB Sample ID (PIBLK): PIBLK11 Time Analyzed : 03:48

EPA Sample No.(INDA): INDAM05 Date Analyzed : 04/06/98

LAB Sample ID (INDA): INDAM05 Time Analyzed : 04:42

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	11.08	11.03	11.13	.019	.020	-5.0
gamma-BHC (Lindane)	13.01	12.96	13.06	.019	.020	-5.0
Heptachlor	14.37	14.33	14.43	.021	.020	5.0
Endosulfan I	21.35	21.28	21.42	.020	.020	.0
Dieldrin	23.20	23.13	23.27	.039	.040	-2.5
Endrin	25.06	24.99	25.13	.037	.040	-7.5
4,4'-DDD	25.99	25.91	26.05	.033	.040	-17.5
4,4'-DDT	27.49	27.42	27.56	.038	.040	-5.0
Methoxychlor	32.32	32.24	32.38	.174	.200	-13.0
Tetrachloro-m-xylene	8.42	8.37	8.47	.017	.020	-15.0
Decachlorobiphenyl	39.49	39.38	39.58	.038	.040	-5.0

EPA Sample No.(INDB): INDBM05 Date Analyzed : 04/06/98

LAB Sample ID (INDB): INDBM05 Time Analyzed : 05:36

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	14.23	14.18	14.28	.019	.020	-5.0
delta-BHC	15.54	15.49	15.59	.019	.020	-5.0
Aldrin	16.04	15.99	16.09	.021	.020	5.0
Heptachlor epoxide	19.37	19.30	19.44	.021	.020	5.0
4,4'-DDE	22.69	22.62	22.76	.037	.040	-7.5
Endosulfan II	26.52	26.45	26.59	.040	.040	.0
Endosulfan Sulfate	29.09	29.02	29.16	.038	.040	-5.0
Endrin ketone	32.68	32.61	32.75	.038	.040	-5.0
Endrin aldehyde	28.21	28.14	28.28	.039	.040	-2.5
alpha-Chlordane	21.23	21.16	21.30	.021	.020	5.0
gamma-Chlordane	20.40	20.33	20.47	.021	.020	5.0
Tetrachloro-m-xylene	8.43	8.37	8.47	.017	.020	-15.0
Decachlorobiphenyl	39.50	39.38	39.58	.038	.040	-5.0

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-1701 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK11 Date Analyzed : 04/06/98

LAB Sample ID (PIBLK): PIBLK11 Time Analyzed : 03:48

EPA Sample No.(INDA): INDAM05 Date Analyzed : 04/06/98

LAB Sample ID (INDA): INDAM05 Time Analyzed : 04:42

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	14.36	14.33	14.43	.020	.020	.0
gamma-BHC (Lindane)	16.47	16.43	16.53	.020	.020	.0
Heptachlor	17.65	17.61	17.71	.021	.020	5.0
Endosulfan I	24.55	24.49	24.63	.020	.020	.0
Dieldrin	26.45	26.39	26.53	.039	.040	-2.5
Endrin	27.60	27.54	27.68	.038	.040	-5.0
4,4'-DDD	29.71	29.64	29.78	.037	.040	-7.5
4,4'-DDT	30.57	30.51	30.65	.040	.040	.0
Methoxychlor	33.75	33.68	33.82	.194	.200	-3.0
Tetrachloro-m-xylene	10.22	10.17	10.27	.020	.020	.0
Decachlorobiphenyl	41.54	41.45	41.65	.039	.040	-2.5

EPA Sample No.(INDB): INDBM05 Date Analyzed : 04/06/98

LAB Sample ID (INDB): INDBM05 Time Analyzed : 05:36

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	20.58	20.54	20.64	.020	.020	.0
delta-BHC	21.93	21.89	21.99	.020	.020	.0
Aldrin	19.17	19.14	19.24	.021	.020	5.0
Heptachlor epoxide	23.01	22.95	23.09	.021	.020	5.0
4,4'-DDE	25.54	25.48	25.62	.039	.040	-2.5
Endosulfan II	30.10	30.04	30.18	.042	.040	5.0
Endosulfan Sulfate	33.95	33.89	34.03	.039	.040	-2.5
Endrin ketone	36.02	35.96	36.10	.043	.040	7.5
Endrin aldehyde	32.29	32.24	32.38	.040	.040	.0
alpha-Chlordane	25.14	25.08	25.22	.021	.020	5.0
gamma-Chlordane	24.80	24.74	24.88	.021	.020	5.0
Tetrachloro-m-xylene	10.22	10.17	10.27	.020	.020	.0
Decachlorobiphenyl	41.54	41.45	41.65	.039	.040	-2.5

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-50 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK13 Date Analyzed : 04/07/98

LAB Sample ID (PIBLK): PIBLK13 Time Analyzed : 04:22

EPA Sample No.(INDA): INDAM06 Date Analyzed : 04/07/98

LAB Sample ID (INDA): INDAM06 Time Analyzed : 05:16

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	11.08	11.03	11.13	.019	.020	-5.0
gamma-BHC (Lindane)	13.01	12.96	13.06	.019	.020	-5.0
Heptachlor	14.38	14.33	14.43	.020	.020	.0
Endosulfan I	21.35	21.28	21.42	.019	.020	-5.0
Dieldrin	23.20	23.13	23.27	.038	.040	-5.0
Endrin	25.07	24.99	25.13	.036	.040	-10.0
4,4'-DDD	25.98	25.91	26.05	.035	.040	-12.5
4,4'-DDT	27.49	27.42	27.56	.037	.040	-7.5
Methoxychlor	32.32	32.24	32.38	.178	.200	-11.0
Tetrachloro-m-xylene	8.43	8.37	8.47	.017	.020	-15.0
Decachlorobiphenyl	39.49	39.38	39.58	.036	.040	-10.0

EPA Sample No.(INDB): INDBM06 Date Analyzed : 04/07/98

LAB Sample ID (INDB): INDBM06 Time Analyzed : 06:10

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	14.23	14.18	14.28	.018	.020	-10.0
delta-BHC	15.55	15.49	15.59	.019	.020	-5.0
Aldrin	16.04	15.99	16.09	.020	.020	.0
Heptachlor epoxide	19.37	19.30	19.44	.020	.020	.0
4,4'-DDE	22.69	22.62	22.76	.037	.040	-7.5
Endosulfan II	26.52	26.45	26.59	.039	.040	-2.5
Endosulfan Sulfate	29.09	29.02	29.16	.039	.040	-2.5
Endrin ketone	32.68	32.61	32.75	.036	.040	-10.0
Endrin aldehyde	28.21	28.14	28.28	.038	.040	-5.0
alpha-Chlordane	21.23	21.16	21.30	.020	.020	.0
gamma-Chlordane	20.40	20.33	20.47	.020	.020	.0
Tetrachloro-m-xylene	8.43	8.37	8.47	.017	.020	-15.0
Decachlorobiphenyl	39.49	39.38	39.58	.035	.040	-12.5

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-1701 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK13 Date Analyzed : 04/07/98

LAB Sample ID (PIBLK): PIBLK13 Time Analyzed : 04:22

EPA Sample No.(INDA): INDAM06 Date Analyzed : 04/07/98

LAB Sample ID (INDA): INDAM06 Time Analyzed : 05:16

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	14.36	14.33	14.43	.020	.020	.0
gamma-BHC (Lindane)	16.47	16.43	16.53	.020	.020	.0
Heptachlor	17.65	17.61	17.71	.020	.020	.0
Endosulfan I	24.55	24.49	24.63	.023	.020	15.0
Dieldrin	26.45	26.39	26.53	.039	.040	-2.5
Endrin	27.60	27.54	27.68	.039	.040	-2.5
4,4'-DDD	29.70	29.64	29.78	.037	.040	-7.5
4,4'-DDT	30.57	30.51	30.65	.047	.040	17.5
Methoxychlor	33.74	33.68	33.82	.194	.200	-3.0
Tetrachloro-m-xylene	10.22	10.17	10.27	.020	.020	.0
Decachlorobiphenyl	41.53	41.45	41.65	.039	.040	-2.5

EPA Sample No.(INDB): INDBM06 Date Analyzed : 04/07/98

LAB Sample ID (INDB): INDBM06 Time Analyzed : 06:10

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	20.58	20.54	20.64	.020	.020	.0
delta-BHC	21.93	21.89	21.99	.021	.020	5.0
Aldrin	19.18	19.14	19.24	.020	.020	.0
Heptachlor epoxide	23.01	22.95	23.09	.021	.020	5.0
4,4'-DDE	25.54	25.48	25.62	.038	.040	-5.0
Endosulfan II	30.10	30.04	30.18	.039	.040	-2.5
Endosulfan Sulfate	33.95	33.89	34.03	.039	.040	-2.5
Endrin ketone	36.02	35.96	36.10	.041	.040	2.5
Endrin aldehyde	32.29	32.24	32.38	.038	.040	-5.0
alpha-Chlordane	25.14	25.08	25.22	.020	.020	.0
gamma-Chlordane	24.80	24.74	24.88	.020	.020	.0
Tetrachloro-m-xylene	10.22	10.17	10.27	.020	.020	.0
Decachlorobiphenyl	41.54	41.45	41.65	.038	.040	-5.0

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-50 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK16 Date Analyzed : 04/09/98

LAB Sample ID (PIBLK): PIBLK16 Time Analyzed : 04:21

EPA Sample No.(INDA): INDAM07 Date Analyzed : 04/09/98

LAB Sample ID (INDA): INDAM07 Time Analyzed : 05:15

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	11.08	11.03	11.13	.019	.020	-5.0
gamma-BHC (Lindane)	13.01	12.96	13.06	.019	.020	-5.0
Heptachlor	14.37	14.33	14.43	.020	.020	.0
Endosulfan I	21.34	21.28	21.42	.020	.020	.0
Dieldrin	23.20	23.13	23.27	.039	.040	-2.5
Endrin	25.06	24.99	25.13	.037	.040	-7.5
4,4'-DDD	26.01	25.91	26.05	.030	.040	-25.0
4,4'-DDT	27.49	27.42	27.56	.036	.040	-10.0
Methoxychlor	32.33	32.24	32.38	.153	.200	-23.5
Tetrachloro-m-xylene	8.42	8.37	8.47	.017	.020	-15.0
Decachlorobiphenyl	39.49	39.38	39.58	.039	.040	-2.5

EPA Sample No.(INDB): INDBM07 Date Analyzed : 04/09/98

LAB Sample ID (INDB): INDBM07 Time Analyzed : 06:09

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	14.23	14.18	14.28	.017	.020	-15.0
delta-BHC	15.55	15.49	15.59	.017	.020	-15.0
Aldrin	16.04	15.99	16.09	.020	.020	.0
Heptachlor epoxide	19.36	19.30	19.44	.020	.020	.0
4,4'-DDE	22.69	22.62	22.76	.035	.040	-12.5
Endosulfan II	26.52	26.45	26.59	.039	.040	-2.5
Endosulfan Sulfate	29.09	29.02	29.16	.036	.040	-10.0
Endrin ketone	32.68	32.61	32.75	.036	.040	-10.0
Endrin aldehyde	28.21	28.14	28.28	.038	.040	-5.0
alpha-Chlordane	21.23	21.16	21.30	.020	.020	.0
gamma-Chlordane	20.40	20.33	20.47	.020	.020	.0
Tetrachloro-m-xylene	8.42	8.37	8.47	.017	.020	-15.0
Decachlorobiphenyl	39.50	39.38	39.58	.038	.040	-5.0

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-1701 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

EPA Sample No.(PIBLK): PIBLK16 Date Analyzed : 04/09/98

LAB Sample ID (PIBLK): PIBLK16 Time Analyzed : 04:21

EPA Sample No.(INDA): INDAM07 Date Analyzed : 04/09/98

LAB Sample ID (INDA): INDAM07 Time Analyzed : 05:15

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	14.36	14.33	14.43	.019	.020	-5.0
gamma-BHC (Lindane)	16.47	16.43	16.53	.019	.020	-5.0
Heptachlor	17.64	17.61	17.71	.020	.020	.0
Endosulfan I	24.54	24.49	24.63	.018	.020	-10.0
Dieldrin	26.44	26.39	26.53	.040	.040	.0
Endrin	27.59	27.54	27.68	.036	.040	-10.0
4,4'-DDD	29.71	29.64	29.78	.036	.040	-10.0
4,4'-DDT	30.56	30.51	30.65	.040	.040	.0
Methoxychlor	33.75	33.68	33.82	.175	.200	-12.5
Tetrachloro-m-xylene	10.22	10.17	10.27	.020	.020	.0
Decachlorobiphenyl	41.53	41.45	41.65	.039	.040	-2.5

EPA Sample No.(INDB): INDBM07 Date Analyzed : 04/09/98

LAB Sample ID (INDB): INDBM07 Time Analyzed : 06:09

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	20.57	20.54	20.64	.019	.020	-5.0
delta-BHC	21.92	21.89	21.99	.018	.020	-10.0
Aldrin	19.17	19.14	19.24	.021	.020	5.0
Heptachlor epoxide	23.00	22.95	23.09	.020	.020	.0
4,4'-DDE	25.54	25.48	25.62	.036	.040	-10.0
Endosulfan II	30.09	30.04	30.18	.040	.040	.0
Endosulfan Sulfate	33.94	33.89	34.03	.036	.040	-10.0
Endrin ketone	36.01	35.96	36.10	.040	.040	.0
Endrin aldehyde	32.28	32.24	32.38	.039	.040	-2.5
alpha-Chlordane	25.13	25.08	25.22	.020	.020	.0
gamma-Chlordane	24.79	24.74	24.88	.020	.020	.0
Tetrachloro-m-xylene	10.22	10.17	10.27	.019	.020	-5.0
Decachlorobiphenyl	41.54	41.45	41.65	.038	.040	-5.0

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GC Column: RTX-50 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

Instrument ID: 5890 8

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 8.42 DCB: 39.48

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESCO1	RESC01	03/24/98	22:52	8.42	39.47
02	PEM01	PEM01	03/24/98	23:46	8.42	39.48
03	AR166001	AR166001	03/25/98	00:40	8.43	39.48
04	AR122101	AR122101	03/25/98	01:34	8.42	39.49
05	AR123201	AR123201	03/25/98	02:28	8.43	39.49
06	AR124201	AR124201	03/25/98	03:22	8.43	39.49
07	AR124801	AR124801	03/25/98	04:16	8.43	39.49
08	AR125401	AR125401	03/25/98	05:10	8.42	39.48
09	TOXAPH01	TOXAPH01	03/25/98	06:03	8.43	39.49
10	INDAL01	INDAL01	03/25/98	06:58	8.43	39.49
11	INDBL01	INDBL01	03/25/98	07:52	8.43	39.49
12	INDAM01	INDAM01	03/25/98	08:45	8.42	39.48
13	INDBM01	INDBM01	03/25/98	09:39	8.42	39.48
14	INDAH01	INDAH01	03/25/98	10:33	8.42	39.48
15	INDBH01	INDBH01	03/25/98	11:27	8.42	39.47
16	PIBLK01	PIBLK01	03/25/98	12:53	8.44	39.49
17	PEM02	PEM02	03/25/98	13:47	8.42	39.47
18	ZZZZZ		03/25/98	14:41	*	*
19	ZZZZZ		03/25/98	15:34	*	*
20	ZZZZZ		03/25/98	16:29	*	*
21	ZZZZZ		03/25/98	17:23	*	*
22	ZZZZZ		03/25/98	18:17	*	*
23	ZZZZZ		03/25/98	19:11	*	*
24	ZZZZZ		03/25/98	20:05	*	*
25	ZZZZZ		03/25/98	20:59	*	*
26	ZZZZZ		03/25/98	21:53	*	*
27	PIBLK02	PIBLK02	03/25/98	23:54	8.42	39.47
28	INDAM02	INDAM02	03/26/98	00:48	8.42	39.47
29	INDBM02	INDBM02	03/26/98	01:42	8.42	39.48
30	PIBLK03	PIBLK03	03/26/98	16:55	8.42	39.47
31	PEM03	PEM03	03/26/98	17:49	8.41	39.46
32	ZZZZZ		03/26/98	19:03	*	*

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.: CD-01

GC Column: RTX-50 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

Instrument ID: 5890 8

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 8.42 DCB: 39.48

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	ZZZZZ		03/26/98	19:57	*	*
02	ZZZZZ		03/26/98	20:51	*	*
03	ZZZZZ		03/26/98	21:45	*	*
04	ZZZZZ		03/26/98	22:39	*	*
05	ZZZZZ		03/26/98	23:33	*	*
06	ZZZZZ		03/27/98	00:27	*	*
07	ZZZZZ		03/27/98	01:21	*	*
08	ZZZZZ		03/27/98	02:15	*	*
09	ZZZZZ		03/27/98	03:09	*	*
10	ZZZZZ		03/27/98	04:03	*	*
11	ZZZZZ		03/27/98	04:57	*	*
12	PIBLK04	PIBLK04	03/27/98	05:51	8.42	39.47
13	INDAM03	INDAM03	03/27/98	06:45	8.42	39.46
14	INDBM03	INDBM03	03/27/98	07:39	8.42	39.47
15	AR16602	AR166002	03/27/98	08:33	8.42	39.47
16	ZZZZZ		03/27/98	16:38	*	*
17	ZZZZZ		03/27/98	17:32	*	*
18	PIBLK05	PIBLK05	03/27/98	18:26	8.40	39.44
19	ZZZZZ		03/27/98	19:20	*	*
20	PIBLK06	PIBLK06	03/30/98	10:57	8.45	39.50
21	PEM05	PEM05	03/30/98	11:51	8.44	39.48
22	PIBLK07	PIBLK07	04/03/98	18:16	8.45	39.50
23	PEM06	PEM06	04/03/98	19:10	8.42	39.47
24	ZZZZZ		04/03/98	20:04	*	*
25	ZZZZZ		04/03/98	20:58	*	*
26	ZZZZZ		04/03/98	21:52	*	*
27	ZZZZZ		04/03/98	22:46	*	*
28	ZZZZZ		04/03/98	23:40	*	*
29	ZZZZZ		04/04/98	00:34	*	*
30	ZZZZZ		04/04/98	01:28	*	*
31	ZZZZZ		04/04/98	02:22	*	*
32	ZZZZZ		04/04/98	03:16	*	*

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.: CD-01

GC Column: RTX-50 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

Instrument ID: 5890 8

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 8.42 DCB: 39.48

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#
01	ZZZZZ		04/04/98	04:10		*		*
02	ZZZZZ		04/04/98	05:04		*		*
03	PIBLK08	PIBLK08	04/04/98	05:58	8.43		39.52	
04	INDAM04	INDAM04	04/04/98	06:52	8.43		39.50	
05	INDBM04	INDBM04	04/04/98	07:46	8.43		39.51	
06	ZZZZZ		04/04/98	08:40		*		*
07	ZZZZZ		04/04/98	09:34		*		*
08	ZZZZZ		04/04/98	10:28		*		*
09	ZZZZZ		04/04/98	11:22		*		*
10	ZZZZZ		04/04/98	12:16		*		*
11	ZZZZZ		04/04/98	13:10		*		*
12	ZZZZZ		04/04/98	14:10		*		*
13	ZZZZZ		04/04/98	14:58		*		*
14	ZZZZZ		04/04/98	15:52		*		*
15	PIBLK09	PIBLK09	04/04/98	20:44	8.43		39.50	
16	PEM07	PEM07	04/04/98	21:38	8.42		39.49	
17	PIBLK10	PIBLK10	04/05/98	17:00	8.45		39.51	
18	PEM08	PEM08	04/05/98	17:54	8.43		39.48	
19	AR166003	AR166003	04/05/98	18:48	8.42		39.49	
20	AR125402	AR125402	04/05/98	19:42	8.42		39.49	
21	ZZZZZ		04/05/98	20:36		*		*
22	ZZZZZ		04/05/98	21:31		*		*
23	ZZZZZ		04/05/98	22:25		*		*
24	ZZZZZ		04/05/98	23:19		*		*
25	ZZZZZ		04/06/98	00:13		*		*
26	ZZZZZ		04/06/98	01:07		*		*
27	PIBLK11	PIBLK11	04/06/98	03:48	8.42		39.50	
28	INDAM05	INDAM05	04/06/98	04:42	8.42		39.49	
29	INDBM05	INDBM05	04/06/98	05:36	8.43		39.50	
30	PIBLK12	PIBLK12	04/06/98	15:46	8.45		39.51	
31	PEM09	PEM09	04/06/98	16:40	8.42		39.48	
32	ZZZZZ		04/06/98	17:34		*		*

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.: CD-01

GC Column: RTX-50 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

Instrument ID: 5890 8

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 8.42 DCB: 39.48

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	ZZZZZ		04/06/98	18:28	*	*
02	ZZZZZ		04/06/98	19:22	*	*
03	ZZZZZ		04/06/98	20:16	*	*
04	ZZZZZ		04/06/98	21:10	*	*
05	ZZZZZ		04/06/98	22:04	*	*
06	ZZZZZ		04/06/98	22:58	*	*
07	ZZZZZ		04/06/98	23:52	*	*
08	ZZZZZ		04/07/98	00:46	*	*
09	ZZZZZ		04/07/98	01:40	*	*
10	ZZZZZ		04/07/98	02:34	*	*
11	ZZZZZ		04/07/98	03:28	*	*
12	PIBLK13	PIBLK13	04/07/98	04:22	8.43	39.49
13	INDAM06	INDAM06	04/07/98	05:16	8.43	39.49
14	INDBM06	INDBM06	04/07/98	06:10	8.43	39.49
15	PIBLK14	PIBLK14	04/07/98	17:48	8.44	39.50
16	PEM10	PEM10	04/07/98	18:42	8.42	39.47
17	ZZZZZ		04/07/98	19:36	*	*
18	ZZZZZ		04/07/98	20:30	*	*
19	ZZZZZ		04/07/98	21:24	*	*
20	PBLK15	PBLK15	04/07/98	22:18	8.41	39.46
21	ZZZZZ		04/07/98	23:12	*	*
22	ZZZZZ		04/08/98	00:06	*	*
23	ZZZZZ		04/08/98	01:00	*	*
24	ZZZZZ		04/08/98	01:54	*	*
25	ZZZZZ		04/08/98	02:48	*	*
26	CD-02	286622	04/08/98	03:42	8.42	39.47
27	CD-03	286623	04/08/98	04:36	8.42	39.47
28	CD-04	286624	04/08/98	05:30	8.42	39.47
29	PIBLK15	PIBLK15	04/08/98	12:39	8.43	39.48
30	PEM11	PEM11	04/08/98	13:33	8.42	39.46
31	CD-05	286625	04/08/98	14:27	8.42	39.46
32	CD-06	286626	04/08/98	15:22	8.42	39.46

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.: CD-01

GC Column: RTX-50 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

Instrument ID: 5890 8

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 8.42 DCB: 39.48

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	CD-07	286627	04/08/98	16:16	8.41	39.46
02	CD-08	286628	04/08/98	17:10	8.41	39.45
03	CD-09	286629	04/08/98	18:04	8.41	39.45
04	CD-10	286630	04/08/98	18:58	8.41	39.45
05	CD-11	286631	04/08/98	19:52	8.41	39.45
06	CD-12	286632	04/08/98	20:46	8.42	39.46
07	CD-12MS	286632	04/08/98	21:39	8.42	39.46
08	CD-12MSD	286632	04/08/98	22:33	8.42	39.46
09	PIBLK16	PIBLK16	04/09/98	04:21	8.43	39.49
10	INDAM07	INDAM07	04/09/98	05:15	8.42	39.49
11	INDBM07	INDBM07	04/09/98	06:09	8.42	39.50
12	CD-13	286633	04/09/98	07:03	8.42	39.47
13	CD-01	286621	04/09/98	07:57	8.42	39.47
14	AR166004	AR166004	04/09/98	12:22	8.42	39.47
15	AR125403	AR125403	04/09/98	13:16	8.42	39.48
16	PIBLK17	PIBLK17	04/09/98	18:04	8.45	39.52
17	PEM12	PEM12	04/09/98	18:58	8.42	39.47
18						
19						
20						
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.: CD-01

GC Column: RTX-1701 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

Instrument ID: 5890 8

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 10.22 DCB: 41.55

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESCO1	RESC01	03/24/98	22:52	10.22	41.54
02	PEM01	PEM01	03/24/98	23:46	10.22	41.55
03	AR166001	AR166001	03/25/98	00:40	10.23	41.55
04	AR122101	AR122101	03/25/98	01:34	10.22	41.55
05	AR123201	AR123201	03/25/98	02:28	10.23	41.55
06	AR124201	AR124201	03/25/98	03:22	10.23	41.55
07	AR124801	AR124801	03/25/98	04:16	10.23	41.55
08	AR125401	AR125401	03/25/98	05:10	10.22	41.55
09	TOXAPH01	TOXAPH01	03/25/98	06:03	10.23	41.56
10	INDAL01	INDAL01	03/25/98	06:58	10.23	41.56
11	INDBL01	INDBL01	03/25/98	07:52	10.23	41.55
12	INDAM01	INDAM01	03/25/98	08:45	10.22	41.55
13	INDBM01	INDBM01	03/25/98	09:39	10.22	41.55
14	INDAH01	INDAH01	03/25/98	10:33	10.22	41.54
15	INDBH01	INDBH01	03/25/98	11:27	10.22	41.54
16	PIBLK01	PIBLK01	03/25/98	12:53	10.23	41.55
17	PEM02	PEM02	03/25/98	13:47	10.22	41.53
18	ZZZZZ		03/25/98	14:41	*	*
19	ZZZZZ		03/25/98	15:34	*	*
20	ZZZZZ		03/25/98	16:29	*	*
21	ZZZZZ		03/25/98	17:23	*	*
22	ZZZZZ		03/25/98	18:17	*	*
23	ZZZZZ		03/25/98	19:11	*	*
24	ZZZZZ		03/25/98	20:05	*	*
25	ZZZZZ		03/25/98	20:59	*	*
26	ZZZZZ		03/25/98	21:53	*	*
27	PIBLK02	PIBLK02	03/25/98	23:54	10.22	41.53
28	INDAM02	INDAM02	03/26/98	00:48	10.22	41.54
29	INDBM02	INDBM02	03/26/98	01:42	10.22	41.54
30	PIBLK03	PIBLK03	03/26/98	16:55	10.21	41.52
31	PEM03	PEM03	03/26/98	17:49	10.20	41.51
32	ZZZZZ		03/26/98	19:03	*	*

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.: CD-01

GC Column: RTX-1701 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

Instrument ID: 5890 8

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 10.22 DCB: 41.55

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	ZZZZZ		03/26/98	19:57	*	*
02	ZZZZZ		03/26/98	20:51	*	*
03	ZZZZZ		03/26/98	21:45	*	*
04	ZZZZZ		03/26/98	22:39	*	*
05	ZZZZZ		03/26/98	23:33	*	*
06	ZZZZZ		03/27/98	00:27	*	*
07	ZZZZZ		03/27/98	01:21	*	*
08	ZZZZZ		03/27/98	02:15	*	*
09	ZZZZZ		03/27/98	03:09	*	*
10	ZZZZZ		03/27/98	04:03	*	*
11	ZZZZZ		03/27/98	04:57	*	*
12	PIBLK04	PIBLK04	03/27/98	05:51	10.21	41.53
13	INDAM03	INDAM03	03/27/98	06:45	10.21	41.52
14	INDBM03	INDBM03	03/27/98	07:39	10.22	41.52
15	AR166002	AR166002	03/27/98	08:33	10.22	41.52
16	ZZZZZ		03/27/98	16:38	*	*
17	ZZZZZ		03/27/98	17:32	*	*
18	PIBLK05	PIBLK05	03/27/98	18:26	10.19	41.49
19	ZZZZZ		03/27/98	19:20	*	*
20	PIBLK06	PIBLK06	03/30/98	10:57	10.23	41.55
21	PEM05	PEM05	03/30/98	11:51	10.22	41.53
22	PIBLK07	PIBLK07	04/03/98	18:16	10.23	41.55
23	PEM06	PEM06	04/03/98	19:10	10.22	41.52
24	ZZZZZ		04/03/98	20:04	*	*
25	ZZZZZ		04/03/98	20:58	*	*
26	ZZZZZ		04/03/98	21:52	*	*
27	ZZZZZ		04/03/98	22:46	*	*
28	ZZZZZ		04/03/98	23:40	*	*
29	ZZZZZ		04/04/98	00:34	*	*
30	ZZZZZ		04/04/98	01:28	*	*
31	ZZZZZ		04/04/98	02:22	*	*
32	ZZZZZ		04/04/98	03:16	*	*

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.: CD-01

GC Column: RTX-1701 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

Instrument ID: 5890 8

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 10.22 DCB: 41.55

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#
01	ZZZZZ		04/04/98	04:10		*		*
02	ZZZZZ		04/04/98	05:04		*		*
03	PIBLK08	PIBLK08	04/04/98	05:58	10.23		41.56	
04	INDAM04	INDAM04	04/04/98	06:52	10.23		41.55	
05	INDBM04	INDBM04	04/04/98	07:46	10.23		41.56	
06	ZZZZZ		04/04/98	08:40		*		*
07	ZZZZZ		04/04/98	09:34		*		*
08	ZZZZZ		04/04/98	10:28		*		*
09	ZZZZZ		04/04/98	11:22		*		*
10	ZZZZZ		04/04/98	12:16		*		*
11	ZZZZZ		04/04/98	13:10		*		*
12	ZZZZZ		04/04/98	14:10		*		*
13	ZZZZZ		04/04/98	14:58		*		*
14	ZZZZZ		04/04/98	15:52		*		*
15	PIBLK09	PIBLK09	04/04/98	20:44	10.22		41.54	
16	PEM07	PEM07	04/04/98	21:38	10.22		41.54	
17	PIBLK10	PIBLK10	04/05/98	17:00	10.23		41.56	
18	PEM08	PEM08	04/05/98	17:54	10.22		41.53	
19	AR166003	AR166003	04/05/98	18:48	10.22		41.53	
20	AR125402	AR125402	04/05/98	19:42	10.22		41.54	
21	ZZZZZ		04/05/98	20:36		*		*
22	ZZZZZ		04/05/98	21:31		*		*
23	ZZZZZ		04/05/98	22:25		*		*
24	ZZZZZ		04/05/98	23:19		*		*
25	ZZZZZ		04/06/98	00:13		*		*
26	ZZZZZ		04/06/98	01:07		*		*
27	PIBLK11	PIBLK11	04/06/98	03:48	10.22		41.54	
28	INDAM05	INDAM05	04/06/98	04:42	10.22		41.54	
29	INDBM05	INDBM05	04/06/98	05:36	10.22		41.54	
30	PIBLK12	PIBLK12	04/06/98	15:46	10.23		41.55	
31	PEM09	PEM09	04/06/98	16:40	10.22		41.52	
32	ZZZZZ		04/06/98	17:34		*		*

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.: CD-01

GC Column: RTX-1701 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

Instrument ID: 5890 8

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 10.22 DCB: 41.55

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#
01	ZZZZZ		04/06/98	18:28		*		*
02	ZZZZZ		04/06/98	19:22		*		*
03	ZZZZZ		04/06/98	20:16		*		*
04	ZZZZZ		04/06/98	21:10		*		*
05	ZZZZZ		04/06/98	22:04		*		*
06	ZZZZZ		04/06/98	22:58		*		*
07	ZZZZZ		04/06/98	23:52		*		*
08	ZZZZZ		04/07/98	00:46		*		*
09	ZZZZZ		04/07/98	01:40		*		*
10	ZZZZZ		04/07/98	02:34		*		*
11	ZZZZZ		04/07/98	03:28		*		*
12	PIBLK13	PIBLK13	04/07/98	04:22	10.22		41.54	
13	INDAM06	INDAM06	04/07/98	05:16	10.22		41.53	
14	INDBM06	INDBM06	04/07/98	06:10	10.22		41.54	
15	PIBLK14	PIBLK14	04/07/98	17:48	10.23		41.54	
16	PEM10	PEM10	04/07/98	18:42	10.21		41.51	
17	ZZZZZ		04/07/98	19:36		*		*
18	ZZZZZ		04/07/98	20:30		*		*
19	ZZZZZ		04/07/98	21:24		*		*
20	PBLK15	PBLK15	04/07/98	22:18	10.21		41.50	
21	ZZZZZ		04/07/98	23:12		*		*
22	ZZZZZ		04/08/98	00:06		*		*
23	ZZZZZ		04/08/98	01:00		*		*
24	ZZZZZ		04/08/98	01:54		*		*
25	ZZZZZ		04/08/98	02:48		*		*
26	CD-02	286622	04/08/98	03:42	10.22		41.52	
27	CD-03	286623	04/08/98	04:36	10.22		41.52	
28	CD-04	286624	04/08/98	05:30	10.22		41.52	
29	PIBLK15	PIBLK15	04/08/98	12:39	10.22		41.52	
30	PEM11	PEM11	04/08/98	13:33	10.21		41.50	
31	CD-05	286625	04/08/98	14:27	10.21		41.51	
32	CD-06	286626	04/08/98	15:22	10.21		41.50	

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.: CD-01

GC Column: RTX-1701 ID: .53 (mm) Init. Calib. Date(s): 03/25/98 03/25/98

Instrument ID: 5890 8

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 10.22 DCB: 41.55

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	CD-07	286627	04/08/98	16:16	10.20	41.50
02	CD-08	286628	04/08/98	17:10	10.20	41.49
03	CD-09	286629	04/08/98	18:04	10.20	41.50
04	CD-10	286630	04/08/98	18:58	10.20	41.49
05	CD-11	286631	04/08/98	19:52	10.21	41.50
06	CD-12	286632	04/08/98	20:46	10.21	41.50
07	CD-12MS	286632	04/08/98	21:39	10.21	41.50
08	CD-12MSD	286632	04/08/98	22:33	10.21	41.50
09	PIBLK16	PIBLK16	04/09/98	04:21	10.22	41.53
10	INDAM07	INDAM07	04/09/98	05:15	10.22	41.53
11	INDBM07	INDBM07	04/09/98	06:09	10.22	41.54
12	CD-13	286633	04/09/98	07:03	10.22	41.51
13	CD-01	286621	04/09/98	07:57	10.22	41.51
14	AR166004	AR166004	04/09/98	12:22	10.22	41.51
15	AR125403	AR125403	04/09/98	13:16	10.21	41.51
16	PIBLK17	PIBLK17	04/09/98	18:04	10.23	41.55
17	PEM12	PEM12	04/09/98	18:58	10.22	41.51
18						
19						
20						
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.: CD-01

Florisil Cartridge Lot Number: SP1045QQ Date of Analysis: 03/05/97

GC Column(1): RTX-50 ID: .53 (mm) GC Column(2): RTX-1701 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	PBLK15	PBLK15	04/07/98	04/07/98
02	CD-02	286622	04/08/98	04/08/98
03	CD-03	286623	04/08/98	04/08/98
04	CD-04	286624	04/08/98	04/08/98
05	CD-05	286625	04/08/98	04/08/98
06	CD-06	286626	04/08/98	04/08/98
07	CD-07	286627	04/08/98	04/08/98
08	CD-08	286628	04/08/98	04/08/98
09	CD-09	286629	04/08/98	04/08/98
10	CD-10	286630	04/08/98	04/08/98
11	CD-11	286631	04/08/98	04/08/98
12	CD-12	286632	04/08/98	04/08/98
13	CD-12MS	286632	04/08/98	04/08/98
14	CD-12MSD	286632	04/08/98	04/08/98
15	CD-13	286633	04/09/98	04/09/98
16	CD-01	286621	04/09/98	04/09/98
17				
18				
19				
20				
21				
22				
23				
24				
25				

9B
PESTICIDE GPC CALIBRATION

Lab Name: ICM, Inc. Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

GPC Column: ENVIROBEAD-XS3 Calibration Date: 03/29/98

GC Column(1): RTX-50 ID: .53 (mm) GC Column(2): RTX-1701 ID: .53 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
gamma-BHC (Lindane)	.025	.025	100	80-110
Heptachlor	.025	.025	100	80-110
Aldrin	.025	.027	108	80-110
Dieldrin	.050	.055	110	80-110
Endrin	.050	.043	86	80-110
4,4'-DDT	.050	.051	102	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	PBLK15	PBLK15	04/07/98	04/07/98
01	CD-02	286622	04/08/98	04/08/98
02	CD-03	286623	04/08/98	04/08/98
03	CD-04	286624	04/08/98	04/08/98
04	CD-05	286625	04/08/98	04/08/98
05	CD-06	286626	04/08/98	04/08/98
06	CD-07	286627	04/08/98	04/08/98
07	CD-08	286628	04/08/98	04/08/98
08	CD-09	286629	04/08/98	04/08/98
09	CD-10	286630	04/08/98	04/08/98
10	CD-11	286631	04/08/98	04/08/98
11	CD-12	286632	04/08/98	04/08/98
12	CD-12MS	286632	04/08/98	04/08/98
13	CD-12MSD	286632	04/08/98	04/08/98
14	CD-13	286633	04/09/98	04/09/98
15	CD-01	286621	04/09/98	04/09/98
16				
17				
18				
19				

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

CD-12MS

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

Lab Sample ID: 286632 Date(s) Analyzed: 04/08/98 04/08/98

Instrument ID (1): 5890 8 Instrument ID (2): 5890 8

GC Column(1): RTX-50 ID: .53 (mm) GC Column(2): RTX-1701 ID: .53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	13.00	12.96	13.06	24.	4.2
	2	16.45	16.43	16.53	25.	
Heptachlor	1	14.36	14.33	14.43	26.	8.3
	2	17.63	17.61	17.71	24.	
Aldrin	1	16.02	15.99	16.09	30.	6.7
	2	19.16	19.14	19.24	32.	
Dieldrin	1	23.19	23.13	23.27	54.	5.6
	2	26.43	26.39	26.53	57.	
Endrin	1	25.05	24.99	25.13	48.	8.3
	2	27.58	27.54	27.68	52.	
4,4'-DDT	1	27.47	27.42	27.56	63.	3.2
	2	30.54	30.51	30.65	65.	
	1					
	2					
	1					
	2					

FORM X PEST-1

OLM03.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

CD-12MSD

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

Lab Sample ID: 286632 Date(s) Analyzed: 04/08/98 04/08/98

Instrument ID (1): 5890 8 Instrument ID (2): 5890 8

GC Column(1): RTX-50 ID: .53 (mm) GC Column(2): RTX-1701 ID: .53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	13.00	12.96	13.06	26.	7.7
	2	16.45	16.43	16.53	28.	
Heptachlor	1	14.37	14.33	14.43	28.	7.7
	2	17.63	17.61	17.71	26.	
Aldrin	1	16.03	15.99	16.09	34.	5.9
	2	19.16	19.14	19.24	36.	
Dieldrin	1	23.19	23.13	23.27	59.	8.5
	2	26.43	26.39	26.53	64.	
Endrin	1	25.05	24.99	25.13	52.	9.6
	2	27.58	27.54	27.68	57.	
4,4'-DDT	1	27.47	27.42	27.56	68.	4.4
	2	30.55	30.51	30.65	71.	
	1					
	2					
	1					
	2					

FORM X PEST-1

OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CD-04

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

Lab Sample ID: 286624 Date(s) Analyzed: 04/08/98 04/08/98

Instrument ID (1): 5890 8 Instrument ID (2): 5890 8

GC Column(1): RTX-50 ID: .53 (mm) GC Column(2): RTX-1701 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1260_ COLUMN 1	1	24.72	24.67	24.81	120.	150.	
	2	25.41	25.35	25.49	180.		
	3	29.73	29.67	29.81	150.		
	4	30.69	30.63	30.77	130.		
	5	32.92	32.88	33.02	170.		
COLUMN 2	1	26.93	26.88	27.02	120.	140.	7.1
	2	28.09	28.04	28.18	210.		
	3	31.80	31.77	31.91	170.		
	4	33.26	33.21	33.35	120.		
	5	35.12	35.08	35.22	86.		
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

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CD-07

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

Lab Sample ID: 286627 Date(s) Analyzed: 04/08/98 04/08/98

Instrument ID (1): 5890 8 Instrument ID (2): 5890 8

GC Column(1): RTX-50 ID: .53 (mm) GC Column(2): RTX-1701 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1260_	1	24.71	24.67	24.81	73.		
	2	25.39	25.35	25.49	120.		
	3	29.72	29.67	29.81	82.		
COLUMN 1	4	30.69	30.63	30.77	110.	97.	
	5	32.91	32.88	33.02	99.		
	1	26.92	26.88	27.02	79.		22.8
	2	28.08	28.04	28.18	130.		
	3	31.79	31.77	31.91	91.		
COLUMN 2	4	33.25	33.21	33.35	62.	79.	
	5	35.11	35.08	35.22	31.		
	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.

CD-08

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CD-01

Lab Sample ID: 286628 Date(s) Analyzed: 04/08/98 04/08/98

Instrument ID (1): 5890 8 Instrument ID (2): 5890 8

GC Column(1): RTX-50 ID: .53 (mm) GC Column(2): RTX-1701 ID: .53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1260_ COLUMN 1	1	24.71	24.67	24.81	57.	78.	
	2	25.39	25.35	25.49	100.		
	3	29.71	29.67	29.81	66.		
	4	30.68	30.63	30.77	80.		
	5	32.91	32.88	33.02	81.		
COLUMN 2	1	26.91	26.88	27.02	59.	66.	18.2
	2	28.07	28.04	28.18	110.		
	3	31.77	31.77	31.91	80.		
	4	33.24	33.21	33.35	56.		
	5	35.10	35.08	35.22	23.		
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

FORM X PEST-2 OLM03.0

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : F:\1\DATA_H\HA3571.D\ECD1A.CH Vial: 1
Signal #2 : F:\1\DATA_H\HA3571.D\ECD2B.CH
Acq On : 24 Mar 98 22:52 Operator:
Sample : RESC01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 11:05 1998 Quant Results File: CLP_8.RES

Quant Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: F:\1\DATA_H\HA3573.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.42	10.22	463760	224690	32.299m	16.723 # 0.02
Spiked Amount 40.000 Range 60 - 150 Recovery =					80.75%	41.81%#
22) SA Decachlorobiphen	39.47	41.54	787757	968618	40.795	36.810 0.04
Spiked Amount 40.000 Range 60 - 150 Recovery =					101.99%	92.03%
Target Compounds						
9) A Endosulfan I	21.35	24.56f	119569	113211	8.795	7.860m 0.01
10) B gamma-Chlordane	20.40	24.81	127102	127119	8.919	7.919
12) B 4,4'-DDE	22.68	25.54	215382	189395	19.023	16.653 0.02
13) MA Dieldrin	23.20	26.46	209978	205775	16.161	14.587
19) B Endosulfan Sulfa	29.08	33.96	183434	222012	21.015	22.681
20) A Methoxychlor	32.30	33.75	488531	588956	78.842m	65.692m 0.10
21) B Endrin ketone	32.68	36.03	205454	210454	19.015	17.835m 0.02
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

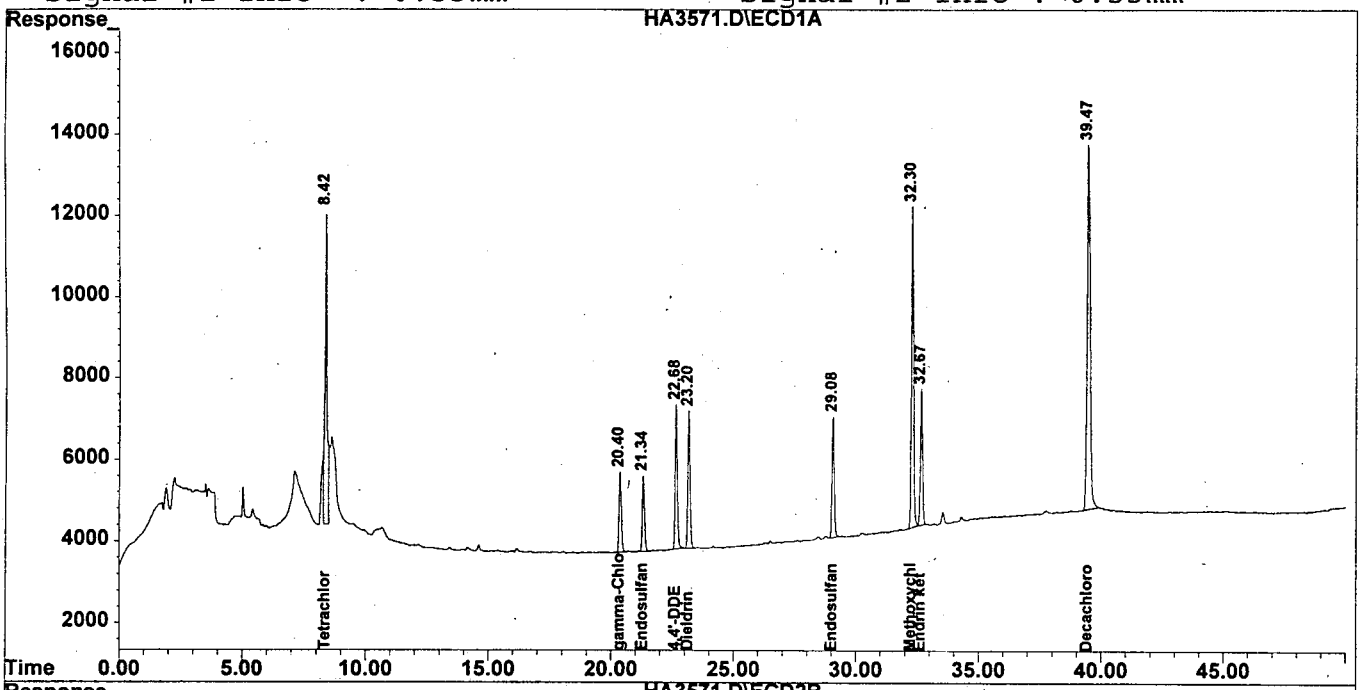
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

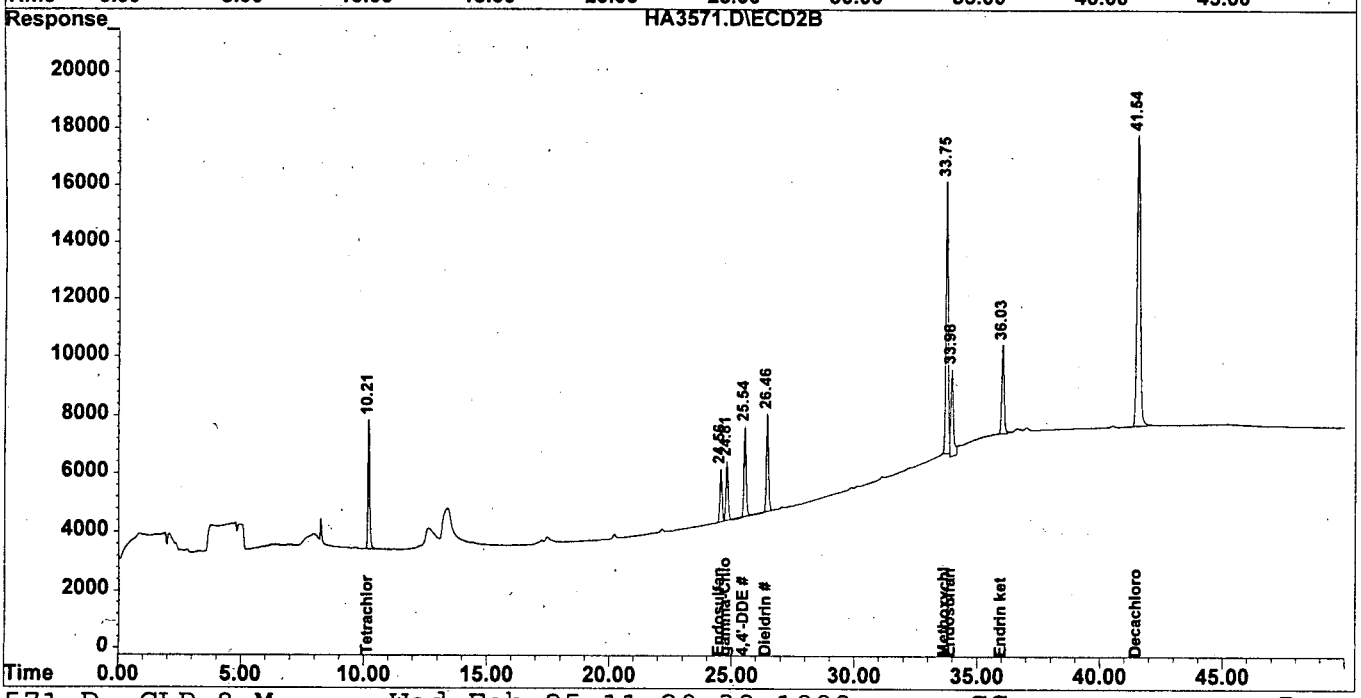
Quantitation Report

Signal #1 : F:\1\DATA_H\HA3571.D\ECD1A.CH Vial: 1
Signal #2 : F:\1\DATA_H\HA3571.D\ECD2B.CH
Acq On : 24 Mar 98 22:52 Operator:
Sample : RESC01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 11:05 1998 Quant Results File: CLP_8.RES

Quant Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

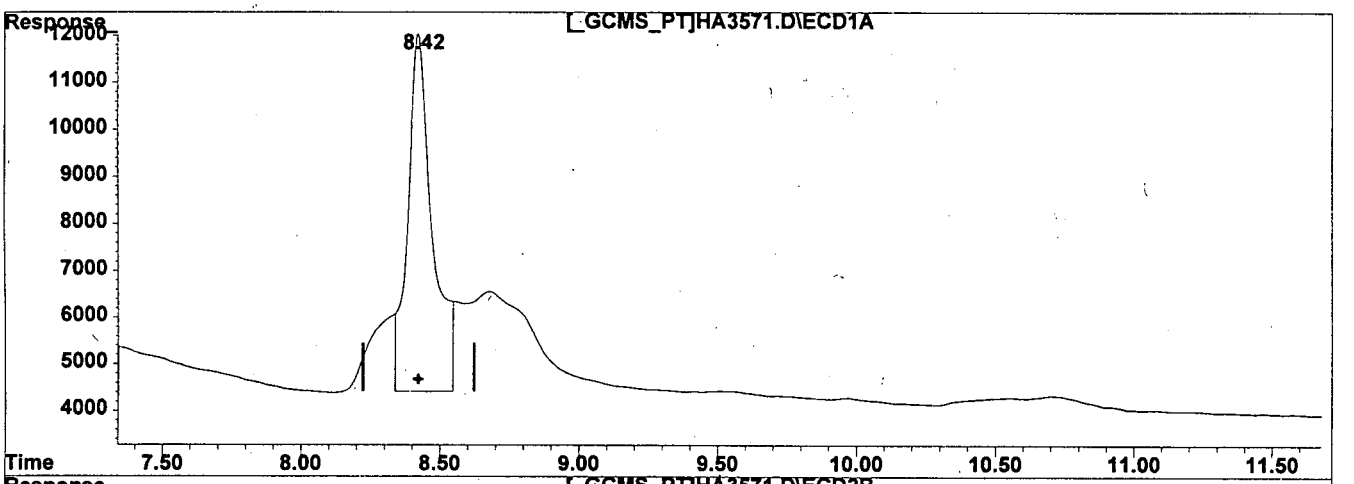


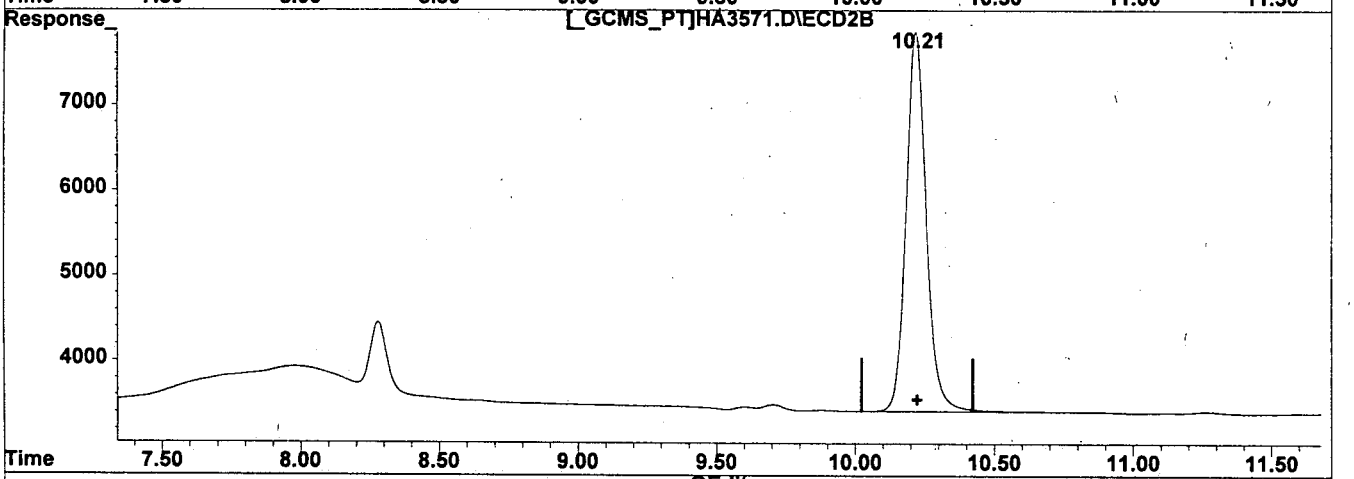


Quantitation Report

Signal #1 : F:\1\DATA_H\HA3571.D\ECD1A.CH Vial: 1
Signal #2 : F:\1\DATA_H\HA3571.D\ECD2B.CH
Acq On : 24 Mar 98 22:52 Operator:
Sample : RESC01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 11:05 1998 Quant Results File: CLP_8.RES

Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(1) Tetrachloro-m-xylene (SA)

8.42min 32.299ng/ml m

response 463760

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

10.22min 16.723ng/ml

response 224690

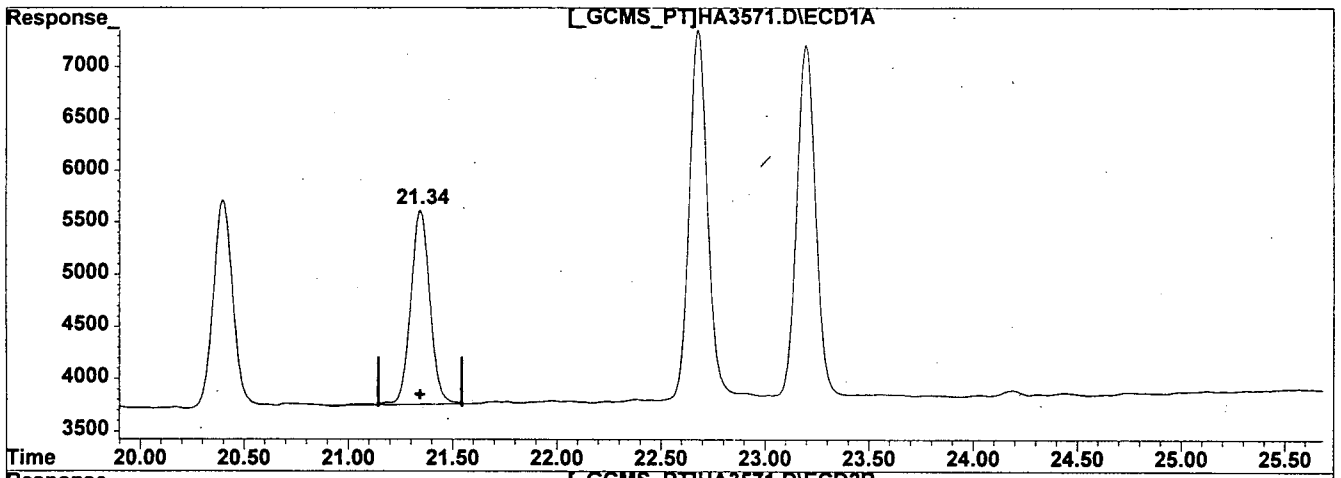
(+) = Expected Retention Time

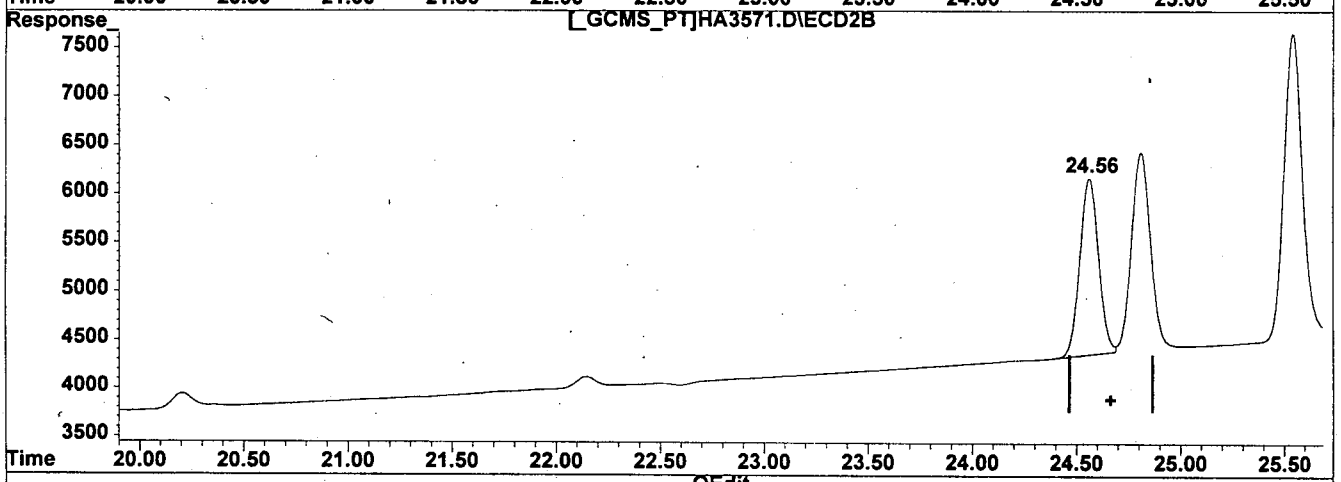
HA3571.D CLP_8.M Wed Feb 25 11:42:09 1998 GC

Quantitation Report

Signal #1 : F:\1\DATA_H\HA3571.D\ECD1A.CH Vial: 1
Signal #2 : F:\1\DATA_H\HA3571.D\ECD2B.CH
Acq On : 24 Mar 98 22:52 Operator:
Sample : RESC01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 11:05 1998 Quant Results File: CLP_8.RES

Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(9) Endosulfan I (A)

21.35min 8.795ng/ml

response 119569

(9) Endosulfan I #2 (A)

24.56min 7.860ng/ml m

response 113211

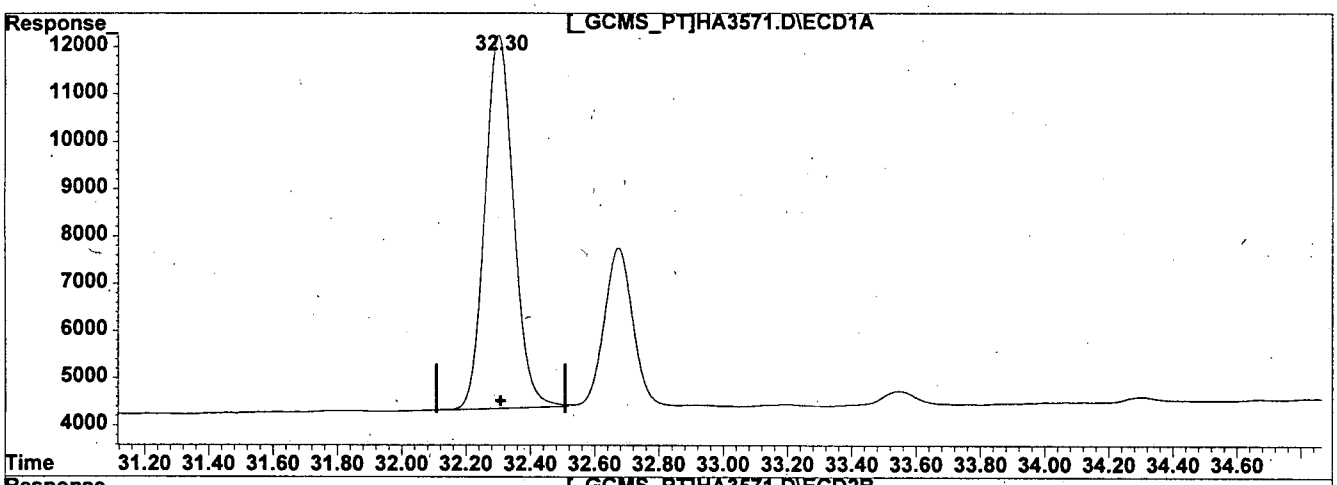
(+) = Expected Retention Time

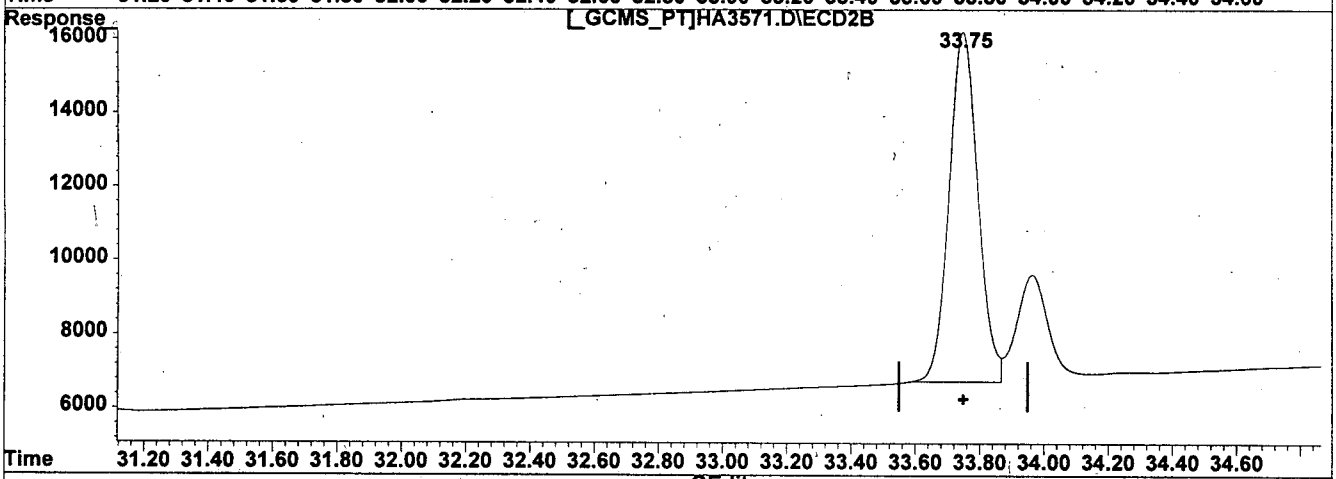
HA3571.D CLP_8.M Wed Feb 25 11:42:19 1998 GC

Quantitation Report

Signal #1 : F:\1\DATA_H\HA3571.D\ECD1A.CH Vial: 1
Signal #2 : F:\1\DATA_H\HA3571.D\ECD2B.CH
Acq On : 24 Mar 98 22:52 Operator:
Sample : RESC01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 11:05 1998 Quant Results File: CLP_8.RES

Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(20) Methoxychlor (A)

32.30min 78.842ng/ml m

response 488531

(20) Methoxychlor #2 (A)

33.75min 65.692ng/ml m

response 588956

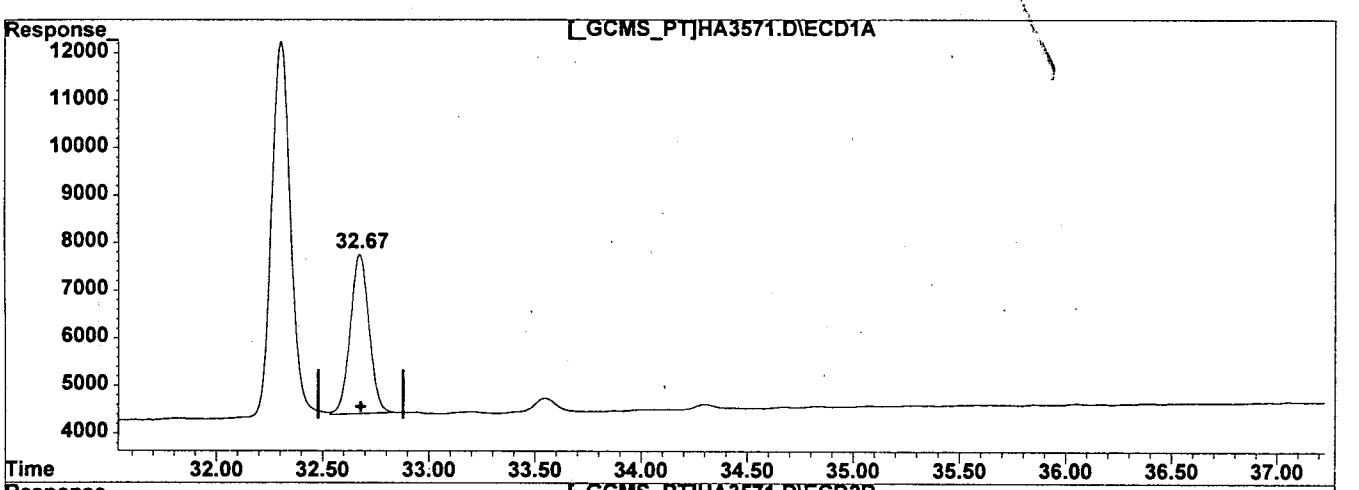
(+) = Expected Retention Time

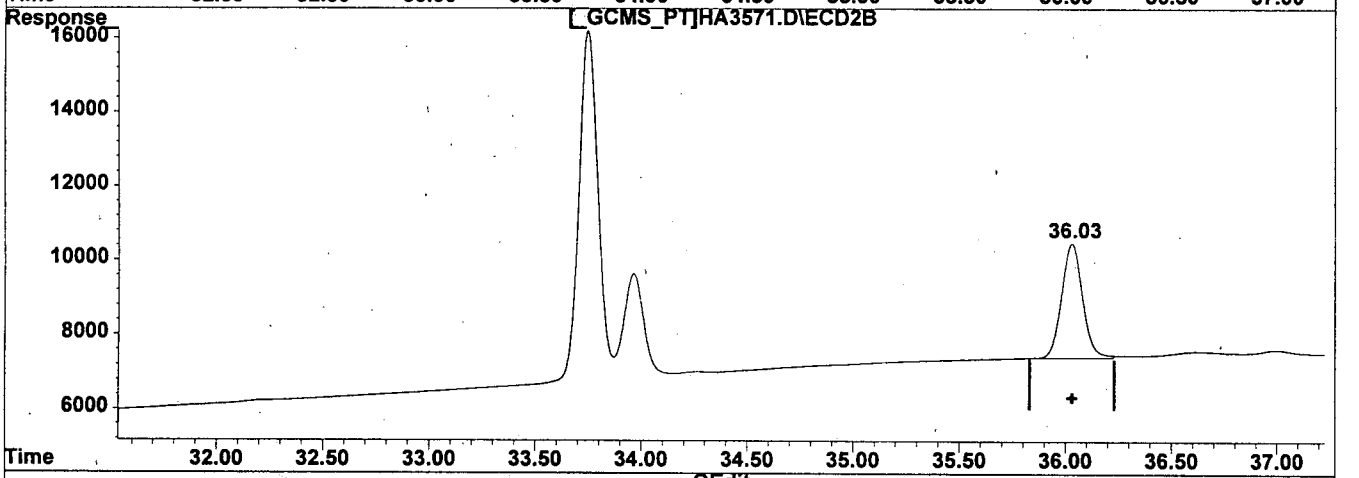
HA3571.D CLP_8.M Wed Feb 25 11:42:34 1998 GC

Quantitation Report

Signal #1 : F:\1\DATA_H\HA3571.D\ECD1A.CH Vial: 1
Signal #2 : F:\1\DATA_H\HA3571.D\ECD2B.CH
Acq On : 24 Mar 98 22:52 Operator:
Sample : RESC01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 11:05 1998 Quant Results File: CLP_8.RES

Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(21) Endrin ketone (B)

32.68min 19.015ng/ml

response 205454

(21) Endrin ketone #2 (B)

36.03min 17.835ng/ml m

response 210454

(+) = Expected Retention Time

HA3571.D CLP_8.M Wed Feb 25 11:42:40 1998 GC

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : F:\1\DATA_H\HA3572.D\ECD1A.CH Vial: 2
Signal #2 : F:\1\DATA_H\HA3572.D\ECD2B.CH
Acq On : 24 Mar 98 23:46 Operator:
Sample : PEM01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 11:09 1998 Quant Results File: CLP_8.RES

Quant Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: F:\1\DATA_H\HA3573.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.42	10.22	272053	243492	18.947m	18.123	1s inj 0.02
Spiked Amount 40.000 Range 60 - 150 Recovery =					47.37%#	45.31%#	
2) SA Decachlorobiphen	39.48	41.55	383241	449511	19.847	17.082	
Spiked Amount 40.000 Range 60 - 150 Recovery =					49.62%#	42.71%#	
Target Compounds							
2) A alpha-BHC	11.08	14.37	97015	84764	8.788	8.255m	0.01
3) MA gamma-BHC (Linda	13.01	16.48	102933	88525	9.022	8.041	
6) B beta-BHC	14.23	20.59	76024	64775	11.840	10.842	
12) B 4,4'-DDE	22.69	25.55	12328	9468	1.089m	0.833m	
14) MA Endrin	25.06	27.61	511913	507162	44.674	41.896m	0.05
16) A 4,4'-DDD	25.97	29.72	37082	35303	4.910m	4.068m	
17) MA 4,4'-DDT	27.49	30.58	943540	932446	103.355	92.945	0.10
18) B Endrin aldehyde	28.21	32.31	15645	16224	1.591m	1.553m	
20) A Methoxychlor	32.31	33.75	1398761	1890148	225.739	210.826	0.25
21) B Endrin ketone	32.68	36.04	20160	22017	1.866m	1.866m	
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	

ok Breakdown

	Sig 1	Sig 2
DDT	6.00	4.90
Endrin	6.91	6.84
Total	12.91	11.74

PE 3/25/98

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : F:\1\DATA_H\HA3572.D\ECD1A.CH Vial: 2
Signal #2 : F:\1\DATA_H\HA3572.D\ECD2B.CH
Acq On : 24 Mar 98 23:46 Operator:
Sample : PEM01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 11:09 1998 Quant Results File: CLP_8.RES

Quant Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: F:\1\DATA_H\HA3573.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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.
verage Toxaphene					0.000	0.000

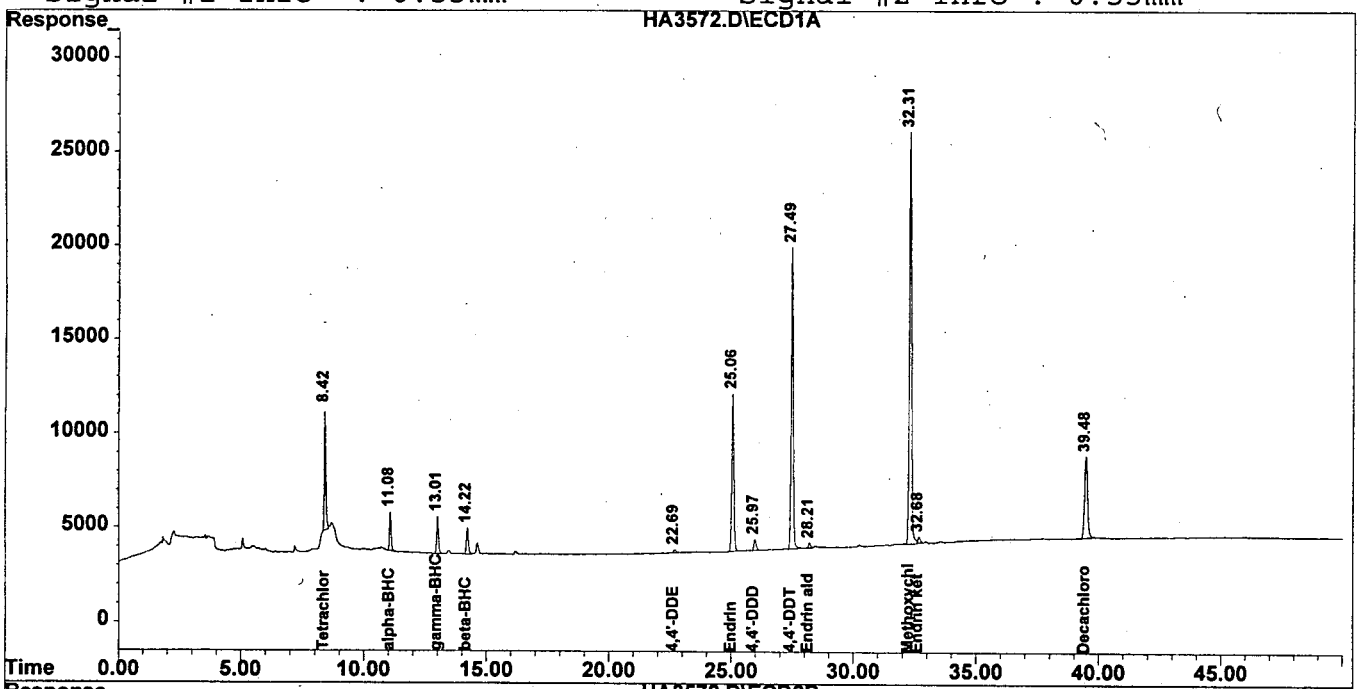
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

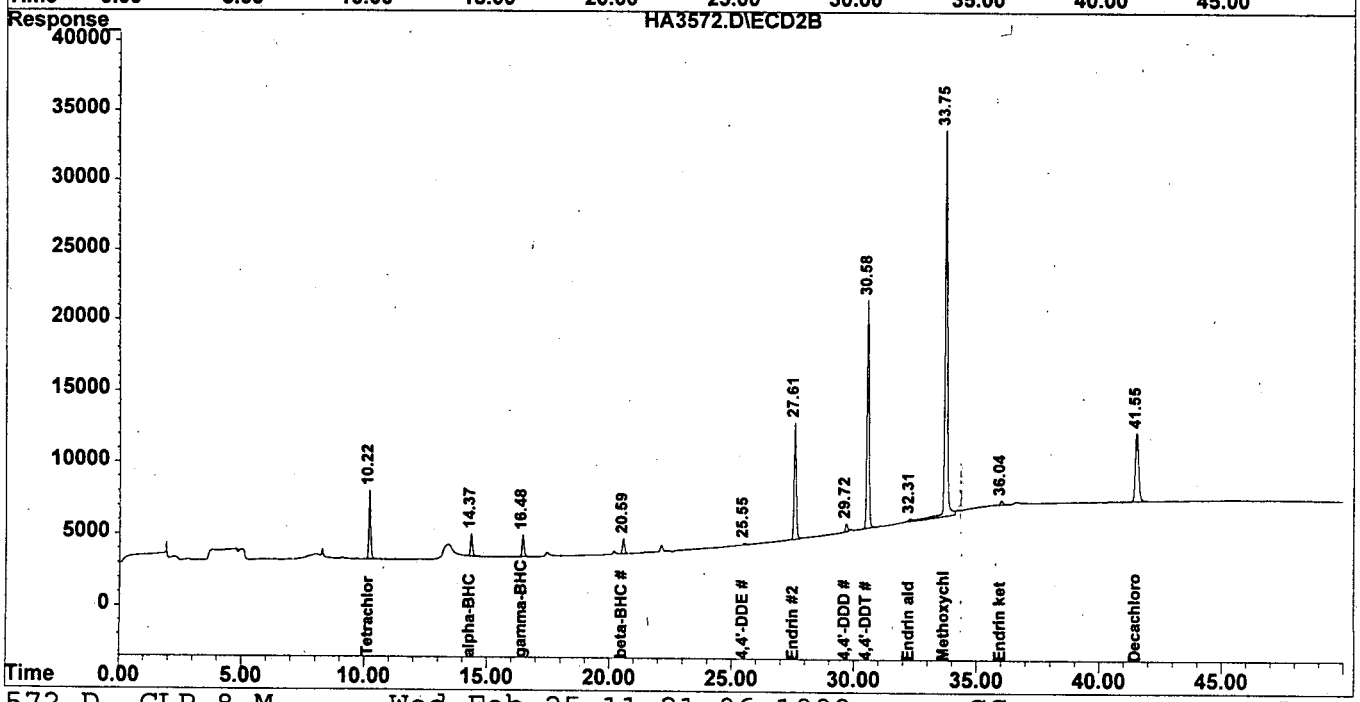
Quantitation Report

Signal #1 : F:\1\DATA_H\HA3572.D\ECD1A.CH Vial: 2
Signal #2 : F:\1\DATA_H\HA3572.D\ECD2B.CH
Acq On : 24 Mar 98 23:46 Operator:
Sample : PEM01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 11:09 1998 Quant Results File: CLP_8.RES

Quant Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

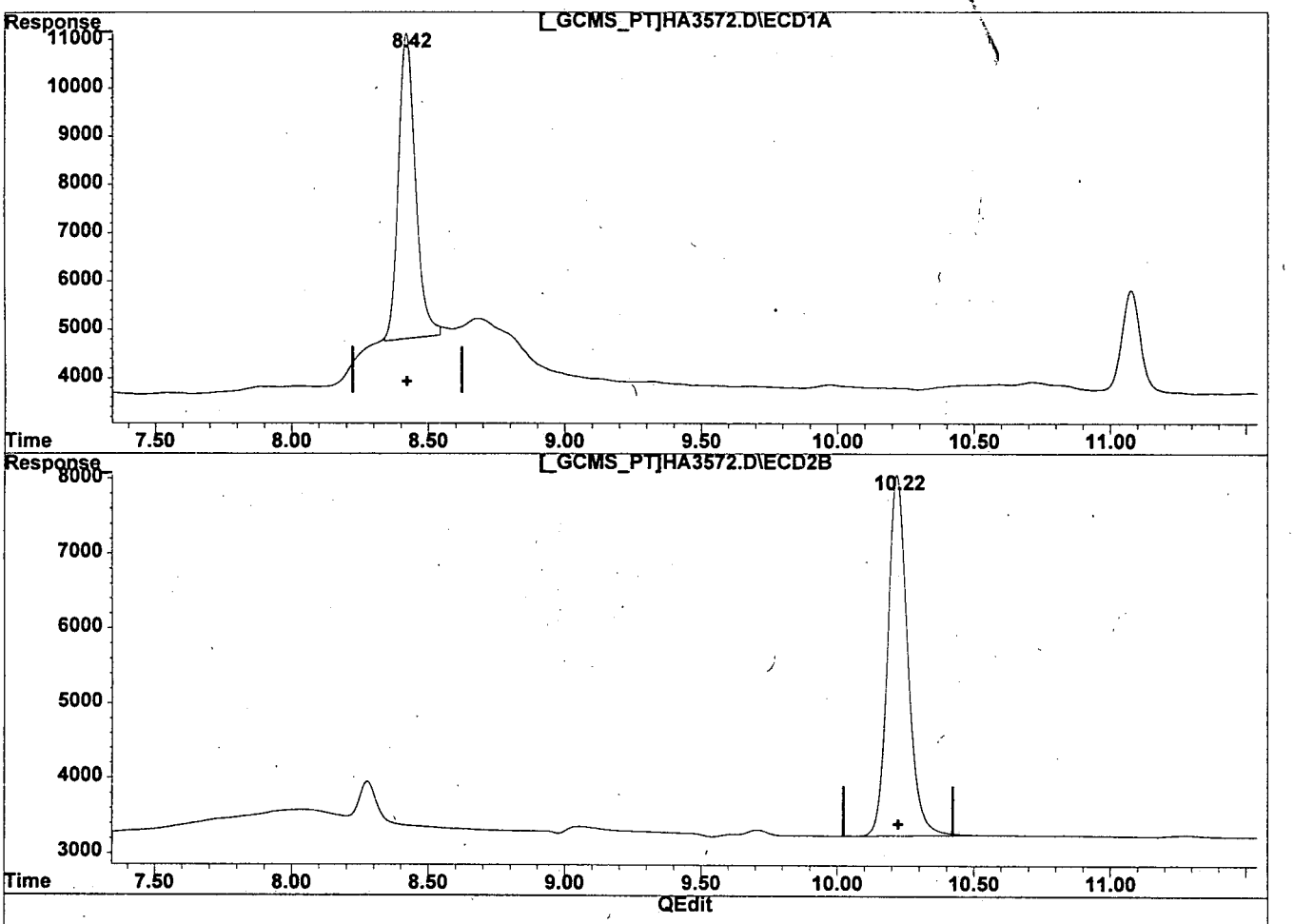




Quantitation Report

Signal #1 : F:\1\DATA_H\HA3572.D\ECD1A.CH Vial: 2
Signal #2 : F:\1\DATA_H\HA3572.D\ECD2B.CH
Acq On : 24 Mar 98 23:46 Operator:
Sample : PEM01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 11:09 1998 Quant Results File: CLP_8.RES

Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration



(1) Tetrachloro-m-xylene (SA)

8.42min 18.947ng/ml m

response 272053

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

10.22min 18.123ng/ml

response 243492

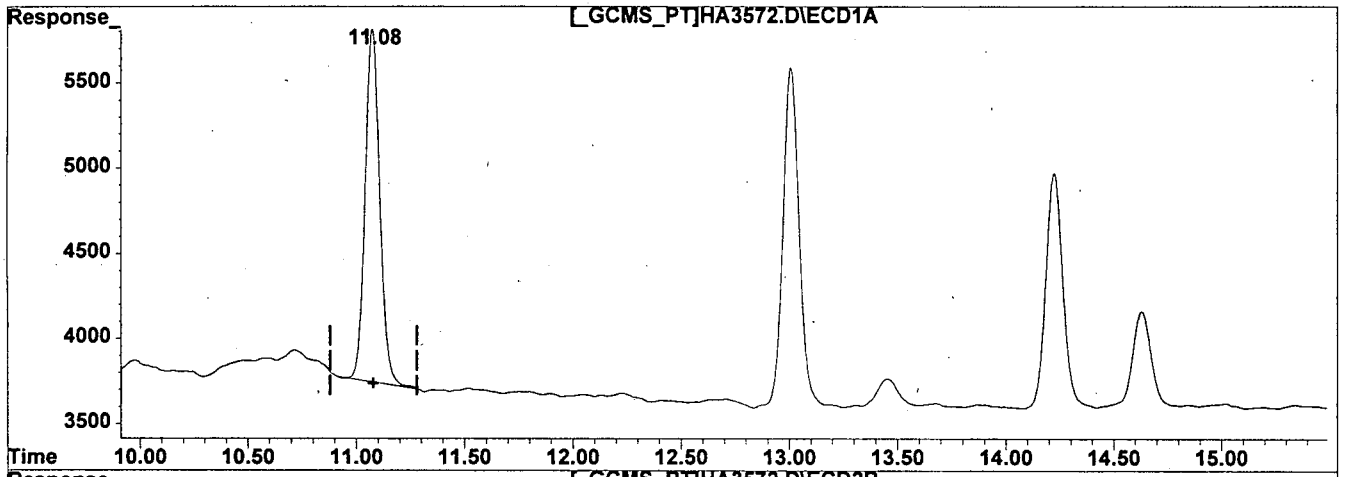
(+) = Expected Retention Time

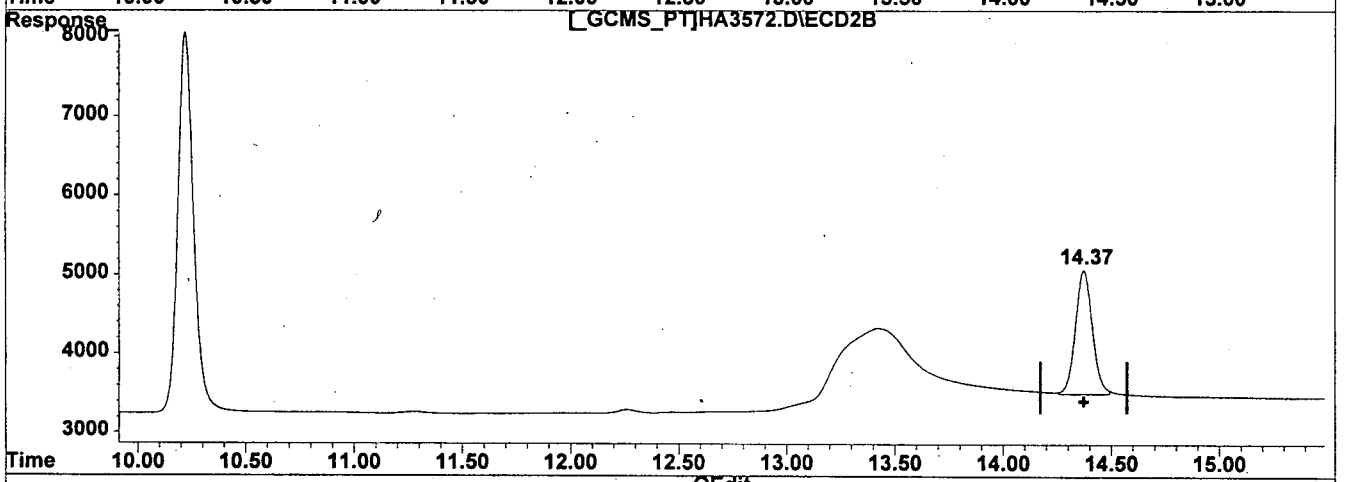
HA3572.D CLP_8.M Wed Feb 25 11:47:40 1998 GC

Quantitation Report

Signal #1 : F:\1\DATA_H\HA3572.D\ECD1A.CH Vial: 2
Signal #2 : F:\1\DATA_H\HA3572.D\ECD2B.CH
Acq On : 24 Mar 98 23:46 Operator:
Sample : PEM01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 11:09 1998 Quant Results File: CLP_8.RES

Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(2) alpha-BHC (A)

11.08min 8.788ng/ml

response 97015

(2) alpha-BHC #2 (A)

14.37min 8.255ng/ml m

response 84764

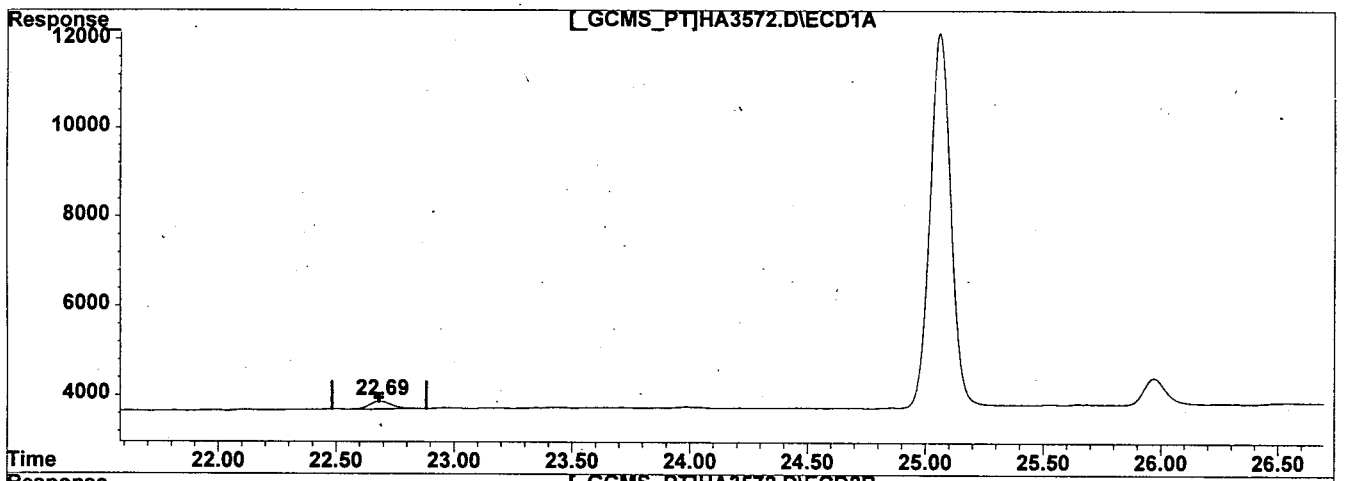
(+) = Expected Retention Time

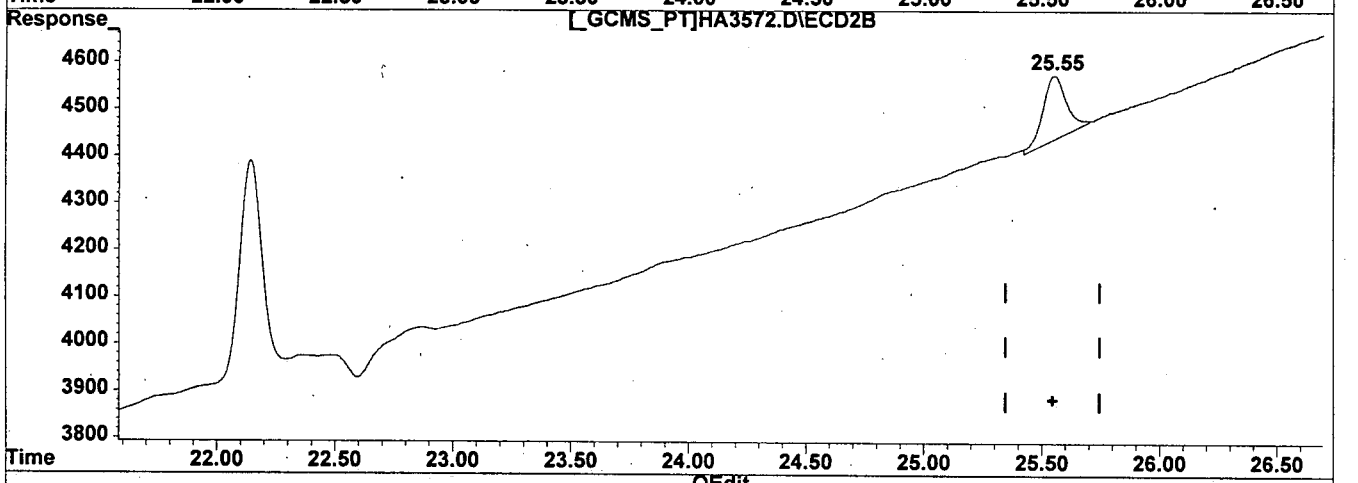
HA3572.D CLP_8.M Wed Feb 25 11:47:47 1998 GC

Quantitation Report

Signal #1 : F:\1\DATA_H\HA3572.D\ECD1A.CH Vial: 2
Signal #2 : F:\1\DATA_H\HA3572.D\ECD2B.CH
Acq On : 24 Mar 98 23:46 Operator:
Sample : PEM01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 11:09 1998 Quant Results File: CLP_8.RES

Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(12) 4,4'-DDE (B)

22.69min 1.089ng/ml m

response 12328

(12) 4,4'-DDE #2 (B)

25.55min 0.833ng/ml m

response 9468

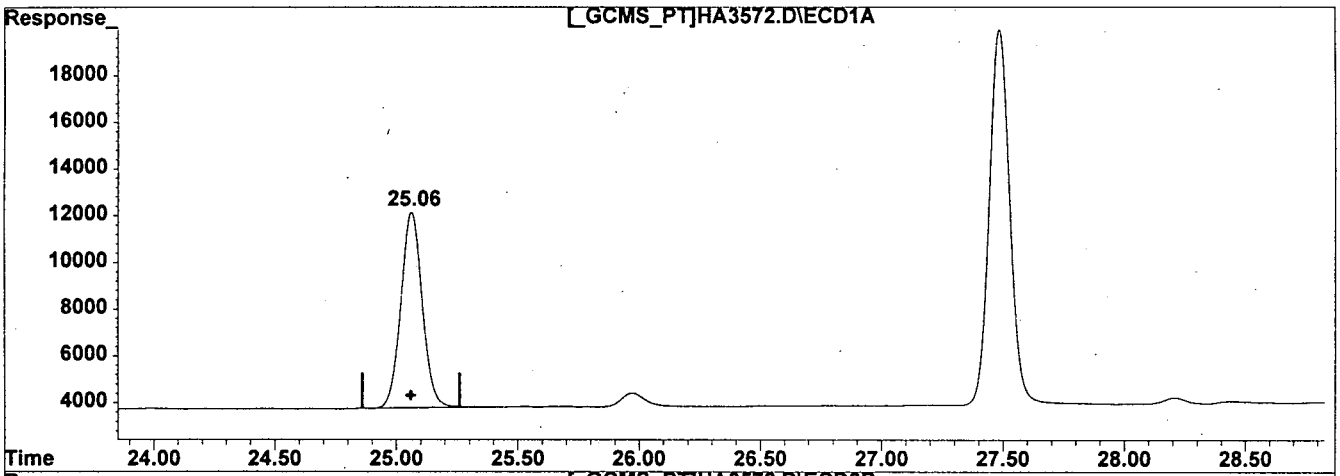
(+) = Expected Retention Time

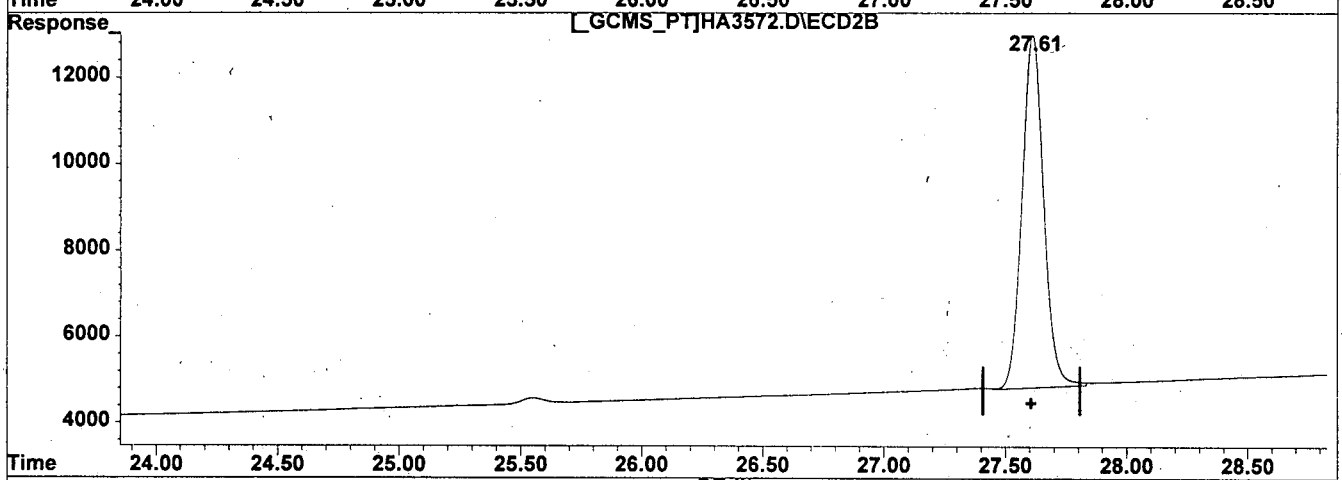
HA3572.D CLP_8.M Wed Feb 25 11:47:55 1998 GC

Quantitation Report

Signal #1 : F:\1\DATA_H\HA3572.D\ECD1A.CH Vial: 2
Signal #2 : F:\1\DATA_H\HA3572.D\ECD2B.CH
Acq On : 24 Mar 98 23:46 Operator:
Sample : PEM01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 11:09 1998 Quant Results File: CLP_8.RES

Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(14) Endrin (MA)

25.06min 44.674ng/ml

response 511913

(14) Endrin #2 (MA)

27.61min 41.896ng/ml m

response 507162

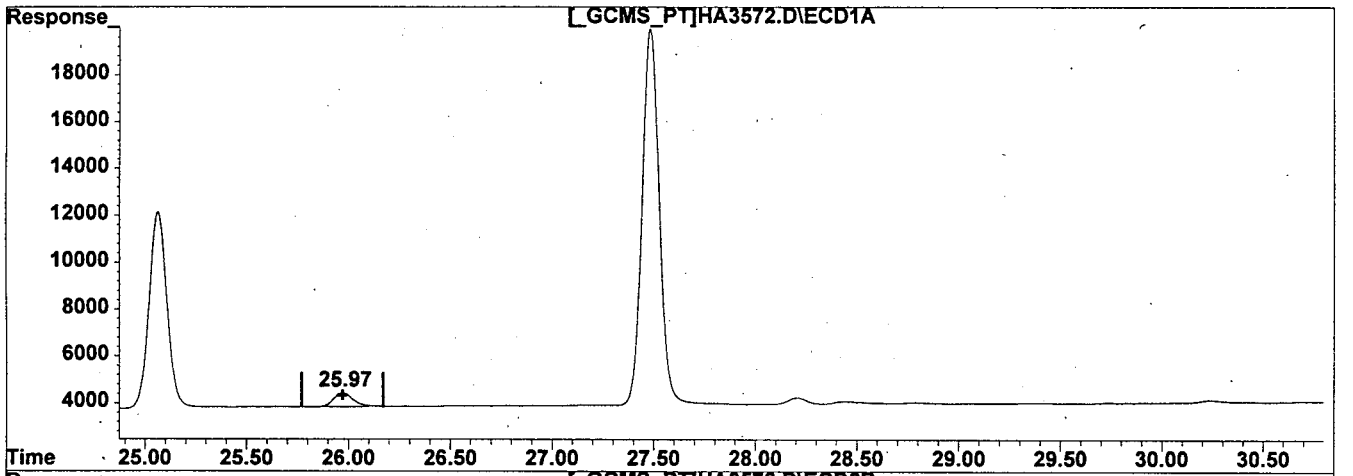
(+) = Expected Retention Time

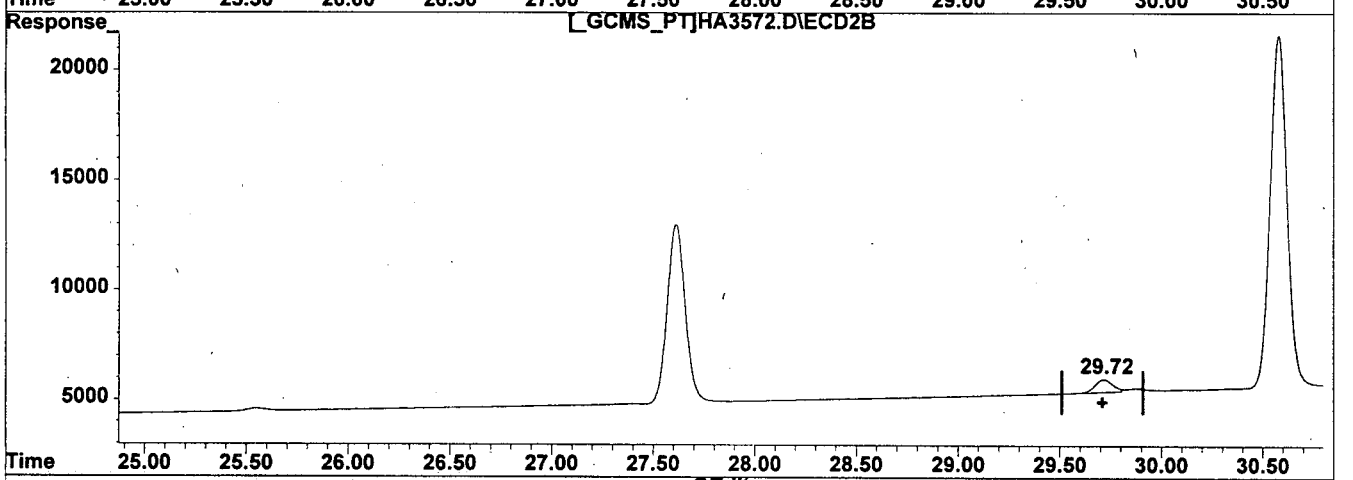
HA3572.D CLP_8.M Wed Feb 25 11:48:25 1998 GC

Quantitation Report

Signal #1 : F:\1\DATA_H\HA3572.D\ECD1A.CH Vial: 2
Signal #2 : F:\1\DATA_H\HA3572.D\ECD2B.CH
Acq On : 24 Mar 98 23:46 Operator:
Sample : PEM01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 11:09 1998 Quant Results File: CLP_8.RES

Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(16) 4,4'-DDD (A)

25.97min 4.910ng/ml m

response 37082

(16) 4,4'-DDD #2 (A)

29.72min 4.068ng/ml m

response 35303

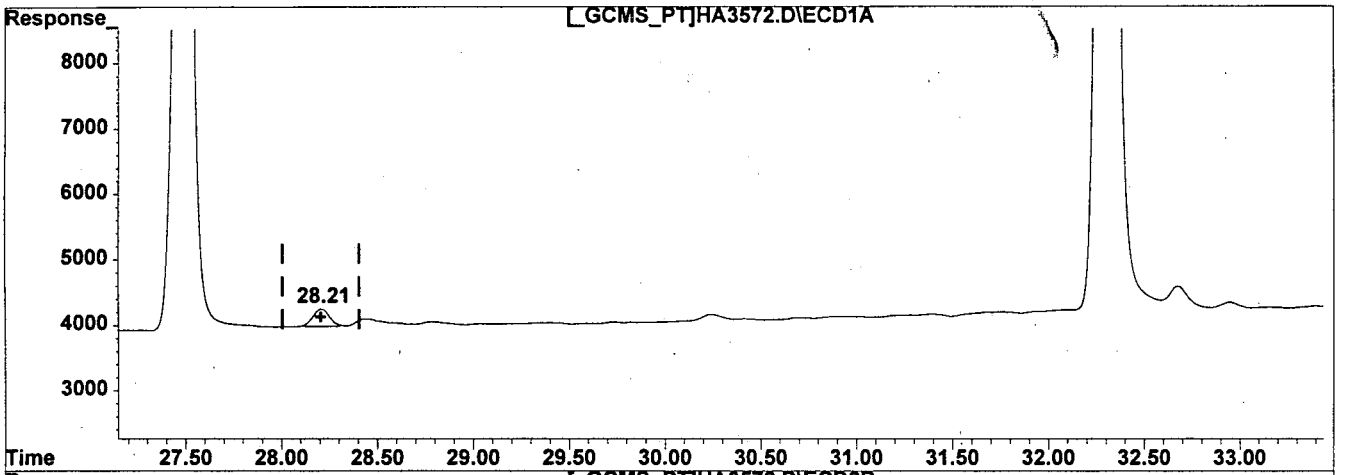
(+) = Expected Retention Time

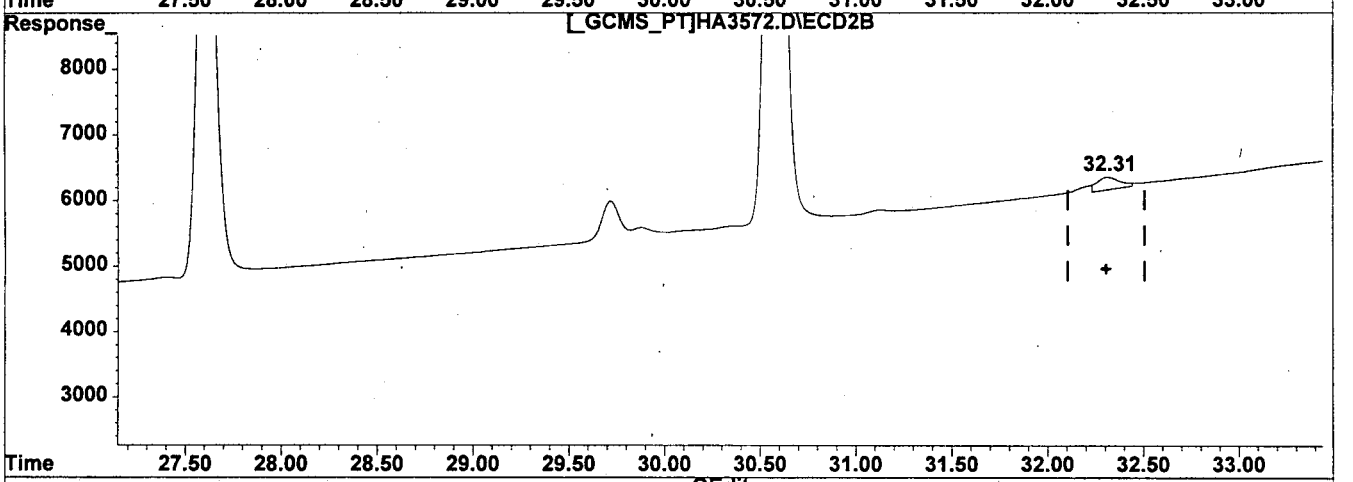
HA3572.D CLP_8.M Wed Feb 25 11:48:32 1998 GC

Quantitation Report

Signal #1 : F:\1\DATA_H\HA3572.D\ECD1A.CH Vial: 2
Signal #2 : F:\1\DATA_H\HA3572.D\ECD2B.CH
Acq On : 24 Mar 98 23:46 Operator:
Sample : PEM01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 11:09 1998 Quant Results File: CLP_8.RES

Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(18) Endrin aldehyde (B)

28.21min 1.591ng/ml m

response 15645

(18) Endrin aldehyde #2 (B)

32.31min 1.553ng/ml m

response 16224

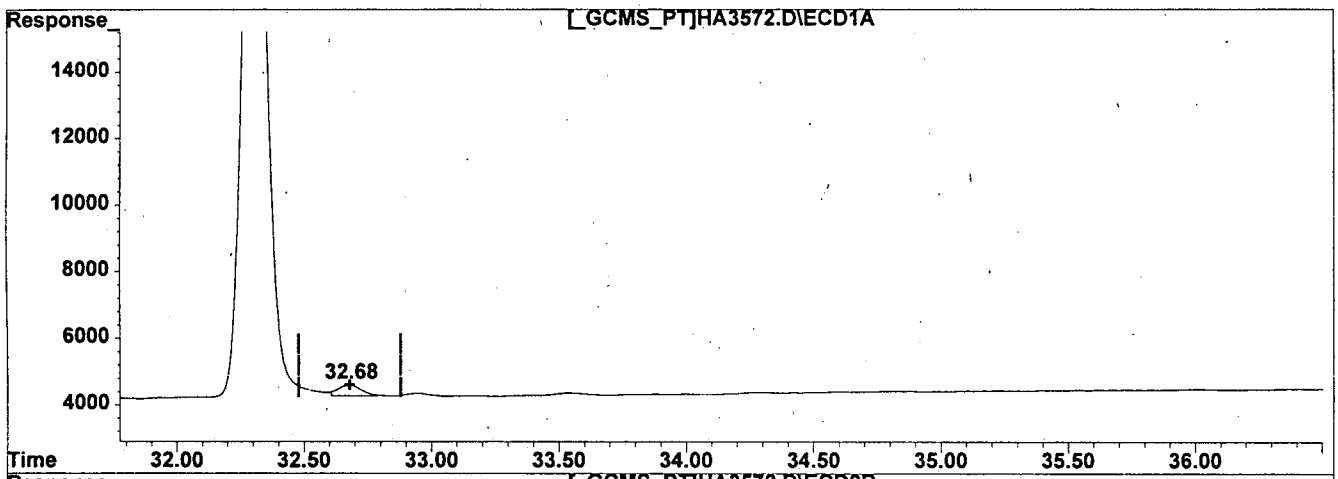
(+) = Expected Retention Time

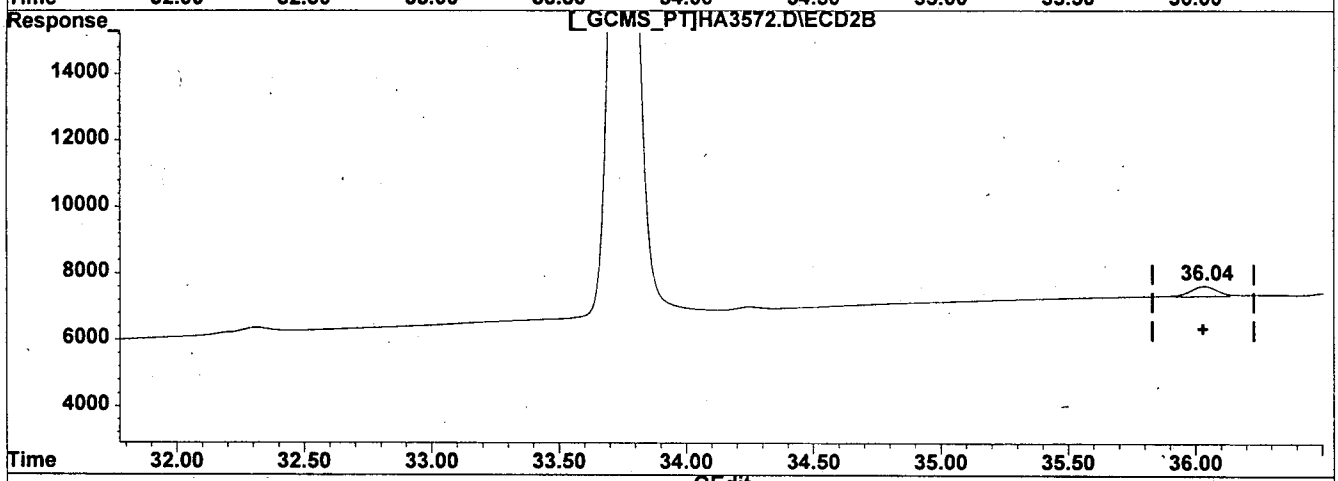
HA3572.D CLP_8.M Wed Feb 25 11:48:51 1998 GC

Quantitation Report

Signal #1 : F:\1\DATA_H\HA3572.D\ECD1A.CH Vial: 2
Signal #2 : F:\1\DATA_H\HA3572.D\ECD2B.CH
Acq On : 24 Mar 98 23:46 Operator:
Sample : PEM01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 11:09 1998 Quant Results File: CLP_8.RES

Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(21) Endrin ketone (B)

32.68min 1.866ng/ml m

response 20160

(21) Endrin ketone #2 (B)

36.04min 1.866ng/ml m

response 22017

(+) = Expected Retention Time

HA3572.D CLP_8.M Wed Feb 25 11:49:05 1998 GC

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3587.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA_H\HA3587.D\ECD2B.CH
Acq On : 25 Mar 98 13:47 Operator:
Sample : PEM02 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 15:14 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.42	10.22	341614	245124	20.931	19.501	0.02
Spiked Amount 40.000 Range 60 - 150 Recovery =					52.33%#	48.75%#	
2) SA Decachlorobiphen	39.47	41.53	399603	462973	17.991	17.435	0.02
Spiked Amount 40.000 Range 60 - 150 Recovery =					44.98%#	43.59%#	
Target Compounds							
2) A alpha-BHC	11.07	14.36	99307	87554	7.701	7.619m	0.01
3) MA gamma-BHC (Linda	13.00	16.47	102894	92334	7.738m	7.778m	
6) B beta-BHC	14.22	20.58	74351	63980	9.408	10.013	
12) B 4,4'-DDE	22.69	25.55	14476	13925	1.321	1.345m	
14) MA Endrin	25.05	27.60	547959	530861	40.753m	40.161m	0.05
16) A 4,4'-DDD	25.97	29.71	23613	26668	2.786m	3.006m	
17) MA 4,4'-DDT	27.48	30.57	912792	968235	96.425	100.098	0.10
18) B Endrin aldehyde	28.20	32.30	22997	18851	2.143	1.750m	
20) A Methoxychlor	32.30	33.74	1279277	1732733	222.285	222.433	0.05
21) B Endrin ketone	32.67	36.02	26335	19691	2.419m	1.790m#	
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
Sig 1 Sig 2
DDT 4.16 4.351
Endrin 9.12 7.08
Total 13.23 11.43

3/31/98

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

Signal #1 : C:\HPCHEM\1\DATA_H\HA3587.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA_H\HA3587.D\ECD2B.CH
Acq On : 25 Mar 98 13:47 Operator:
Sample : PEM02 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 15:14 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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.
verage Toxaphene					0.000	0.000

PAS 3/31/98

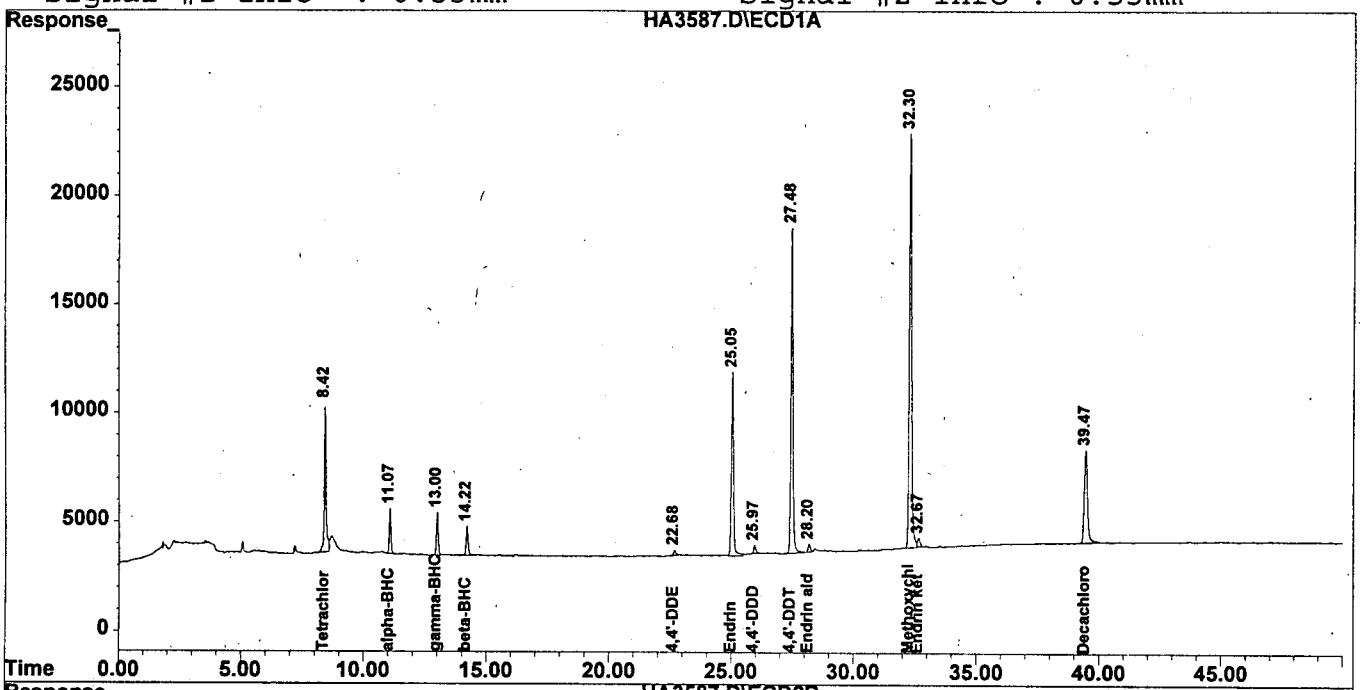
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

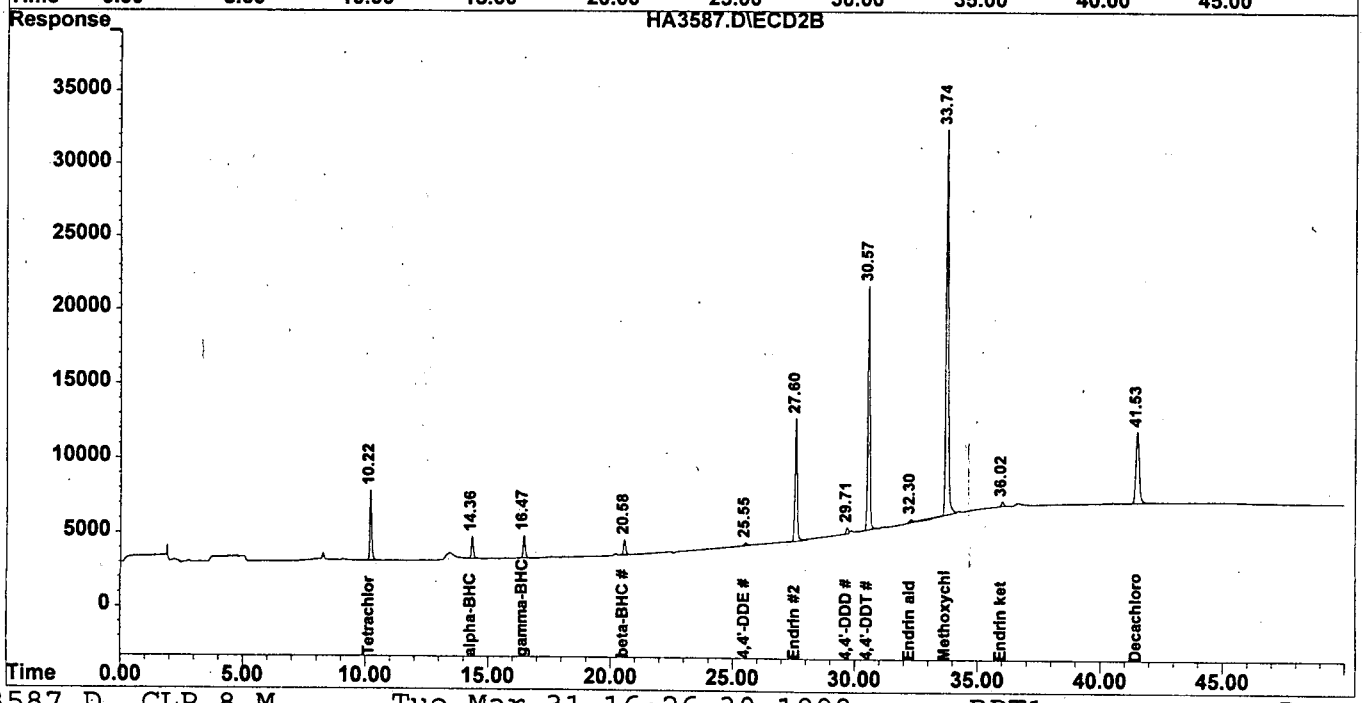
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3587.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA_H\HA3587.D\ECD2B.CH
Acq On : 25 Mar 98 13:47 Operator:
Sample : PEM02 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 15:14 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

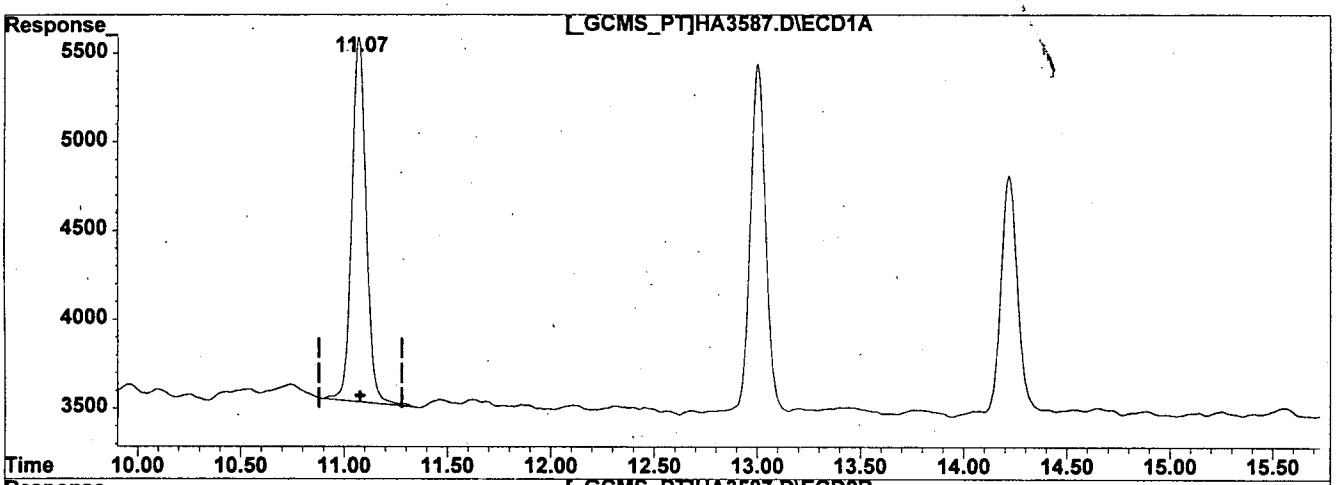


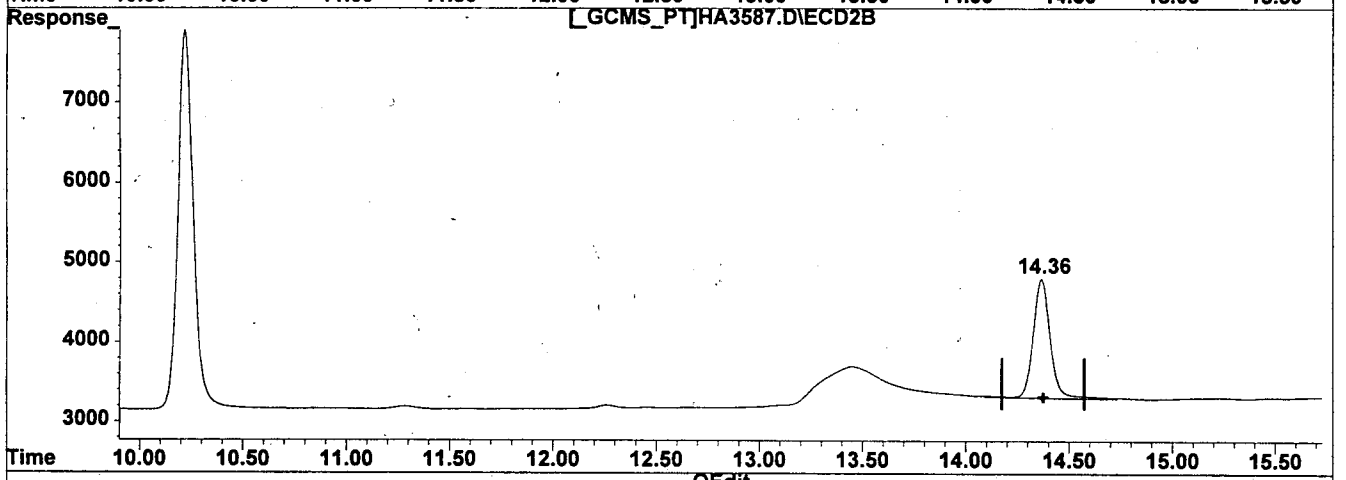


Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3587.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA_H\HA3587.D\ECD2B.CH
Acq On : 25 Mar 98 13:47 Operator:
Sample : PEM02 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 15:14 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(2) alpha-BHC (A)

11.07min 7.701ng/ml

response 99307

(2) alpha-BHC #2 (A)

14.36min 7.619ng/ml m

response 87554

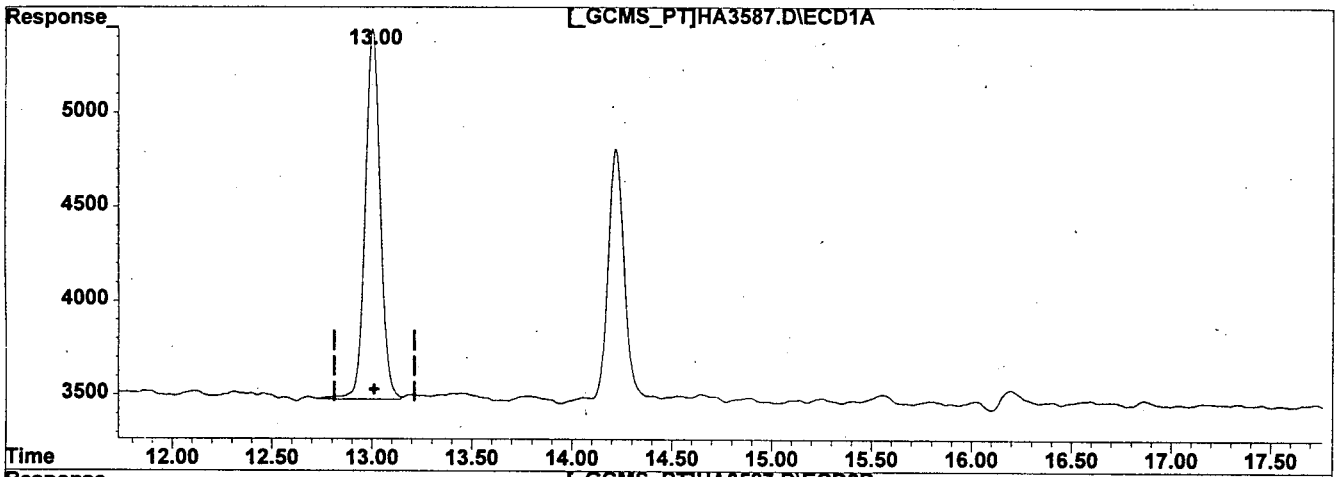
(+) = Expected Retention Time

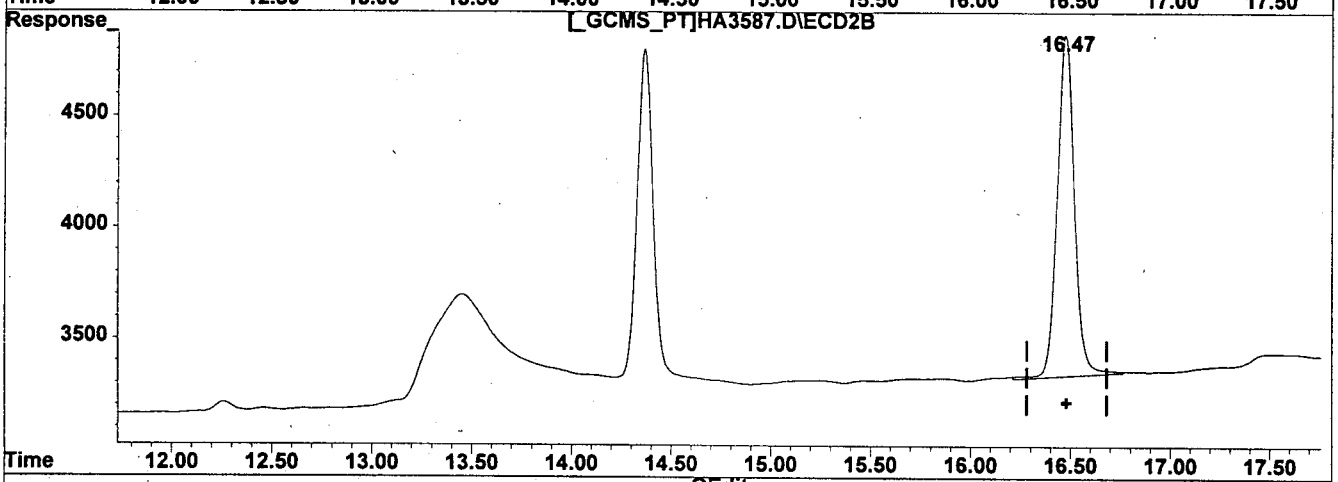
HA3587.D CLP_8.M Tue Mar 31 17:17:49 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3587.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA_H\HA3587.D\ECD2B.CH
Acq On : 25 Mar 98 13:47 Operator:
Sample : PEM02 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 15:14 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(3) gamma-BHC (Lindane) (MA)

13.00min 7.738ng/ml m

response 102894

(3) gamma-BHC (Lindane) #2 (MA)

16.47min 7.778ng/ml m

response 92334

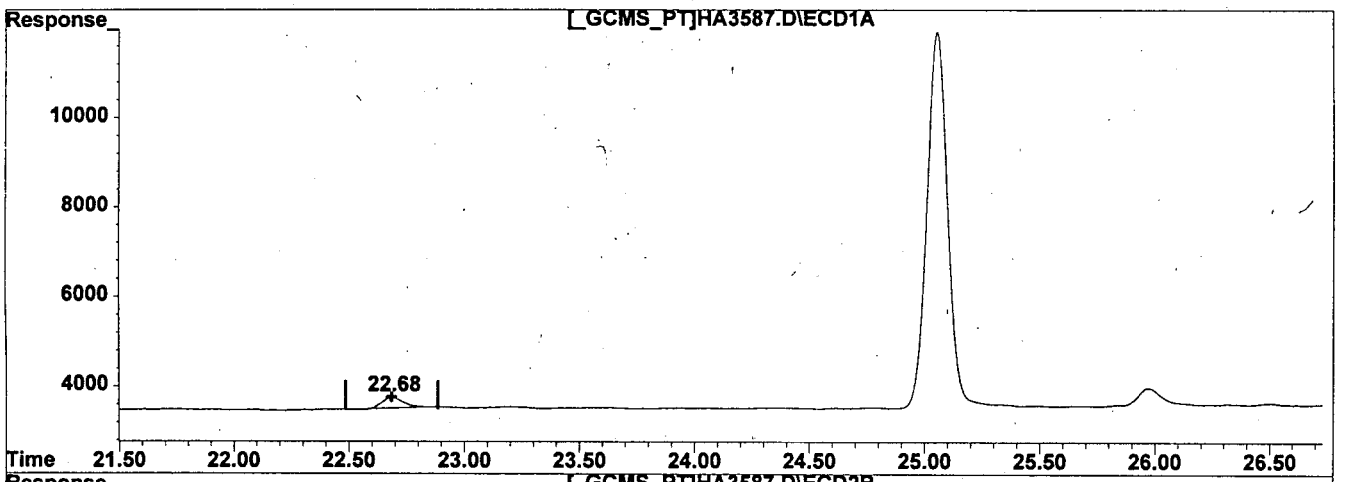
(+) = Expected Retention Time

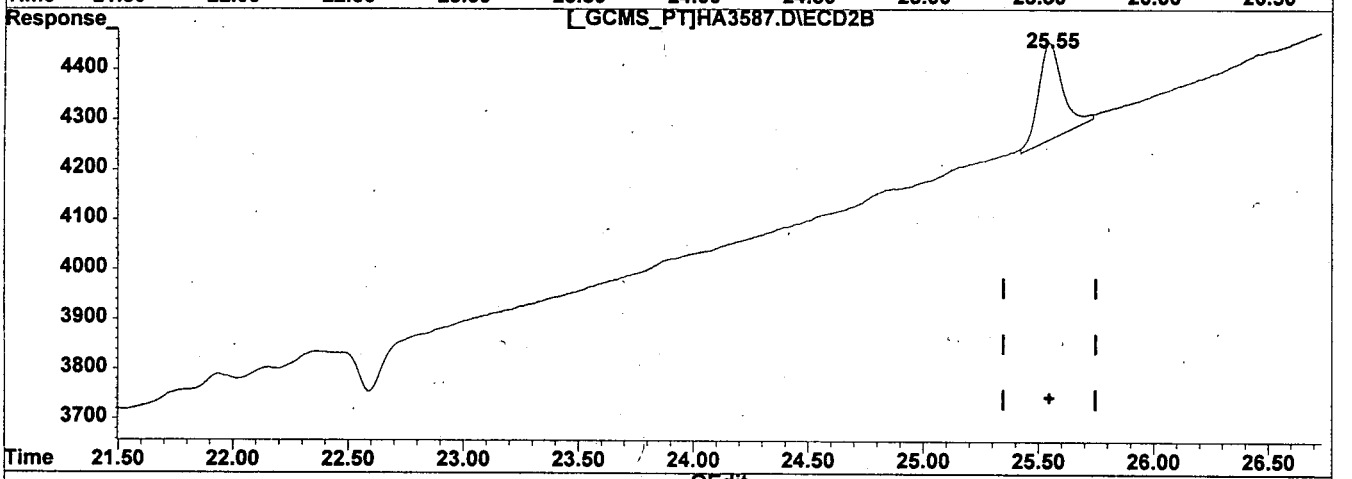
HA3587.D CLP_8.M Tue Mar 31 17:17:57 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3587.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA_H\HA3587.D\ECD2B.CH
Acq On : 25 Mar 98 13:47 Operator:
Sample : PEM02 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 15:14 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(12) 4,4'-DDE (B)

22.69min 1.321ng/ml

response 14476

(12) 4,4'-DDE #2 (B)

25.55min 1.345ng/ml m

response 13925

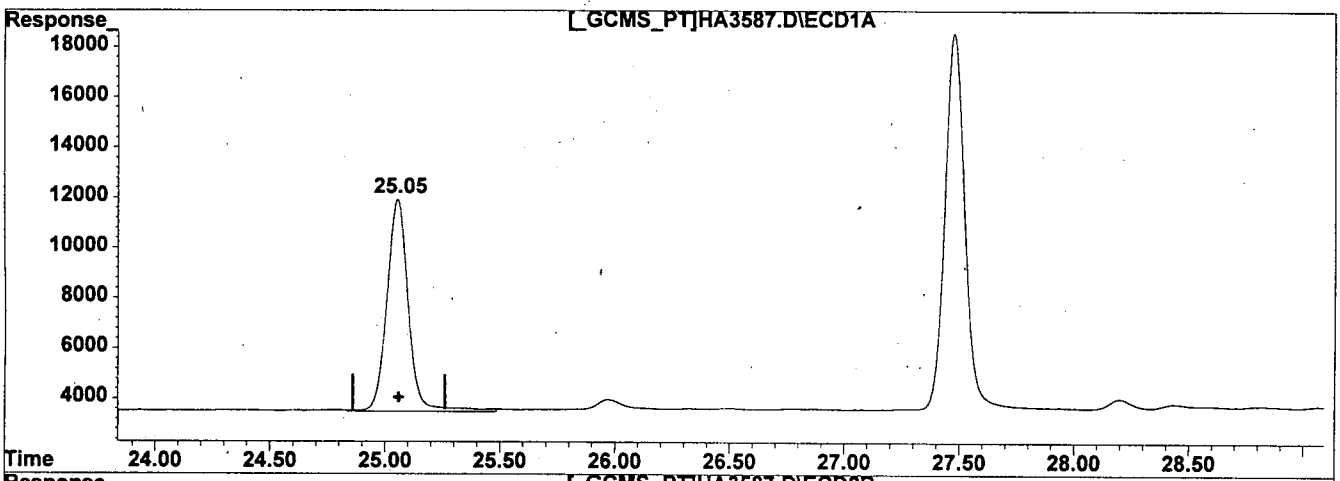
(+) = Expected Retention Time

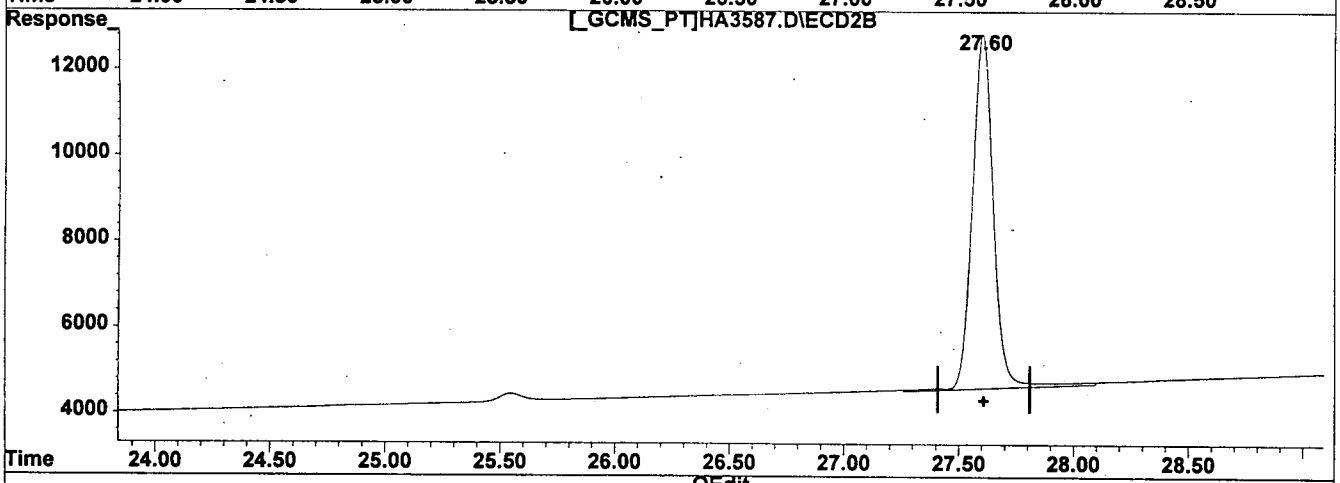
HA3587.D CLP_8.M Tue Mar 31 17:18:09 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3587.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA_H\HA3587.D\ECD2B.CH
Acq On : 25 Mar 98 13:47 Operator:
Sample : PEM02 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 15:14 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(14) Endrin (MA)

25.05min 40.753ng/ml m

response 547959

(14) Endrin #2 (MA)

27.60min 40.161ng/ml m

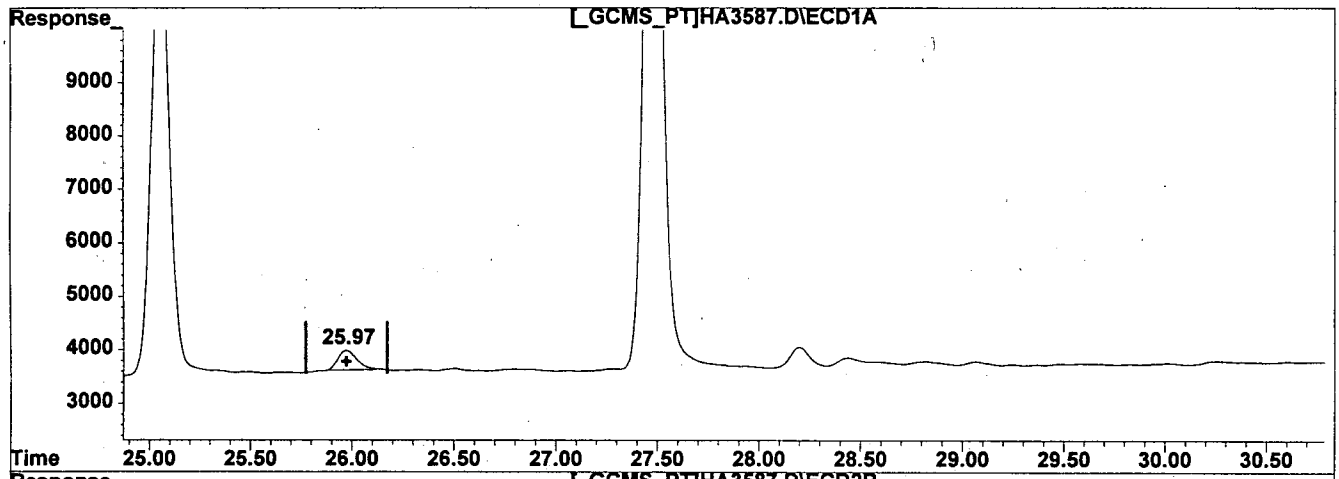
response 530861

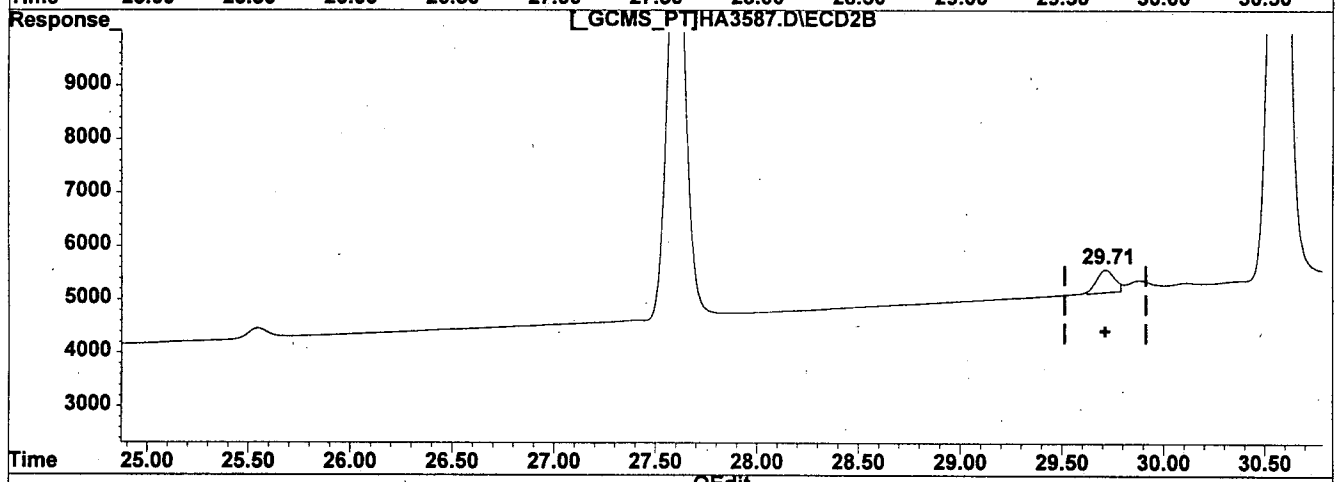
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3587.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA_H\HA3587.D\ECD2B.CH
Acq On : 25 Mar 98 13:47 Operator:
Sample : PEM02 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 15:14 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(16) 4,4'-DDD (A)

25.97min 2.786ng/ml m

response 23613

(16) 4,4'-DDD #2 (A)

29.71min 3.006ng/ml m

response 26668

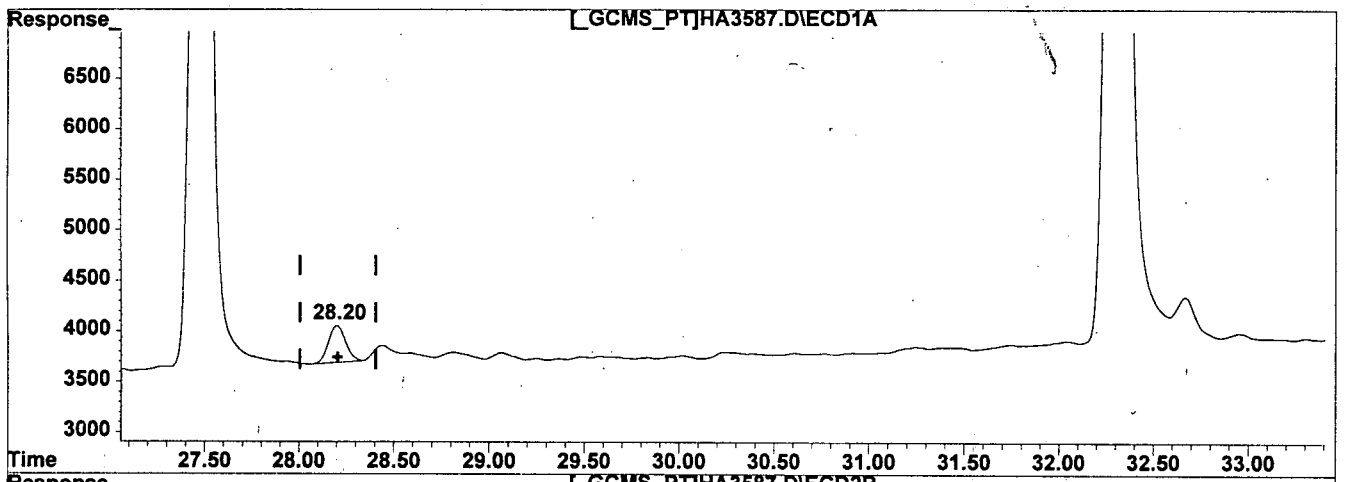
(+) = Expected Retention Time

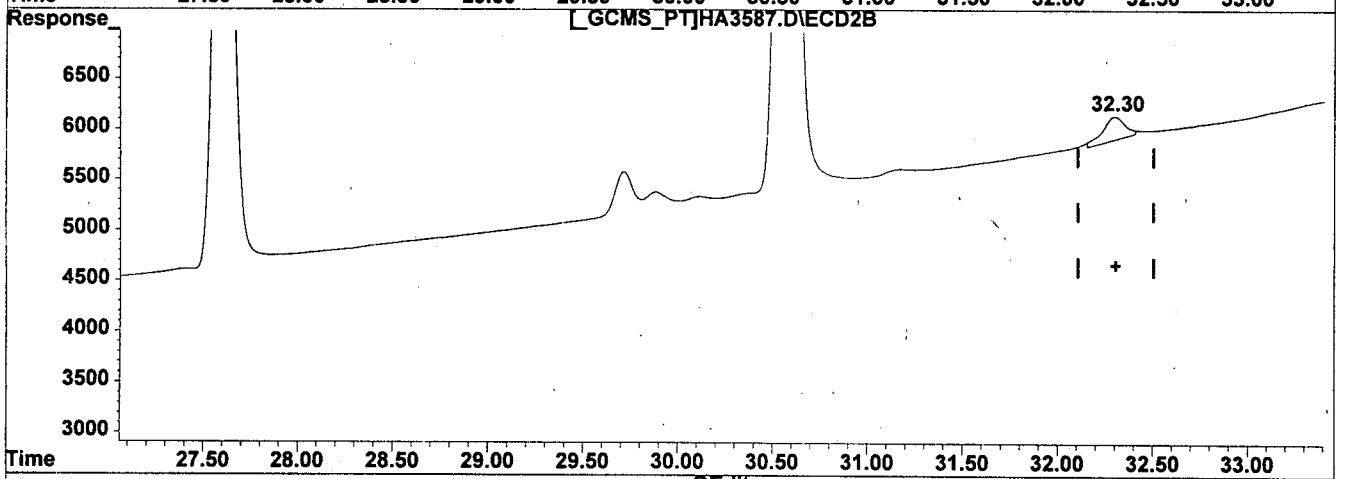
HA3587.D CLP_8.M Tue Mar 31 17:18:31 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3587.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA_H\HA3587.D\ECD2B.CH
Acq On : 25 Mar 98 13:47 Operator:
Sample : PEM02 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 15:14 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(18) Endrin aldehyde (B)

28.20min 2.143ng/ml

response 22997

(18) Endrin aldehyde #2 (B)

32.30min 1.750ng/ml m

response 18851

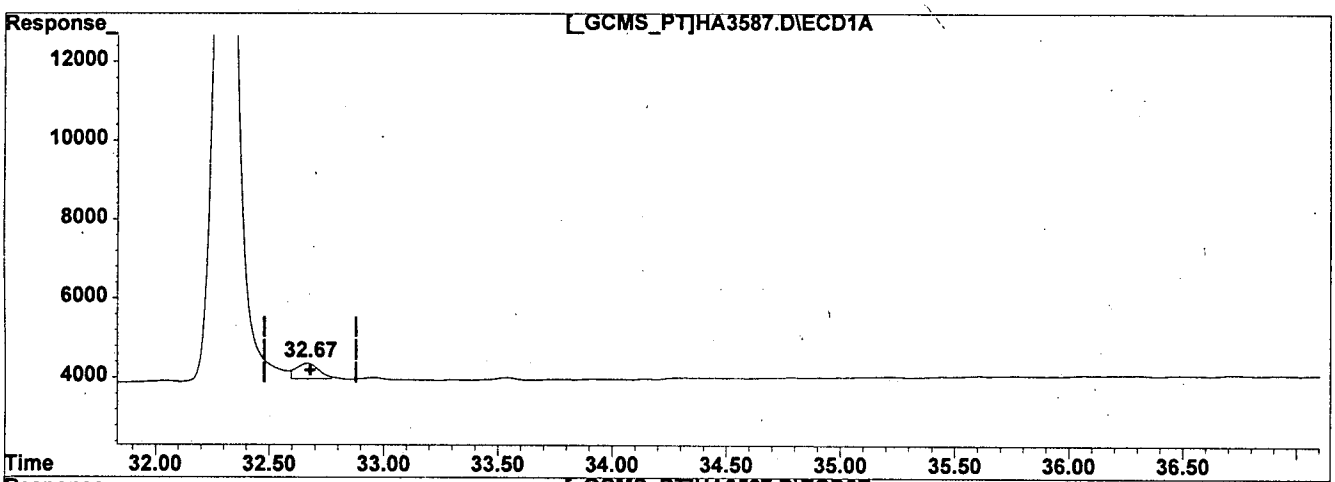
(+) = Expected Retention Time

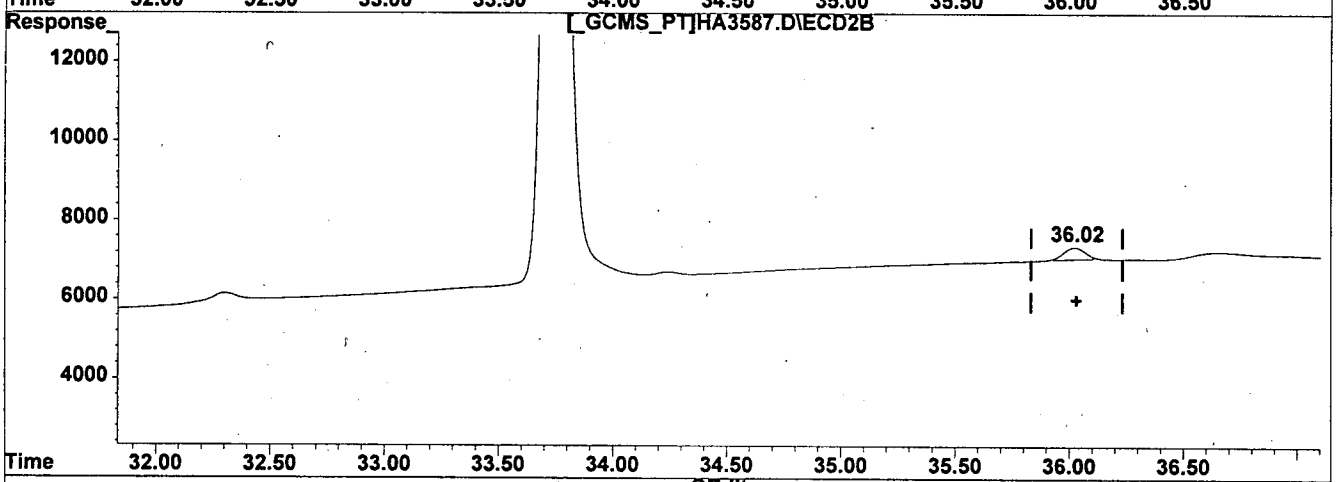
HA3587.D CLP_8.M Tue Mar 31 17:18:51 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3587.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA_H\HA3587.D\ECD2B.CH
Acq On : 25 Mar 98 13:47 Operator:
Sample : PEM02 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 15:14 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(21) Endrin ketone (B)

32.67min 2.419ng/ml m

response 26335

(21) Endrin ketone #2 (B)

36.02min 1.790ng/ml m

response 19691

(+) = Expected Retention Time

HA3587.D CLP_8.M Tue Mar 31 17:19:07 1998 RPT1

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3601.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3601.D\ECD2B.CH
Acq On : 26 Mar 98 17:49 Operator:
Sample : PEM03 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 15:50 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.41	10.20	309745	242630	18.978	19.303	0.02
Spiked Amount 40.000 Range 60 - 150 Recovery =					47.45%#	48.26%#	
2) SA Decachlorobiphen	39.46	41.51	392139	451474	17.655	17.002	0.02
Spiked Amount 40.000 Range 60 - 150 Recovery =					44.14%#	42.51%#	
Target Compounds							
2) A alpha-BHC	11.06	14.35	96913	86815	7.516m	7.555m	0.01
3) MA gamma-BHC (Linda	12.99	16.45	101045	90837	7.599m	7.652m	
5) B beta-BHC	14.21	20.57	74082	65297	9.374	10.219	
12) B 4,4'-DDE	22.67	25.53	19928	15778	1.818	1.524m	
14) MA Endrin	25.04	27.58	511879	499540	38.070m	37.792m	0.05
15) A 4,4'-DDD	25.97	29.70	15368	20389	1.814	2.298m#	
17) MA 4,4'-DDT	27.47	30.55	931384	961663	98.389	99.419	0.10
18) B Endrin aldehyde	28.19	32.28	24395	18459	2.273	1.714m	
20) A Methoxychlor	32.30	33.73	1272091	1684352	221.037	216.223	0.25
21) B Endrin ketone	32.65	36.00	25919	18866	2.381m	1.715m#	
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	

o/p Breakdown
DDT 3.63L 3.8L
Endrin 9.31 6.86
Total 12.94 10.68

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3601.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3601.D\ECD2B.CH
Acq On : 26 Mar 98 17:49 Operator:
Sample : PEM03 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 15:50 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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

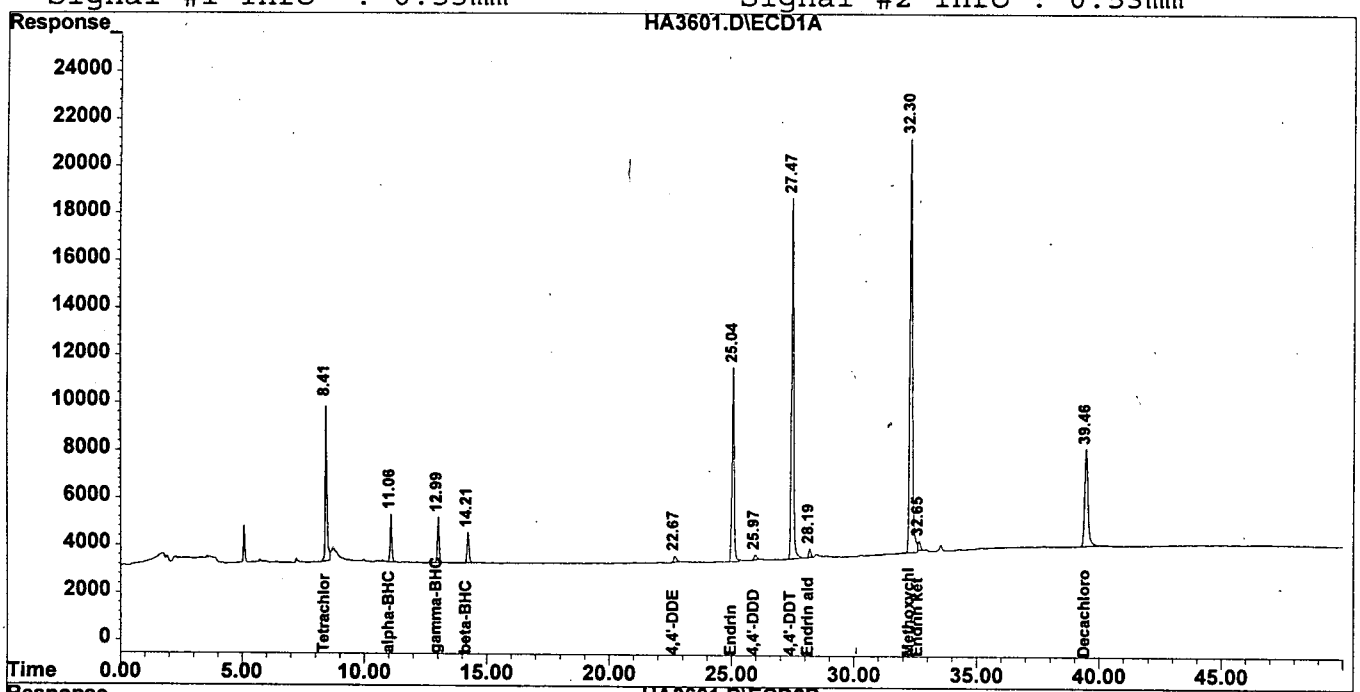
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

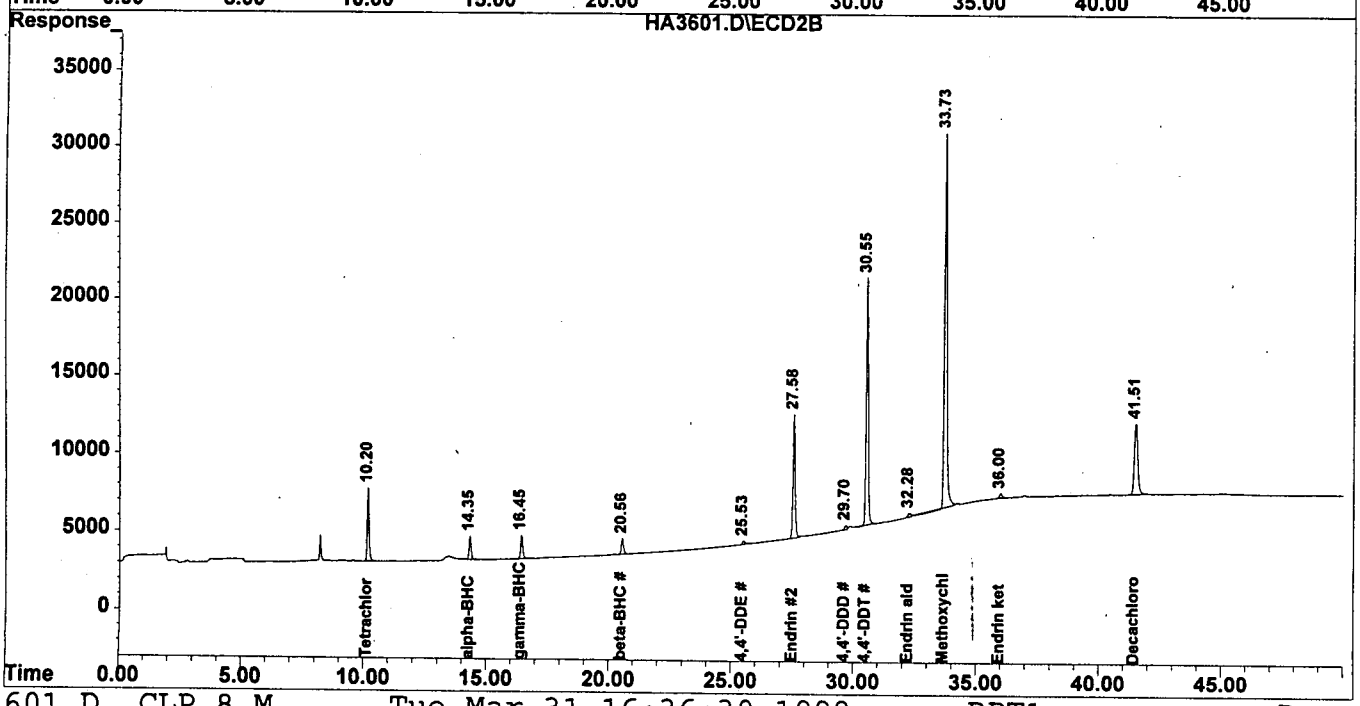
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3601.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3601.D\ECD2B.CH
Acq On : 26 Mar 98 17:49 Operator:
Sample : PEM03 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 15:50 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

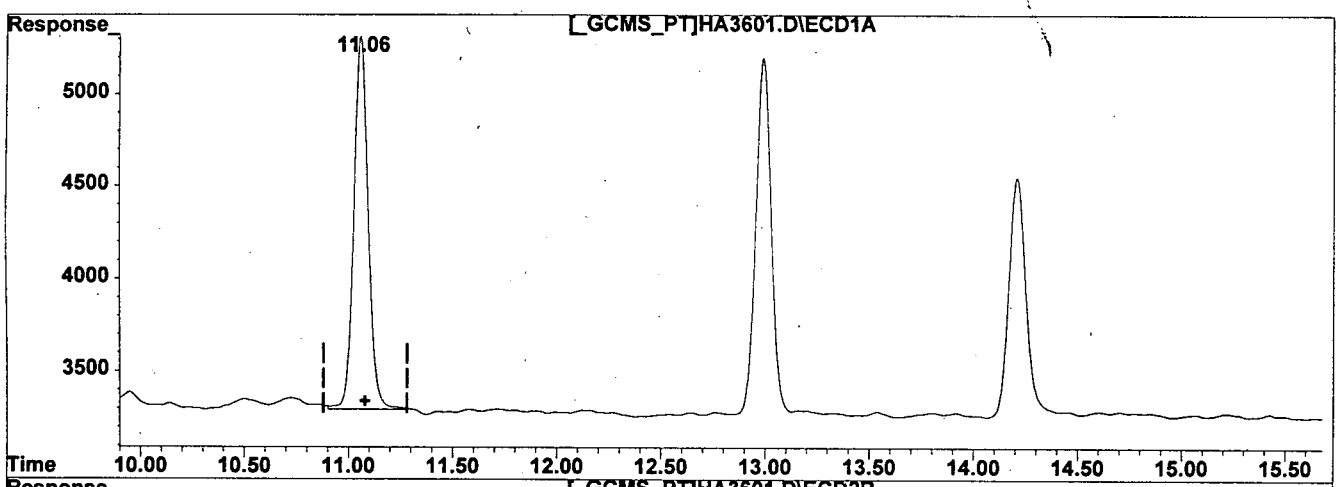


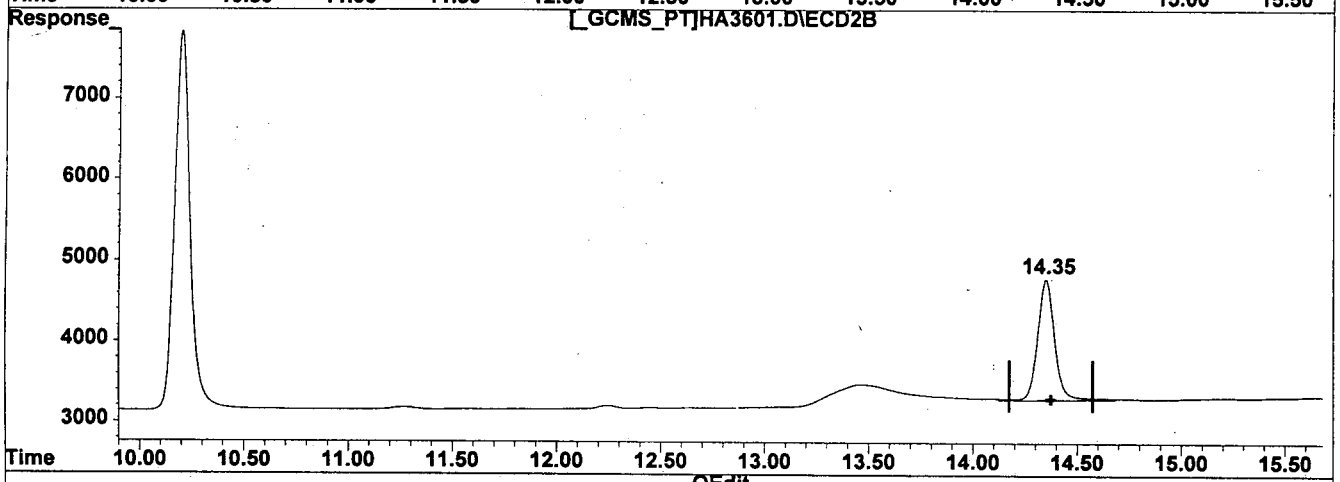


Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3601.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3601.D\ECD2B.CH
Acq On : 26 Mar 98 17:49 Operator:
Sample : PEM03 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 15:50 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(2) alpha-BHC (A)

11.06min 7.516ng/ml m

response 96913

(2) alpha-BHC #2 (A)

14.35min 7.555ng/ml m

response 86815

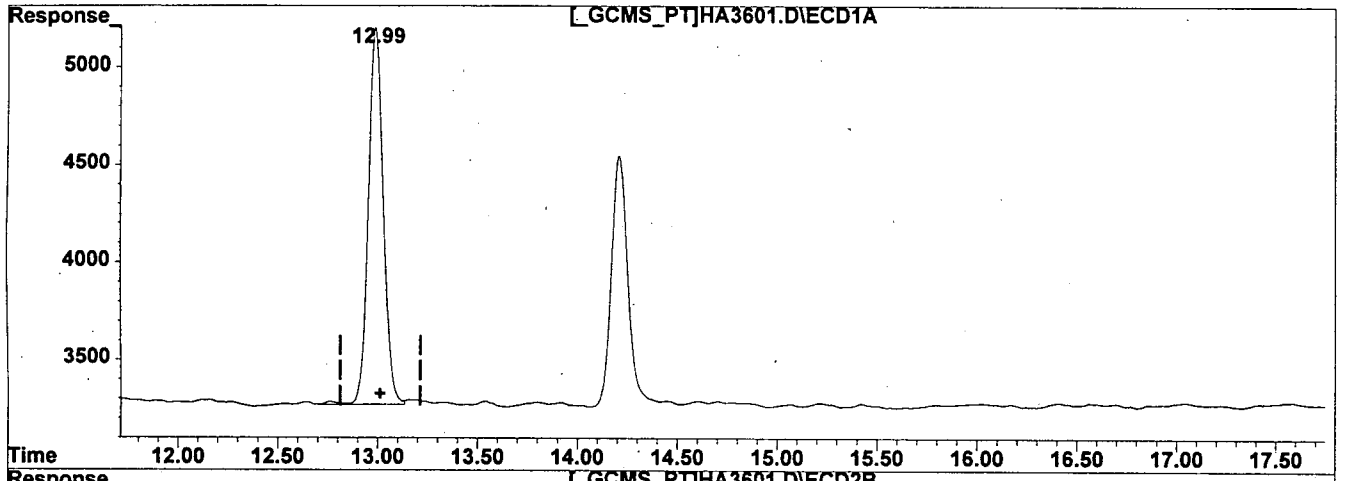
(+) = Expected Retention Time

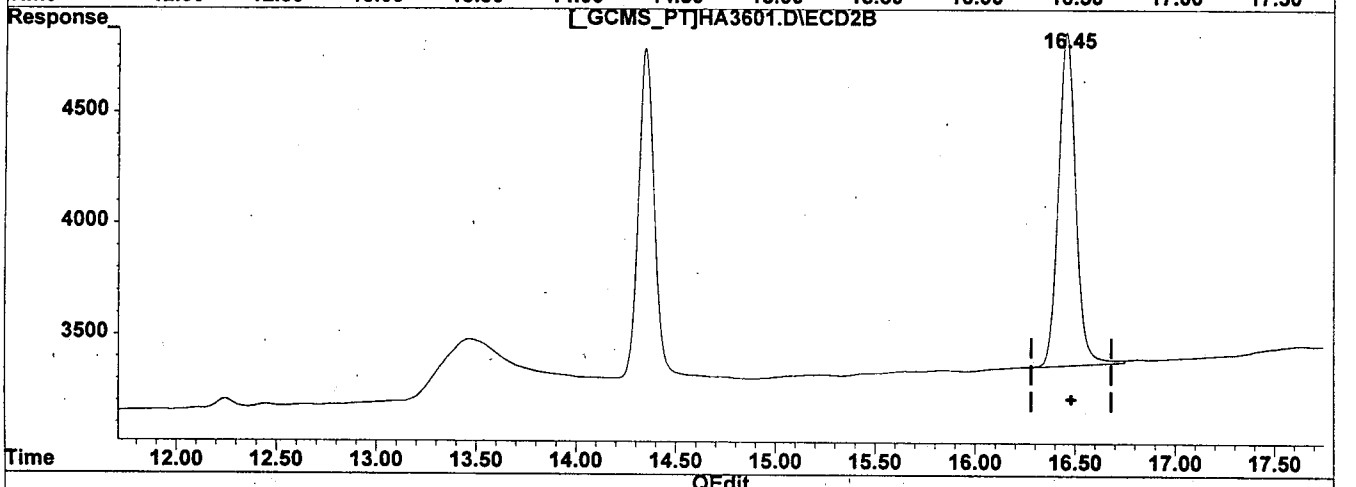
HA3601.D CLP_8.M Tue Mar 31 17:25:53 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3601.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3601.D\ECD2B.CH
Acq On : 26 Mar 98 17:49 Operator:
Sample : PEM03 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 15:50 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(3) gamma-BHC (Lindane) (MA)

12.99min 7.599ng/ml m

response 101045

(3) gamma-BHC (Lindane) #2 (MA)

16.45min 7.652ng/ml m

response 90837

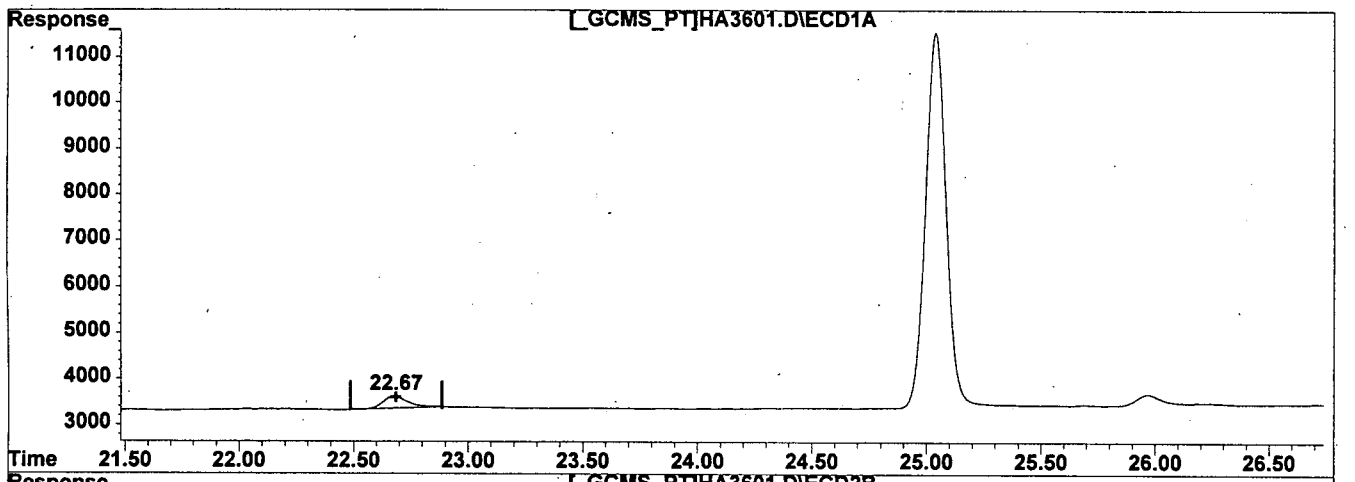
(+) = Expected Retention Time

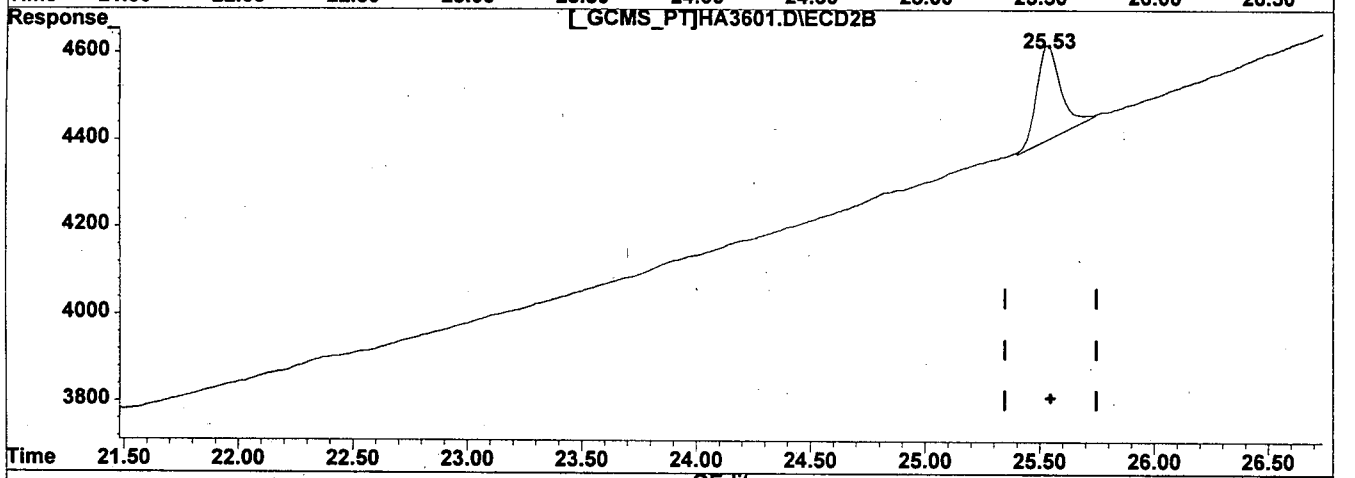
HA3601.D CLP_8.M Tue Mar 31 17:26:02 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3601.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3601.D\ECD2B.CH
Acq On : 26 Mar 98 17:49 Operator:
Sample : PEM03 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 15:50 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(12) 4,4'-DDE (B)

22.67min 1.818ng/ml

response 19928

(12) 4,4'-DDE #2 (B)

25.53min 1.524ng/ml m

response 15778

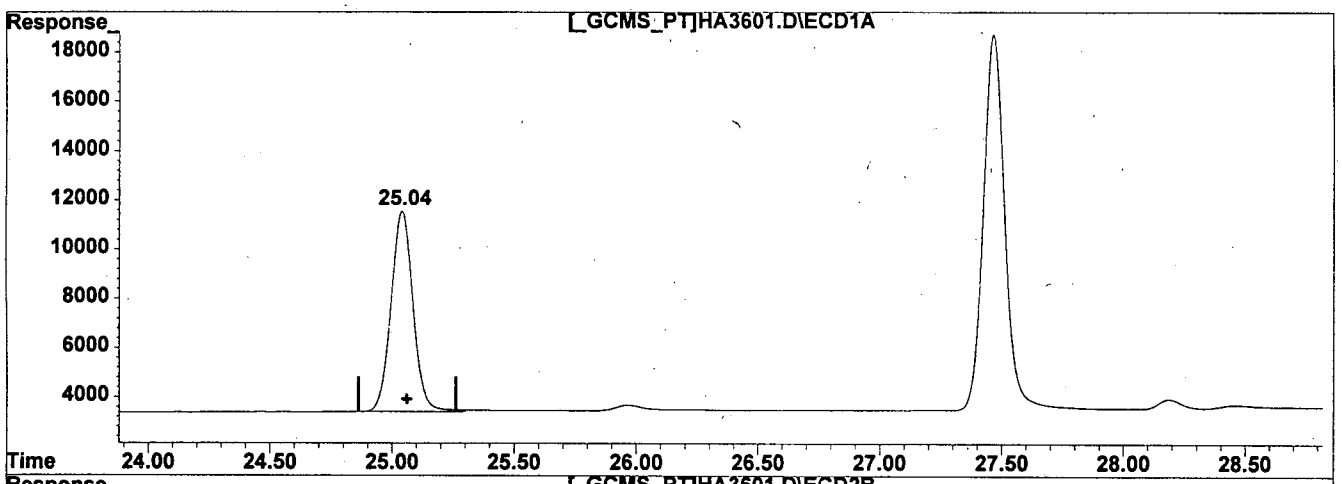
(+) = Expected Retention Time

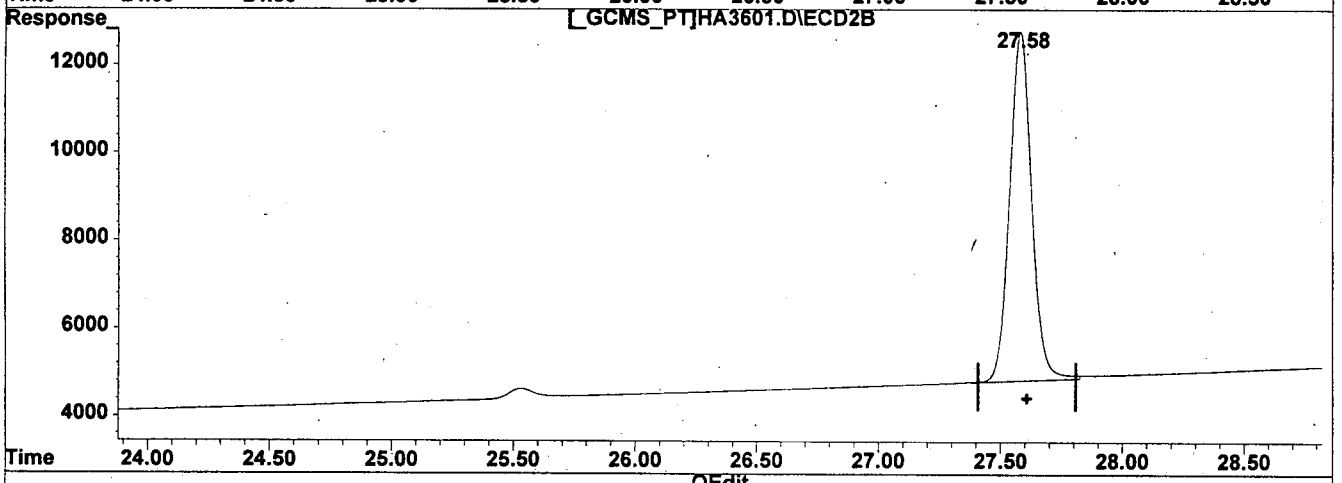
HA3601.D CLP_8.M Tue Mar 31 17:26:13 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3601.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3601.D\ECD2B.CH
Acq On : 26 Mar 98 17:49 Operator:
Sample : PEM03 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 15:50 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(14) Endrin (MA)

25.04min 38.070ng/ml m

response 511879

(14) Endrin #2 (MA)

27.58min 37.792ng/ml m

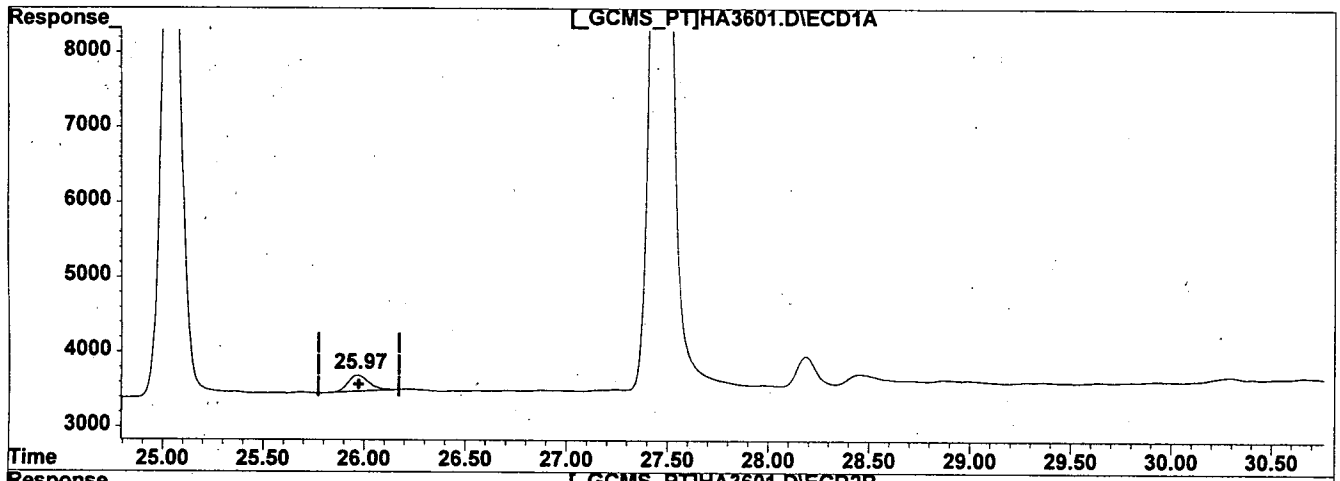
response 499540

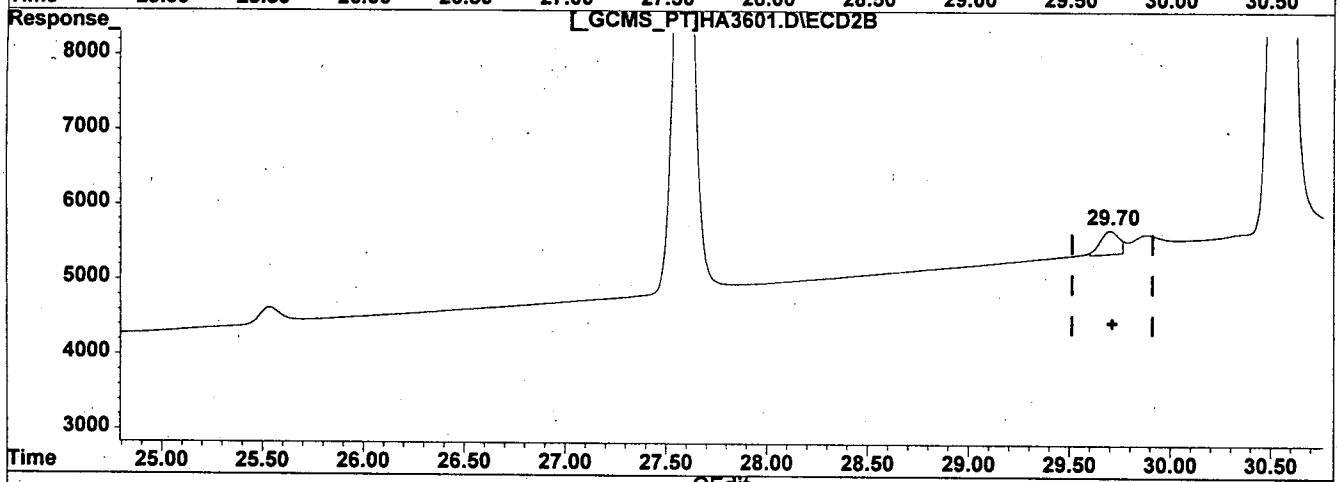
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3601.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3601.D\ECD2B.CH
Acq On : 26 Mar 98 17:49 Operator:
Sample : PEM03 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 15:50 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(16) 4,4'-DDD (A)

25.97min 1.814ng/ml

response 15368

(16) 4,4'-DDD #2 (A)

29.70min 2.298ng/ml m

response 20389

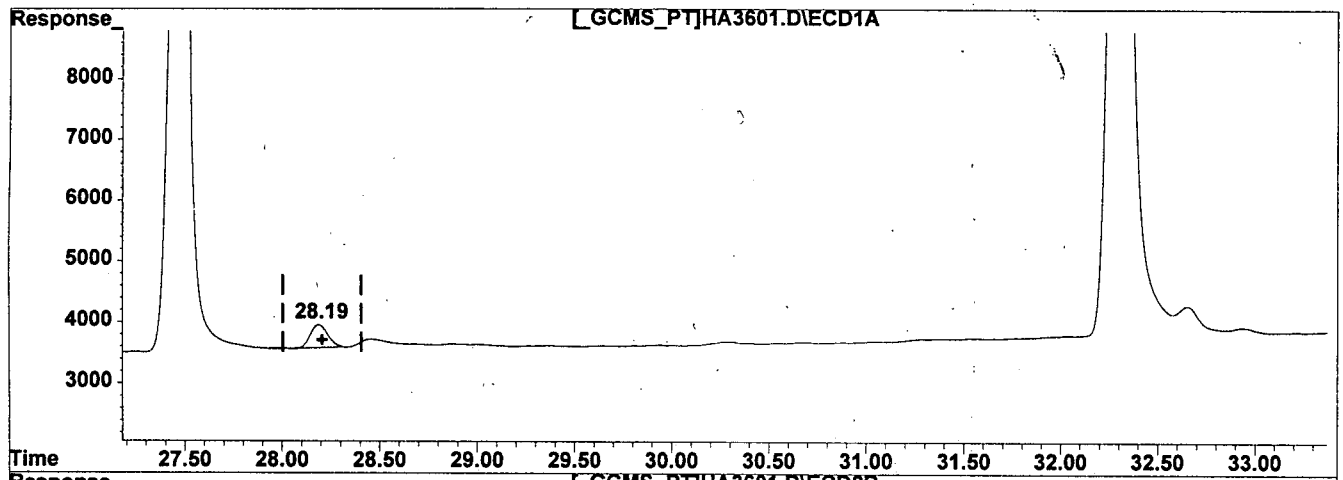
(+) = Expected Retention Time

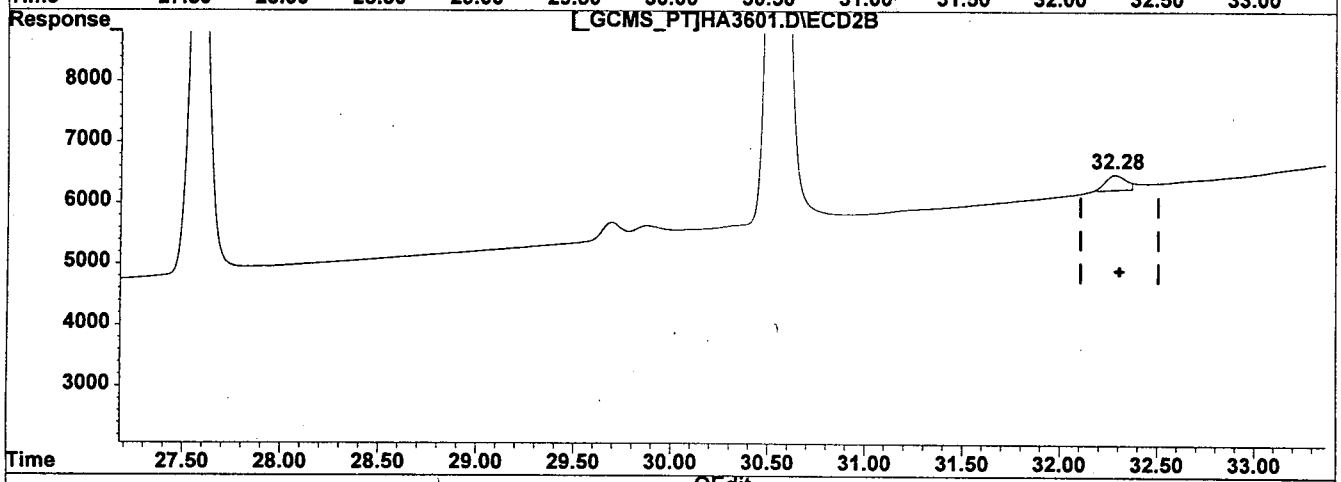
HA3601.D CLP_8.M Tue Mar 31 17:26:30 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3601.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3601.D\ECD2B.CH
Acq On : 26 Mar 98 17:49 Operator:
Sample : PEM03 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 15:50 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(18) Endrin aldehyde (B)

28.19min 2.273ng/ml

response 24395

(18) Endrin aldehyde #2 (B)

32.28min 1.714ng/ml m

response 18459

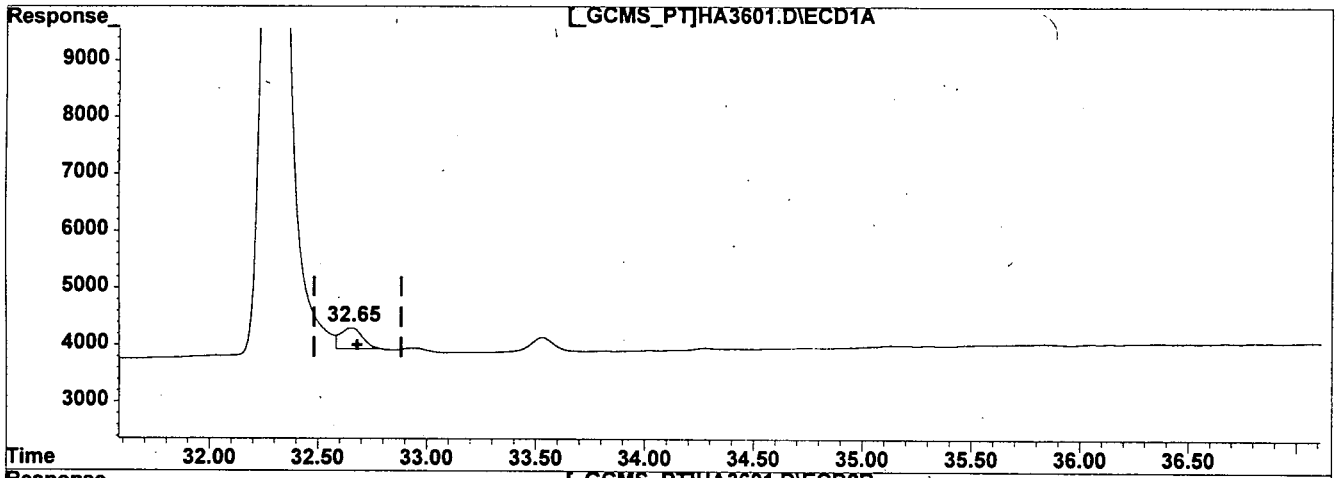
(+) = Expected Retention Time

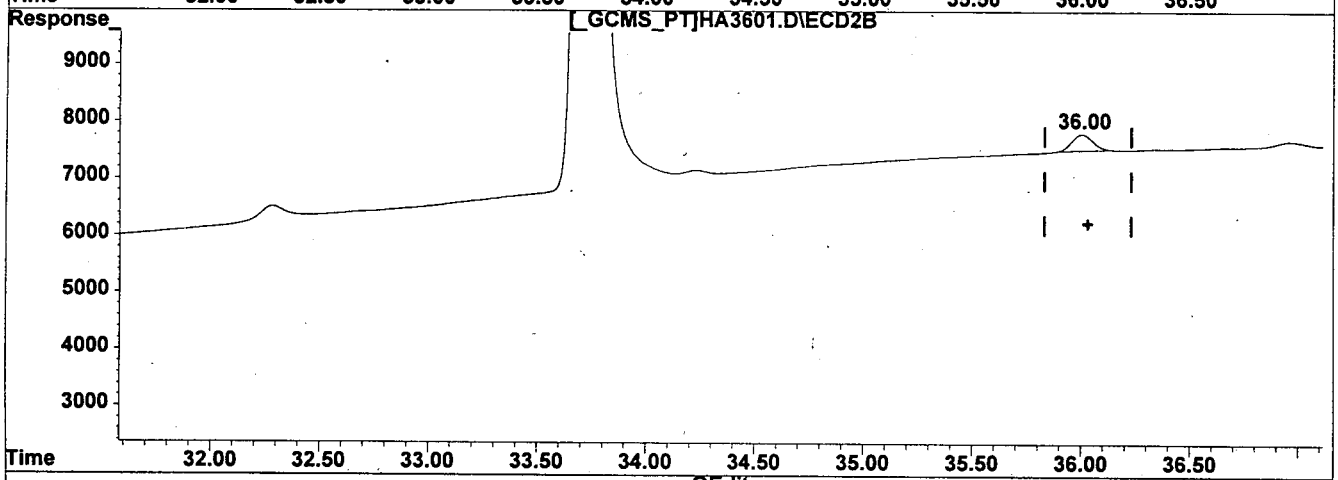
HA3601.D CLP_8.M Tue Mar 31 17:26:42 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3601.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3601.D\ECD2B.CH
Acq On : 26 Mar 98 17:49 Operator:
Sample : PEM03 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 15:50 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(21) Endrin ketone (B)

32.65min 2.381ng/ml m

response 25919

(21) Endrin ketone #2 (B)

36.00min 1.715ng/ml m

response 18866

(+) = Expected Retention Time

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3623.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3623.D\ECD2B.CH
Acq On : 30 Mar 98 11:51 Operator:
Sample : PEM05 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 17:16 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.44	10.22	299194	257523	18.332	20.488	no Int 0.02
Spiked Amount 40.000 Range 60 - 150 Recovery =					45.83%#	51.22%#	
2) SA Decachlorobiphen	39.48	41.53	426803	478916	19.215	18.036	0.02
Spiked Amount 40.000 Range 60 - 150 Recovery =					48.04%#	45.09%#	
Target Compounds							
2) A alpha-BHC	11.10	14.37	101951	90337	7.906m	7.861m	0.01
3) MA gamma-BHC (Linda	13.03	16.48	104233	89790	7.839	7.563	
6) B beta-BHC	14.25	20.59	78066	64883	9.878	10.154	
2) B 4,4'-DDE	22.71	25.55	17822	17155	1.626	1.657m	
14) MA Endrin	25.08	27.61	535022	522987	39.791m	39.566m	0.05
16) A 4,4'-DDD	25.99	29.72	20649	17016	2.437	1.918m	
7) MA 4,4'-DDT	27.50	30.57	1009354	999096	106.626	103.289	0.10
18) B Endrin aldehyde	28.22	32.30	22565	14874	2.103	1.381m#	
20) A Methoxychlor	32.31	33.74	1233235	1738801	214.285	223.212	0.25
1) B Endrin ketone	32.68	36.02	28087	18643	2.580	1.695m#	
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
Sig 1 Sig 2
DDT 4.063 3.587
Endrin 9.37 6.15
total 13.43 9.73

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3623.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3623.D\ECD2B.CH
Acq On : 30 Mar 98 11:51 Operator:
Sample : PEM05 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 17:16 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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.
verage Toxaphene					0.000	0.000

3/31/98

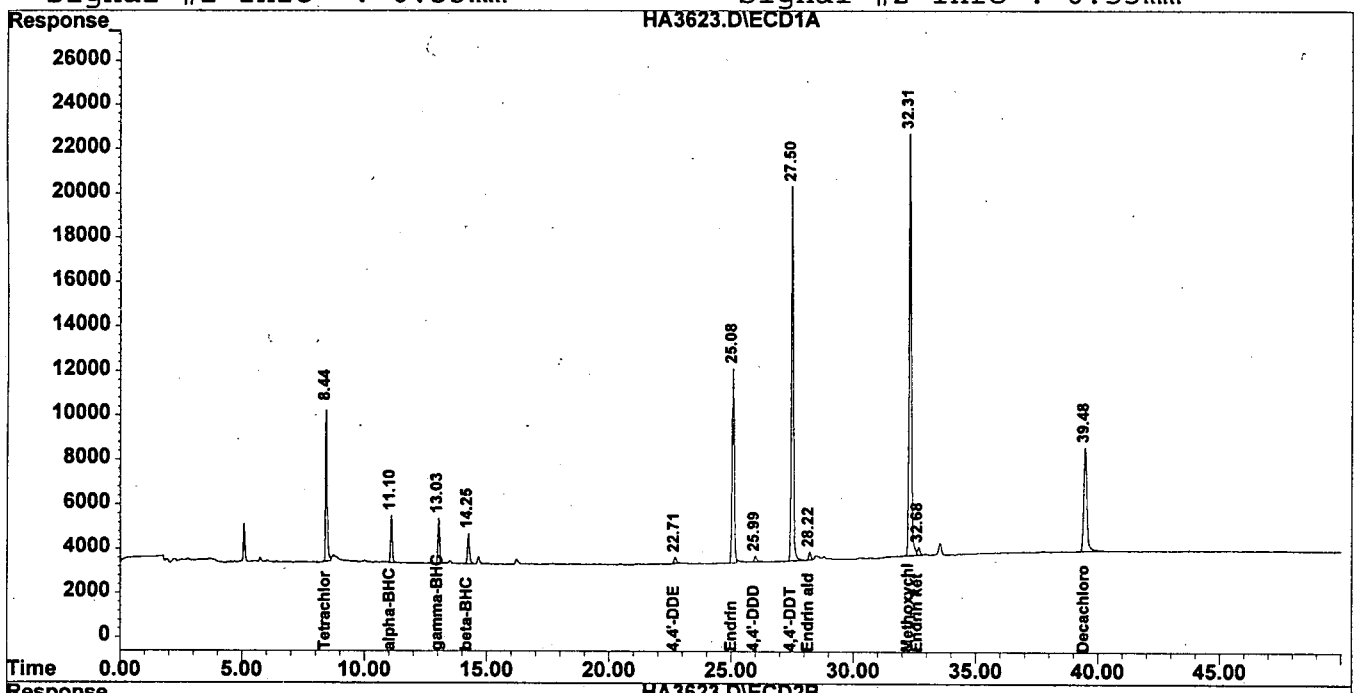
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

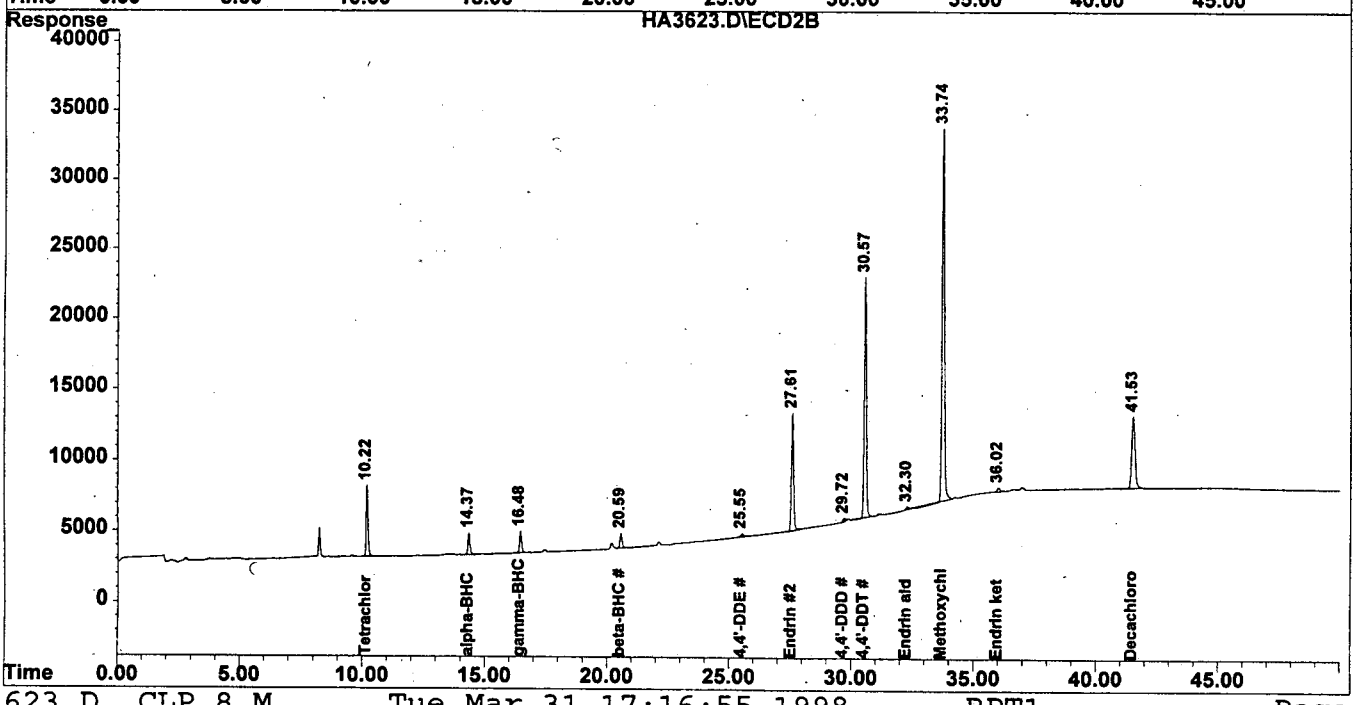
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3623.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3623.D\ECD2B.CH
Acq On : 30 Mar 98 11:51 Operator:
Sample : PEM05 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 17:16 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

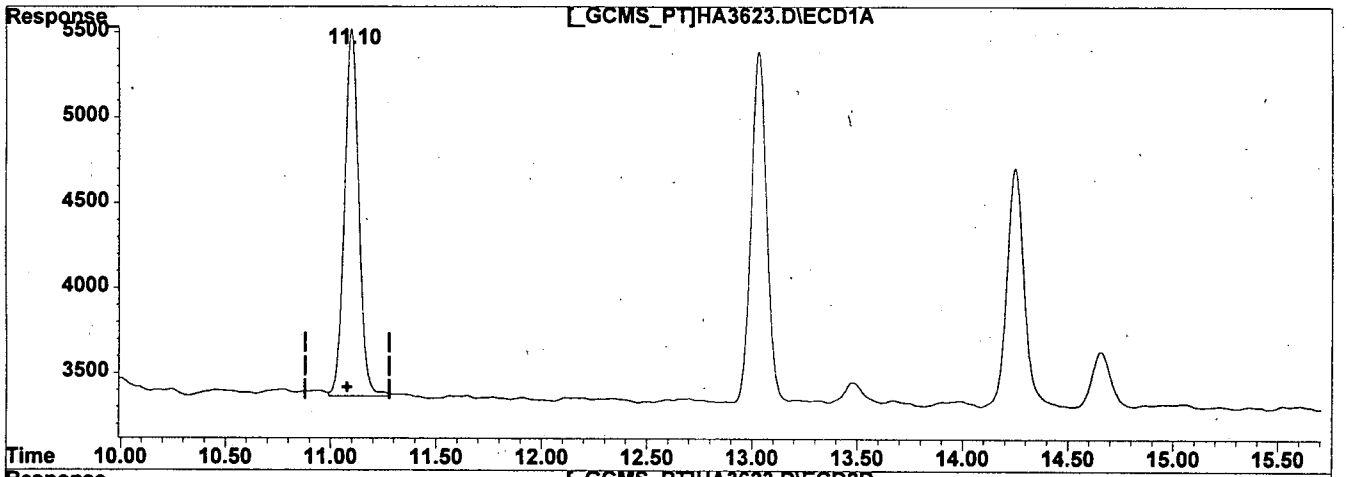


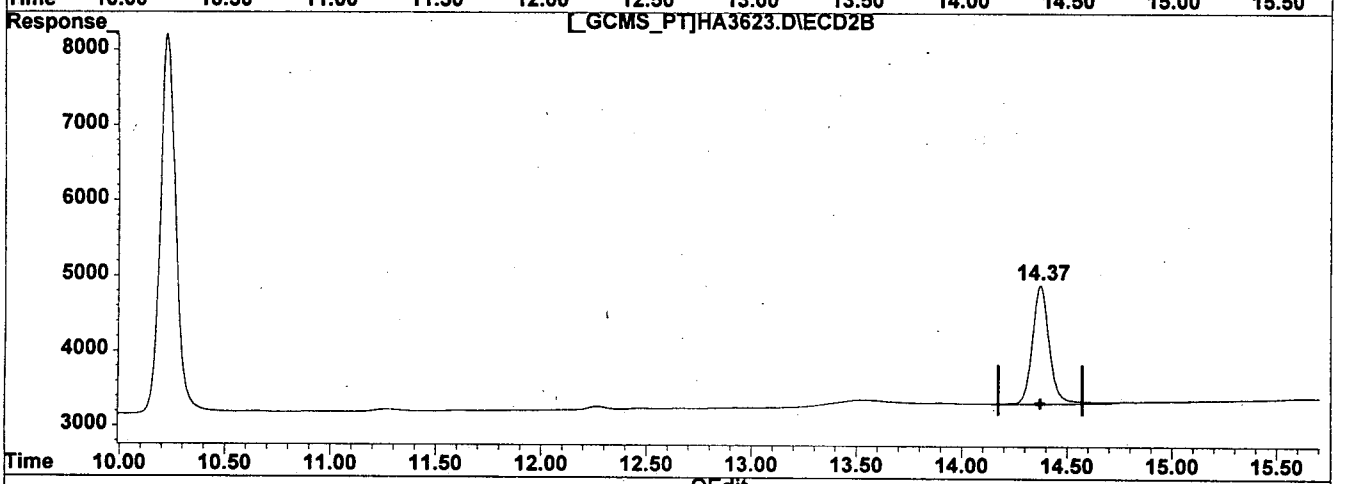


Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3623.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3623.D\ECD2B.CH
Acq On : 30 Mar 98 11:51 Operator:
Sample : PEM05 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 17:16 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(2) alpha-BHC (A)

11.10min 7.906ng/ml m

response 101951

(2) alpha-BHC #2 (A)

14.37min 7.861ng/ml m

response 90337

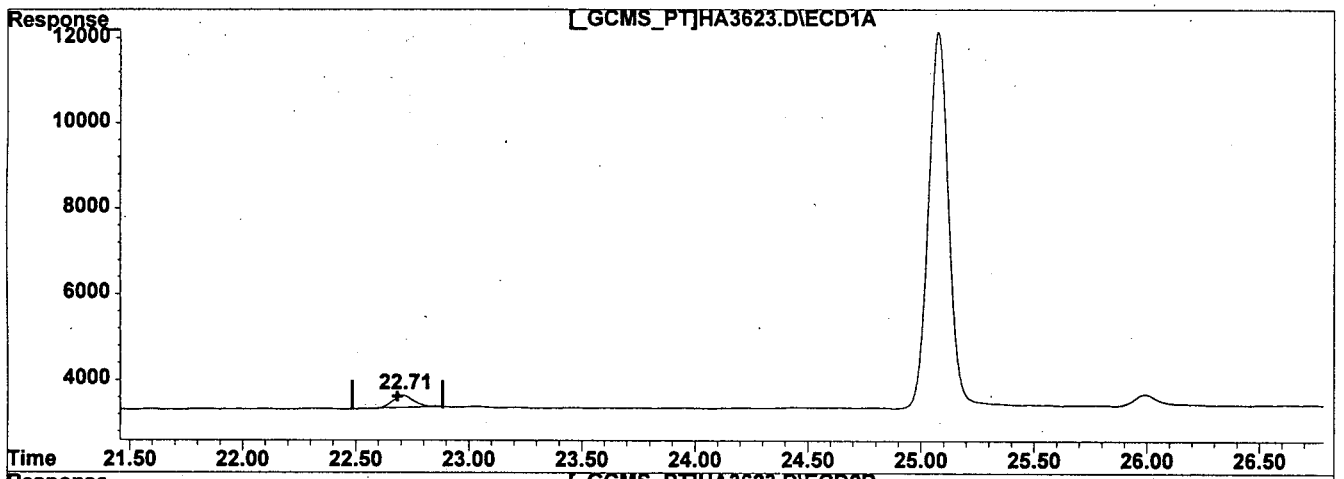
(+) = Expected Retention Time

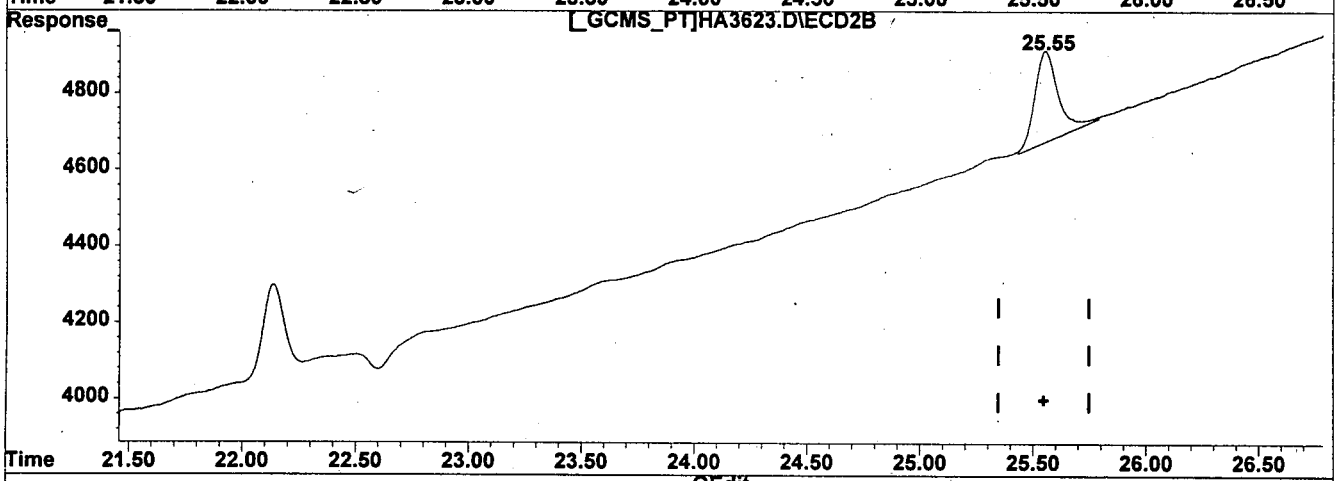
HA3623.D CLP_8.M Tue Mar 31 17:37:04 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3623.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3623.D\ECD2B.CH
Acq On : 30 Mar 98 11:51 Operator:
Sample : PEM05 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 17:16 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(12) 4,4'-DDE (B)

22.71min 1.626ng/ml

response 17822

(12) 4,4'-DDE #2 (B)

25.55min 1.657ng/ml m

response 17155

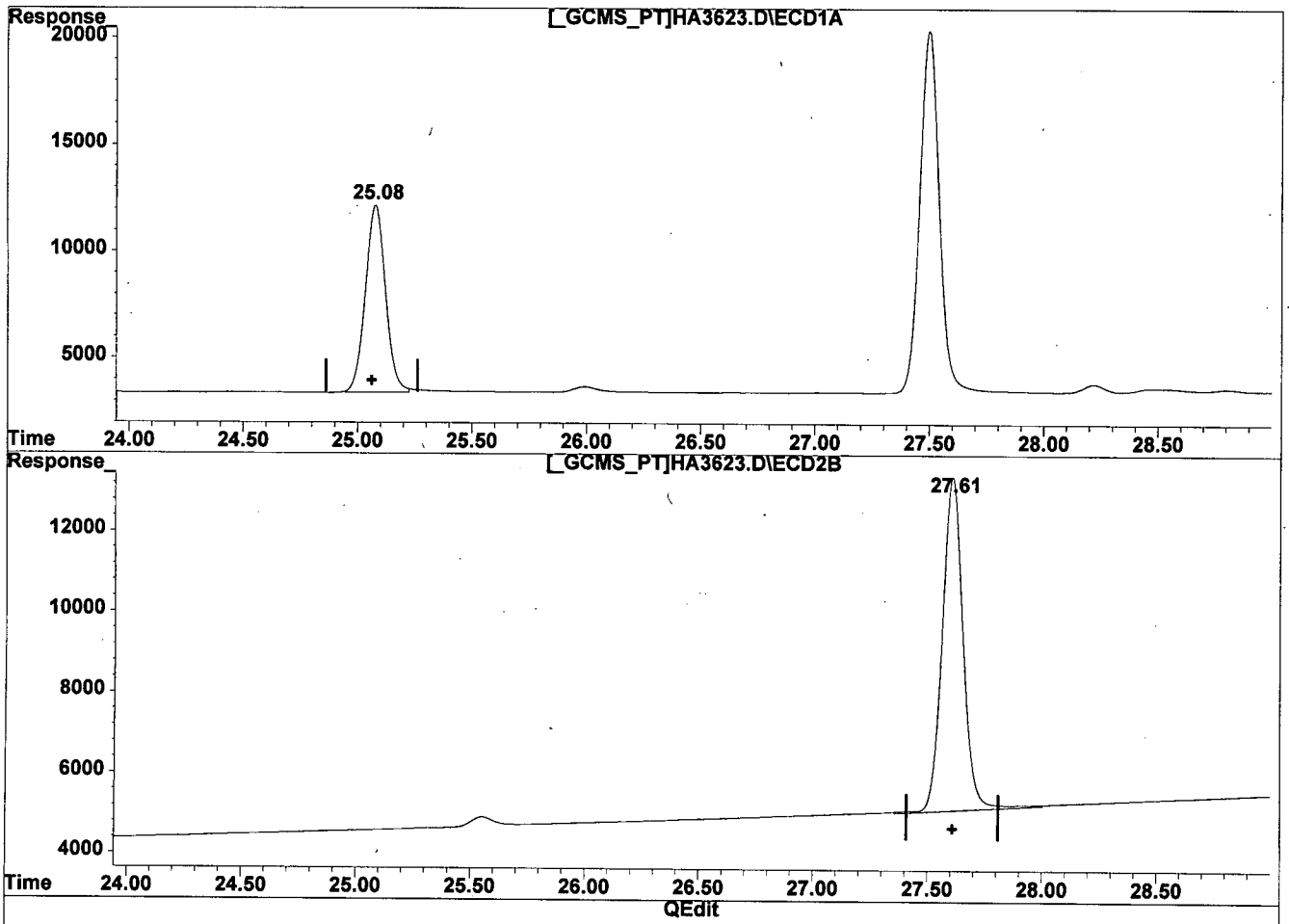
(+) = Expected Retention Time

HA3623.D CLP_8.M Tue Mar 31 17:37:13 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3623.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3623.D\ECD2B.CH
Acq On : 30 Mar 98 11:51 Operator:
Sample : PEM05 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 17:16 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration



(14) Endrin (MA)

25.08min 39.791ng/ml m

response 535022

(14) Endrin #2 (MA)

27.61min 39.566ng/ml m

response 522987

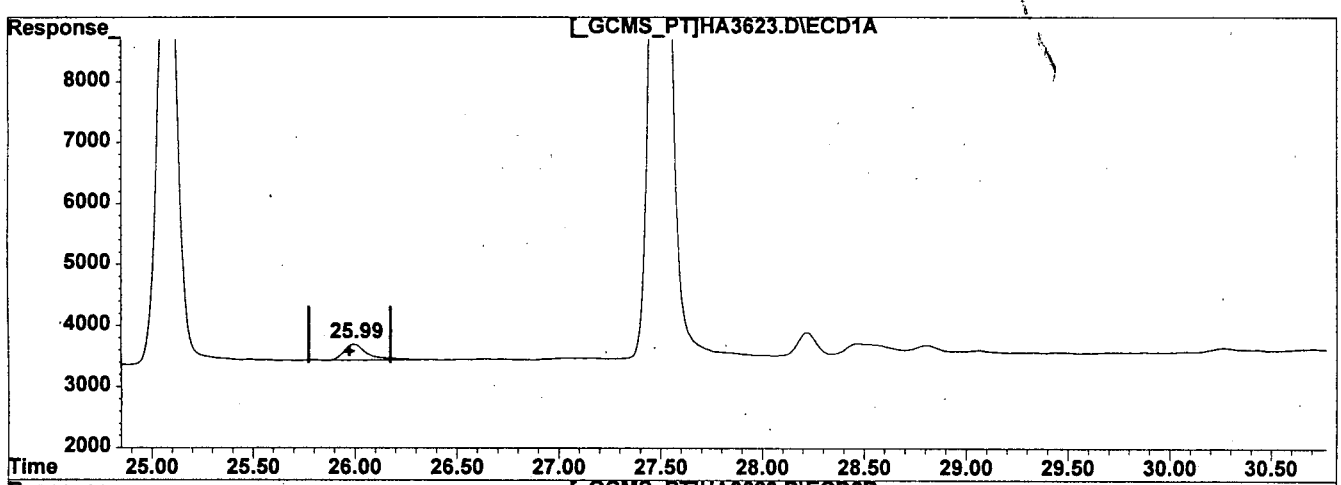
(+) = Expected Retention Time

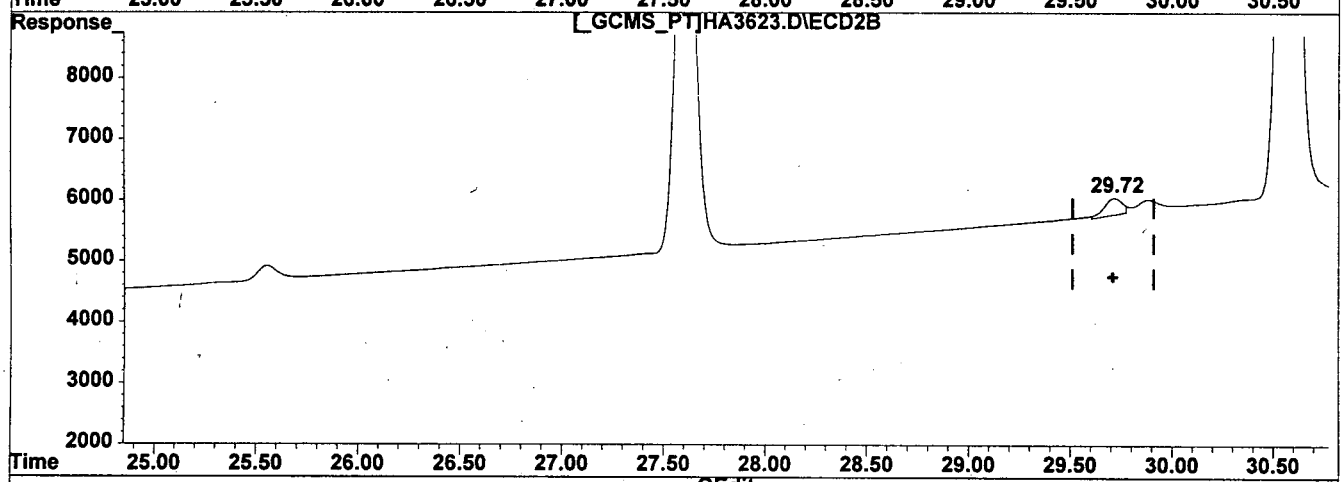
HA3623.D CLP_8.M Wed Apr 15 13:13:42 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3623.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3623.D\ECD2B.CH
Acq On : 30 Mar 98 11:51 Operator:
Sample : PEM05 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 17:16 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(16) 4,4'-DDD (A)

25.99min 2.437ng/ml

response 20649

(16) 4,4'-DDD #2 (A)

29.72min 1.918ng/ml m

response 17016

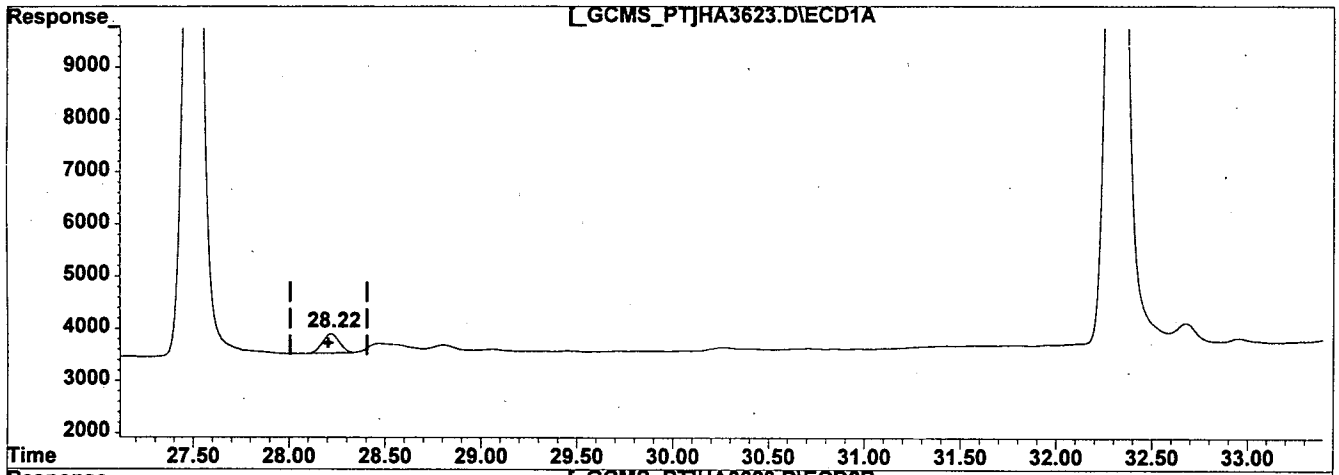
(+) = Expected Retention Time

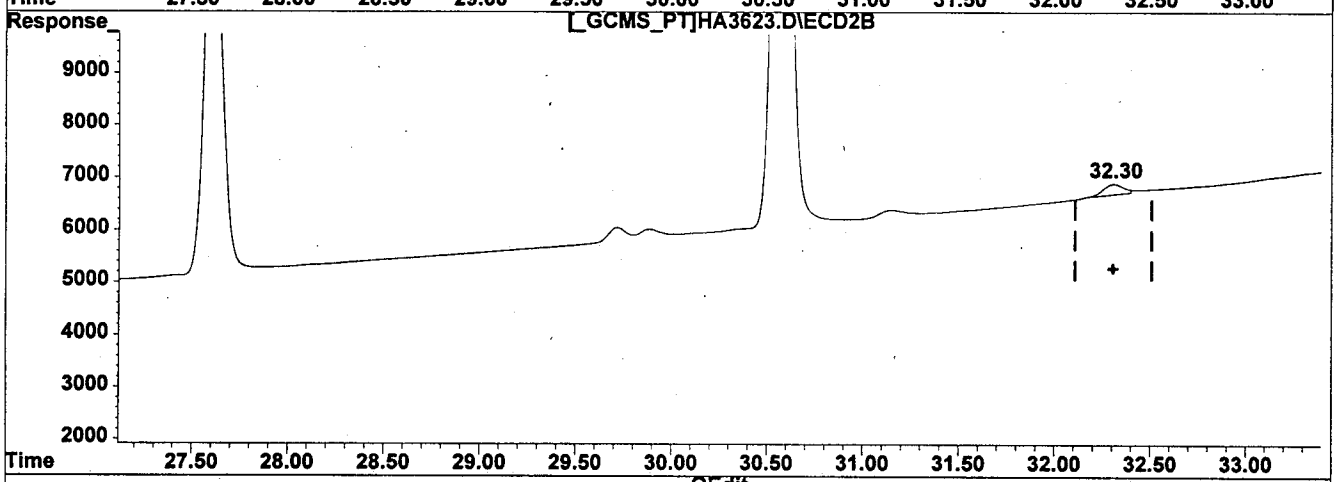
HA3623.D CLP_8.M Tue Mar 31 17:37:29 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3623.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3623.D\ECD2B.CH
Acq On : 30 Mar 98 11:51 Operator:
Sample : PEM05 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 17:16 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(18) Endrin aldehyde (B)

28.22min 2.103ng/ml

response 22565

(18) Endrin aldehyde #2 (B)

32.30min 1.381ng/ml m

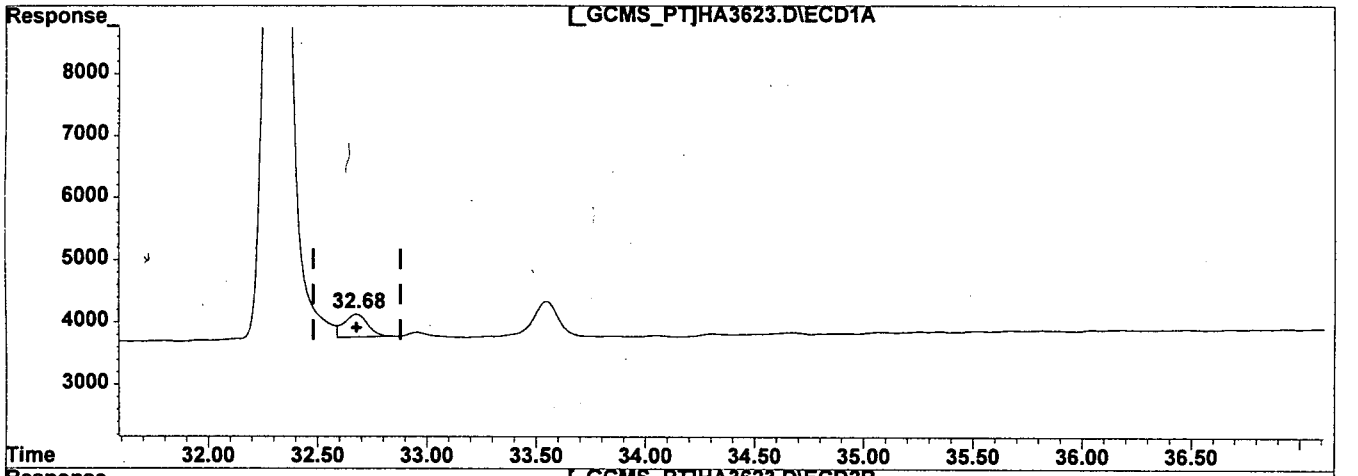
response 14874

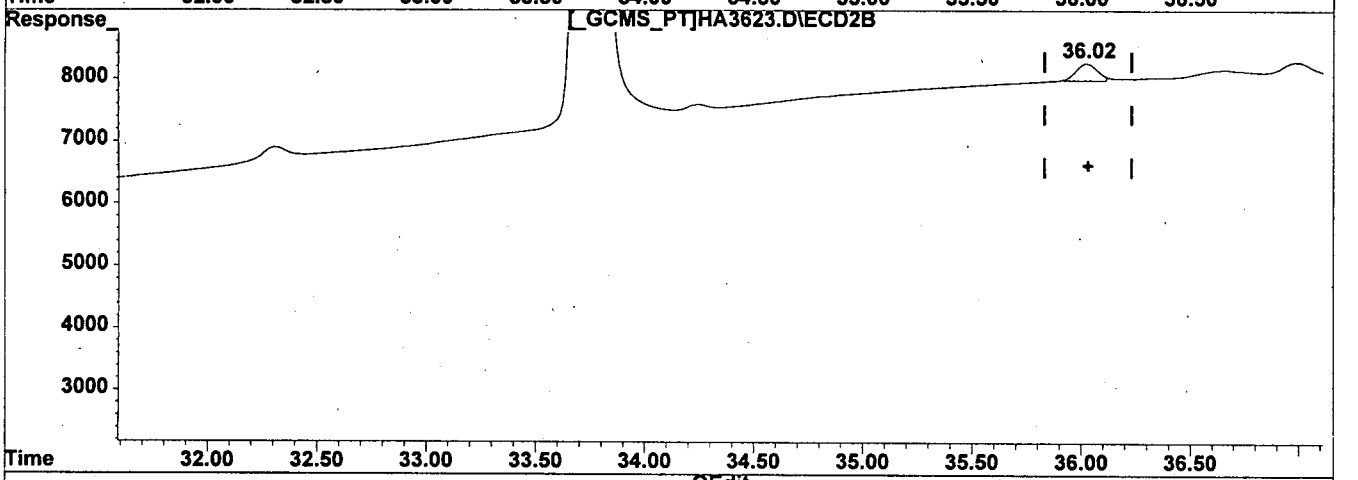
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3623.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3623.D\ECD2B.CH
Acq On : 30 Mar 98 11:51 Operator:
Sample : PEM05 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Mar 31 17:16 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(21) Endrin ketone (B)

32.68min 2.580ng/ml

response 28087

(21) Endrin ketone #2 (B)

36.02min 1.695ng/ml m

response 18643

(+) = Expected Retention Time

HA3623.D CLP_8.M Tue Mar 31 17:38:00 1998 RPT1

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3625.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3625.D\ECD2B.CH
Acq On : 3 Apr 98 19:10 Operator:
Sample : PEM06 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 5 13:13 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.42	10.22	268255	258561	16.436	20.570 # 0.02 no Ins
Spiked Amount 40.000 Range 60 - 150 Recovery =					41.09%#	51.43%#
22) SA Decachlorobiphen	39.47	41.52	414928	483670	18.681	18.215m
Spiked Amount 40.000 Range 60 - 150 Recovery =					46.70%#	45.54%#
Target Compounds						
2) A alpha-BHC	11.08	14.36	131991	96596	10.236	8.406m
3) MA gamma-BHC (Linda	13.01	16.47	101888	132482	7.662	11.160 # 0.01
5) B beta-BHC	14.23	20.58	75426	65623	9.544	10.270
12) B 4,4'-DDE	22.69	25.54	36001	27507	3.284m	2.657m
14) MA Endrin	25.06	27.60	533731	519219	39.695m	39.280m 0.05
15) A 4,4'-DDD	25.98	29.71	15958	18434	1.883m	2.078m
17) MA 4,4'-DDT	27.48	30.56	915272	982312	96.687	101.554 0.10
18) B Endrin aldehyde	28.20	32.29	27808	23208	2.591	2.154m
20) A Methoxychlor	32.30	33.73	1058232	1691629	183.877	217.157 0.25
21) B Endrin ketone	32.67	36.01	28223	26705	2.592	2.428m
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
5.32 5.32
DDT 5.17 4.74
Endrin 10.37 ~~8.46~~ 9.16 4/16/98
Total 15.54 ~~13.60~~ 13.90

4/15/98

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3625.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3625.D\ECD2B.CH
Acq On : 3 Apr 98 19:10 Operator:
Sample : PEM06 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 5 13:13 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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

Dan 4/5/98

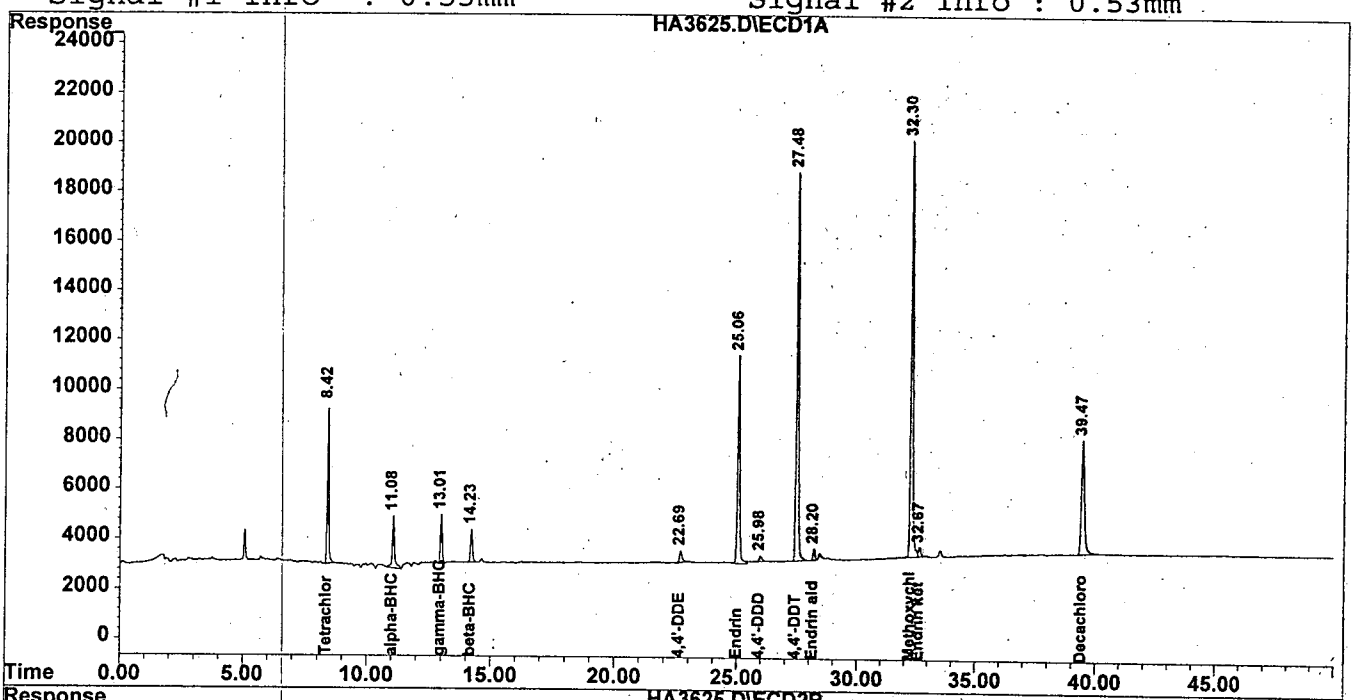
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

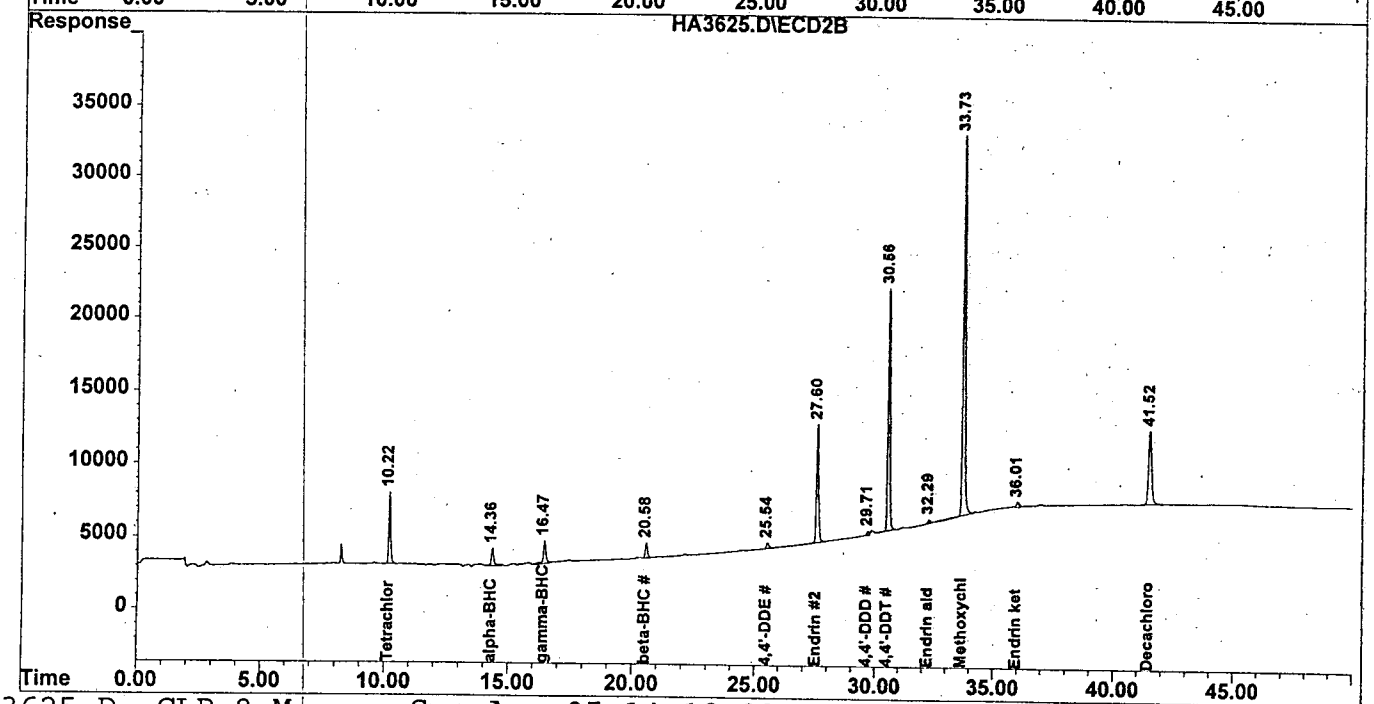
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3625.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3625.D\ECD2B.CH
Acq On : 3 Apr 98 19:10 Operator:
Sample : PEM06 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 5 13:13 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

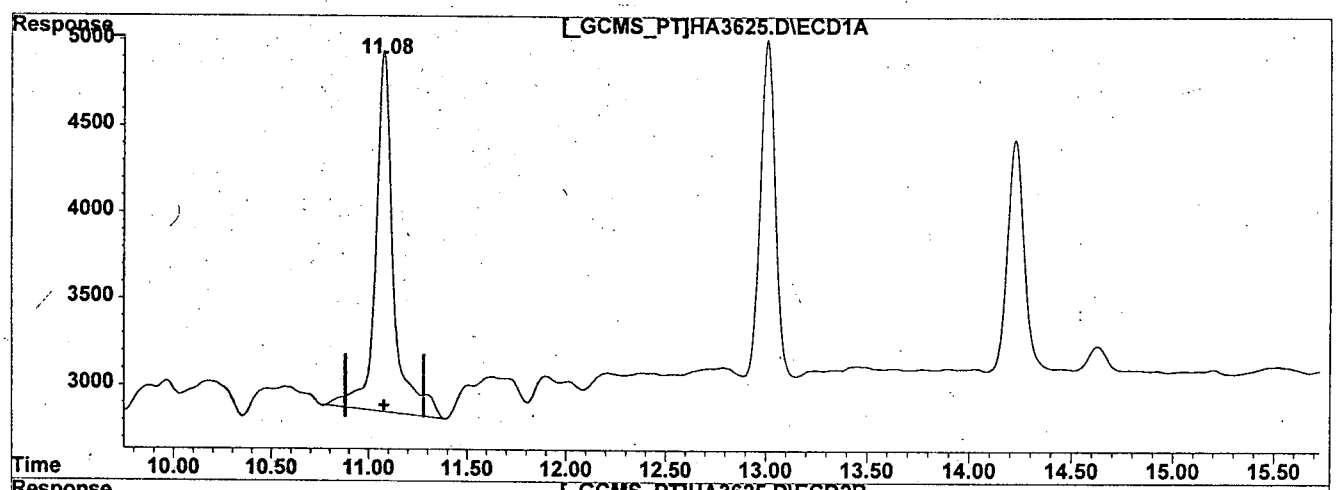


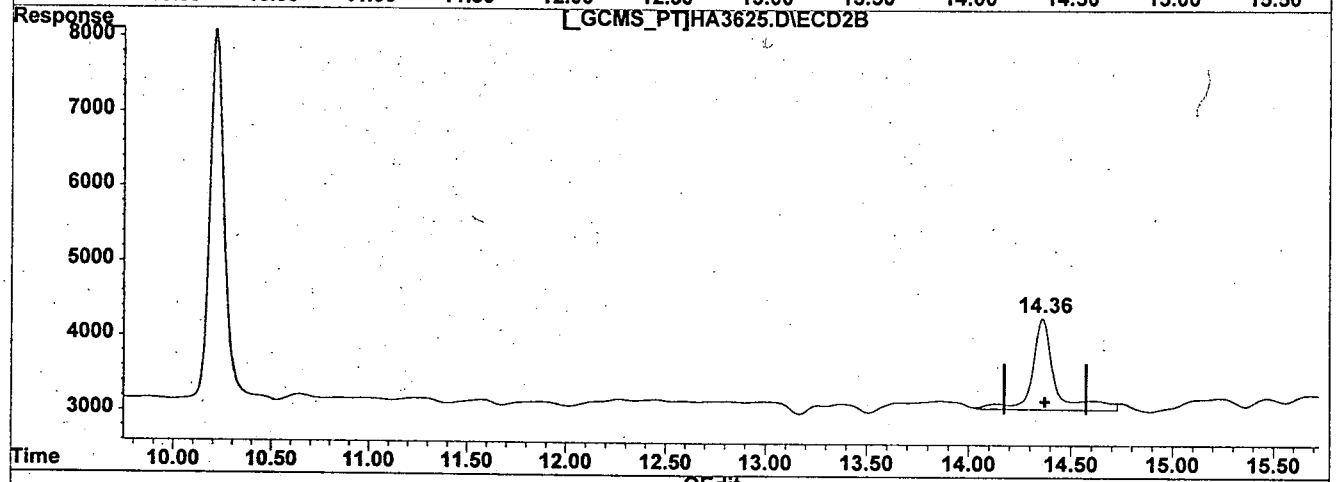


Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3625.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3625.D\ECD2B.CH
Acq On : 3 Apr 98 19:10 Operator:
Sample : PEM06 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 5 13:13 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(2) alpha-BHC (A)

11.08min 10.236ng/ml

response 131991

(2) alpha-BHC #2 (A)

14.36min 8.406ng/ml m

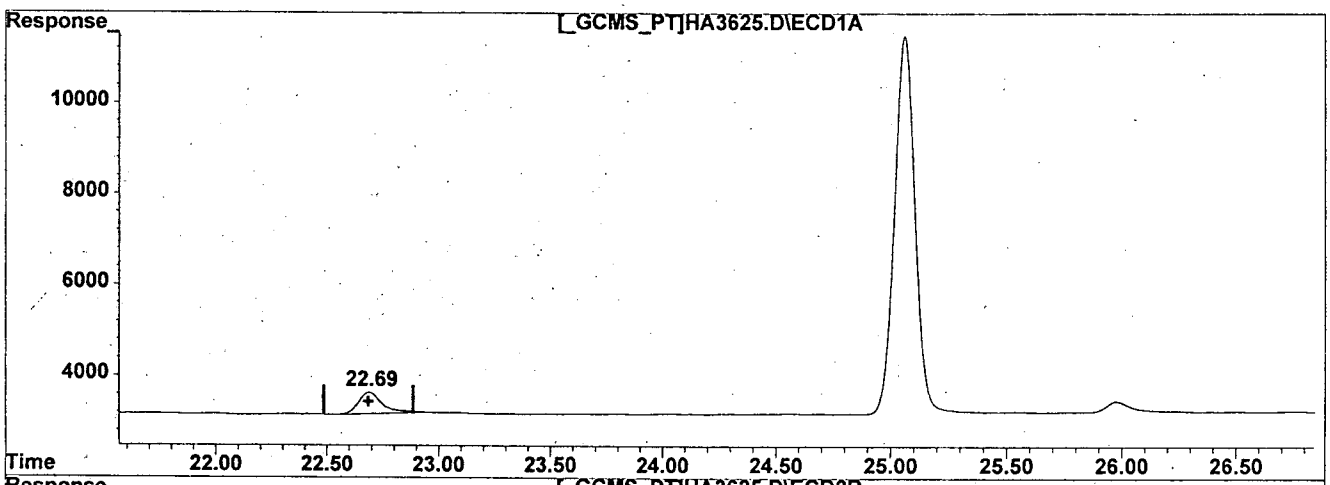
response 96596

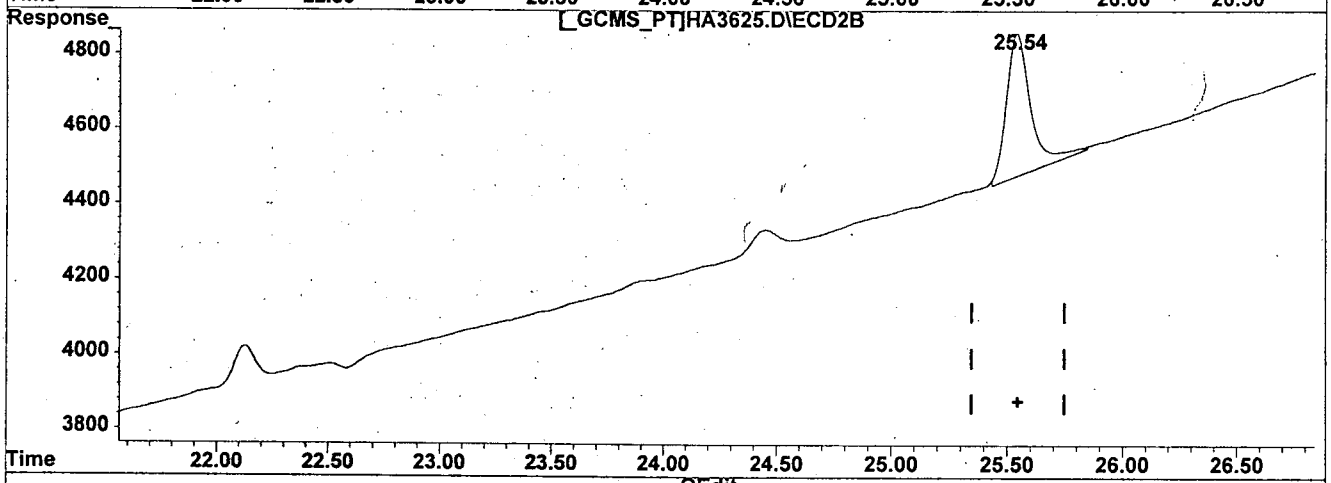
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3625.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3625.D\ECD2B.CH
Acq On : 3 Apr 98 19:10 Operator:
Sample : PEM06 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 5 13:13 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(12) 4,4'-DDE (B)

22.69min 3.284ng/ml m

response 36001

(12) 4,4'-DDE #2 (B)

25.54min 2.657ng/ml m

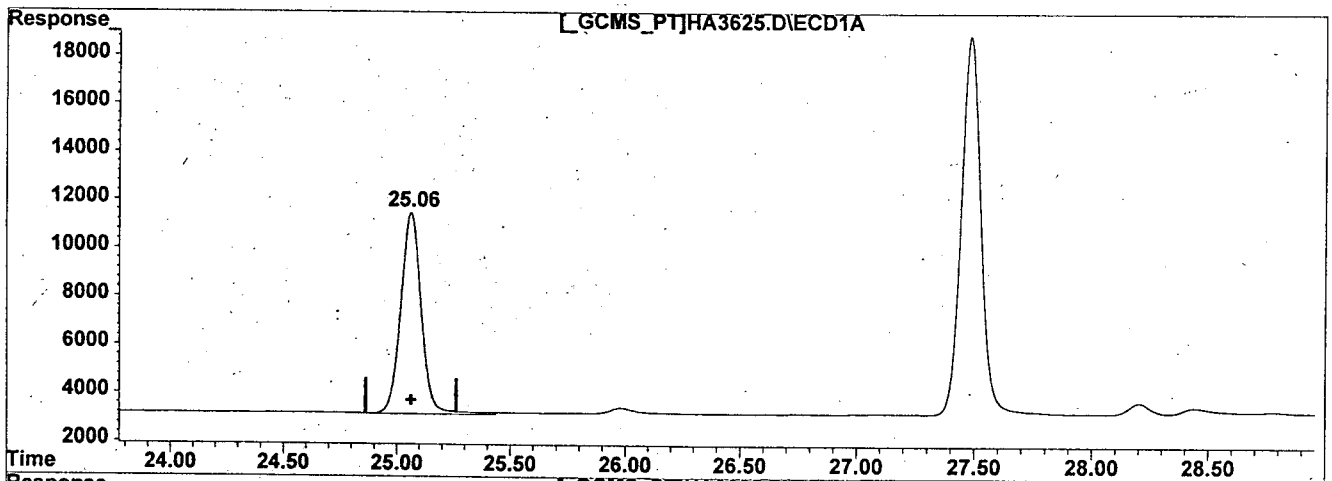
response 27507

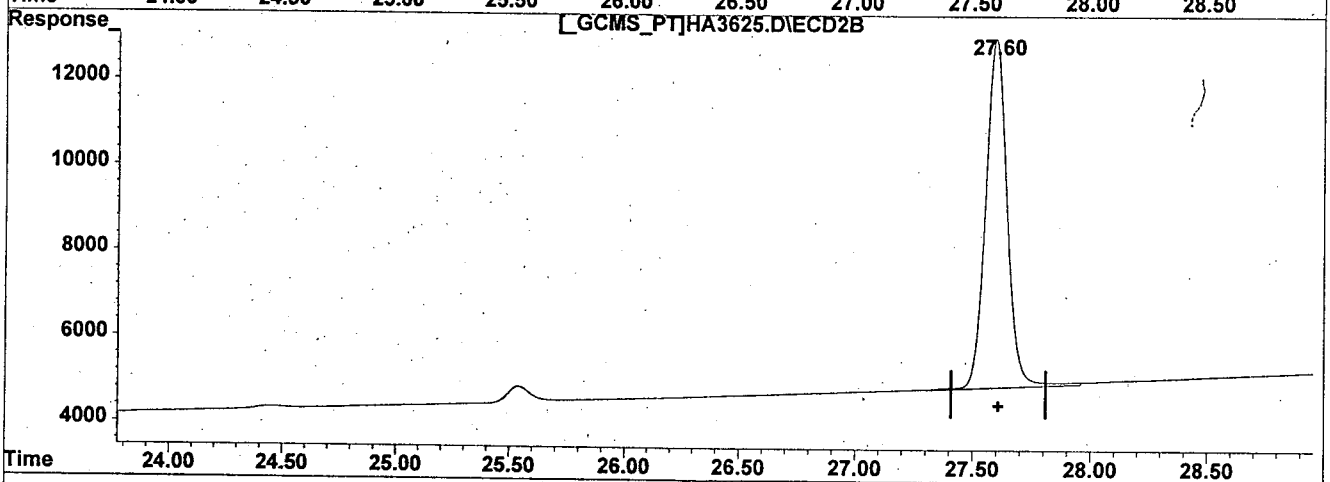
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3625.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3625.D\ECD2B.CH
Acq On : 3 Apr 98 19:10 Operator:
Sample : PEM06 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 5 13:13 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(14) Endrin (MA)

25.06min 39.695ng/ml m

response 533731

(14) Endrin #2 (MA)

27.60min 39.280ng/ml m

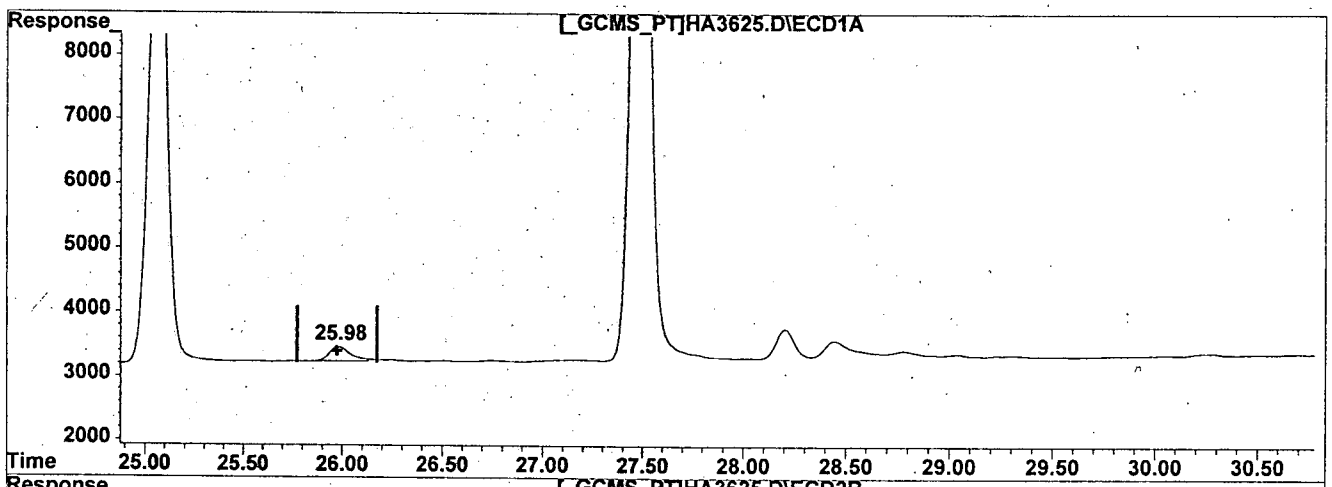
response 519219

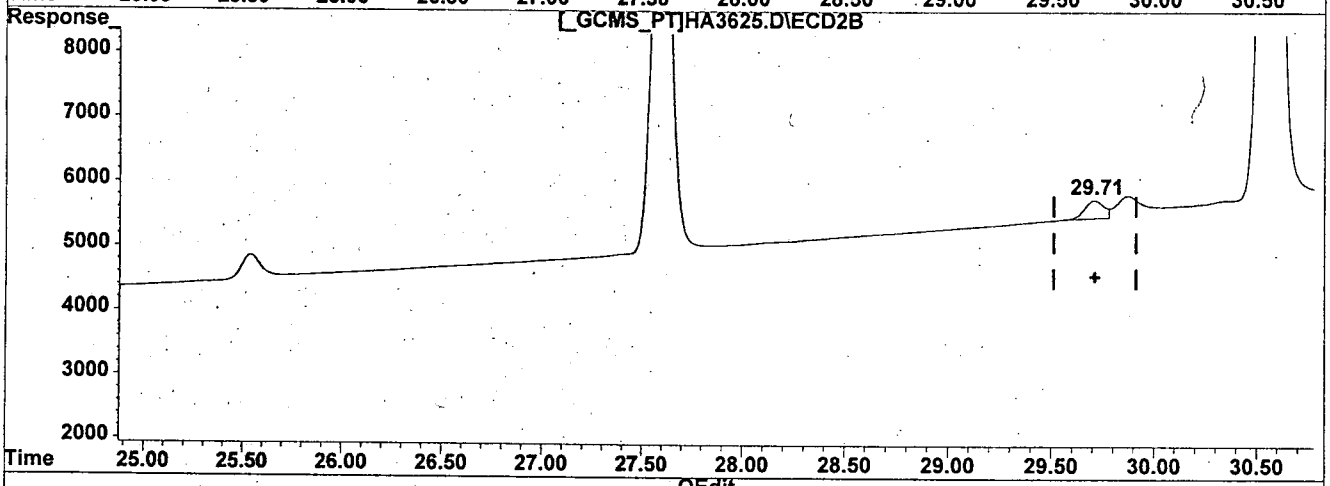
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3625.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3625.D\ECD2B.CH
Acq On : 3 Apr 98 19:10 Operator:
Sample : PEM06 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 5 13:13 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(16) 4,4'-DDD (A)

25.98min 1.883ng/ml m

response 15958

(16) 4,4'-DDD #2 (A)

29.71min 2.078ng/ml m

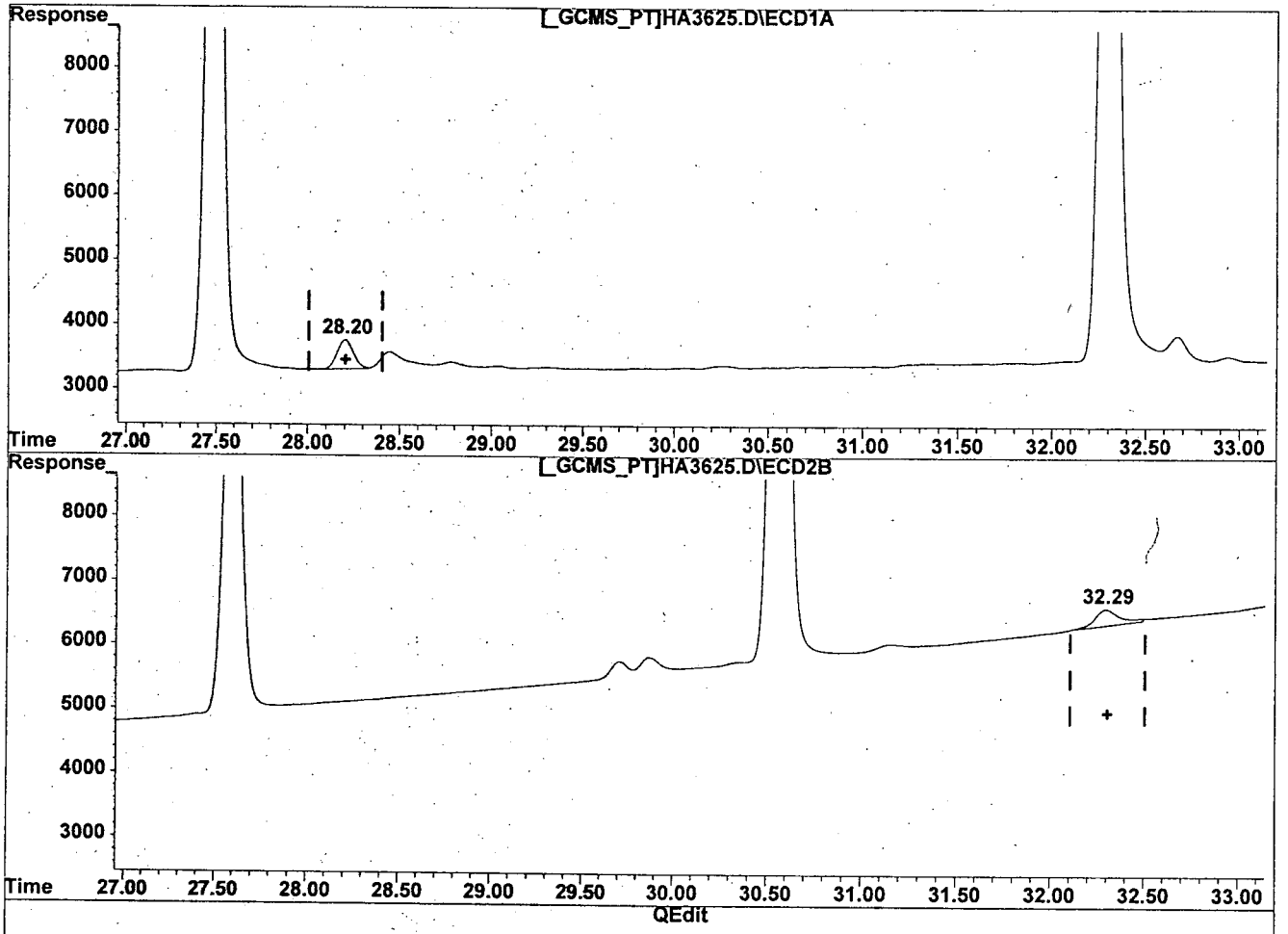
response 18434

(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3625.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3625.D\ECD2B.CH
Acq On : 3 Apr 98 19:10 Operator:
Sample : PEM06 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 5 13:13 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration



(18) Endrin aldehyde (B)

28.20min 2.591ng/ml

response 27808

(18) Endrin aldehyde #2 (B)

32.29min 2.154ng/ml m

response 23208

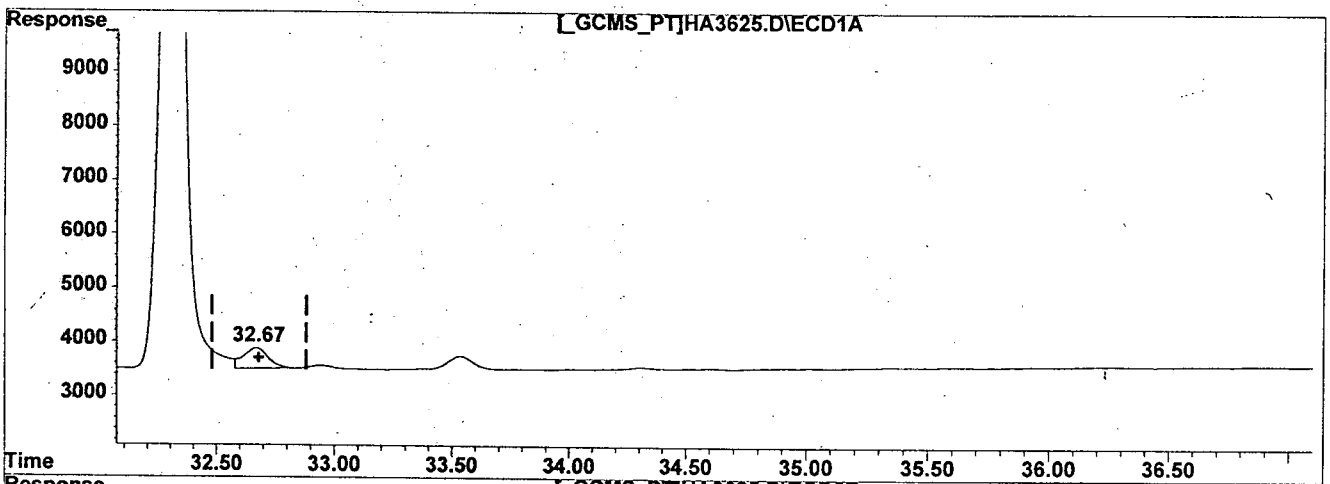
(+) = Expected Retention Time

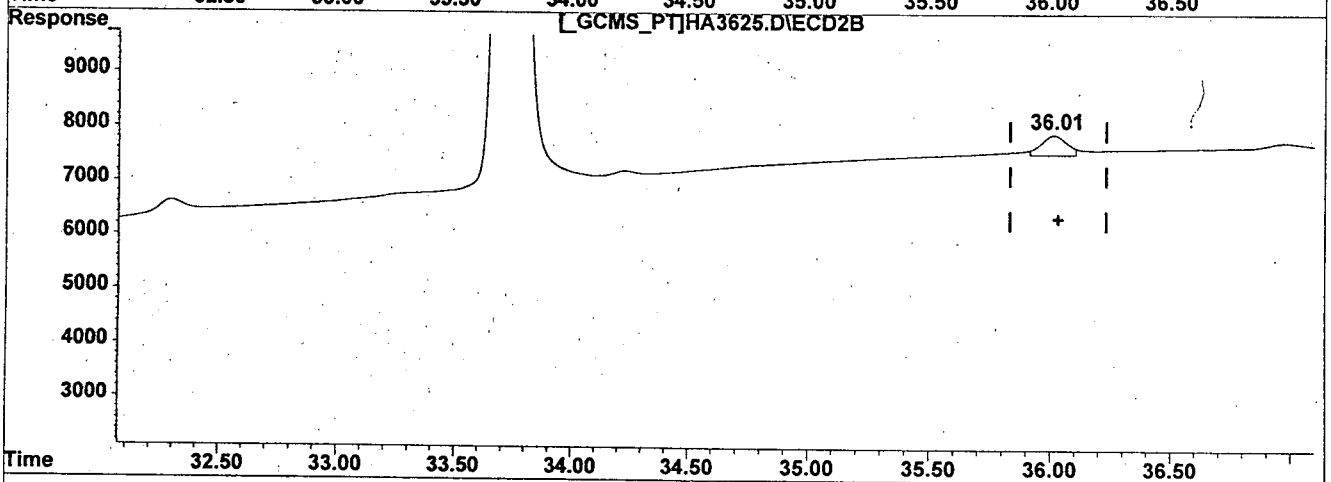
HA3625.D CLP_8.M Fri Apr 10 17:19:37 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3625.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3625.D\ECD2B.CH
Acq On : 3 Apr 98 19:10 Operator:
Sample : PEM06 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 5 13:13 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(21) Endrin ketone (B)

32.67min 2.592ng/ml

response 28223

(21) Endrin ketone #2 (B)

36.01min 2.428ng/ml m

response 26705

(+) = Expected Retention Time

HA3625.D CLP_8.M Fri Apr 10 17:19:58 1998 RPT1

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD2B.CH
Acq On : 4 Apr 98 21:38 Operator:
Sample : PEM07 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 5 13:26 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.42	10.22	279970	260335	17.154m	20.712 ns INS 0.02
Spiked Amount 40.000 Range 60 - 150 Recovery =					42.89%#	51.78%#
2) SA Decachlorobiphen	39.49	41.54	395194	469258	17.792	17.672 0.02
Spiked Amount 40.000 Range 60 - 150 Recovery =					44.48%#	44.18%#
Target Compounds						
2) A alpha-BHC	11.08	14.37	131452	91527	10.194	7.965m 0.01
3) MA gamma-BHC (Linda	13.01	16.47	100918	91894	7.589m	7.741m
6) B beta-BHC	14.23	20.58	72704	66580	9.199	10.420
12) B 4,4'-DDE	22.70	25.55	18363	14445	1.675	1.395m
14) MA Endrin	25.07	27.61	505180	498726	37.571m	37.730m 0.05
16) A 4,4'-DDD	25.99	29.72	12674	19401	1.496m	2.187m#
17) MA 4,4'-DDT	27.49	30.57	967208	1023190	102.174	105.780 0.10
18) B Endrin aldehyde	28.21	32.30	27801	24936	2.590	2.315m
20) A Methoxychlor	32.31	33.74	1299012	1794742	225.714m	230.394m 0.25
21) B Endrin ketone	32.68	36.02	28684	20102	2.635	1.827m#
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
Sig 1 Sig 2
DDT 3.171 3.58
Endrin 10.45 8.28
Total 13.62 ~~11.78~~ 11.86

DTE 4/5/98

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD2B.CH
Acq On : 4 Apr 98 21:38 Operator:
Sample : PEM07 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 5 13:26 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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

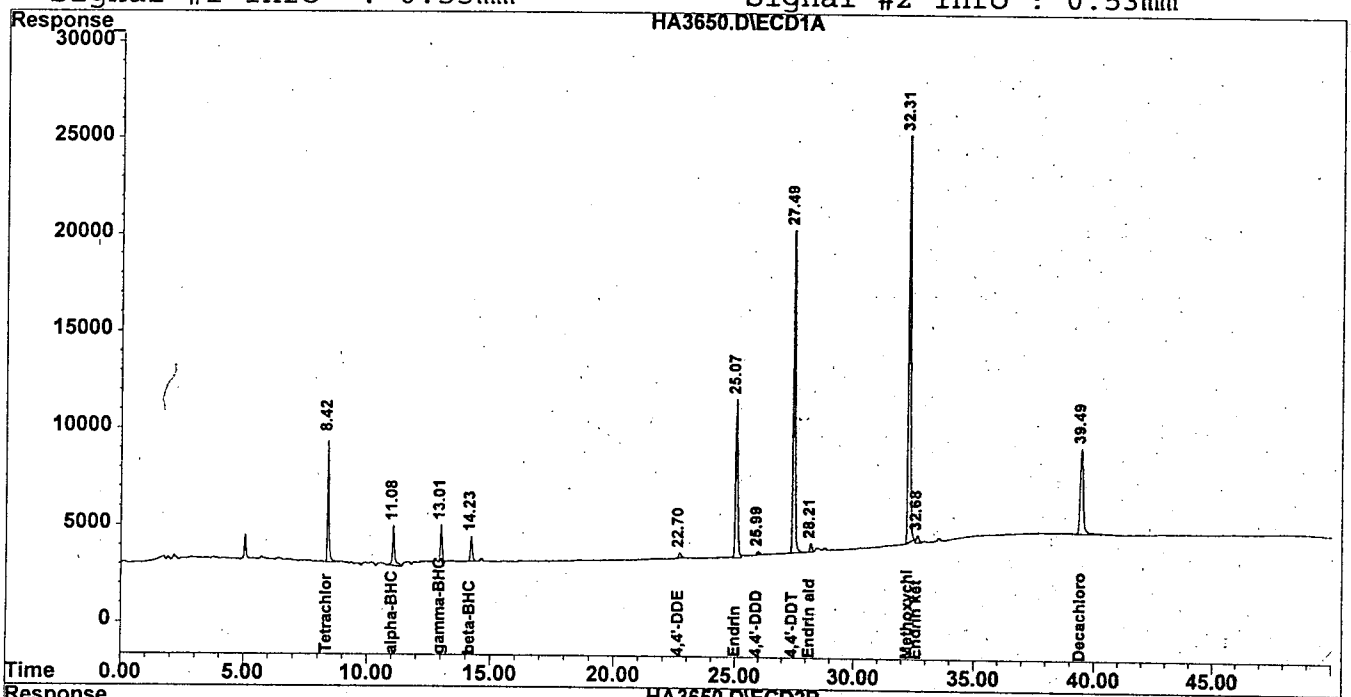
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

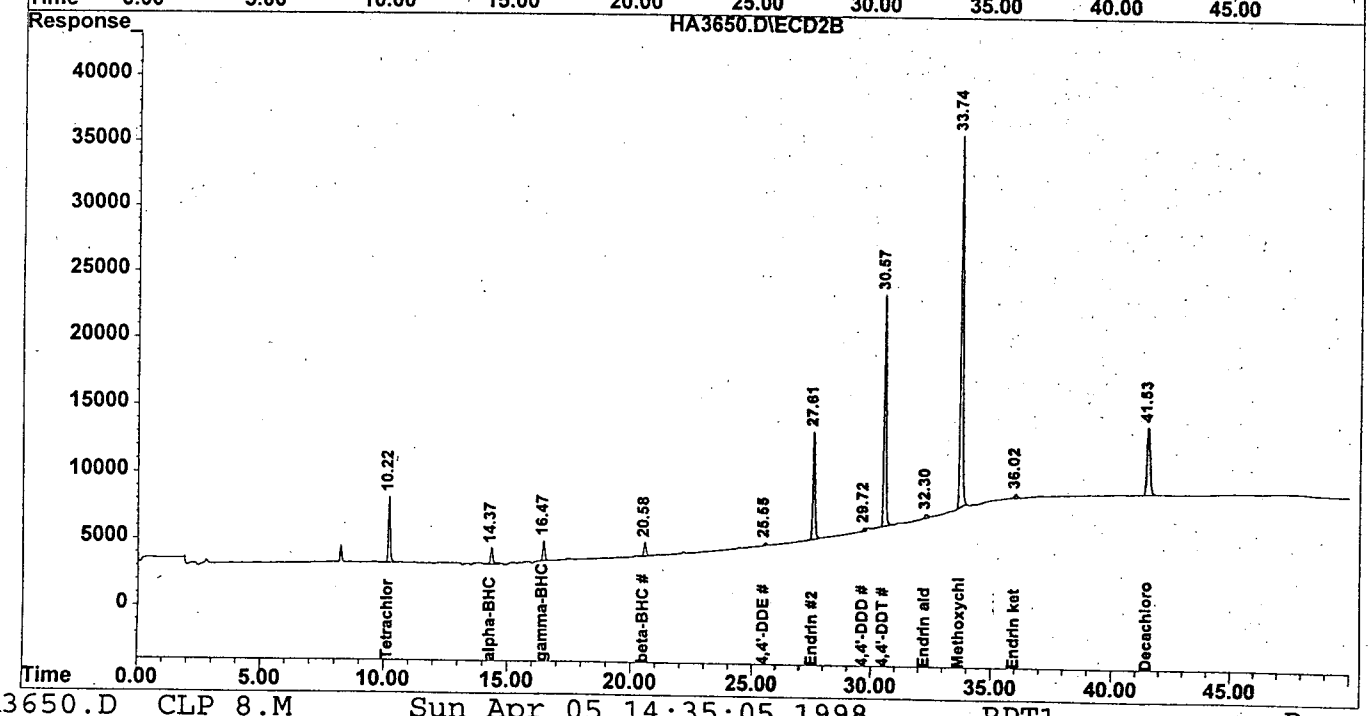
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD2B.CH
Acq On : 4 Apr 98 21:38 Operator:
Sample : PEM07 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 5 13:26 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

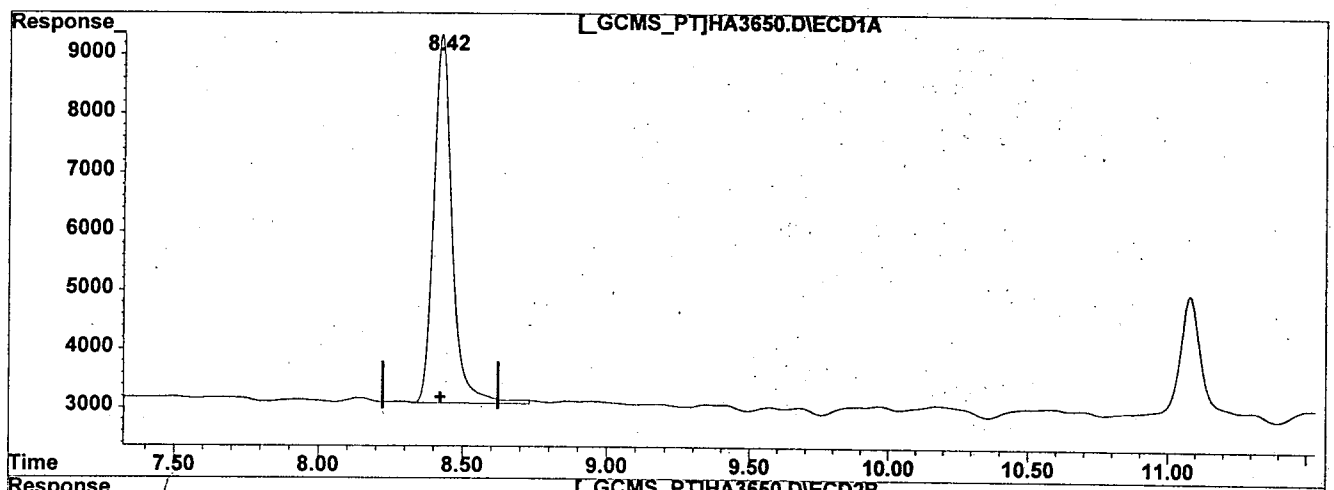


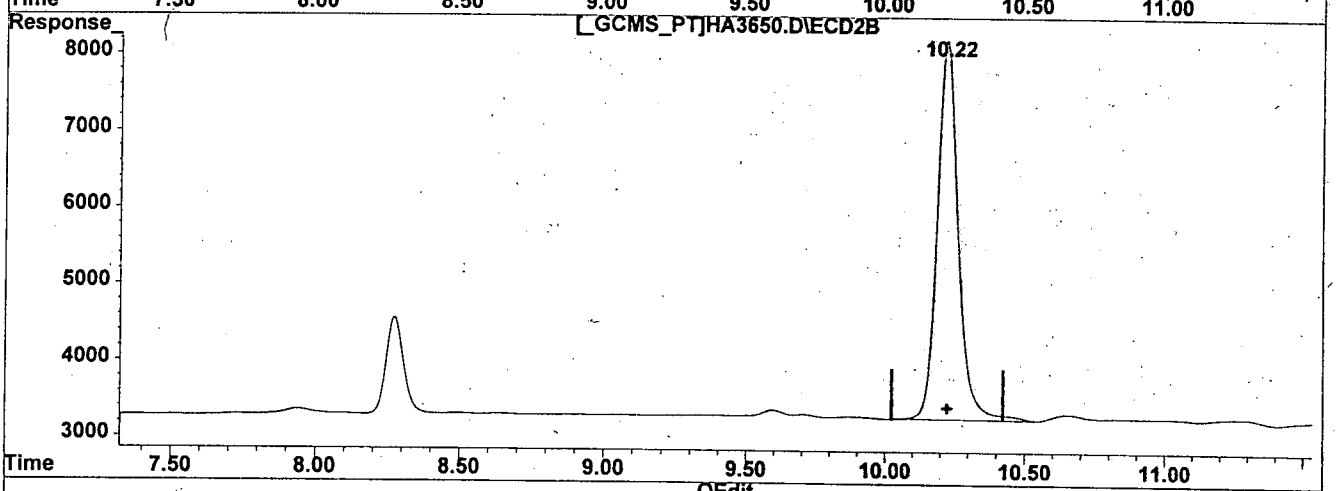


Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD2B.CH
Acq On : 4 Apr 98 21:38 Operator:
Sample : PEM07 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 5 13:26 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(1) Tetrachloro-m-xylene (SA)

8.42min 17.154ng/ml m

response 279970

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

10.22min 20.712ng/ml

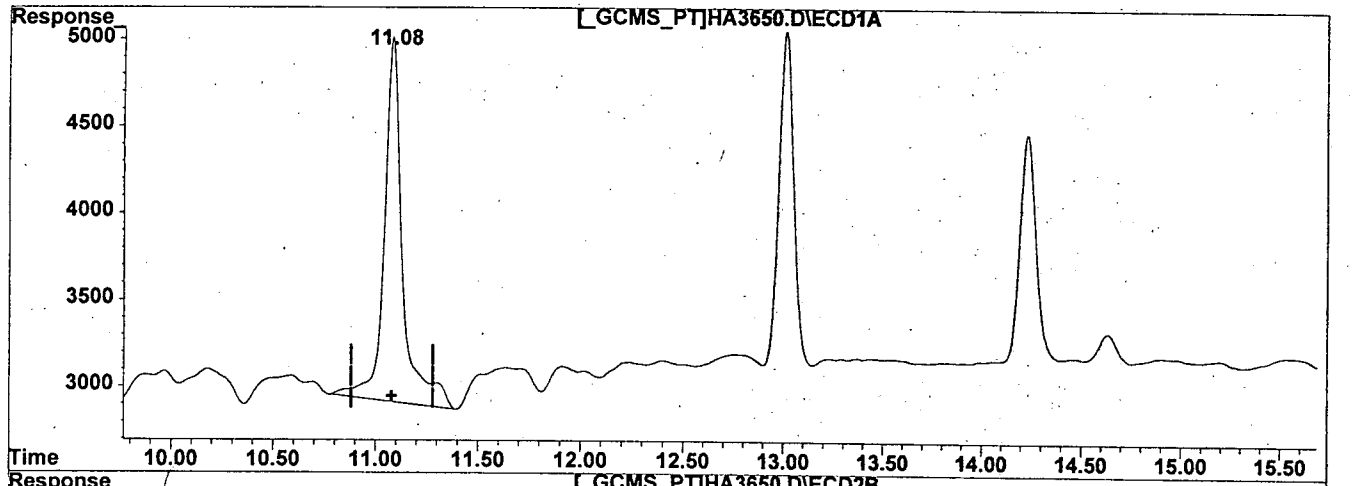
response 260335

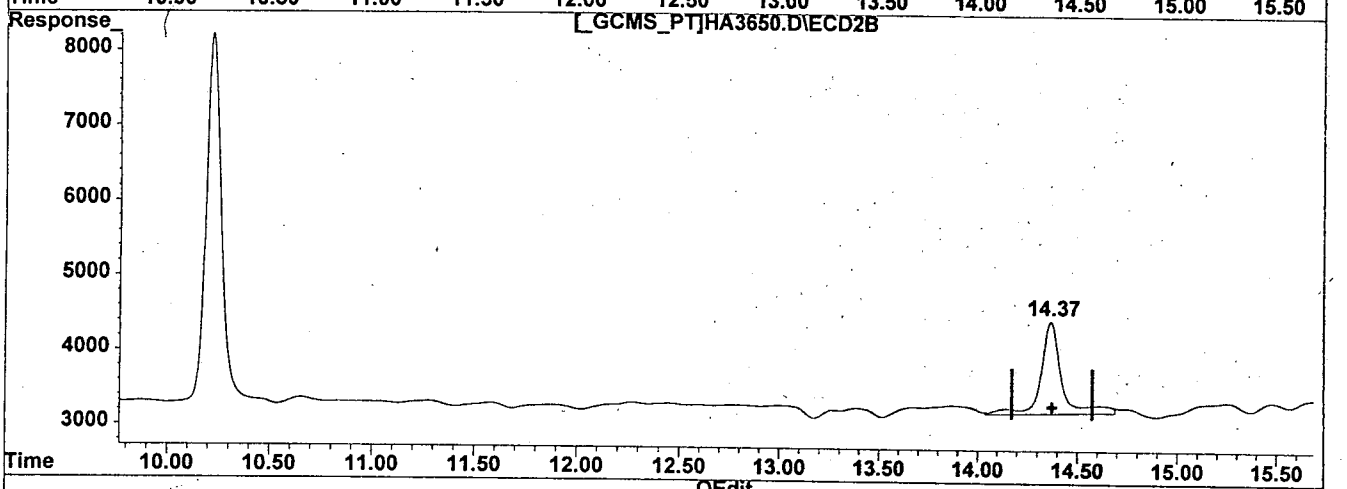
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD2B.CH
Acq On : 4 Apr 98 21:38 Operator:
Sample : PEM07 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 5 13:26 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(2) alpha-BHC (A)

11.08min 10.194ng/ml

response 131452

(2) alpha-BHC #2 (A)

14.37min 7.965ng/ml m

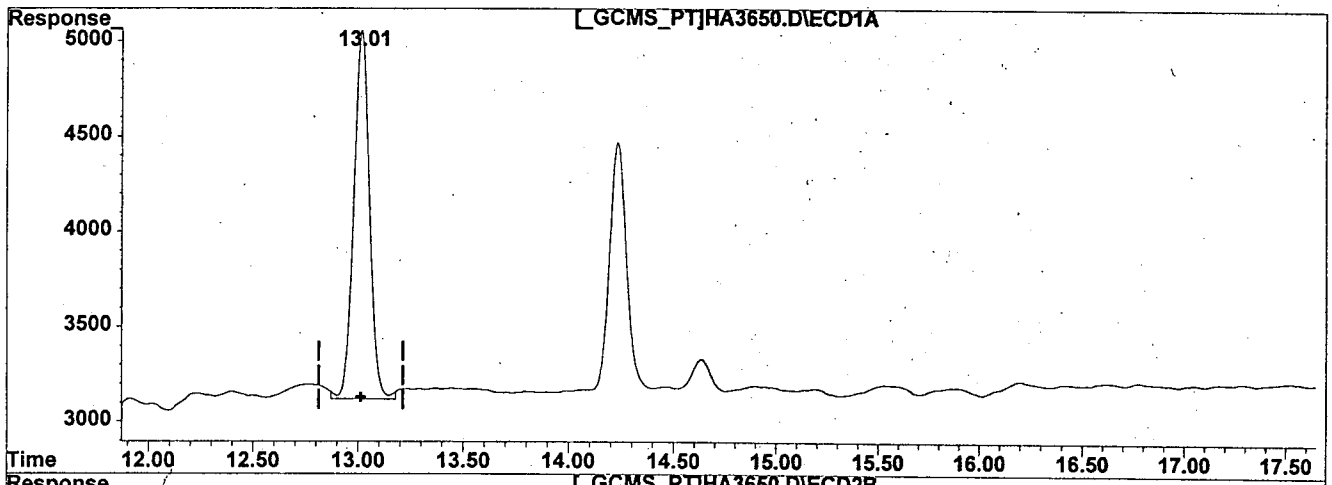
response 91527

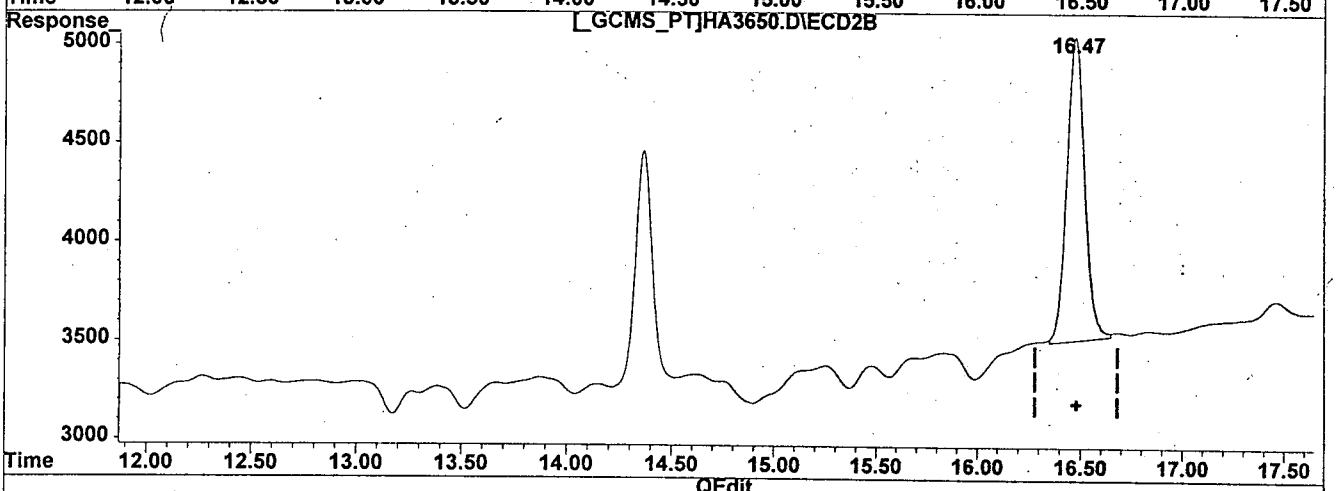
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD2B.CH
Acq On : 4 Apr 98 21:38 Operator:
Sample : PEM07 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 5 13:26 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(3) gamma-BHC (Lindane) (MA)

13.01min 7.589ng/ml m

response 100918

(3) gamma-BHC (Lindane) #2 (MA)

16.47min 7.741ng/ml m

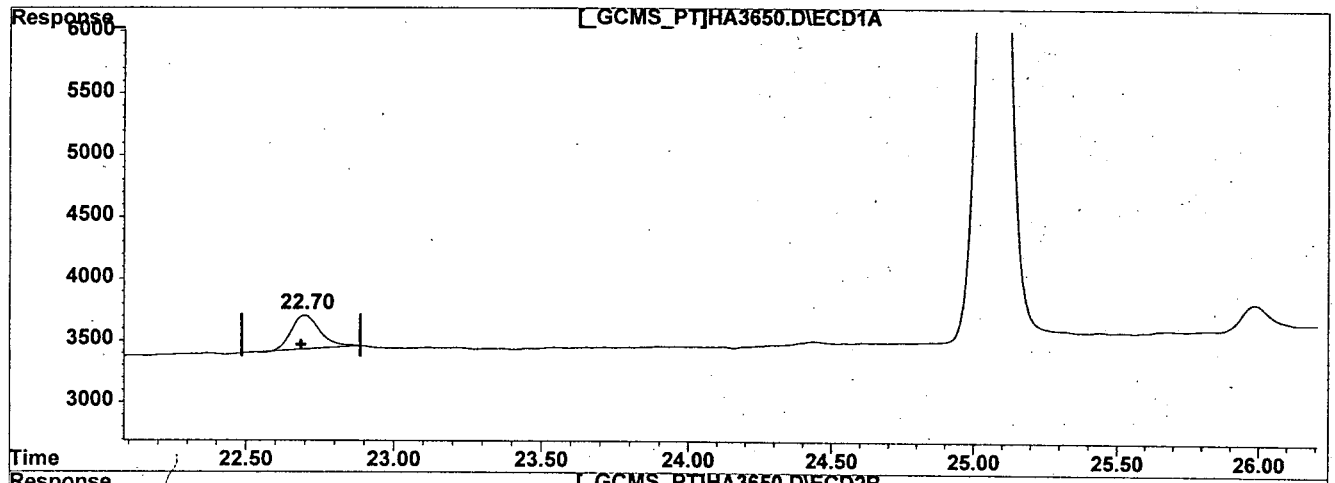
response 91894

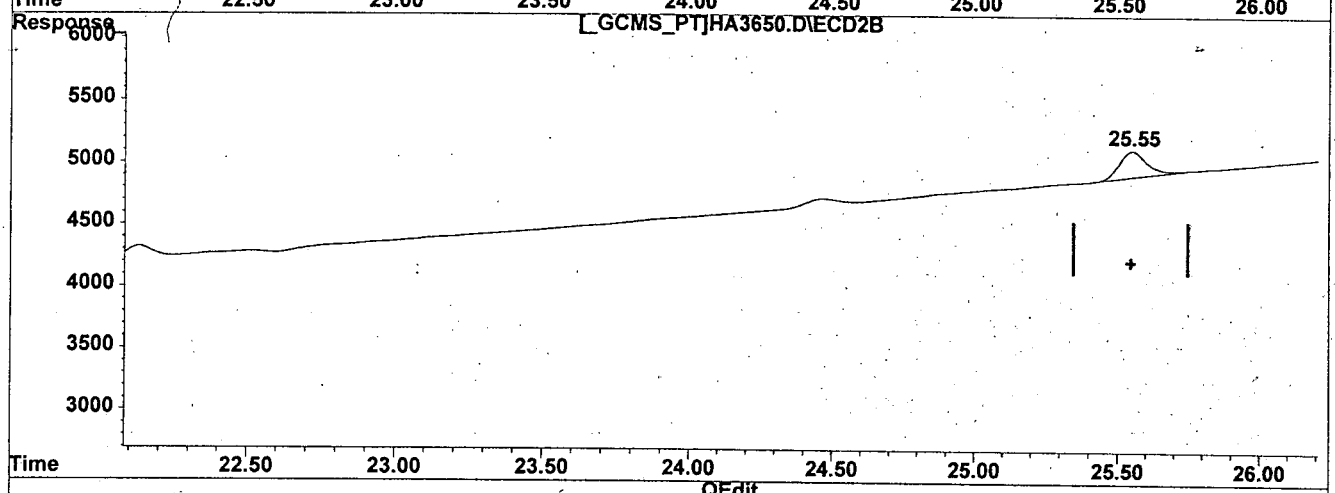
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD2B.CH
Acq On : 4 Apr 98 21:38 Operator:
Sample : PEM07 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 5 13:26 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(12) 4,4'-DDE (B)

22.70min 1.675ng/ml

response 18363

(12) 4,4'-DDE #2 (B)

25.55min 1.395ng/ml m

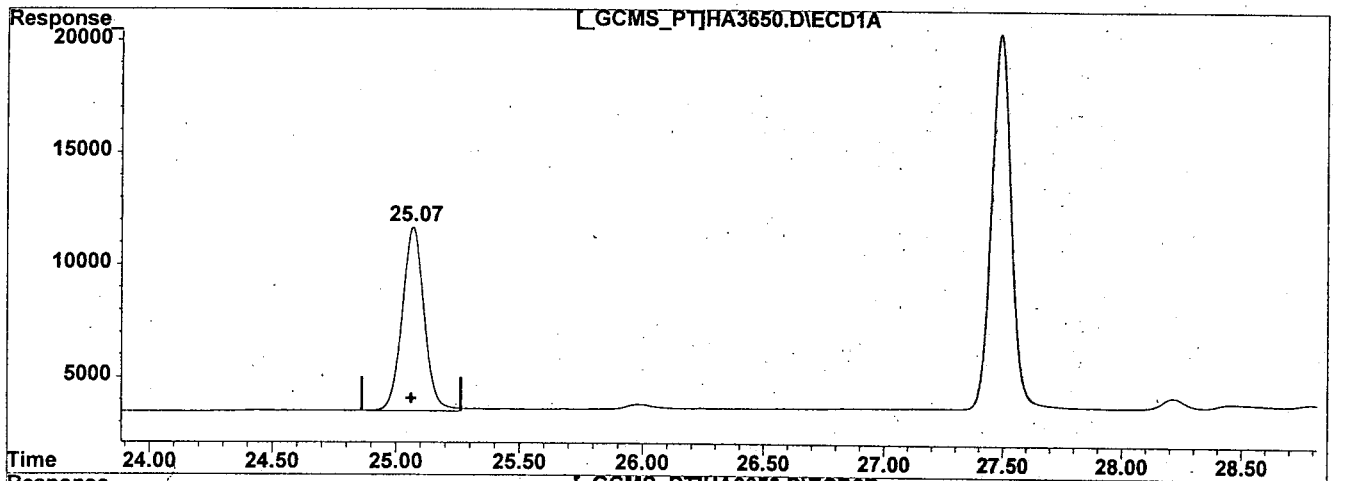
response 14445

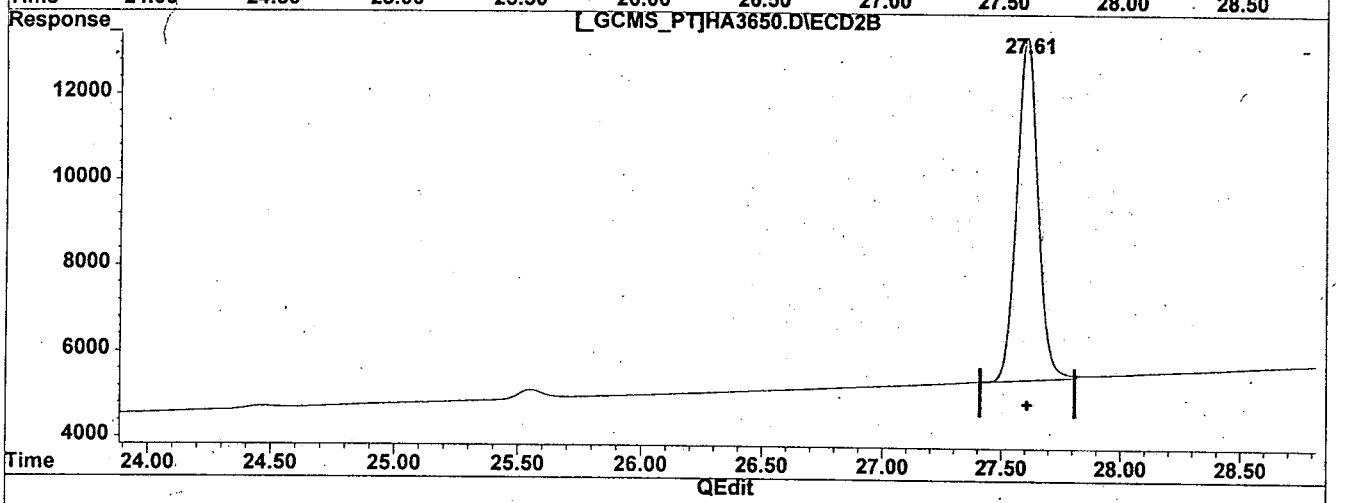
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD2B.CH
Acq On : 4 Apr 98 21:38 Operator:
Sample : PEM07 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 5 13:26 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(14) Endrin (MA)

25.07min 37.571ng/ml m

response 505180

(14) Endrin #2 (MA)

27.61min 37.730ng/ml m

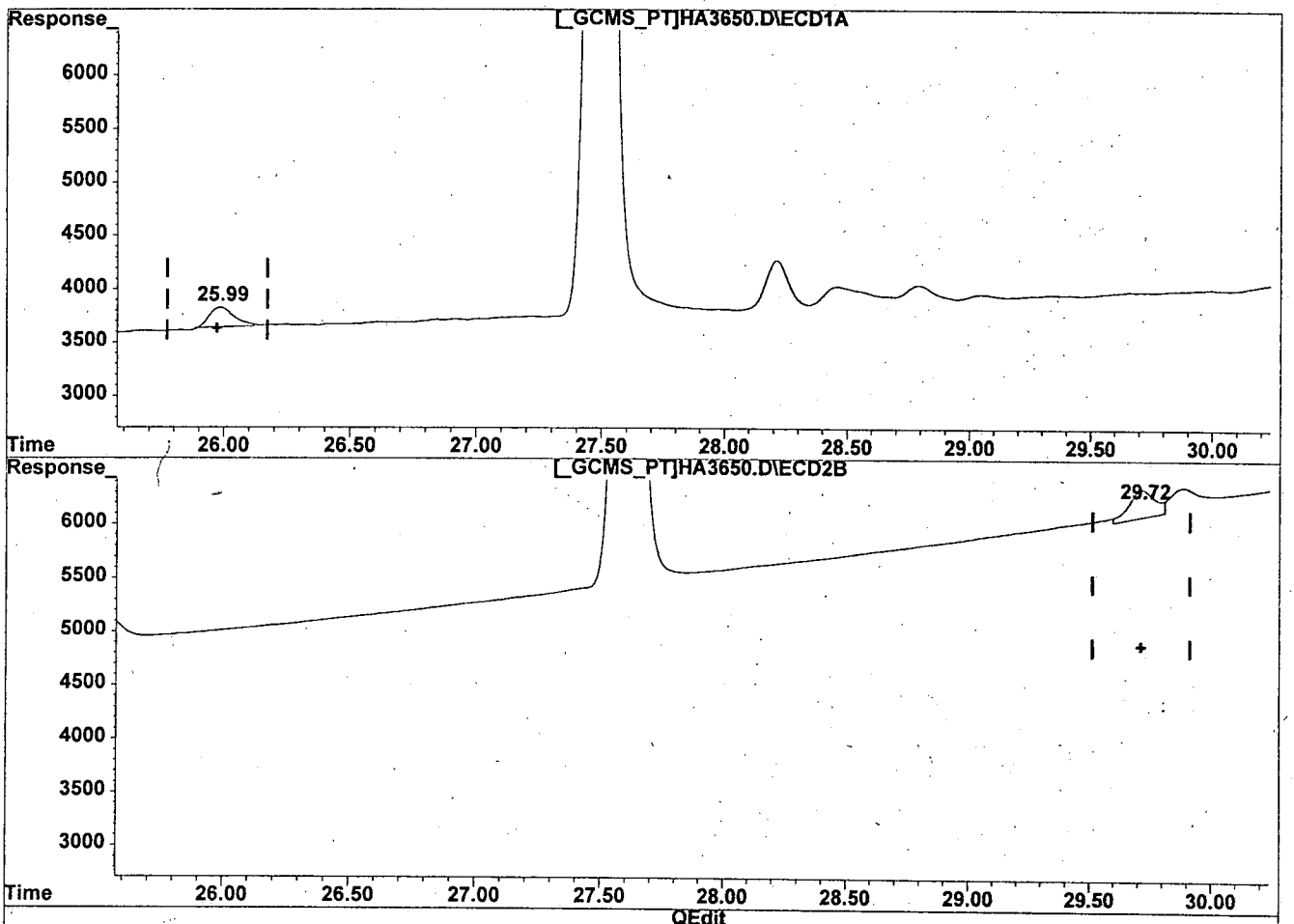
response 498726

(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD2B.CH
Acq On : 4 Apr 98 21:38 Operator:
Sample : PEM07 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 5 13:26 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration



(16) 4,4'-DDD (A)

25.99min 1.496ng/ml m

response 12674

(16) 4,4'-DDD #2 (A)

29.72min 2.187ng/ml m

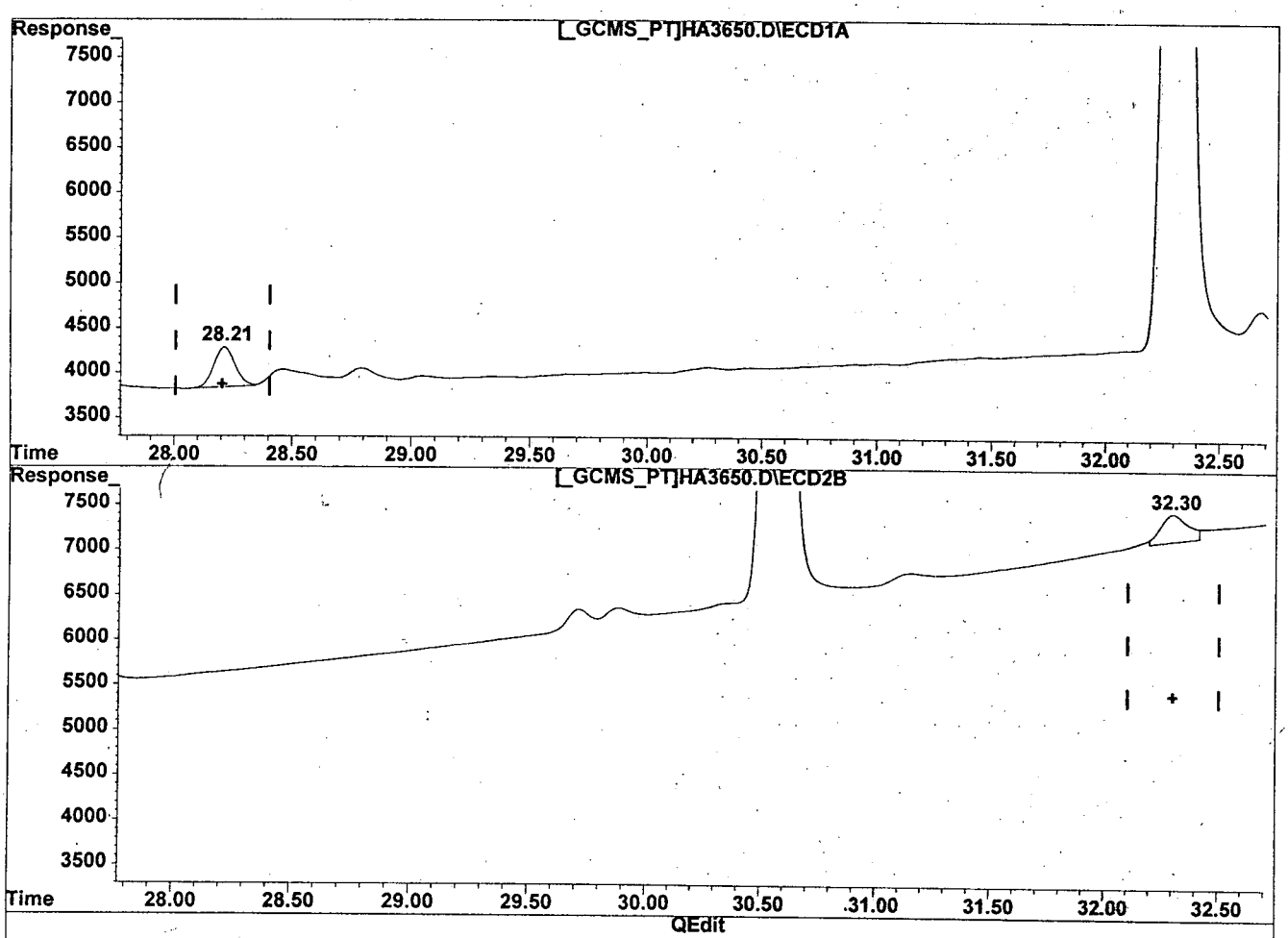
response 19401

(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD2B.CH
Acq On : 4 Apr 98 21:38 Operator:
Sample : PEM07 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 5 13:26 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration



(18) Endrin aldehyde (B)

28.21min 2.590ng/ml

response 27801

(18) Endrin aldehyde #2 (B)

32.30min 2.315ng/ml m

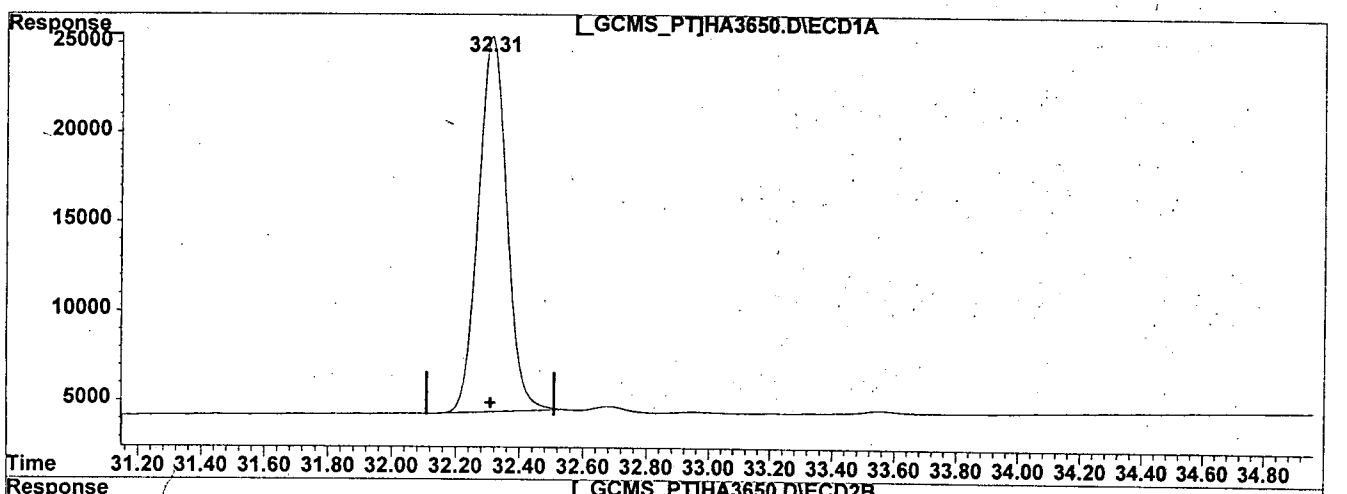
response 24936

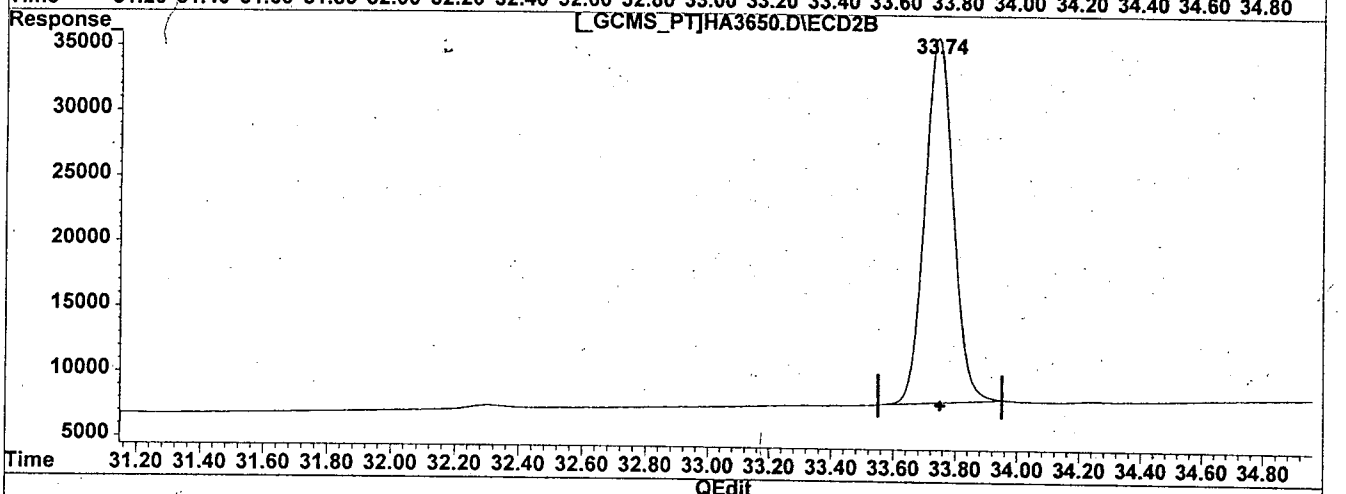
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD2B.CH
Acq On : 4 Apr 98 21:38 Operator:
Sample : PEM07 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 5 13:26 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(20) Methoxychlor (A)

32.31min 225.714ng/ml m

response 1299012

(20) Methoxychlor #2 (A)

33.74min 230.394ng/ml m

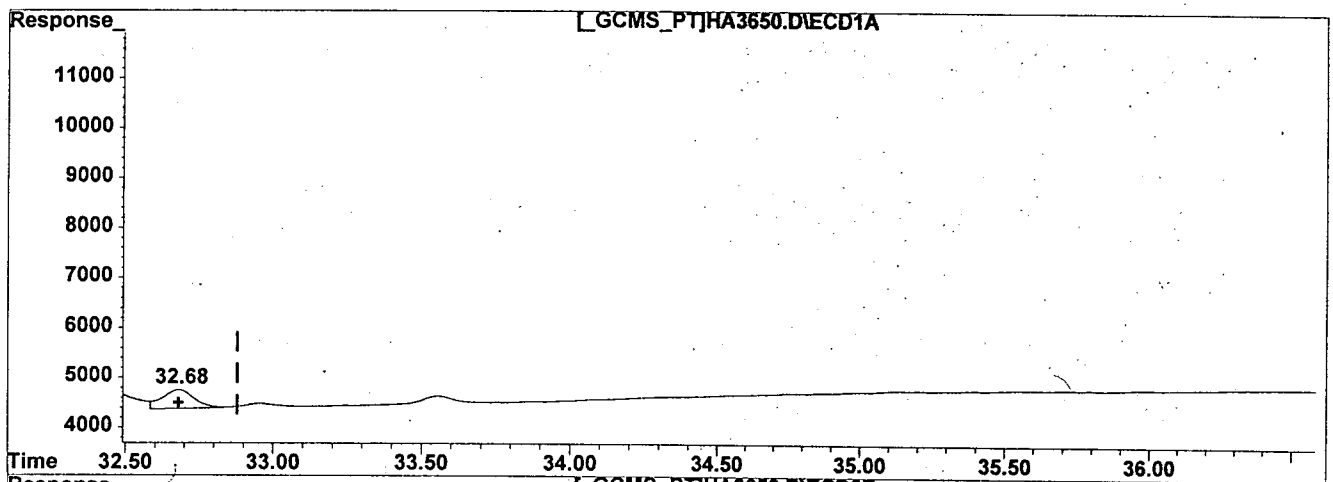
response 1794742

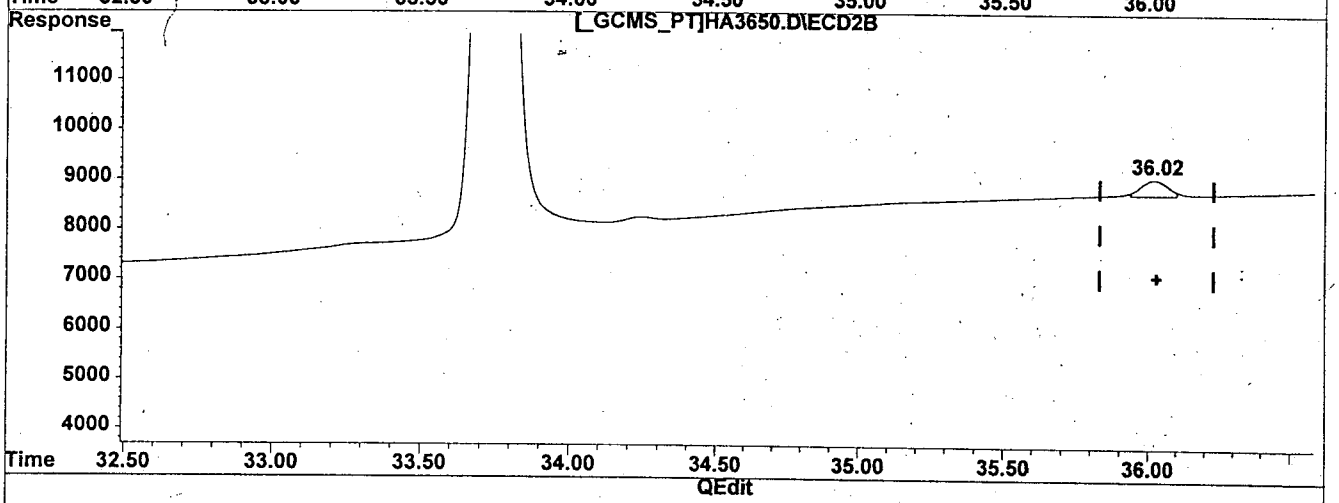
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA_H\HA3650.D\ECD2B.CH
Acq On : 4 Apr 98 21:38 Operator:
Sample : PEM07 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 5 13:26 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





(21) Endrin ketone (B)

32.68min 2.635ng/ml

response 28684

(21) Endrin ketone #2 (B)

36.02min 1.827ng/ml m

response 20102

(+) = Expected Retention Time

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3652.D\ECD1A.CH
Signal #2 : C:\HPCHEM\1\DATA_H\HA3652.D\ECD2B.CH
Acq On : 5 Apr 98 17:54 Vial: 2
Sample : PEM08
Misc : Operator:
Inst : GC_5890_8
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E Multiplr: 1.00
Quant Time: Apr 6 8:48 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50
Signal #1 Info : 0.53mm
Signal #2 Phase: RTx-1701
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	8.43	10.22	269965	258573	16.541	20.571 No Int
Spiked Amount 40.000 Range 60 - 150 Recovery =					41.35%#	51.43%#
2) SA Decachlorobiphen	39.48	41.53	388202	468430	17.478	17.641 0.01
Spiked Amount 40.000 Range 60 - 150 Recovery =					43.70%#	44.10%#
Target Compounds						
3) A alpha-BHC	11.08	14.37	106913	87663	8.291m	7.629m 0.01
6) MA gamma-BHC (Linda	13.02	16.47	99981	90681	7.519m	7.638m
11) B beta-BHC	14.23	20.58	74917	63328	9.479	9.911
14) B 4,4'-DDE	22.70	25.54	19032	15972	1.736	1.543m
15) MA Endrin	25.07	27.60	524467	507425	39.006m	38.388m 0.05
16) A 4,4'-DDD	25.99	29.71	12736	11949	1.503m	1.347m
17) MA 4,4'-DDT	27.49	30.57	968580	1023276	102.319	105.789 0.10
18) B Endrin aldehyde	28.21	32.30	30950	18166	2.884	1.686m#
20) A Methoxychlor	32.31	33.74	1291616	1773800	224.429	227.705 0.25
21) B Endrin ketone	32.68	36.02	29574	21235	2.717	1.930m#
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
S/S 7 S/S 2
DDT 3.24 2.89
Endrin 11.20 7.23
Total 14.44 10.12

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3652.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3652.D\ECD2B.CH
Acq On : 5 Apr 98 17:54 Operator:
Sample : PEM08 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 6 8:48 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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

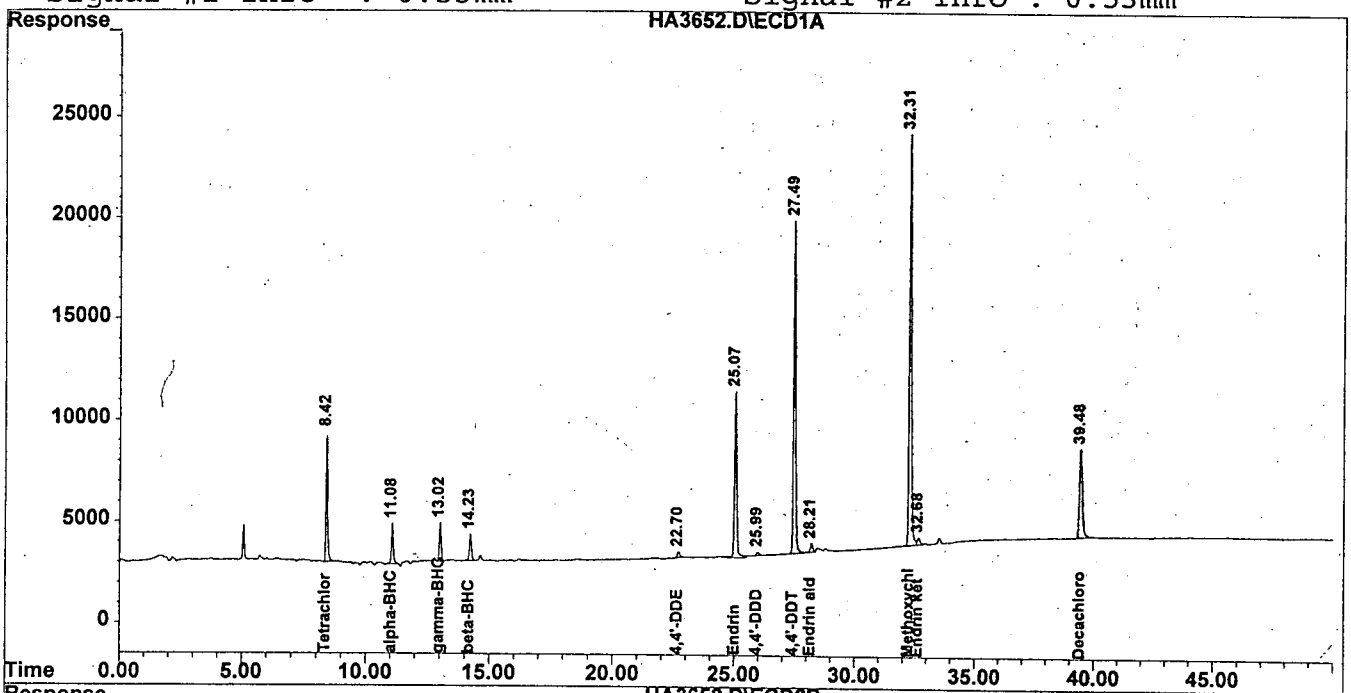
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int

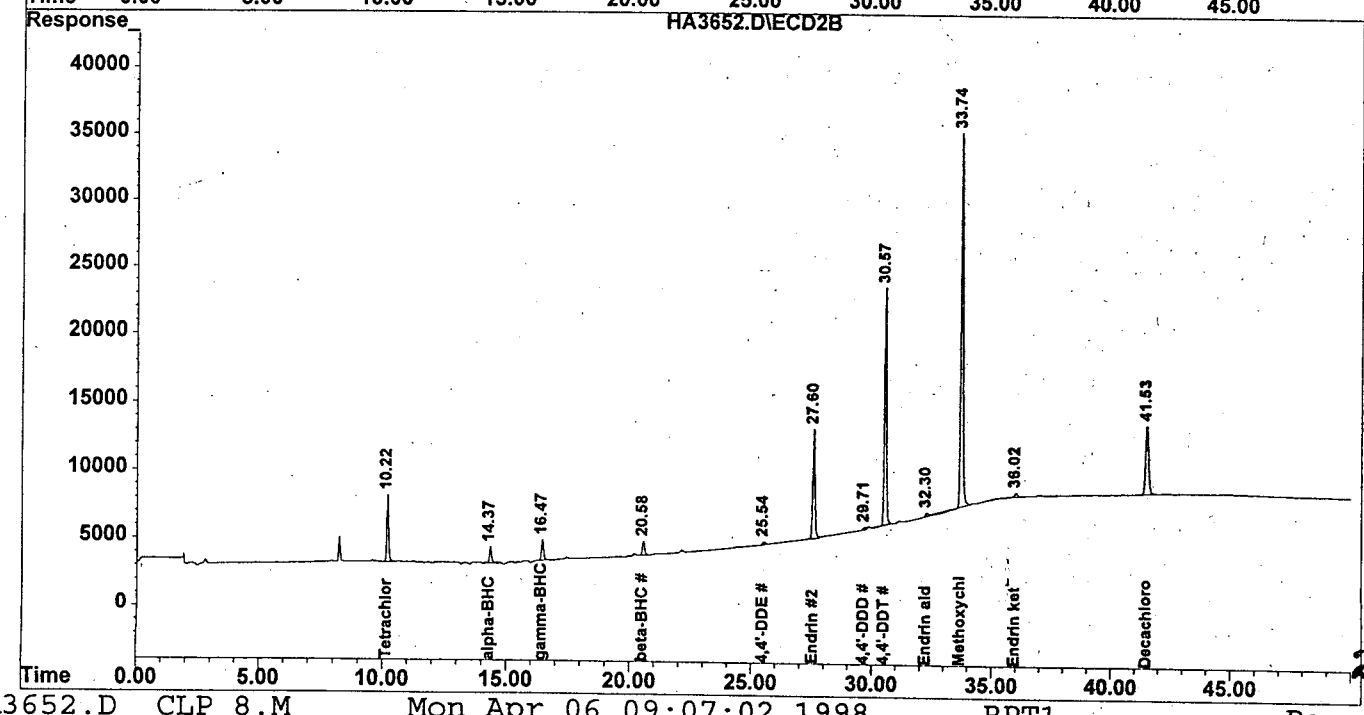
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3652.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3652.D\ECD2B.CH
Acq On : 5 Apr 98 17:54 Operator:
Sample : PEM08 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 6 8:48 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm



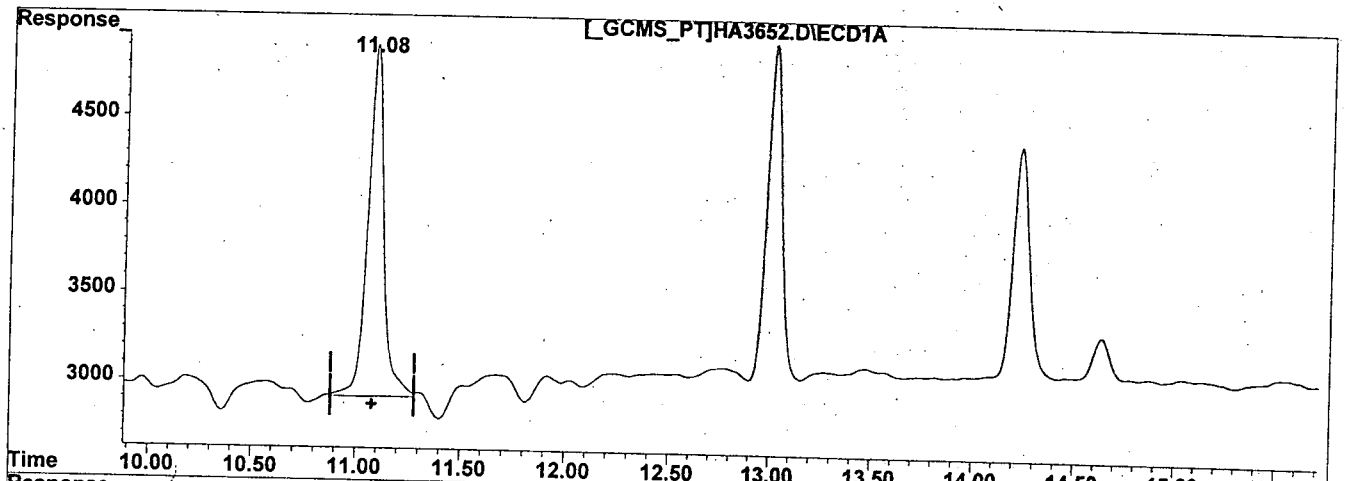


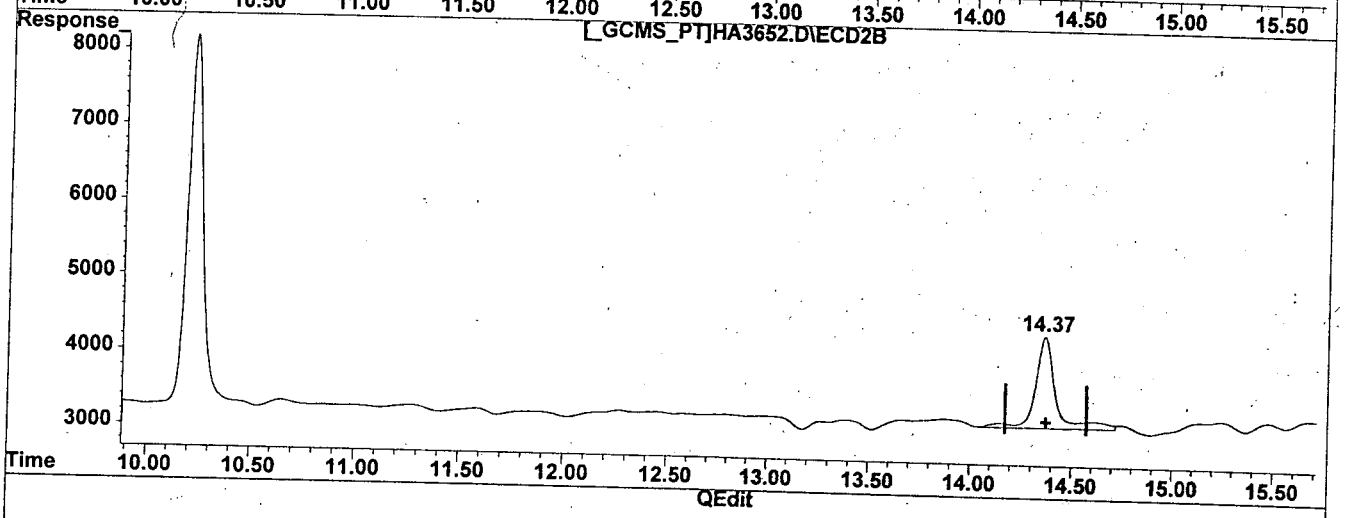
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3652.D\ECD1A.CH
Signal #2 : C:\HPCHEM\1\DATA_H\HA3652.D\ECD2B.CH
Acq On : 5 Apr 98 17:54
Sample : PEM08
Misc :
IntFile Signal #1: EVENTS.E
Quant Time: Apr 6 8:48 1998

Vial: 2
Operator:
Inst : GC_5890_8
Multiplr: 1.00
IntFile Signal #2: EVENTS2.E
Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





(2) alpha-BHC (A)

11.08min 8.291ng/ml m

response 106913

(2) alpha-BHC #2 (A)

14.37min 7.629ng/ml m

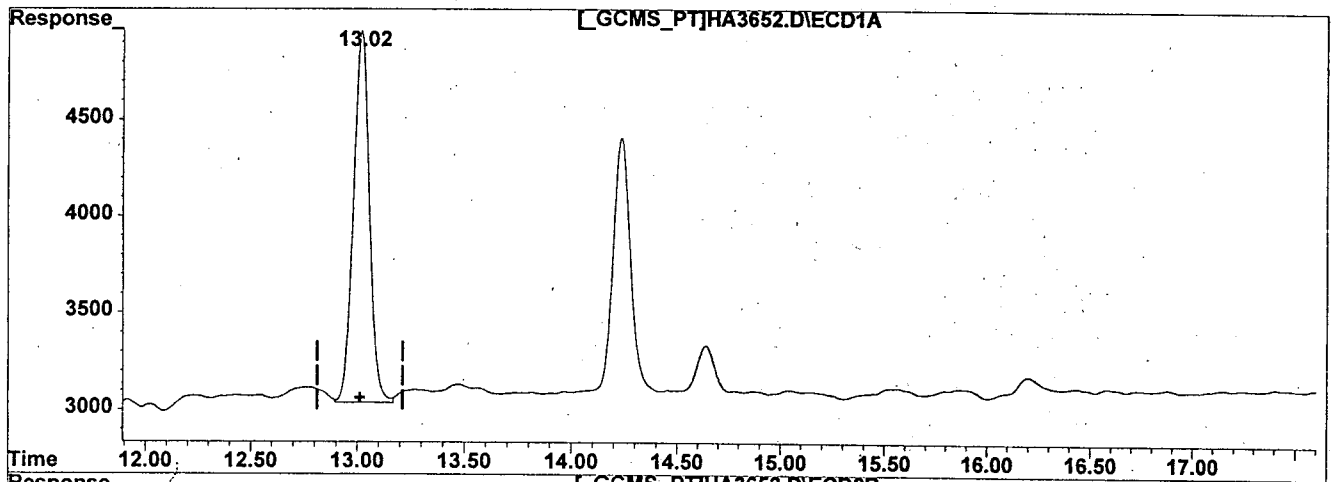
response 87663

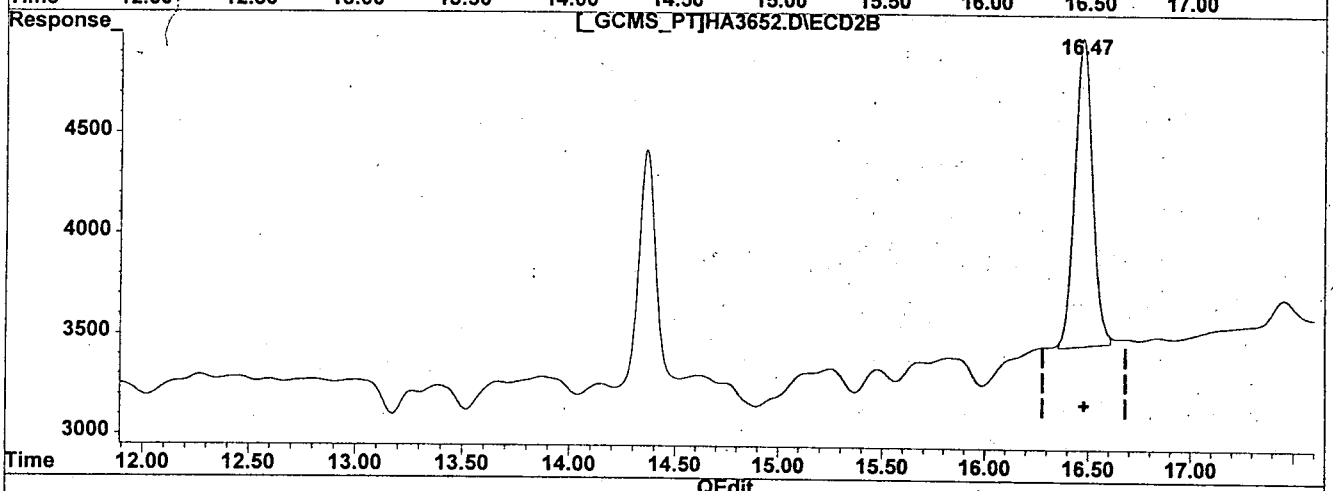
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3652.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3652.D\ECD2B.CH
Acq On : 5 Apr 98 17:54 Operator:
Sample : PEM08 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 6 8:48 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(3) gamma-BHC (Lindane) (MA)

13.02min 7.519ng/ml m

response 99981

(3) gamma-BHC (Lindane) #2 (MA)

16.47min 7.638ng/ml m

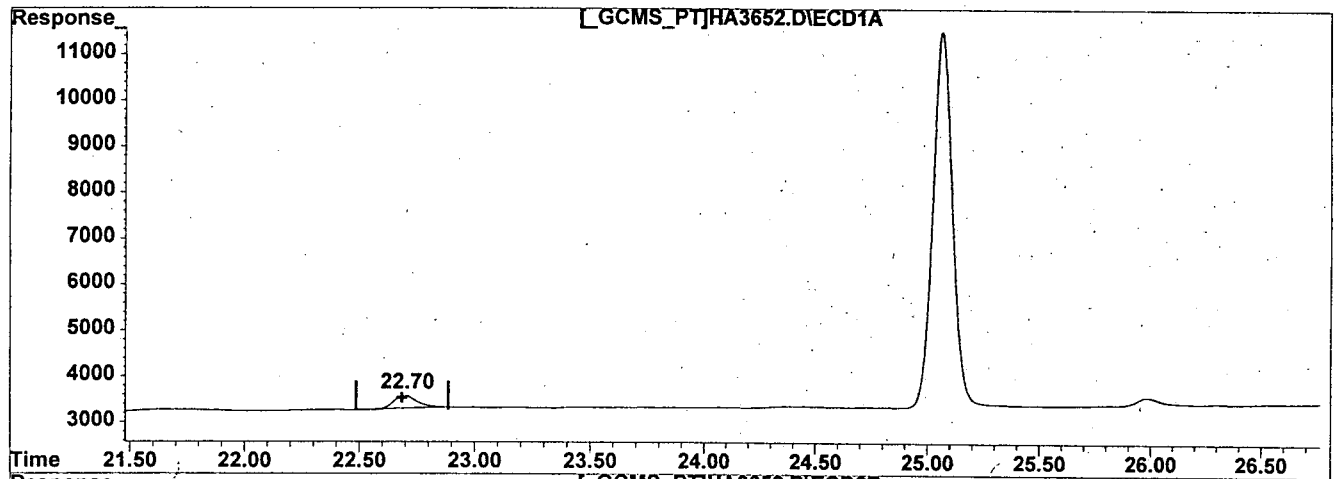
response 90681

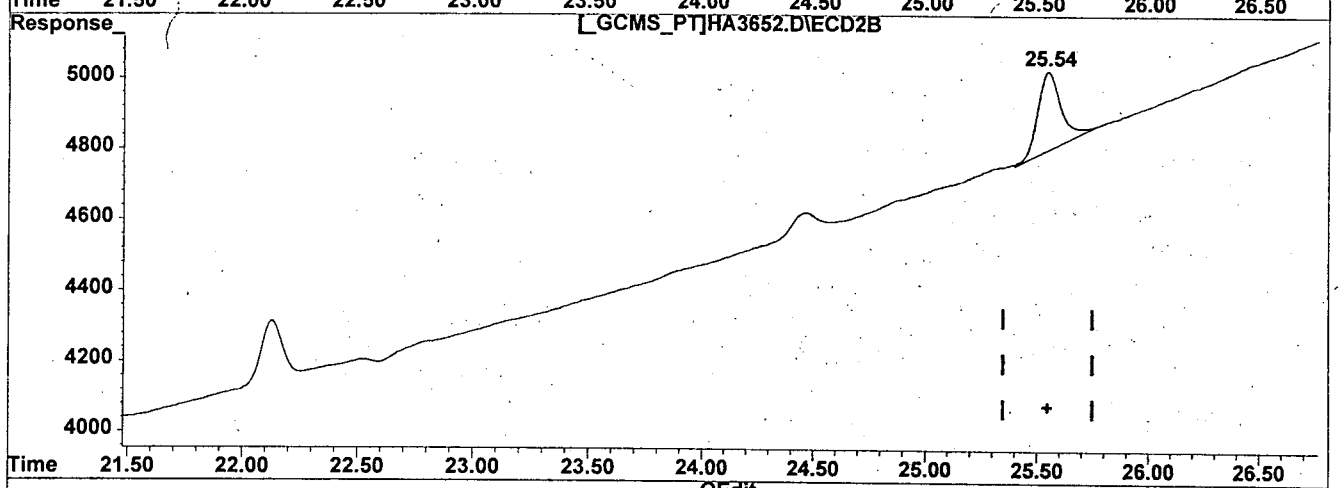
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3652.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3652.D\ECD2B.CH
Acq On : 5 Apr 98 17:54 Operator:
Sample : PEM08 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 6 8:48 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(12) 4,4'-DDE (B)

22.70min 1.736ng/ml

response 19032

(12) 4,4'-DDE #2 (B)

25.54min 1.543ng/ml m

response 15972

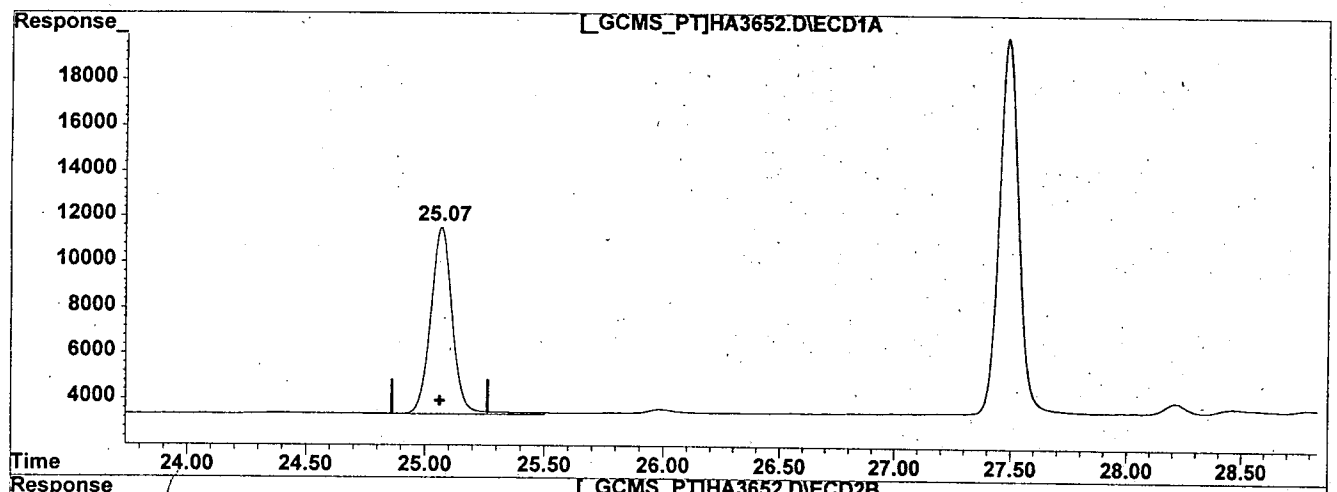
(+) = Expected Retention Time

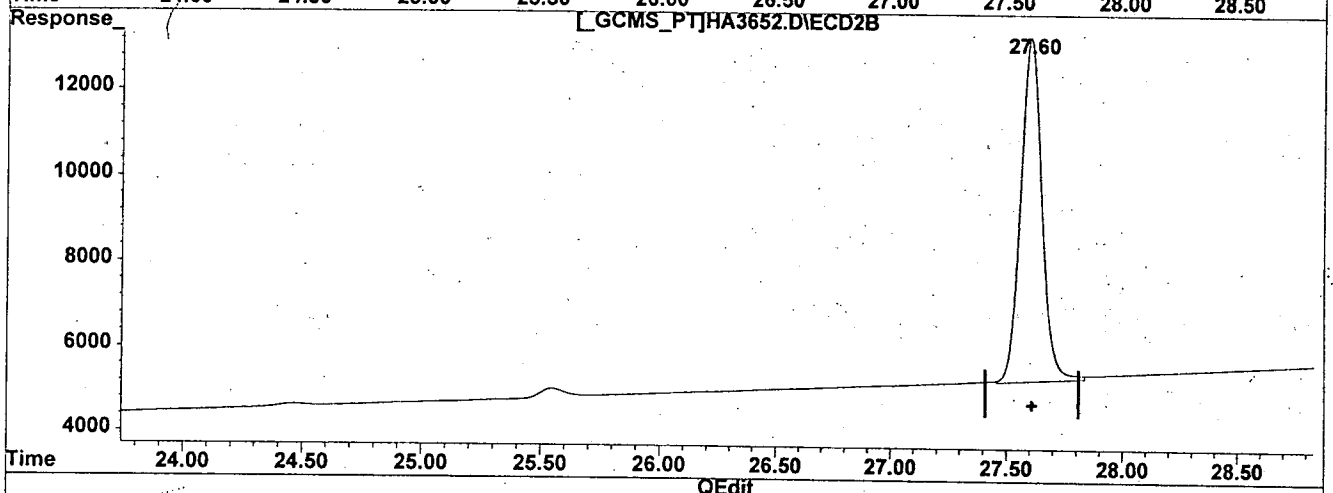
HA3652.D CLP_8.M Fri Apr 10 18:25:16 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3652.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3652.D\ECD2B.CH
Acq On : 5 Apr 98 17:54 Operator:
Sample : PEM08 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 6 8:48 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(14) Endrin (MA)

25.07min 39.006ng/ml m

response 524467

(14) Endrin #2 (MA)

27.60min 38.388ng/ml m

response 507425

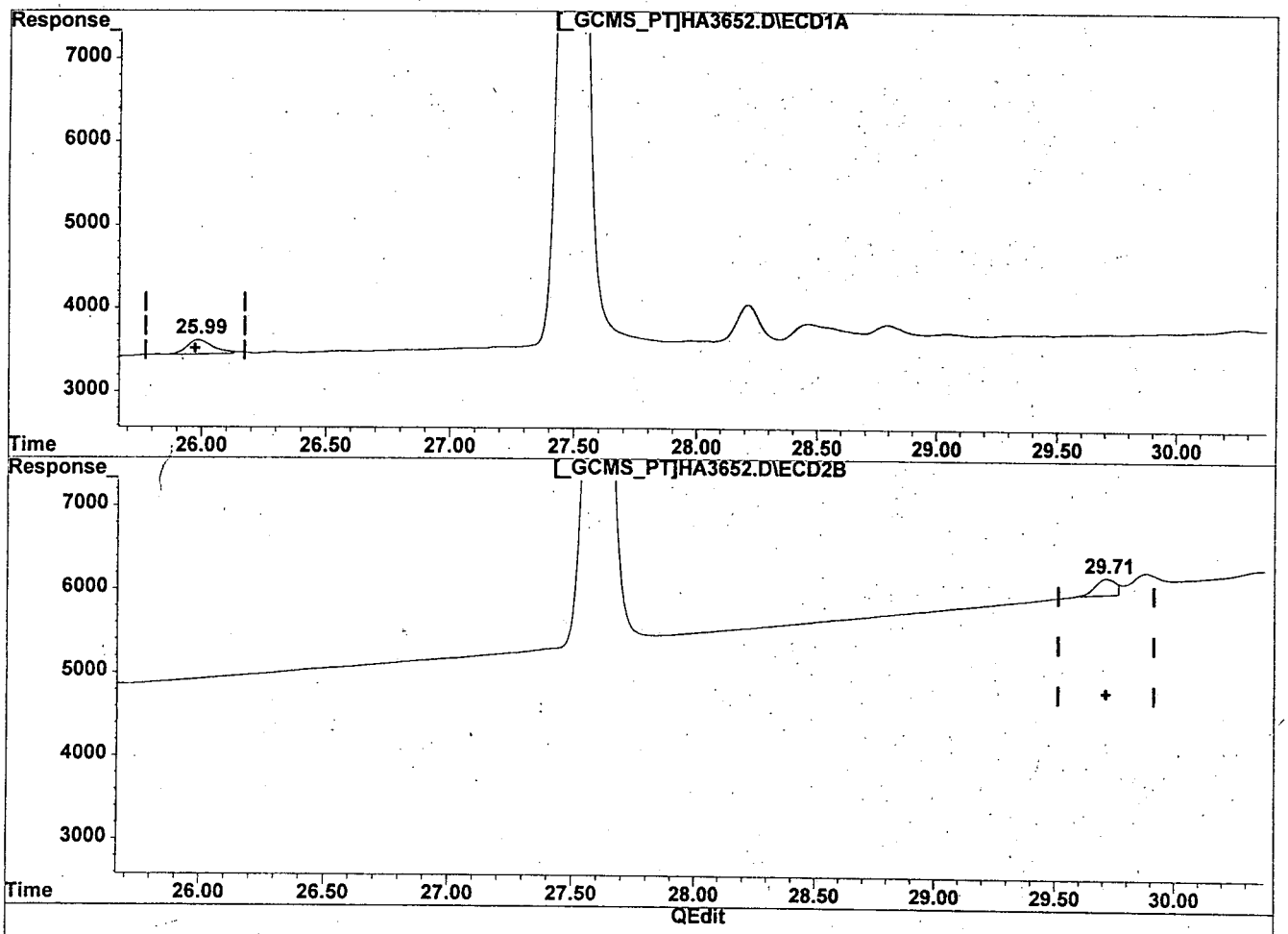
(+) = Expected Retention Time

HA3652.D CLP_8.M Fri Apr 10 18:25:26 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3652.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3652.D\ECD2B.CH
Acq On : 5 Apr 98 17:54 Operator:
Sample : PEM08 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 6 8:48 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration



(16) 4,4'-DDD (A)

25.99min 1.503ng/ml m

response 12736

(16) 4,4'-DDD #2 (A)

29.71min 1.347ng/ml m

response 11949

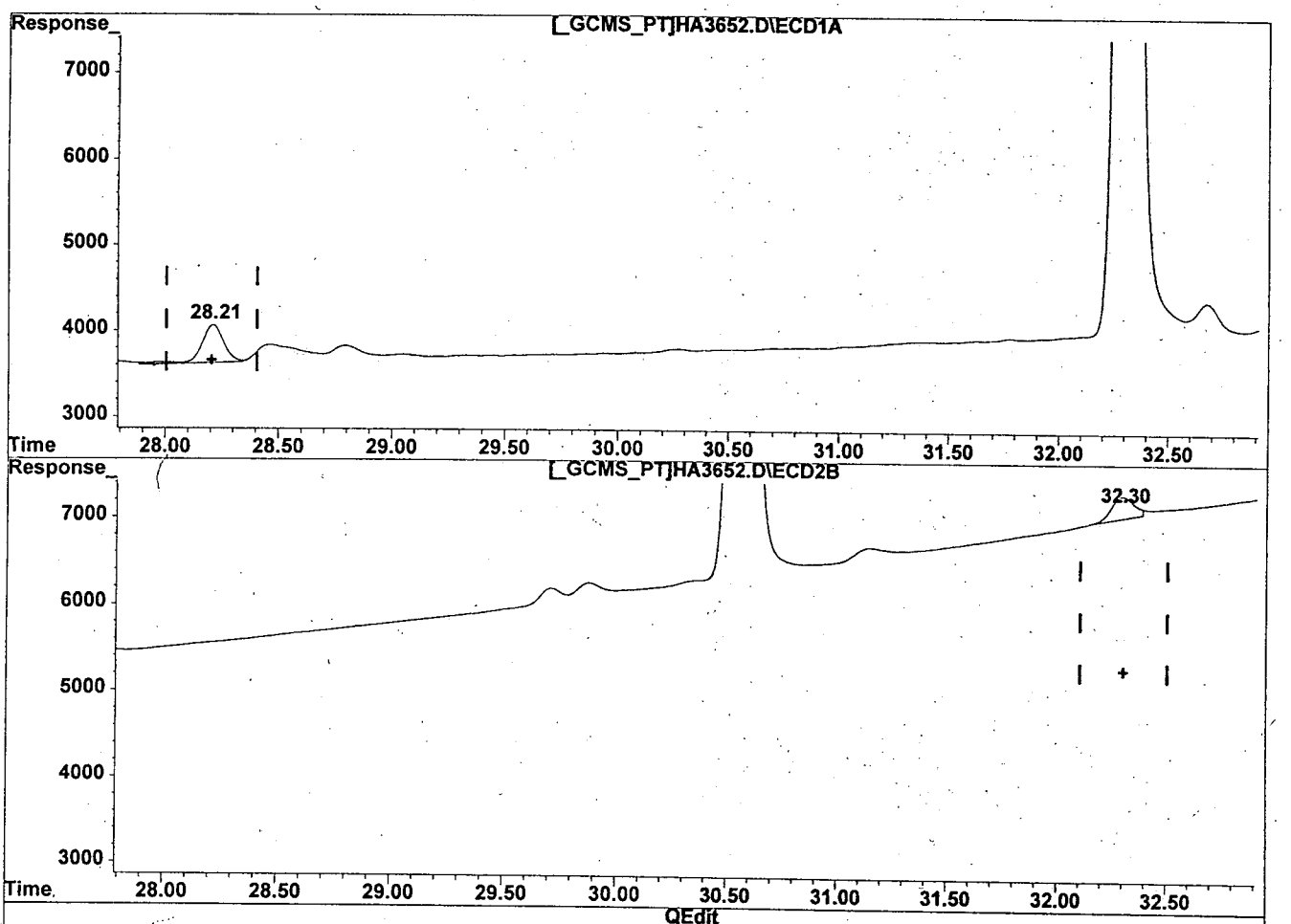
(+) = Expected Retention Time

HA3652.D CLP_8.M Fri Apr 10 18:26:10 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3652.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3652.D\ECD2B.CH
Acq On : 5 Apr 98 17:54 Operator:
Sample : PEM08 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 6 8:48 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration



(18) Endrin aldehyde (B)

28.21min 2.884ng/ml

response 30950

(18) Endrin aldehyde #2 (B)

32.30min 1.686ng/ml m

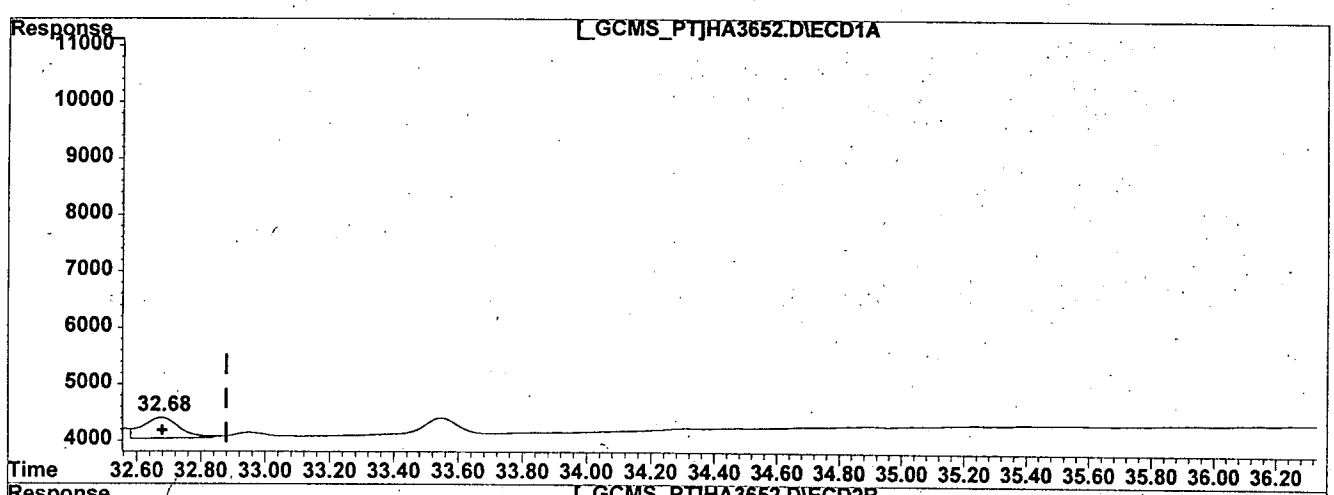
response 18166

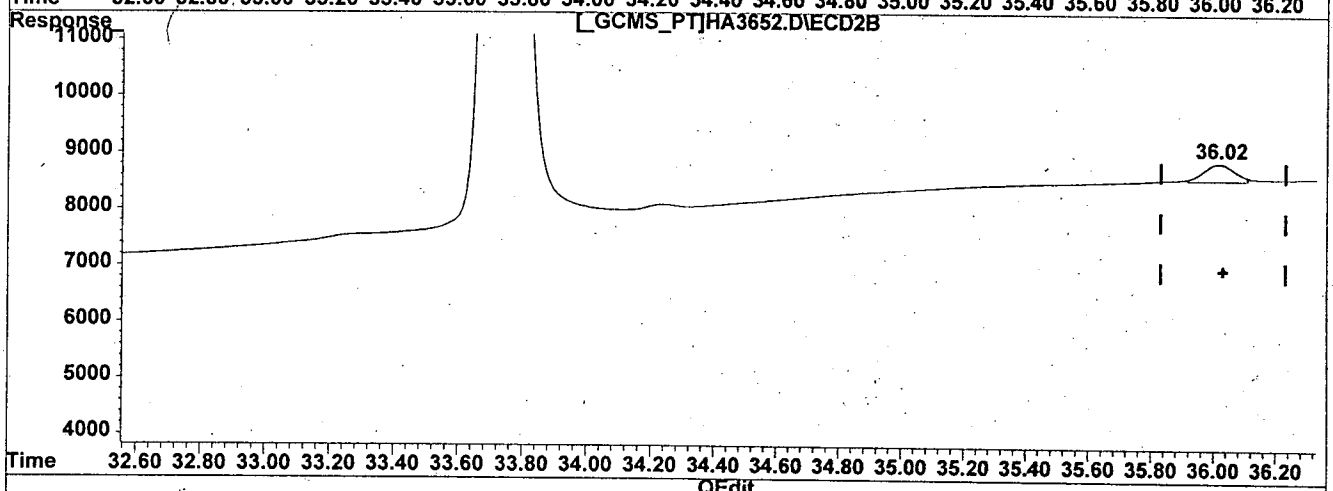
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3652.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3652.D\ECD2B.CH
Acq On : 5 Apr 98 17:54 Operator:
Sample : PEM08 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 6 8:48 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(21) Endrin ketone (B)

32.68min 2.717ng/ml

response 29574

(21) Endrin ketone #2 (B)

36.02min 1.930ng/ml m

response 21235

(+) = Expected Retention Time

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3665.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3665.D\ECD2B.CH
Acq On : 6 Apr 98 16:40 Operator:
Sample : PEM09 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 7 13:19 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.42	10.22	269999	261418	16.543	20.798 # 0.02
Spiked Amount 40.000 Range 60 - 150 Recovery =					41.36%#	51.99%#
2) SA Decachlorobiphen	39.48	41.52	410357	486449	18.475	18.319
Spiked Amount 40.000 Range 60 - 150 Recovery =					46.19%#	45.80%#
Target Compounds						
2) A alpha-BHC	11.08	14.36	124014	86493	9.617	7.527 0.01
3) MA gamma-BHC (Linda	13.01	16.47	101803	138891	7.656	11.699 #
6) B beta-BHC	14.23	20.57	72402	67786	9.161	10.609
12) B 4,4'-DDE	22.69	25.54	28554	17087	2.605m	1.651m#
14) MA Endrin	25.06	27.59	511126	502912	38.014m	38.047m 0.05
16) A 4,4'-DDD	25.98	29.71	15221	14113	1.796m	1.591m
17) MA 4,4'-DDT	27.48	30.56	954145	1015158	100.794	104.950 0.10
18) B Endrin aldehyde	28.20	32.29	27386	18996	2.552	1.763m#
20) A Methoxychlor	32.30	33.73	1264782	1773811	219.767	227.707 0.25
21) B Endrin ketone	32.67	36.01	32011	22852	2.940	2.077m#
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
Sul 5.31 5.6
DDT 4.401 3.24
Endrin 10.98 7.68
Total 15.38 10.92

4/7/98

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3665.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3665.D\ECD2B.CH
Acq On : 6 Apr 98 16:40 Operator:
Sample : PEM09 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 7 13:19 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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

7/7/98

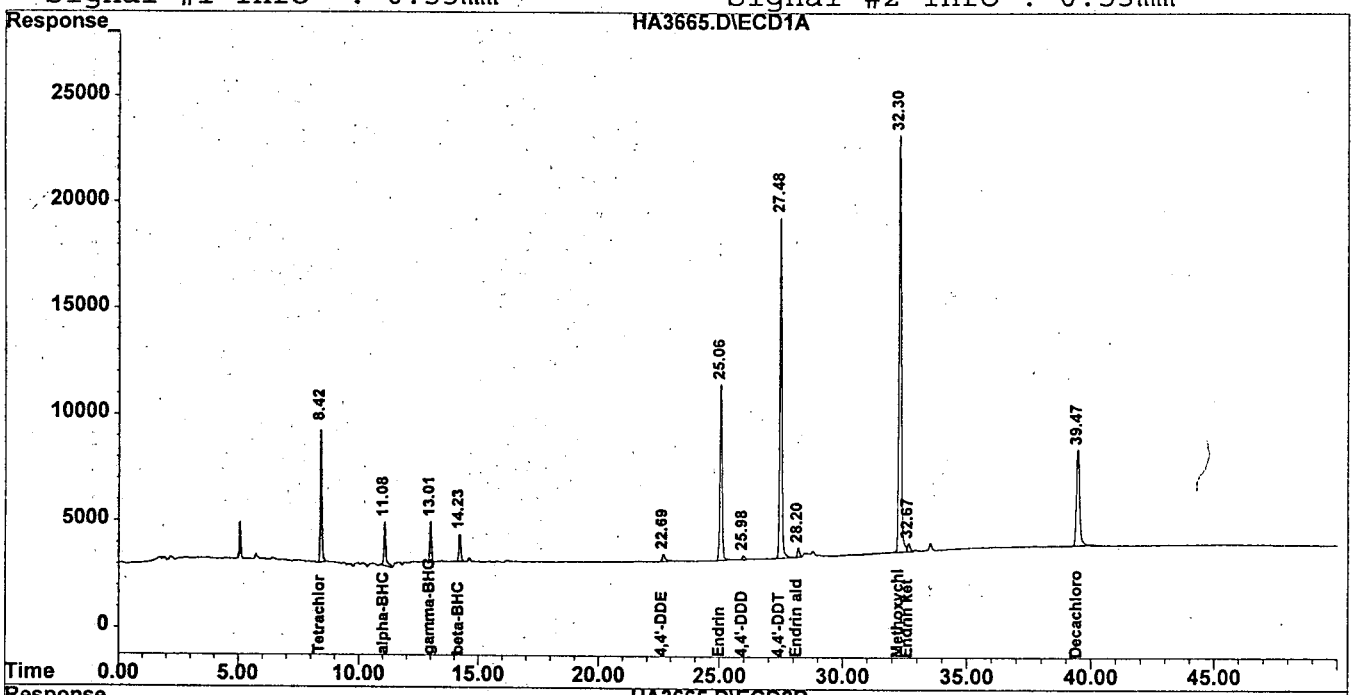
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

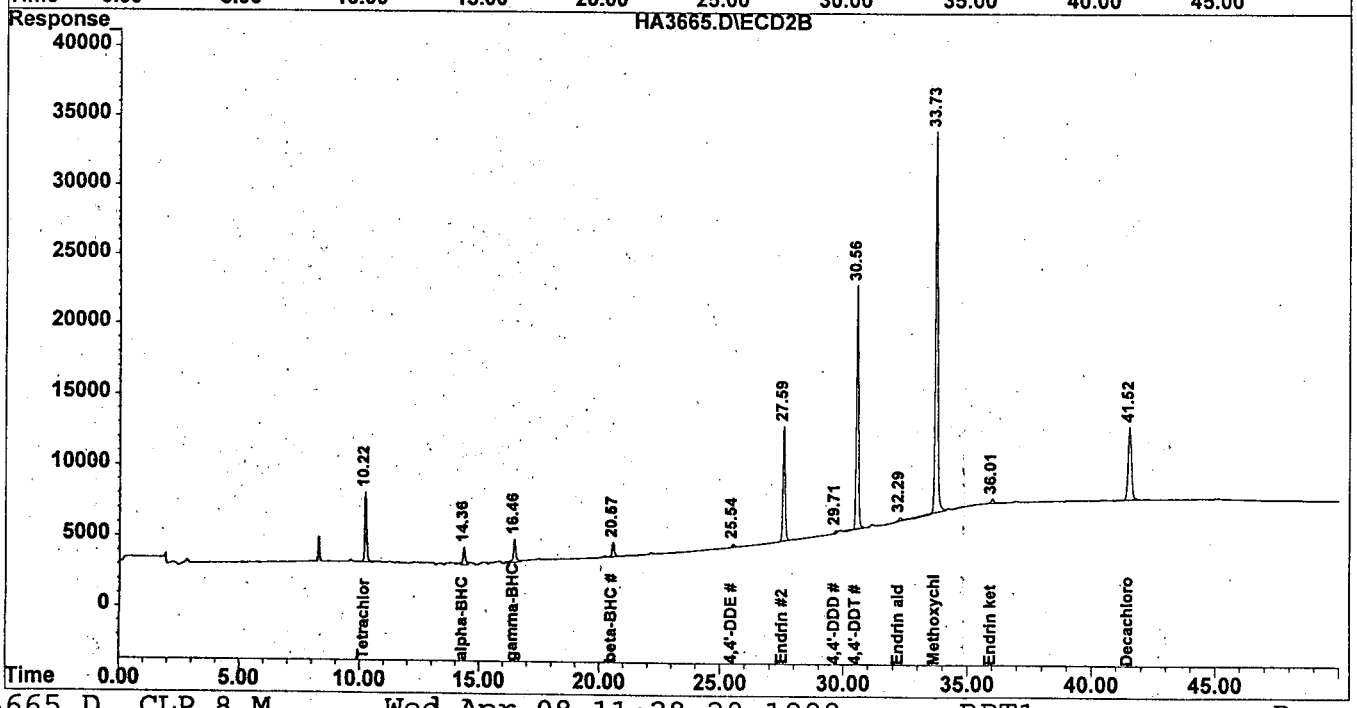
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3665.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3665.D\ECD2B.CH
Acq On : 6 Apr 98 16:40 Operator:
Sample : PEM09 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 7 13:19 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

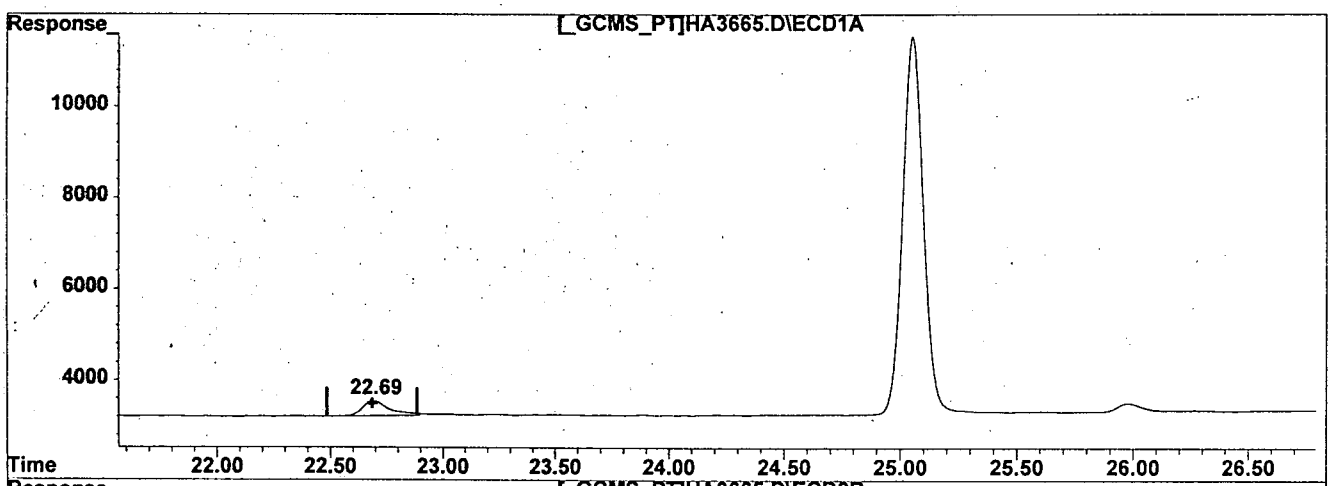


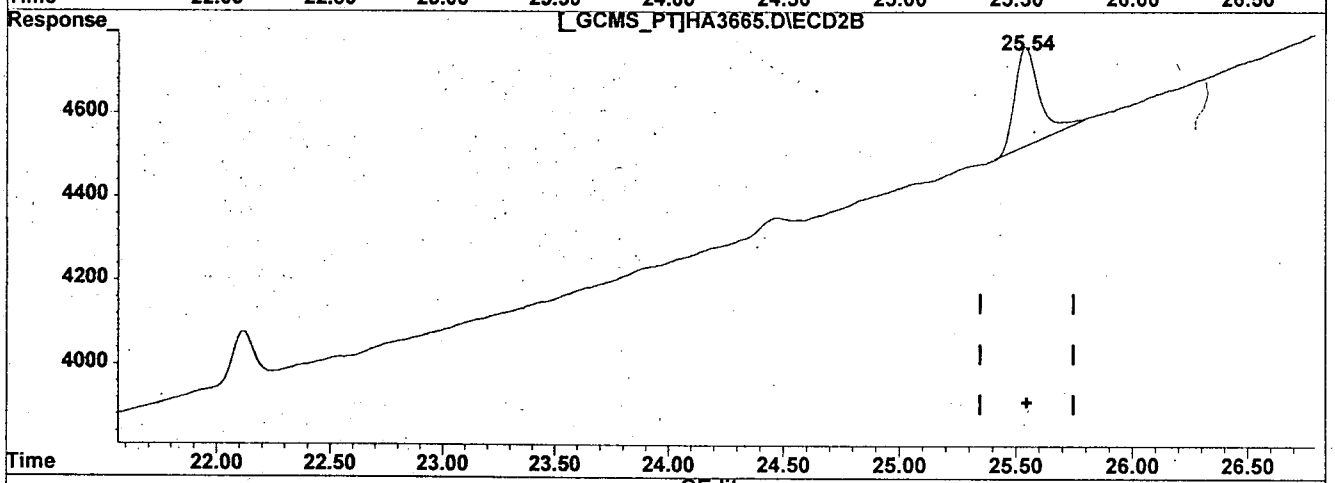


Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3665.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3665.D\ECD2B.CH
Acq On : 6 Apr 98 16:40 Operator:
Sample : PEM09 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 7 13:19 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(12) 4,4'-DDE (B)

22.69min 2.605ng/ml m

response 28554

(12) 4,4'-DDE #2 (B)

25.54min 1.651ng/ml m

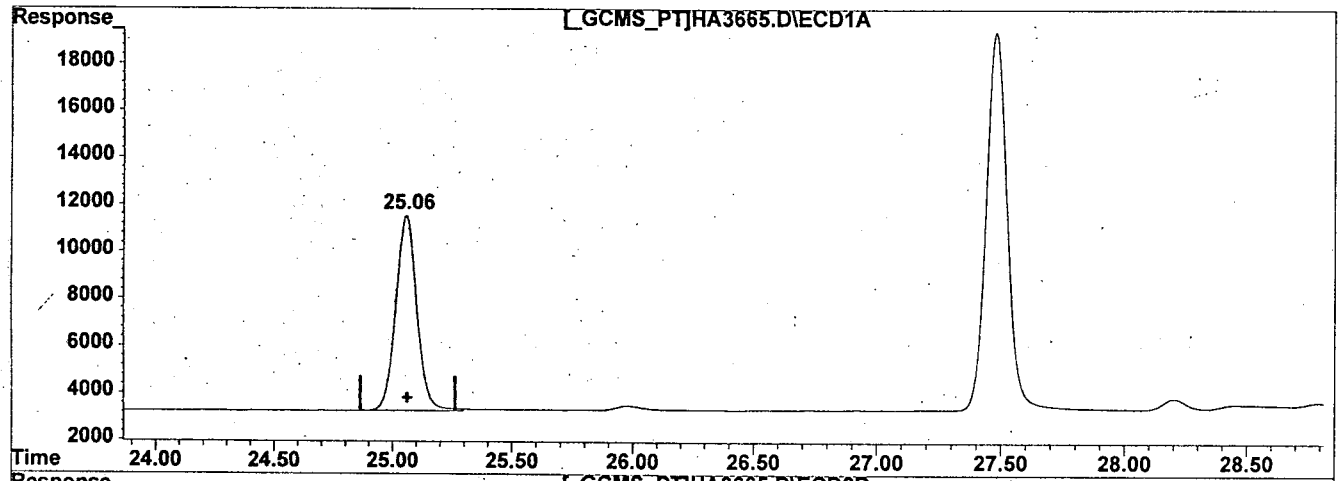
response 17087

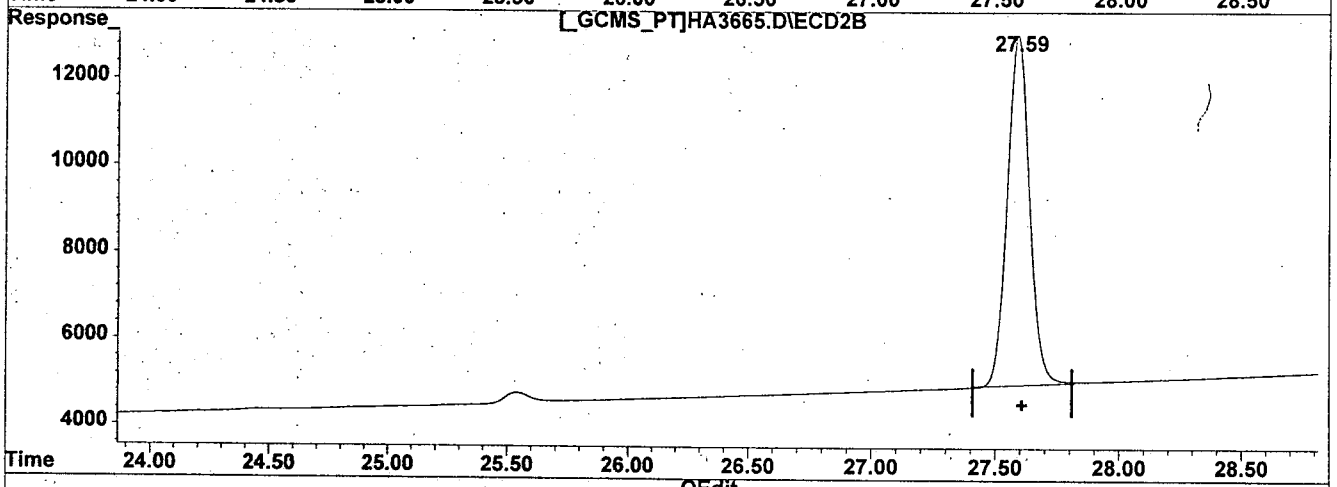
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3665.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3665.D\ECD2B.CH
Acq On : 6 Apr 98 16:40 Operator:
Sample : PEM09 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 7 13:19 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(14) Endrin (MA)

25.06min 38.014ng/ml m

response 511126

(14) Endrin #2 (MA)

27.59min 38.047ng/ml m

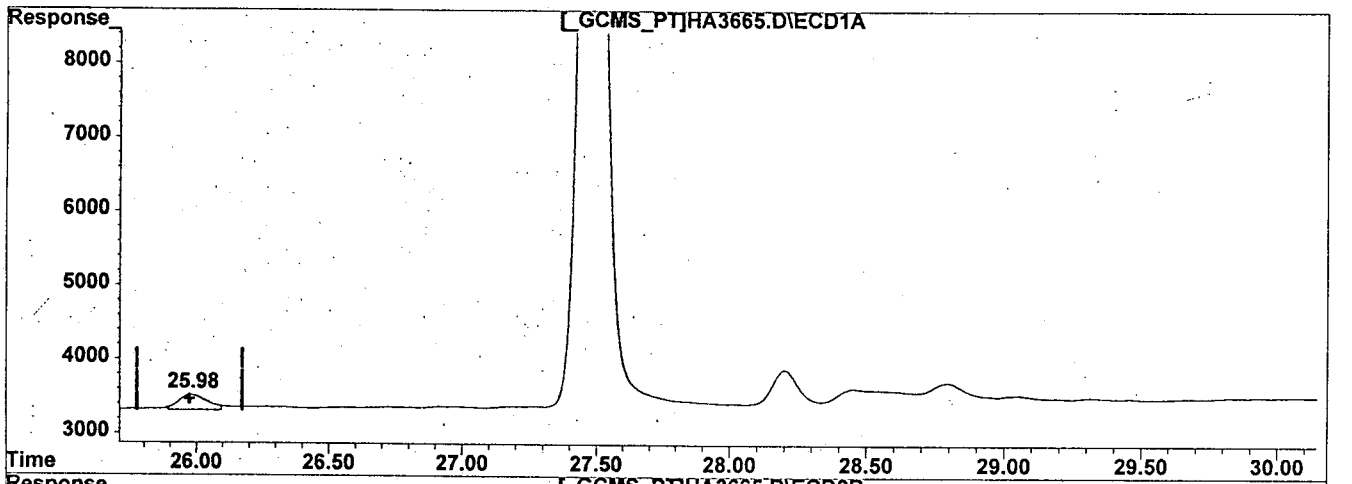
response 502912

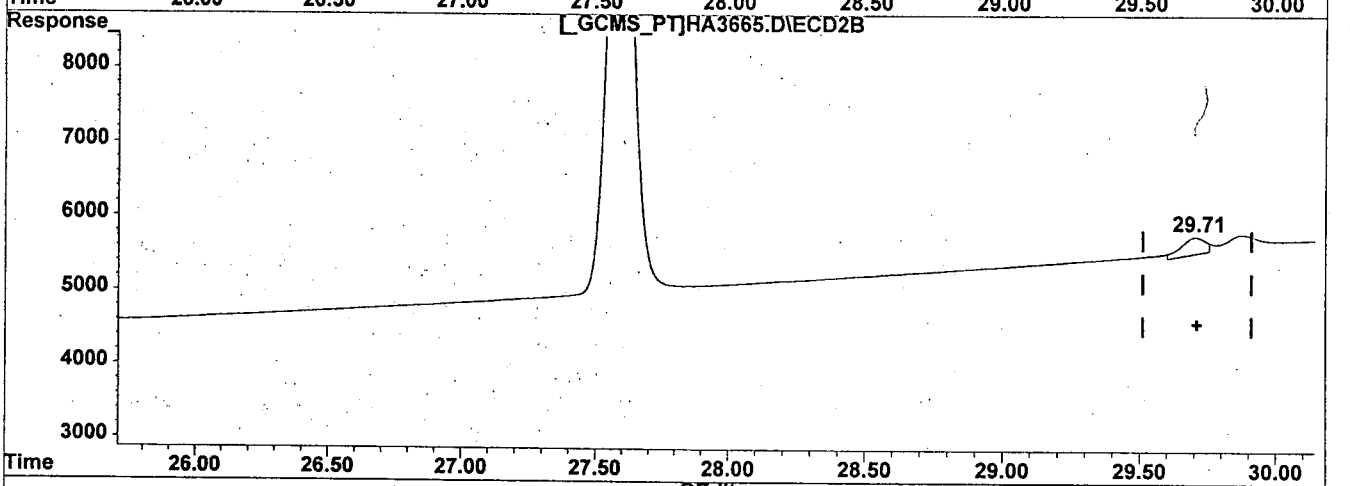
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3665.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3665.D\ECD2B.CH
Acq On : 6 Apr 98 16:40 Operator:
Sample : PEM09 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 7 13:19 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(16) 4,4'-DDD (A)

25.98min 1.796ng/ml m

response 15221

(16) 4,4'-DDD #2 (A)

29.71min 1.591ng/ml m

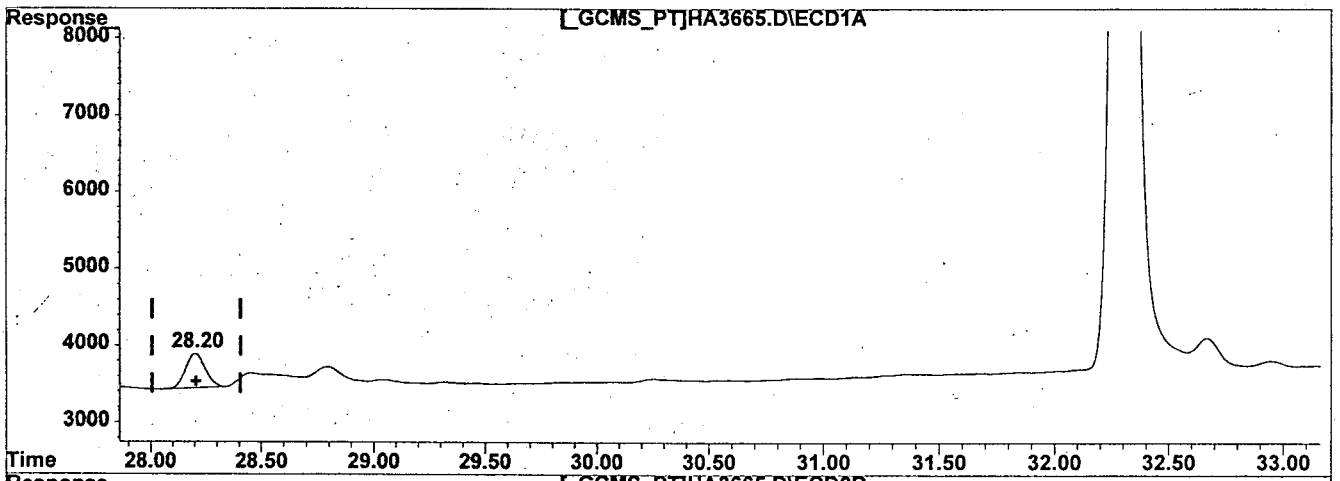
response 14113

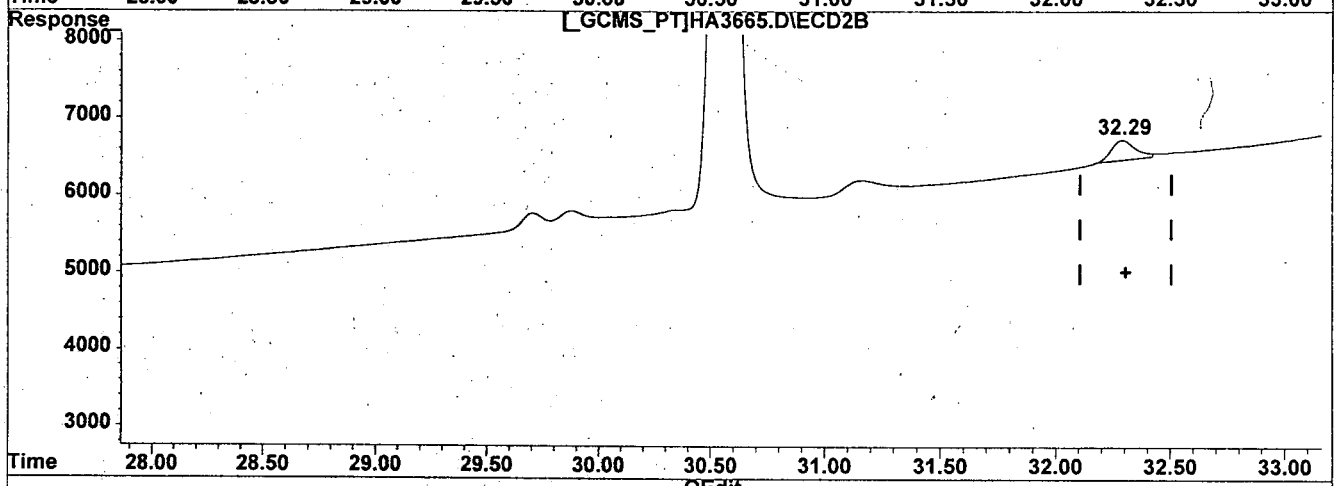
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3665.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3665.D\ECD2B.CH
Acq On : 6 Apr 98 16:40 Operator:
Sample : PEM09 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 7 13:19 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





(18) Endrin aldehyde (B)

28.20min 2.552ng/ml

response 27386

(18) Endrin aldehyde #2 (B)

32.29min 1.763ng/ml m

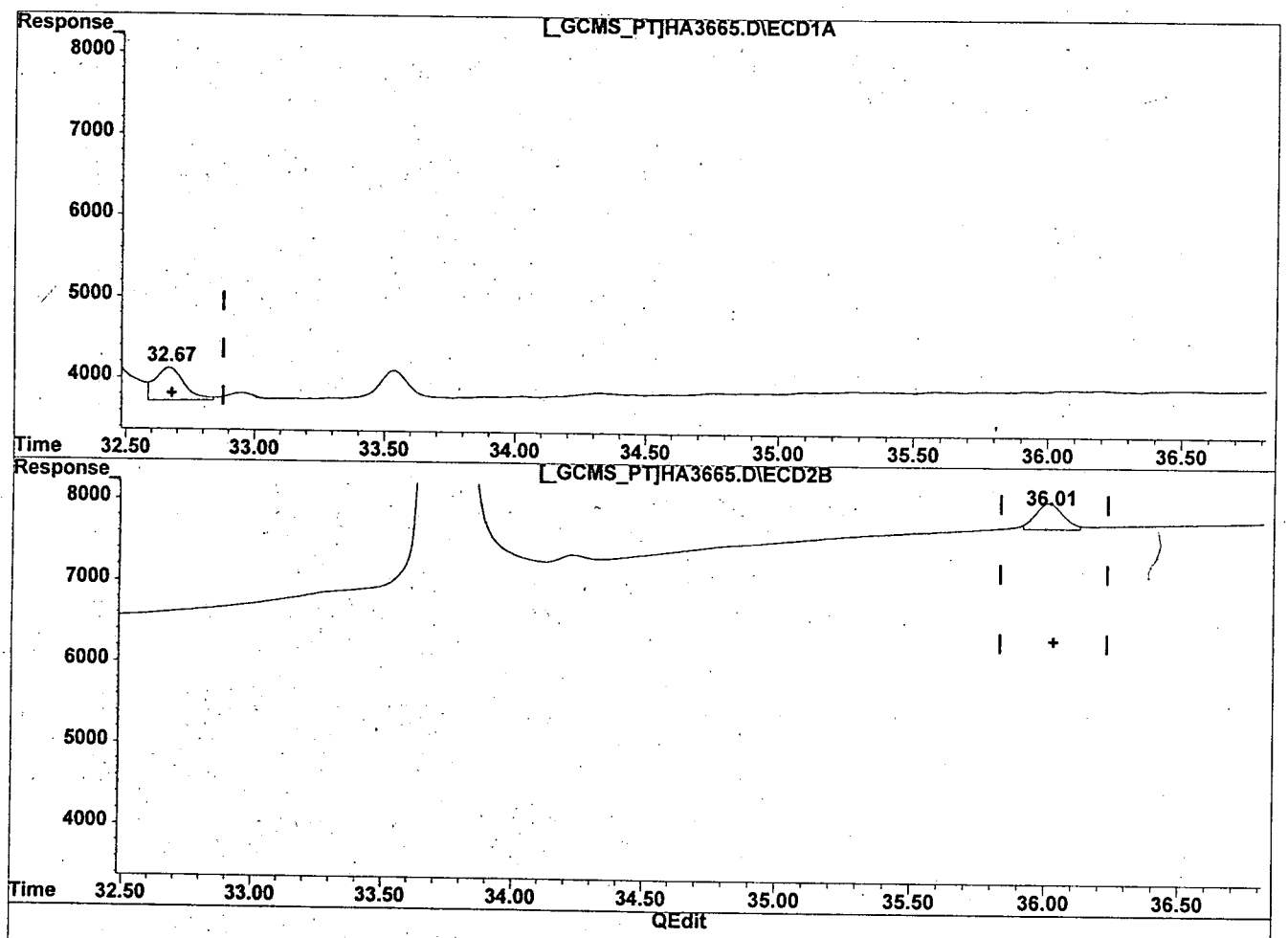
response 18996

(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3665.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3665.D\ECD2B.CH
Acq On : 6 Apr 98 16:40 Operator:
Sample : PEM09 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 7 13:19 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration



(21) Endrin ketone (B)

32.67min 2.940ng/ml

response 32011

(21) Endrin ketone #2 (B)

36.01min 2.077ng/ml m

response 22852

(+) = Expected Retention Time

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3682.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3682.D\ECD2B.CH
Acq On : 7 Apr 98 18:42 Operator:
Sample : PEM10 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 8 16:05 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.42	10.21	270704	260096	16.586	20.693 m3INS 0.02
Spiked Amount 40.000 Range 60 - 150 Recovery =					41.47%#	51.73%#
2) SA Decachlorobiphen	39.47	41.51	400226	480761	18.019	18.105 0.02
Spiked Amount 40.000 Range 60 - 150 Recovery =					45.05%#	45.26%#
Target Compounds						
2) A alpha-BHC	11.07	14.35	133688	94343	10.368	8.210m 0.01
3) MA gamma-BHC (Linda	13.00	16.46	102352	92800	7.697m	7.817m
5) B beta-BHC	14.22	20.57	71592	63874	9.058	9.996
12) B 4,4'-DDE	22.69	25.54	20505	14417	1.871m	1.393m#
14) MA Endrin	25.06	27.59	516143	516958	38.387m	39.109m 0.05
15) A 4,4'-DDD	25.98	29.70	17061	22687	2.013m	2.557m#
17) MA 4,4'-DDT	27.48	30.56	959859	1019968	101.397	105.447 0.10
18) B Endrin aldehyde	28.20	32.28	27565	18250	2.568	1.694m#
20) A Methoxychlor	32.30	33.73	1289265	1800737	224.021	231.163 0.25
21) B Endrin ketone	32.67	36.00	24691	23120	2.268m	2.102m
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
5,72 5,12
DDT 3.88 3.95
Endrin 9.67 7.59
Total 13.55 11.54

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3682.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3682:D\ECD2B.CH
Acq On : 7 Apr 98 18:42 Operator:
Sample : PEM10 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 8 16:05 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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

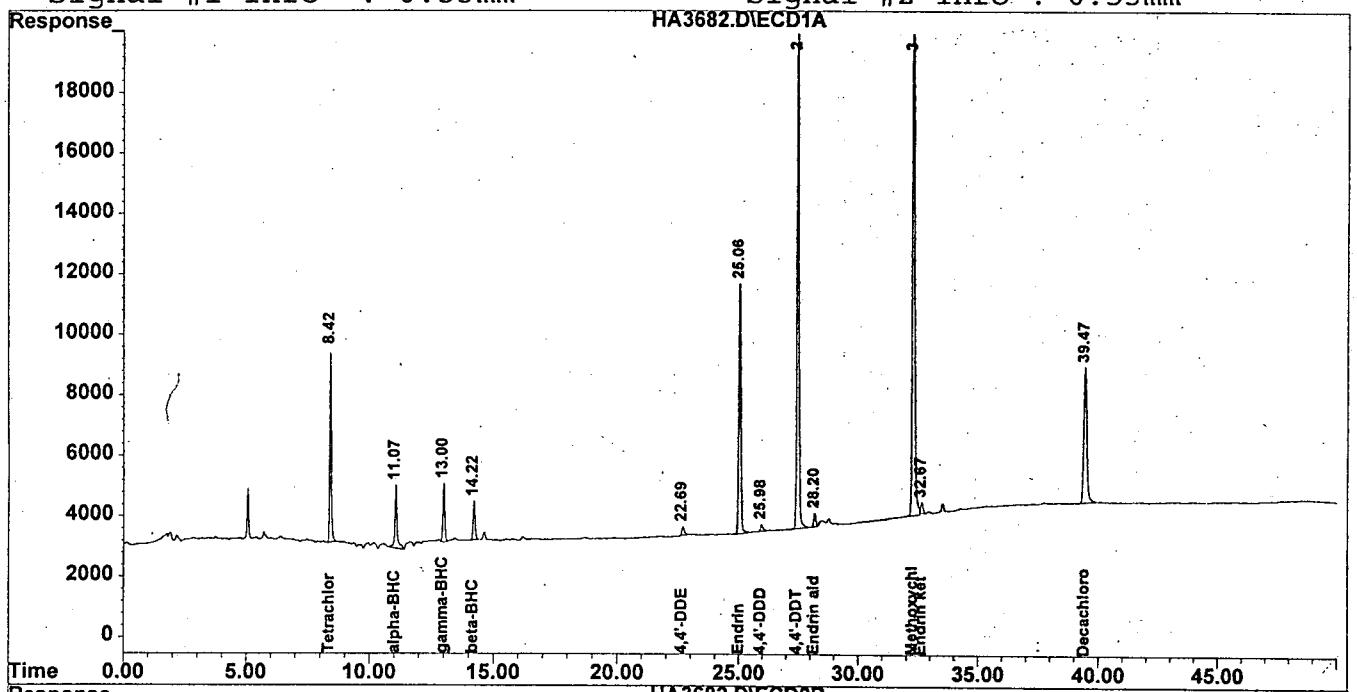
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

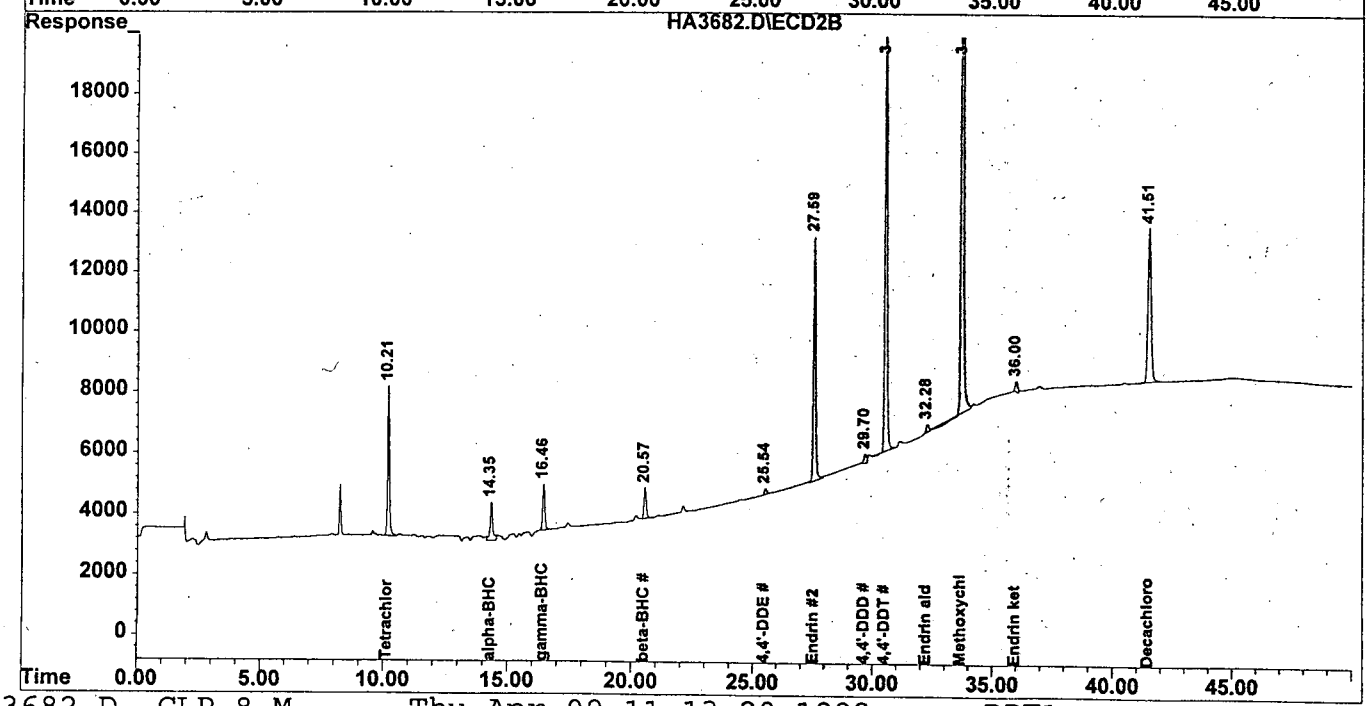
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3682.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3682.D\ECD2B.CH
Acq On : 7 Apr 98 18:42 Operator:
Sample : PEM10 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 8 16:05 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

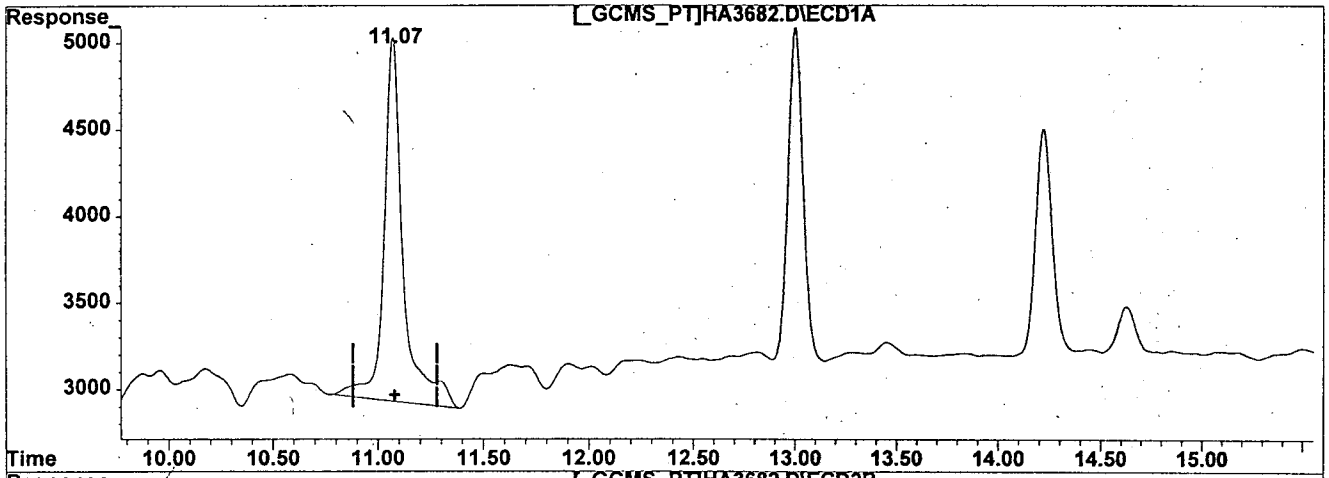


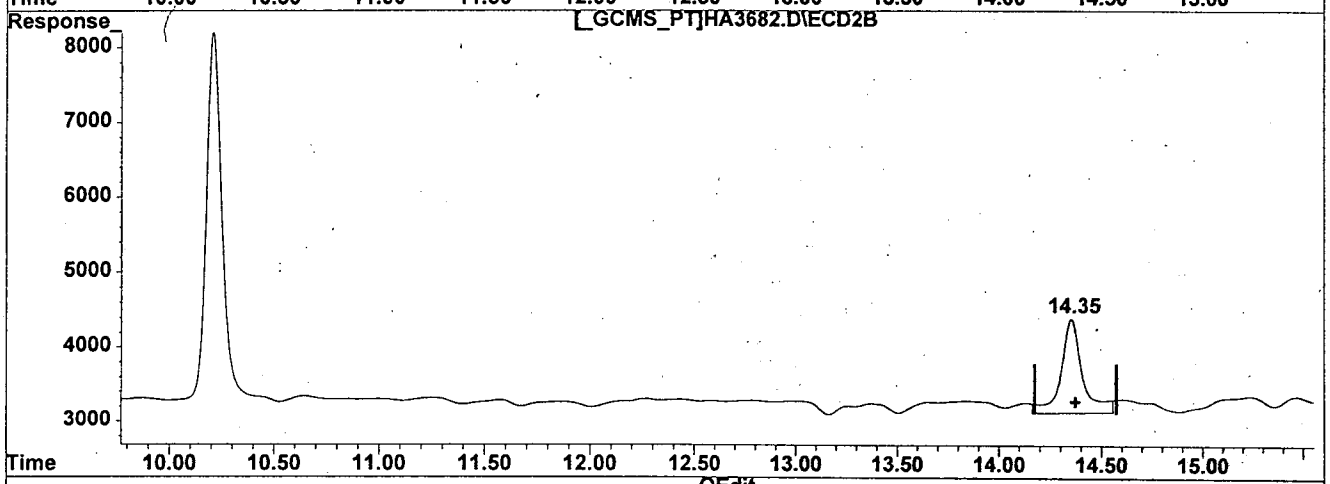


Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3682.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3682.D\ECD2B.CH
Acq On : 7 Apr 98 18:42 Operator:
Sample : PEM10 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 8 16:05 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(2) alpha-BHC (A)

11.07min 10.368ng/ml

response 133688

(2) alpha-BHC #2 (A)

14.35min 8.210ng/ml m

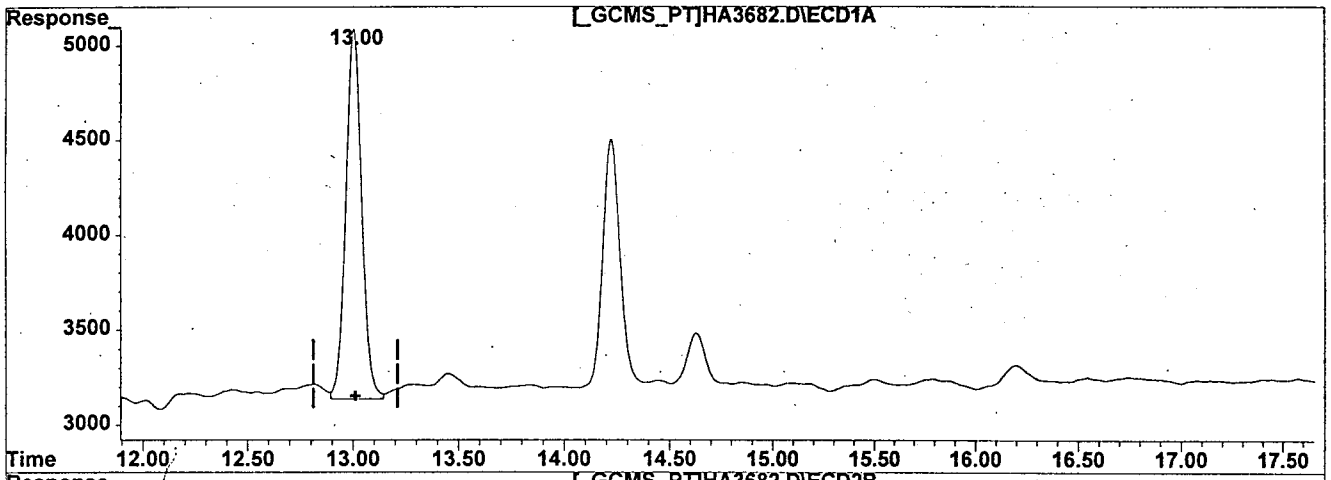
response 94343

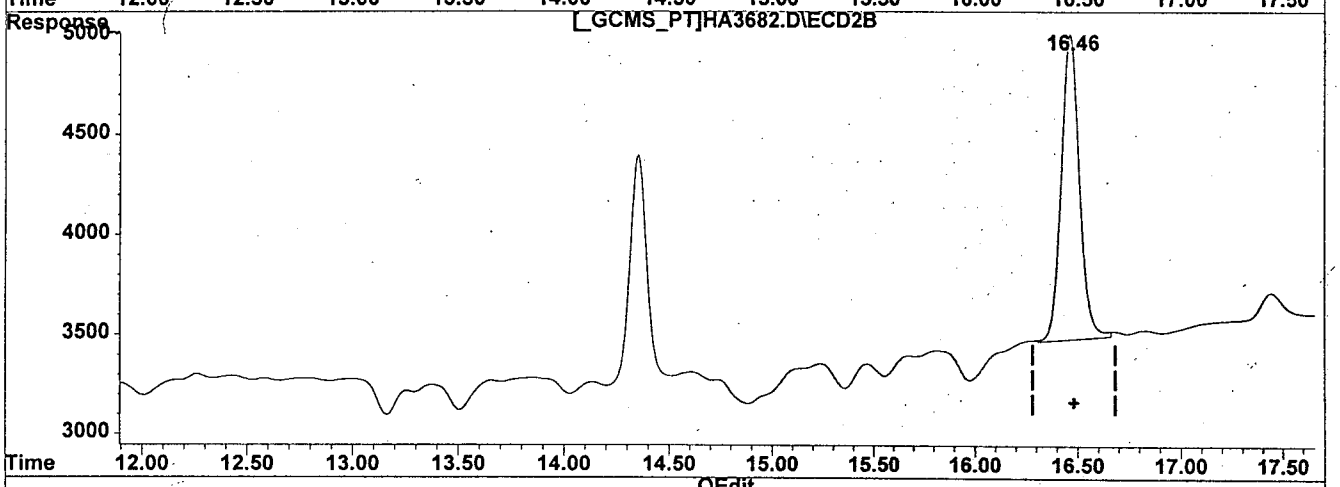
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3682.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3682.D\ECD2B.CH
Acq On : 7 Apr 98 18:42 Operator:
Sample : PEM10 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 8 16:05 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(3) gamma-BHC (Lindane) (MA)

13.00min 7.697ng/ml m

response 102352

(3) gamma-BHC (Lindane) #2 (MA)

16.46min 7.817ng/ml m

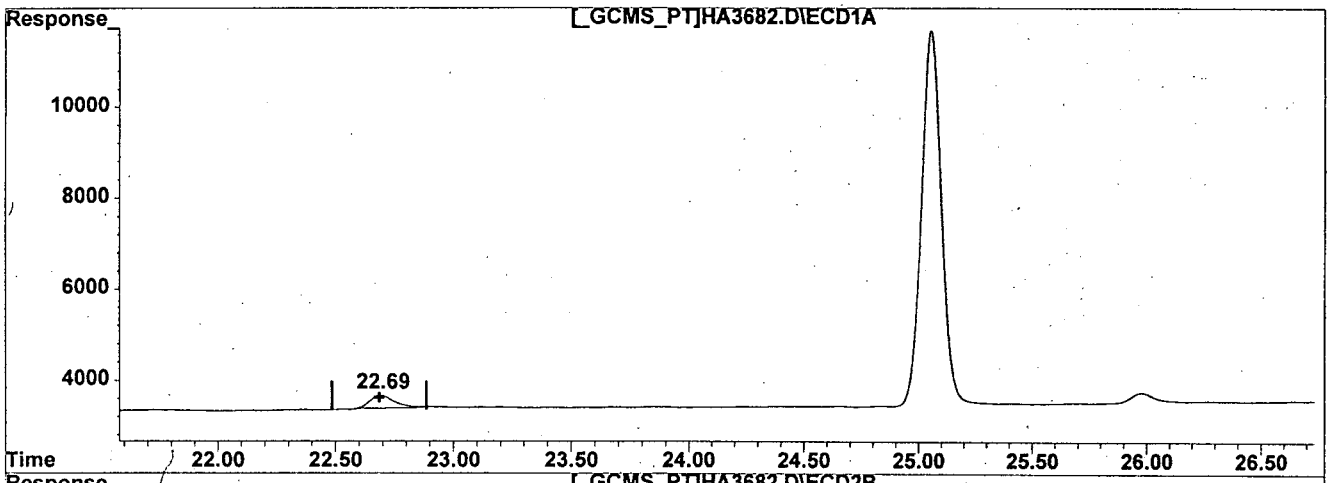
response 92800

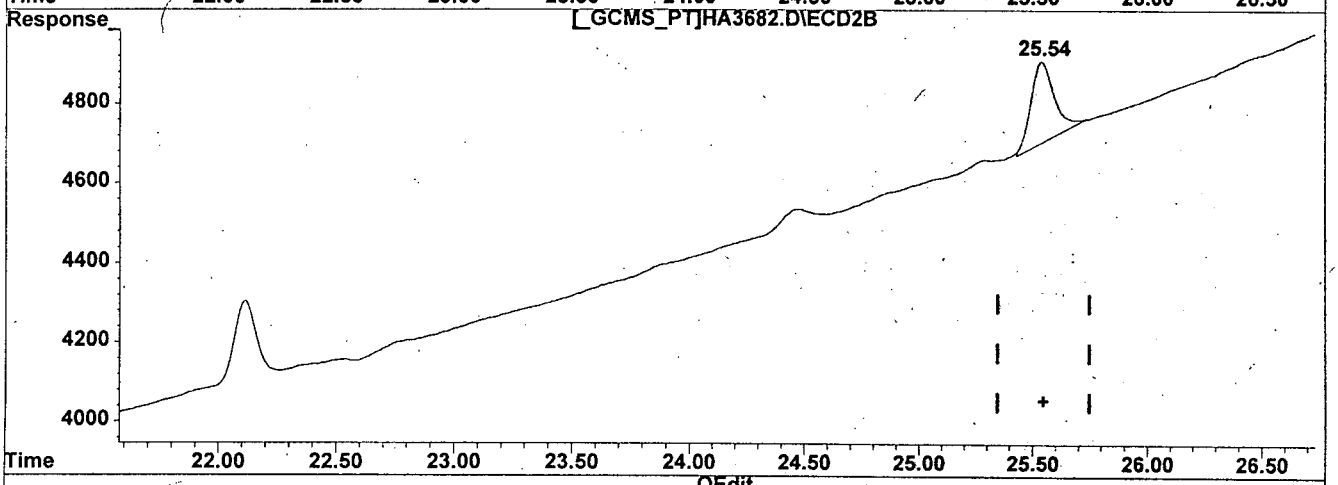
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3682.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3682.D\ECD2B.CH
Acq On : 7 Apr 98 18:42 Operator:
Sample : PEM10 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 8 16:05 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





(12) 4,4'-DDE (B)

22.69min 1.871ng/ml m

response 20505

(12) 4,4'-DDE #2 (B)

25.54min 1.393ng/ml m

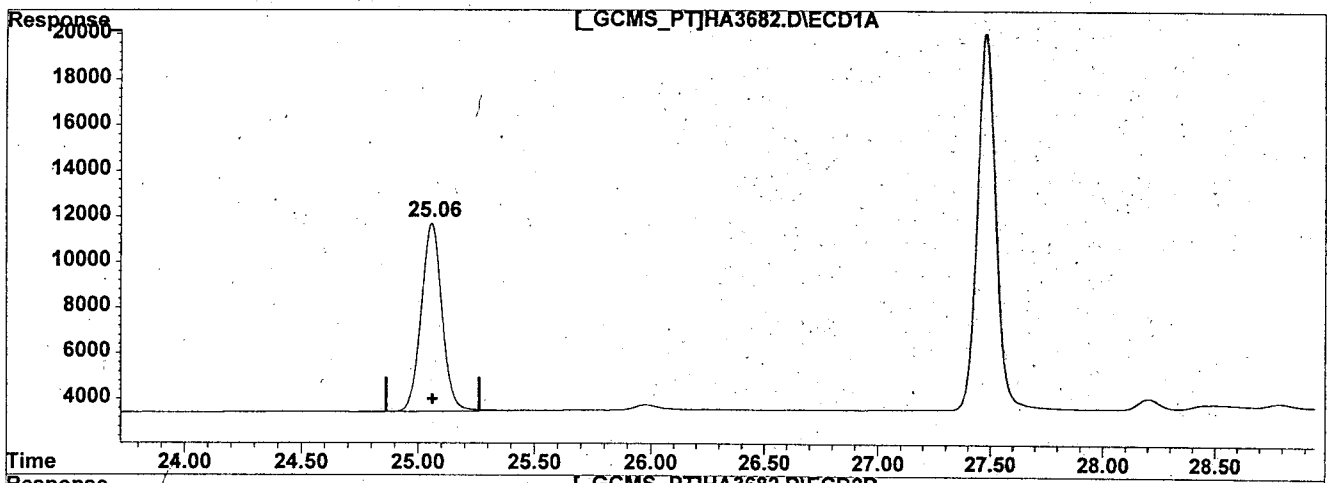
response 14417

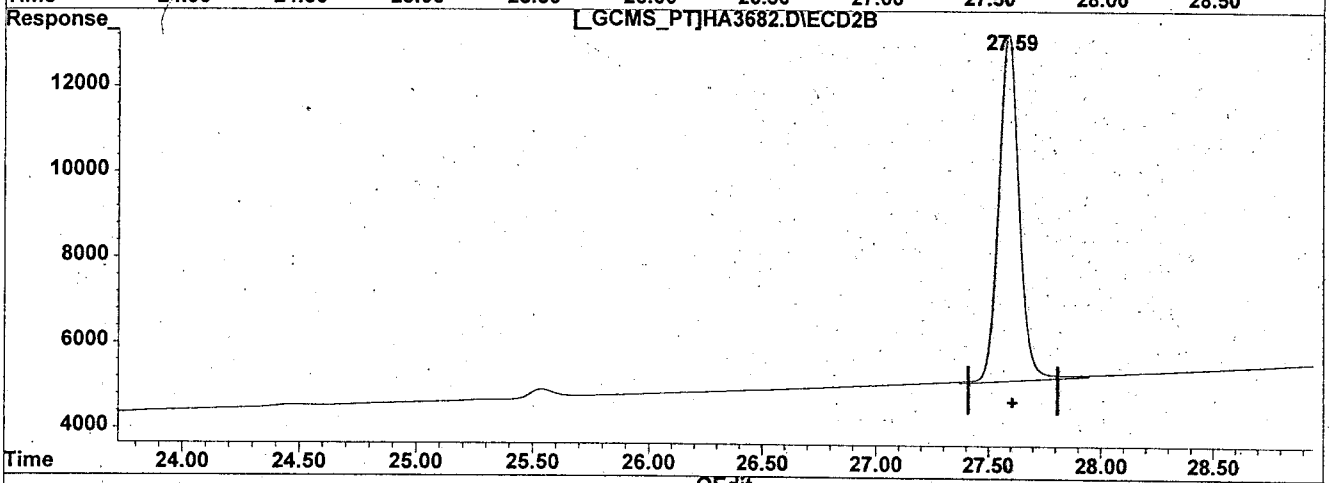
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3682.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3682.D\ECD2B.CH
Acq On : 7 Apr 98 18:42 Operator:
Sample : PEM10 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 8 16:05 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(14) Endrin (MA)

25.06min 38.387ng/ml m

response 516143

(14) Endrin #2 (MA)

27.59min 39.109ng/ml m

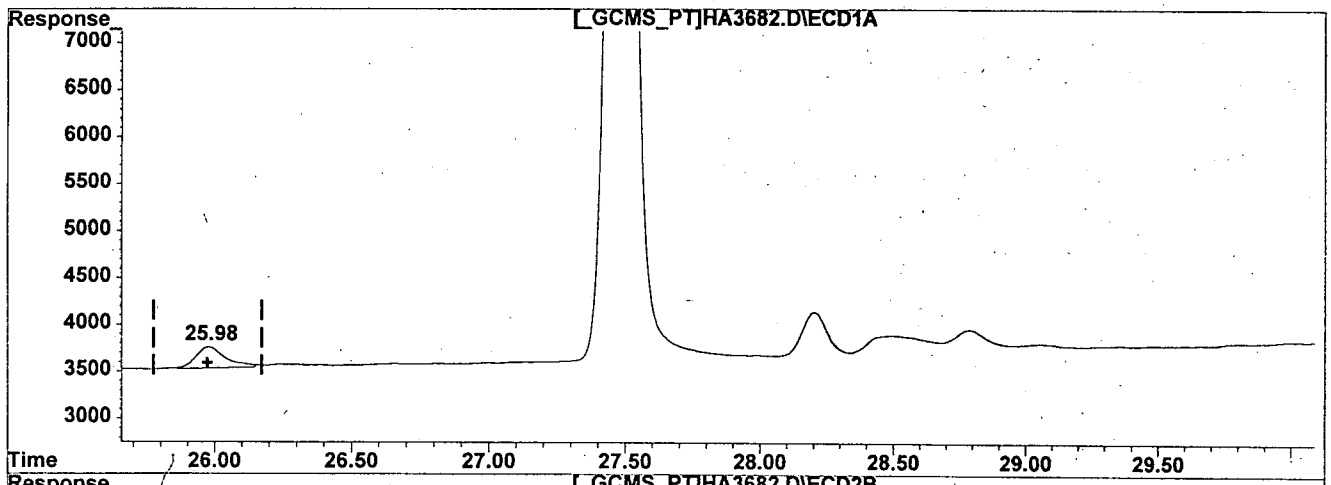
response 516958

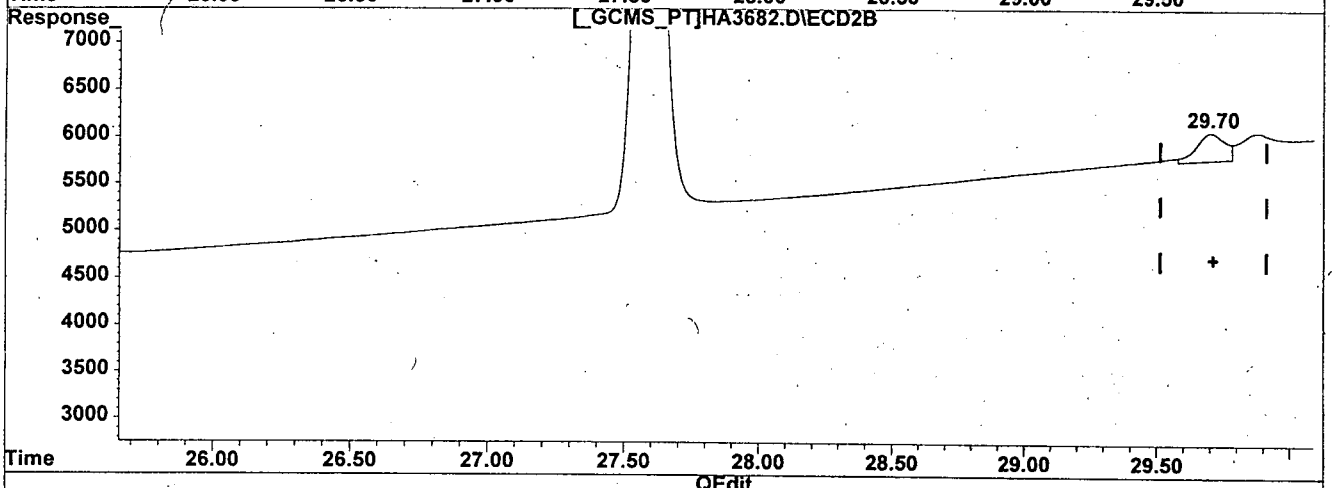
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3682.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3682.D\ECD2B.CH
Acq On : 7 Apr 98 18:42 Operator:
Sample : PEM10 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 8 16:05 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(16) 4,4'-DDD (A)

25.98min 2.013ng/ml m

response 17061

(16) 4,4'-DDD #2 (A)

29.70min 2.557ng/ml m

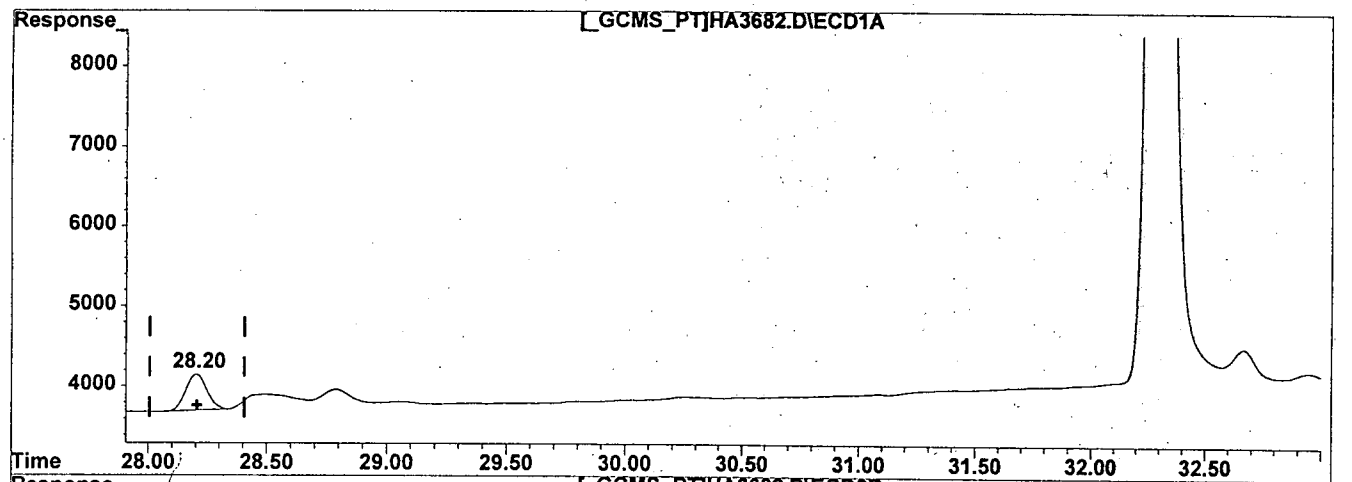
response 22687

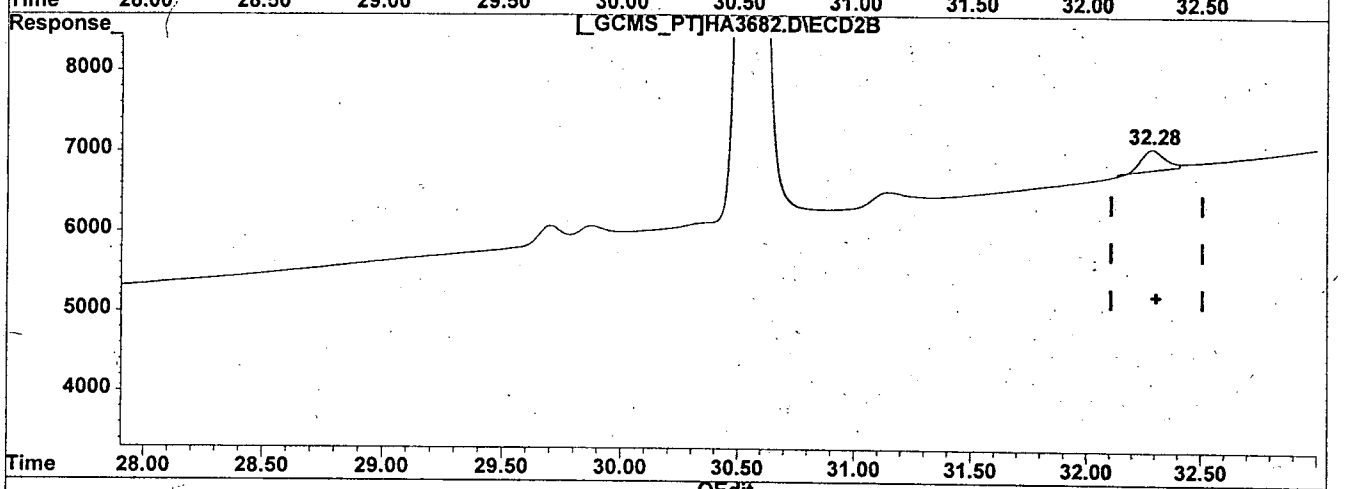
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3682.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3682.D\ECD2B.CH
Acq On : 7 Apr 98 18:42 Operator:
Sample : PEM10 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 8 16:05 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(18) Endrin aldehyde (B)

28.20min 2.568ng/ml

response 27565

(18) Endrin aldehyde #2 (B)

32.28min 1.694ng/ml m

response 18250

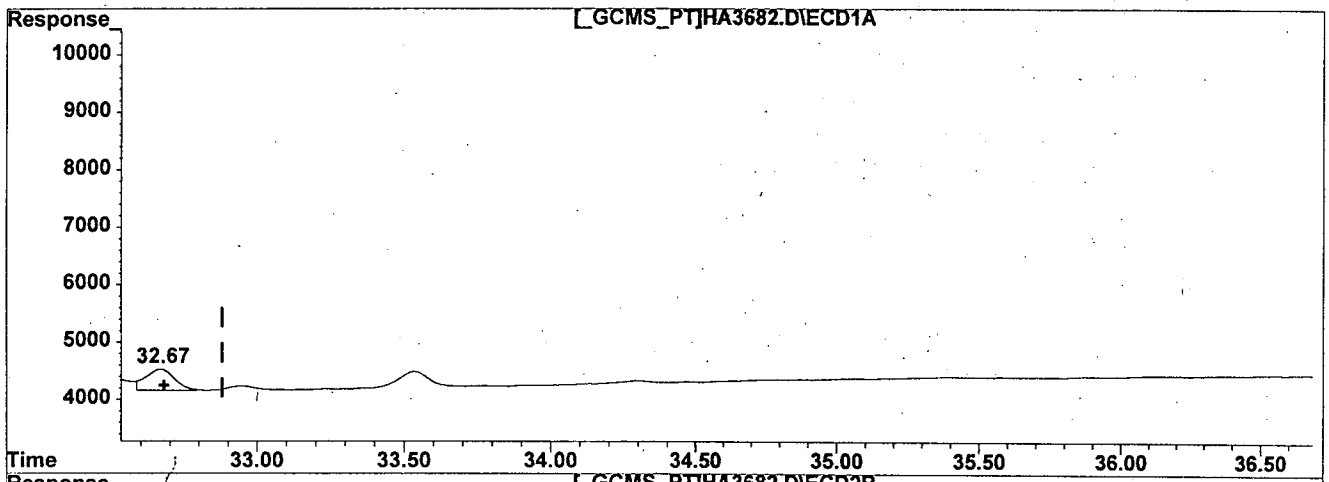
(+) = Expected Retention Time

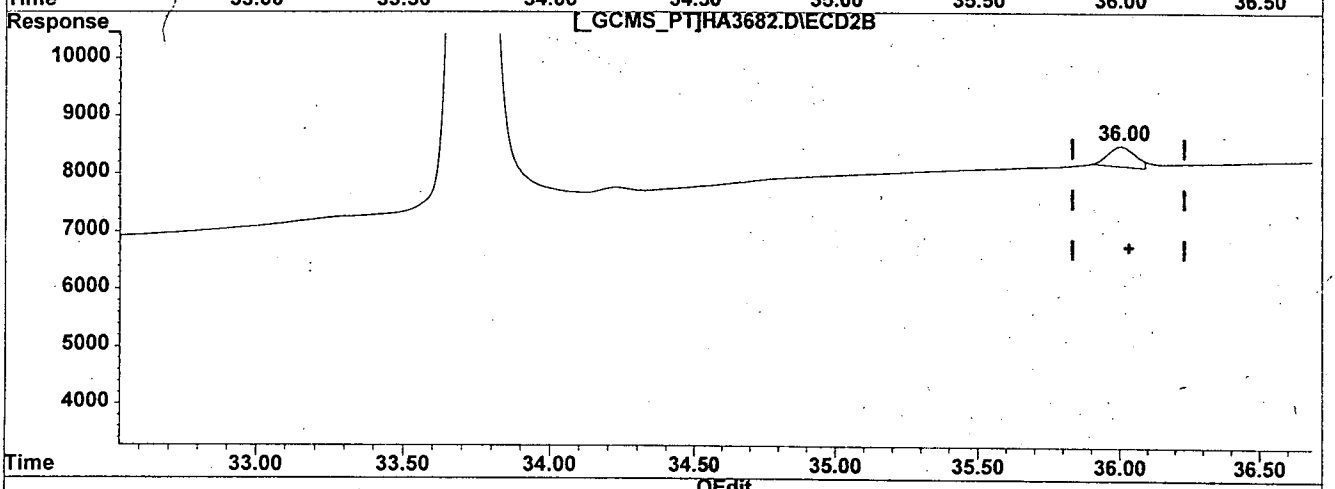
HA3682.D CLP_8.M Fri Apr 10 19:47:51 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3682.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_H\HA3682.D\ECD2B.CH
Acq On : 7 Apr 98 18:42 Operator:
Sample : PEM10 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 8 16:05 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(21) Endrin ketone (B)

32.67min 2.268ng/ml m

response 24691

(21) Endrin ketone #2 (B)

36.00min 2.102ng/ml m

response 23120

(+) = Expected Retention Time

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3696.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA_H\HA3696.D\ECD2B.CH
Acq On : 8 Apr 98 13:33 Operator:
Sample : PEM11 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 9:26 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.42	10.21	273964	264590	16.786	21.050 #0.02
Spiked Amount 40.000 Range 60 - 150 Recovery =					41.97%#	52.63%#
22) SA Decachlorobiphen	39.46	41.50	404705	505731	18.220	19.046m 0.02
Spiked Amount 40.000 Range 60 - 150 Recovery =					45.55%#	47.61%#
Target Compounds						
2) A alpha-BHC	11.07	14.35	135980	94590	10.545	8.232m 0.01
3) MA gamma-BHC (Linda	13.00	16.46	101572	142893	7.638	12.037 #
5) B beta-BHC	14.22	20.56	73916	65060	9.352	10.182
12) B 4,4'-DDE	22.69	25.53	22430	18726	2.046	1.809m
14) MA Endrin	25.05	27.58	507804	501975	37.766	37.976m 0.05
15) A 4,4'-DDD	25.97	29.70	15021	13156	1.773	1.483m
17) MA 4,4'-DDT	27.47	30.55	964227	1022641	101.859	105.723 0.10
18) B Endrin aldehyde	28.19	32.28	31088	19337	2.897	1.795m#
20) A Methoxychlor	32.30	33.72	1311099	1775200	227.814	227.885 0.25
21) B Endrin ketone	32.66	36.00	23853	24330	2.191m	2.212m
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
Sig 1 Sig 2
DDT 3.82 3.29
Endrin 10.18 & 8.01
Total 14.00 11.3

4/8/98

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3696.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA_H\HA3696.D\ECD2B.CH
Acq On : 8 Apr 98 13:33 Operator:
Sample : PEM11 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 9:26 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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

4/9/98

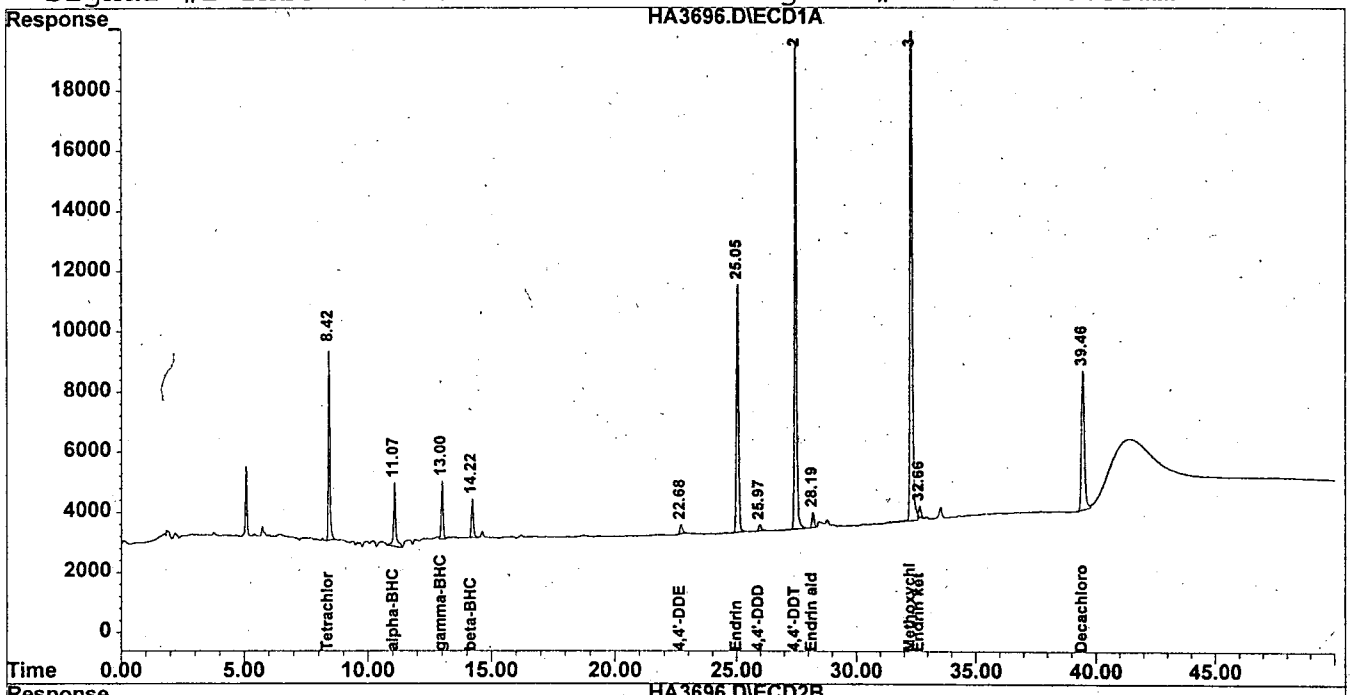
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

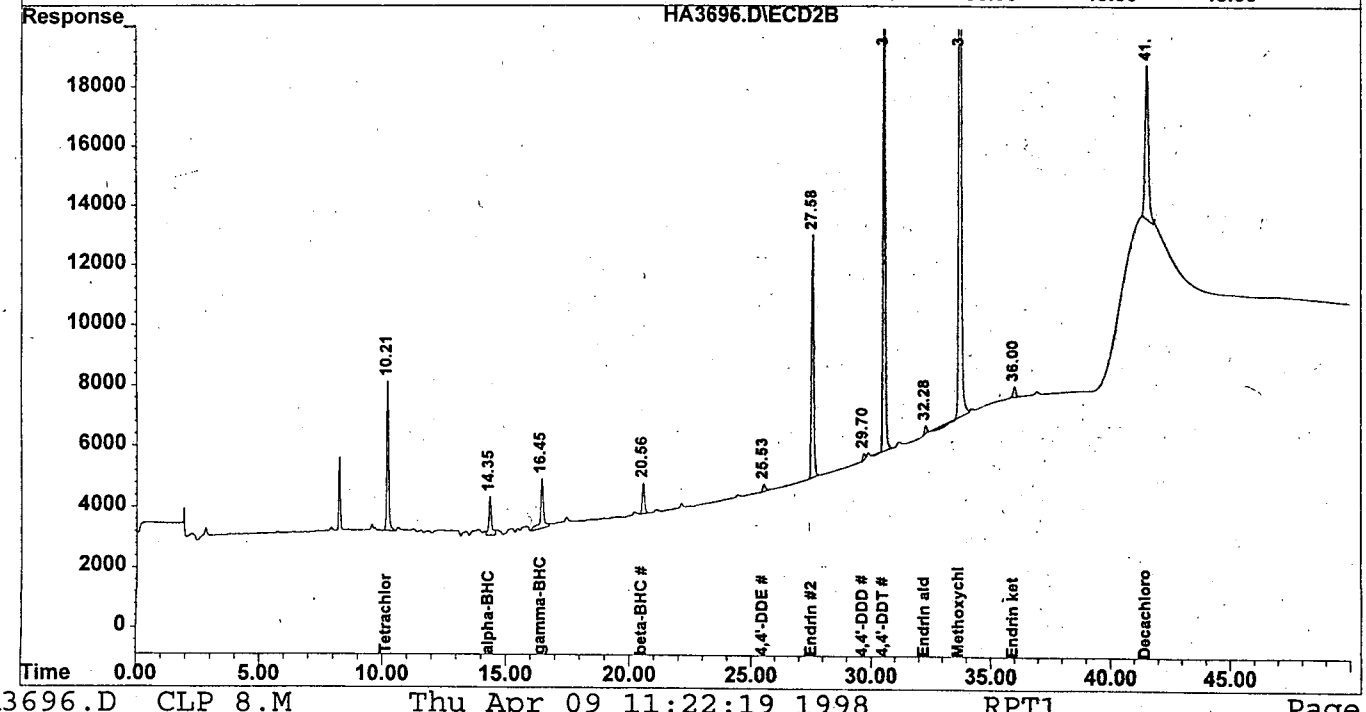
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3696.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA_H\HA3696.D\ECD2B.CH
Acq On : 8 Apr 98 13:33 Operator:
Sample : PEM11 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 9:26 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

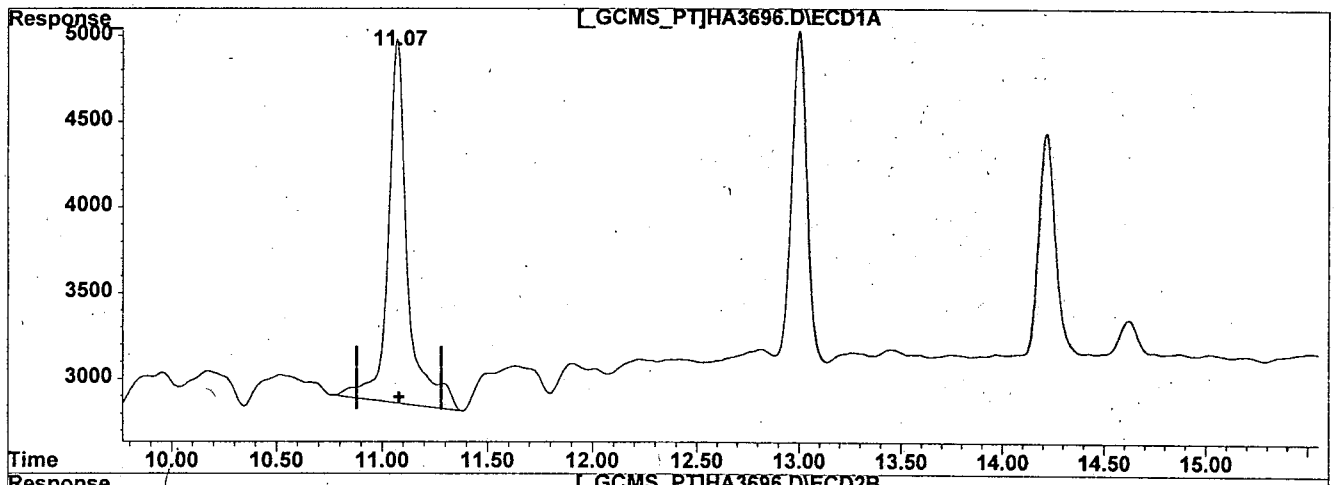


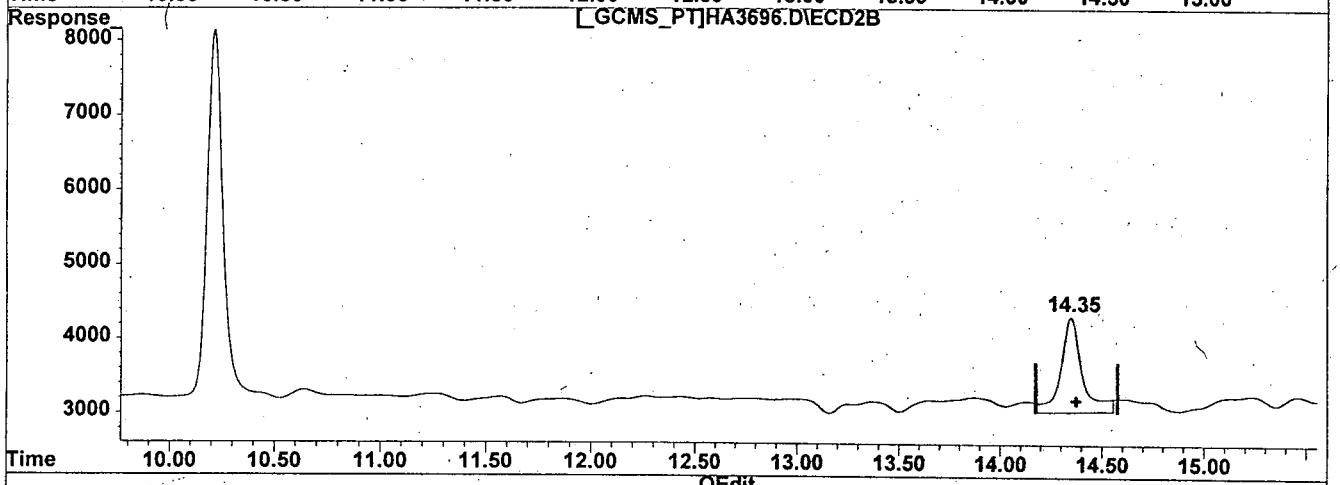


Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3696.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA_H\HA3696.D\ECD2B.CH
Acq On : 8 Apr 98 13:33 Operator:
Sample : PEM11 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 9:26 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(2) alpha-BHC (A)

11.07min 10.545ng/ml

response 135980

(2) alpha-BHC #2 (A)

14.35min 8.232ng/ml m

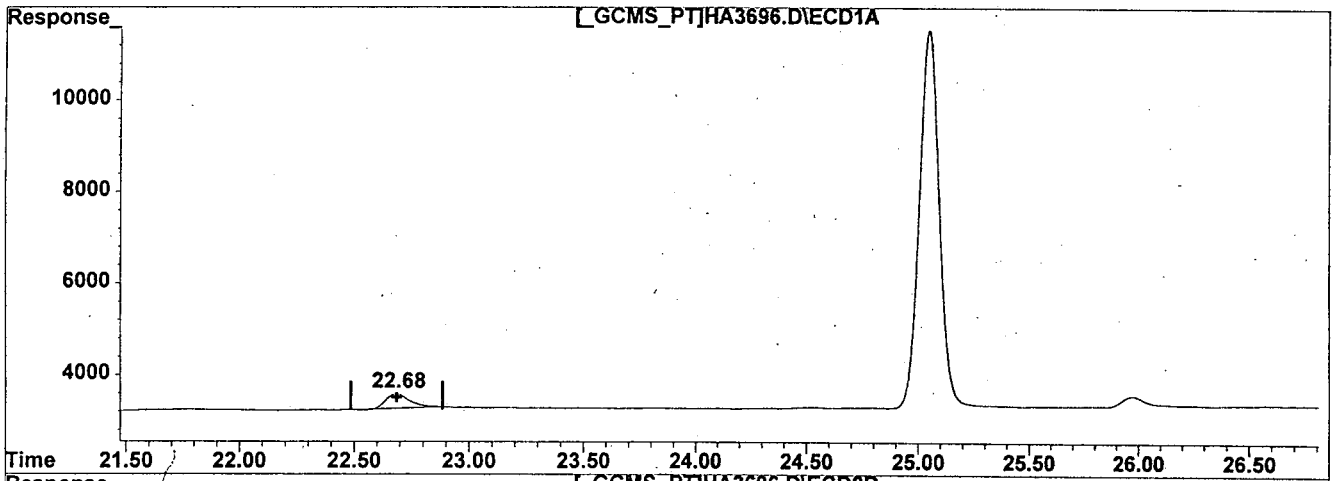
response 94590

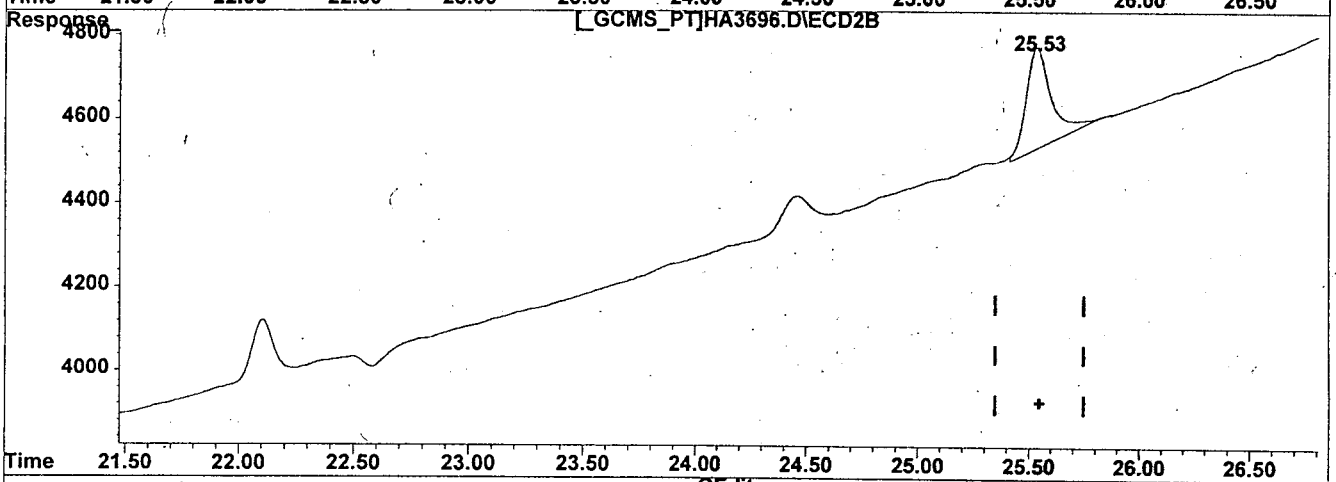
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3696.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA_H\HA3696.D\ECD2B.CH
Acq On : 8 Apr 98 13:33 Operator:
Sample : PEM11 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 9:26 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(12) 4,4'-DDE (B)

22.69min 2.046ng/ml

response 22430

(12) 4,4'-DDE #2 (B)

25.53min 1.809ng/ml m

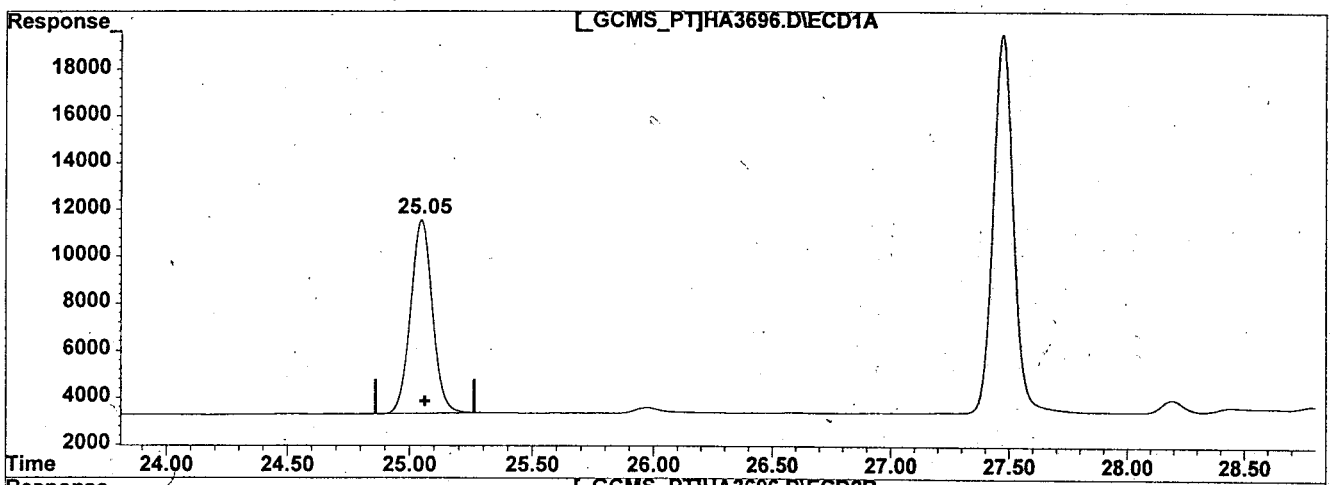
response 18726

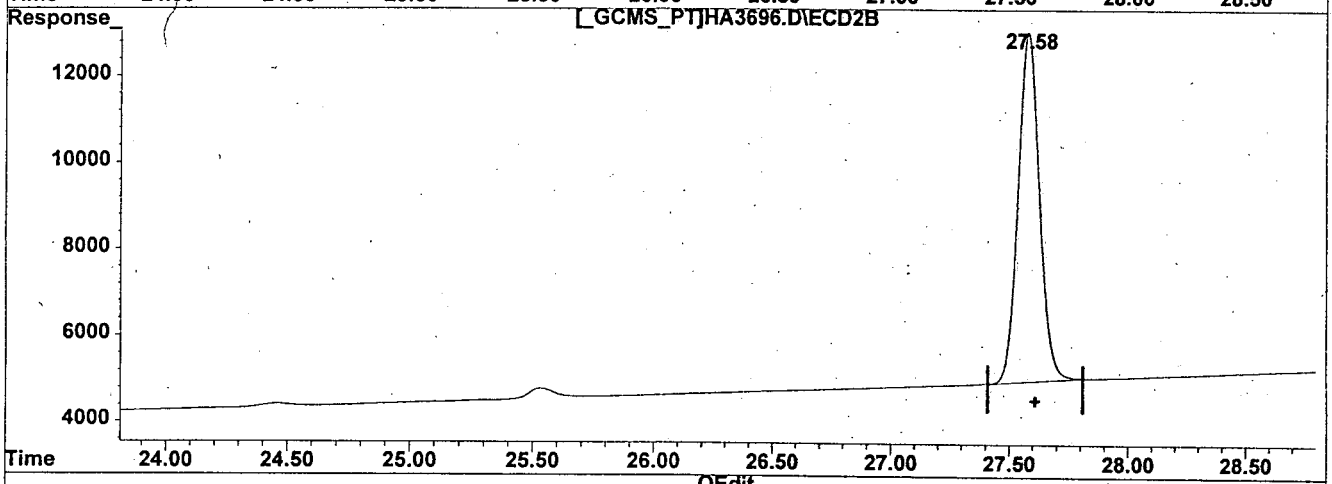
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3696.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA_H\HA3696.D\ECD2B.CH
Acq On : 8 Apr 98 13:33 Operator:
Sample : PEM11 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 9:26 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(14) Endrin (MA)

25.05min 37.766ng/ml

response 507804

(14) Endrin #2 (MA)

27.58min 37.976ng/ml m

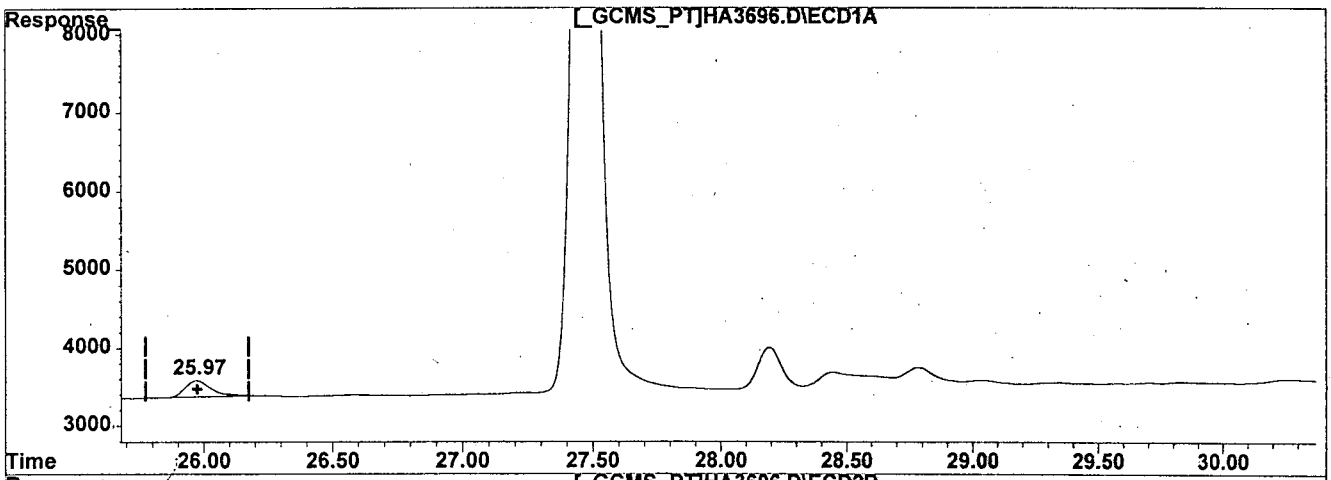
response 501975

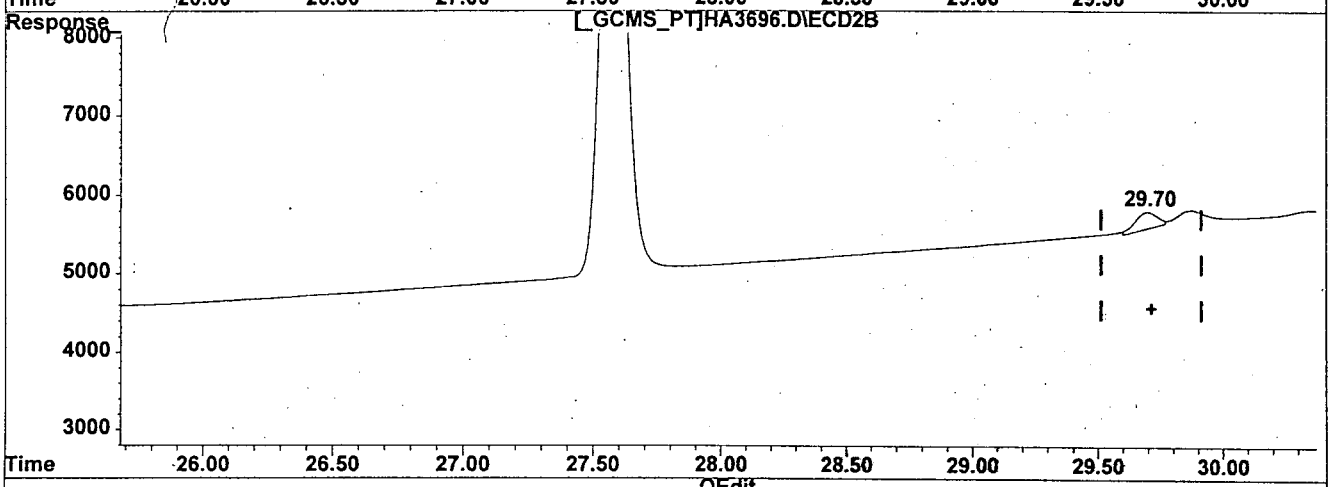
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3696.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA_H\HA3696.D\ECD2B.CH
Acq On : 8 Apr 98 13:33 Operator:
Sample : PEM11 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 9:26 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(16) 4,4'-DDD (A)

25.97min 1.773ng/ml

response 15021

(16) 4,4'-DDD #2 (A)

29.70min 1.483ng/ml m

response 13156

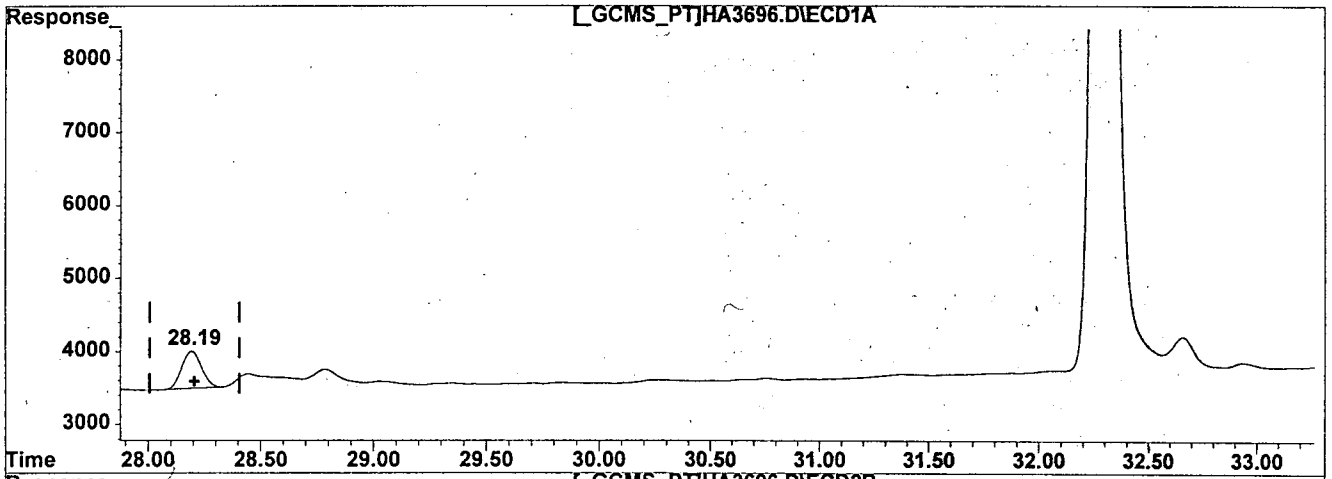
(+) = Expected Retention Time

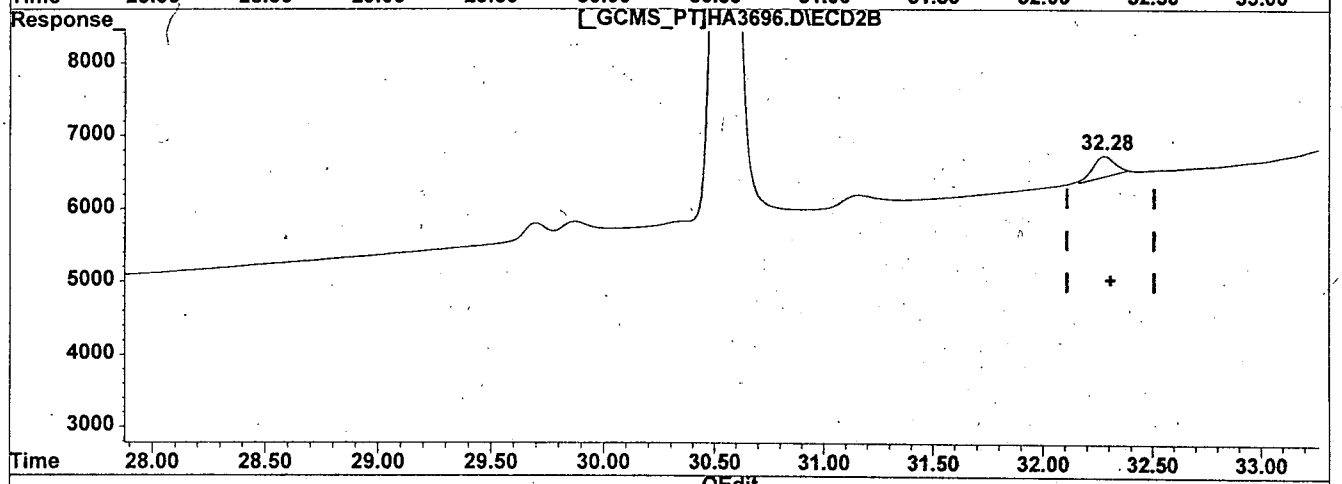
HA3696.D CLP_8.M Fri Apr 10 20:07:23 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3696.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA_H\HA3696.D\ECD2B.CH
Acq On : 8 Apr 98 13:33 Operator:
Sample : PEM11 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 9:26 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





(18) Endrin aldehyde (B)

28.19min 2.897ng/ml

response 31088

(18) Endrin aldehyde #2 (B)

32.28min 1.795ng/ml m

response 19337

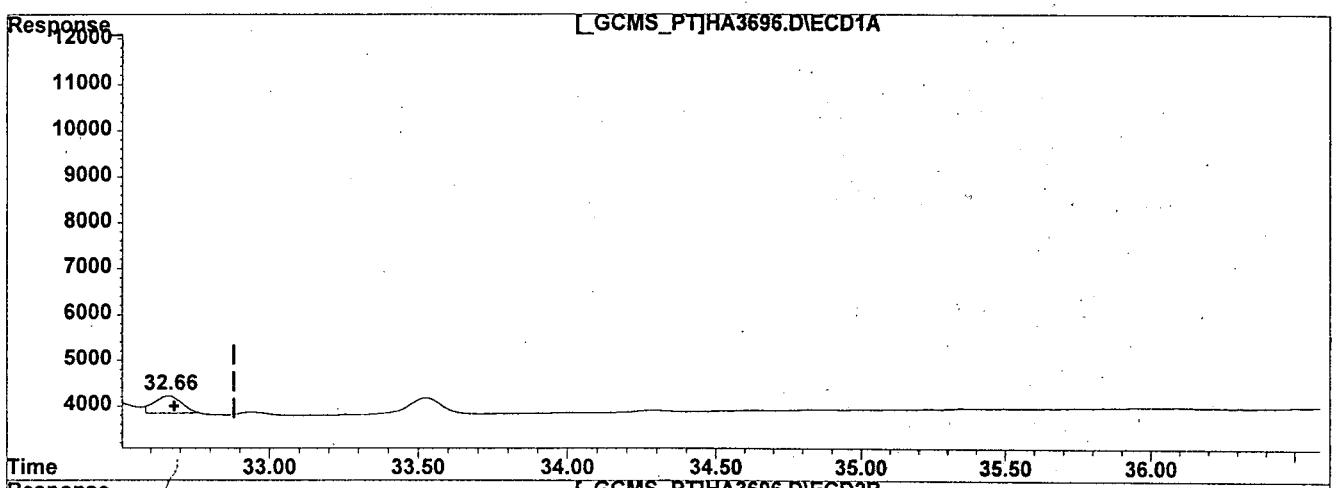
(+) = Expected Retention Time

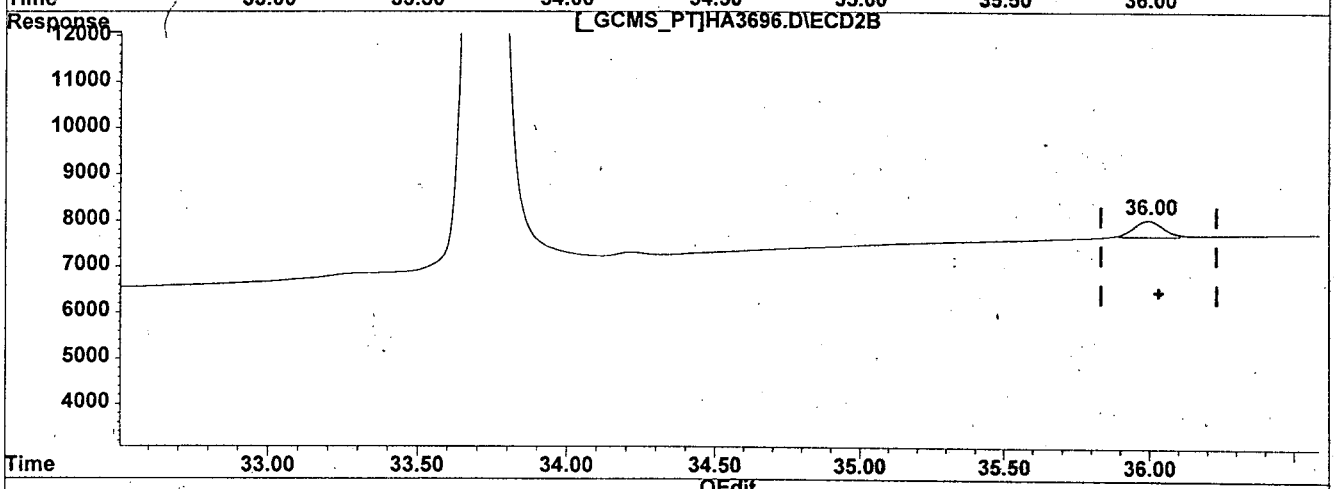
HA3696.D CLP_8.M Fri Apr 10 20:07:51 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3696.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA_H\HA3696.D\ECD2B.CH
Acq On : 8 Apr 98 13:33 Operator:
Sample : PEM11 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 9:26 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(21) Endrin ketone (B)

32.66min 2.191ng/ml m

response 23853

(21) Endrin ketone #2 (B)

36.00min 2.212ng/ml m

response 24330

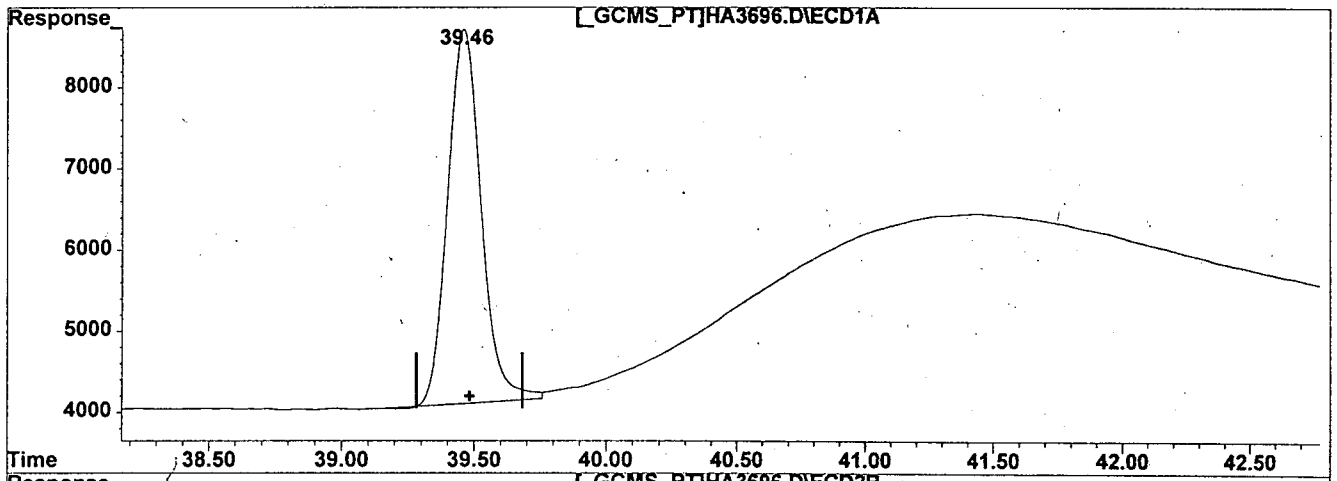
(+) = Expected Retention Time

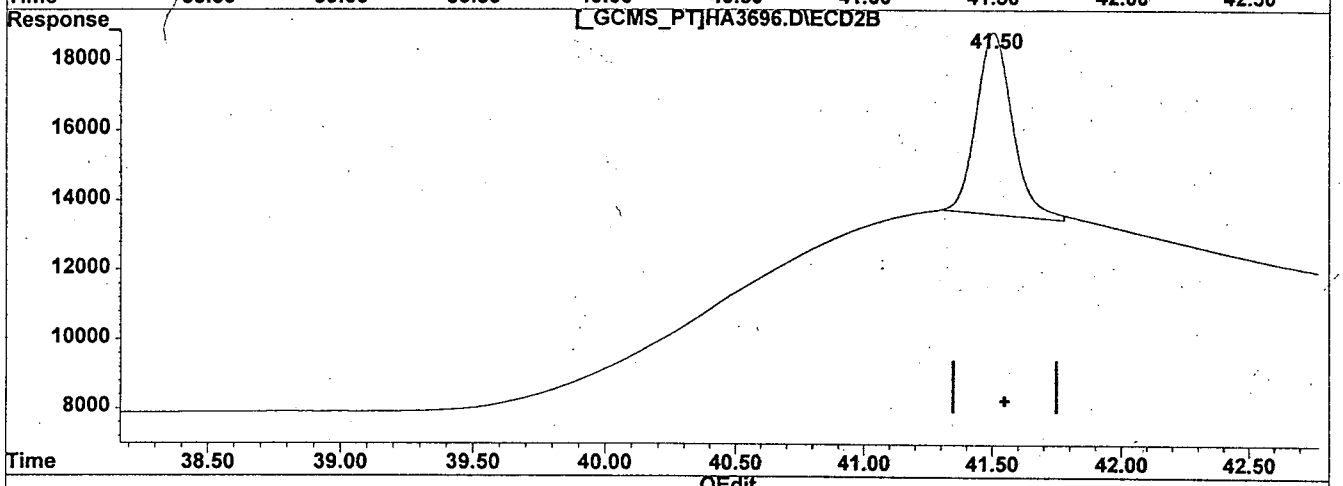
HA3696.D CLP_8.M Fri Apr 10 20:08:25 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3696.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA_H\HA3696.D\ECD2B.CH
Acq On : 8 Apr 98 13:33 Operator:
Sample : PEM11 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 9 9:26 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





(22) Decachlorobiphenyl (SA)

39.46min 18.220ng/ml

response 404705

(22) Decachlorobiphenyl #2 (SA)

41.50min 19.046ng/ml m

response 505731

(+) = Expected Retention Time

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3715.D\ECD1A.CH Vial: 33
Signal #2 : C:\HPCHEM\1\DATA_H\HA3715.D\ECD2B.CH
Acq On : 9 Apr 98 18:58 Operator:
Sample : PEM12 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 11 13:09 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.42	10.22	277044	264702	16.975	21.059
Spiked Amount 40.000 Range 60 - 150 Recovery =					42.44%#	52.65%#
22) SA Decachlorobiphen	39.47	41.51	433246	501805	19.505	18.898
Spiked Amount 40.000 Range 60 - 150 Recovery =					48.76%#	47.25%#
Target Compounds						
2) A alpha-BHC	11.07	14.35	136054	87580	10.551	7.622m#
3) MA gamma-BHC (Linda	13.01	16.46	103214	144501	7.762	12.172 #
4) B beta-BHC	14.23	20.56	95338	66738	12.063	10.445
12) B 4,4'-DDE	22.69	25.53	22745	17207	2.075	1.662m
14) MA Endrin	25.05	27.58	532738	511088	39.621	38.665m
16) A 4,4'-DDD	25.98	29.69	11637	8145	1.373	0.918m#
17) MA 4,4'-DDT	27.48	30.55	1008383	1045406	106.524	108.077
18) B Endrin aldehyde	28.20	32.27	30984	18098	2.887	1.680m#
21) A Methoxychlor	32.30	33.72	1331070	1833326	231.285	235.347
22) B Endrin ketone	32.66	35.99	30395	18112	2.792	1.647m#
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

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_H\HA3715.D\ECD1A.CH Vial: 33
Signal #2 : C:\HPCHEM\1\DATA_H\HA3715.D\ECD2B.CH
Acq On : 9 Apr 98 18:58 Operator:
Sample : PEM12 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 11 13:09 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: C:\HPCHEM\1\DATA_H\HA3582.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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

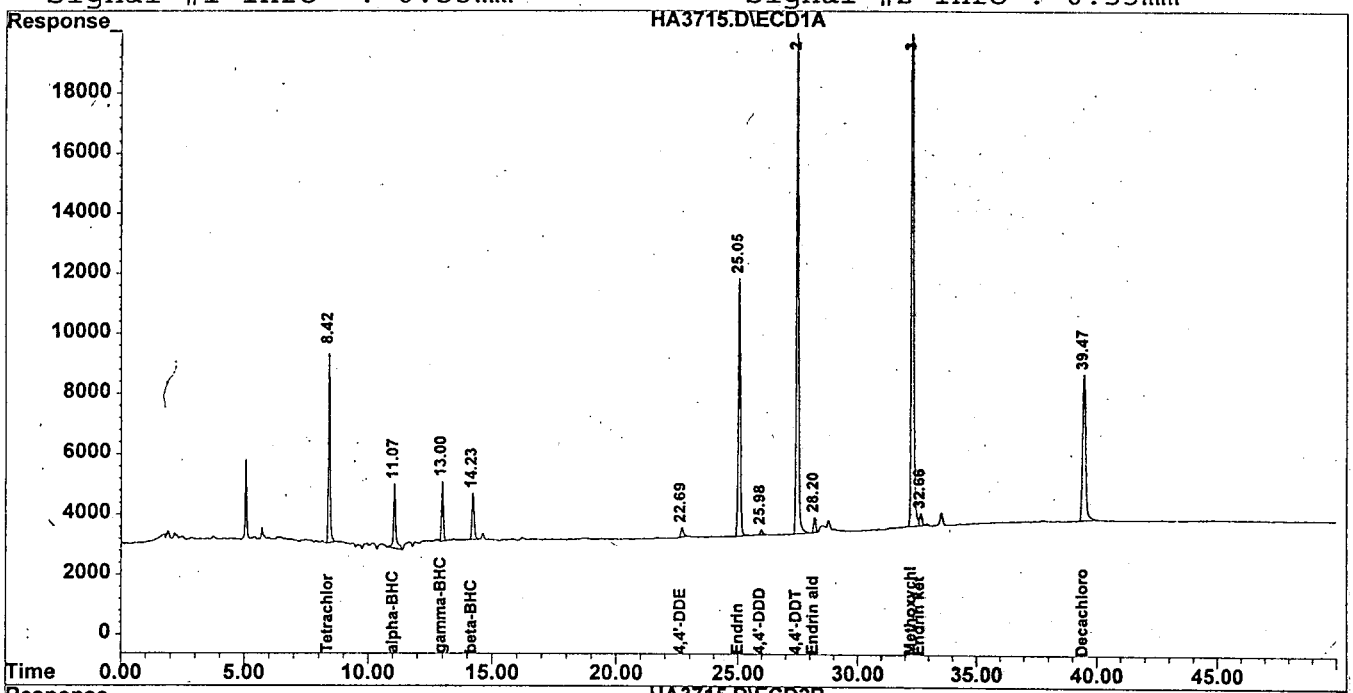
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

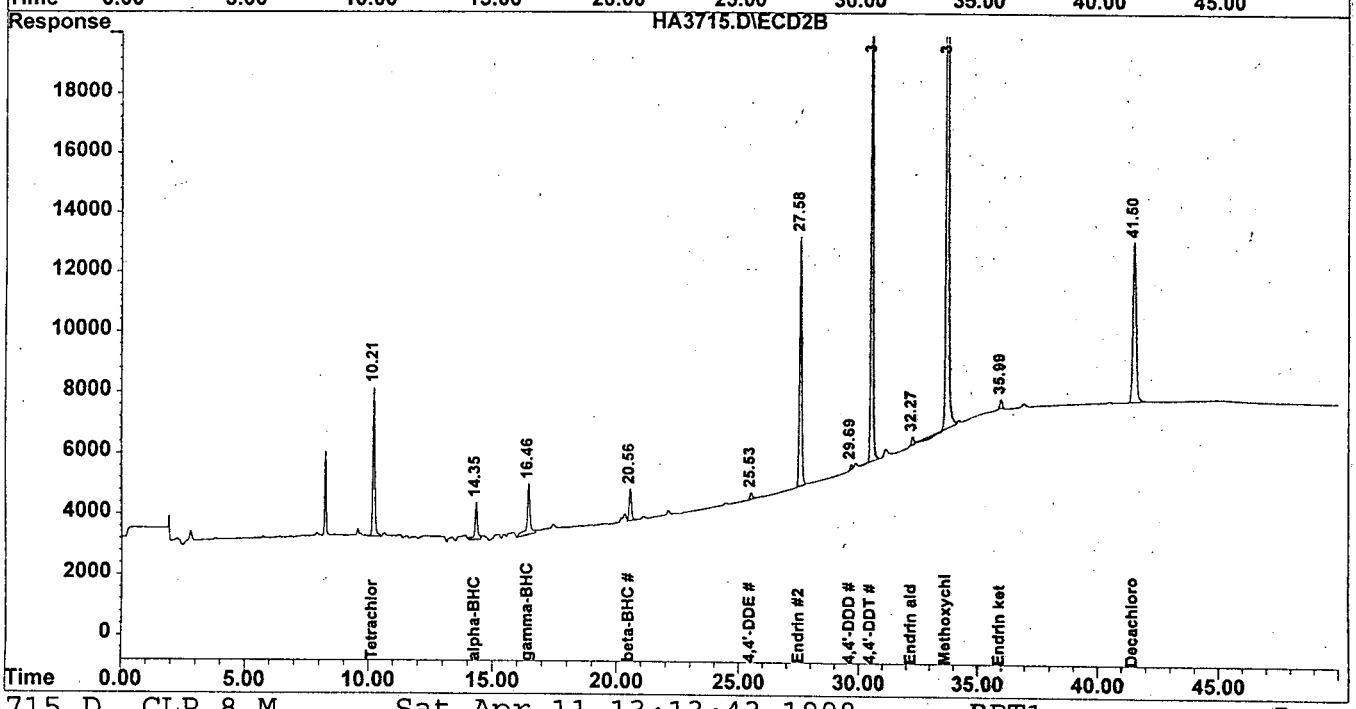
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3715.D\ECD1A.CH Vial: 33
Signal #2 : C:\HPCHEM\1\DATA_H\HA3715.D\ECD2B.CH
Acq On : 9 Apr 98 18:58 Operator:
Sample : PEM12 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 11 13:09 1998 Quant Results File: CLP_8.RES

Quant Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

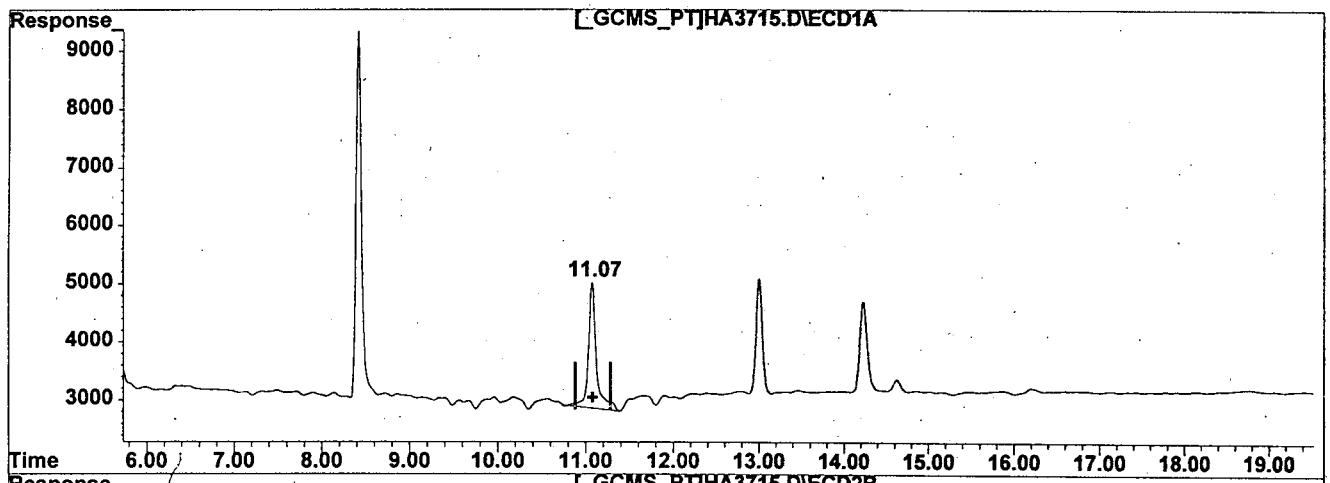


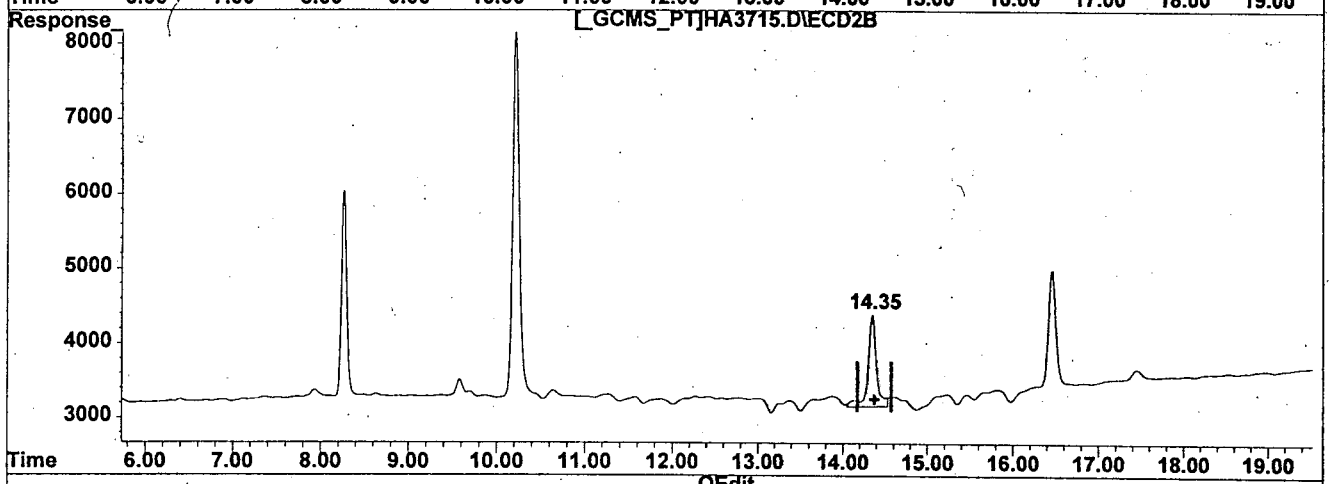


Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3715.D\ECD1A.CH Vial: 33
Signal #2 : C:\HPCHEM\1\DATA_H\HA3715.D\ECD2B.CH
Acq On : 9 Apr 98 18:58 Operator:
Sample : PEM12 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 11 13:09 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(2) alpha-BHC (A)

11.07min 10.551ng/ml

response 136054

(2) alpha-BHC #2 (A)

14.35min 7.622ng/ml m

response 87580

(+) = Expected Retention Time

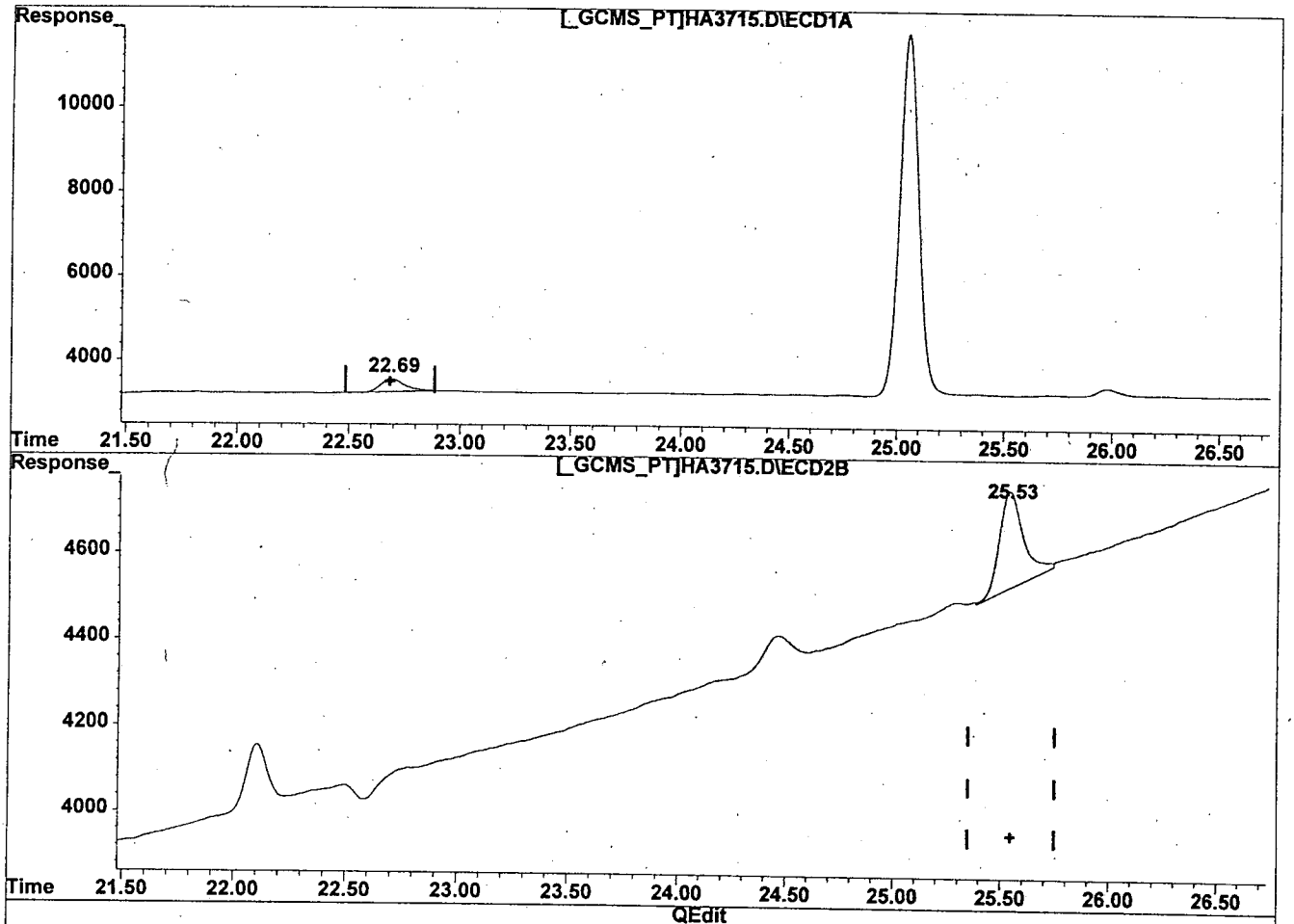
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3715.D\ECD1A.CH
Signal #2 : C:\HPCHEM\1\DATA_H\HA3715.D\ECD2B.CH
Acq On : 9 Apr 98 18:58
Sample : PEM12
Misc :
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 11 13:09 1998 Quant Results File: CLP_8.RES

Vial: 33

Operator:
Inst : GC_5890_8
Multiplr: 1.00

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration



(12) 4,4'-DDE (B)

22.69min 2.075ng/ml

response 22745

(12) 4,4'-DDE #2 (B)

25.53min 1.662ng/ml m

response 17207

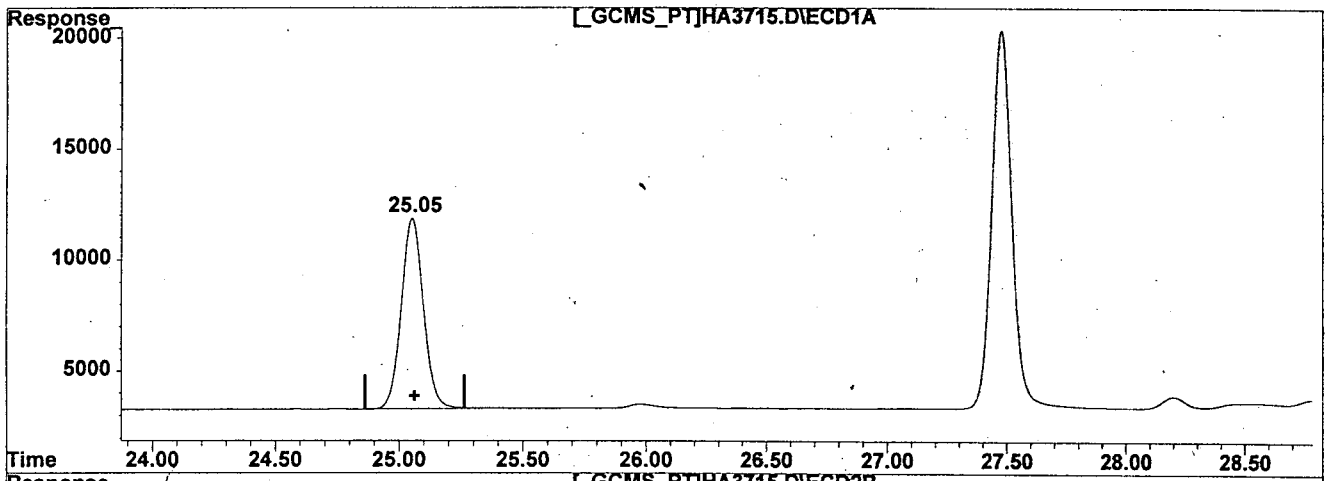
(+) = Expected Retention Time

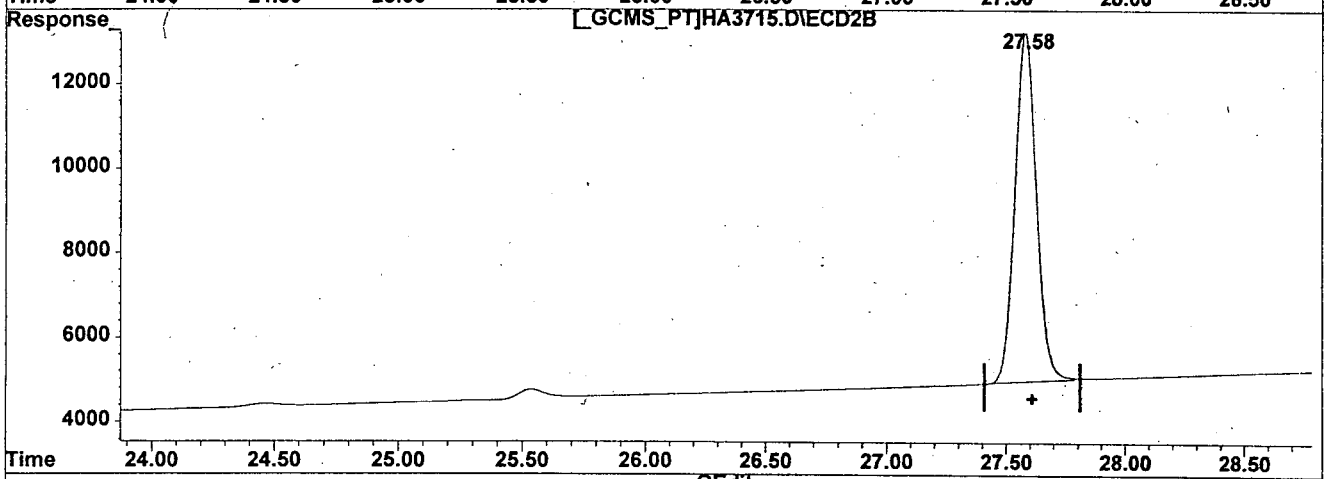
HA3715.D CLP_8.M Thu Apr 16 12:08:45 1998 RPT1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3715.D\ECD1A.CH Vial: 33
Signal #2 : C:\HPCHEM\1\DATA_H\HA3715.D\ECD2B.CH
Acq On : 9 Apr 98 18:58 Operator:
Sample : PEM12 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 11 13:09 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(14) Endrin (MA)

25.05min 39.621ng/ml

response 532738

(14) Endrin #2 (MA)

27.58min 38.665ng/ml m

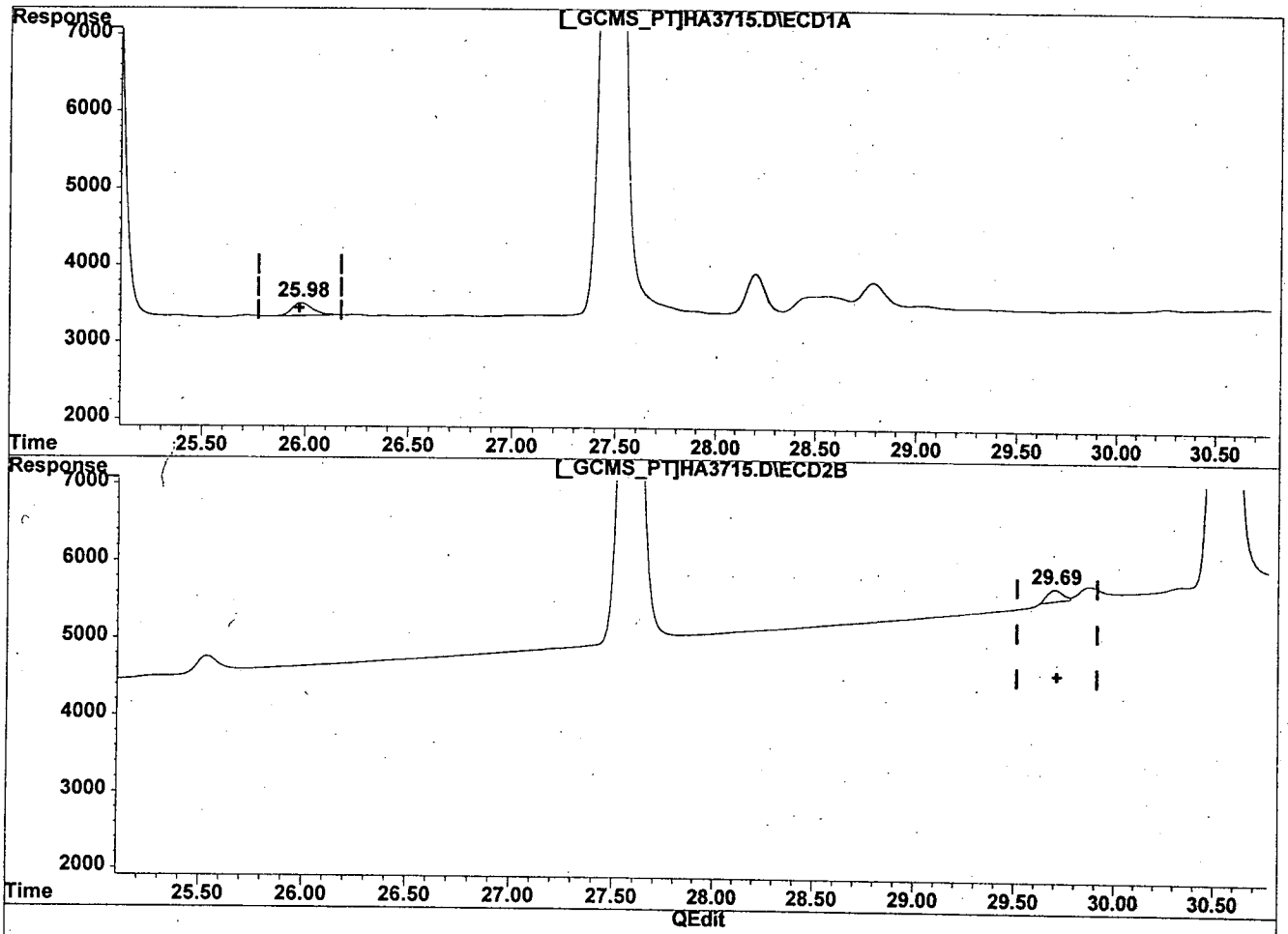
response 511088

(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3715.D\ECD1A.CH Vial: 33
Signal #2 : C:\HPCHEM\1\DATA_H\HA3715.D\ECD2B.CH
Acq On : 9 Apr 98 18:58 Operator:
Sample : PEM12 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 11 13:09 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration



(16) 4,4'-DDD (A)

25.98min 1.373ng/ml

response 11637

(16) 4,4'-DDD #2 (A)

29.69min 0.918ng/ml m

response 8145

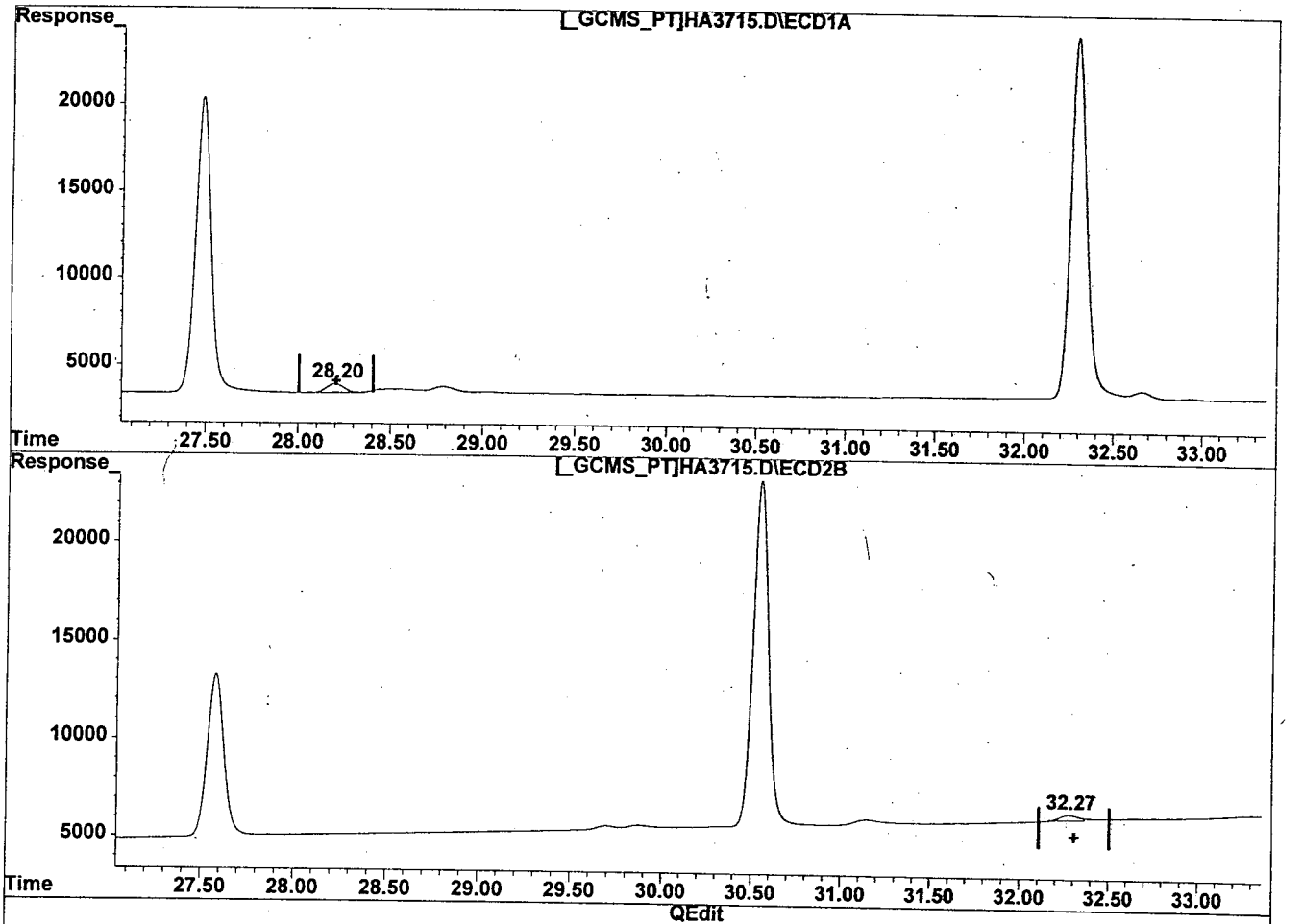
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3715.D\ECD1A.CH
Signal #2 : C:\HPCHEM\1\DATA_H\HA3715.D\ECD2B.CH
Acq On : 9 Apr 98 18:58
Sample : PEM12
Misc :
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 11 13:09 1998 Quant Results File: CLP_8.RES

Vial: 33
Operator:
Inst : GC_5890_8
Multiplr: 1.00

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration



(18) Endrin aldehyde (B)

28.20min 2.887ng/ml

response 30984

(18) Endrin aldehyde #2 (B)

32.27min 1.680ng/ml m

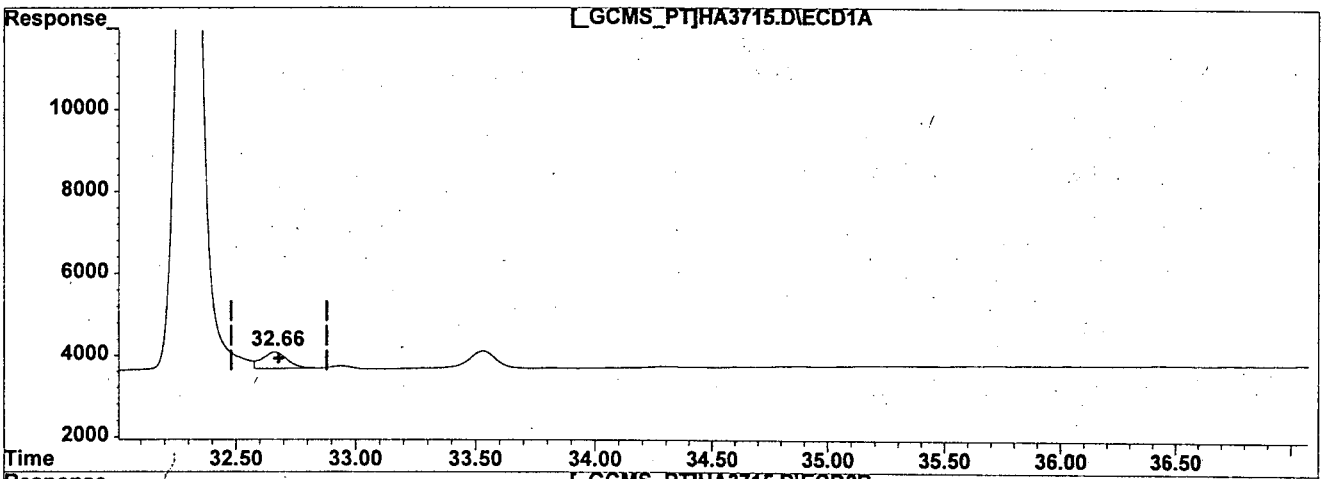
response 18098

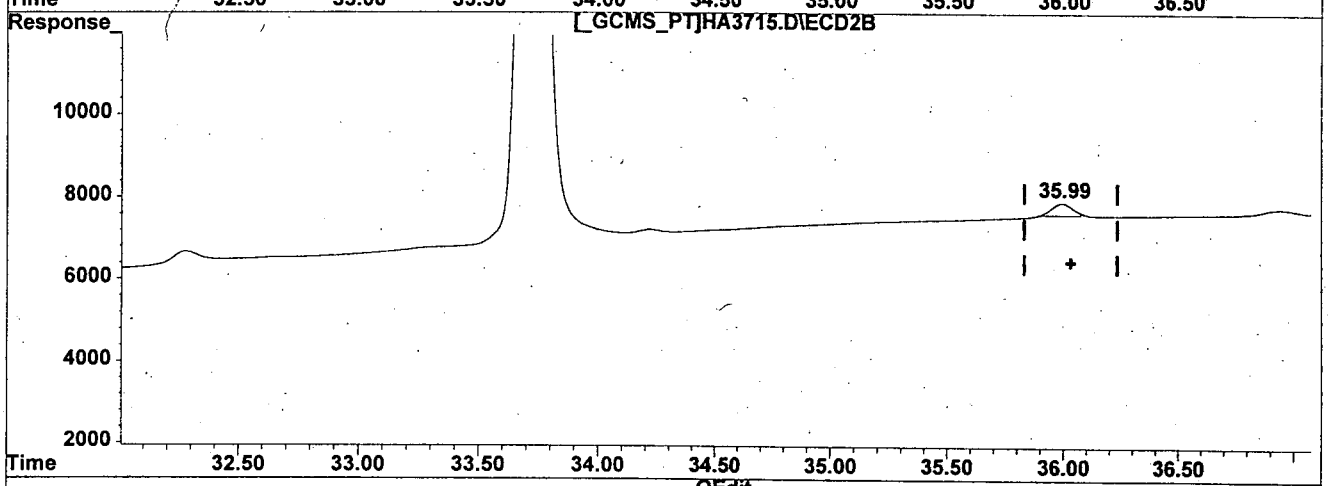
(+) = Expected Retention Time

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_H\HA3715.D\ECD1A.CH Vial: 33
Signal #2 : C:\HPCHEM\1\DATA_H\HA3715.D\ECD2B.CH
Acq On : 9 Apr 98 18:58 Operator:
Sample : PEM12 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Apr 11 13:09 1998 Quant Results File: CLP_8.RES

Method : F:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(21) Endrin ketone (B)

32.66min 2.792ng/ml

response 30395

(21) Endrin ketone #2 (B)

35.99min 1.647ng/ml m

response 18112

(+) = Expected Retention Time

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : F:\1\DATA_H\HA3580.D\ECD1A.CH Vial: 10
Signal #2 : F:\1\DATA_H\HA3580.D\ECD2B.CH
Acq On : 25 Mar 98 6:58 Operator:
Sample : INDAL01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 12:41 1998 Quant Results File: CLP_8.RES

Quant Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: F:\1\DATA_H\HA3573.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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	8.43	10.23	60868	56000	4.239m	4.168	1.0 INS 0.005
Spiked Amount 40.000 Range 60 - 150 Recovery =					10.60%#	10.42%#	
2) SA Decachlorobiphen	39.49	41.56	215018	249988	11.135	9.500	0.01
Spiked Amount 40.000 Range 60 - 150 Recovery =					27.84%#	23.75%#	
Target Compounds							
2) A alpha-BHC	11.08	14.38	58951	55538	5.340m	5.409m	0.005
3) MA gamma-BHC (Linda	13.02	16.49	63956	55472	5.606m	5.039m	
4) MA Heptachlor	14.38	17.67	59919	99156	5.187	5.064	
9) A Endosulfan I	21.35	24.57	72888	71504	5.361	4.964m	
13) MA Dieldrin	23.21	26.47	122640	122458	9.439	8.681m	0.01
14) MA Endrin	25.07	27.62	120348	115583	10.503	9.548m	
16) A 4,4'-DDD	25.99	29.72	72995	82484	9.664	9.505m	
17) MA 4,4'-DDT	27.49	30.58	81952	89212	8.977m	8.893m	
20) A Methoxychlor	32.32	33.76	247262	317444	39.904	35.407m	0.05
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	

3/25/98

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : F:\1\DATA_H\HA3580.D\ECD1A.CH Vial: 10
Signal #2 : F:\1\DATA_H\HA3580.D\ECD2B.CH
Acq On : 25 Mar 98 6:58 Operator:
Sample : INDAL01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 12:41 1998 Quant Results File: CLP_8.RES

Quant Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Continuing Cal File: F:\1\DATA_H\HA3573.D
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
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

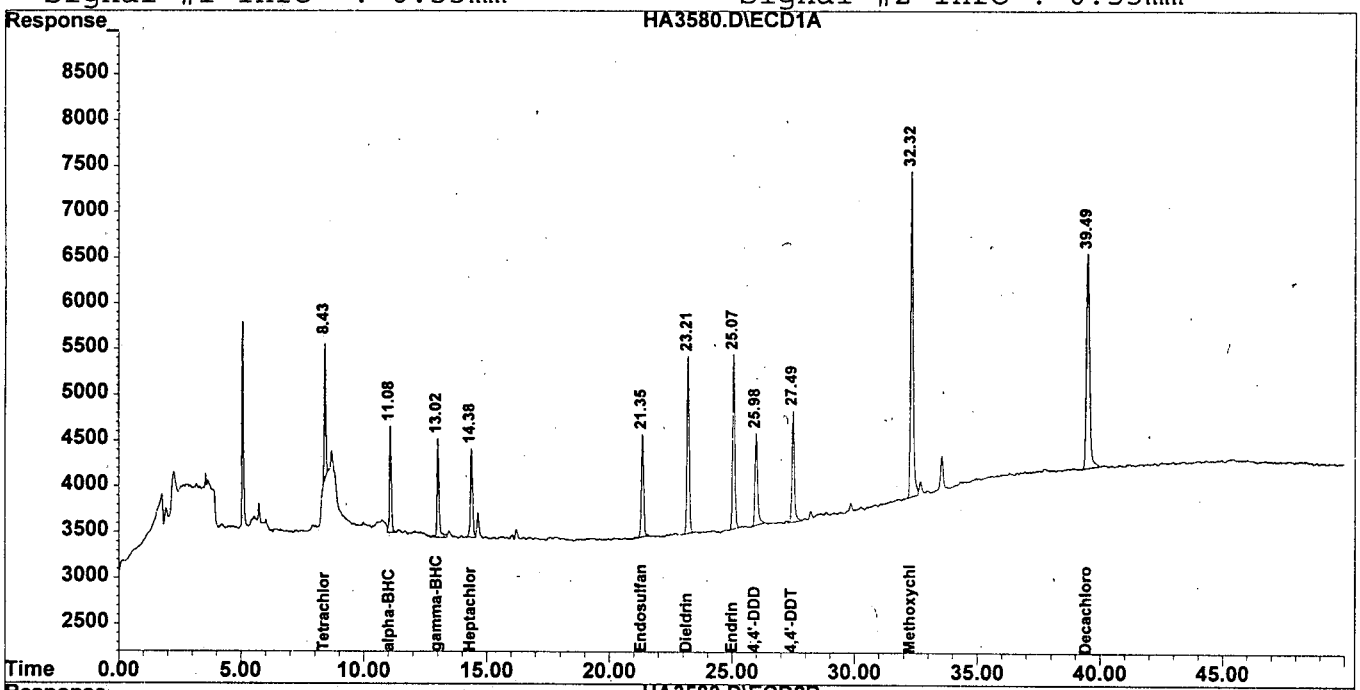
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

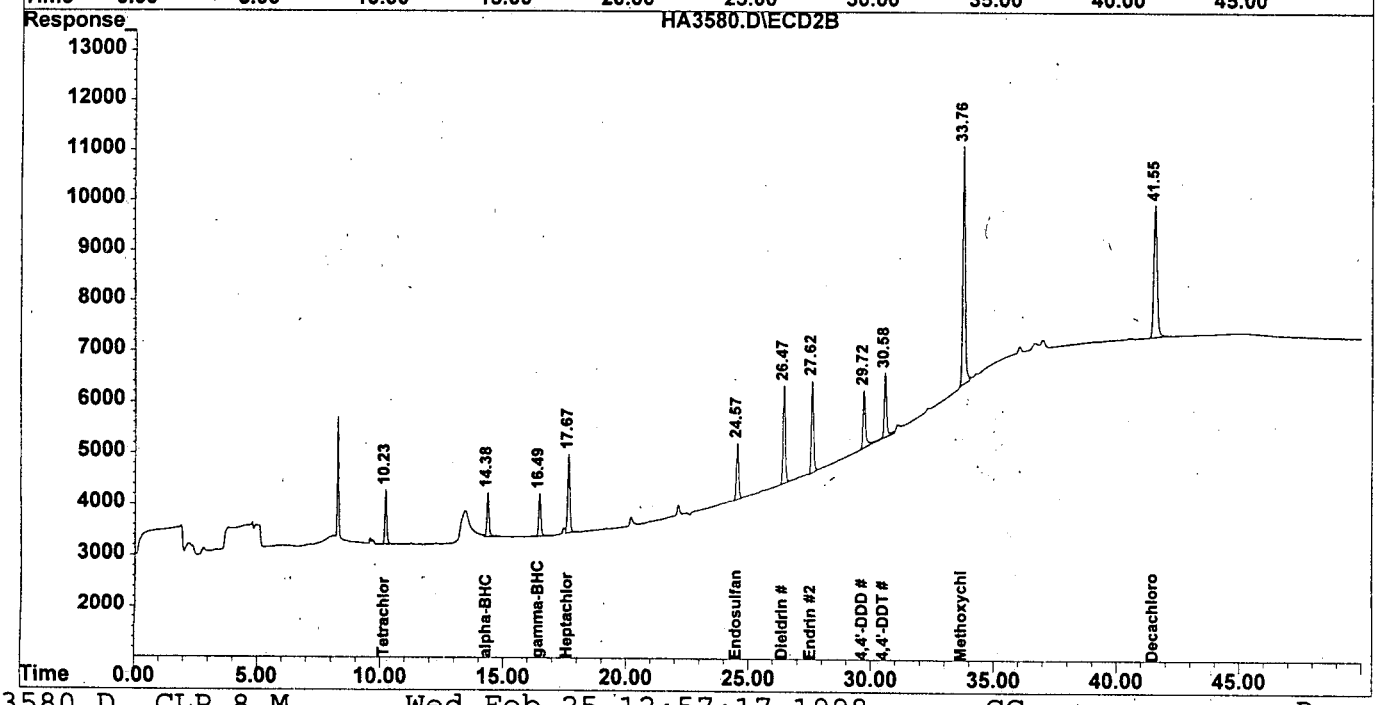
Quantitation Report

Signal #1 : F:\1\DATA_H\HA3580.D\ECD1A.CH Vial: 10
Signal #2 : F:\1\DATA_H\HA3580.D\ECD2B.CH
Acq On : 25 Mar 98 6:58 Operator:
Sample : INDAL01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 12:41 1998 Quant Results File: CLP_8.RES

Quant Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration
DataAcq Meth : CLP_8.M

Volume Inj. : 1
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 0.53mm Signal #2 Info : 0.53mm

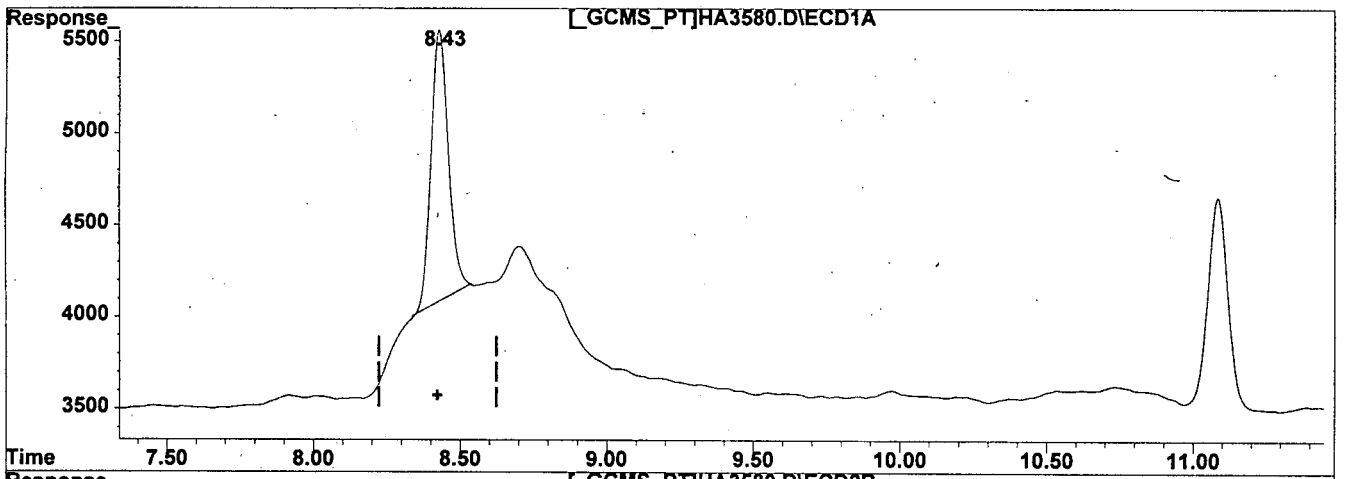


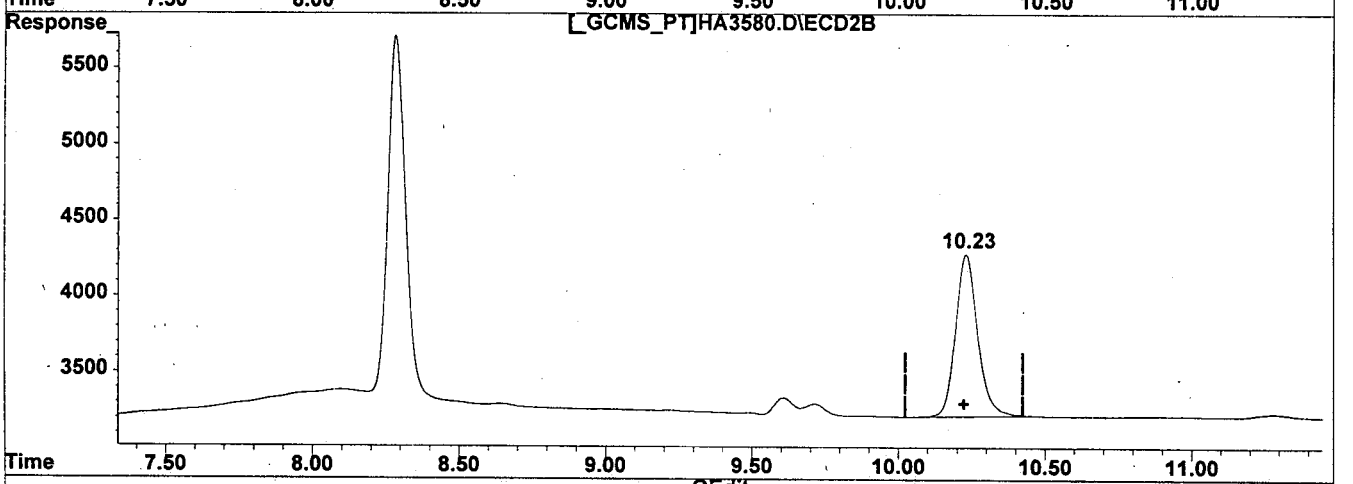


Quantitation Report

Signal #1 : F:\1\DATA_H\HA3580.D\ECD1A.CH Vial: 10
Signal #2 : F:\1\DATA_H\HA3580.D\ECD2B.CH
Acq On : 25 Mar 98 6:58 Operator:
Sample : INDAL01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 12:41 1998 Quant Results File: CLP_8.RES

Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(1) Tetrachloro-m-xylene (SA)

8.43min 4.239ng/ml m

response 60868

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

10.23min 4.168ng/ml

response 56000

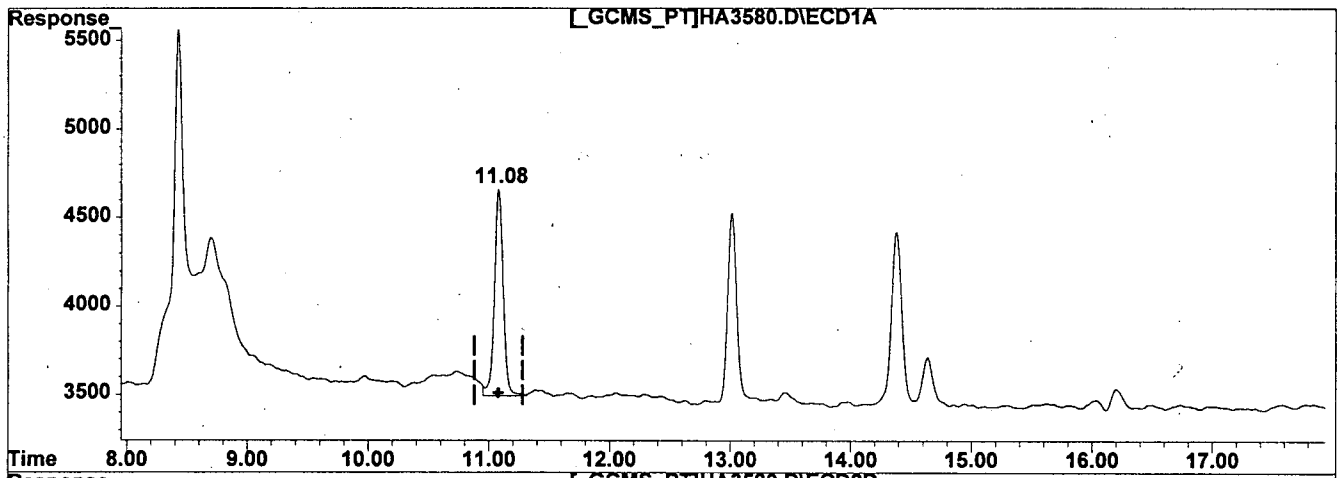
(+) = Expected Retention Time

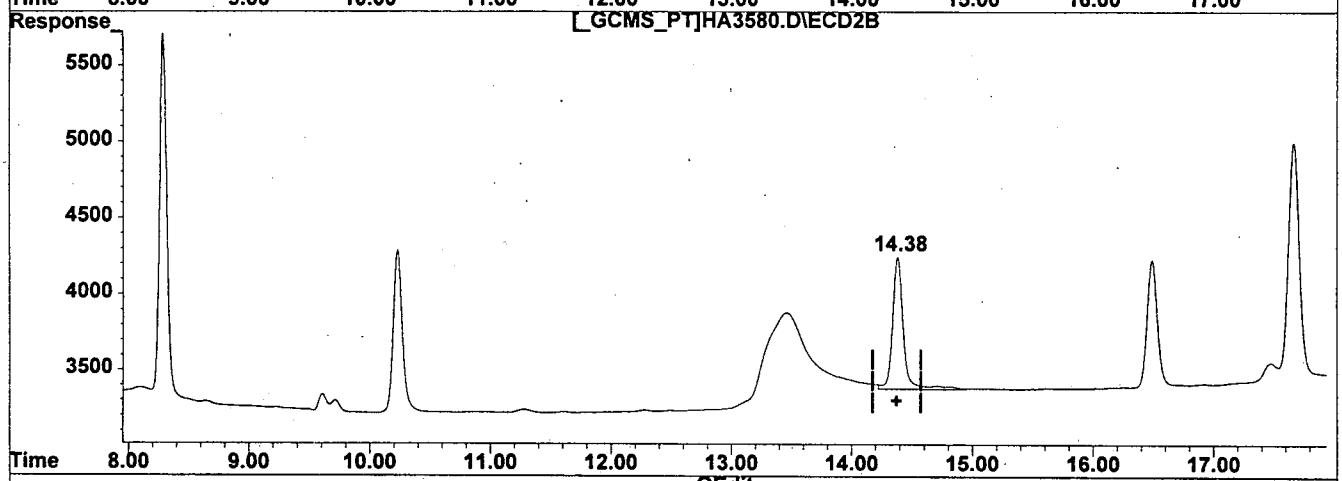
HA3580.D CLP_8.M Wed Feb 25 13:03:02 1998 GC

Quantitation Report

Signal #1 : F:\1\DATA_H\HA3580.D\ECD1A.CH Vial: 10
Signal #2 : F:\1\DATA_H\HA3580.D\ECD2B.CH
Acq On : 25 Mar 98 6:58 Operator:
Sample : INDAL01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 12:01 1998 Quant Results File: CLP_8.RES

Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(2) alpha-BHC (A)

11.08min 5.340ng/ml m

response 58951

(2) alpha-BHC #2 (A)

14.38min 5.409ng/ml m

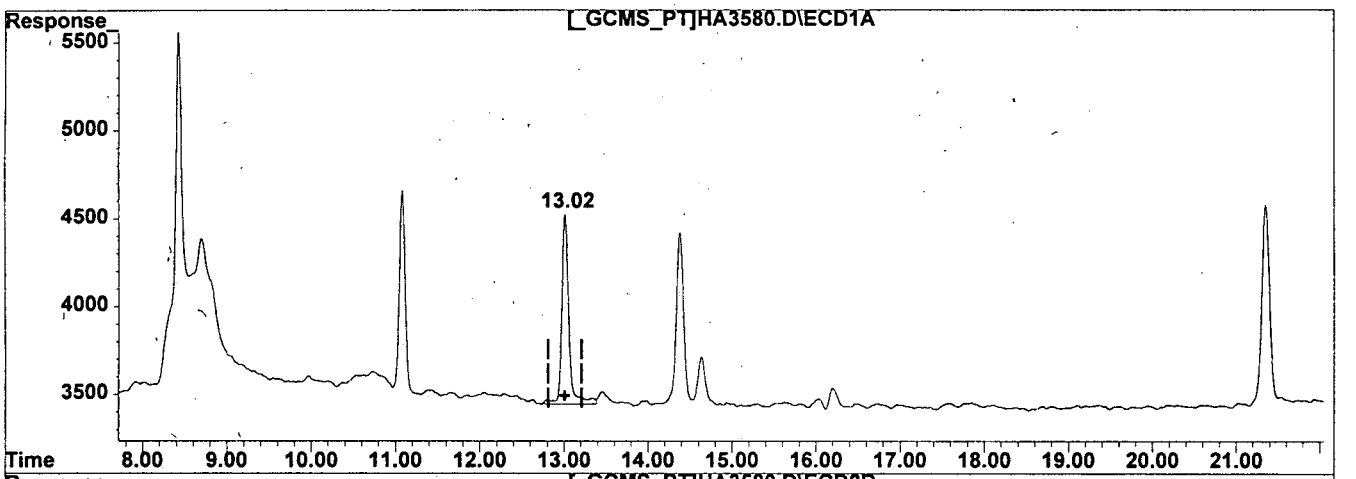
response 55538

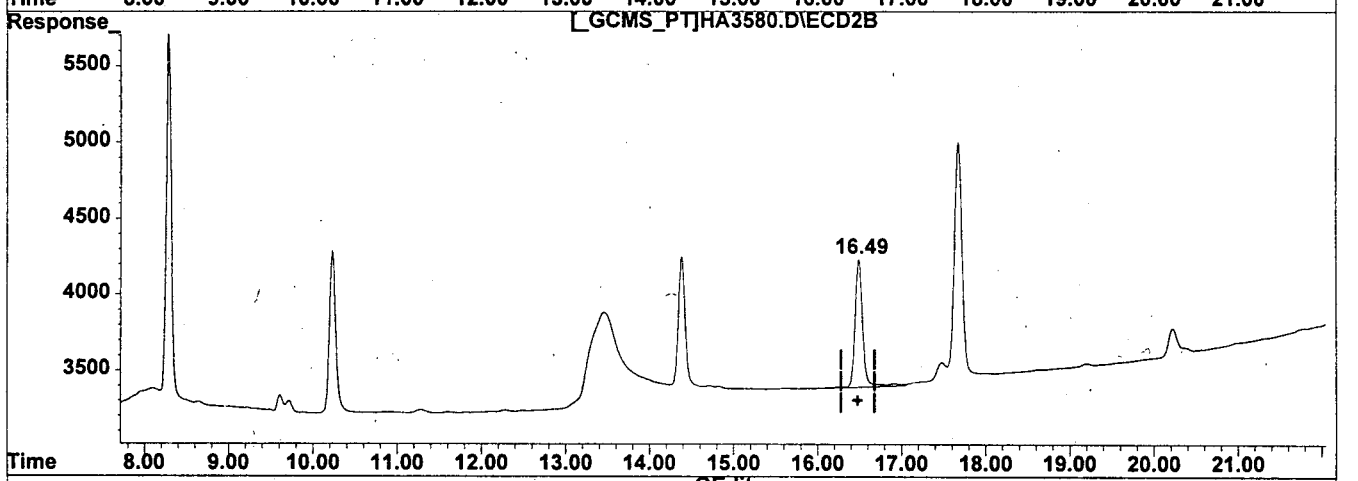
(+) = Expected Retention Time

Quantitation Report

Signal #1 : F:\1\DATA_H\HA3580.D\ECD1A.CH Vial: 10
Signal #2 : F:\1\DATA_H\HA3580.D\ECD2B.CH
Acq On : 25 Mar 98 6:58 Operator:
Sample : INDAL01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 12:41 1998 Quant Results File: CLP_8.RES

Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(3) gamma-BHC (Lindane) (MA)

13.02min 5.606ng/ml m

response 63956

(3) gamma-BHC (Lindane) #2 (MA)

16.49min 5.039ng/ml m

response 55472

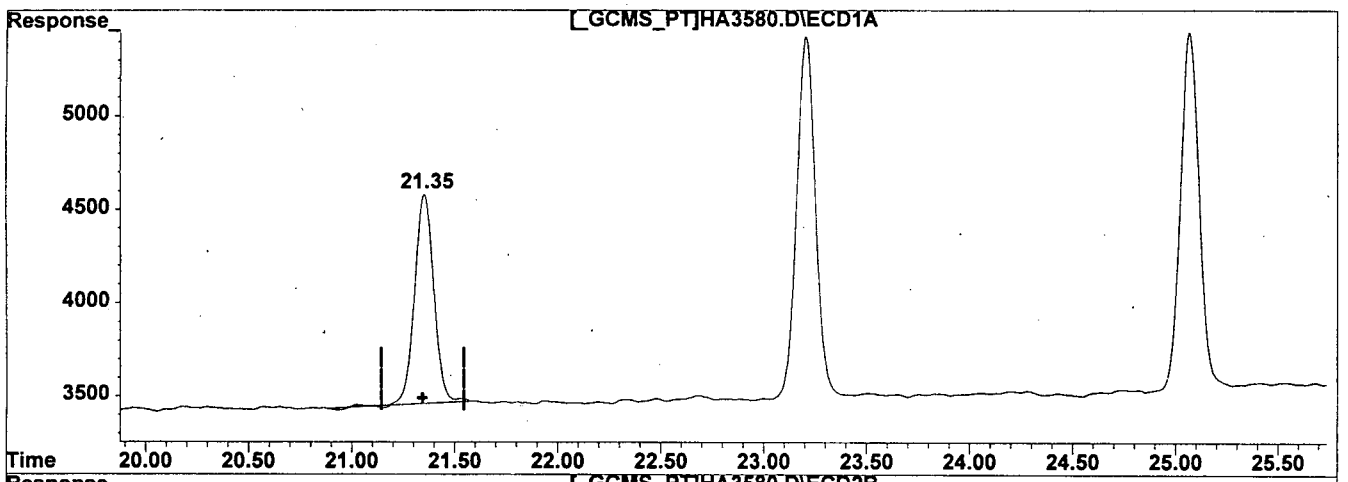
(+) = Expected Retention Time

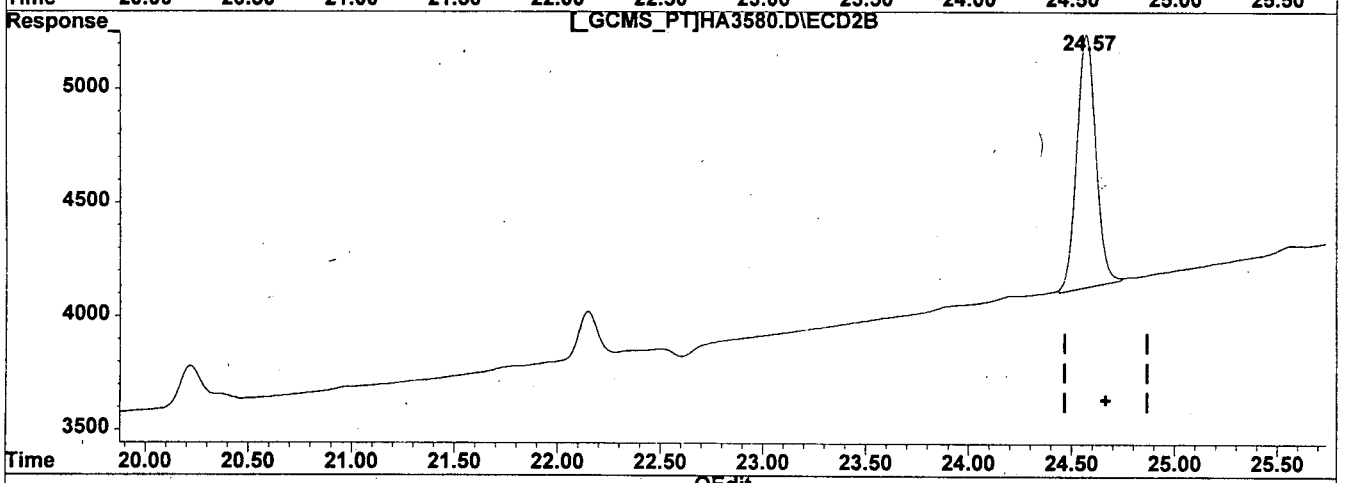
HA3580.D CLP_8.M Wed Feb 25 13:03:55 1998 GC

Quantitation Report

Signal #1 : F:\1\DATA_H\HA3580.D\ECD1A.CH Vial: 10
Signal #2 : F:\1\DATA_H\HA3580.D\ECD2B.CH
Acq On : 25 Mar 98 6:58 Operator:
Sample : INDAL01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 12:41 1998 Quant Results File: CLP_8.RES

Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(9) Endosulfan I (A)

21.35min 5.361ng/ml

response 72888

(9) Endosulfan I #2 (A)

24.57min 4.964ng/ml m

response 71504

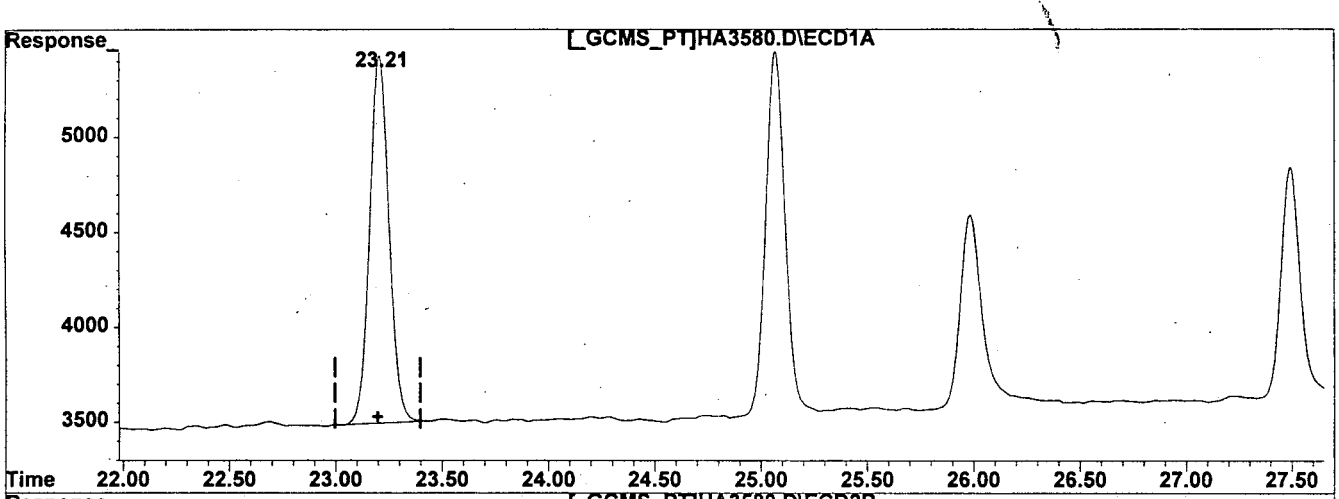
(+) = Expected Retention Time

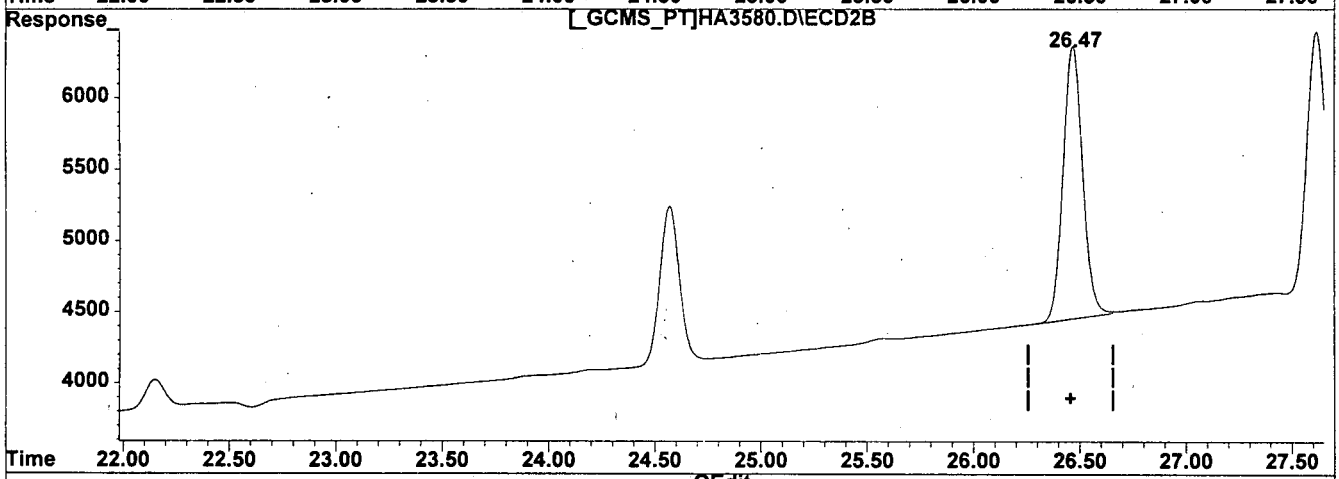
HA3580.D CLP_8.M Wed Feb 25 13:04:16 1998 GC

Quantitation Report

Signal #1 : F:\1\DATA_H\HA3580.D\ECD1A.CH Vial: 10
Signal #2 : F:\1\DATA_H\HA3580.D\ECD2B.CH
Acq On : 25 Mar 98 6:58 Operator:
Sample : INDAL01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 12:41 1998 Quant Results File: CLP_8.RES

Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(13) Dieldrin (MA)

23.21min 9.439ng/ml

response 122640

(13) Dieldrin #2 (MA)

26.47min 8.681ng/ml m

response 122458

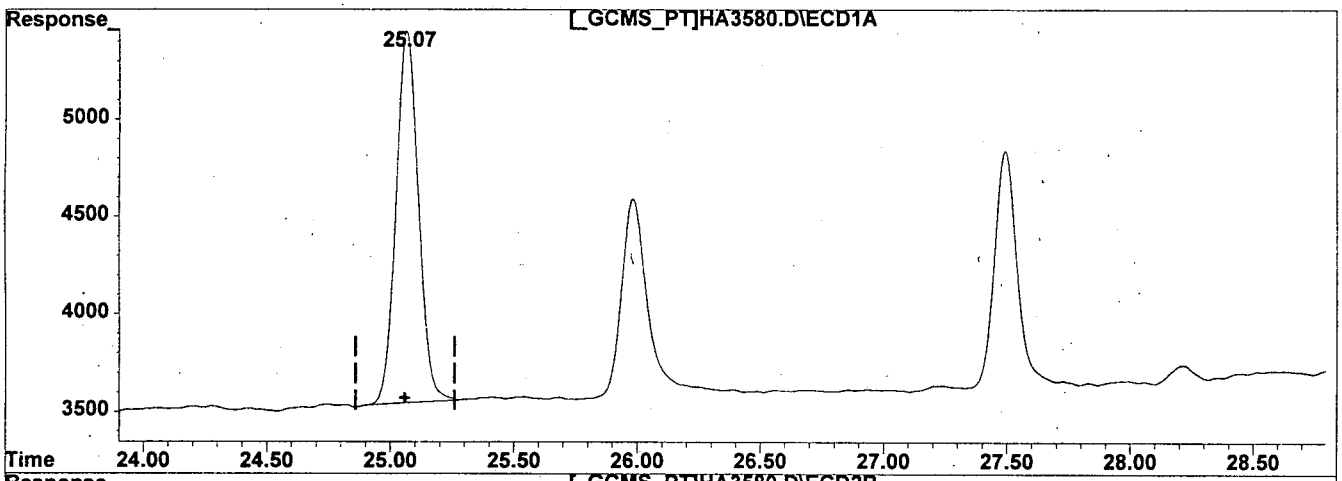
(+) = Expected Retention Time

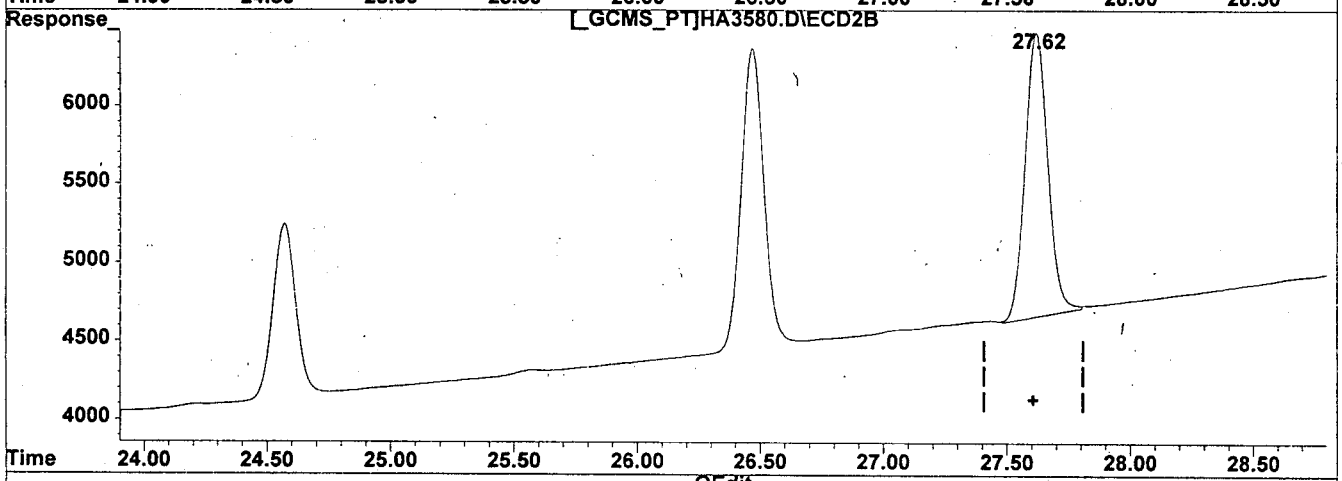
HA3580.D CLP_8.M Wed Feb 25 13:04:25 1998 GC

Quantitation Report

Signal #1 : F:\1\DATA_H\HA3580.D\ECD1A.CH Vial: 10
Signal #2 : F:\1\DATA_H\HA3580.D\ECD2B.CH
Acq On : 25 Mar 98 6:58 Operator:
Sample : INDAL01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 12:41 1998 Quant Results File: CLP_8.RES

Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(14) Endrin (MA)

25.07min 10.503ng/ml

response 120348

(14) Endrin #2 (MA)

27.62min 9.548ng/ml m

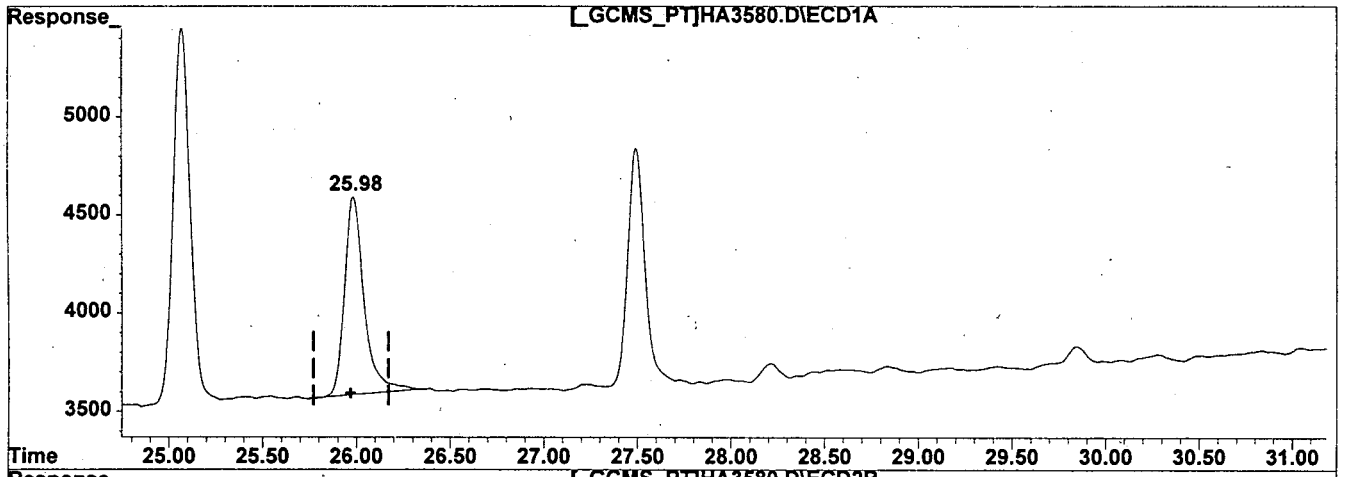
response 115583

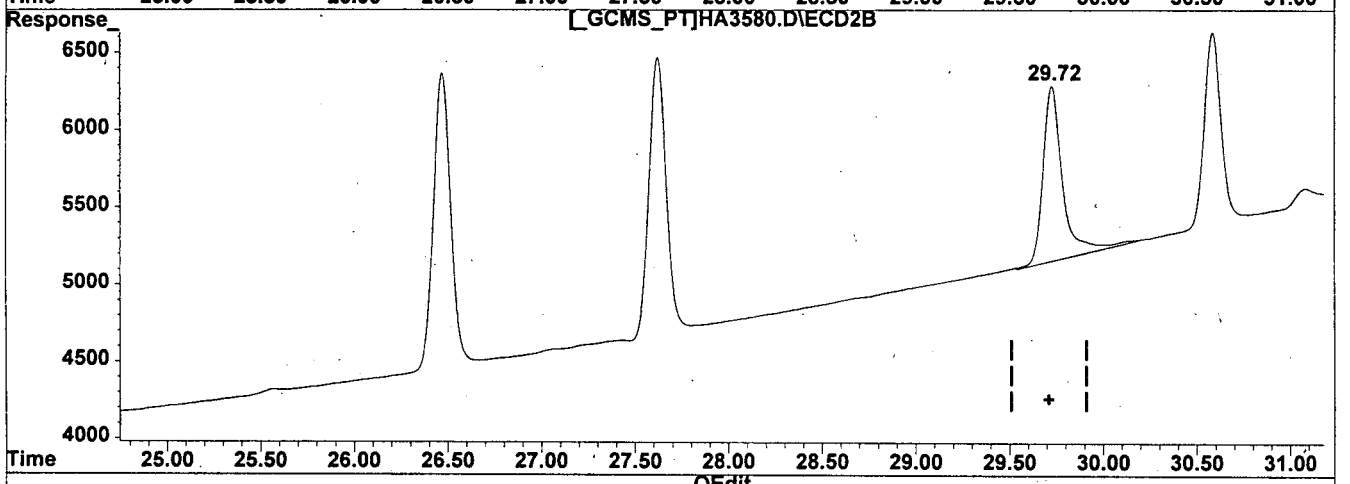
(+) = Expected Retention Time

Quantitation Report

Signal #1 : F:\1\DATA_H\HA3580.D\ECD1A.CH Vial: 10
Signal #2 : F:\1\DATA_H\HA3580.D\ECD2B.CH
Acq On : 25 Mar 98 6:58 Operator:
Sample : INDAL01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 12:41 1998 Quant Results File: CLP_8.RES

Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(16) 4,4'-DDD (A)

25.99min 9.664ng/ml

response 72995

(16) 4,4'-DDD #2 (A)

29.72min 9.505ng/ml m

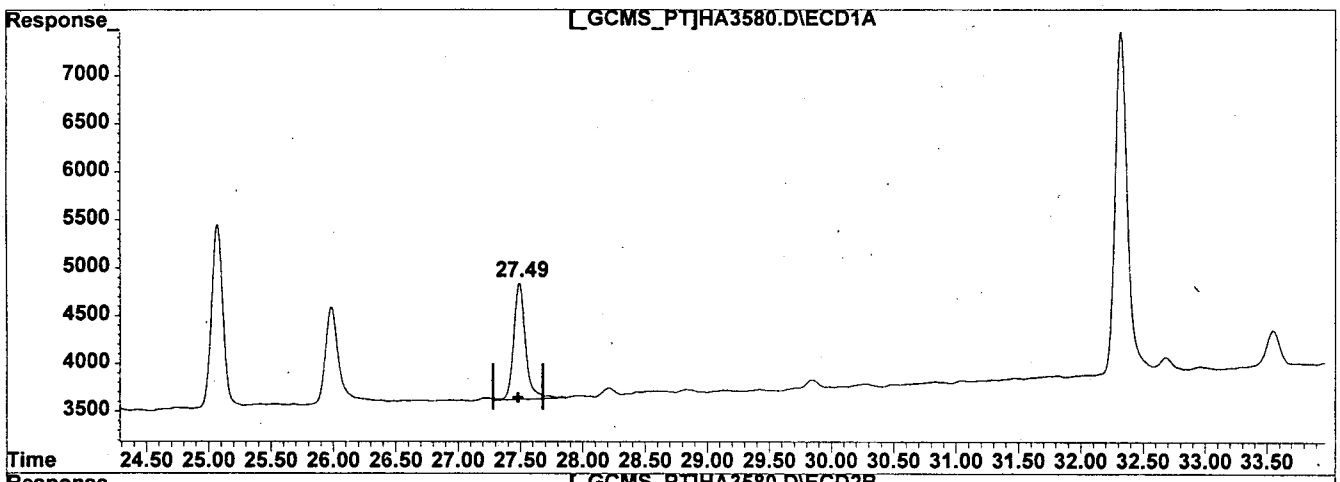
response 82484

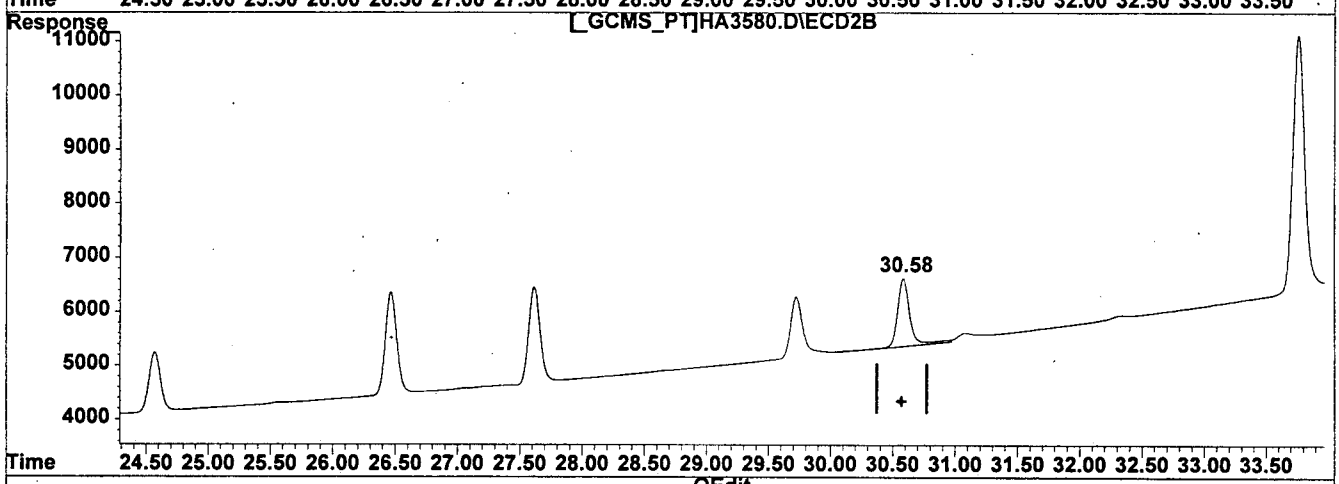
(+) = Expected Retention Time

Quantitation Report

Signal #1 : F:\1\DATA_H\HA3580.D\ECD1A.CH Vial: 10
Signal #2 : F:\1\DATA_H\HA3580.D\ECD2B.CH
Acq On : 25 Mar 98 6:58 Operator:
Sample : INDAL01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 12:01 1998 Quant Results File: CLP_8.RES

Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(17) 4,4'-DDT (MA)

27.49min 8.977ng/ml m

response 81952

(17) 4,4'-DDT #2 (MA)

30.58min 8.893ng/ml m

response 89212

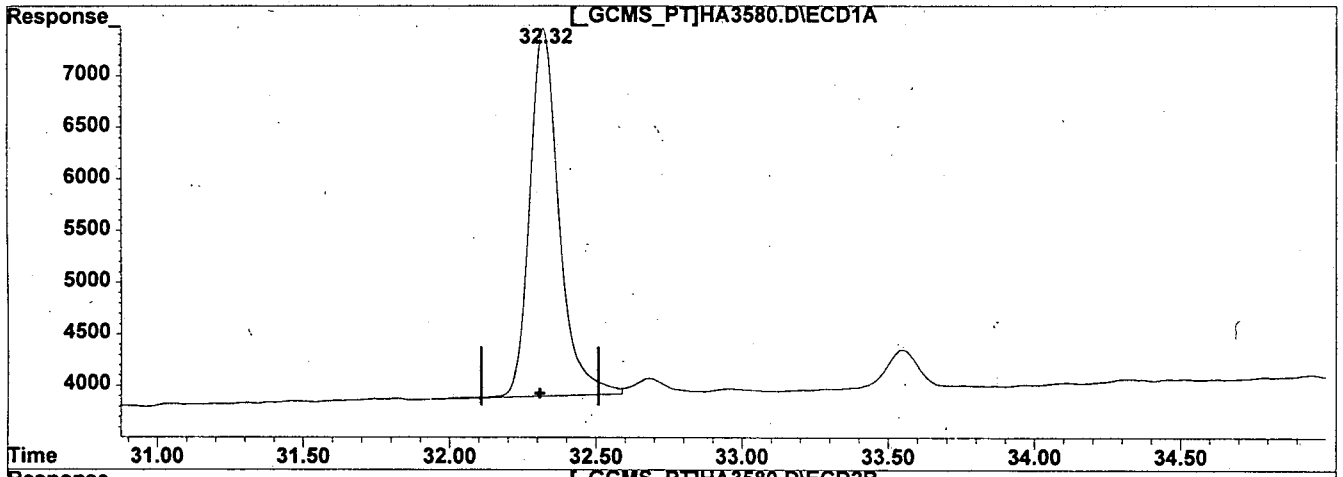
(+) = Expected Retention Time

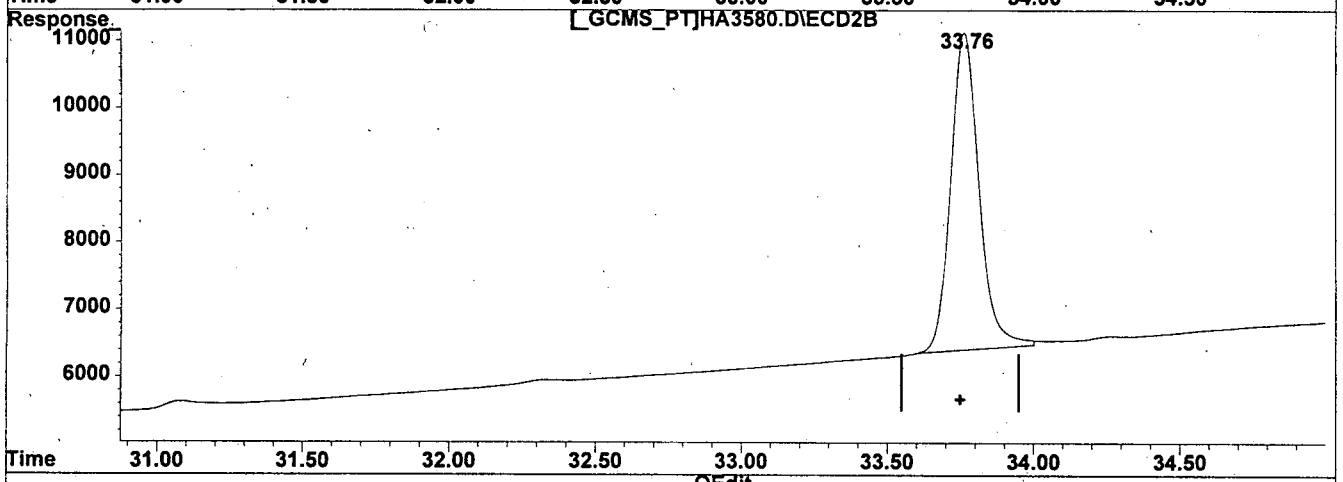
HA3580.D CLP_8.M Wed Feb 25 12:13:17 1998 GC

Quantitation Report

Signal #1 : F:\1\DATA_H\HA3580.D\ECD1A.CH Vial: 10
Signal #2 : F:\1\DATA_H\HA3580.D\ECD2B.CH
Acq On : 25 Mar 98 6:58 Operator:
Sample : INDAL01 Inst : GC_5890_8
Misc : Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 25 12:41 1998 Quant Results File: CLP_8.RES

Method : H:\1\METHODS\CLP_8.M (Chemstation Integrator)
Title : CLPPEST-PCB / OLM03.1
Last Update : Thu Jan 15 15:56:00 1998
Response via : Single Level Calibration





QEdit

(20) Methoxychlor (A)

32.32min 39.904ng/ml

response 247262

(20) Methoxychlor #2 (A)

33.76min 35.407ng/ml m

response 317444

(+) = Expected Retention Time

HA3580.D CLP_8.M Wed Feb 25 13:05:33 1998 GC