211222

ICM LABORATORIES
1152 ROUTE 10
RANDOLPH, NJ 07869
201-584-0330
FAX 201-584-0515

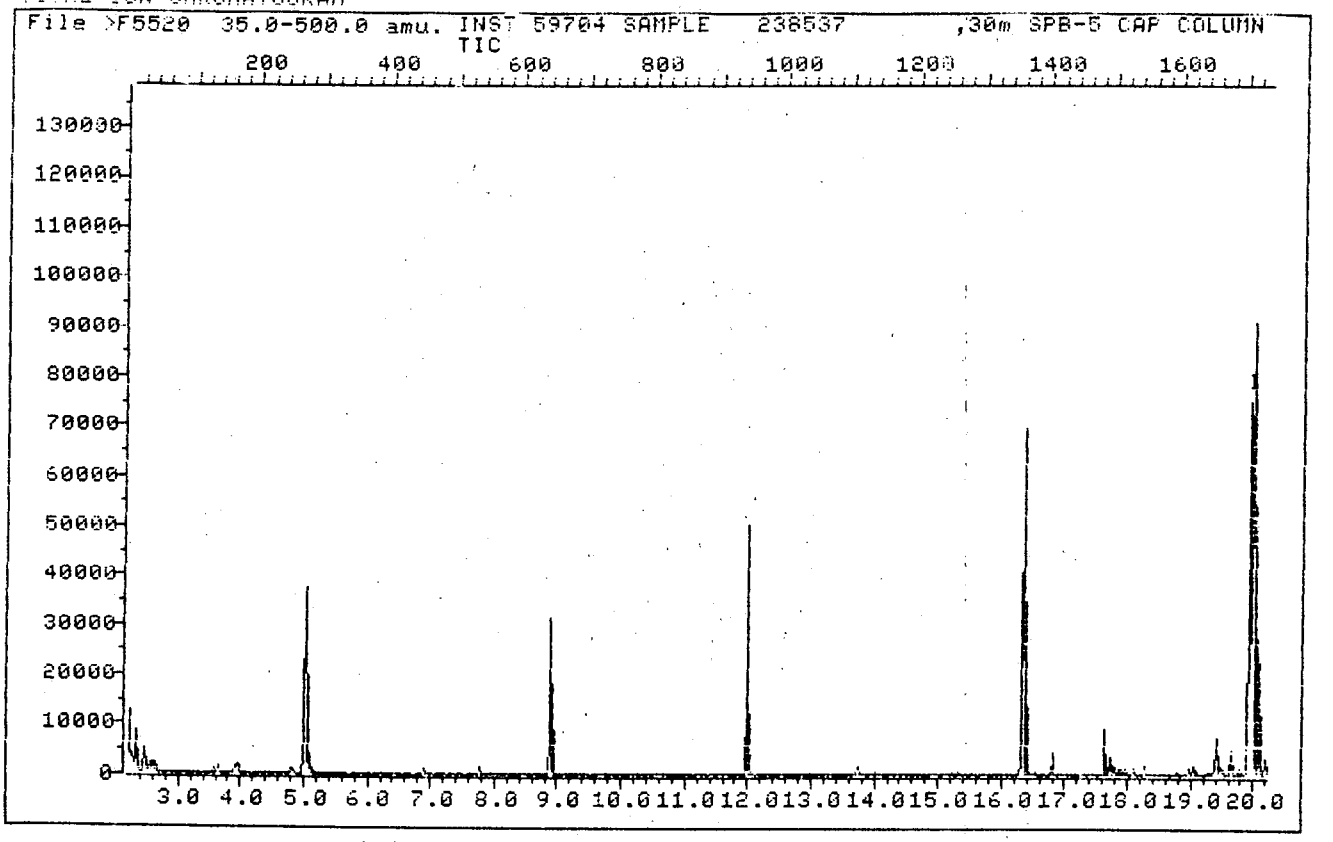
ANALYTICAL DATA REPORT PACKAGE

July 26, 1996

ROY F. WESTON, INC.

RFP-1416

TOTAL ION CHROMATOGRAM



Data File: >F5520::F1 Quant Output File: ^F5520::QT
Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 238537 ,30m SPB-5 CAP COLUMN BTL# 4

Id File: IDPEST::SC
Title: CLP PESTICIDE CONFIRMATION FILE
Last Calibration: : Last Qcal Time: 960705 12:13

Operator ID: GT0101
Quant Time : 960708 18:19
Injected at: 960708 17:40

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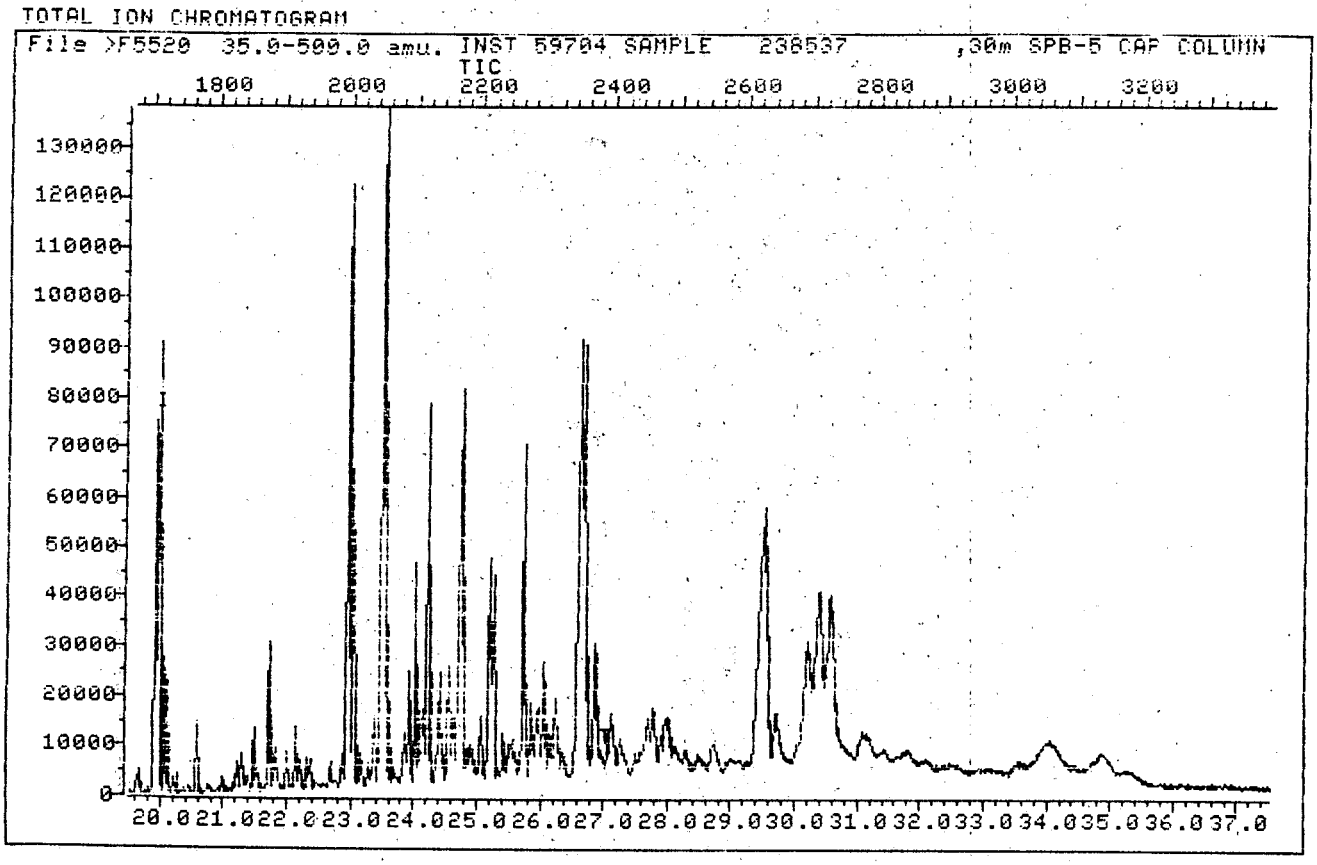
TOTAL ION CHROMATOGRAM



Data File: >F5520::F1 Quant Output File: ^F5520::QT
Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 238537 ,30m SPB-5 CAP COLUMN BTL# 4

Id File: IDPEST::SC
Title: CLP PESTICIDE CONFIRMATION FILE
Last Calibration: : Last Qcal Time: 960705 12:13

Operator ID: GT0101
Quant Time : 960708 18:19
Injected at: 960708 17:40

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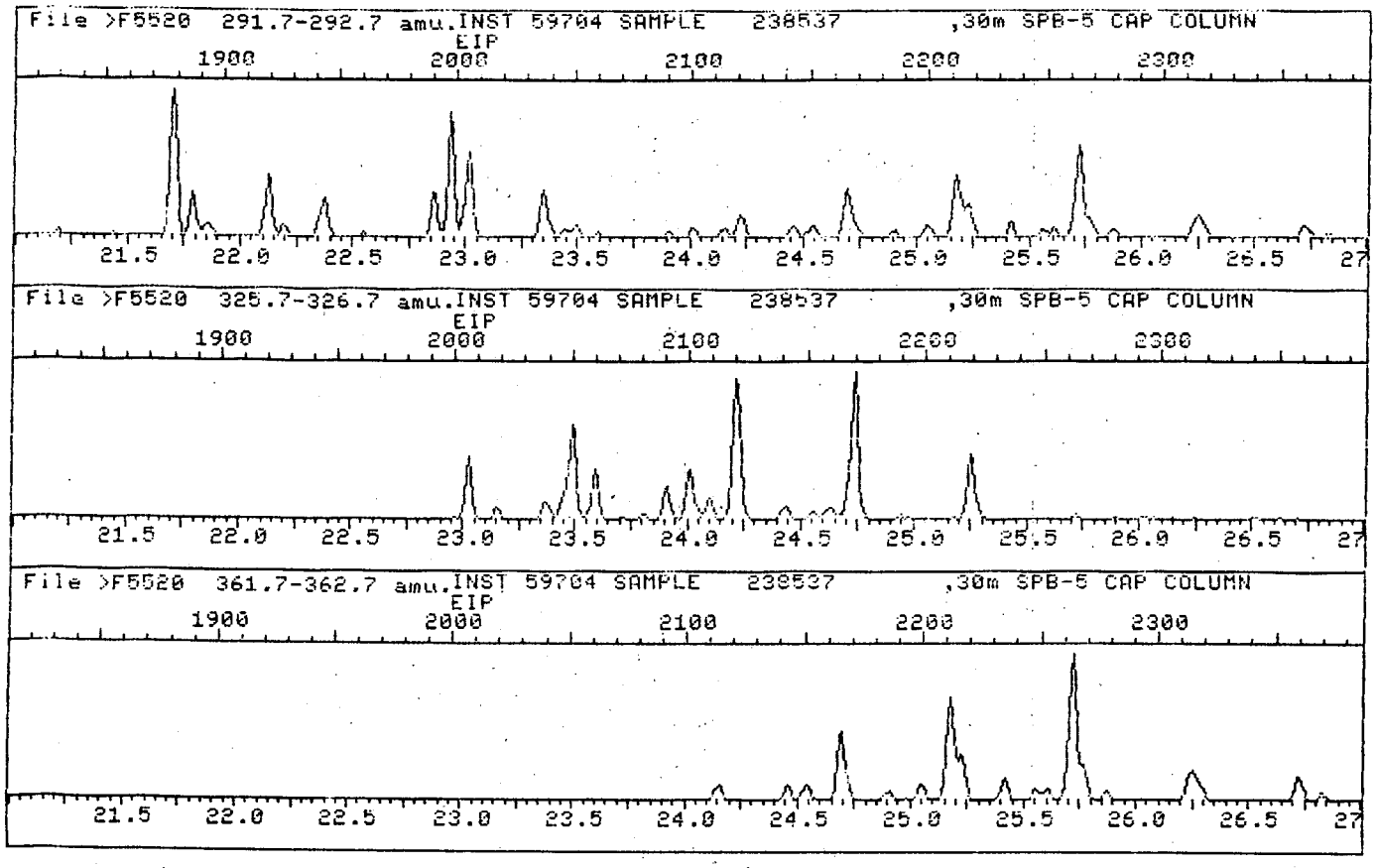


MS data file header from : >F5520::F1

Sample: INST 59704 SAMPLE Operator: GT0101 SUPER GRP. 7/08/96 17:40
Misc : 238537 ,30m SPB-5 CAP COLUMN BTL# 4
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 4 Equip ID: INST F
Method file: BNP4 Tuning file: MTA004 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	40.	280.	300.	0.	0.
Chromatographic times, min. :	4.0	1.0	20.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	10.0	0.0	0.0	0.0

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S3

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Matrix: (soil/water) SOIL Lab Sample ID: 238539

Sample wt/vol: 30.3 (g/mL) G Lab File ID: 03164

% Moisture: 6. decanted: (Y/N) N Date Received: 06/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/03/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/07/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

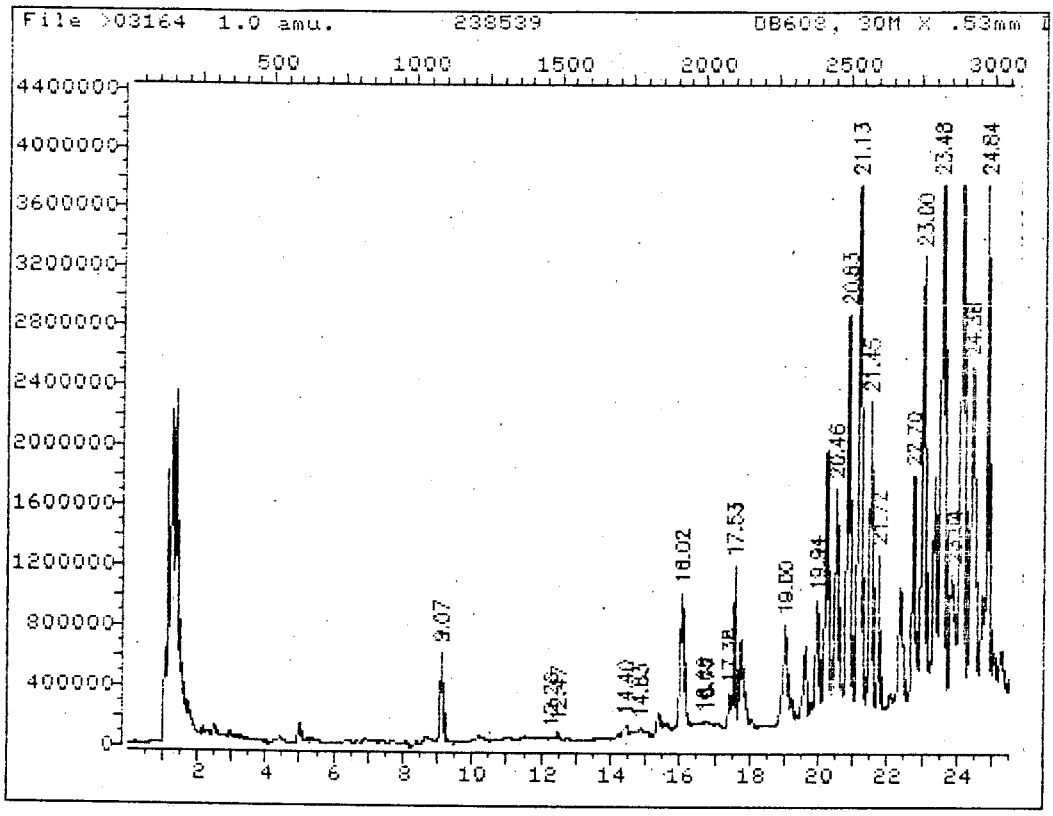
GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

use this data.

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan Sulfate	3.5	U
50-29-3	4,4'-DDT	3.5	U
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	35.	U
11104-28-2	Aroclor-1221	70.	U
11141-16-5	Aroclor-1232	35.	U
53469-21-9	Aroclor-1242	35.	U
12672-29-6	Aroclor-1248	35.	U
11097-69-1	Aroclor-1254	3600 ~~1800.~~	~~E~~ D*
11096-82-5	Aroclor-1260	35.	U

D* value transferred from dilution analysis S3DL 10 x D/F

FORM I PEST OLM03.0



Data File: >03164::G3 Quant Output File: ^03164::F3
Name: 238539 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Operator ID: TRFIL
Quant Time : 960707 03:46
Injected at: 960707 02:52

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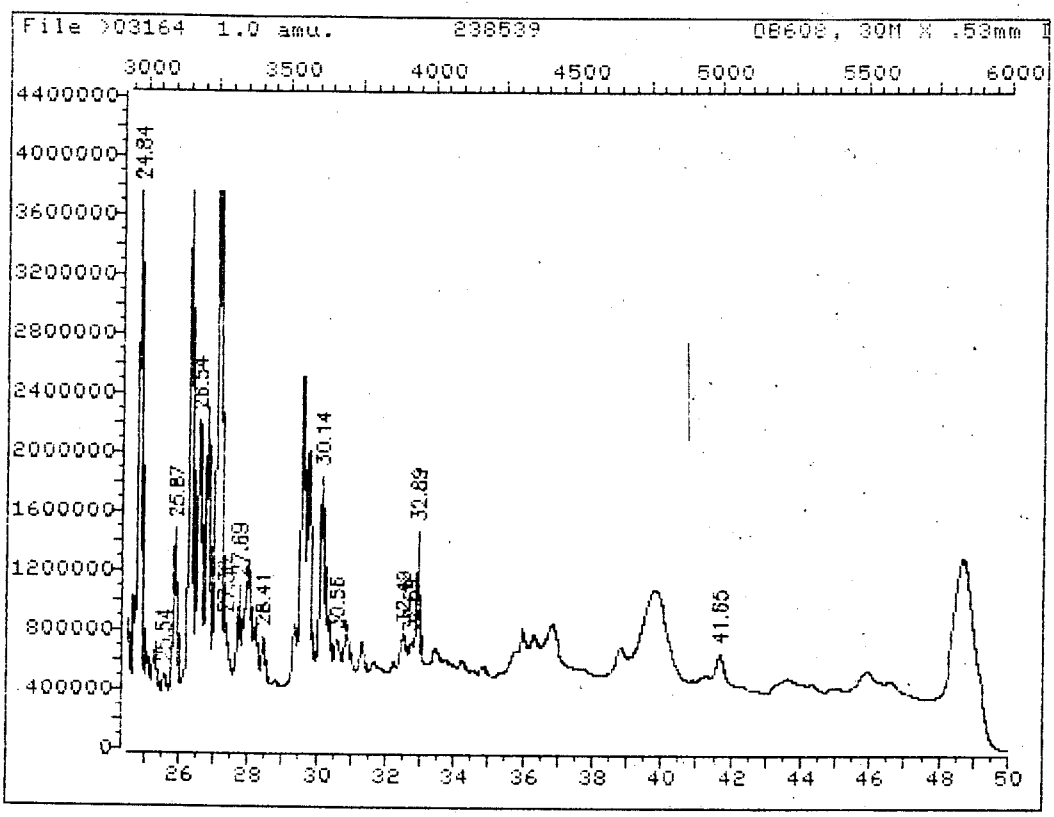
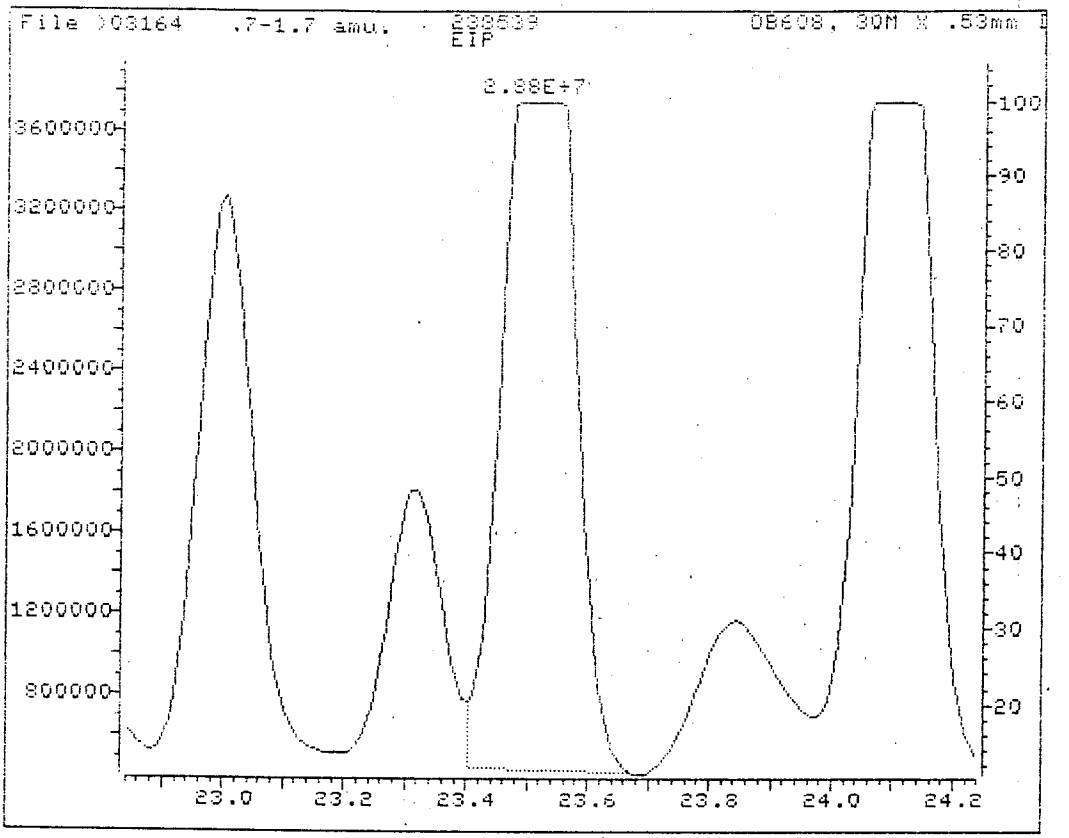


Data File: >03164::G3 Quant Output File: ^03164::F3
Name: 238539 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Operator ID: TRFIL
Quant Time : 960707 03:46
Injected at: 960707 02:52

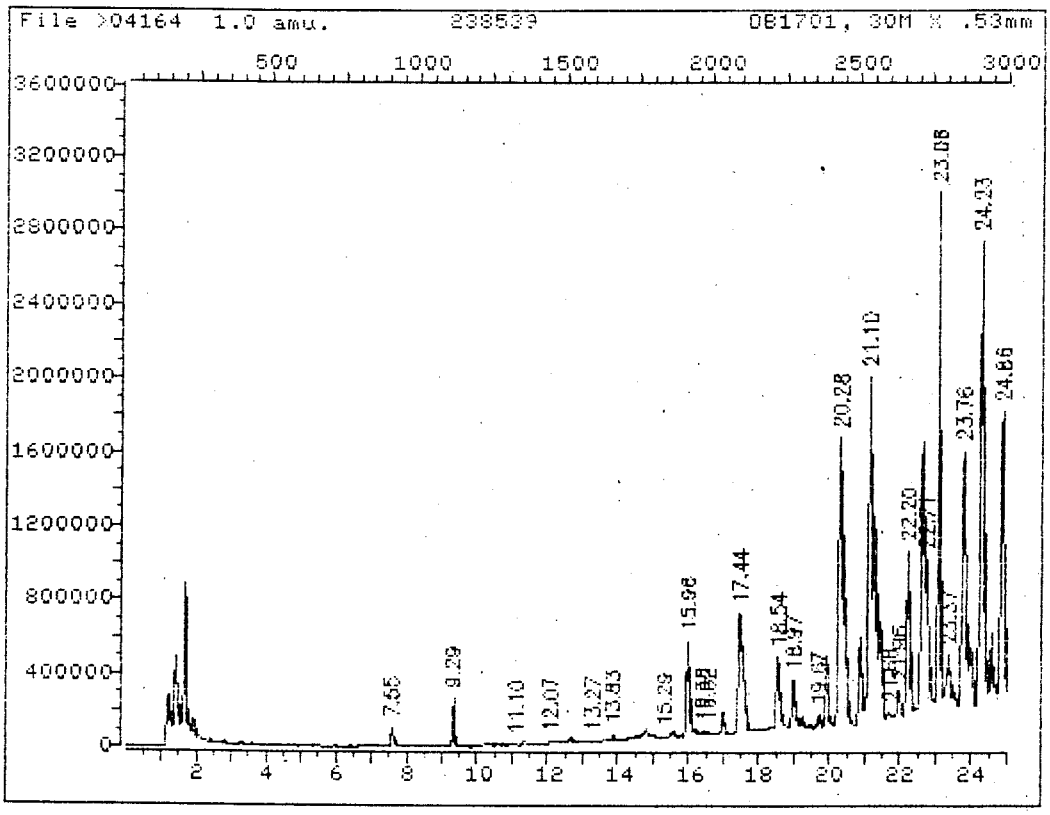
Page 2 of 2



Data File: >03164::G3 Quant Output File: ^03164::F3
Name: 238539 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ
Quant Time: 960707 03:46 Quant ID File: IDCAP1::SC
Injected at: 960707 02:52 Last Calibration: 941029 10:07

Compound No: 53
Compound Name: Aroclor-1254(4)
Scan Number: 2820
Retention Time: 23.50 min.
Quant Ion: 1.0
Area: 28837552M
Concentration: 4749.98 ng/ml
q-value: 100

This report was produced by QAREA on: 960709 13:13



Data File: >04164::G5 Quant Output File: ^04164::F3
Name: 238539 Instrument ID: GC04
Misc: DB1701. 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

Operator ID: TRFIL
Quant Time : 960707 03:43
Injected at: 960707 02:52

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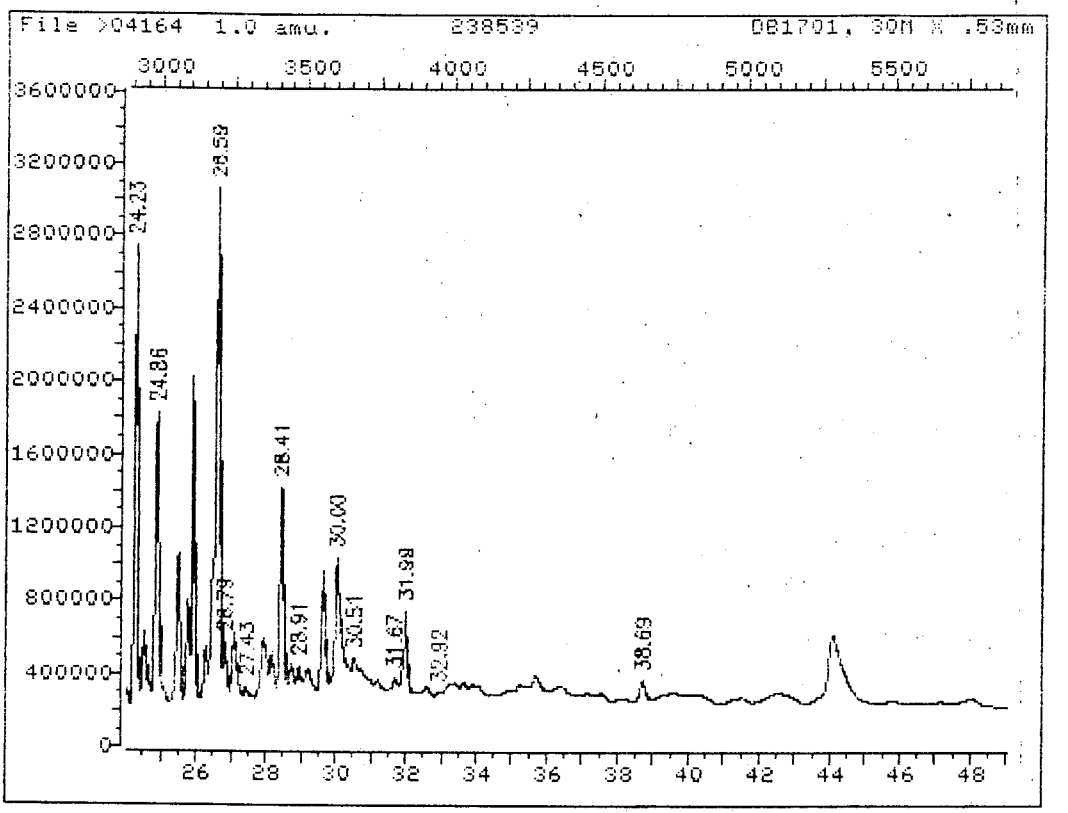

Data File: >04164::G5 Quant Output File: ^04164::F3
Name: 238539 Instrument ID: GC04
Misc: DB1701, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

Operator ID: TRFIL
Quant Time : 960707 03:43
Injected at: 960707 02:52

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QUANT REPORT

Operator ID: TRFIL Quant Rev: 7 Quant Time: 960707 03:46
Output File: ^03164::F3 Injected at: 960707 02:52
Data File: >03164::G3 Dilution Factor: 1.00000
Name: 238539 Instrument ID: GC03
Misc: DB608. 30M X .53mm INST 58903. 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.07	1089	3268813	26.12	ng/ml	100
2)	~~#alpha-BHC~~	12.47	1496	335585	2.27	ng/ml	100
3)	~~#beta BHC~~	14.83	1780	124538	1.52	ng/ml	100
4)	~~#delta BHC~~	16.68	2002	35655	.295	ng/ml	100
5)	~~#gamma-BHC (Lindane)~~	14.40	1728	637997	4.67	ng/ml	100
6)	~~#Heptachlor~~	16.02	1923	7006611	89.80	ng/ml	100
7)	~~#Aldrin~~	17.38	2086	1144583	8.49	ng/ml	100
8)	~~#Heptachlor epoxide~~	19.94	2393	4107346	37.39	ng/ml	100
9)	~~#Endosulfan I~~	21.72	2606	5934149	48.70	ng/ml	100
10)	~~#Dieldrin~~	23.00	2760	16993460	179.73	ng/ml	100
11)	~~#4,4'-DDE~~	22.70	2724	11962020	130.76	ng/ml	100
12)	~~#Endrin~~ NT	24.84	2980	22618036	264.25	ng/ml	100
13)	~~#Endosulfan II~~	25.87	3104	7960767	82.66	ng/ml	100
14)	~~#4,4'-DDD~~	25.54	3064	610830	10.60	ng/ml	100
15)	~~#Endosulfan Sulfate~~	28.41	3409	2288066	25.81	ng/ml	100
16)	~~#4,4'-DDT~~	27.30	3276	2214280	34.16	ng/ml	100
17)	~~#Methoxychlor~~	32.49	3898	2404044	61.92	ng/ml	100
18)	~~#Endrin ketone~~	32.69	3923	1231663	13.68	ng/ml	100
19)	#Decachlorobiphenyl	41.65	4998	3440122	28.74	ng/ml	100
20)	~~#alpha-Chlordane~~ NT	21.45	2574	11669974	84.98	ng/ml	100
21)	~~#gamma-Chlordane~~ NT	20.83	2500	15814370	134.20	ng/ml	100
22)	~~#Toxaphene(1)~~ NP	23.84	2861	7191626	4484.32	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.26	1471	111765	38.02	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	12.26	1471	111765	39.01	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.26	1471	111765	42.85	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	16.02	1923	7280771	962.15	ng/ml	100
28)	#Aroclor-1254(1)	20.83	2500	15814370	3335.34	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	24.38	2926	17361244	2239.57	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	27.69	3323	4837574	61.33	ng/ml	100
31)	~~#Toxaphene(2)~~ NP	27.69	3323	4837574	2628.90	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	28.41	3409	2288066	915.42	ng/ml	100
33)	~~#Toxaphene(4)~~ NP	30.56	3667	1289861	669.08	ng/ml	100
34)	~~#Aroclor-1016(2)~~ NP	14.40	1728	637997	97.60	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	16.02	1923	7280771	659.15	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.77	2013	85476	22.89	ng/ml	100
37)	~~#Aroclor-1016(5)~~ NP	19.00	2280	5163679	1519.77	ng/ml	100
39)	~~#Aroclor-1221(3)~~ NP	12.26	1471	111765	29.29	ng/ml	100
40)	~~#Aroclor-1232(2)~~ NP	14.40	1728	637997	226.08	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	16.02	1923	7280771	1547.58	ng/ml	100
42)	~~#Aroclor-1232(4)~~ NP	16.77	2013	85476	49.65	ng/ml	100

EBrui
7/9/96

QUANT REPORT

Operator ID: TRFIL Quant Rev: 7 Quant Time: 960707 03:46
Output File: ^03164::F3 Injected at: 960707 02:52
Data File: >03164::G3 Dilution Factor: 1.00000
Name: 238539 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Compound	R.T.	Scan#	Area	Conc	Units	q
43) ~~#Aroclor-1242(2)~~ UP	14.40	1728	637997	118.53	ng/ml	100
44) ~~#Aroclor-1242(3)~~ UP	16.02	1923	7280771	816.84	ng/ml	100
45) ~~#Aroclor-1242(4)~~ UP	16.77	2013	85476	27.02	ng/ml	100
46) ~~#Aroclor-1242(5)~~ UP	19.00	2280	5163679	1727.58	ng/ml	100
47) ~~#Aroclor-1248(2)~~ UP	17.53	2104	5737269	2199.59	ng/ml	100
48) ~~#Aroclor-1248(3)~~ UP	19.00	2280	5163679	1243.47	ng/ml	100
49) ~~#Aroclor-1248(4)~~ UP	20.46	2455	8113896	1674.68	ng/ml	100
50) ~~#Aroclor-1248(5)~~ UP	21.72	2606	5934149	1076.34	ng/ml	100
51) #Aroclor-1254(2)	21.13	2535	23752028	4285.92	ng/ml	100
52) #Aroclor-1254(3)	22.70	2724	11953186	7413.29	ng/ml	100
53) #Aroclor-1254(4)	23.50	2820	28837552M	4749.98	ng/ml	100
54) #Aroclor-1254(5)	24.84	2980	22618036	6307.98	ng/ml	100
55) ~~#Aroclor-1260(2)~~ UP	24.84	2980	21621004	3086.78	ng/ml	100
56) ~~#Aroclor-1260(3)~~ UP	26.54	3185	10613344	2033.11	ng/ml	100
57) ~~#Aroclor-1260(4)~~ UP	30.14	3616	9728662	900.41	ng/ml	100
58) ~~#Aroclor-1260(5)~~ UP	32.89	3947	7305903	1323.29	ng/ml	100

Compound uses ESTD

EPM
7/9/96

QUANT REPORT

Operator ID: TRFIL
Output File: ^04164::F3
Data File: >04164::G5
Name: 238539
Misc: DB1701. 30M X .53mm INST 58903. 1ul INJ

Quant Rev: 7
Quant Time: 960707 03:43
Injected at: 960707 02:52
Dilution Factor: 1.00000
Instrument ID: GC04

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07
Last Qcal Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.29	1115	1257723	30.37	ng/ml	100
2)	~~#alpha-BHC~~	13.27	1593	14479	.442	ng/ml	100
3)	~~#beta-BHC~~	18.54	2225	2634874	100.28	ng/ml	100
4)	~~#delta-BHC~~	19.67	2360	426096	17.48	ng/ml	100
5)	~~#gamma-BHC (Lindane)~~	15.29	1835	17204	.506	ng/ml	100
6)	~~#Heptachlor~~	16.38	1966	68114	1.44	ng/ml	100
7)	~~#Aldrin~~	17.44	2093	6254731	166.08	ng/ml	100
9)	~~#Endosulfan I~~	21.68	2602	200490	5.62	ng/ml	100
10)	~~#Dieldrin~~	23.37	2804	1920786	59.15	ng/ml	100
11)	~~#4,4'-DDE~~	22.71	2725	4240802	152.77	ng/ml	100
12)	~~#Endrin~~	24.23	2908	17052468	588.25	ng/ml	100
13)	~~#Endosulfan II~~	26.79	3215	2007009	56.08	ng/ml	100
14)	~~#4,4'-DDD~~	26.59	3190	24406748	1155.03	ng/ml	100
15)	~~#Endosulfan Sulfate~~	30.51	3661	494831	18.70	ng/ml	100
16)	~~#4,4'-DDT~~	27.43	3291	300047	18.21	ng/ml	100
18)	~~#Endrin ketone~~	32.92	3950	135628	4.82	ng/ml	100
19)	#Decachlorobiphenyl	38.69	4643	1363911	29.21	ng/ml	100
20)	~~#alpha-Chlordane~~	22.20	2664	5623304	134.84	ng/ml	100
21)	#gamma-Chlordane	21.96	2635	861500	21.56	ng/ml	100
23)	~~#Aroclor-1016(1)~~	12.07	1448	54711	44.30	ng/ml	100
24)	~~#Aroclor-1221(1)~~	7.55	906	476966	603.12	ng/ml	100
25)	~~#Aroclor-1232(1)~~	7.55	906	476966	400.55	ng/ml	100
26)	~~#Aroclor-1242(1)~~	12.07	1448	54711	51.71	ng/ml	100
27)	~~#Aroclor-1248(1)~~	13.83	1660	177203	160.88	ng/ml	100
28)	#Aroclor-1254(1)	17.44	2093	6234109	3924.18	ng/ml	100
29)	~~#Aroclor-1260(1)~~	23.76	2851	9464340	4096.53	ng/ml	100
30)	~~#Endrin aldehyde~~	28.91	3469	1249826	41.13	ng/ml	100
31)	~~#Toxaphene(2)~~	28.41	3409	7719520	10710.55	ng/ml	100
32)	~~#Toxaphene(3)~~	30.51	3661	506345	1027.34	ng/ml	100
33)	~~#Toxaphene(4)~~	31.67	3800	474155	944.92	ng/ml	100
34)	~~#Aroclor-1016(2)~~	13.83	1660	177203	72.48	ng/ml	100
35)	~~#Aroclor-1016(3)~~	15.96	1915	3021051	778.80	ng/ml	100
36)	~~#Aroclor-1016(4)~~	16.52	1983	47831	32.84	ng/ml	100
37)	~~#Aroclor-1016(5)~~	18.54	2225	2634874	1278.64	ng/ml	100
38)	~~#Aroclor-1221(2)~~	11.10	1332	25164	38.37	ng/ml	100
39)	~~#Aroclor-1221(3)~~	12.07	1448	54711	31.90	ng/ml	100
40)	~~#Aroclor-1232(2)~~	12.07	1448	54711	46.70	ng/ml	100
41)	~~#Aroclor-1232(3)~~	13.83	1660	177203	172.09	ng/ml	100
42)	~~#Aroclor-1232(4)~~	15.96	1915	3021051	1933.91	ng/ml	100
43)	~~#Aroclor-1242(2)~~	13.83	1660	177203	89.21	ng/ml	100

NT

EPM
7/8/96

QUANT REPORT

Operator ID: TRFIL
Quant Rev: 7
Quant Time: 960707 03:43
Output File: ^04164::F3
Injected at: 960707 02:52
Data File: >04164::G5
Dilution Factor: 1.00000
Name: 238539
Instrument ID: GC04
Misc: DB1701, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07
Last Qcal Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
44)	~~#Aroclor-1242(3)~~ UP	15.96	1915	3021051	979.85	ng/ml	100
45)	~~#Aroclor-1242(4)~~ UP	16.52	1983	47831	41.85	ng/ml	100
46)	~~#Aroclor-1242(5)~~ UP	17.44	2093	6241356	7888.07	ng/ml	100
47)	~~#Aroclor-1248(2)~~ UP	15.96	1915	3021051	1156.48	ng/ml	100
48)	~~#Aroclor-1248(3)~~ UP	18.54	2225	2634874	1069.49	ng/ml	100
49)	~~#Aroclor-1248(4)~~ UP	18.97	2276	1595437	903.75	ng/ml	100
50)	~~#Aroclor-1248(5)~~ UP	20.28	2434	10261688	10691.48	ng/ml	100
51)	#Aroclor-1254(2)	20.28	2434	10261688	5047.16	ng/ml	100
52)	#Aroclor-1254(3)	21.10	2532	11194636	6103.91	ng/ml	100
53)	#Aroclor-1254(4)	23.06	2767	16644642	6528.08	ng/ml	100
54)	#Aroclor-1254(5)	23.76	2851	9464340	6978.26	ng/ml	100
55)	~~#Aroclor-1260(2)~~ UP	24.86	2983	9720846	3580.28	ng/ml	100
56)	~~#Aroclor-1260(3)~~ UP	28.41	3409	7584176	4273.16	ng/ml	100
57)	~~#Aroclor-1260(4)~~ UP	30.00	3600	7044266	1791.71	ng/ml	100
58)	~~#Aroclor-1260(5)~~ UP	31.99	3838	4321028	1739.93	ng/ml	100

Compound uses ESTD

EBrei
7/8/96

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S3	DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Matrix: (soil/water) SOIL Lab Sample ID: 238539

Sample wt/vol: 30.3 (g/mL) G Lab File ID: 03221

% Moisture: 6. decanted: (Y/N) N Date Received: 06/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/03/96

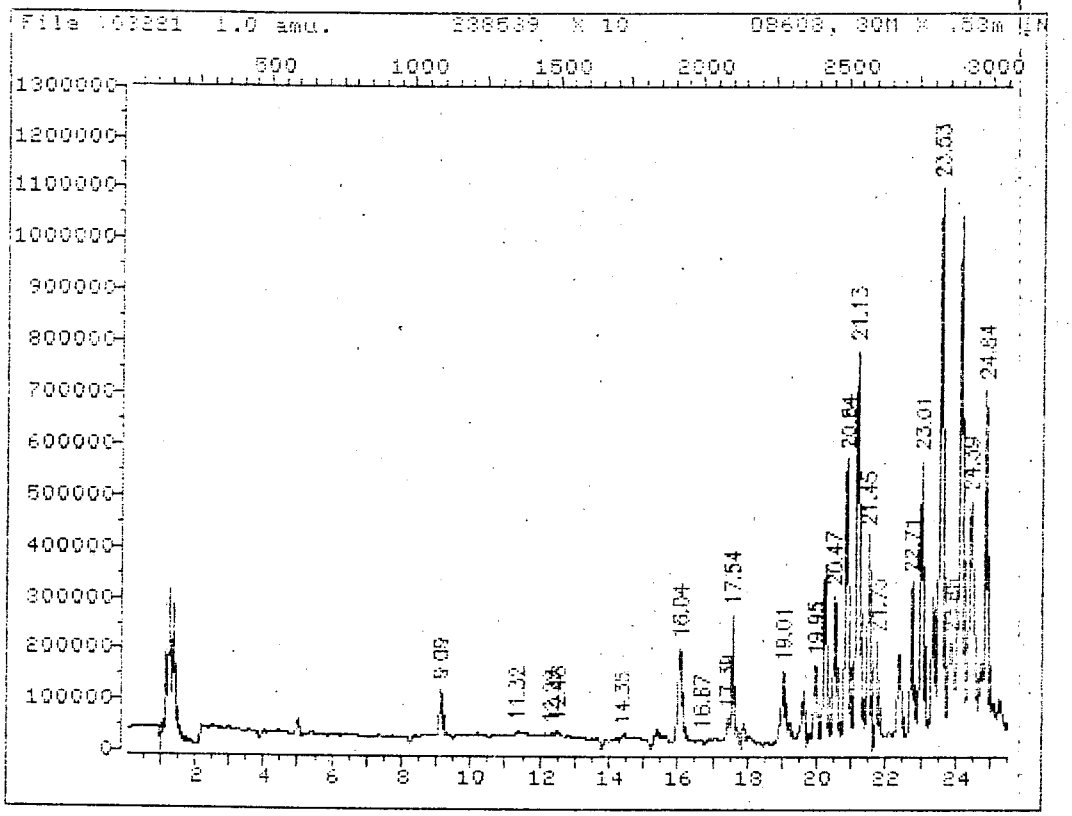
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/96

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

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

Do not use these data

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	18.	U
319-85-7	beta-BHC	18.	U
319-86-8	delta-BHC	18.	U
58-89-9	gamma-BHC (Lindane)	18.	U
76-44-8	Heptachlor	18.	U
309-00-2	Aldrin	18.	U
1024-57-3	Heptachlor epoxide	18.	U
959-98-8	Endosulfan I	18.	U
60-57-1	Dieldrin	35.	U
72-55-9	4,4'-DDE	35.	U
72-20-8	Endrin	35.	U
33213-65-9	Endosulfan II	35.	U
72-54-8	4,4'-DDD	35.	U
1031-07-8	Endosulfan Sulfate	35.	U
50-29-3	4,4'-DDT	35.	U
72-43-5	Methoxychlor	180.	U
53494-70-5	Endrin ketone	35.	U
7421-93-4	Endrin aldehyde	35.	U
5103-71-9	alpha-Chlordane	18.	U
5103-74-2	gamma-Chlordane	18.	U
8001-35-2	Toxaphene	1800.	U
12674-11-2	Aroclor-1016	350.	U
11104-28-2	Aroclor-1221	700.	U
11141-16-5	Aroclor-1232	350.	U
53469-21-9	Aroclor-1242	350.	U
12672-29-6	Aroclor-1248	350.	U
11097-69-1	Aroclor-1254	3600.	D
11096-82-5	Aroclor-1260	350.	U



Data File: >03221::G3 Quant Output File: ^03221::F3
Name: 238539 X 10 Instrument ID: GC03
Misc: DB608. 30M X .53m INST 58903. 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Operator ID: TRFIL
Quant Time : 960709 21:04
Injected at: 960709 18:29

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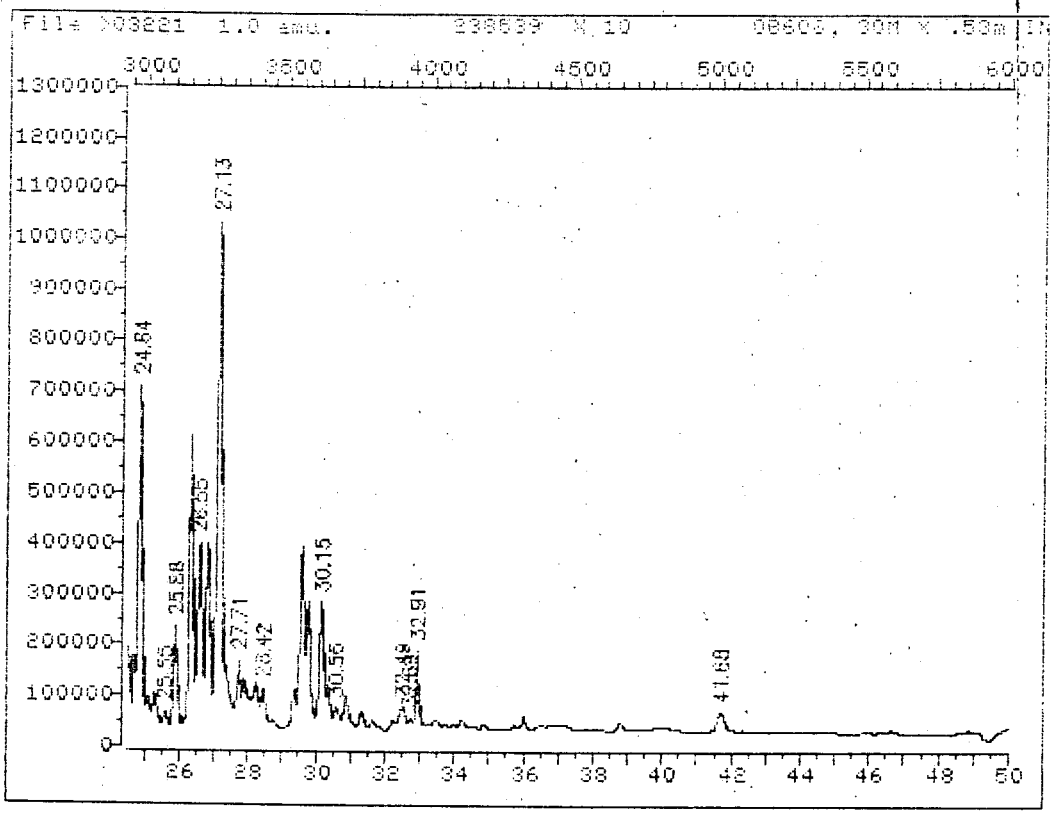
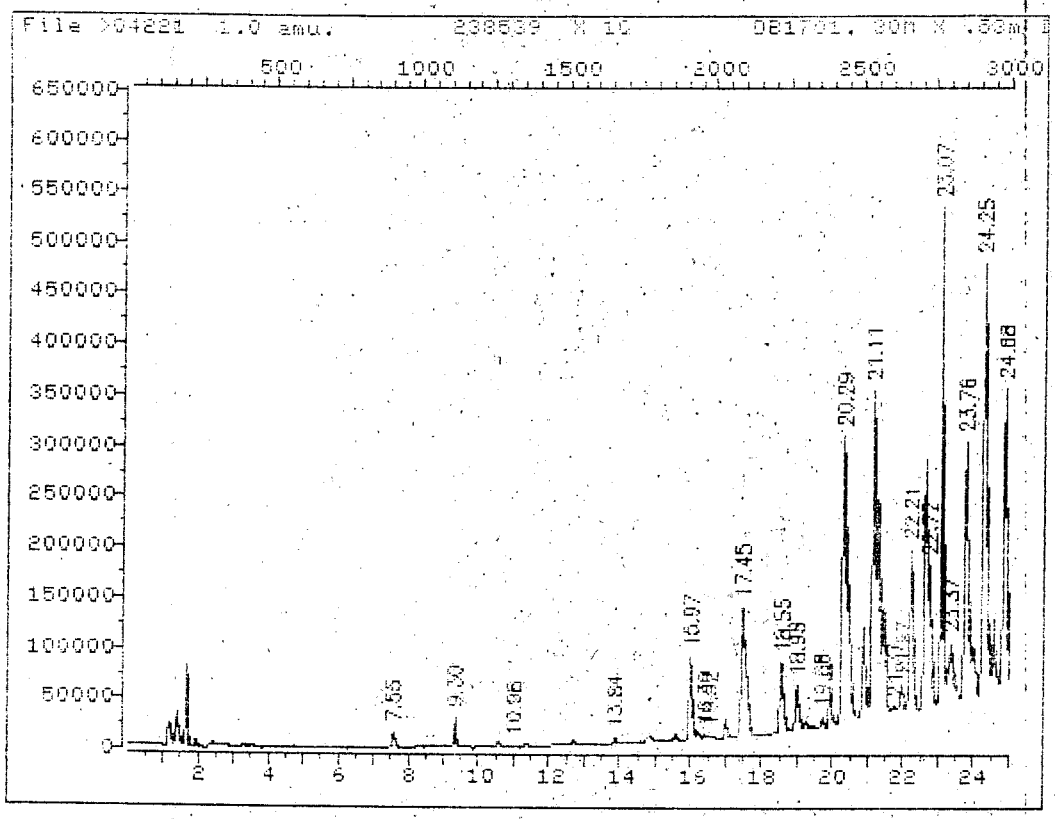


Data File: >03221::G3 Quant Output File: ^03221::F3
Name: 238539 X 10 Instrument ID: GC03
Misc: DB608, 30M X .53m INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Operator ID: TRFIL
Quant Time : 960709 21:04
Injected at: 960709 18:29

Page 2 of 2

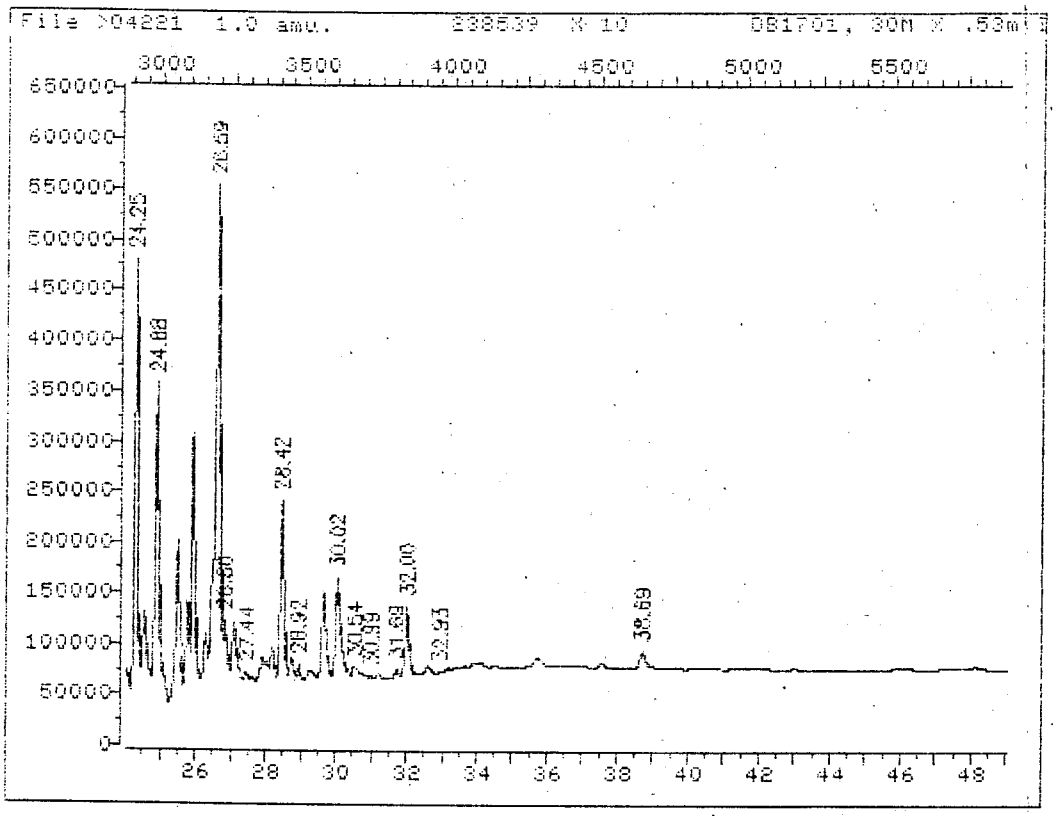


Data File: >04221::G1 Quant Output File: ^04221::F3
Name: 238539 X 10 Instrument ID: GC04
Misc: DB1701, 30M X .53m INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

Operator ID: TRFIL
Quant Time : 960709 21:02
Injected at: 960709 18:29

Page 1 of 2



Data File: >04221::G1 Quant Output File: ^04221::F3
Name: 238539 X 10 Instrument ID: GC04
Misc: DB1701, 30M X .53m INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

Operator ID: TRFIL
Quant Time : 960709 21:02
Injected at: 960709 18:29

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QUANT REPORT

Operator ID: TRFIL
Output File: `03221::F3
Data File: >03221::G3
Name: 238539 X 10 S3 DL
Misc: DB608. 30M X .53m INST 58903. 1ul INJ

Quant Rev: 7
Quant Time: 960709 21:04
Injected at: 960709 18:29
Dilution Factor: 1.00000
Instrument ID: GC03

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07
Last Cal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.09	1091	487183	3.89	ng/ml	100
2)	~~#alpha BHC~~	12.48	1498	111428	.753	ng/ml	100
4)	~~#delta BHC~~	16.67	2001	43550	.360	ng/ml	100
5)	~~#gamma BHC (Lindane)~~	14.35	1722	39896	.292	ng/ml	100
6)	~~#Heptachlor~~	16.04	1925	1455563	18.66	ng/ml	100
7)	~~#Aldrin~~	17.39	2087	209354	1.55	ng/ml	100
8)	~~#Heptachlor epoxide~~	19.95	2394	872644	7.94	ng/ml	100
9)	~~#Endosulfan I~~	21.73	2607	1822330	14.96	ng/ml	100
10)	~~#Dieldrin~~	23.01	2761	3292540	34.82	ng/ml	100
11)	~~#4,4'-DDE~~	22.71	2725	2355155	25.75	ng/ml	100
12)	~~#Endrin~~	24.84	2981	4552350	53.19	ng/ml	100
13)	~~#Endosulfan II~~	25.88	3105	1365949	14.18	ng/ml	100
14)	~~#4,4'-DDD~~	25.55	3066	206440	3.58	ng/ml	100
15)	~~#Endosulfan Sulfate~~	28.42	3410	476998	5.38	ng/ml	100
16)	~~#4,4'-DDT~~	27.13	3255	7428024	114.60	ng/ml	100
17)	~~#Methoxychlor~~	32.49	3898	443087	11.41	ng/ml	100
18)	~~#Endrin ketone~~	32.69	3923	89218	.991	ng/ml	100
19)	#Decachlorobiphenyl	41.68	5001	481470	4.02	ng/ml	100
20)	~~#alpha Chlordane~~ NT	21.45	2574	2503059	18.23	ng/ml	100
21)	~~#gamma Chlordane~~ NT	20.84	2501	3494569	29.66	ng/ml	100
22)	~~#Toxaphene(1)~~ NP	23.86	2863	1407710	877.77	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.29	1475	37135	12.63	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	12.29	1475	37135	12.96	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.29	1475	37135	14.24	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	16.04	1925	1539079	203.39	ng/ml	100
28)	#Aroclor-1254(1)	20.84	2501	3494569	737.03	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	24.39	2927	3546007	457.43	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	27.71	3325	760012	9.64	ng/ml	100
31)	~~#Toxaphene(2)~~ NP	27.71	3325	760012	413.02	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	28.42	3410	476998	190.84	ng/ml	100
33)	~~#Toxaphene(4)~~ NP	30.56	3667	185483	96.21	ng/ml	100
34)	~~#Aroclor-1016(2)~~ NP	14.35	1722	39896	6.10	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	16.04	1925	1539079	139.34	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.67	2001	43550	11.66	ng/ml	100
37)	~~#Aroclor-1016(5)~~ NP	19.01	2281	1095852	322.53	ng/ml	100
38)	~~#Aroclor-1221(2)~~ NP	11.32	1358	52727	31.38	ng/ml	100
39)	~~#Aroclor-1221(3)~~ NP	12.29	1475	37135	9.73	ng/ml	100
40)	~~#Aroclor-1232(2)~~ NP	14.35	1722	39896	14.14	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	16.04	1925	1539079	327.14	ng/ml	100
42)	~~#Aroclor-1232(4)~~ NP	16.67	2001	43550	25.29	ng/ml	100

EPrci
7/10/96

QUANT REPORT

Operator ID: TRFIL Quant Rev: 7 Quant Time: 960709 21:04
Output File: ^03221::F3 Injected at: 960709 18:29
Data File: >03221::G3 Dilution Factor: 1.00000
Name: 338539 X 10 Instrument ID: GC03
Misc: DB608, 30M X .53m INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
43)	~~#Aroclor-1242(2)~~ NP	14.35	1722	39896	7.41	ng/ml	100
44)	~~#Aroclor-1242(3)~~ NP	16.04	1925	1539079	172.67	ng/ml	100
45)	~~#Aroclor-1242(4)~~ NP	16.67	2001	43550	13.77	ng/ml	100
46)	~~#Aroclor-1242(5)~~ NP	19.01	2281	1095852	366.63	ng/ml	100
47)	~~#Aroclor-1248(2)~~ NP	17.54	2105	1535687	588.76	ng/ml	100
48)	~~#Aroclor-1248(3)~~ NP	19.01	2281	1095852	263.89	ng/ml	100
49)	~~#Aroclor-1248(4)~~ NP	20.47	2456	1657533	342.11	ng/ml	100
50)	~~#Aroclor-1248(5)~~ NP	21.73	2607	1822330	330.53	ng/ml	100
51)	#Aroclor-1254(2)	21.13	2536	5138762	927.26	ng/ml	100
52)	#Aroclor-1254(3)	22.71	2725	2355155	1460.65	ng/ml	100
53)	#Aroclor-1254(4)	23.53	2823	6820284	1123.40	ng/ml	100
54)	#Aroclor-1254(5)	24.84	2981	4552350	1269.61	ng/ml	100
55)	~~#Aroclor-1260(2)~~ NP	24.84	2981	4552350	649.93	ng/ml	100
56)	~~#Aroclor-1260(3)~~ NP	26.55	3186	2587064	495.58	ng/ml	100
57)	~~#Aroclor-1260(4)~~ NP	30.15	3618	1767001	163.54	ng/ml	100
58)	~~#Aroclor-1260(5)~~ NP	32.91	3949	1098192	198.91	ng/ml	100

Compound uses ESTD

EPrice
7/10/96

QUANT REPORT

Operator ID: TRFIL Quant Rev: 7 Quant Time: 960709 21:02
Output File: ^04221::F3 Injected at: 960709 18:29
Data File: >04221::G1 Dilution Factor: 1.00000
Name: 238539 X 10 Instrument ID: GC04
Misc: DB1701. 30M X .53m INST 58903. 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Ccal Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.30	1116	149083	3.60	ng/ml	100
3)	~~#beta BHC~~	18.55	2226	485238	18.47	ng/ml	100
4)	~~#delta BHC~~	19.68	2361	65403	2.68	ng/ml	100
6)	~~#Heptachlor~~	16.39	1967	23481	.495	ng/ml	100
7)	~~#Aldrin~~	17.45	2094	1215605	32.28	ng/ml	100
9)	~~#Endosulfan I~~	21.77	2612	22771	.638	ng/ml	100
10)	~~#Dieldrin~~	23.37	2804	358214	11.03	ng/ml	100
11)	~~#4,4' DDE~~	22.72	2726	720185	25.94	ng/ml	100
12)	~~#Endrin~~	24.25	2910	3019551	104.16	ng/ml	100
13)	~~#Endosulfan II~~	26.80	3216	400964	11.20	ng/ml	100
14)	~~#4,4' DDD~~	26.59	3191	3658885	173.15	ng/ml	100
15)	~~#Endosulfan Sulfate~~	30.54	3664	86280	3.26	ng/ml	100
16)	~~#4,4'-DDT~~	27.44	3293	41387	2.51	ng/ml	100
17)	~~#Methoxychlor~~	30.99	3718	10738	.798	ng/ml	100
18)	~~#Endrin ketone~~	32.93	3951	9654	.343	ng/ml	100
19)	#Decachlorobiphenyl	38.69	4643	193248	4.14	ng/ml	100
20)	~~#alpha-Chlordane~~ NT	22.21	2665	990245	23.74	ng/ml	100
21)	~~#gamma-Chlordane~~ NT	21.97	2636	136335	3.41	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	7.55	906	76408	96.62	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	7.55	906	76408	64.17	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	13.84	1661	30574	27.76	ng/ml	100
28)	#Aroclor-1254(1)	17.45	2094	1215605	765.19	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	23.76	2851	1781503	771.10	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	28.92	3470	116472	3.83	ng/ml	100
31)	~~#Toxaphene(2)~~ NP	28.42	3410	1230152	1706.79	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	30.54	3664	87073	176.67	ng/ml	100
33)	~~#Toxaphene(4)~~ NP	31.69	3802	69329	138.16	ng/ml	100
34)	~~#Aroclor-1016(2)~~ NP	13.84	1661	30574	12.51	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	15.97	1917	505368	130.28	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.52	1983	21885	15.03	ng/ml	100
37)	~~#Aroclor-1016(5)~~ NP	18.55	2226	485238	235.47	ng/ml	100
38)	~~#Aroclor-1221(2)~~ NP	10.98	1318	6239	9.51	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	13.84	1661	30574	29.69	ng/ml	100
42)	~~#Aroclor-1232(4)~~ NP	15.97	1917	505368	323.51	ng/ml	100
43)	~~#Aroclor-1242(2)~~ NP	13.84	1661	30574	15.39	ng/ml	100
44)	~~#Aroclor-1242(3)~~ NP	15.97	1917	505368	163.91	ng/ml	100
45)	~~#Aroclor-1242(4)~~ NP	16.52	1983	21885	19.15	ng/ml	100
46)	~~#Aroclor-1242(5)~~ NP	17.45	2094	1215605	1536.33	ng/ml	100
47)	~~#Aroclor-1248(2)~~ NP	15.97	1917	505368	193.46	ng/ml	100
48)	~~#Aroclor-1248(3)~~ NP	18.55	2226	485238	196.96	ng/ml	100

EPMa
7/10/96

QUANT REPORT

Operator ID: TRFIL
Output File: ^04221::F3
Data File: >04221::G1
Name: 238539 X 10
Misc: DB1701, 30M X .53m INST 58903, 1ul INJ

Quant Rev: .7
Quant Time: 960709 21:02
Injected at: 960709 18:29
Dilution Factor: 1.00000
Instrument ID: GC04

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07
Last Qual Time: 960701 21:23

Compound	R.T.	Scan#	Area	Conc	Units	q
49) #~~Aroclor-1248~~(4) NP	18.98	2277	285672	161.82	ng/ml	100
50) #~~Aroclor-1248~~(5) NP	20.29	2435	1938864	2020.07	ng/ml	100
51) #Aroclor-1254(2)	20.29	2435	1938864	953.62	ng/ml	100
52) #Aroclor-1254(3)	21.11	2533	1738030	947.67	ng/ml	100
53) #Aroclor-1254(4)	23.07	2768	3073611	1205.48	ng/ml	100
54) #Aroclor-1254(5)	23.76	2851	1781503	1313.54	ng/ml	100
55) #~~Aroclor-1260~~(2) NP	24.88	2985	1867216	687.71	ng/ml	100
56) #~~Aroclor-1260~~(3) NP	28.42	3410	1237693	697.35	ng/ml	100
57) #~~Aroclor-1260~~(4) NP	30.02	3602	939695	239.01	ng/ml	100
58) #~~Aroclor-1260~~(5) NP	32.00	3840	669627	269.64	ng/ml	100

Compound uses ESTD

E Price
7/10/96

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S4

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Matrix: (soil/water) SOIL Lab Sample ID: 238541

Sample wt/vol: 30.5 (g/mL) G Lab File ID: 03254

% Moisture: 7. decanted: (Y/N) N Date Received: 06/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/03/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/11/96

Injection Volume: 1.0 (uL) Dilution Factor: 3.0

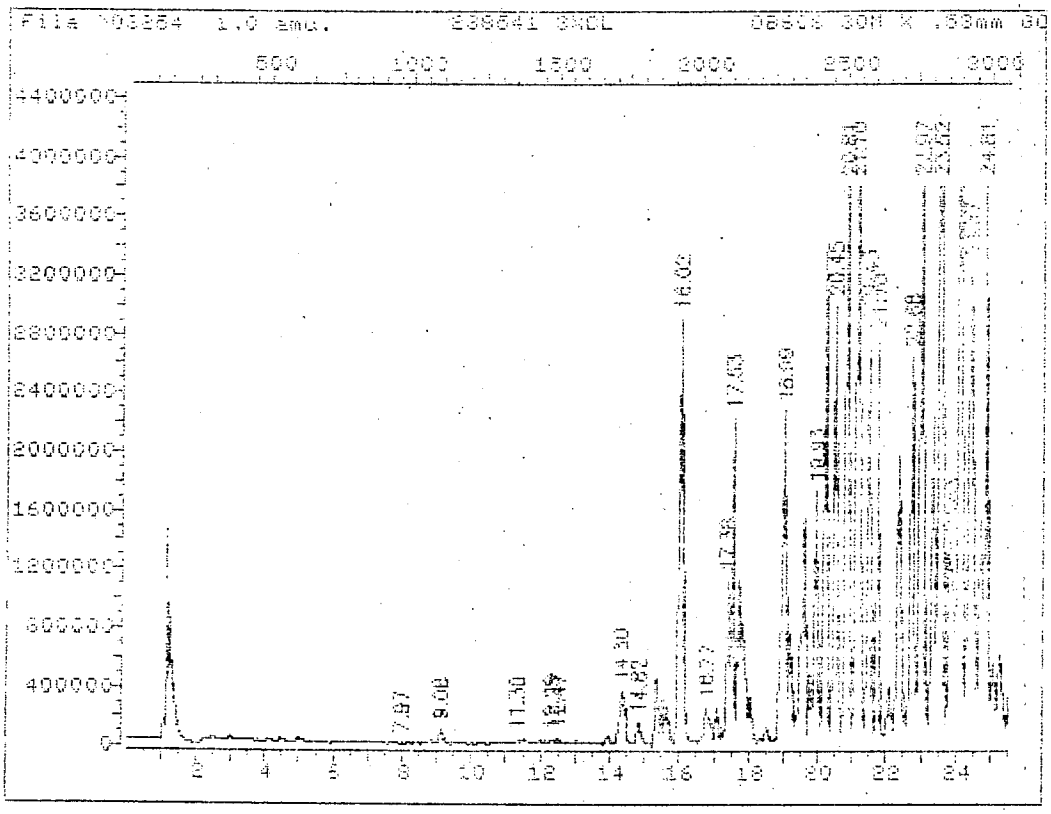
GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

Use these data

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	5.4	U
319-85-7	beta-BHC	5.4	U
319-86-8	delta-BHC	5.4	U
58-89-9	gamma-BHC (Lindane)	5.4	U
76-44-8	Heptachlor	5.4	U
309-00-2	Aldrin	5.4	U
1024-57-3	Heptachlor epoxide	5.4	U
959-98-8	Endosulfan I	5.4	U
60-57-1	Dieldrin	11.	U
72-55-9	4,4'-DDE	11.	U
72-20-8	Endrin	11.	U
33213-65-9	Endosulfan II	11.	U
72-54-8	4,4'-DDD	11.	U
1031-07-8	Endosulfan Sulfate	11.	U
50-29-3	4,4'-DDT	11.	U
72-43-5	Methoxychlor	54.	U
53494-70-5	Endrin ketone	11.	U
7421-93-4	Endrin aldehyde	11.	U
5103-71-9	alpha-Chlordane	5.4	U
5103-74-2	gamma-Chlordane	5.4	U
8001-35-2	Toxaphene	540.	U
12674-11-2	Aroclor-1016	110.	U
11104-28-2	Aroclor-1221	210.	U
11141-16-5	Aroclor-1232	110.	U
53469-21-9	Aroclor-1242	110.	U
12672-29-6	Aroclor-1248	110.	U
11097-69-1	Aroclor-1254	~~7900.~~ 16000	~~EP~~ D*
11096-82-5	Aroclor-1260	110.	U

D* value transferred from diluted analysis S4 DL 30 x D/F

FORM I PEST OLM03.0

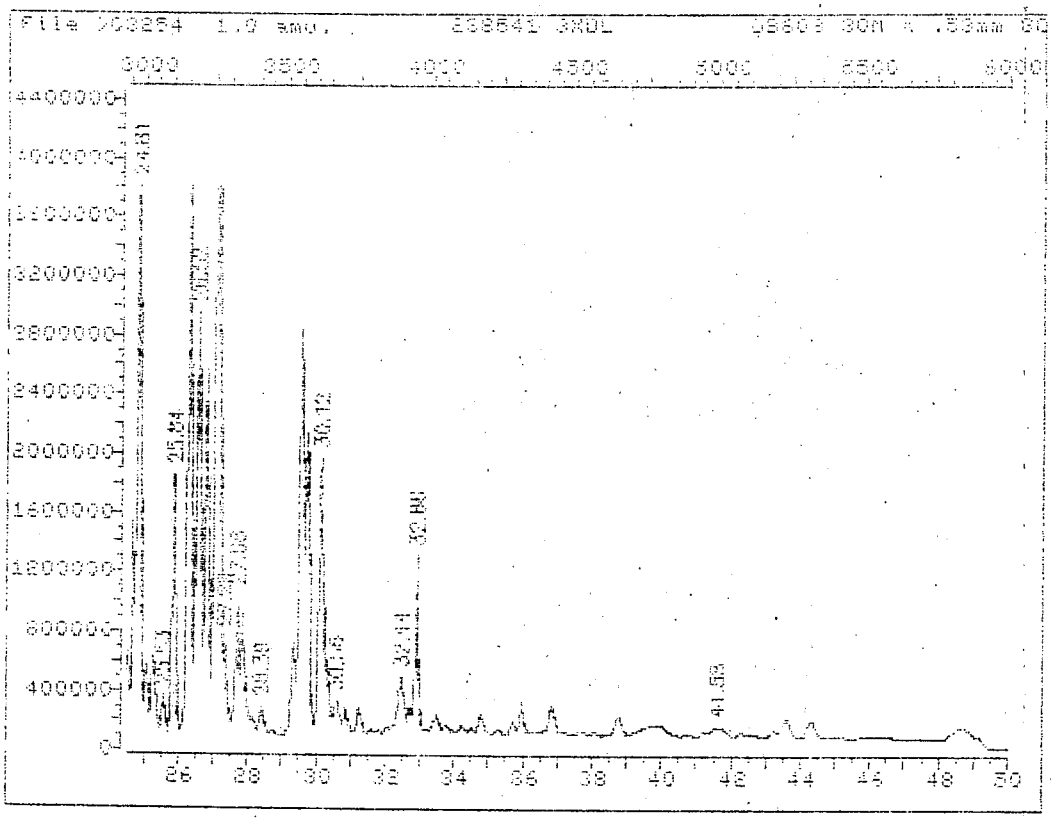


Data File: ^03254::G3 Quant Output File: ^03254::G0
Name: 238541 3XDL Instrument ID: GC03
Misc: DB608 30M X .53mm 3C38903 1ul inj.

Id File: IDCAP1::SC
Title: Capillary Column 32 SCB
Last Calibration: 941029 10:07 Last Stat Time: 960702 00:13

Operator ID: TRFIZ
Quant Time : 960712 15:16
Injected at: 960711 02:42

Page 1 of 2

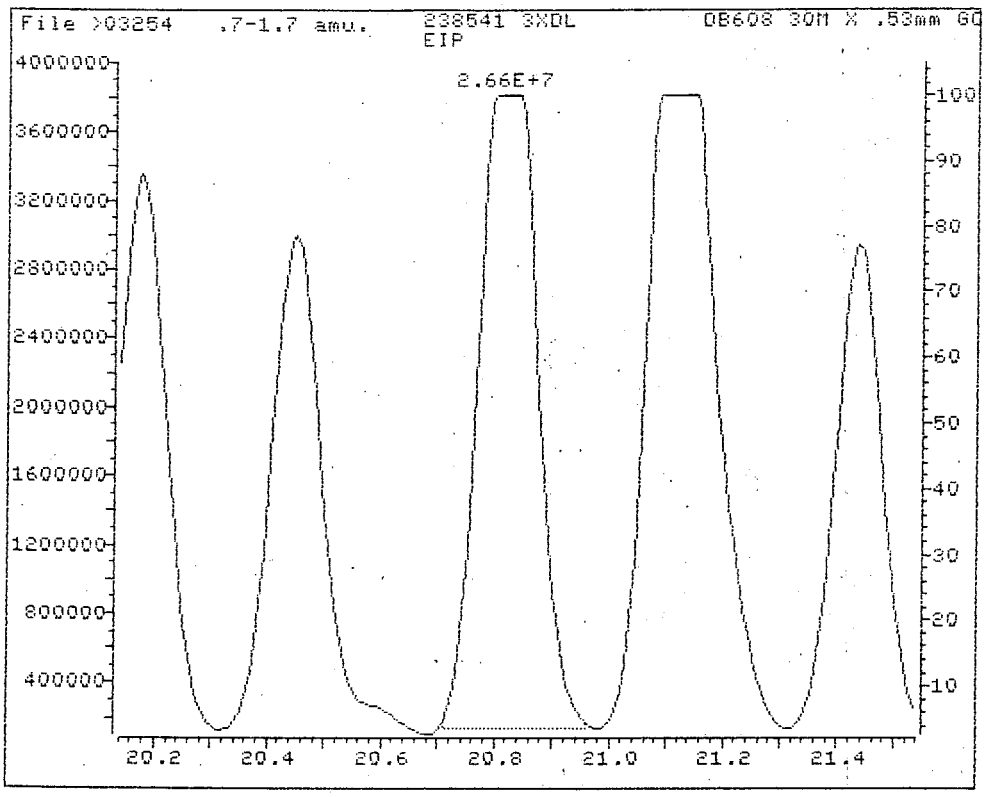


Data File: >03254::03 Quant Output File: ^03254::CQ
Name: 238541 3XDL Instrument ID: GC03
Misc: DB608 30M X .53mm 0053903 1ul inj.

Id File: IDCAP1::SC
Title: Capillary Column DB 609
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Operator ID: TRFIZ
Quant Time : 960712 13:16
Injected at: 960711 02:42

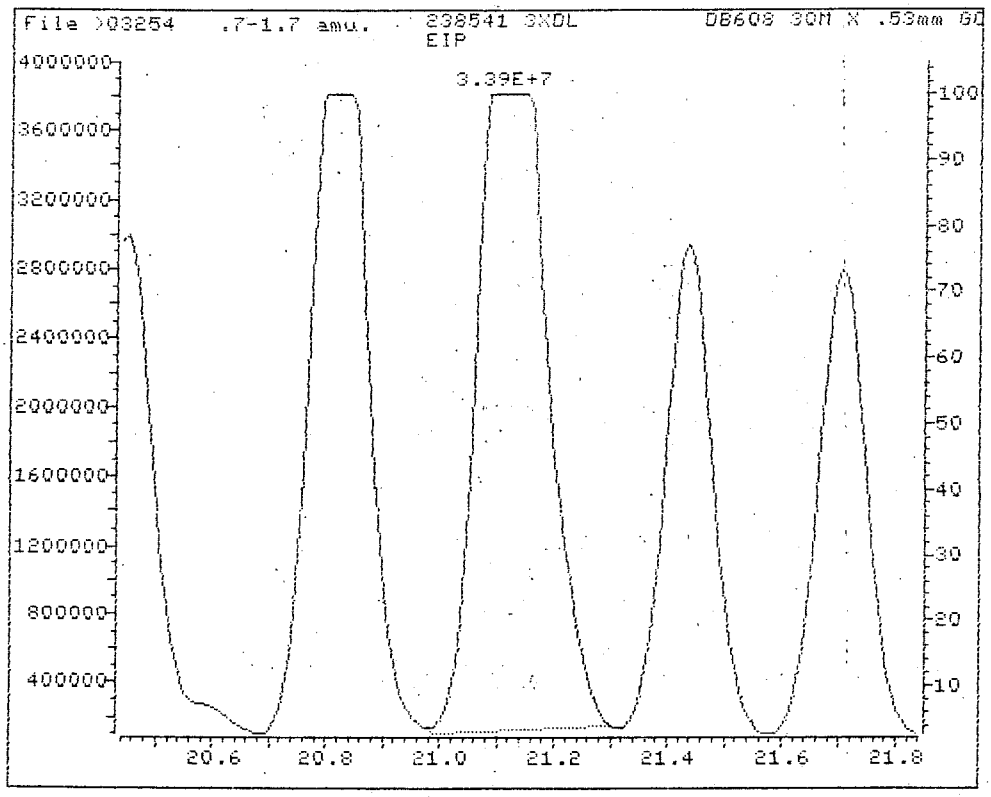
Page 2 of 2



Data File: >03254::G3 Quant Output File: ^03254::GQ
Name: 238541 3XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.
Quant Time: 960712 13:16 Quant ID File: IDCAP1::SC
Injected at: 960711 02:42 Last Calibration: 941029 10:07

Compound No: 28
Compound Name: Aroclor-1254(1)
Scan Number: 2497
Retention Time: 20.81 min.
Quant Ion: 1.0
Area: 26595360M
Concentration: 5609.12 ng/ml
q-value: 100

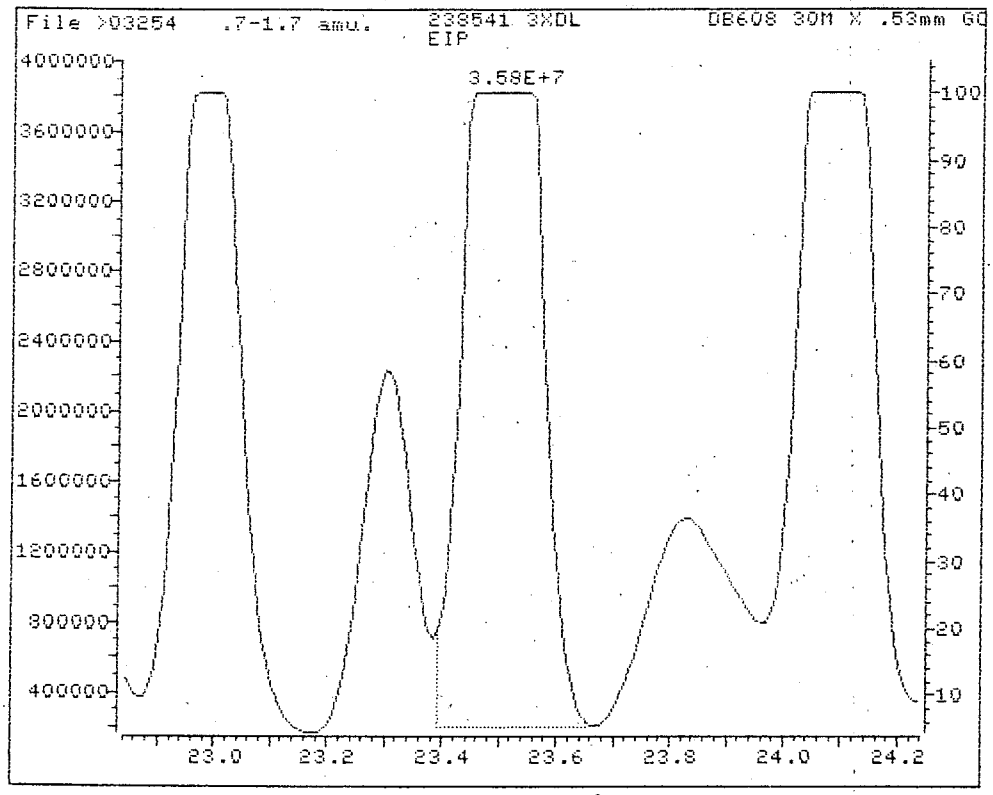
This report was produced by QAREA on: 960714 15:19



Data File: >03254::G3 Quant Output File: ^03254::GQ
Name: 238541 3XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.
Quant Time: 960712 13:16 Quant ID File: IDCAP1::SC
Injected at: 960711 02:42 Last Calibration: 941029 10:07

Compound No: 51
Compound Name: Aroclor-1254(2)
Scan Number: 2532
Retention Time: 21.10 min.
Quant Ion: 1.0
Area: 33883560M
Concentration: 6114.10 ng/ml

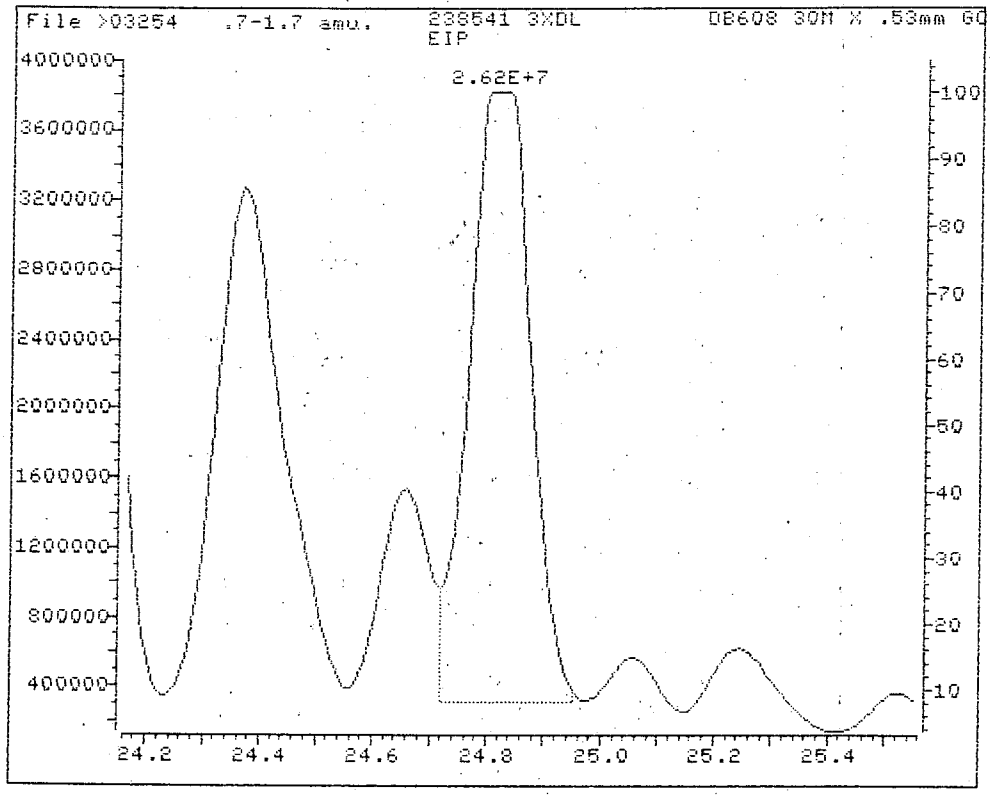
This report was produced by QAREA on: 960714 15:17



Data File: >03254::G3 Quant Output File: ^03254::GQ
Name: 238541 3XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.
Quant Time: 960712 13:16 Quant ID File: IDCAP1::SC
Injected at: 960711 02:42 Last Calibration: 941029 10:07

Compound No: 53
Compound Name: Aroclor-1254(4)
Scan Number: 2822
Retention Time: 23.52 min.
Quant Ion: 1.0
Area: 35847088M
Concentration: 5904.56 ng/ml
q-value: 100

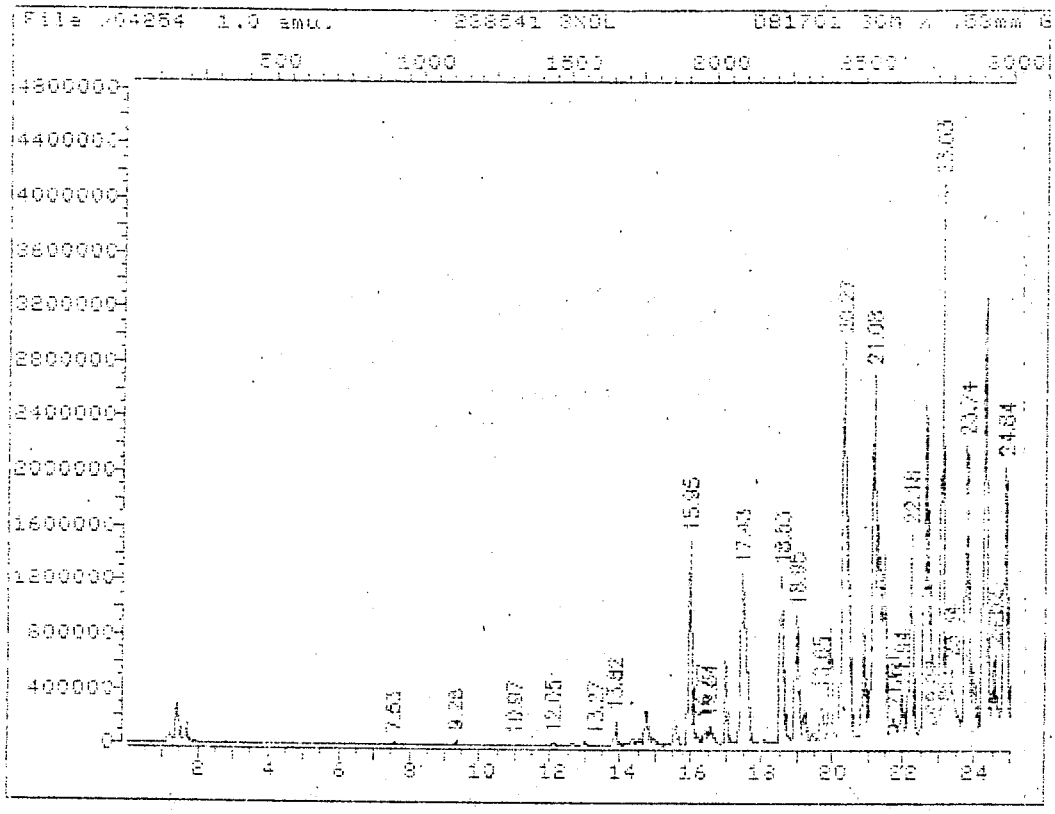
This report was produced by QAREA on: 960714 15:22



Data File: >03254::G3 Quant Output File: ^03254::GQ
Name: 238541 3XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.
Quant Time: 960712 13:16 Quant ID File: IDCAP1::SC
Injected at: 960711 02:42 Last Calibration: 941029 10:07

Compound No: 54
Compound Name: Aroclor-1254(5)
Scan Number: 2977
Retention Time: 24.81 min.
Quant Ion: 1.0
Area: 26151948M
Concentration: 7293.56 ng/ml
q-value: 100

This report was produced by QAREA on: 960714 15:24

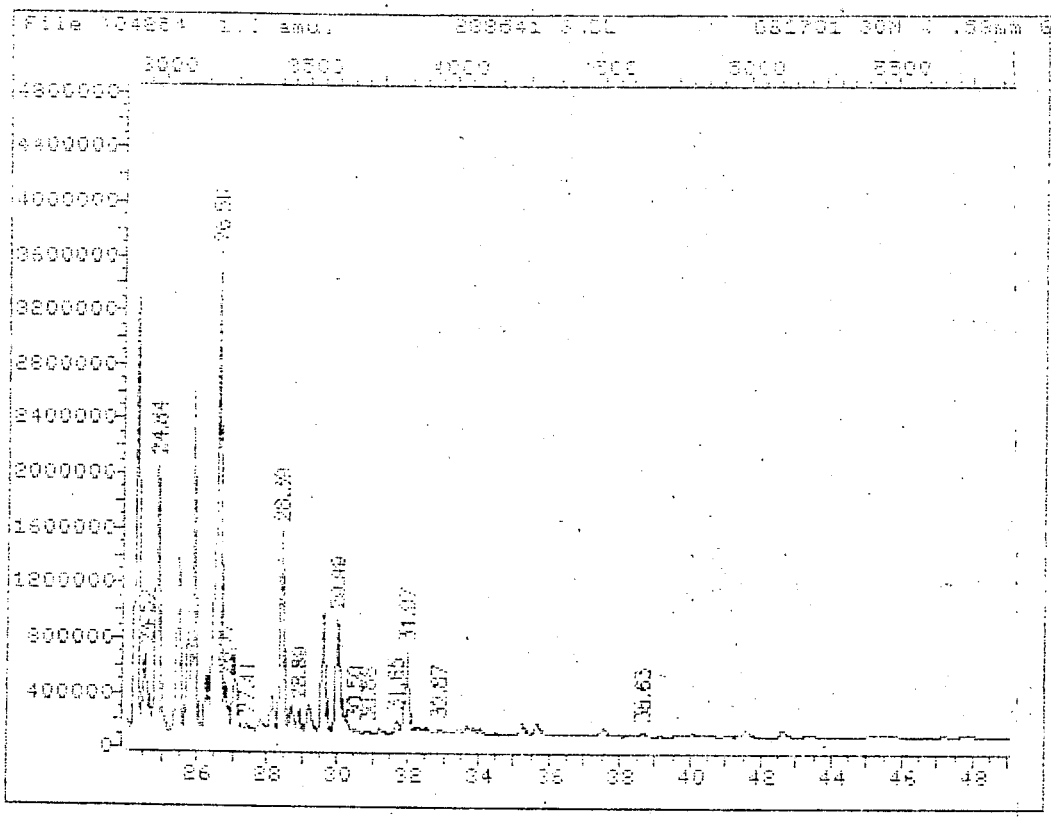


Data File: >04254::G1 Quant Output File: >04254::GQ
Name: 238541 5XDL Instrument ID: GC04
Misc: DB1701 30M x .53mm GC38905 1ul inj.

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Spe. Time: 960701 21:23

Operator ID: TRFI2
Quant Time : 960712 13:33
Injected at: 960711 02:42

Page 1 of 2



Data File: >04254::01 Quant Output File: ^04254::CQ
Name: 238541 3XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm 6158905 1ul inj.

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941027 10:07 Last Qual Time: 960701 21:23

Operator ID: TRFI2
Quant Time : 960712 13:33
Injected at: 960711 02:42

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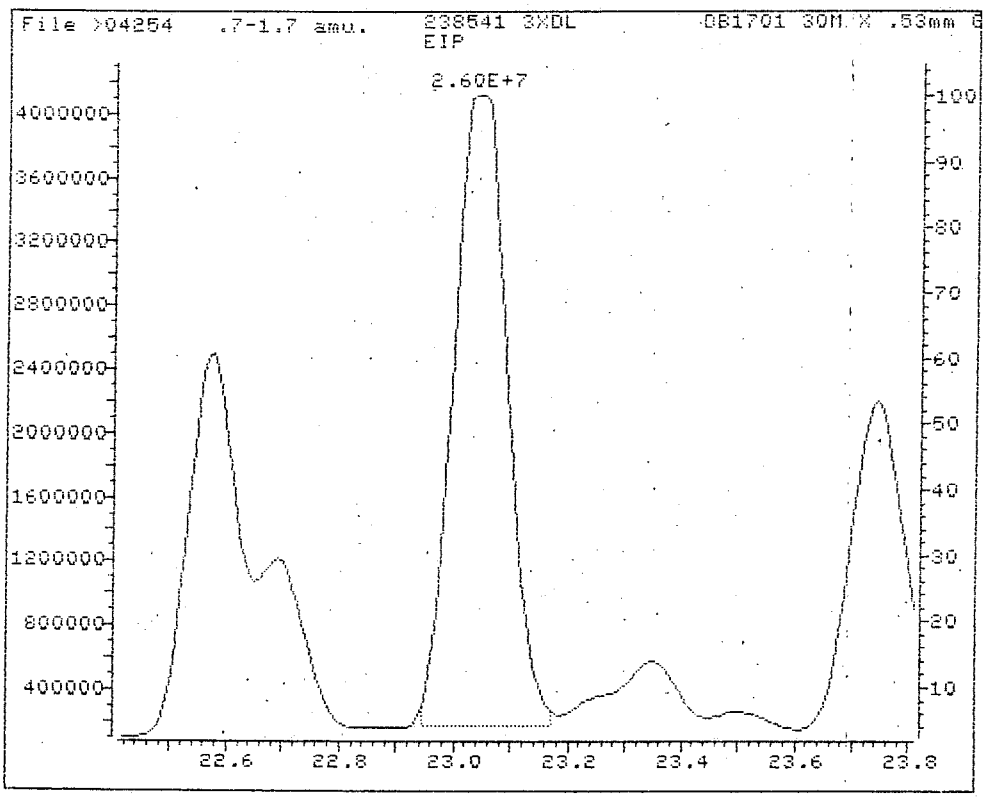

Data File: >04254::G1 Quant Output File: ^04254::GQ
Name: 238541 3XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm GC58903 1ul inj.
Quant Time: 960712 13:33 Quant ID File: IDCAP2::SC
Injected at: 960711 02:42 Last Calibration: 941029 10:07

Compound No: 53
Compound Name: Aroclor-1254(4)
Scan Number: 2764
Retention Time: 23.03 min.
Quant Ion: 1.0
Area: 25950188M
Concentration: 10177.74 ng/ml

This report was produced by QAREA on: 960714 15:27

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 15:16
Output File: 103254.SC Interest at: 960711 02:42
Data File: 103254.SC3 Dilution Factor: 1.00000
Name: 23854. FXDL Instrument ID: SC03
Mass: DB608 30M X..53mm (1.0 Sol.Inj.)

ID File: IDCAP1.SC
Title: Capillary Column DB 608
Last Calibration: 941027 10:07 Last Int Time: 960702 00:13

	Compound	R.T	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.08	1090	686454	5.49	ng/ml	100
2)	~~#alpha BHC~~	12.47	1496	1036[illegible]	1.24	ng/ml	100
3)	~~#beta BHC~~	14.82	1778	988189	12.04	ng/ml	100
5)	~~#gamma BHC (Lindane)~~	14.50	1716	2429[illegible]	17.78	ng/ml	100
6)	~~#Heptachlor~~	16.02	1922	22197552	284.49	ng/ml	100
7)	~~#Aldrin~~	17.56	2085	3088171	45.18	ng/ml	100
8)	~~#Heptachlor epoxide~~	19.93	2391	9122170	85.05	ng/ml	100
9)	~~#Endosulfan I~~	21.70	2604	15901940	130.51	ng/ml	100
10)	~~#Dieldrin~~	22.97	2756	3753418	39.70	ng/ml	100
11)	~~#4,4' DDE~~	22.97	2756	3753418	41.03	ng/ml	100
12)	~~#Endrin~~	24.81	2977	2295620	26.82	ng/ml	100
13)	~~#Endosulfan II~~	25.84	3101	12265[illegible]	127.35	ng/ml	100
14)	~~#4,4' DDD~~	25.53	3063	1683988	29.24	ng/ml	100
15)	~~#Endosulfan Sulfate~~	28.39	3406	1333975	15.05	ng/ml	100
16)	~~#4,4' DDT~~	27.29	3274	3244973	50.06	ng/ml	100
17)	~~#Methoxychlor~~	32.44	3893	4192250	107.98	ng/ml	100
18)	~~#Endrin ketone~~	32.08	3945	5616518	106.81	ng/ml	100
19)	#Decachlorobiphenyl	41.58	4990	15623[illegible]	13.05	ng/ml	100
20)	~~#alpha Chlordane~~ NT	21.43	2572	16488150	120.07	ng/ml	100
21)	~~#gamma Chlordane~~ NT	20.81	2497	4363[illegible]	37.03	ng/ml	100
22)	~~#Toxaphene(1)~~ NP	23.83	2859	12694530	7915.65	ng/ml	100
23)	~~#Aroclor 1016(1)~~ NP	12.29	1475	166163	56.52	ng/ml	100
24)	~~#Aroclor 1221(1)~~ NP	7.97	956	56020	66.06	ng/ml	100
25)	~~#Aroclor 1232(1)~~ NP	12.29	1475	166163	58.00	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.29	1475	166163	63.71	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	16.02	1922	22110896	2921.95	ng/ml	100
28)	#Aroclor-1254(1)	20.81	2497	26595360M	5609.12	ng/ml	100
29)	~~#Aroclor 1260(1)~~ NP	24.37	2924	24101772	3109.08	ng/ml	100
30	~~Toxaphene [illegible]~~ NT	27.68	3321	6949511	88.10	ng/ml	100
31)	~~#Toxaphene(2)~~	27.68	3321	6949511	3776.50	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	28.39	3406	1333975	533.70	ng/ml	100
33)	~~#Toxaphene(4)~~	30.56	3667	1505012	780.68	ng/ml	100
34)	~~#Aroclor 1016(2)~~	14.50	1716	2429443	571.65	ng/ml	100
35)	~~#Aroclor-1016(3)~~	16.02	1922	22110896	2001.76	ng/ml	100
36)	~~#Aroclor 1016(4)~~ NP	16.77	2012	1616006	432.72	ng/ml	100
37)	~~#Aroclor 1016(5)~~	19.99	2279	17469523	5141.63	ng/ml	100
38)	~~#Aroclor 1221(2)~~ NP	11.30	1356	161735	96.25	ng/ml	100
39)	~~#Aroclor 1221(3)~~ NP	12.29	1475	166163	43.54	ng/ml	100
40)	~~#Aroclor-1232(2)~~ NP	14.30	1716	2429443	860.88	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	16.02	1922	22110896	4699.82	ng/ml	100

EBrill
7/13/96

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 13:16
Output File: *03254::GQ Injected at: 960711 02:42
Data File: >03254::G3. Dilution Factor: 1.00000
Name: 279541 PXDL Instrument ID: GC05
Misc: 02:02 30M X .53mm.0252902 ul inj.

ID File: IDCAP1::GC
Title: Capillary Column GC 608
Last Calibration: 941029 10:07 Last Qual Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
42)	~~#Aroclor-1232(4)~~ NP	16.77	2012	1616006	938.59	ng/ml	100
43)	~~#Aroclor-1242(2)~~	14.30	1716	2429143	451.57	ng/ml	100
44)	~~#Aroclor-1242(3)~~	16.02	1922	22110996	2480.65	ng/ml	100
45)	~~#Aroclor-1242(4)~~ NP	16.77	2012	1616006	510.92	ng/ml	100
46)	~~#Aroclor-1242(5)~~	18.99	2279	17469528	5844.68	ng/ml	100
47)	~~#Aroclor-1248(2)~~	17.53	2103	13958258	5351.40	ng/ml	100
48)	~~#Aroclor-1248(3)~~	18.99	2279	17469528	4206.85	ng/ml	100
49)	~~#Aroclor-1248(4)~~ NP	20.45	2454	18461816	3810.46	ng/ml	100
50)	~~#Aroclor-1248(5)~~	21.70	2604	15901940	2884.30	ng/ml	100
51)	#Aroclor-1254(2)	21.10	2532	33883560M	6114.10	ng/ml	
52)	#Aroclor-1254(3)	22.68	2722	19840964	12305.24	ng/ml	100
53)	#Aroclor-1254(4)	23.52	2822	35847088M	5904.56	ng/ml	100
54)	%Aroclor-1254(5)	24.81	2977	26151948M	7293.56	ng/ml	100
55)	~~#Aroclor-1260(2)~~	24.81	2977	2295420	327.74	ng/ml	100
56)	~~#Aroclor-1260(3)~~ NP	26.52	3192	17786000	3407.12	ng/ml	100
57)	~~#Aroclor-1260(4)~~	30.12	3614	14883404	1377.50	ng/ml	100
58)	~~#Aroclor-1260(5)~~	32.88	3945	9616518	1741.81	ng/ml	100

% Compound uses ESTD

EPrice
7/13/96

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 13:33
Output File: ^04254::GC Injected at: 960711 02:42
Data File: ^04254::G1 Dilution Factor: 1.00000
Name: 2585-4, TXDL Instrument ID: GC04
Misc: DB1701 30M X .53mm 0058903 1ul inj.

ID File: ISCAF2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 19:07 Last Qual Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.28	1114	178694	4.31	ng/ml	100
2)	#~~[illegible]~~	15.27	1993	15652	.478	ng/ml	100
3)	#~~[illegible]~~	18.53	2223	3859346	337.17	ng/ml	100
4)	#~~[illegible]~~	19.63	2358	1686[illegible]	69.22	ng/ml	100
5)	#~~Heptachlor~~	16.37	1965	561475	11.84	ng/ml	100
7)	#~~Aldrin~~	17.43	2091	12818648	340.39	ng/ml	100
9)	#~~Endosulfan I~~	21.69	2603	813737	22.79	ng/ml	100
10)	#~~Dieldrin~~	23.34	2801	2649683	81.39	ng/ml	100
11)	#~~4,4'-DDE~~	22.87	2744	29546	1.06	ng/ml	100
12)	#~~Endrin~~	24.52	2942	2584605	89.16	ng/ml	100
13)	#~~Endosulfan II~~	26.77	3212	1695374	47.37	ng/ml	100
14)	#~~4,4'-DDD~~	26.56	3187	23565640	1115.22	ng/ml	100
15)	#~~Endosulfan Sulfate~~	30.50	3660	208138	7.87	ng/ml	100
16)	#~~4,4'-DDT~~	27.41	3289	322579	19.57	ng/ml	100
17)	#~~Methoxychlor~~	30.86	3703	158305	11.76	ng/ml	100
18)	#~~Endrin ketone~~	32.87	3944	196650	6.99	ng/ml	100
19)	#Decachlorobiphenyl	38.63	4636	328794	7.04	ng/ml	100
20)	#~~alpha-Chlordane~~	22.18	2662	9428511	226.08	ng/ml	100
21	~~gamma-Chlordane~~	22.94	2653	1559400	39.02	ng/ml	100
23)	#~~Aroclor-1016(2)~~	12.05	1446	62761	50.82	ng/ml	100
24)	#~~Aroclor-1221(1)~~	7.53	904	57705	72.97	ng/ml	100
25)	#~~Aroclor-1232(1)~~	7.53	904	57705	48.46	ng/ml	100
26)	#~~Aroclor-1242(1)~~	12.05	1446	62761	59.32	ng/ml	100
27)	#~~Aroclor-1248(1)~~	13.82	1659	1051385	954.51	ng/ml	100
28)	#Aroclor-1254(1)	17.43	2091	12818848	6069.07	ng/ml	100
29)	#~~Aroclor-1260(1)~~	23.74	2849	14028120	6071.91	ng/ml	100
30)	#~~Endrin aldehyde~~	28.89	3467	1123121	36.96	ng/ml	100
31)	#~~Toxaphene(1)~~	28.59	3406	1013026	14056.24	ng/ml	100
32)	#~~Toxaphene(5)~~	30.50	3660	247556	502.27	ng/ml	100
33)	#~~Toxaphene(4)~~	31.65	3798	688533	1372.15	ng/ml	100
34)	#~~Aroclor-1016(2)~~	13.82	1659	1051385	430.06	ng/ml	100
35)	#~~Aroclor-1016(3)~~	15.95	1914	9244242	2383.07	ng/ml	100
36)	#~~Aroclor-1016(4)~~	16.51	1981	984750	676.19	ng/ml	100
37)	#~~Aroclor-1016(5)~~	18.53	2223	3859346	4299.23	ng/ml	100
38)	#~~Aroclor-1221(2)~~	10.97	1317	7600	11.59	ng/ml	100
39)	#~~Aroclor-1221(3)~~	12.05	1446	62761	36.59	ng/ml	100
40)	#~~Aroclor-1232(2)~~	12.05	1446	62761	53.57	ng/ml	100
41)	#~~Aroclor-1232(3)~~	13.82	1659	1051385	1021.06	ng/ml	100
42)	#~~Aroclor-1232(4)~~	15.95	1914	9244242	5917.64	ng/ml	100
43)	#~~Aroclor-1242(2)~~	13.82	1659	1051385	529.32	ng/ml	100

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7/13/96

QUANT REPORT

Operator ID: TRF12 Quant Rev: 7 Quant Time: 960712 13:55
Output File: ^042F4.:GQ Injected at: 960711 02:42
Data File: >04254.:GI Dilution Factor: 1.00000
Name: 238541 EXDL Instrument ID: GC04
Misc: 081701 30M X 53mm SCS8705 1ul inj.

ID File: IDCAPI.:SC
Title: Capillary Column 081701
Last Calibration: 941029 10:07 Last Qual Time: 960701 21:23

Compound	R.T.	Scan#	Area	Conc	Units	q
44) ~~#Aroclor-1242(3)~~	15.95	1914	9244242	2998.29	ng/ml	100
45) ~~#Aroclor-1242(4)~~ NP	16.51	1981	984779	861.56	ng/ml	100
46) ~~#Aroclor-1242(5)~~	17.45	2091	12818848	16200.96	ng/ml	100
47) ~~#Aroclor-1248(2)~~	15.95	1914	9244242	3538.76	ng/ml	100
48) ~~#Aroclor-1248(3)~~	16.55	2223	3859346	3595.98	ng/ml	100
49) ~~#Aroclor-1248(4)~~ NP	18.95	2274	5977734	3387.26	ng/ml	100
50) ~~#Aroclor-1248(5)~~	20.27	2432	15825412	19613.89	ng/ml	100
51) #Aroclor-1254(2)	20.27	2432	18825412	9259.19	ng/ml	100
52) #Aroclor-1254(3)	21.08	2530	16064482	8759.21	ng/ml	100
53) #Aroclor-1254(4)	23.05	2764	25950188	M10177.74	ng/ml	
54) #Aroclor-1254(5)	25.74	2849	14028120	10343.24	ng/ml	100
55) ~~#Aroclor-1260(2)~~	24.84	2981	11500060	4235.58	ng/ml	100
56) ~~#Aroclor-1260(3)~~	28.59	3406	10130896	5708.06	ng/ml	100
57) ~~#Aroclor-1260(4)~~ NP	29.99	3598	7641832	1943.70	ng/ml	100
58) ~~#Aroclor-1260(5)~~	31.97	3836	5530780	2227.06	ng/ml	100

Compound uses ESTD

EPrui
7/13/96

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S4	DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Matrix: (soil/water) SOIL Lab Sample ID: 238541

Sample wt/vol: 30.5 (g/mL) G Lab File ID: 03222

% Moisture: 7. decanted: (Y/N) N Date Received: 06/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/03/96

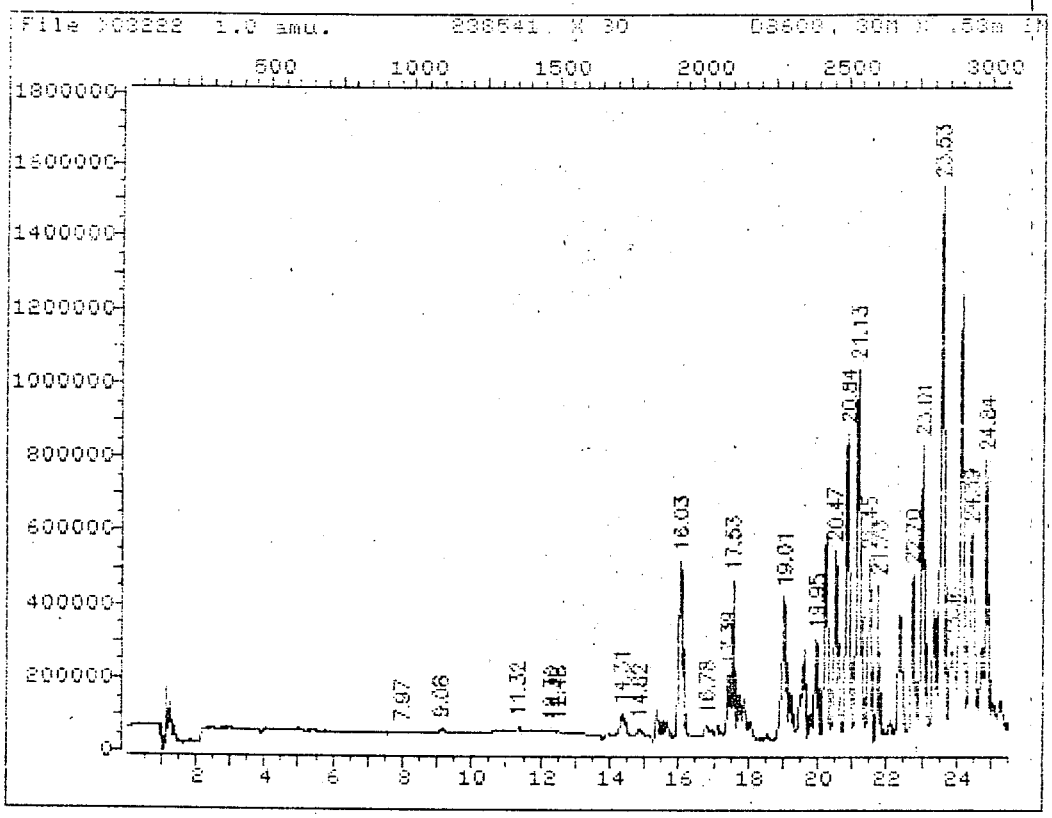
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/96

Injection Volume: 1.0 (uL) Dilution Factor: 30.0

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

Do not use these data.

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	54.	U
319-85-7	beta-BHC	54.	U
319-86-8	delta-BHC	54.	U
58-89-9	gamma-BHC (Lindane)	54.	U
76-44-8	Heptachlor	54.	U
309-00-2	Aldrin	54.	U
1024-57-3	Heptachlor epoxide	54.	U
959-98-8	Endosulfan I	54.	U
60-57-1	Dieldrin	110.	U
72-55-9	4,4'-DDE	110.	U
72-20-8	Endrin	110.	U
33213-65-9	Endosulfan II	110.	U
72-54-8	4,4'-DDD	110.	U
1031-07-8	Endosulfan Sulfate	110.	U
50-29-3	4,4'-DDT	110.	U
72-43-5	Methoxychlor	540.	U
53494-70-5	Endrin ketone	110.	U
7421-93-4	Endrin aldehyde	110.	U
5103-71-9	alpha-Chlordane	54.	U
5103-74-2	gamma-Chlordane	54.	U
8001-35-2	Toxaphene	5400.	U
12674-11-2	Aroclor-1016	1100.	U
11104-28-2	Aroclor-1221	2100.	U
11141-16-5	Aroclor-1232	1100.	U
53469-21-9	Aroclor-1242	1100.	U
12672-29-6	Aroclor-1248	1100.	U
11097-69-1	Aroclor-1254	16000.	D
11096-82-5	Aroclor-1260	1100.	U



Data File: >03222::G3 Quant Output File: ^03222::F3
Name: 238541 X 30 Instrument ID: GC03
Misc: DB608, 30M X .53m INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qual Time: 960702 00:13

Operator ID: TRFIL
Quant Time : 960709 21:54
Injected at: 960709 19:21

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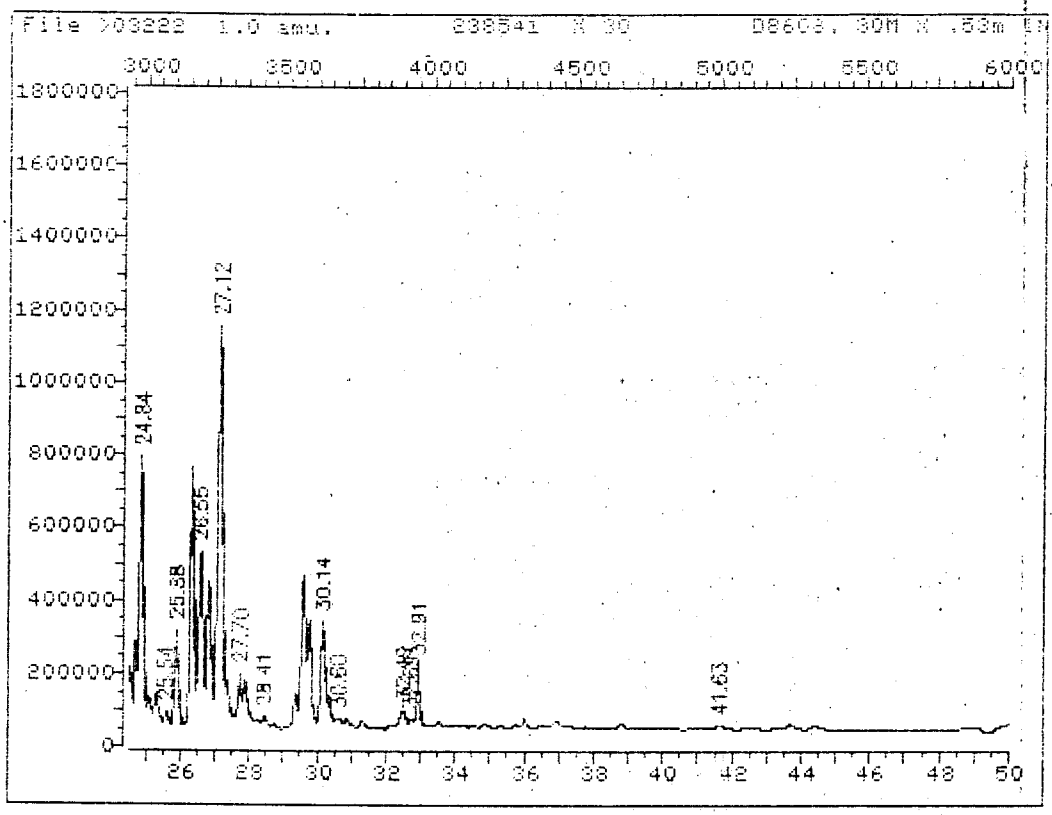

Data File: >03222::G3 Quant Output File: ^03222::F3
Name: 238541 X 30 Instrument ID: GC03
Misc: DB608, 30M X .53m INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Operator ID: TRFIL
Quant Time : 960709 21:54
Injected at: 960709 19:21

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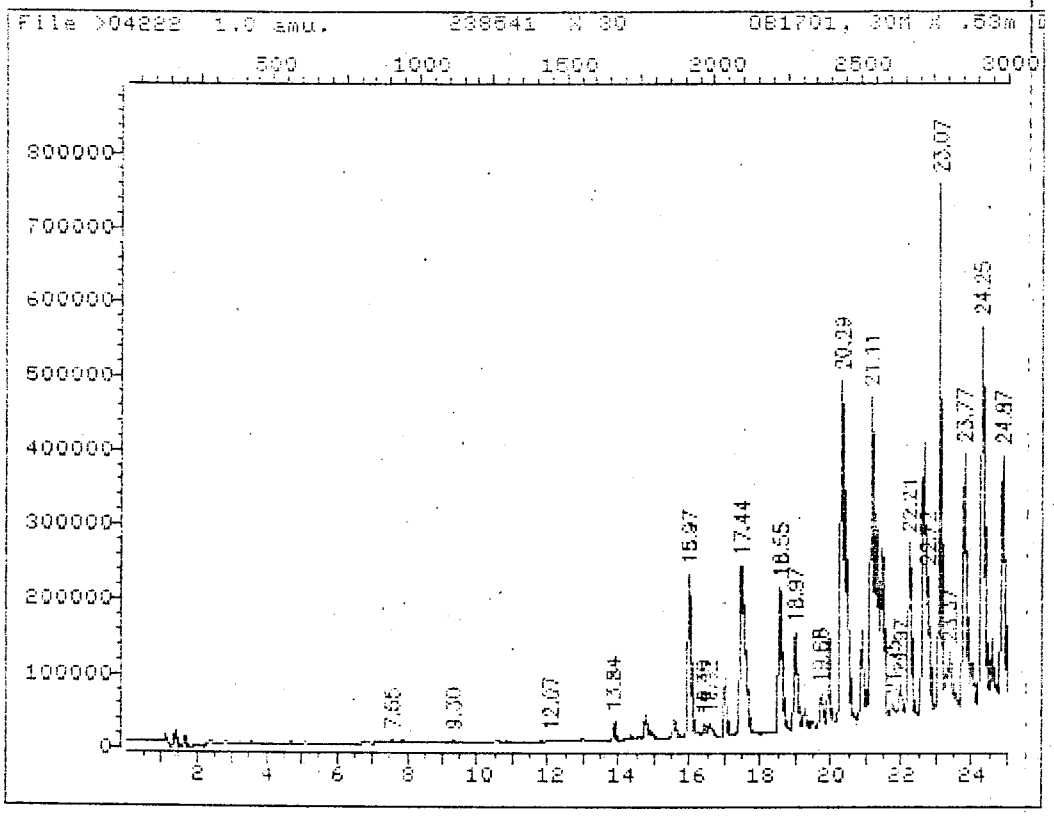

Data File: >04222::G1 Quant Output File: ^04222::F3
Name: 238541 X 30 Instrument ID: GC04
Misc: DB1701. 30M X .53m INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

Operator ID: TRFIL
Quant Time : 960709 21:56
Injected at: 960709 19:21

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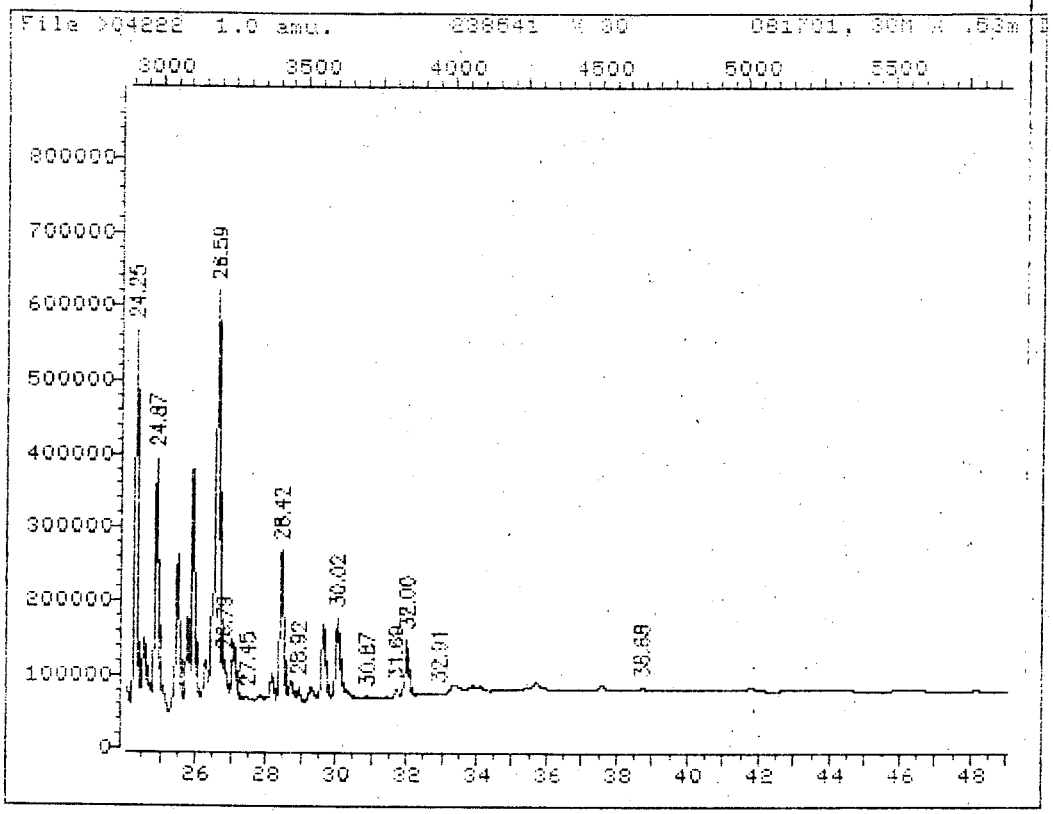

Data File: >04222::G1 Quant Output File: ^04222::F3
Name: 238541 X 30 Instrument ID: GC04
Misc: DB1701, 30M X .53m INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qual Time: 960701 21:23

Operator ID: TRFIL
Quant Time : 960709 21:56
Injected at: 960709 19:21

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QUANT REPORT

Operator ID: TRFIL
Output File: ^03222::F3
Data File: >03222::G3
Name: 238541 X 30
Misc: DB608. 30M X .53m INST 58903. 1ul INJ

S4DL

Quant Rev: 7
Quant Time: 960709 21:54
Injected at: 960709 19:21
Dilution Factor: 1.00000
Instrument ID: GC03

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07
Last Qcal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.08	1090	52031	.416	ng/ml	100
2)	~~#alpha BHC~~	12.48	1498	29235	.197	ng/ml	100
3)	~~#beta BHC~~	14.82	1779	507141	6.18	ng/ml	100
5)	~~#gamma BHC (Lindane)~~	14.31	1717	369740	2.71	ng/ml	100
6)	~~#Heptachlor~~	16.03	1924	3908536	50.09	ng/ml	100
7)	~~#Aldrin~~	17.39	2087	929097	6.89	ng/ml	100
8)	~~#Heptachlor epoxide~~	19.95	2394	1457365	13.27	ng/ml	100
9)	~~#Endosulfan-I~~	21.73	2607	2769507	22.73	ng/ml	100
10)	~~#Dieldrin~~	23.01	2761	4853916	51.34	ng/ml	100
11)	~~#4,4'-DDE~~	22.70	2724	3300419	36.08	ng/ml	100
12)	~~#Endrin~~	24.84	2981	4863230	56.82	ng/ml	100
13)	~~#Endosulfan II~~	25.88	3105	1829401	18.99	ng/ml	100
14)	~~#4,4'-DDD~~	25.54	3065	292262	5.07	ng/ml	100
15)	~~#Endosulfan Sulfate~~	28.41	3409	205271	2.32	ng/ml	100
16)	~~#4,4'-DDT~~	27.12	3254	8329470	128.51	ng/ml	100
17)	~~#Methoxychlor~~	32.49	3898	619464	15.96	ng/ml	100
18)	~~#Endrin ketone~~	32.69	3923	146811	1.63	ng/ml	100
19)	#Decachlorobiphenyl	41.63	4995	195196	1.63	ng/ml	100
20)	~~#alpha Chlordane~~ NT	21.45	2574	2931798	21.35	ng/ml	100
21)	~~#gamma Chlordane~~ NT	20.84	2501	5175448	43.92	ng/ml	100
22)	~~#Toxaphene(1)~~ NP	23.86	2863	1914089	1193.53	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.30	1476	25903	8.81	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	7.97	957	10280	12.12	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	12.30	1476	25903	9.04	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.30	1476	25903	9.93	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	16.03	1924	3835038	506.80	ng/ml	100
28)	#Aroclor-1254(1)	20.84	2501	5175448	1091.53	ng/ml	100
29)	~~#Aroclor-1260(1)~~	24.39	2927	4010304	517.32	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	27.70	3324	989252	12.54	ng/ml	100
31)	~~#Toxaphene(2)~~ NP	27.70	3324	981330	533.29	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	28.41	3409	205271	82.13	ng/ml	100
33)	~~#Toxaphene(4)~~ NP	30.60	3672	151423	78.55	ng/ml	100
34)	~~#Aroclor-1016(2)~~ NP	14.31	1717	369740	56.56	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	16.03	1924	3835038	347.20	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.78	2014	232262	62.19	ng/ml	100
37)	~~#Aroclor-1016(5)~~ NP	19.01	2281	2935126	863.87	ng/ml	100
38)	~~#Aroclor-1221(2)~~ NP	11.32	1358	99768	59.38	ng/ml	100
39)	~~#Aroclor-1221(3)~~ NP	12.30	1476	25903	6.79	ng/ml	100
40)	~~#Aroclor-1232(2)~~ NP	14.31	1717	369740	131.02	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	16.03	1924	3835038	815.16	ng/ml	100

EBrin
7/10/96

QUANT REPORT

Operator ID: TRFIL Quant Rev: 7 Quant Time: 960709 21:54
Output File: ^03222::F3 Injected at: 960709 19:21
Data File: >03222::G3 Dilution Factor: 1.00000
Name: 238541 X 30 Instrument ID: GC03
Misc: DB608, 30M X .53m INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
42)	~~#Aroclor-1232(4)~~ NP	16.78	2014	232262	134.90	ng/ml	100
43)	~~#Aroclor-1242(2)~~ NP	14.31	1717	369740	68.69	ng/ml	100
44)	~~#Aroclor-1242(3)~~ NP	16.03	1924	3835038	430.26	ng/ml	100
45)	~~#Aroclor-1242(4)~~ NP	16.78	2014	232262	73.43	ng/ml	100
46)	~~#Aroclor-1242(5)~~ NP	19.01	2281	2935126	981.99	ng/ml	100
47)	~~#Aroclor-1248(2)~~ NP	17.53	2104	2699469	1034.94	ng/ml	100
48)	~~#Aroclor-1248(3)~~ NP	19.01	2281	2935126	706.81	ng/ml	100
49)	~~#Aroclor-1248(4)~~ NP	20.47	2456	3060312	631.64	ng/ml	100
50)	~~#Aroclor-1248(5)~~ NP	21.73	2607	2769507	502.33	ng/ml	100
51)	#Aroclor-1254(2)	21.13	2536	6780101	1223.43	ng/ml	100
52)	#Aroclor-1254(3)	22.70	2724	3300419	2046.90	ng/ml	100
53)	#Aroclor-1254(4)	23.53	2823	9571528	1576.57	ng/ml	100
54)	#Aroclor-1254(5)	24.84	2981	4863230	1356.31	ng/ml	100
55)	~~#Aroclor-1260(2)~~ NP	24.84	2981	4863230	694.31	ng/ml	100
56)	~~#Aroclor-1260(3)~~ NP	26.55	3186	3548014	679.66	ng/ml	100
57)	~~#Aroclor-1260(4)~~ NP	30.14	3617	2232920	206.66	ng/ml	100
58)	~~#Aroclor-1260(5)~~ NP	32.91	3949	1417798	256.80	ng/ml	100

Compound uses ESTD

EBrui
7/10/96

QUANT REPORT

Operator ID: TRFIL
Quant Rev: 7
Quant Time: 960709 21:56
Output File: ^04222::F3
Injected at: 960709 19:21
Data File: >04222::G1
Dilution Factor: 1.00000
Name: 238541 X 30
Instrument ID: GC04
Misc: DB1701, 30M X .53m INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07
Last Qcal Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.30	1116	24146	.583	ng/ml	100
3)	~~#beta-BHC~~	18.55	2226	1376225	52.38	ng/ml	100
4)	~~#delta-BHC~~	19.68	2362	313599	12.87	ng/ml	100
6)	~~#Heptachlor~~	16.39	1967	74698	1.57	ng/ml	100
7)	~~#Aldrin~~	17.44	2093	2274360	60.39	ng/ml	100
9)	~~#Endosulfan I~~	21.75	2610	88914	2.49	ng/ml	100
10)	~~#Dieldrin~~	23.37	2804	618276	19.04	ng/ml	100
11)	~~#4,4'-DDE~~	22.72	2726	938493	33.81	ng/ml	100
12)	~~#Endrin~~	24.25	2910	3553302	122.58	ng/ml	100
13)	~~#Endosulfan II~~	26.79	3215	330053	9.22	ng/ml	100
14)	~~#4,4'-DDD~~	26.59	3191	4859555	229.97	ng/ml	100
16)	~~#4,4'-DDT~~	27.45	3294	27616	1.68	ng/ml	100
17)	~~#Methoxychlor~~	30.87	3704	27138	2.02	ng/ml	100
18)	~~#Endrin ketone~~	32.91	3949	23101	.820	ng/ml	100
19)	#Decachlorobiphenyl	38.68	4642	34811	.745	ng/ml	100
20)	~~#alpha-Chlordane~~ NT	22.21	2665	1450150	34.77	ng/ml	100
21)	~~#gamma-Chlordane~~ NT	21.97	2636	203428	5.09	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.07	1448	5299	4.29	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	7.55	906	16537	20.91	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	7.55	906	16537	13.89	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.07	1448	5299	5.01	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	13.84	1661	140593	127.64	ng/ml	100
28)	#Aroclor-1254(1)	17.44	2093	2274360	1431.64	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	23.77	2852	2332515	1009.60	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	28.92	3470	166473	5.48	ng/ml	100
31)	~~#Toxaphene(2)~~ NP	28.42	3410	1442117	2000.88	ng/ml	100
33)	~~#Toxaphene(4)~~ NP	31.69	3802	81112	161.64	ng/ml	100
34)	~~#Aroclor-1016(2)~~ NP	13.84	1661	140593	57.51	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	15.97	1916	1383297	356.60	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.52	1983	126547	86.90	ng/ml	100
37)	~~#Aroclor-1016(5)~~ NP	18.55	2226	1376225	667.85	ng/ml	100
39)	~~#Aroclor-1221(3)~~ NP	12.07	1448	5299	3.09	ng/ml	100
40)	~~#Aroclor-1232(2)~~ NP	12.07	1448	5299	4.52	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	13.84	1661	140593	136.54	ng/ml	100
42)	~~#Aroclor-1232(4)~~ NP	15.97	1916	1383297	885.51	ng/ml	100
43)	~~#Aroclor-1242(2)~~ NP	13.84	1661	140593	70.78	ng/ml	100
44)	~~#Aroclor-1242(3)~~ NP	15.97	1916	1383297	448.66	ng/ml	100
45)	~~#Aroclor-1242(4)~~ NP	16.52	1983	126547	110.72	ng/ml	100
46)	~~#Aroclor-1242(5)~~ NP	17.44	2093	2274360	2874.42	ng/ml	100
47)	~~#Aroclor-1248(2)~~ NP	15.97	1916	1383297	529.54	ng/ml	100

EPui
7/10/96

QUANT REPORT

Operator ID: TRFIL Quant Rev: 7 Quant Time: 960709 21:56
Output File: ^04222::F3 Injected at: 960709 19:21
Data File: >04222::G1 Dilution Factor: 1.00000
Name: 58541 X 30 Instrument ID: GC04
Misc: DB1701, 30M X .53m INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
48)	~~#Aroclor-1248(3)~~ NP	18.55	2226	1376225	558.61	ng/ml	100
49)	~~#Aroclor-1248(4)~~ NP	18.97	2276	849682	481.31	ng/ml	100
50)	~~#Aroclor-1248(5)~~ NP	20.29	2435	3113392	3243.79	ng/ml	100
51)	#Aroclor-1254(2)	20.29	2435	3113392	1531.31	ng/ml	100
52)	#Aroclor-1254(3)	21.11	2533	2360955	1287.32	ng/ml	100
53)	#Aroclor-1254(4)	23.07	2768	4402414	1726.64	ng/ml	100
54)	#Aroclor-1254(5)	23.77	2852	2332515	1719.81	ng/ml	100
55)	~~#Aroclor-1260~~(2) NP	24.87	2984	2622022	965.71	ng/ml	100
56)	~~#Aroclor-1260(3)~~ NP	28.42	3410	1447557	815.60	ng/ml	100
57)	~~#Aroclor-1260(4)~~ NP	30.02	3602	926880	235.75	ng/ml	100
58)	~~#Aroclor-1260(5)~~ NP	32.00	3840	726357	292.48	ng/ml	100

Compound uses ESTD

EPrui
7/10/96

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S5

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Matrix: (soil/water) SOIL Lab Sample ID: 238545

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 03269

% Moisture: 11. decanted: (Y/N) N Date Received: 06/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/03/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/12/96

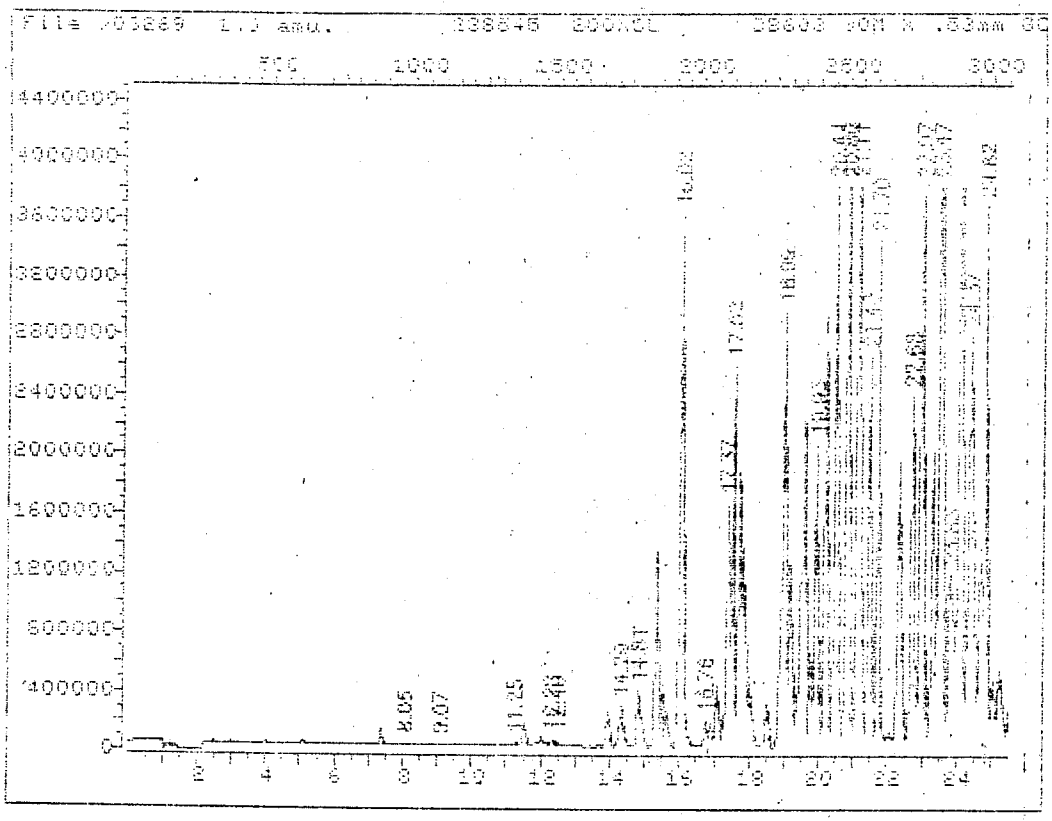
Injection Volume: 1.0 (uL) Dilution Factor: 200.0

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

Use these data.

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	380.	U
319-85-7	beta-BHC	380.	U
319-86-8	delta-BHC	380.	U
58-89-9	gamma-BHC (Lindane)	380.	U
76-44-8	Heptachlor	380.	U
309-00-2	Aldrin	380.	U
1024-57-3	Heptachlor epoxide	380.	U
959-98-8	Endosulfan I	380.	U
60-57-1	Dieldrin	740.	U
72-55-9	4,4'-DDE	740.	U
72-20-8	Endrin	740.	U
33213-65-9	Endosulfan II	740.	U
72-54-8	4,4'-DDD	740.	U
1031-07-8	Endosulfan Sulfate	740.	U
50-29-3	4,4'-DDT	740.	U
72-43-5	Methoxychlor	3800.	U
53494-70-5	Endrin ketone	740.	U
7421-93-4	Endrin aldehyde	740.	U
5103-71-9	alpha-Chlordane	380.	U
5103-74-2	gamma-Chlordane	380.	U
8001-35-2	Toxaphene	38000.	U
12674-11-2	Aroclor-1016	7400.	U
11104-28-2	Aroclor-1221	15000.	U
11141-16-5	Aroclor-1232	7400.	U
53469-21-9	Aroclor-1242	7400.	U
12672-29-6	Aroclor-1248	7400.	U
11097-69-1	Aroclor-1254	1000000 ~~520000.~~	~~E~~ D*
11096-82-5	Aroclor-1260	7400.	U

D* Value transferred from diluted analysis S5 DL 200 × D/F.



Data File: >03269::GS Quant Output File: >03269::GQ
Name: 338545 200XDL Instrument ID: GC03
Misc: DB608 30M X .53mm 6C58903 1ul inj.

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qual Time: 960702 00:15

Operator ID: TRFI2
Quant Time: 960712 15:48
Injected at: 960712 00:40

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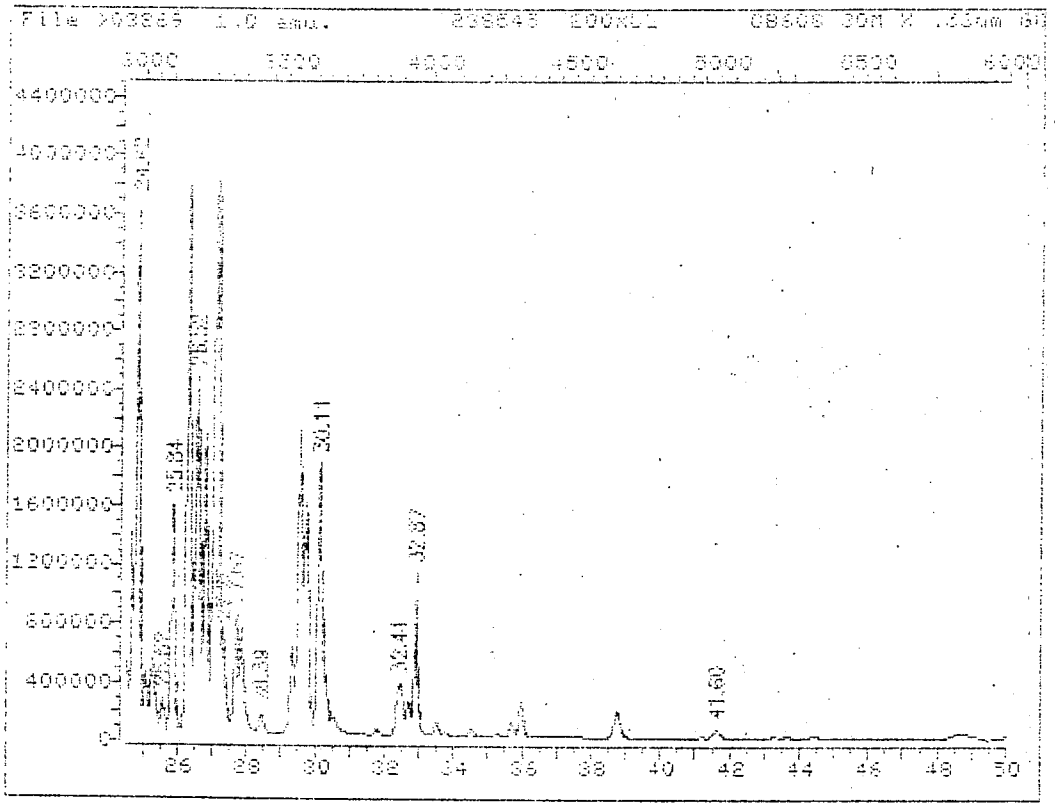

Data File: >03269::03 Quant Output File: >03269::GQ
Name: 238545 200XDL Instrument ID: GC03
Misc: DB608 30M X .53mm 3C58903 1ul inj.

Id File: IDCAP1::GC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Inst Time: 960702 00:13

Operator ID: TRFIS
Quant Time : 960712 17:48
Injected at: 960712 00:40

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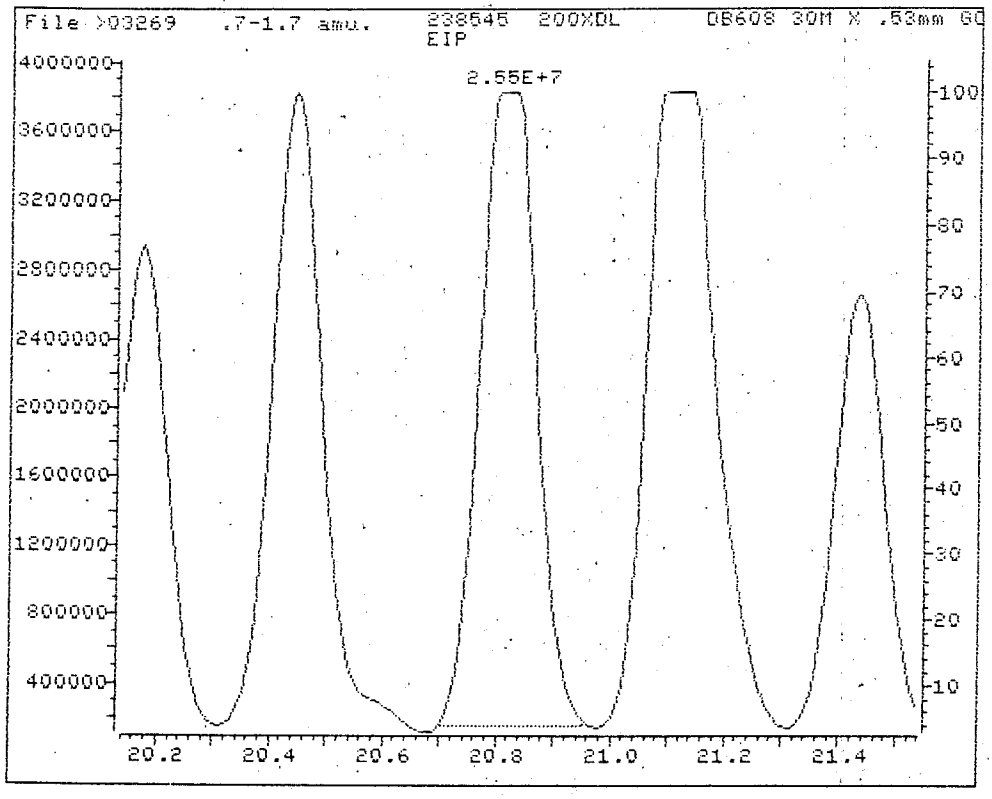
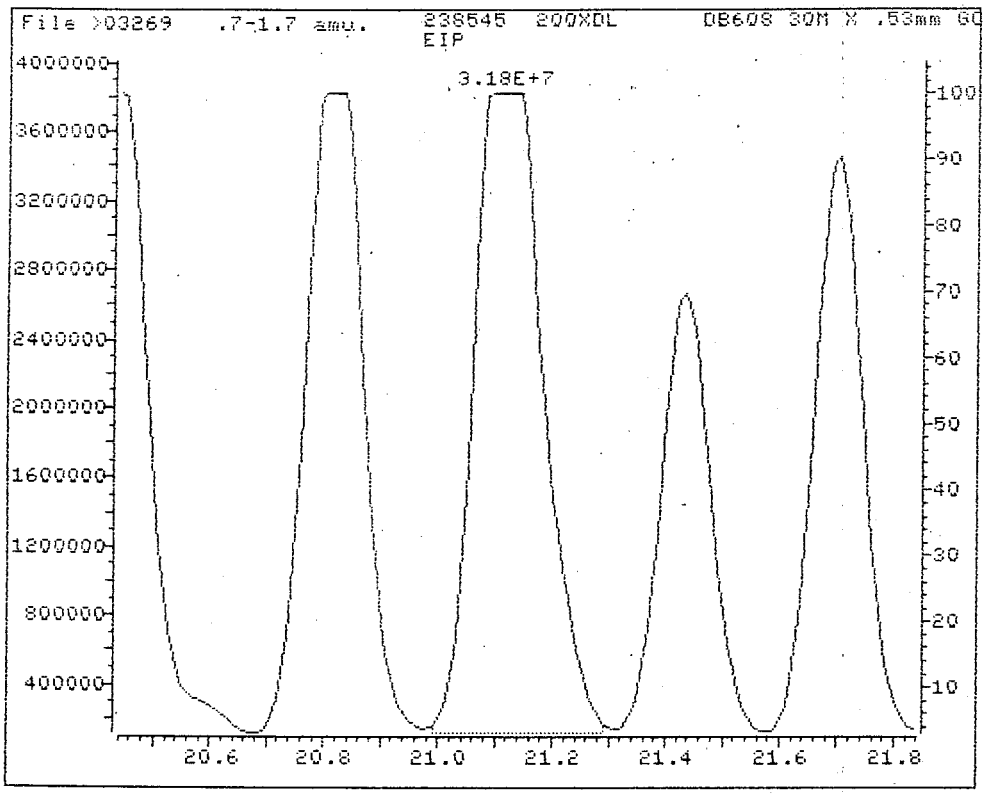


Data File: >03269::G3 Quant Output File: ^03269::GQ
Name: 238545 200XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.
Quant Time: 960712 13:48 Quant ID File: IDCAP1::SC
Injected at: 960712 00:40 Last Calibration: 941029 10:07

Compound No: 28
Compound Name: Aroclor-1254(1)
Scan Number: 2498
Retention Time: 20.82 min.
Quant Ion: 1.0
Area: 25486624M
Concentration: 5375.28 ng/ml
q-value: 100

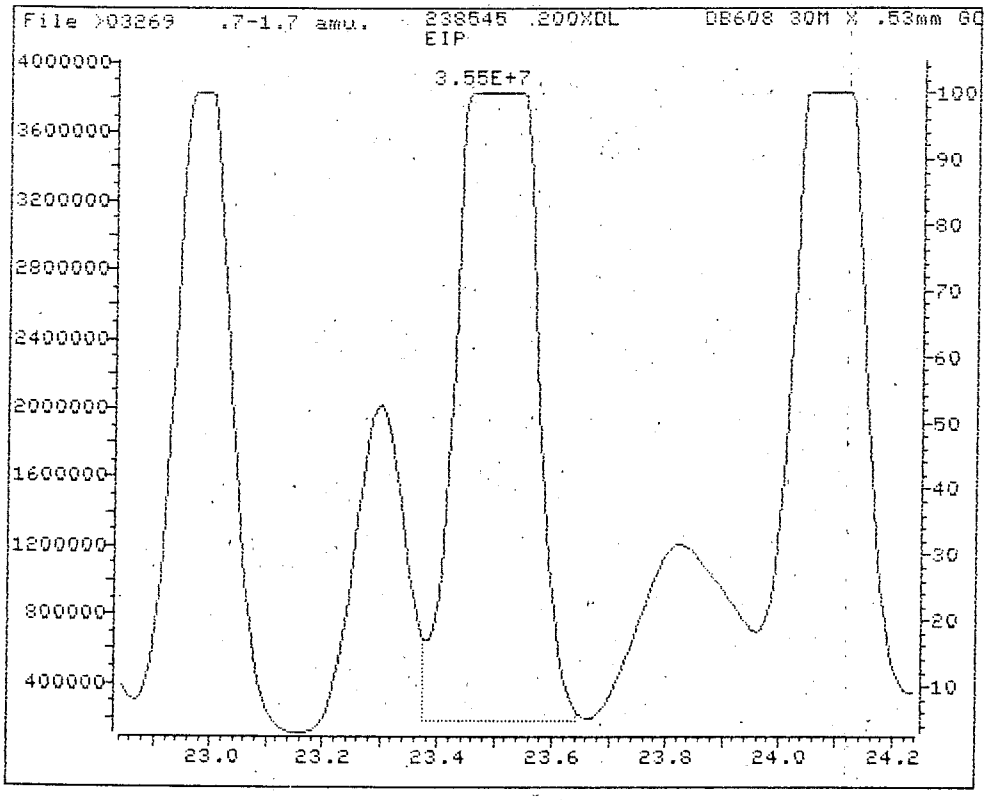
This report was produced by QAREA on: 960715 13:54



Data File: >03269::G3 Quant Output File: ^03269::GQ
Name: 238545 200XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.
Quant Time: 960712 13:48 Quant ID File: IDCAP1::SC
Injected at: 960712 00:40 Last Calibration: 941029 10:07

Compound No: 51
Compound Name: Aroclor-1254(2)
Scan Number: 2533
Retention Time: 21.11 min.
Quant Ion: 1.0
Area: 31775872M
Concentration: 5733.78 ng/ml
q-value: 100

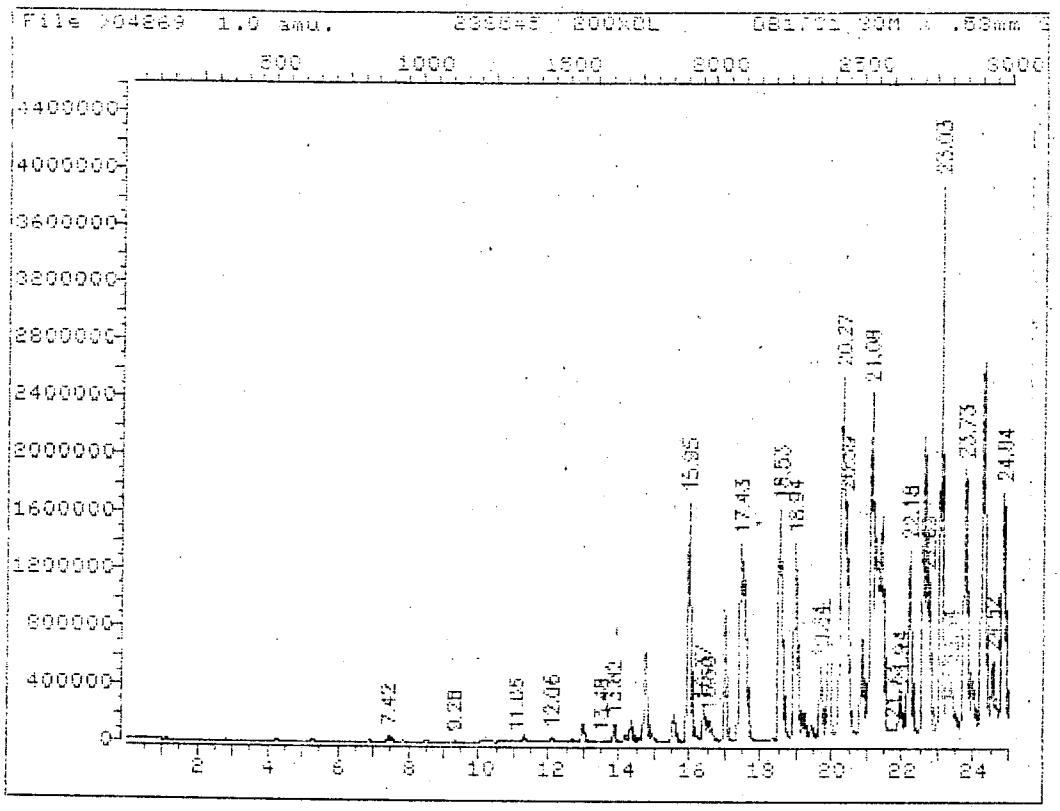
This report was produced by QAREA on: 960715 13:57



Data File: >03269::G3 Quant Output File: ^03269::GQ
Name: 238545 200XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.
Quant Time: 960712 13:48 Quant ID File: IDCAP1::SC
Injected at: 960712 00:40 Last Calibration: 941029 10:07

Compound No: 53
Compound Name: Aroclor-1254(4)
Scan Number: 2816
Retention Time: 23.47 min.
Quant Ion: 1.0
Area: 35461416M
Concentration: 5841.03 ng/ml
q-value: 100

This report was produced by QAREA on: 960715 13:59



Data File: >04269::G1 Quant Output File: ^04269::GQ
Name: 238545 200XDL Instrument ID: GC04
Misc: DB1701 30M X .55mm GC58903 1ul inj.

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qual Time: 960701 21:23

Operator ID: TRFI2
Quant Time : 960712 07:55
Injected at: 960712 00:40

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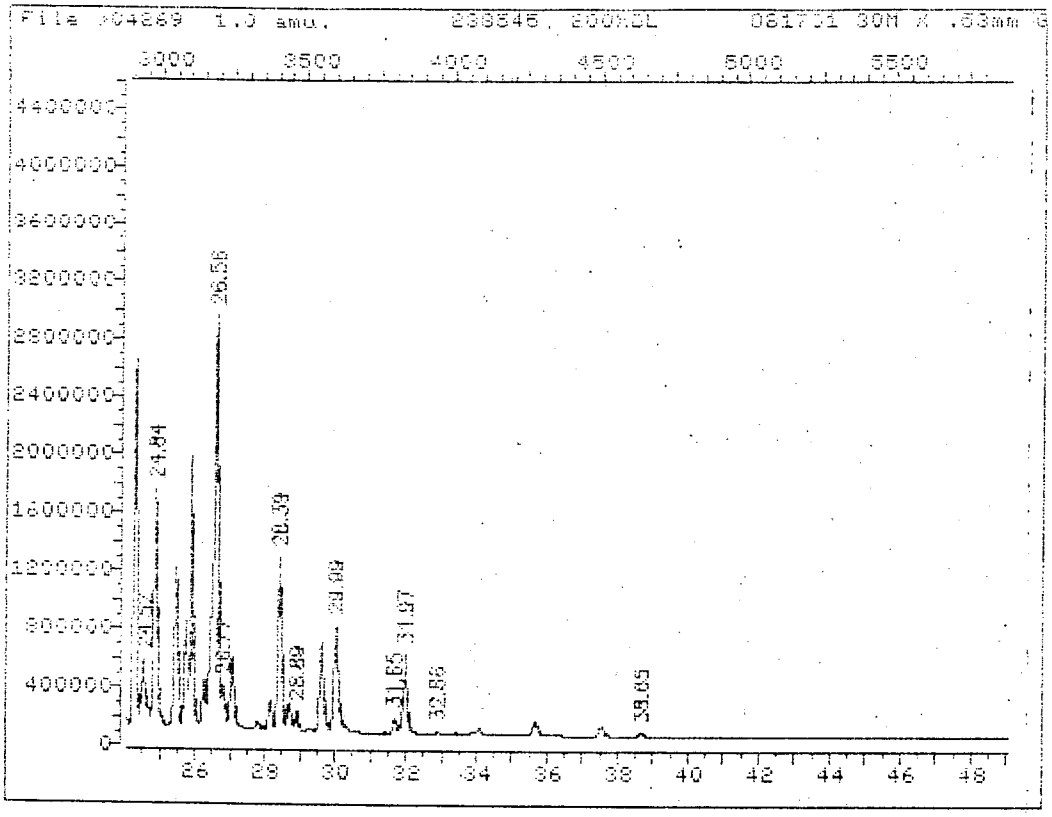

Data File: >04269::G1 Quant Output File: ^04269::GQ
Name: 238545 200XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm SC58903 1ul inj.

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

Operator ID: TRFI2
Quant Time : 960712 07:55
Inspected at: 960712 00:40

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QUANT REPORT

Operator ID: TRFIE
Output File: 03269##63
Data File: 03269##63
Name: 238548 200KL
Misc: DB608 30M X .53mm 0258903 1ul inj.

Quant Rev: 7
Quant Time: 960712 13:48
Injection at: 960712 00:40
Dilution Factor: 1.00000
Instrument ID: GC03

ID File: IDCAP1##SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07
Last Qcal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.07	1089	26092	.209	ng/ml	100
2)	~~#Aldrin BHC~~	12.46	1495	198221	1.54	ng/ml	100
3)	~~#Beta BHC~~	14.81	1777	2910354	55.46	ng/ml	100
4)	~~#gamma 2,3,4,5,6-hexachlorobenzene~~	14.27	1715	2098377	15.30	ng/ml	100
5)	~~#Heptachlor~~	16.02	1922	25054836	321.11	ng/ml	100
6)	~~#Aldrin~~	17.37	2084	9780826	72.58	ng/ml	100
7)	~~#Heptachlor epoxide~~	19.93	2391	11264456	102.55	ng/ml	100
8)	~~#Endosulfan I~~	21.70	2604	20017004	164.28	ng/ml	100
9)	~~#Dieldrin~~	22.97	2756	2474850	26.17	ng/ml	100
10)	~~#4,4'-DDE~~	22.97	2756	2474830	27.05	ng/ml	100
11)	~~#Endrin~~	24.82	2978	23646516	276.27	ng/ml	100
12)	~~#Endosulfan II~~	25.84	3101	10908818	113.27	ng/ml	100
13)	~~#4,4'-DDD~~	25.52	3062	1542757	26.78	ng/ml	100
14)	~~#Endosulfan Sulfate~~	28.59	3407	1011522	11.42	ng/ml	100
15)	~~#4,4'-DDT~~	27.29	3274	4042615	62.37	ng/ml	100
16)	~~#Methoxychlor~~	32.41	3889	4587083	113.00	ng/ml	100
17)	~~#Endrin ketone~~	32.87	3944	9519959	105.74	ng/ml	100
18)	#Decachlorobiphenyl	41.60	4992	86705	7.24	ng/ml	100
19)	~~#alpha-Chlordane~~ NT	21.93	2572	15399236	112.14	ng/ml	100
20)	~~#gamma-Chlordane~~ NT	20.80	2496	2745231	23.30	ng/ml	100
21)	~~#Toxaphene(1)~~ NP	23.57	2827	11212254	3991.53	ng/ml	100
22)	~~#Aroclor-1016(1)~~ NP	12.28	1474	217140	73.86	ng/ml	100
23)	~~#Aroclor-1221(1)~~ NP	9.03	966	48460	90.73	ng/ml	100
24)	~~#Aroclor-1232(1)~~ NP	12.28	1474	217140	75.80	ng/ml	100
25)	~~#Aroclor-1242(1)~~ NP	12.28	1474	217140	83.25	ng/ml	100
26)	~~#Aroclor-1248(1)~~ NP	16.02	1922	25054836	3310.99	ng/ml	100
27)	#Aroclor-1254(1)	20.82	2498	25486624M	5375.26	ng/ml	100
28)	~~#Aroclor-1260(1)~~ NP	24.37	2924	19781620	2531.79	ng/ml	100
29)	~~#Endrin aldehyde~~ NT	27.67	3320	6728013	85.30	ng/ml	100
30)	~~#Toxaphene(2)~~ NP	27.67	3320	6728013	3656.23	ng/ml	100
31)	~~#Toxaphene(3)~~ NP	28.59	3407	1011822	404.81	ng/ml	100
32)	~~#Aroclor-1016(2)~~ NP	14.29	1715	2068855	516.48	ng/ml	100
33)	~~#Aroclor-1016(3)~~ NP	16.02	1922	25054836	2268.28	ng/ml	100
34)	~~#Aroclor-1016(4)~~ NP	16.76	2011	1056512	282.90	ng/ml	100
35)	~~#Aroclor-1016(5)~~ NP	18.59	2279	22718476	6686.51	ng/ml	100
36)	~~#Aroclor-1221(2)~~ NP	11.25	1350	64379	38.29	ng/ml	100
37)	~~#Aroclor-1221(3)~~ NP	12.28	1474	217140	56.90	ng/ml	100
38)	~~#Aroclor-1232(2)~~ NP	14.29	1715	2068855	733.11	ng/ml	100
39)	~~#Aroclor-1232(3)~~ NP	16.02	1922	25054836	5525.57	ng/ml	100
40)	~~#Aroclor-1232(4)~~ NP	16.76	2011	1056512	613.62	ng/ml	100

NT

7/19/96

QUANT REPORT

Operator ID: TSFI2 Quant Rev: 7 Quant Time: 960712 13:48
Output File: ^03267::60 Injected at: 960712 00:40
Data File: >03267::53 Dilution Factor: 1.00000
Name: 233545 233XDL Instrument ID: GC03
Misc: DB-1 30M X .53mm 0.50mm 1ul inj.

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

	Compound		R.T	Scan#	Area	Conc	Units	q
43)	#~~Aroclor-1242(2)~~	NP	14.29	1715	1068855	384.58	ng/ml	100
44)	#~~Aroclor-1242(3)~~	NP	16.02	1922	2505-876	2810.94	ng/ml	100
45)	#~~Aroclor-1242(4)~~	NP	16.76	2011	1056502	334.03	ng/ml	100
46)	#~~Aroclor-1242(5)~~	NP	18.99	2279	22713476	7600.80	ng/ml	100
47)	#~~Aroclor-1248(2)~~	NP	17.52	2102	15859916	6080.46	ng/ml	100
48)	#~~Aroclor-1248(3)~~	NP	18.99	2279	22718476	5470.95	ng/ml	100
49)	#~~Aroclor-1248(4)~~	NP	20.44	2453	25472096	4844.56	ng/ml	100
50)	#~~Aroclor-1248(5)~~	NP	21.70	2604	20017004	3630.69	ng/ml	100
51)	#Aroclor-1254(2)		21.11	2533	31775872M	5733.78	ng/ml	100
52)	#Aroclor-1254(3)		22.68	2721	19446260	11440.25	ng/ml	100
53)	#Aroclor-1254(4)		23.47	2816	35461416M	5841.03	ng/ml	100
54)	#Aroclor-1254(5)		24.82	2978	23433948	6535.54	ng/ml	100
55)	#~~Aroclor-1260(2)~~	NP	24.82	2978	23433948	3345.61	ng/ml	100
56)	#~~Aroclor-1260(3)~~	NP	26.52	3182	14833434	2841.90	ng/ml	100
57)	#~~Aroclor-1260(4)~~	NP	30.11	3613	14965724	1385.12	ng/ml	100
58)	#~~Aroclor-1260(5)~~	NP	32.87	3944	9478513	1716.82	ng/ml	100

Compound uses ESTD

7/19/96

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 07:55
Output File: >04269::G3 Injected at: 960712 00:40
Data File: >04269::G1 Dilution Factor: 1.00000
Name: 238545 200XT Instrument ID: GC04
Misc: DB1701 30M X .55mm CC58903 1ul inj.

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Cal Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.28	1114	8151	.197	ng/ml	100
2)	#~~alpha-BHC~~	13.48	1618	16253	.496	ng/ml	100
3)	#~~beta-BHC~~	18.53	2223	12325416	469.08	ng/ml	100
4)	#~~delta-BHC~~	19.64	2357	2794113	114.64	ng/ml	100
6)	#~~Heptachlor~~	16.37	1964	1157596	24.41	ng/ml	100
7)	#~~Aldrin~~	17.43	2091	9024492	239.63	ng/ml	100
8)	#~~Heptachlor epoxide~~	20.39	2447	9500876	217.56	ng/ml	100
9)	#~~Endosulfan~~ I	21.73	2608	81847	2.29	ng/ml	100
10)	#~~Dieldrin~~	23.34	2801	2633481	81.09	ng/ml	100
11)	#~~4,4' DDE~~	22.69	2723	5730489	206.43	ng/ml	100
12)	#~~Endrin~~	24.52	2942	2278861	78.61	ng/ml	100
13)	#~~Endosulfan II~~	26.77	3212	1865581	52.12	ng/ml	100
14)	#~~4,4' DDD~~	26.56	3187	21608024	1022.58	ng/ml	100
18)	#~~Endrin ketone~~	32.86	3943	193281	6.86	ng/ml	100
19)	#Decachlorobiphenyl	38.65	4638	296563	6.35	ng/ml	100
20)	#~~alpha-Chlordane~~ NT	22.18	2662	8212902	196.93	ng/ml	100
21)	#~~gamma-Chlordane~~ NT	21.94	2633	1386985	34.71	ng/ml	100
23)	#~~Aroclor-1016(1)~~ NP	12.06	1447	170324	137.91	ng/ml	100
24)	#~~Aroclor-1221(1)~~ NP	7.42	890	193617	244.85	ng/ml	100
25)	#~~Aroclor-1232(1)~~ NP	7.42	890	193617	162.60	ng/ml	100
26)	#~~Aroclor-1242(1)~~ NP	12.06	1447	170324	160.99	ng/ml	100
27)	#~~Aroclor-1248(1)~~ NP	13.82	1659	744923	676.29	ng/ml	100
28)	#Aroclor-1254(1)	17.43	2091	9024428	5680.60	ng/ml	100
29)	#~~Aroclor-1260(1)~~ NP	23.73	2848	12603922	5455.46	ng/ml	100
30)	#~~Endrin aldehyde~~ NT	28.89	3467	1034755	34.05	ng/ml	100
31)	#~~Toxaphene(2)~~	28.39	3406	8616773	11955.45	ng/ml	100
33)	#~~Toxaphene(4)~~ NP	31.65	3798	804857	1603.96	ng/ml	100
34)	#~~Aroclor-1016(2)~~	13.82	1659	744923	304.71	ng/ml	100
35)	#~~Aroclor-1016(3)~~	15.95	1914	10457906	2695.94	ng/ml	100
36)	#~~Aroclor-1016(4)~~ NP	16.50	1980	1126189	773.31	ng/ml	100
37)	#~~Aroclor-1016(5)~~	18.53	2223	12325416	5981.24	ng/ml	100
38)	#~~Aroclor-1221(2)~~	11.05	1326	6351	9.68	ng/ml	100
39)	#~~Aroclor-1221(3)~~ NP	12.06	1447	170324	99.30	ng/ml	100
40)	#~~Aroclor-1232(2)~~	12.06	1447	170324	145.39	ng/ml	100
41)	#~~Aroclor-1232(3)~~ NP	13.82	1659	744923	723.44	ng/ml	100
42)	#~~Aroclor-1232(4)~~	15.95	1914	10457906	6694.56	ng/ml	100
43)	#~~Aroclor-1242(2)~~	13.82	1659	744923	375.03	ng/ml	100
44)	#~~Aroclor-1242(3)~~ NP	15.95	1914	10457906	3391.93	ng/ml	100
45)	#~~Aroclor-1242(4)~~	16.50	1980	1126189	985.31	ng/ml	100
46)	#~~Aroclor-1242(5)~~	17.43	2091	9024428	11405.42	ng/ml	100

EPrui
7/13/96

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 07:55
Output File: ^04269::G0 Injected at: 960712 00:40
Data File: >04269::G1 Dilution Factor: 1.00000
Name: 238545 200XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm SC58903 1ul inj.

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Scal Time: 960701 21:23

Compound	R.T.	Scan#	Area	Conc	Units	q
47) ~~#Aroclor-1248(2)~~	15.95	1914	10457906	4003.36	ng/ml	100
48) ~~#Aroclor-1248(3)~~	18.53	2223	12325416	5002.85	ng/ml	100
49) ~~#Aroclor-1248(4)~~	18.94	2273	8822732	4997.70	ng/ml	100
50) ~~#Aroclor-1248(5)~~	20.39	2447	9500876	9898.61	ng/ml	100
51) #Aroclor-1254(2)	20.27	2432	12582480	8156.01	ng/ml	100
52) #Aroclor-1254(3)	21.08	2529	14567370	7953.81	ng/ml	100
53) #Aroclor-1254(4)	23.03	2764	23962028	9397.98	ng/ml	100
54) #Aroclor-1254(5)	23.73	2848	12603922	9293.15	ng/ml	100
55) ~~#Aroclor-1260(2)~~	24.84	2981	11588620	4269.20	ng/ml	100
56) ~~#Aroclor-1260(3)~~	28.39	3406	8624406	4859.26	ng/ml	100
57) ~~#Aroclor-1260(4)~~	29.99	3598	5873075	1493.82	ng/ml	100
58) ~~#Aroclor-1260(5)~~	31.97	3836	5487627	2209.68	ng/ml	100

NP

NP

Compound uses ESTD

EBrun
7/13/96

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S5	DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Matrix: (soil/water) SOIL Lab Sample ID: 238545

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 03224

% Moisture: 11. decanted: (Y/N) N Date Received: 06/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/03/96

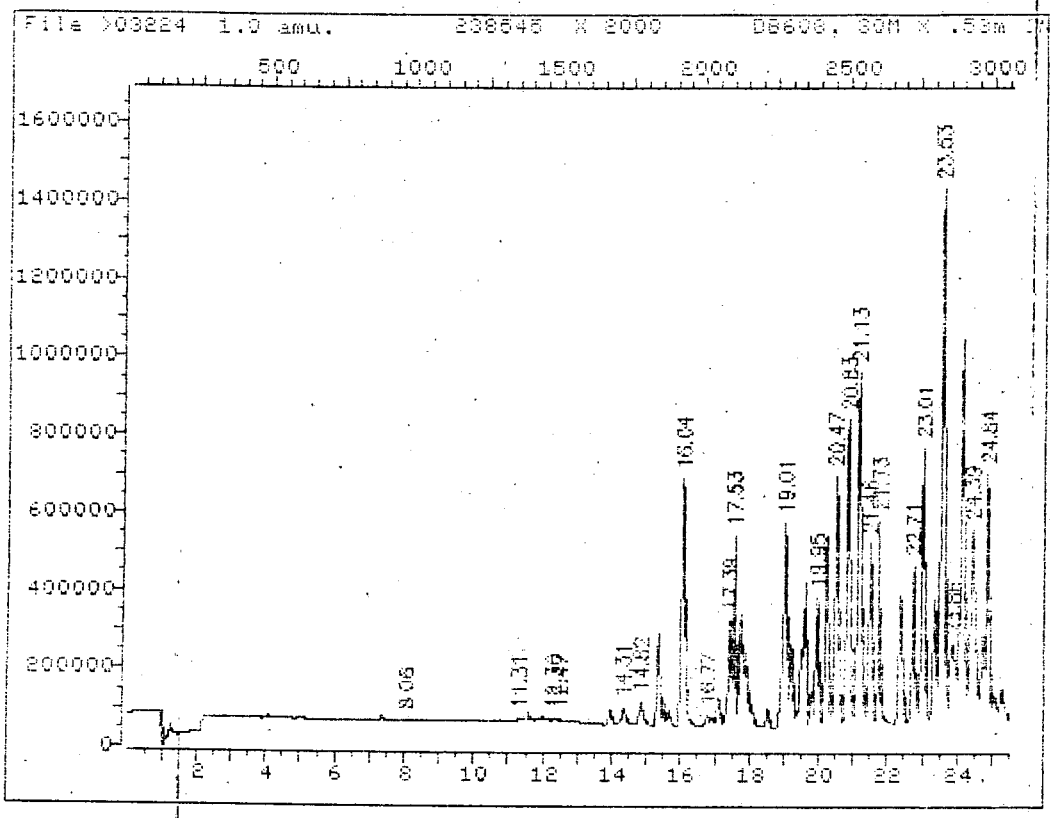
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/96

Injection Volume: 1.0 (uL) Dilution Factor: 2000.0

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

Do not use these data

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	~~380.~~ 3800. PES 1/25/96	U
319-85-7	beta-BHC	3800.	U
319-86-8	delta-BHC	3800.	U
58-89-9	gamma-BHC (Lindane)	3800.	U
76-44-8	Heptachlor	3800.	U
309-00-2	Aldrin	3800.	U
1024-57-3	Heptachlor epoxide	3800.	U
959-98-8	Endosulfan I	3800.	U
60-57-1	Dieldrin	7400.	U
72-55-9	4,4'-DDE	7400.	U
72-20-8	Endrin	7400.	U
33213-65-9	Endosulfan II	7400.	U
72-54-8	4,4'-DDD	7400.	U
1031-07-8	Endosulfan Sulfate	7400.	U
50-29-3	4,4'-DDT	7400.	U
72-43-5	Methoxychlor	38000.	U
53494-70-5	Endrin ketone	7400.	U
7421-93-4	Endrin aldehyde	7400.	U
5103-71-9	alpha-Chlordane	3800.	U
5103-74-2	gamma-Chlordane	3800.	U
8001-35-2	Toxaphene	380000.	U
12674-11-2	Aroclor-1016	74000.	U
11104-28-2	Aroclor-1221	150000.	U
11141-16-5	Aroclor-1232	74000.	U
53469-21-9	Aroclor-1242	74000.	U
12672-29-6	Aroclor-1248	74000.	U
11097-69-1	Aroclor-1254	1000000.	D
11096-82-5	Aroclor-1260	74000.	U

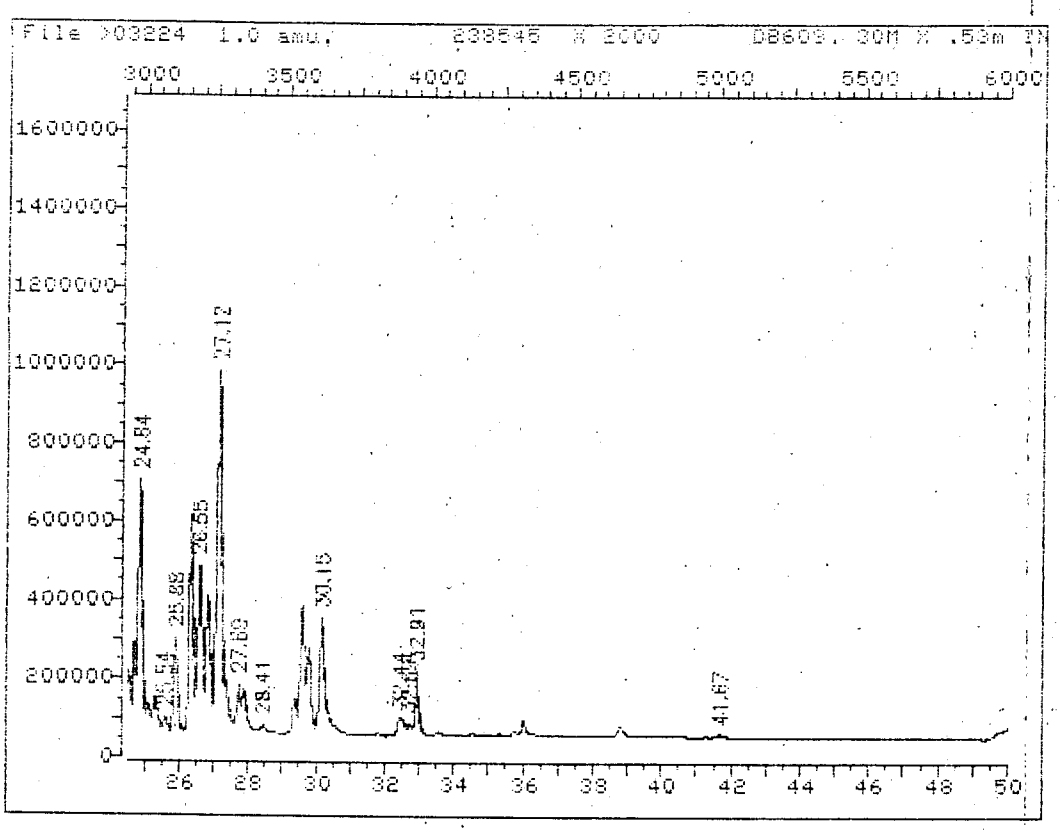


Data File: >03224::G3 Quant Output File: ^03224::F3
Name: 238545 X 2000 Instrument ID: GC03
Misc: DB608, 30M X .53m INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Operator ID: TRFIL
Quant Time : 960710 00:16
Injected at: 960709 21:05

Page 1 of 2

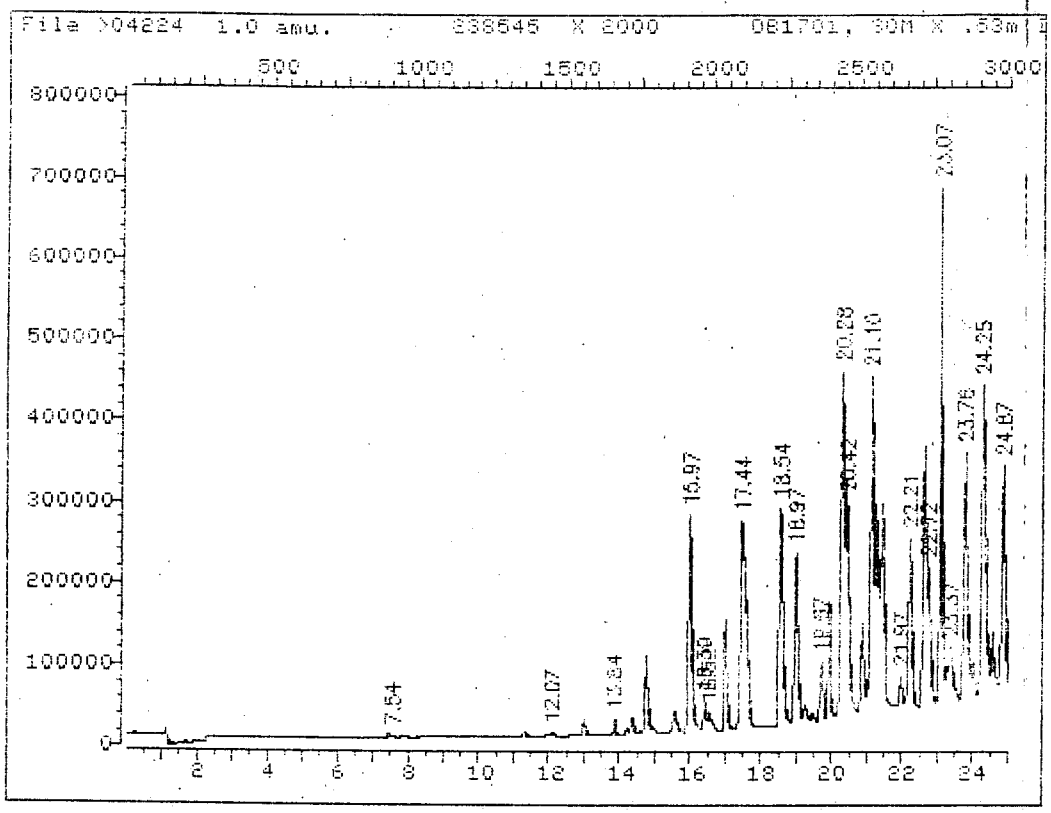


Data File: >03224::G3 Quant Output File: ^03224::F3
Name: 238545 X 2000 Instrument ID: GC03
Misc: DB608, 30M X .53m INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qual Time: 960702 00:13

Operator ID: TRFIL
Quant Time : 960710 00:16
Injected at: 960709 21:05

Page 2 of 2

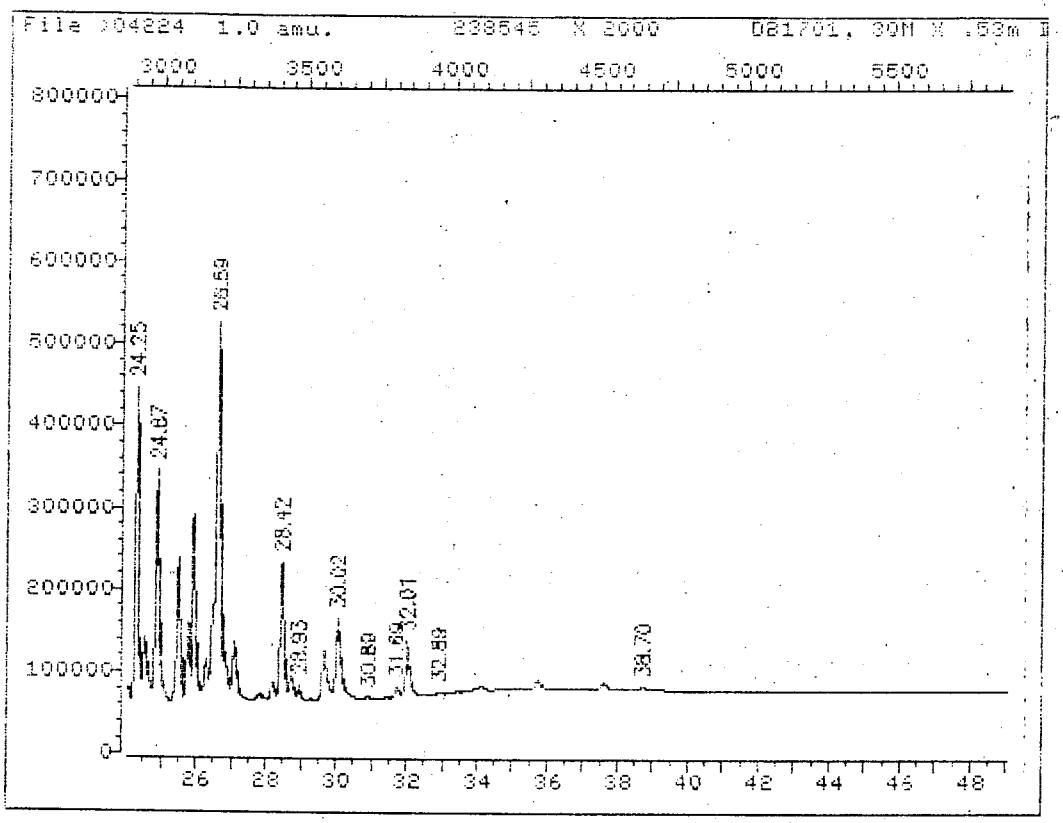


Data File: >04224::G1 Quant Output File: ^04224::F3
Name: 238545 X 2000 Instrument ID: GC04
Misc: DB1701. 30M X .53m INST 58903. 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

Operator ID: TRFIL
Quant Time : 960710 00:14
Injected at: 960709 21:05

Page 1 of 2



Data File: >04224::G1 Quant Output File: ^04224::F3
Name: 238545 X 2000 Instrument ID: GC04
Misc: DB1701, 30M X .53m INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qual Time: 960701 21:23

Operator ID: TRFIL
Quant Time : 960710 00:14
Injected at: 960709 21:05

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QUANT REPORT

Operator ID: TRFIL
Output File: ^03224::F3
Data File: >03224::G3
Name: 238545 X 2000
Misc: DB608. 30M X .53m INST 58903. 1ul INJ

Quant Rev: 7
Quant Time: 960710 00:16
Injected at: 960709 21:05
Dilution Factor: 1.00000
Instrument ID: GC03

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07
Last Qcal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
2)	~~#alpha-BHC~~	12.47	1497	28607	.193	ng/ml	100
3)	~~#beta-BHC~~	14.82	1779	453858	5.53	ng/ml	100
5)	~~#gamma-BHC (Lindane)~~	14.31	1717	317411	2.32	ng/ml	100
6)	~~#Heptachlor~~	16.04	1925	4393576	56.31	ng/ml	100
7)	~~#Aldrin~~	17.39	2087	1548126	11.49	ng/ml	100
8)	~~#Heptachlor epoxide~~	19.95	2394	1870659	17.03	ng/ml	100
9)	~~#Endosulfan I~~	21.73	2607	3334892	27.37	ng/ml	100
10)	~~#Dieldrin~~	23.01	2761	4335668	45.86	ng/ml	100
11)	~~#4,4'-DDE~~	22.71	2725	3075699	33.62	ng/ml	100
12)	~~#Endrin~~	24.84	2981	4199717	49.07	ng/ml	100
13)	~~#Endosulfan II~~	25.88	3105	1648166	17.11	ng/ml	100
14)	~~#4,4'-DDD~~	25.54	3065	256603	4.45	ng/ml	100
15)	~~#Endosulfan Sulfate~~	28.41	3409	150065	1.69	ng/ml	100
16)	~~#4,4'-DDT~~	27.12	3254	6928422	106.89	ng/ml	100
17)	~~#Methoxychlor~~	32.44	3892	311248	8.02	ng/ml	100
18)	~~#Endrin ketone~~	32.69	3922	95132	1.06	ng/ml	100
19)	#Decachlorobiphenyl	41.67	5000	92581	.773	ng/ml	100
20)	~~#alpha-Chlordane~~ NT	21.46	2575	2709964	19.73	ng/ml	100
21)	~~#gamma-Chlordane~~ NT	20.83	2500	4951147	42.02	ng/ml	100
22)	~~#Toxaphene(1)~~ NP	23.86	2863	1744114	1087.54	ng/ml	100
23)	~~#Aroclor 1016(1)~~ NP	12.30	1476	24056	8.18	ng/ml	100
24)	~~#Aroclor 1221(1)~~ NP	8.06	967	9679	11.41	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	12.30	1476	24056	8.40	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.30	1476	24056	9.22	ng/ml	100
27)	~~#Aroclor 1248(1)~~ NP	16.04	1925	4393576	580.61	ng/ml	100
28)	~~#Aroclor 1254(1)~~ NP EP	20.83	2500	4951147	1044.23	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	24.39	2927	3516517	453.62	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	27.69	3323	902408	11.44	ng/ml	100
31)	~~#Toxaphene(2)~~ NP	27.69	3323	902408	490.40	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	28.41	3409	150065	60.04	ng/ml	100
34)	~~#Aroclor 1016(2)~~ NP	14.31	1717	317411	48.56	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	16.04	1925	4393576	397.76	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.77	2013	162994	43.64	ng/ml	100
37)	~~#Aroclor 1016(5)~~ NP	19.01	2281	3959966	1165.50	ng/ml	100
38)	~~#Aroclor-1221(2)~~ NP	11.31	1357	21611	12.86	ng/ml	100
39)	~~#Aroclor 1221(3)~~ NP	12.30	1476	24056	6.30	ng/ml	100
40)	~~#Aroclor-1232(2)~~ NP	14.31	1717	317411	112.48	ng/ml	100
41)	~~#Aroclor 1232(3)~~ NP	16.04	1925	4393576	933.88	ng/ml	100
42)	~~#Aroclor 1232(4)~~ NP	16.77	2013	162994	94.67	ng/ml	100
43)	~~#Aroclor 1242(2)~~ NP	14.31	1717	317411	58.97	ng/ml	100

E Price
7/10/96

Operator ID: TRFIL Quant Rev: 7 Quant Time: 960710 00:16
Output File: ^03224::F3 Injected at: 960709 21:05
Data File: >03224::G3 Dilution Factor: 1.00000
Name: 138545 X 2000 Instrument ID: GC03
Misc: DB608, 30M X .53m INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
44)	~~#Aroclor-1242(3)~~ UP	16.04	1925	4393576	492.92	ng/ml	100
45)	~~#Aroclor-1242(4)~~ UP	16.77	2013	162994	51.53	ng/ml	100
46)	~~#Aroclor-1242(5)~~ UP	19.01	2281	3959966	1324.86	ng/ml	100
47)	~~#Aroclor-1248(2)~~ UP	17.53	2104	3027926	1160.86	ng/ml	100
48)	~~#Aroclor-1248(3)~~ UP	19.01	2281	3959966	953.60	ng/ml	100
49)	~~#Aroclor-1248(4)~~ UP	20.47	2456	3941242	813.46	ng/ml	100
50)	~~#Aroclor-1248(5)~~ UP	21.73	2607	3334892	604.88	ng/ml	100
51)	#Aroclor-1254(2)	21.13	2536	6214791	1121.42	ng/ml	100
52)	#Aroclor-1254(3)	22.71	2725	3075699	1907.53	ng/ml	100
53)	#Aroclor-1254(4)	23.55	2823	8728232	1437.67	ng/ml	100
54)	#Aroclor-1254(5)	24.84	2981	4199717	1171.27	ng/ml	100
55)	~~#Aroclor-1260(2)~~ UP	24.84	2981	4199717	599.58	ng/ml	100
56)	~~#Aroclor-1260(3)~~ UP	26.55	3186	3214977	615.87	ng/ml	100
57)	~~#Aroclor-1260(4)~~ UP	30.15	3618	2463024	227.96	ng/ml	100
58)	~~#Aroclor-1260(5)~~ UP	32.91	3949	1408982	255.20	ng/ml	100

Compound uses ESTD

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7/10/96

QUANT REPORT

Operator ID: TRFIL
Output File: ^04224::F3
Data File: >04224::G1
Name: 238545 X 2000
Misc: DB1701, 30M X .53m INST 58903, 1ul INJ

Quant Rev: 7 Quant Time: 960710 00:14
Injected at: 960709 21:05
Dilution Factor: 1.00000
Instrument ID: GC04

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Scal Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
3)	~~#Beta-BHC~~	18.54	2225	2075157	78.98	ng/ml	100
4)	~~#delta-BHC~~	19.67	2360	441063	18.10	ng/ml	100
6)	~~#Heptachlor~~	16.39	1967	215646	4.55	ng/ml	100
7)	~~#Aldrin~~	17.44	2093	2850741	75.70	ng/ml	100
8)	~~#Heptachlor epoxide~~	20.42	2450	1545139	35.38	ng/ml	100
10)	~~#Dieldrin~~	23.37	2804	451628	13.91	ng/ml	100
11)	~~#4,4'-DDE~~	22.72	2726	893476	32.19	ng/ml	100
12)	~~#Endrin~~	24.25	2910	2846519	98.20	ng/ml	100
13)	~~#Endosulfan II~~	26.59	3191	3609722	100.86	ng/ml	100
14)	~~#4,4'-DDD~~	26.59	3191	3594249	170.09	ng/ml	100
17)	~~#Methoxychlor~~	30.89	3707	11750	.873	ng/ml	100
18)	~~#Endrin ketone~~	32.89	3947	30749	1.09	ng/ml	100
19)	#Decachlorobiphenyl	38.70	4644	32504	.696	ng/ml	100
20)	~~#alpha-Chlordane~~ NT	22.21	2665	1305338	31.30	ng/ml	100
21)	~~#gamma-Chlordane~~ NT	21.97	2636	196341	4.91	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.07	1449	20327	16.46	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	7.54	905	14375	18.18	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	7.54	905	14375	12.07	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.07	1449	20327	19.21	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	13.84	1661	111079	100.84	ng/ml	100
28)	#Aroclor-1254(1)	17.44	2093	2868160	1805.42	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	23.76	2851	2084070	902.07	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	28.93	3471	140448	4.62	ng/ml	100
31)	~~#Toxaphene(2)~~ NP	28.42	3410	1256408	1743.22	ng/ml	100
33)	~~#Toxaphene(4)~~ NP	31.69	3802	106628	212.49	ng/ml	100
34)	~~#Aroclor-1016(2)~~ NP	13.84	1661	111079	45.44	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	15.97	1917	1687387	434.99	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.52	1982	153199	105.20	ng/ml	100
37)	~~#Aroclor-1016(5)~~ NP	18.54	2225	2075157	1007.03	ng/ml	100
39)	~~#Aroclor-1221(3)~~ NP	12.07	1449	20327	11.85	ng/ml	100
40)	~~#Aroclor-1232(2)~~ NP	12.07	1449	20327	17.35	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	13.84	1661	111079	107.88	ng/ml	100
42)	~~#Aroclor-1232(4)~~ NP	15.97	1917	1687387	1080.17	ng/ml	100
43)	~~#Aroclor-1242(2)~~ NP	13.84	1661	111079	55.92	ng/ml	100
44)	~~#Aroclor-1242(3)~~ NP	15.97	1917	1687387	547.29	ng/ml	100
45)	~~#Aroclor-1242(4)~~ NP	16.52	1982	153199	134.03	ng/ml	100
46)	~~#Aroclor-1242(5)~~ NP	17.44	2093	2868160	3624.89	ng/ml	100
47)	~~#Aroclor-1248(2)~~ NP	15.97	1917	1687387	645.94	ng/ml	100
48)	~~#Aroclor-1248(3)~~ NP	18.54	2225	2075157	842.30	ng/ml	100
49)	~~#Aroclor-1248(4)~~ NP	18.97	2276	1376762	779.88	ng/ml	100

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7/10/96

QUANT REPORT

Operator ID: TRFIL
Output File: ^04224::F3
Data File: >04224::G1
Name: 238545 X 2000
Misc: DB1701, 30M X .53m INST 58903, 1ul INJ

Quant Rev: 7
Quant Time: 960710 00:14
Injected at: 960709 21:05
Dilution Factor: 1.00000
Instrument ID: GC04

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07
Last Qual Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
50)	~~#Aroclor-1248(5)~~ NP	20.42	2450	1545139	1609.85	ng/ml	100
51)	#Aroclor-1254(2)	20.28	2434	2858333	1405.86	ng/ml	100
52)	#Aroclor-1254(3)	21.10	2532	2422349	1320.79	ng/ml	100
53)	#Aroclor-1254(4)	23.07	2768	3973157	1558.28	ng/ml	100
54)	#Aroclor-1254(5)	23.76	2851	2084070	1536.63	ng/ml	100
55)	~~#Aroclor-1260(2)~~ NP	24.87	2984	2086902	768.63	ng/ml	100
56)	~~#Aroclor-1260(3)~~ NP	28.42	3410	1262870	711.54	ng/ml	100
57)	~~#Aroclor-1260(4)~~ NP	30.02	3602	1032622	262.65	ng/ml	100
58)	~~#Aroclor-1260(5)~~ NP	32.01	3841	711937	286.67	ng/ml	100

Compound uses ESTD

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7/10/96

QUANT REPORT

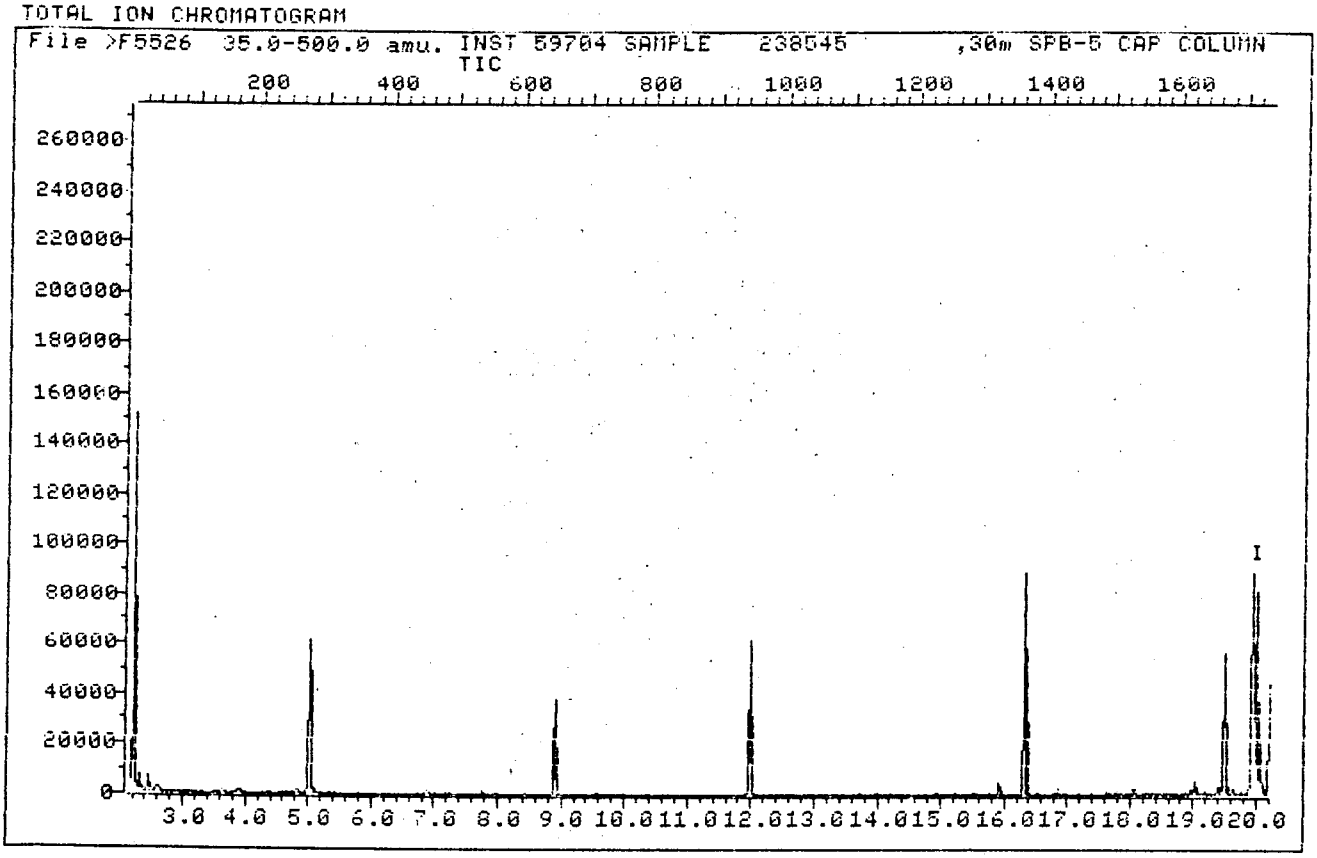
Operator ID: GT0101 Quant Rev: 7 Quant Time: 960709 13:17
Output File: ^F5526::QT Injected at: 960709 12:38
Data File: >F5526::F1 Dilution Factor: 1.00000
Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 238545 ,30m SPB-5 CAP COLUMN BTL# 4

ID File: IDPEST::SC
Title: CLP PESTICIDE CONFIRMATION FILE
Last Calibration: : Last Qcal Time: 960705 12:13

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Phenanthrene-d10	19.91	188.0	66219	40.00	UG/ML	100
16)	4,4'-DDD	25.68	235.0	256	.166	UG/ML	82
19)	4,4'-DDT	25.68	235.0	256	.183	UG/ML	88
21)	Methoxychlor	27.88	227.0	75	.0279	UG/ML	83

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >F5526::F1 Quant Output File: ^F5526::QT
Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 238545 ,30m SPB-5 CAP COLUMN BTL# 4

Id File: IDPEST::SC
Title: CLP PESTICIDE CONFIRMATION FILE
Last Calibration: : Last Qcal Time: 960705 12:13

Operator ID: GT0101
Quant Time : 960709 13:17
Injected at: 960709 12:38

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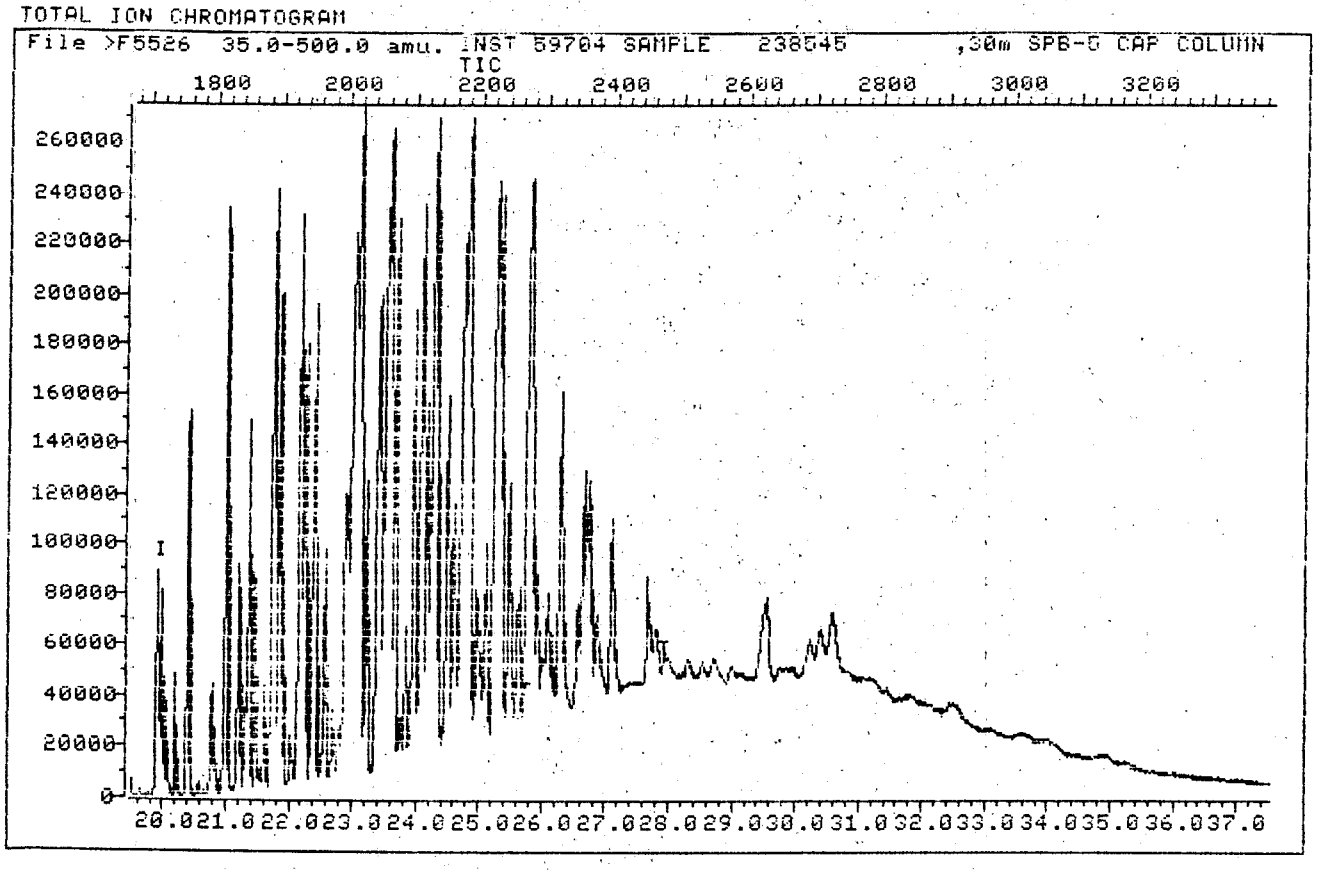
TOTAL ION CHROMATOGRAM



Data File: >F5526::F1 Quant Output File: ^F5526::QT
Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 238545 ,30m SPB-5 CAP COLUMN BTL# 4

Id File: IDPEST::SC
Title: CLP PESTICIDE CONFIRMATION FILE
Last Calibration: : Last Qcal Time: 960705 12:13

Operator ID: GT0101
Quant Time : 960709 13:17
Injected at: 960709 12:38

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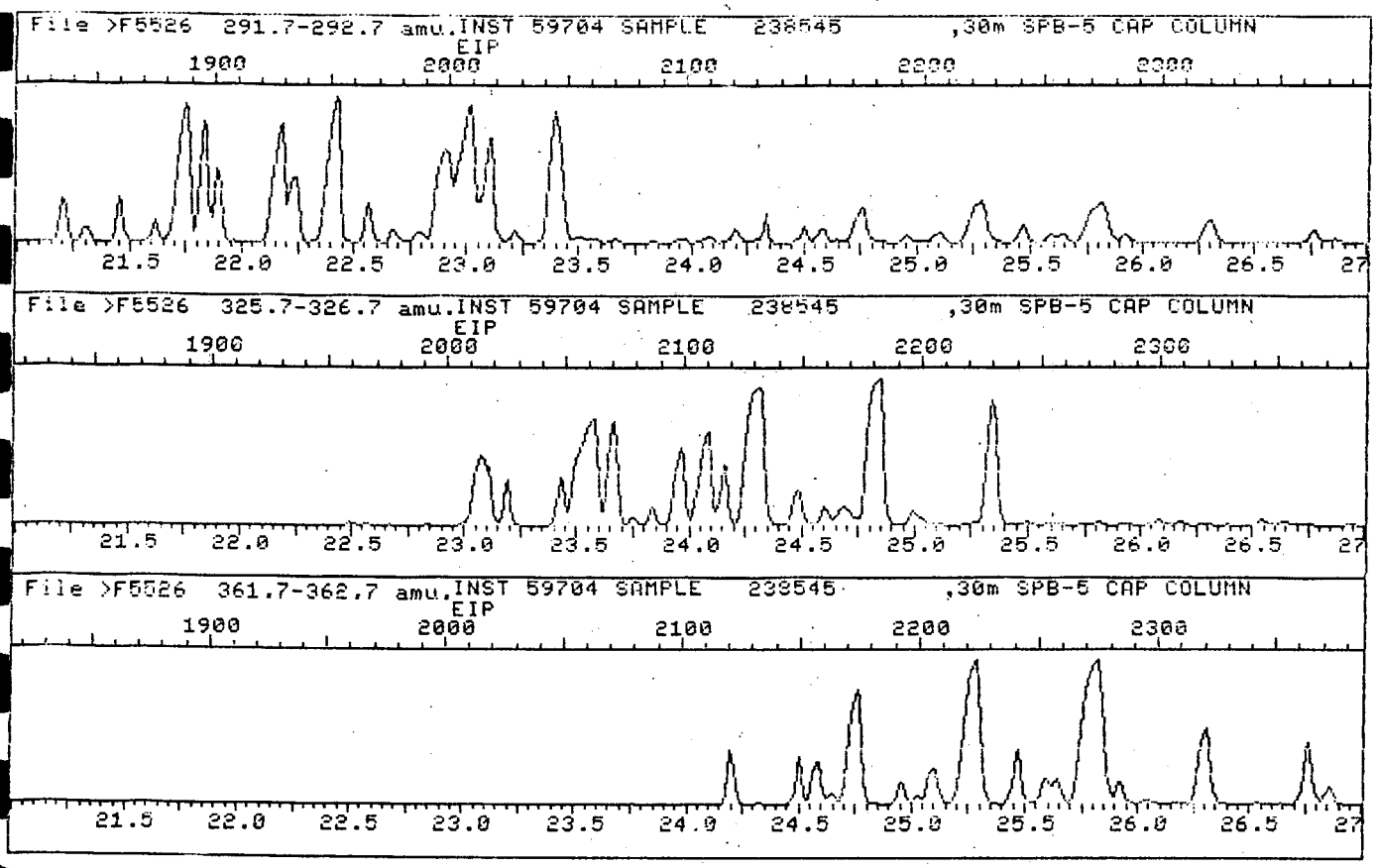


MS data file header from : >F5526::F1

Sample: INST 59704 SAMPLE Operator: GT0101 SUPER GRP. 7/09/96 12:38
Misc : 238545 ,30m SPB-5 CAP COLUMN BTL# 4
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 4 Equip ID: INST F
Method file: BNP4 Tuning file: MTA004 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	40.	280.	300.	0.	0.
Chromatographic times, min. :	4.0	1.0	20.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	10.0	0.0	0.0	0.0

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S6

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Matrix: (soil/water) SOIL Lab Sample ID: 238547

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 03271

% Moisture: 13. decanted: (Y/N) N Date Received: 06/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/03/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/12/96

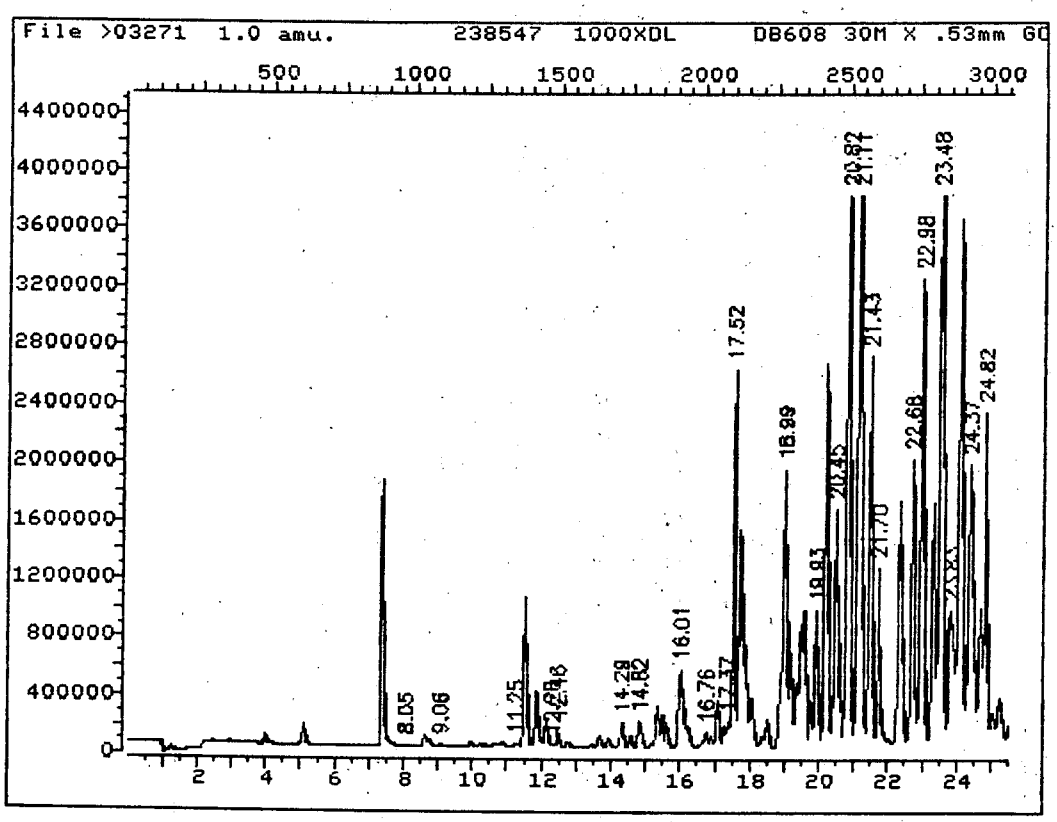
Injection Volume: 1.0 (uL) Dilution Factor: 1000.0

GPC Cleanup: (Y/N) Y pH: 8.2 Sulfur Cleanup: (Y/N) N

Use these data

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1900.	U
319-85-7	beta-BHC	1900.	U
319-86-8	delta-BHC	1900.	U
58-89-9	gamma-BHC (Lindane)	1900.	U
76-44-8	Heptachlor	1900.	U
309-00-2	Aldrin	1900.	U
1024-57-3	Heptachlor epoxide	1900.	U
959-98-8	Endosulfan I	1900.	U
60-57-1	Dieldrin	3800.	U
72-55-9	4,4'-DDE	3800.	U
72-20-8	Endrin	3800.	U
33213-65-9	Endosulfan II	3800.	U
72-54-8	4,4'-DDD	3800.	U
1031-07-8	Endosulfan Sulfate	3800.	U
50-29-3	4,4'-DDT	3800.	U
72-43-5	Methoxychlor	19000.	U
53494-70-5	Endrin ketone	3800.	U
7421-93-4	Endrin aldehyde	3800.	U
5103-71-9	alpha-Chlordane	1900.	U
5103-74-2	gamma-Chlordane	1900.	U
8001-35-2	Toxaphene	190000.	U
12674-11-2	Aroclor-1016	38000.	U
11104-28-2	Aroclor-1221	77000.	U
11141-16-5	Aroclor-1232	38000.	U
53469-21-9	Aroclor-1242	38000.	U
12672-29-6	Aroclor-1248	38000.	U
11097-69-1	Aroclor-1254	3000000 ~~2200000.~~	~~CP~~ D*
11096-82-5	Aroclor-1260	38000.	U

D* value transferred from diluted analysis S6 DL 10,000 X D/F



Data File: >03271::G3 Quant Output File: ^03271::GQ
Name: 238547 1000XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Operator ID: TRFI2
Quant Time : 960712 13:51
Injected at: 960712 02:23

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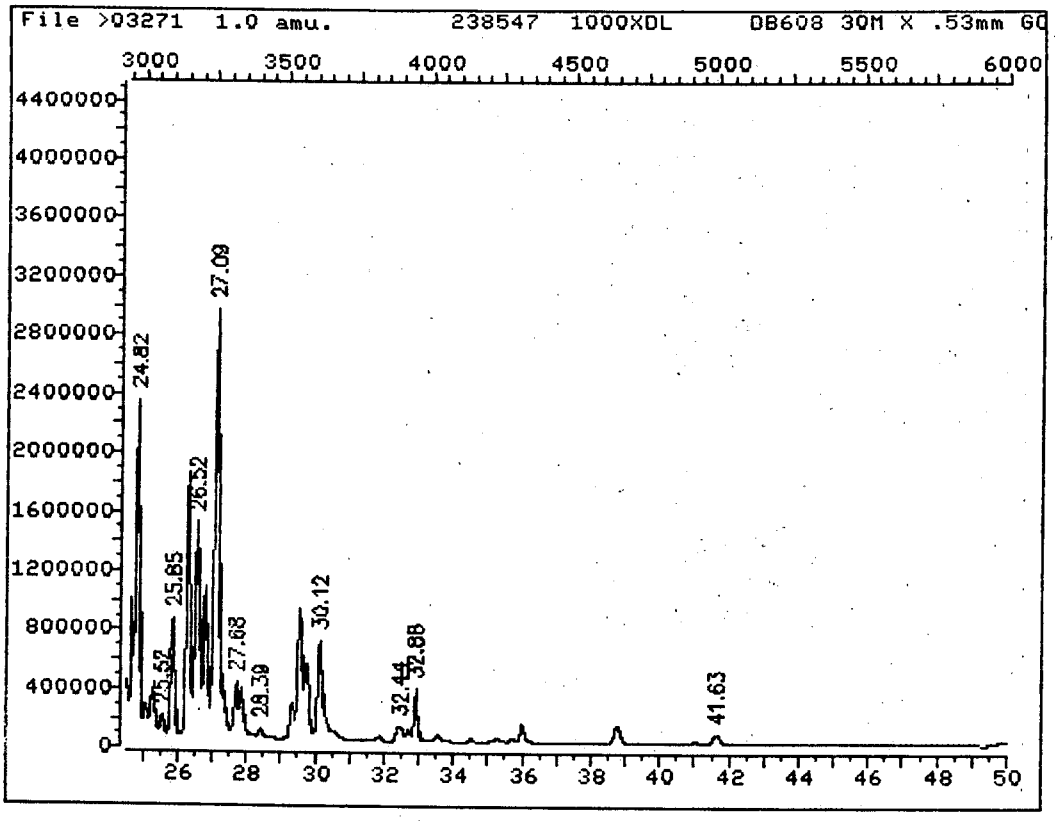
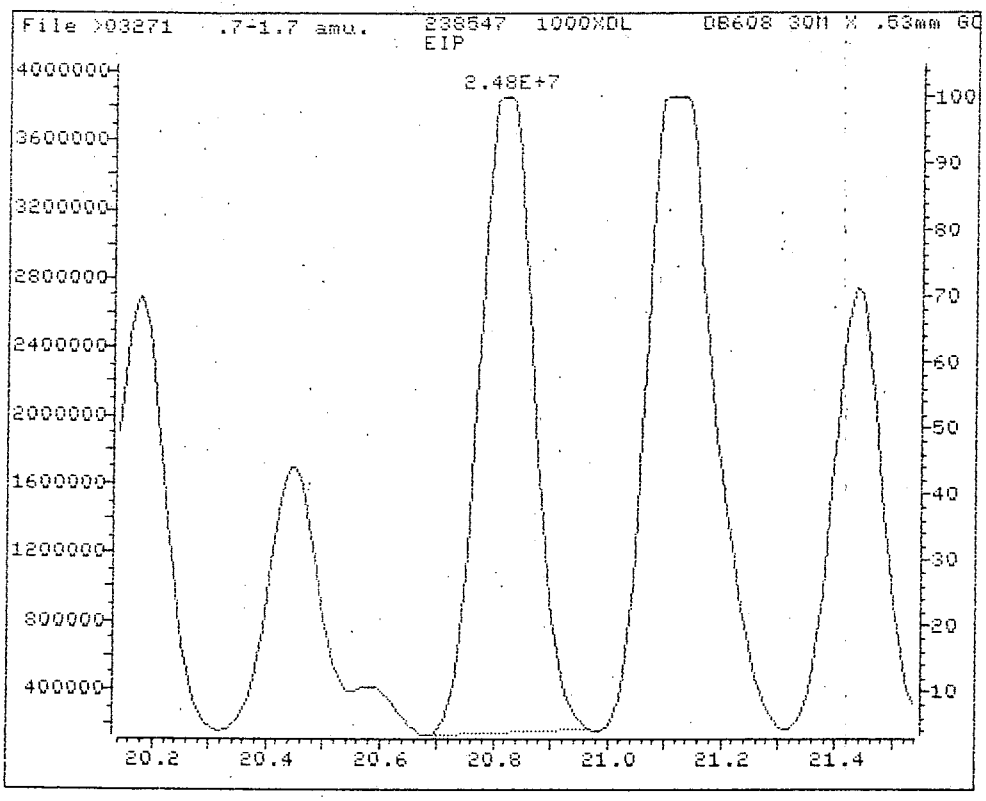


Data File: >03271::G3 Quant Output File: ^03271::GQ
Name: 238547 1000XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Operator ID: TRFI2
Quant Time : 960712 13:51
Injected at: 960712 02:23

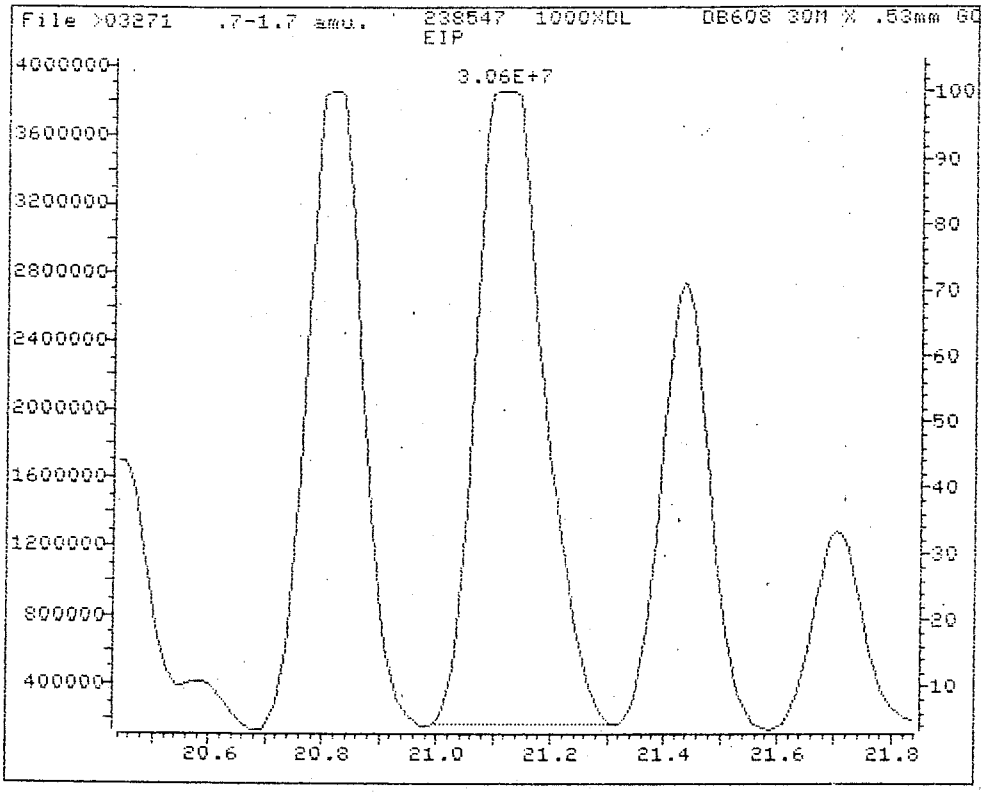
Page 2 of 2



Data File: >03271::G3 Quant Output File: ^03271::GQ
Name: 238547 1000XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.
Quant Time: 960712 13:51 Quant ID File: IDCAP1::SC
Injected at: 960712 02:23 Last Calibration: 941029 10:07

Compound No: 28
Compound Name: Aroclor-1254(1)
Scan Number: 2498
Retention Time: 20.82 min.
Quant Ion: 1.0
Area: 24826028M
Concentration: 5235.96 ng/ml

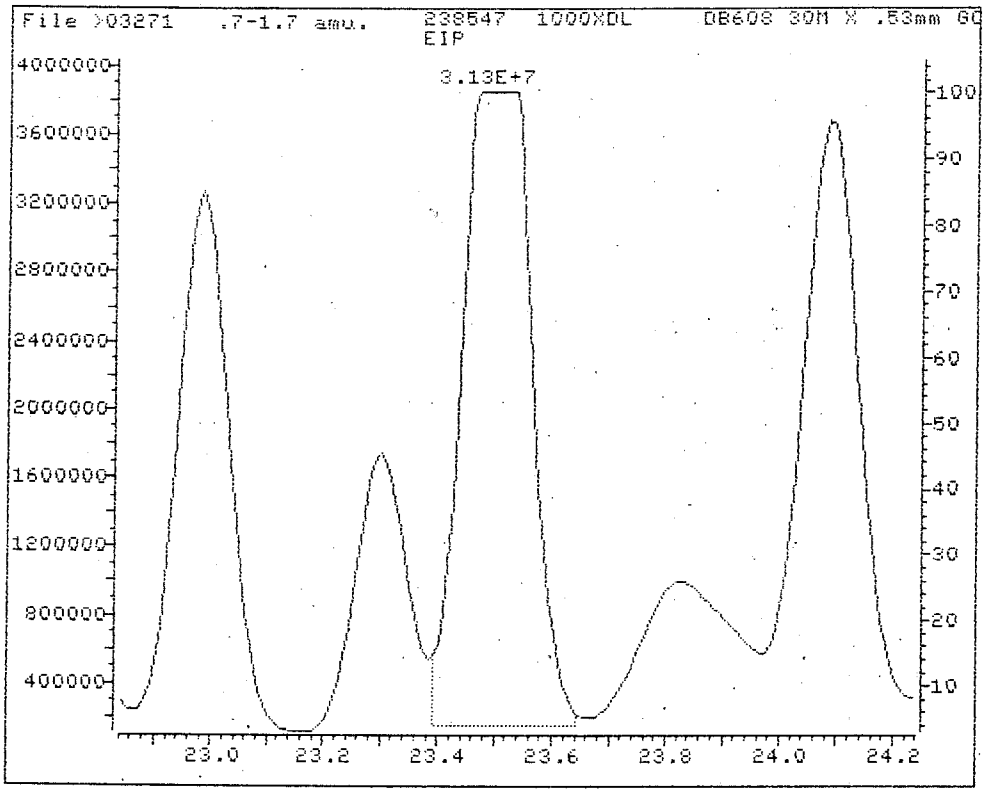
This report was produced by QAREA on: 960715 16:38



Data File: >03271::G3 Quant Output File: ^03271::GQ
Name: 238547 1000XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.
Quant Time: 960712 13:51 Quant ID File: IDCAP1::SC
Injected at: 960712 02:23 Last Calibration: 941029 10:07

Compound No: 51
Compound Name: Aroclor-1254(2)
Scan Number: 2533
Retention Time: 21.11 min.
Quant Ion: 1.0
Area: 30640244M
Concentration: 5528.86 ng/ml
q-value: 100

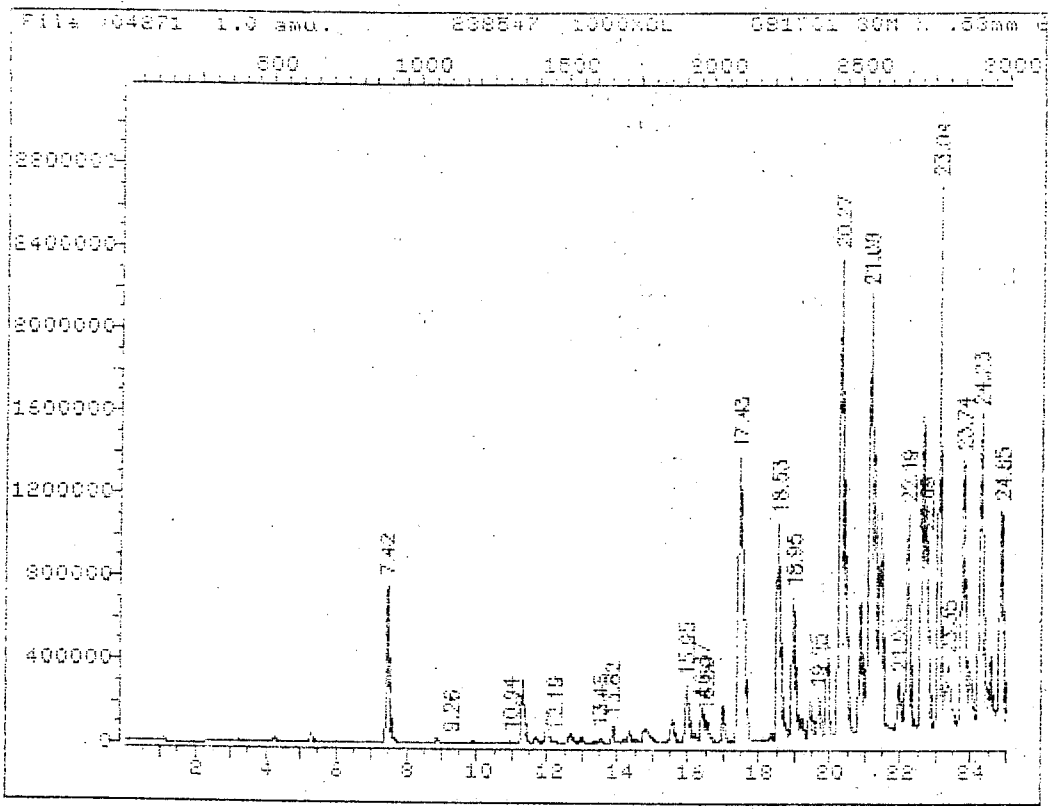
This report was produced by QAREA on: 960715 14:11



Data File: >03271::G3 Quant Output File: ^03271::GQ
Name: 238547 1000XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.
Quant Time: 960712 13:51 Quant ID File: IDCAP1::SC
Injected at: 960712 02:23 Last Calibration: 941029 10:07

Compound No: 53
Compound Name: Aroclor-1254(4)
Scan Number: 2817
Retention Time: 23.48 min.
Quant Ion: 1.0
Area: 31263544M
Concentration: 5149.58 ng/ml
q-value: 100

This report was produced by QAREA on: 960715 14:13



Data File: >04271::G1 Quant Output File: ^04271::GQ
Name: 238547 1000XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm SC58903 1ul inj.

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

Operator ID: TRFI2
Quant Time : 960712 08:12
Injected at: 960712 02:23

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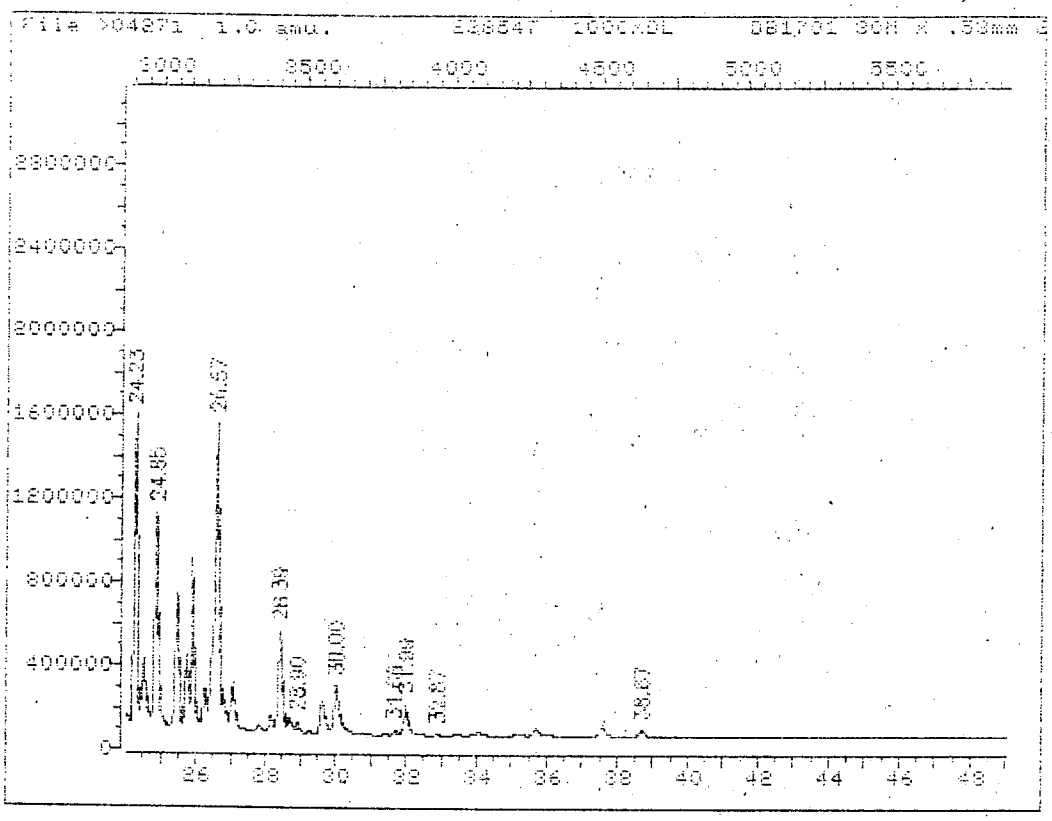

Data File: >04271::G1 Quant Output File: ^04271::GQ
Name: 238547 1000XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm SC58903 1ul inj

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941039 10:07 Last Qcal Time: 960701 21:23

Operator ID: TRFI2
Quant Time : 960712 08:12
Injected at: 960712 02:23

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QUANT REPORT

Operator ID: TRFI2
Output File: ^03271::GQ
Data File: >03271::G3
Name: 238547 1000XDL
Misc: DB608 30M X .53mm GC58903 1ul inj.

Quant Rev: 7
Quant Time: 960712 13:51
Injected at: 960712 02:23
Dilution Factor: 1.00000
Instrument ID: GC03

S6

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07
Last Qcal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.06	1087	16432	.131	ng/ml	100
2)	#~~alpha-BHC~~	12.46	1495	680422	4.60	ng/ml	100
3)	#~~beta-BHC~~	14.82	1778	1288685	15.70	ng/ml	100
5)	#~~gamma-BHC (Lindane)~~	14.29	1715	1080745	7.91	ng/ml	100
6)	#~~Heptachlor~~	16.01	1921	4732218	60.65	ng/ml	100
7)	#~~Aldrin~~	17.37	2084	252779	1.88	ng/ml	100
8)	#~~Heptachlor epoxide~~	19.93	2391	5050437	45.98	ng/ml	100
9)	#~~Endosulfan~~ I	21.70	2604	7751311	63.62	ng/ml	100
10)	#~~Dieldrin~~ NT	22.98	2758	19939916	210.89	ng/ml	100
11)	#~~4,4'-DDE~~	22.68	2722	14842974	162.26	ng/ml	100
12)	#~~Endrin~~	24.82	2978	14732956	172.13	ng/ml	100
13)	#~~Endosulfan~~ II	25.85	3102	5560431	57.73	ng/ml	100
14)	#~~4,4'-DDD~~	25.52	3062	965642	16.76	ng/ml	100
15)	#~~Endosulfan Sulfate~~	28.39	3407	490096	5.53	ng/ml	100
16)	#~~4,4'-DDT~~	27.09	3251	21586636	333.04	ng/ml	100
17)	#~~Methoxychlor~~	32.44	3893	1328875	34.23	ng/ml	100
18)	#~~Endrin ketone~~	32.88	3945	3247284	36.07	ng/ml	100
19)	#Decachlorobiphenyl	41.63	4995	861944	7.20	ng/ml	100
20)	#~~alpha-Chlordane~~ NT	21.43	2572	15771524	114.85	ng/ml	100
22)	#~~Toxaphene(1)~~ NP	23.83	2859	8906004	5553.32	ng/ml	100
23)	#~~Aroclor-1016(1)~~ NP	12.28	1474	22387	7.62	ng/ml	100
24)	#~~Aroclor-1221(1)~~ NP	8.05	966	16639	19.62	ng/ml	100
25)	#~~Aroclor-1232(1)~~ NP	12.28	1474	22387	7.81	ng/ml	100
26)	#~~Aroclor-1242(1)~~ NP	12.28	1474	22387	8.58	ng/ml	100
27)	#~~Aroclor-1248(1)~~ NP	16.01	1921	4732218	625.36	ng/ml	100
28)	#Aroclor-1254(1)	20.82	2498	24826028M	5235.96	ng/ml	
29)	#~~Aroclor-1260(1)~~ NP	24.37	2924	13666318	1762.93	ng/ml	100
30)	#~~Endrin aldehyde~~ NT	27.68	3321	2937502	37.24	ng/ml	100
31)	#~~Toxaphene(2)~~ NP	27.68	3321	2950672	1603.50	ng/ml	100
32)	#~~Toxaphene(3)~~ NP	28.39	3407	490096	196.08	ng/ml	100
34)	#~~Aroclor-1016(2)~~ NP	14.29	1715	1080745	165.33	ng/ml	100
35)	#~~Aroclor-1016(3)~~ NP	16.01	1921	4732218	428.42	ng/ml	100
36)	#~~Aroclor-1016(4)~~ NP	16.76	2011	872932	233.74	ng/ml	100
37)	#~~Aroclor-1016(5)~~ NP	18.99	2279	14957866	4402.40	ng/ml	100
38)	#~~Aroclor-1221(2)~~ NP	11.25	1350	71759	42.71	ng/ml	100
39)	#~~Aroclor-1221(3)~~ NP	12.28	1474	22387	5.87	ng/ml	100
40)	#~~Aroclor-1232(2)~~ NP	14.29	1715	1080745	382.97	ng/ml	100
41)	#~~Aroclor-1232(3)~~ NP	16.01	1921	4732218	1005.86	ng/ml	100
42)	#~~Aroclor-1232(4)~~ NP	16.76	2011	872932	507.01	ng/ml	100
43)	#~~Aroclor-1242(2)~~ NP	14.29	1715	1080745	200.79	ng/ml	100

7/19/96

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 13:51
Output File: ^03271::GQ Injected at: 960712 02:23
Data File: >03271::G3 Dilution Factor: 1.00000
Name: 238547 1000XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Compound	R.T.	Scan#	Area	Conc	Units	q
44) #Aroclor-1242(3) NP	16.01	1921	4732218	530.91	ng/ml	100
45) #Aroclor-1242(4) NP	16.76	2011	872932	275.99	ng/ml	100
46) #Aroclor-1242(5) NP	18.99	2279	14957866	5004.37	ng/ml	100
47) #Aroclor-1248(2) NP	17.52	2102	14339100	5497.41	ng/ml	100
48) #Aroclor-1248(3) NP	18.99	2279	14957866	3602.01	ng/ml	100
49) #Aroclor-1248(4) NP	20.45	2454	9534258	1967.84	ng/ml	100
50) #Aroclor-1248(5) NP	21.70	2604	7587484	1376.22	ng/ml	100
51) #Aroclor-1254(2)	21.11	2533	30640244M	5528.86	ng/ml	100
52) #Aroclor-1254(3)	22.68	2722	14842974	9205.52	ng/ml	100
53) #Aroclor-1254(4)	23.48	2817	31263544M	5149.58	ng/ml	100
54) #Aroclor-1254(5)	24.82	2978	14732956	4108.90	ng/ml	100
55) #Aroclor-1260(2) NP	24.82	2978	14732956	2103.39	ng/ml	100
56) #Aroclor-1260(3) NP	26.52	3182	11335836	2171.51	ng/ml	100
57) #Aroclor-1260(4) NP	30.12	3614	5951659	550.84	ng/ml	100
58) #Aroclor-1260(5) NP	32.88	3945	3201823	579.94	ng/ml	100

Compound uses ESTD

7/19/96

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 08:12
Output File: ^04271::G0 Injected at: 960712 02:23
Data File: >04271::G1 Dilution Factor: 1.00000
Name: 238647 1000XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm JJ58903 1ul inj.

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Tetrachloro-m-xylene	9.26	1111	5590	.135	ng/ml	100
2) #alpha-BHC	13.48	1618	126464	3.86	ng/ml	100
3) #beta-BHC	18.53	2223	7661249	291.57	ng/ml	100
4) #delta-BHC	19.65	2358	1085451	44.55	ng/ml	100
6) #Heptachlor	16.37	1965	878770	18.53	ng/ml	100
7) #Aldrin	17.43	2091	14044652	372.93	ng/ml	100
9) #Endosulfan I	21.95	2634	1302575	36.48	ng/ml	100
10) #Dieldrin	23.35	2802	1944998	59.89	ng/ml	100
11) #4,4'-DDE	22.69	2723	5019744	180.83	ng/ml	100
12) #Endrin	24.23	2907	10612900	366.11	ng/ml	100
13) #Endosulfan II	26.57	3188	11641726	325.28	ng/ml	100
14) #4,4'-DDD	26.57	3188	11428424	540.84	ng/ml	100
18) #Endrin ketone	32.87	3944	61167	2.17	ng/ml	100
19) #Decachlorobiphenyl	38.67	4640	333450	7.14	ng/ml	100
20) #alpha-Chlordane NT	22.19	2663	6332454	151.84	ng/ml	100
21) #gamma-Chlordane NT	21.95	2634	1302575	32.59	ng/ml	100
23) #Aroclor-1016(1) NP	12.19	1463	65212	52.80	ng/ml	100
24) #Aroclor-1221(1) NP	7.42	890	3875282	4900.27	ng/ml	100
25) #Aroclor-1232(1) NP	7.42	890	3875282	3254.38	ng/ml	100
26) #Aroclor-1242(1) NP	12.19	1463	65212	61.64	ng/ml	100
27) #Aroclor-1248(1) NP	13.82	1659	473022	429.44	ng/ml	100
28) #Aroclor-1254(1)	17.43	2091	14044652	8840.68	ng/ml	100
29) #Aroclor-1260(1) NP	23.74	2849	9813144	3814.67	ng/ml	100
30) #Endrin aldehyde NT	28.90	3468	420692	13.85	ng/ml	100
31) #Toxaphene(2)	28.39	3407	3600363	4995.37	ng/ml	100
33) #Toxaphene(4)	31.66	3799	195594	389.79	ng/ml	100
34) #Aroclor-1016(2)	13.82	1659	473022	193.49	ng/ml	100
35) #Aroclor-1016(3)	15.95	1914	1911072	492.65	ng/ml	100
36) #Aroclor-1016(4)	16.50	1980	681153	467.72	ng/ml	100
37) #Aroclor-1016(5)	18.53	2223	7646731	3710.79	ng/ml	100
38) #Aroclor-1221(2)	10.94	1313	39903	60.84	ng/ml	100
39) #Aroclor-1221(3)	12.19	1463	65212	38.02	ng/ml	100
40) #Aroclor-1232(2)	12.19	1463	65212	55.67	ng/ml	100
41) #Aroclor-1232(3)	13.82	1659	473022	459.38	ng/ml	100
42) #Aroclor-1232(4)	15.95	1914	1911072	1223.36	ng/ml	100
43) #Aroclor-1242(2)	13.82	1659	473022	238.14	ng/ml	100
44) #Aroclor-1242(3)	15.95	1914	1911072	619.84	ng/ml	100
45) #Aroclor-1242(4)	16.50	1980	681153	595.94	ng/ml	100
46) #Aroclor-1242(5)	17.43	2091	14044652	17750.18	ng/ml	100
47) #Aroclor-1248(2) NP	15.95	1914	1911072	731.57	ng/ml	100

NT (compounds 2–18, bracketed)
NP (compounds 31–33, 34–37, 38–39, 40–42, 43–46, bracketed)

Elua
7/13/94

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 08:12
Output File: 104271::GQ Injected at: 960712 02:23
Data File: 104271::G1 Dilution Factor: 1.00000
Name: TF3547 1000XDL Instrument ID: GC04
Disc: DB1701 30M X .53mm GC58903 1ul inj.

ID File: IDCAPZ::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
48)	#~~Aroclor-1248(3)~~	18.53	2223	7646761	3103.80	ng/ml	100
49)	#~~Aroclor-1248(4)~~	18.95	2274	4361780	2470.76	ng/ml	100
50)	#~~Aroclor-1248(5)~~	20.27	2432	16026646	16697.90	ng/ml	100
51)	#Aroclor-1254(2)	20.27	2432	16026646	7882.63	ng/ml	100
52)	#Aroclor-1254(3)	21.39	2530	15270004	7235.51	ng/ml	100
53)	#Aroclor-1254(4)	23.04	2765	16694260	6547.54	ng/ml	100
54)	#Aroclor-1254(5)	23.74	2849	8813144	6498.12	ng/ml	100
55)	#~~Aroclor-1260(2)~~	24.85	2982	7322998	2697.13	ng/ml	100
56)	#~~Aroclor-1260(3)~~	28.39	3407	5610142	2034.07	ng/ml	100
57)	#~~Aroclor-1260(4)~~	30.00	3600	2602584	661.97	ng/ml	100
58)	#~~Aroclor-1260(5)~~	31.99	3838	1709085	688.19	ng/ml	100

UP

Compound uses ESTD

EPui
7/13/96

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S6	DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Matrix: (soil/water) SOIL Lab Sample ID: 238547

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 03284

% Moisture: 13. decanted: (Y/N) N Date Received: 06/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/03/96

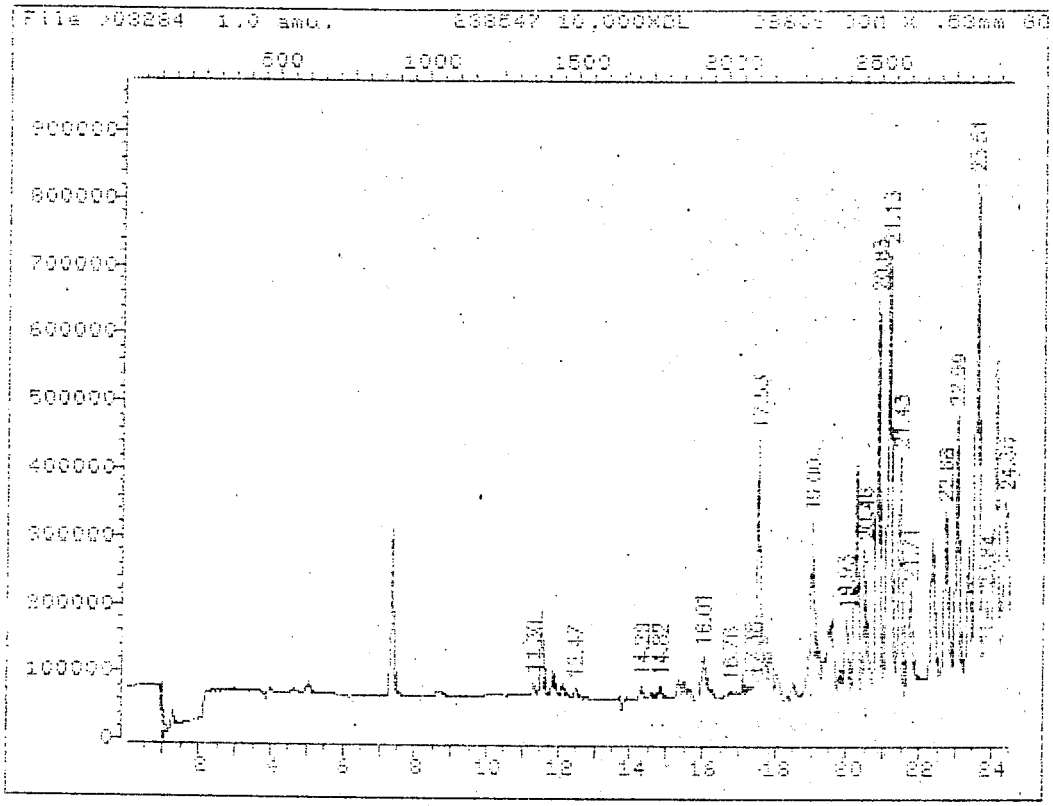
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/12/96

Injection Volume: 1.0 (uL) Dilution Factor: 10000.0

GPC Cleanup: (Y/N) Y pH: 8.2 Sulfur Cleanup: (Y/N) N

Do not use these data.

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	19000.	U
319-85-7	beta-BHC	19000.	U
319-86-8	delta-BHC	19000.	U
58-89-9	gamma-BHC (Lindane)	19000.	U
76-44-8	Heptachlor	19000.	U
309-00-2	Aldrin	19000.	U
1024-57-3	Heptachlor epoxide	19000.	U
959-98-8	Endosulfan I	19000.	U
60-57-1	Dieldrin	38000.	U
72-55-9	4,4'-DDE	38000.	U
72-20-8	Endrin	38000.	U
33213-65-9	Endosulfan II	38000.	U
72-54-8	4,4'-DDD	38000.	U
1031-07-8	Endosulfan Sulfate	38000.	U
50-29-3	4,4'-DDT	38000.	U
72-43-5	Methoxychlor	190000.	U
53494-70-5	Endrin ketone	38000.	U
7421-93-4	Endrin aldehyde	38000.	U
5103-71-9	alpha-Chlordane	19000.	U
5103-74-2	gamma-Chlordane	19000.	U
8001-35-2	Toxaphene	1900000.	U
12674-11-2	Aroclor-1016	380000.	U
11104-28-2	Aroclor-1221	770000.	U
11141-16-5	Aroclor-1232	380000.	U
53469-21-9	Aroclor-1242	380000.	U
12672-29-6	Aroclor-1248	380000.	U
11097-69-1	Aroclor-1254	3000000.	D
11096-82-5	Aroclor-1260	380000.	U

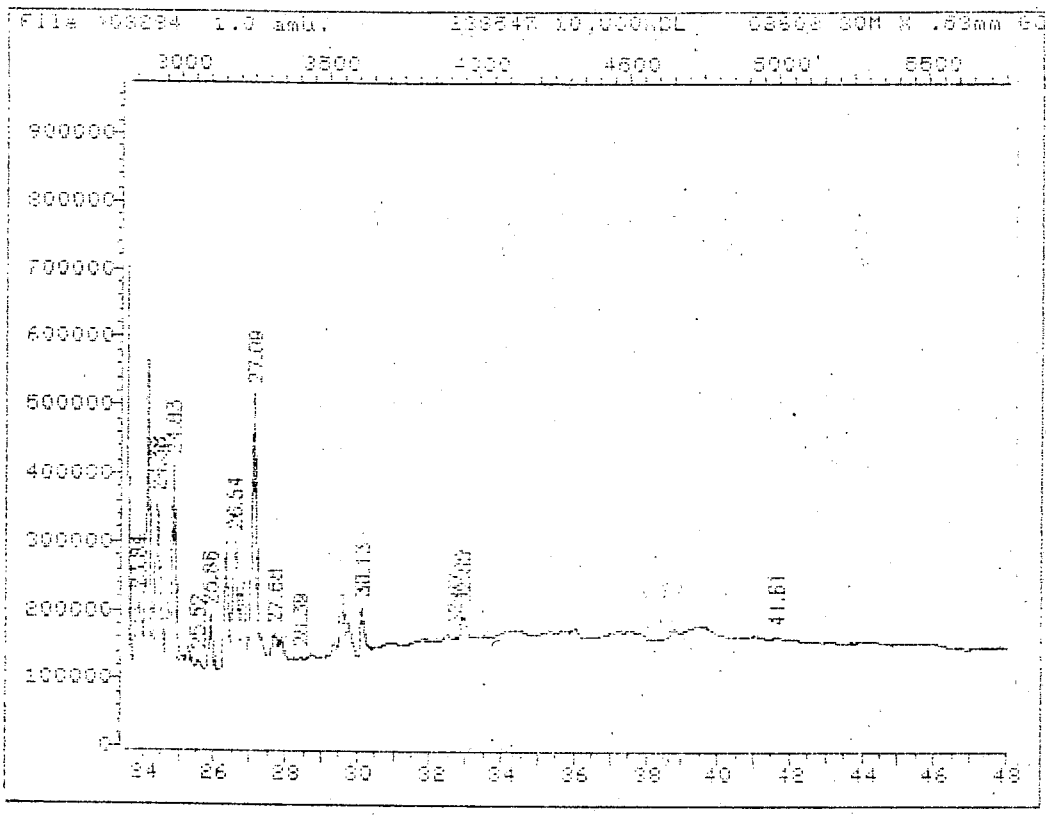


Data File: >03284::F5 Quant Output File: `03284::G0
Name: 238547 10,000XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58905 1ul inj.

Id File: IDCAP1::GC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Cal Time: 960702 00:13

Operator ID: TRFIZ
Quant Time : 960712 14:43
Injected at: 960712 13:51

Page 1 of 2



Data File: >03284::F3 Quant Output File: ^03284::GQ
Name: 258547 10,000XDL Instrument ID: GC03
Misc: DB608 30M X .53mm 3C58903 1ul inj.

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Cal Time: 960702 00:13

Operator ID: TRFI2
Quant Time: 960712 14:43
Injected at: 960712 13:51

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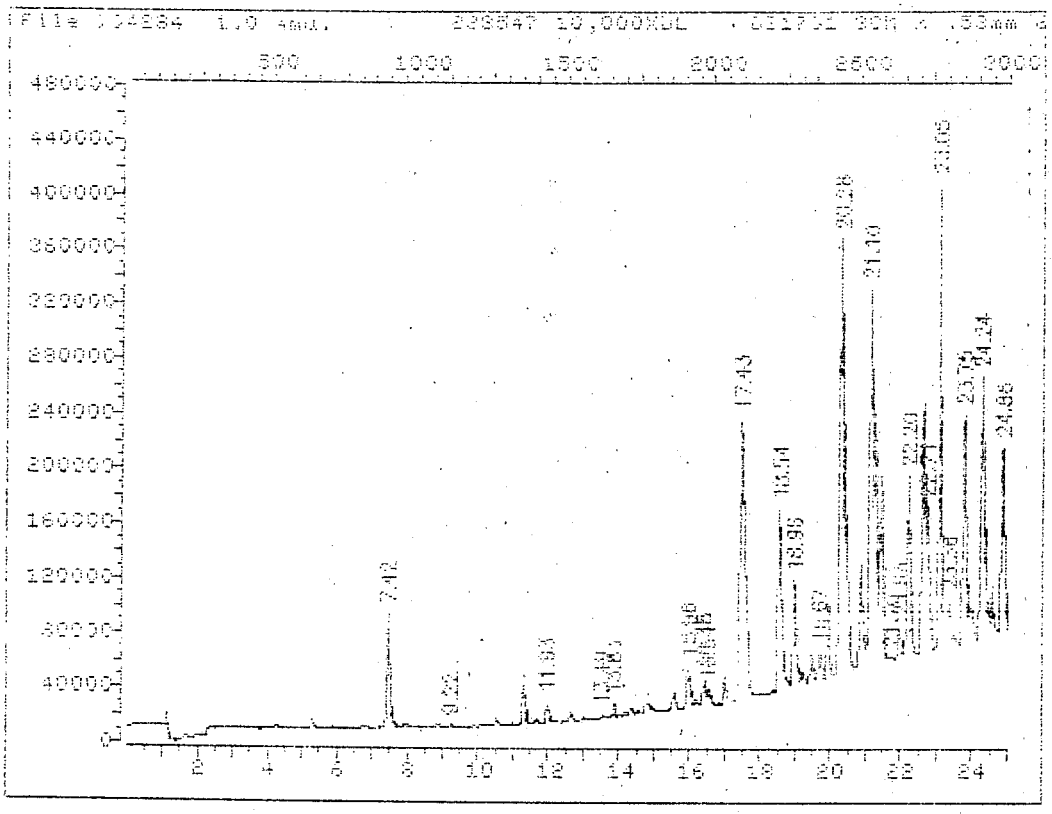

Data File: ^04284::G1 Quant Output File: ^04284::GQ
Name: 238547 10.000XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm GC59903 1ul inj.

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941025 10:07 Last Cal Time: 960701 21:23

Operator ID: TRFI2
Quant Time : 960712 14:48
Injected at: 960712 13:51

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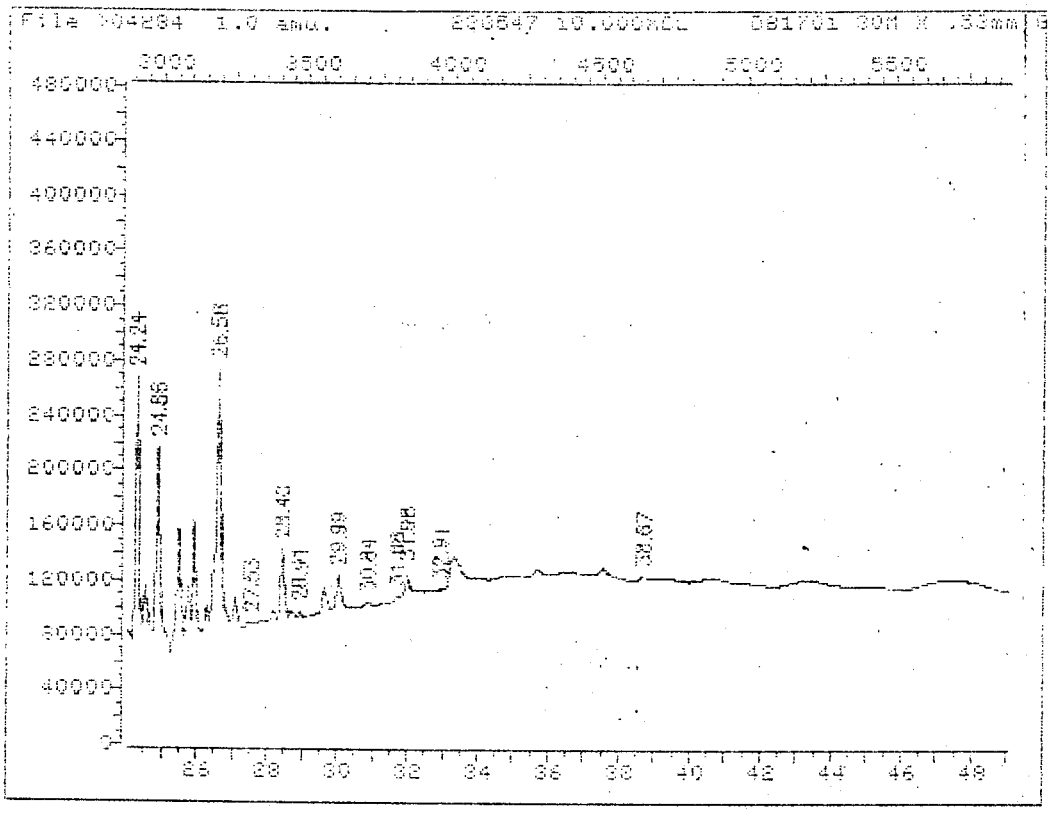

Data File: >04284::G1 Quant Output File: ^04284::GQ
Name: C58547 10.000XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm SC58903 1ul inj.

Id File: IDCAPZ::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

Operator ID: TRFIZ
Quant Time : 960712 14:48
Injected at: 960712 15:51

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QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 14:43
Output File: 03284::G3 Injected at: 960712 13:51
Data File: 03284::F3 Dilution Factor: 1.00000
Meth: 238547 10,000\DL Instrument ID: GC03
Misc: DB608 30M X .53mm 0258903 1ul inj.

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Cal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
2)	~~#Alpha-BHC~~	12.47	1496	94508	.698	ng/ml	100
3)	~~#Beta-BHC~~	14.82	1778	124386	1.52	ng/ml	100
5)	~~#Gamma-BHC (Lindane)~~	14.29	1715	98567	.721	ng/ml	100
6)	~~#Heptachlor~~	16.01	1921	558304	7.16	ng/ml	100
	~~#Aldrin~~	17.38	2085	19471	.219	ng/ml	100
9)	~~#Heptachlor epoxide~~	19.93	2392	566605	5.16	ng/ml	100
	~~#Endosulfan I~~	21.71	2605	1397948	11.47	ng/ml	100
10)	~~#Dieldrin~~	22.99	2759	2323110	24.57	ng/ml	100
11)	~~#4,4'-DDE~~	22.68	2722	1758245	19.22	ng/ml	100
12)	~~#Endrin~~	24.83	2979	1905090	22.26	ng/ml	100
13)	~~#Endosulfan II~~	25.86	3103	526059	5.46	ng/ml	100
14)	~~#4,4'-DDD~~	25.52	3062	106449	1.85	ng/ml	100
15)	~~#Endosulfan Sulfate~~	28.39	3407	27555	.311	ng/ml	100
16)	~~#4,4'-DDT~~	27.09	3251	2913808	44.95	ng/ml	100
18)	~~#Endrin Ketone~~	32.67	3920	24066	.267	ng/ml	100
19)	#Decachlorobiphenyl	41.61	4993	22531	.188	ng/ml	100
20)	~~#alpha-Chlordane~~ NT	21.43	2572	2073119	15.10	ng/ml	100
21)	~~#gamma-Chlordane~~ NT	20.83	2499	3566635	30.27	ng/ml	100
22)	~~#Toxaphene(1)~~ NP	23.84	2861	941483	587.06	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.47	1496	94508	32.15	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	12.47	1496	94508	32.99	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.47	1496	94508	36.23	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	16.01	1921	558304	73.78	ng/ml	100
28)	#Aroclor-1254(1)	20.83	2499	3566635	752.22	ng/ml	100
29)	~~#Aroclor-1260(1)~~	24.58	2925	1785478	230.32	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	27.68	3321	279576	3.54	ng/ml	100
31)	~~#Toxaphene(2)~~ NP	27.68	3321	277133	150.60	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	28.39	3407	27555	11.02	ng/ml	100
34)	~~#Aroclor-1016(2)~~ NP	14.29	1715	98567	15.08	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	16.01	1921	558304	50.54	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.76	2011	106767	28.59	ng/ml	100
37)	~~#Aroclor-1016(5)~~ NP	19.00	2280	1863220	546.38	ng/ml	100
38)	~~#Aroclor-1221(2)~~ NP	11.30	1356	93368	55.57	ng/ml	100
39)	~~#Aroclor-1221(3)~~ NP	12.47	1496	94508	24.77	ng/ml	100
40)	~~#Aroclor-1232(2)~~ NP	14.29	1715	98567	34.93	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	16.01	1921	558304	118.67	ng/ml	100
42)	~~#Aroclor-1232(4)~~ NP	16.76	2011	106767	62.01	ng/ml	100
43)	~~#Aroclor-1242(2)~~ NP	14.29	1715	98567	18.31	ng/ml	100
44)	~~#Aroclor-1242(3)~~ NP	16.01	1921	558304	62.64	ng/ml	100
45)	~~#Aroclor-1242(4)~~ NP	16.76	2011	106767	33.76	ng/ml	100

EPrui
7/13/96

QUANT REPORT

Operator ID: TRFIZ
Output File: ^05284::GQ
Data File: >05284::F3
Name: J8547 10,000XDL
Disc: DB60: 30M X .53mm GC58907 (ul inj).

Quant Rev: 7
Quant Time: 960712 14:43
Injected at: 960712 13:51
Dilution Factor: 1.00000
Instrument ID: GC03

ID File: IDCRP1::SC
Title: Capillary Column DB 608
Last Calibration: 941027 10:07
Last Inst Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
46)	#~~Aroclor-1242(5)~~ NP	19.00	2280	1863220	623.57	ng/ml	100
47)	#~~Aroclor-1248(5)~~ NP	17.53	2103	2361934	905.53	ng/ml	100
48)	#~~Aroclor-1248(3)~~ NP	19.00	2280	1863220	448.68	ng/ml	100
49)	#~~Aroclor-1248(4)~~ NP	20.46	2455	1164421	240.33	ng/ml	100
50)	#~~Aroclor-1248(5)~~ NP	21.71	2605	1197948	253.56	ng/ml	100
51)	#Aroclor-1254(2) OKEP	21.13	2535	4506449	813.16	ng/ml	100
52)	#Aroclor-1254(3)	22.68	2722	1759245	1090.45	ng/ml	100
53)	#Aroclor-1254(4)	23.51	2821	4591766	756.33	ng/ml	100
54)	#Aroclor-1254(5)	24.83	2979	1887214	526.33	ng/ml	100
55)	#~~Aroclor-1260~~(2) NP	24.83	2979	1887214	269.43	ng/ml	100
56)	#~~Aroclor-1260~~(3) NP	26.54	3184	1399739	268.14	ng/ml	100
57)	#~~Aroclor-1260~~(4) NP	30.13	3615	576333	53.54	ng/ml	100
58)	#~~Aroclor-1260~~(5) NP	32.89	3946	291513	52.80	ng/ml	100

Compound uses ESTD

EPrui
EP 10/13/96

QUA T REPORT Page 1

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 14:48
Output File: ^04284::G0 Injected at: 960710 13:51
Data File: >04284::G1 Dilution Factor: 1.00000
Name: 238547 10.000XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm SC58903 1ul inj.

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

	Compound		R.T.	Scan#	Area	Conc	Units	q
1)	#~~Tetrachloro-m-xylene~~	mopk	9.22	1106	5014	.121	ng/ml	100
2)	#~~alpha-BHC~~	NT	13.49	1619	13151	.401	ng/ml	100
3)	#~~beta-BHC~~		18.54	2225	966426	36.78	ng/ml	100
4)	#~~delta-BHC~~		19.67	2360	127717	5.24	ng/ml	100
6)	#~~Heptachlor~~		16.38	1966	113852	2.40	ng/ml	100
7)	#~~Aldrin~~		17.43	2092	2075837	55.12	ng/ml	100
9)	#~~Endosulfan I~~		21.70	2604	5064	.142	ng/ml	100
10)	#~~Dieldrin~~		23.36	2803	232322	7.15	ng/ml	100
11)	#~~4,4'-DDE~~		22.71	2725	588154	21.19	ng/ml	100
12)	#~~Endrin~~		24.24	2909	1378955	47.57	ng/ml	100
13)	#~~Endosulfan II~~		26.58	3189	1536240	42.92	ng/ml	100
14)	#~~4,4'-DDD~~		26.58	3189	1512786	71.59	ng/ml	100
16)	#~~4,4'-DDT~~		27.53	3303	24081	1.46	ng/ml	100
17)	#~~Methoxychlor~~		30.84	3701	38973	2.90	ng/ml	100
18)	#~~Endrin ketone~~		32.91	3949	6850	.243	ng/ml	100
19)	#~~Decachlorobiphenyl~~	mopk	38.67	4640	35107	.752	ng/ml	100
20)	#~~alpha-Chlordane~~	NT	22.20	2664	775225	18.59	ng/ml	100
21)	#~~gamma-Chlordane~~	NT	21.96	2635	145033	3.63	ng/ml	100
23)	#~~Aroclor-1016(1)~~		11.93	1432	87771	71.07	ng/ml	100
24)	#~~Aroclor-1221(1)~~	NP	7.42	891	443148	560.56	ng/ml	100
25)	#~~Aroclor-1232(1)~~	NP	7.42	891	443148	372.15	ng/ml	100
26)	#~~Aroclor-1242(1)~~	NP	11.93	1432	87771	82.96	ng/ml	100
27)	#~~Aroclor-1248(1)~~	NP	13.83	1660	52090	47.28	ng/ml	100
28)	#Aroclor-1254(1)		17.43	2092	2075837	1306.68	ng/ml	100
29)	#~~Aroclor-1260(1)~~	NP	23.75	2850	1128358	488.39	ng/ml	100
30)	#~~Endrin aldehyde~~	NT	28.91	3469	37496	1.23	ng/ml	100
31)	#~~Toxaphene(2)~~	NP	28.40	3408	373117	517.69	ng/ml	100
33)	#~~Toxaphene(4)~~	NP	31.68	3801	43968	87.66	ng/ml	100
34)	#~~Aroclor-1016(2)~~	NP	13.83	1660	52080	21.30	ng/ml	100
35)	#~~Aroclor-1016(3)~~	NP	15.96	1915	210283	54.21	ng/ml	100
36)	#~~Aroclor-1016(4)~~	NP	16.51	1981	62890	43.18	ng/ml	100
37)	#~~Aroclor-1016(5)~~	NP	18.54	2225	966426	468.98	ng/ml	100
39)	#~~Aroclor-1221(3)~~	NP	11.93	1432	87771	51.17	ng/ml	100
40)	#~~Aroclor-1232(2)~~	NP	11.93	1432	87771	74.92	ng/ml	100
41)	#~~Aroclor-1232(3)~~	NP	13.83	1660	52080	50.58	ng/ml	100
42)	#~~Aroclor-1232(4)~~	NP	15.96	1915	210283	134.61	ng/ml	100
43)	#~~Aroclor-1242(2)~~	NP	13.83	1660	52080	26.22	ng/ml	100
44)	#~~Aroclor-1242(3)~~	NP	15.96	1915	210283	68.20	ng/ml	100
45)	#~~Aroclor-1242(4)~~	NP	16.51	1981	62890	55.02	ng/ml	100
46)	#~~Aroclor-1242(5)~~	NP	17.43	2092	2075837	2623.52	ng/ml	100

EPmi

7/13/94

QUANT REPORT

Operator ID: [illegible] Quant Rev: 7 Quant Time: 960712 14:48
Output File: [illegible] Injected at: 960712 13:51
Data File: [illegible] Dilution Factor: 1.00000
Name: 132547 [illegible] Instrument ID: GC04
Misc: DB1701 30M X .53mm GC56923 1ul inj

ID File: IDCA.2r:SC
Title: Capillary Column DB1701
Last Calibration: 941022 10:07 Last Cal Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
47)	~~#Aroclor-1248~~(2) ND	15.96	1915	210283	80.50	ng/ml	100
48)	~~#Aroclor-1248~~(3) ND	18.34	2225	966426	392.27	ng/ml	100
49)	~~#Aroclor-1248~~(4) ND	18.96	2275	438578	276.76	ng/ml	100
50)	~~#Aroclor-1248~~(5) ND	20.28	2434	2199960	2281.68	ng/ml	100
51)	#Aroclor-1254(2)	20.28	2434	2199960	1377.12	ng/ml	100
52)	#Aroclor-1254(3)	21.10	2532	1570325	856.22	ng/ml	100
53)	#Aroclor-1254(4)	23.05	2766	2136526	837.87	ng/ml	100
54)	#Aroclor-1254(5)	23.75	2850	1128338	831.95	ng/ml	100
55)	~~#Aroclor-1260~~(2) ND	24.86	2983	1208390	445.06	ng/ml	100
56)	~~#Aroclor-1260~~(3) ND	28.40	3408	370204	208.58	ng/ml	100
57)	~~#Aroclor-1260~~(4) ND	29.99	3599	216687	55.11	ng/ml	100
58)	~~#Aroclor-1260~~(5) ND	31.98	3837	21552	86.78	ng/ml	100

Compound uses ESTD

EPrice
7/13/96

QUANT REPORT

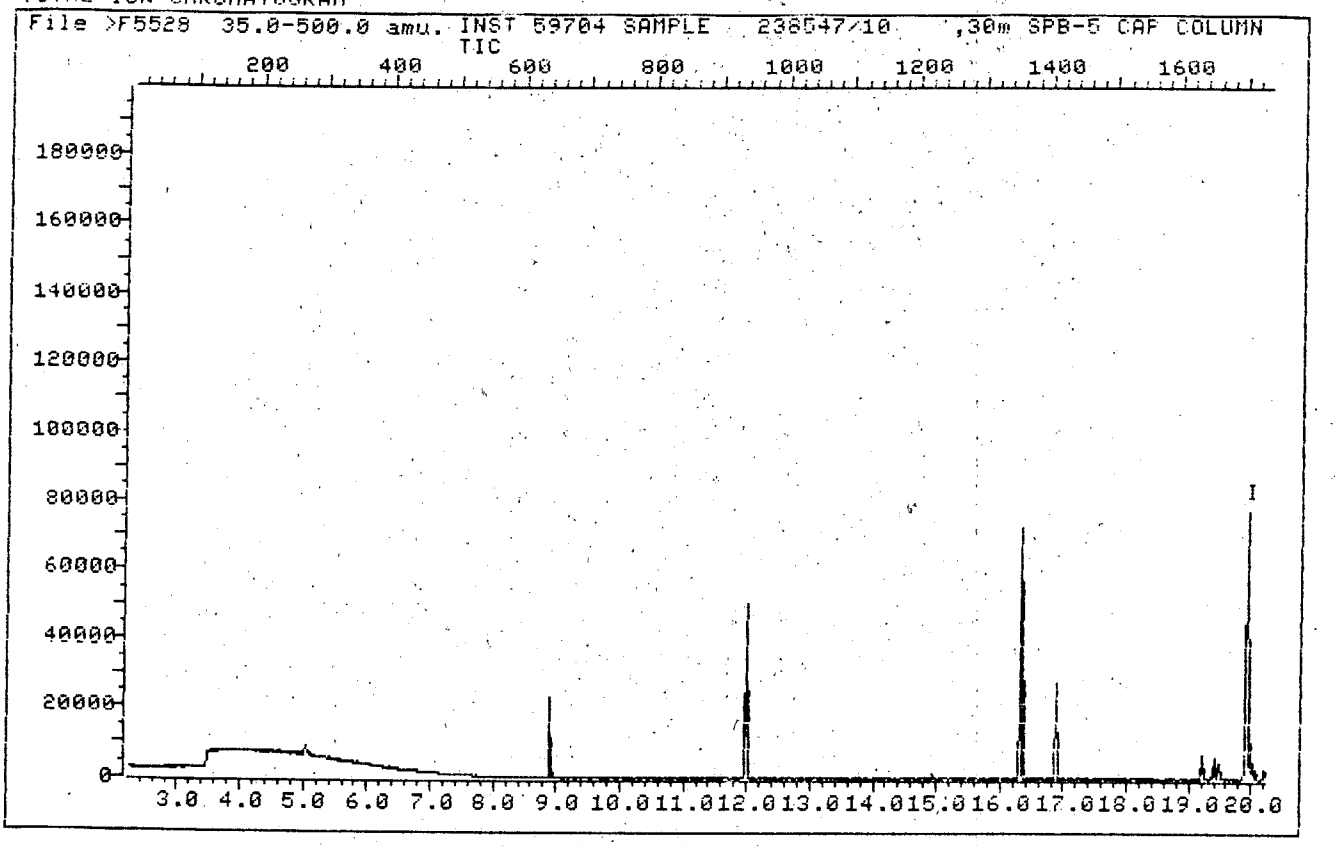
Operator ID: GT0101 Quant Rev: 7 Quant Time: 960709 14:55
Output File: ^F5528::QT Injected at: 960709 14:17
Data File: >F5528::F1 Dilution Factor: 1.00000
Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 238547/10 ,30m SPB-5 CAP COLUMN BTL# 6

ID File: IDPEST::SC
Title: CLP PESTICIDE CONFIRMATION FILE
Last Calibration: : Last Qcal Time: 960705 12:13

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *Phenanthrene-d10	19.91	188.0	54580	40.00	UG/ML	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



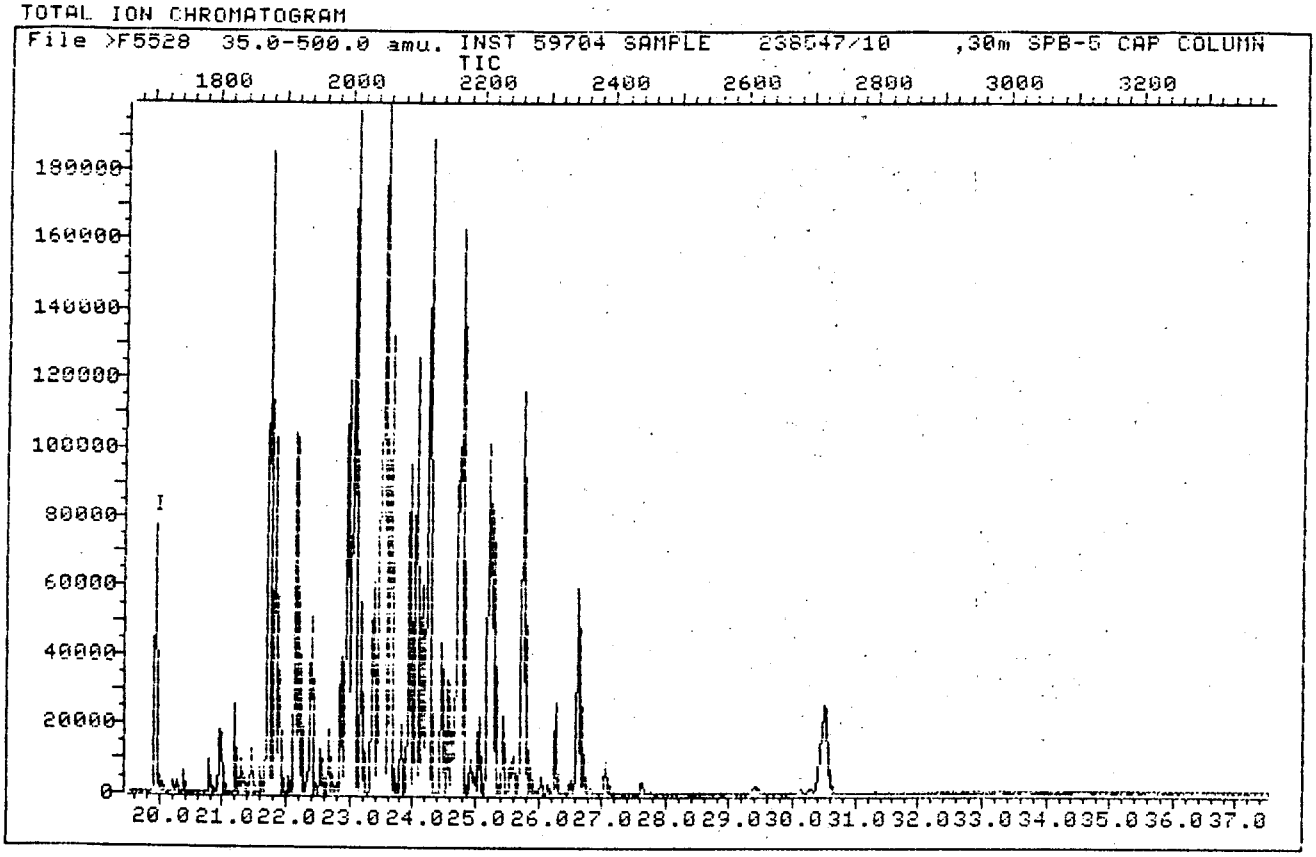
Data File: >F5528::F1 Quant Output File: ^F5528::QT
Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 238547/10 ,30m SPB-5 CAP COLUMN BTL# 6

Id File: IDPEST::SC
Title: CLF PESTICIDE CONFIRMATION FILE
Last Calibration: Last Qcal Time: 960705 12:13

Operator ID: GT0101
Quant Time : 960709 14:55
Injected at: 960709 14:17

Page 1 of 2

TOTAL ION CHROMATOGRAM

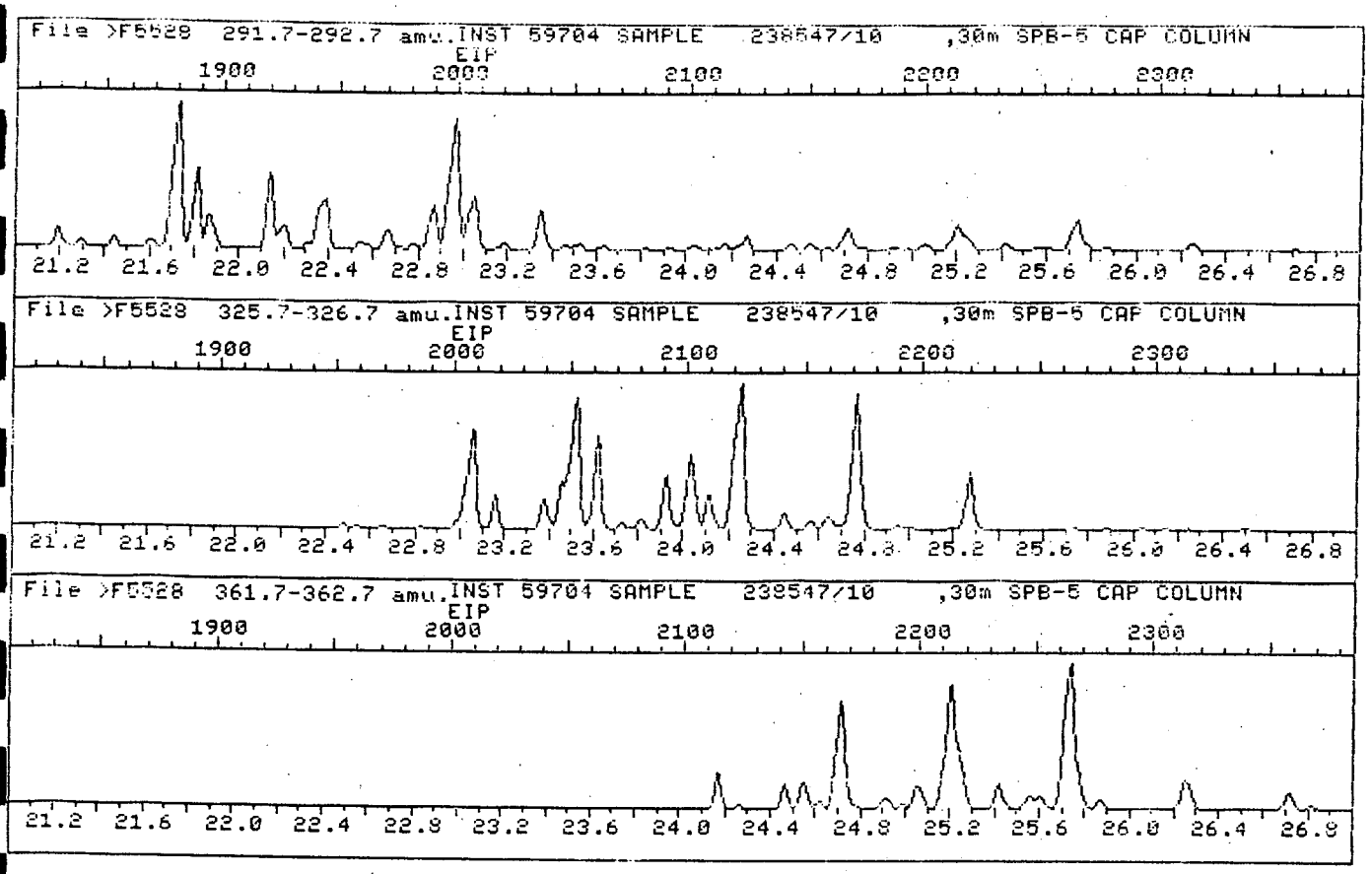


Data File: >F5528::F1 Quant Output File: ^F5528::QT
Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 238547/10 ,30m SPB-5 CAP COLUMN BTL# 6

Id File: IDPEST::SC
Title: CLP PESTICIDE CONFIRMATION FILE
Last Calibration: : Last Qcal Time: 960705 12:13

Operator ID: GT0101
Quant Time : 960709 14:55
Injected at: 960709 14:17

Page 2 of 2



MS data file header from : >F5528::F1

Sample: INST 59704 SAMPLE Operator: GT0101 SUPER GRP. 7/09/96 14:17
Misc : 238547/10 ,30m SPB-5 CAP COLUMN BTL# 6
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 6 Equip ID: INST F
Method file: BNP4 Tuning file: MTA004 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	40.	280.	300.	0.	0.
Chromatographic times, min. :	4.0	1.0	20.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	10.0	0.0	0.0	0.0

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S7

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Matrix: (soil/water) SOIL Lab Sample ID: 238551

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 03279

% Moisture: 23. decanted: (Y/N) N Date Received: 06/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/03/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/12/96

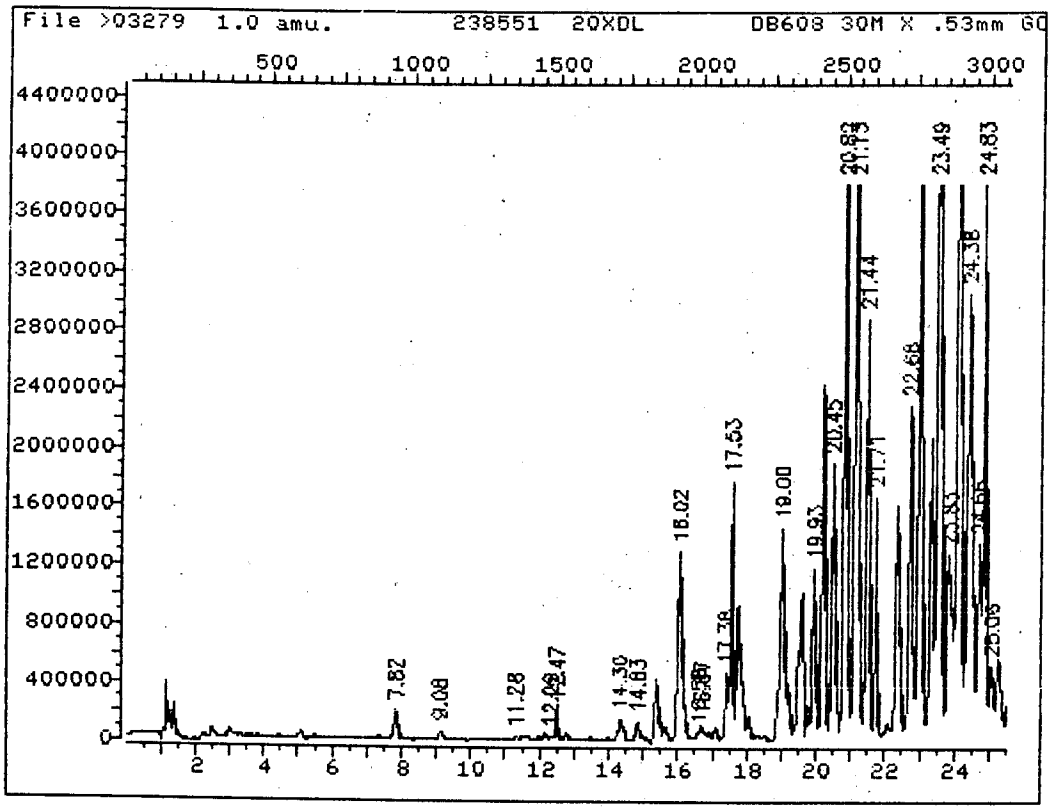
Injection Volume: 1.0 (uL) Dilution Factor: 20.0

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

Use these data.

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	44.	U
319-85-7	beta-BHC	44.	U
319-86-8	delta-BHC	44.	U
58-89-9	gamma-BHC (Lindane)	44.	U
76-44-8	Heptachlor	44.	U
309-00-2	Aldrin	44.	U
1024-57-3	Heptachlor epoxide	44.	U
959-98-8	Endosulfan I	44.	U
60-57-1	Dieldrin	85.	U
72-55-9	4,4'-DDE	85.	U
72-20-8	Endrin	85.	U
33213-65-9	Endosulfan II	85.	U
72-54-8	4,4'-DDD	85.	U
1031-07-8	Endosulfan Sulfate	85.	U
50-29-3	4,4'-DDT	85.	U
72-43-5	Methoxychlor	440.	U
53494-70-5	Endrin ketone	85.	U
7421-93-4	Endrin aldehyde	85.	U
5103-71-9	alpha-Chlordane	44.	U
5103-74-2	gamma-Chlordane	44.	U
8001-35-2	Toxaphene	4400.	U
12674-11-2	Aroclor-1016	850.	U
11104-28-2	Aroclor-1221	1700.	U
11141-16-5	Aroclor-1232	850.	U
53469-21-9	Aroclor-1242	850.	U
12672-29-6	Aroclor-1248	850.	U
11097-69-1	Aroclor-1254	100000 ~~60000.~~	E J D*
11096-82-5	Aroclor-1260	850.	U

D* value transferred from diluted analysis S7 DL 200 x DIF



Data File: >03279::G4 Quant Output File: ^03279::GQ
Name: 238551 20XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Operator ID: TRFI2
Quant Time : 960712 14:56
Injected at: 960712 09:16

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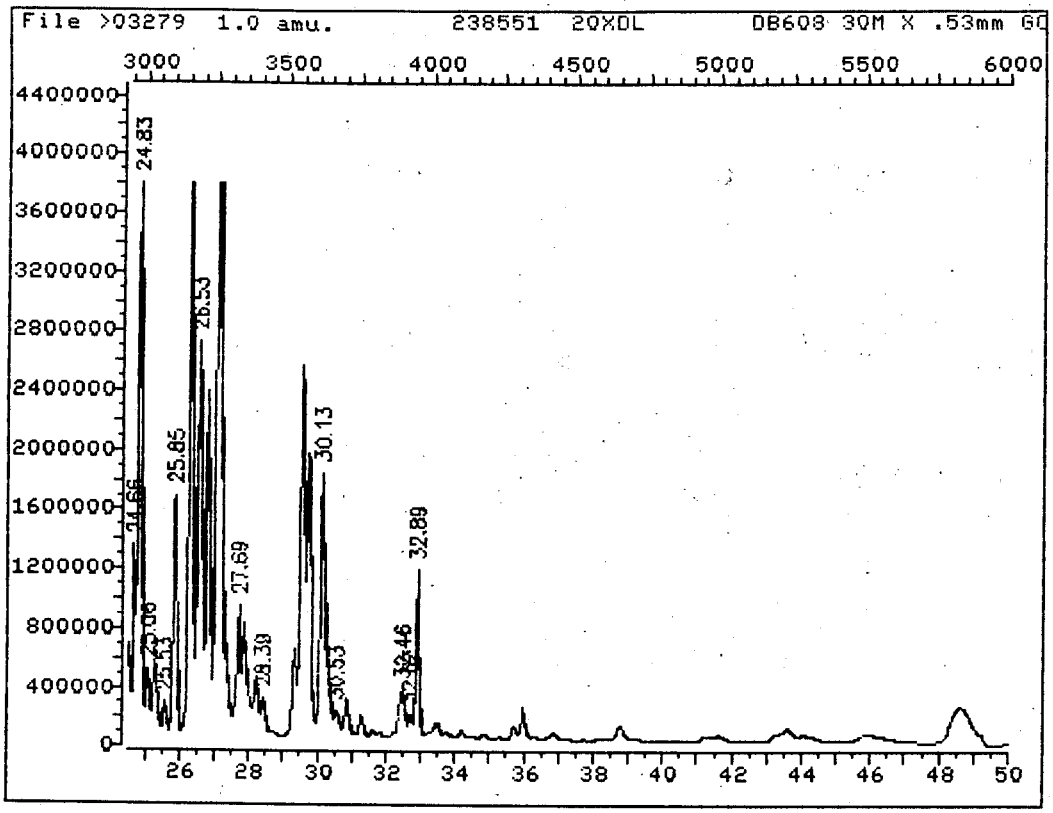

Data File: >03279::G4 Quant Output File: ^03279::GQ
Name: 238551 20XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Operator ID: TRFI2
Quant Time : 960712 14:56
Injected at: 960712 09:16

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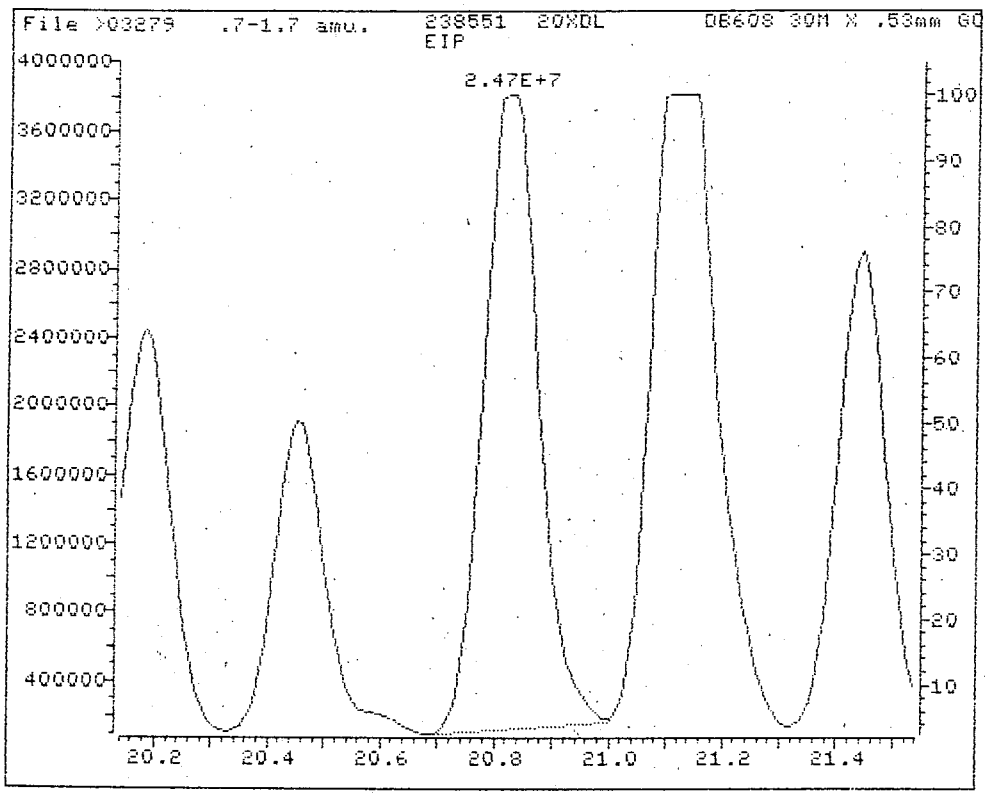
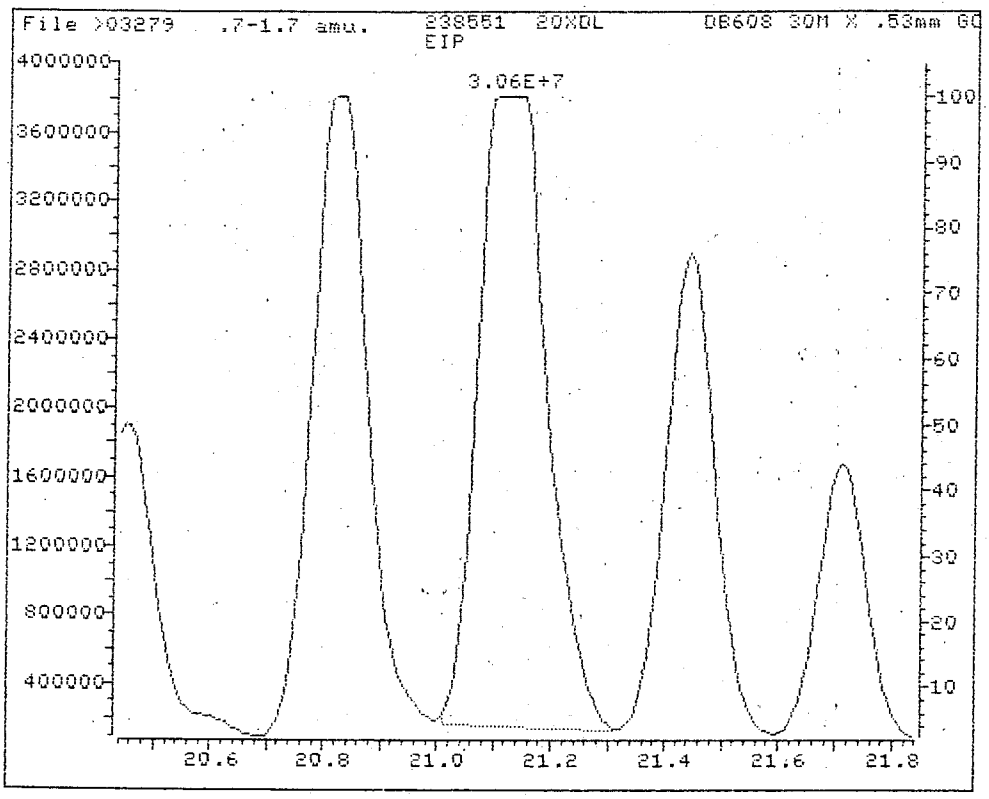


Data File: >03279::G4 Quant Output File: ^03279::GQ
Name: 238551 20XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.
Quant Time: 960712 14:56 Quant ID File: IDCAP1::SC
Injected at: 960712 09:16 Last Calibration: 941029 10:07

Compound No: 28
Compound Name: Aroclor-1254(1)
Scan Number: 2498
Retention Time: 20.82 min.
Quant Ion: 1.0
Area: 24652632M
Concentration: 5199.39 ng/ml

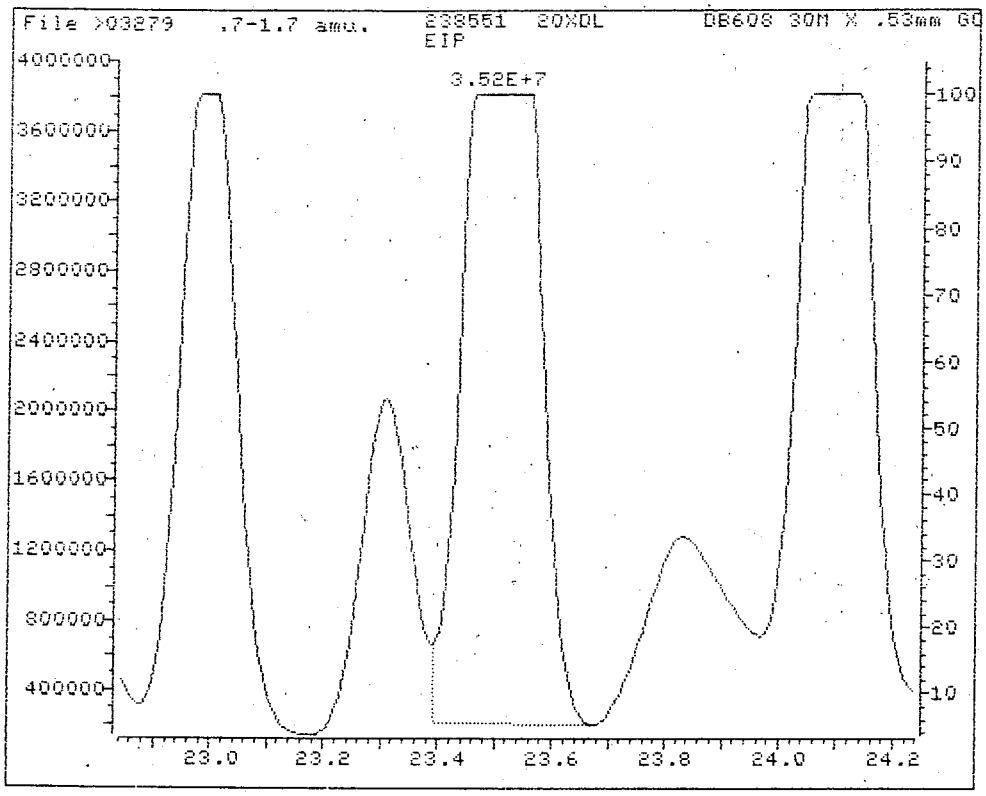
This report was produced by QAREA on: 960716 08:36



Data File: >03279::G4 Quant Output File: ^03279::GQ
Name: 238551 20XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.
Quant Time: 960712 14:56 Quant ID File: IDCAP1::SC
Injected at: 960712 09:16 Last Calibration: 941029 10:07

Compound No: 51
Compound Name: Aroclor-1254(2)
Scan Number: 2535
Retention Time: 21.13 min.
Quant Ion: 1.0
Area: 30627348M
Concentration: 5526.54 ng/ml
q-value: 100

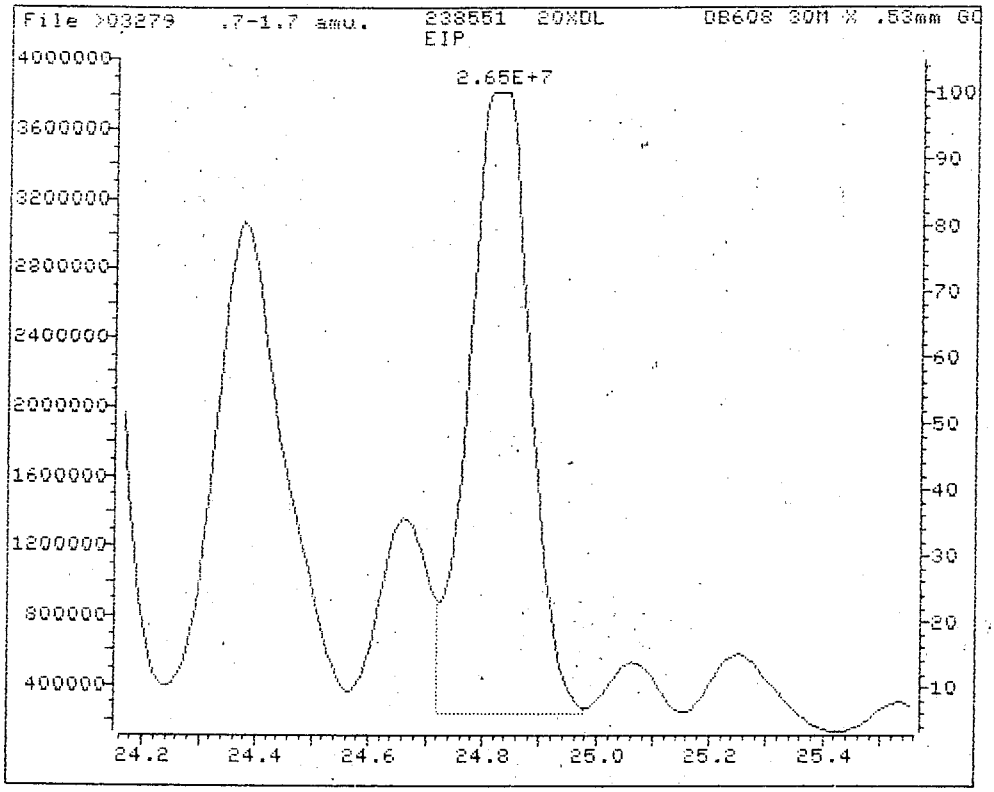
This report was produced by QAREA on: 960716 08:38



Data File: >03279::G4 Quant Output File: ^03279::GQ
Name: 238551 20XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.
Quant Time: 960712 14:56 Quant ID File: IDCAP1::SC
Injected at: 960712 09:16 Last Calibration: 941029 10:07

Compound No: 53
Compound Name: Aroclor-1254(4)
Scan Number: 2819
Retention Time: 23.49 min.
Quant Ion: 1.0
Area: 35242424M
Concentration: 5804.96 ng/ml
q-value: 100

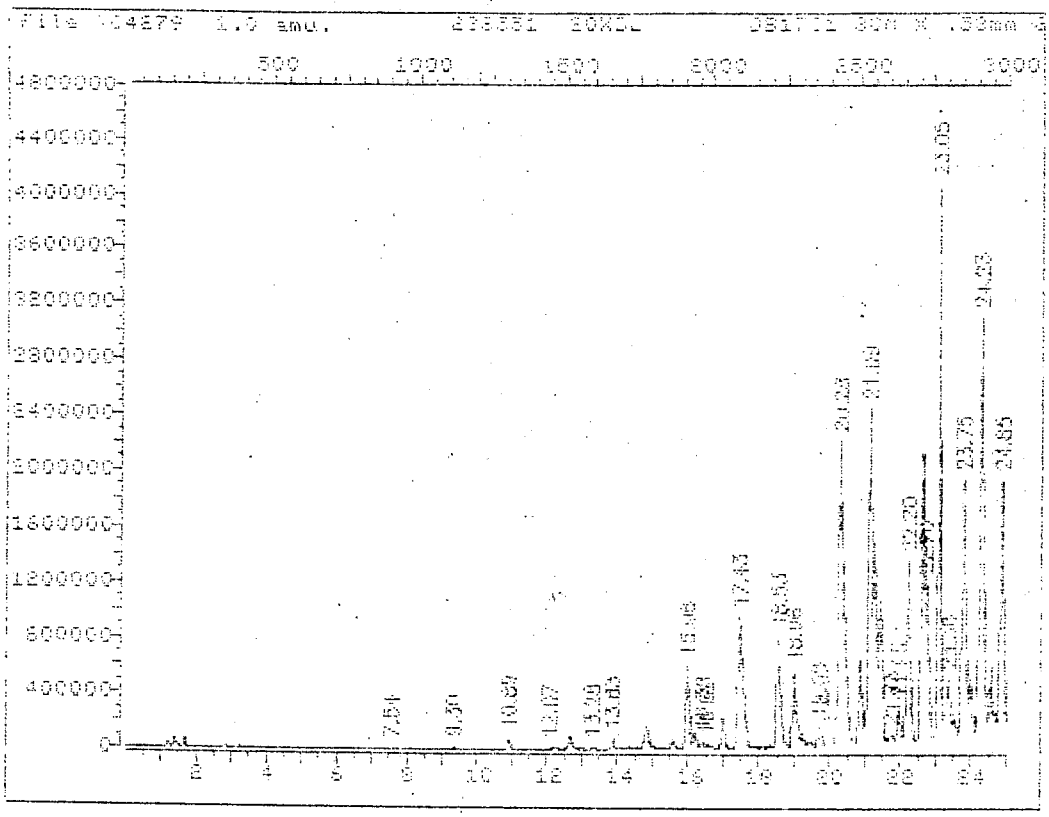
This report was produced by QAREA on: 960716 08:40



Data File: >03279::G4 Quant Output File: ^03279::GQ
Name: 238551 20XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.
Quant Time: 960712 14:56 Quant ID File: IDCAP1::SC
Injected at: 960712 09:16 Last Calibration: 941029 10:07

Compound No: 54
Compound Name: Aroclor-1254(5)
Scan Number: 2979
Retention Time: 24.83 min.
Quant Ion: 1.0
Area: 26504828M
Concentration: 7391.98 ng/ml

This report was produced by QAREA on: 960716 08:42



Data File: >04279::G1 Quant Output File: ^04279::GQ
Name: 238551 .20XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm GC58903 1ul inj.

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qual Time: 960701 21:23

Operator ID: TRFI2
Quant Time : 960712 15:56
Injected at: 960712 09:16

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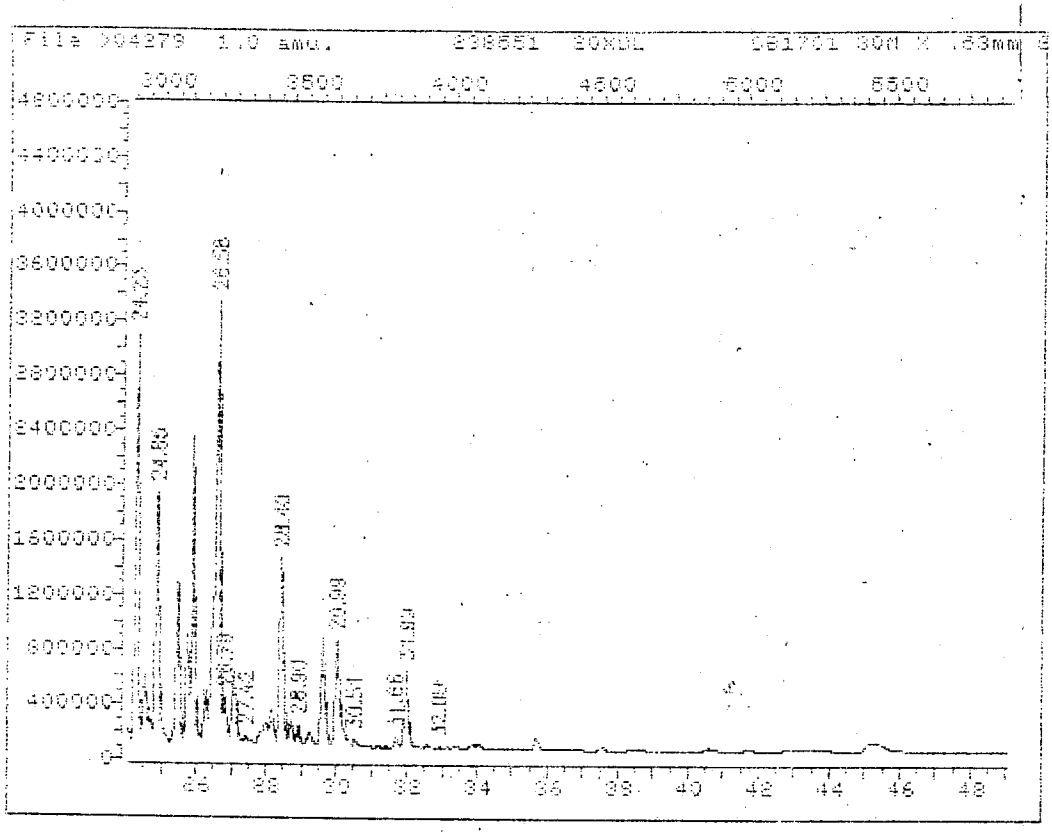

Data File: >04279::G1 Quant Output File: ^04279::GQ
Name: Z38551 20XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm SC58903 1ul inj.

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

Operator ID: TRFI2
Quant Time: 960712 13:56
Injected at: 960712 09:16

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QUANT REPORT

Operator ID: TRFI2
Output File: ^03279::GQ
Data File: >03279::G4
Name: 238551 20XDL
Misc: DB608 30M X .53mm GC58903 1ul inj.

Quant Rev: 7
Quant Time: 960712 14:56
Injected at: 960712 09:16
Dilution Factor: 1.00000
Instrument ID: GC03

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07
Last Qcal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.08	1090	282972	2.26	ng/ml	100
2)	~~#alpha-BHC~~	12.47	1496	1165386	7.87	ng/ml	100
3)	~~#beta-BHC~~	14.83	1780	688396	8.39	ng/ml	100
4)	~~#delta-BHC~~	16.58	1990	151699	1.25	ng/ml	100
5)	~~#gamma-BHC (Lindane)~~	14.30	1716	1262028	9.24	ng/ml	100
6)	~~#Heptachlor~~	16.02	1923	11085482	142.08	ng/ml	100
7)	~~#Aldrin~~	17.38	2085	2532933	18.80	ng/ml	100
8)	~~#Heptachlor epoxide~~	19.93	2392	6256500	56.96	ng/ml	100
9)	~~#Endosulfan~~ I NT	21.71	2605	9548724	78.37	ng/ml	100
11)	~~#4,4'-DDE~~	22.68	2722	17725084	193.76	ng/ml	100
12)	~~#Endrin~~	24.66	2959	5809524	67.87	ng/ml	100
13)	~~#Endosulfan II~~	25.85	3102	11308808	117.42	ng/ml	100
14)	~~#4,4'-DDD~~	25.53	3063	1243607	21.59	ng/ml	100
15)	~~#Endosulfan Sulfate~~	28.39	3407	1697266	19.15	ng/ml	100
17)	~~#Methoxychlor~~	32.46	3895	3906996	100.63	ng/ml	100
18)	~~#Endrin ketone~~	32.67	3920	1065839	11.84	ng/ml	100
20)	~~#alpha-Chlordane~~	21.44	2573	16785948	122.24	ng/ml	100
22)	~~#Toxaphene(1)~~ NP	23.83	2860	11348676	7076.44	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.29	1475	55605	18.91	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	7.82	938	1302799	1536.22	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	12.29	1475	55605	19.41	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.29	1475	55605	21.32	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	16.02	1923	10987418	1451.98	ng/ml	100
28)	#Aroclor-1254(1)	20.82	2498	24652632M	5199.39	ng/ml	
29)	~~#Aroclor-1260(1)~~ NP	24.38	2925	22019792	2840.51	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	27.69	3322	6461586	81.92	ng/ml	100
31)	~~#Toxaphene(2)~~ NP	27.69	3322	6461586	3511.45	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	28.39	3407	1697266	679.05	ng/ml	100
33)	~~#Toxaphene(4)~~ NP	30.53	3663	1076770	558.54	ng/ml	100
34)	~~#Aroclor-1016(2)~~ NP	14.30	1716	1262028	193.06	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	16.02	1923	10987418	994.72	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.67	2001	563600	150.92	ng/ml	100
37)	~~#Aroclor-1016(5)~~ NP	19.00	2280	11383852	3350.50	ng/ml	100
38)	~~#Aroclor-1221(2)~~ NP	11.28	1354	37423	22.27	ng/ml	100
39)	~~#Aroclor-1221(3)~~ NP	12.29	1475	55605	14.57	ng/ml	100
40)	~~#Aroclor-1232(2)~~ NP	14.30	1716	1262028	447.20	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	16.02	1923	10987418	2335.45	ng/ml	100
42)	~~#Aroclor-1232(4)~~ NP	16.67	2001	563600	327.34	ng/ml	100
43)	~~#Aroclor-1242(2)~~ NP	14.30	1716	1262028	234.47	ng/ml	100
44)	~~#Aroclor-1242(3)~~ NP	16.02	1923	10987418	1232.70	ng/ml	100

7/19/96

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 14:56
Output File: ^03279::GQ Injected at: 960712 09:16
Data File: >03279::G4 Dilution Factor: 1.00000
Name: 238551 20XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Compound	R.T.	Scan#	Area	Conc	Units	q
45) ~~#Aroclor-1242(4)~~ NP	16.67	2001	563600	178.19	ng/ml	100
46) ~~#Aroclor-1242(5)~~ NP	19.00	2280	11383852	3808.63	ng/ml	100
47) ~~#Aroclor-1248(2)~~ NP	17.53	2103	11003186	4218.46	ng/ml	100
48) ~~#Aroclor-1248(3)~~ NP	19.00	2280	11383852	2741.35	ng/ml	100
49) ~~#Aroclor-1248(4)~~ NP	20.45	2454	11676306	2409.95	ng/ml	100
50) ~~#Aroclor-1248(5)~~ NP	21.71	2605	9548724	1731.95	ng/ml	100
51) #Aroclor-1254(2)	21.13	2535	30627348M	5526.54	ng/ml	100
52) #Aroclor-1254(3)	22.68	2722	17725084	10992.98	ng/ml	100
53) #Aroclor-1254(4)	23.49	2819	35242424M	5804.96	ng/ml	100
54) #Aroclor-1254(5)	24.83	2979	26504828M	7391.98	ng/ml	
55) ~~#Aroclor-1260(2)~~ NP	25.06	3007	1558295	222.47	ng/ml	100
56) ~~#Aroclor-1260(3)~~ NP	26.53	3183	16315312	3125.39	ng/ml	100
57) ~~#Aroclor-1260(4)~~ NP	30.13	3615	14007508	1296.43	ng/ml	100
58) ~~#Aroclor-1260(5)~~ NP	32.89	3946	9379632	1698.90	ng/ml	100

Compound uses ESTD

7/19/96

QUANT REPORT Page 1

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 13:56
Output File: ^04279::10 Injected at: 960712 09:16
Data File: >04279::G1 Dilution Factor: 1.00000
Name: 238551 20XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm C058903 1ul inj.

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Tetrachloro-m-xylene	9.30	1116	70438	1.70	ng/ml	100
2) #~~alpha-BHC~~ (NP)	13.28	1594	40607	1.24	ng/ml	100
3) #~~beta-BHC~~ (NP)	18.53	2224	5450419	207.45	ng/ml	100
4) #~~delta-BHC~~ (NP)	19.66	2359	931447	34.11	ng/ml	100
6) #~~Heptachlor~~ (NP)	16.38	1966	216100	4.56	ng/ml	100
7) #~~Aldrin~~ (NP)	17.43	2092	9103876	241.73	ng/ml	100
9) #~~Endosulfan I~~ (NP)	21.73	2608	212165	5.94	ng/ml	100
10) #~~Dieldrin~~ (NP)	23.36	2803	3556496	109.52	ng/ml	100
11) #~~4,4'-DDE~~ (NP)	22.70	2724	5824634	209.82	ng/ml	100
12) #~~Endrin~~ (NP)	24.23	2908	20700612	714.10	ng/ml	100
13) #~~Endosulfan II~~ (NP)	26.79	3214	1990000	55.60	ng/ml	100
14) #~~4,4'-DDD~~ (NP)	26.58	3189	29178932	1380.87	ng/ml	100
15) #~~Endosulfan Sulfate~~ (NP)	30.51	3661	487797	18.44	ng/ml	100
16) #~~4,4'-DDT~~ (NP)	27.42	3290	241744	14.67	ng/ml	100
18) #~~Endrin ketone~~ (NP)	32.89	3946	48369	1.72	ng/ml	100
20) #~~alpha-Chlordane~~ (NP)	22.20	2664	5328846	199.71	ng/ml	100
21) #~~gamma-Chlordane~~ (NP)	21.95	2634	1341235	33.56	ng/ml	100
23) #~~Aroclor-1016(1)~~ NP	12.07	1448	36371	29.45	ng/ml	100
24) #~~Aroclor-1221(1)~~ NP	7.54	905	38575	48.78	ng/ml	100
25) #~~Aroclor-1232(1)~~ NP	7.54	905	38575	32.39	ng/ml	100
26) #~~Aroclor-1242(1)~~ NP	12.07	1448	36370	34.38	ng/ml	100
27) #~~Aroclor-1248(1)~~ NP	13.83	1660	391321	355.27	ng/ml	100
28) #Aroclor-1254(1)	17.43	2092	9103876	5730.61	ng/ml	100
29) #~~Aroclor-1260(1)~~ NP	23.75	2850	12836746	5556.24	ng/ml	100
30) #~~Endrin aldehyde~~ NT	28.90	3468	1035898	35.74	ng/ml	100
31) #~~Toxaphene(2)~~ (NP)	28.40	3408	9921476	13765.68	ng/ml	100
32) #~~Toxaphene(3)~~ (NP)	30.51	3661	487797	989.71	ng/ml	100
33) #~~Toxaphene(4)~~ (NP)	31.66	3799	503921	1004.24	ng/ml	100
34) #~~Aroclor-1016(2)~~ (NP)	13.83	1660	391321	160.07	ng/ml	100
35) #~~Aroclor-1016(3)~~ (NP)	15.96	1915	3682128	949.22	ng/ml	100
36) #~~Aroclor-1016(4)~~ (NP)	16.52	1982	43996	30.21	ng/ml	100
37) #~~Aroclor-1016(5)~~ (NP)	18.53	2224	5450419	2644.96	ng/ml	100
38) #~~Aroclor-1221(2)~~ (NP)	10.89	1307	395987	603.72	ng/ml	100
39) #~~Aroclor-1221(3)~~ (NP)	12.07	1448	36370	21.20	ng/ml	100
40) #~~Aroclor-1232(2)~~ (NP)	12.07	1448	36370	31.05	ng/ml	100
41) #~~Aroclor-1232(3)~~ (NP)	13.83	1660	391321	380.03	ng/ml	100
42) #~~Aroclor-1232(4)~~ (NP)	15.96	1915	3682128	2357.09	ng/ml	100
43) #~~Aroclor-1242(2)~~ (NP)	13.83	1660	391321	197.01	ng/ml	100
44) #~~Aroclor-1242(3)~~ (NP)	15.96	1915	3682128	1194.27	ng/ml	100
45) #~~Aroclor-1242(4)~~ (NP)	16.52	1982	43996	78.49	ng/ml	100

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 13:56
Output File: ^0427?:*GQ Injected at: 960712 09:16
Data File: ^0427?:*G1 Dilution Factor: 1.00000
Name: 258551 20XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm GC58905 1ul inj.

ID File: IDCAP2r:SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Cal Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
46)	~~#Aroclor-1242(5)~~ UP	17.43	2092	9103876	11505.83	ng/ml	100
47)	~~#Aroclor-1248(2)~~	15.96	1915	3682138	1409.55	ng/ml	100
48)	~~#Aroclor-1248(5)~~ UP	18.53	2224	5450419	2212.31	ng/ml	100
49)	~~#Aroclor-1248(4)~~	18.96	2275	3938058	2229.04	ng/ml	100
50)	~~#Aroclor-1248(5)~~	20.28	2433	14960714	15587.72	ng/ml	100
51)	#Aroclor-1254(2)	20.28	2433	14960714	7358.36	ng/ml	100
52)	#Aroclor-1254(3)	21.09	2531	14695198	8012.60	ng/ml	100
53)	#Aroclor-1254(4)	23.05	2766	25128540	9855.49	ng/ml	100
54)	#Aroclor-1254(5)	23.75	2850	12836746	9464.81	ng/ml	100
55)	~~#Aroclor-1260(2)~~	24.85	2982	11089492	4084.36	ng/ml	100
56)	~~#Aroclor-1260(3)~~ UP	28.40	3408	9546714	5378.92	ng/ml	100
57)	~~#Aroclor-1260(4)~~	29.99	3599	7167788	1823.15	ng/ml	100
58)	~~#Aroclor-1260(5)~~	31.99	3838	5328332	2145.54	ng/ml	100

Compound uses ESTD

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7/13/96

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S7	DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Matrix: (soil/water) SOIL Lab Sample ID: 238551

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 03233

% Moisture: 23. decanted: (Y/N) N Date Received: 06/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/03/96

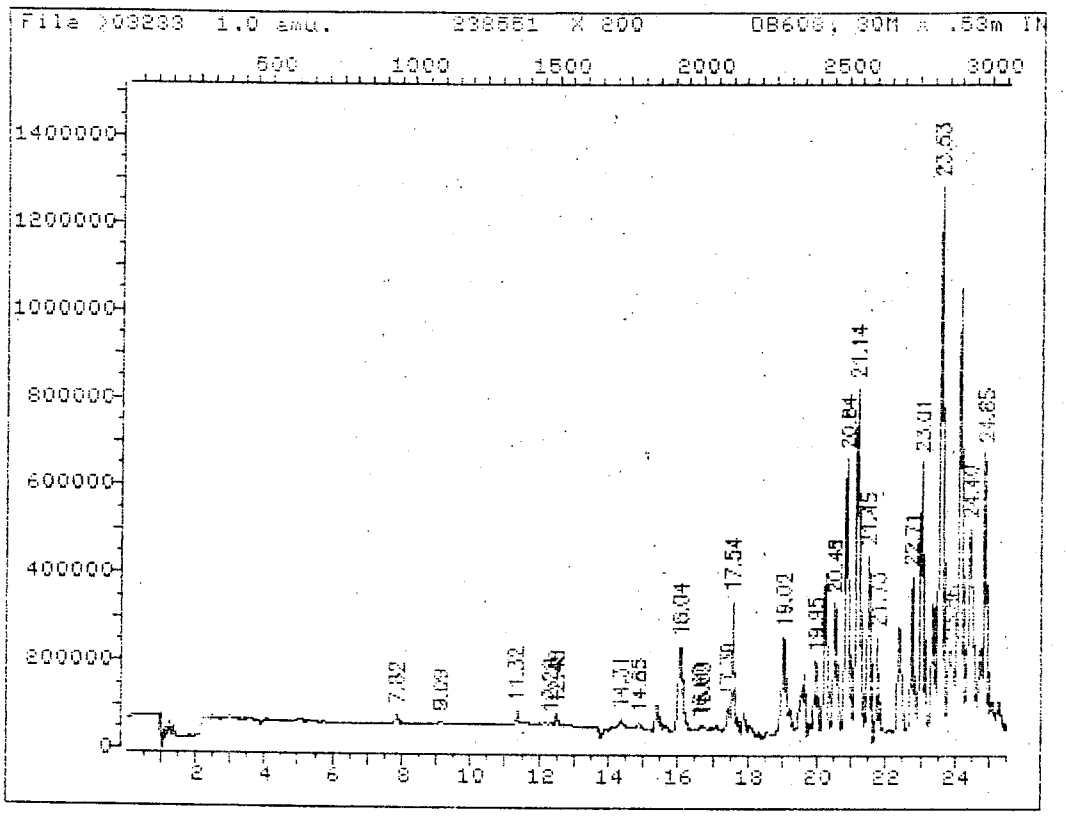
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/10/96

Injection Volume: 1.0 (uL) Dilution Factor: 200.0

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

Do not use these data

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	440.	U
319-85-7	beta-BHC	440.	U
319-86-8	delta-BHC	440.	U
58-89-9	gamma-BHC (Lindane)	440.	U
76-44-8	Heptachlor	440.	U
309-00-2	Aldrin	440.	U
1024-57-3	Heptachlor epoxide	440.	U
959-98-8	Endosulfan I	440.	U
60-57-1	Dieldrin	850.	U
72-55-9	4,4'-DDE	850.	U
72-20-8	Endrin	850.	U
33213-65-9	Endosulfan II	850.	U
72-54-8	4,4'-DDD	850.	U
1031-07-8	Endosulfan Sulfate	850.	U
50-29-3	4,4'-DDT	850.	U
72-43-5	Methoxychlor	4400.	U
53494-70-5	Endrin ketone	850.	U
7421-93-4	Endrin aldehyde	850.	U
5103-71-9	alpha-Chlordane	440.	U
5103-74-2	gamma-Chlordane	440.	U
8001-35-2	Toxaphene	44000.	U
12674-11-2	Aroclor-1016	8500.	~~U~~ R
11104-28-2	Aroclor-1221	17000.	~~U~~ R
11141-16-5	Aroclor-1232	8500.	~~U~~ R
53469-21-9	Aroclor-1242	8500.	~~U~~ R
12672-29-6	Aroclor-1248	8500.	~~U~~ R
11097-69-1	Aroclor-1254	100000.	D
11096-82-5	Aroclor-1260	8500.	~~U~~ R



Data File: >03233::G3 Quant Output File: ^03233::F3
Name: 238551 X 200 Instrument ID: GC03
Misc: DB608. 30M X .53m INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Operator ID: TRFIL
Quant Time : 960710 05:44
Injected at: 960710 04:50

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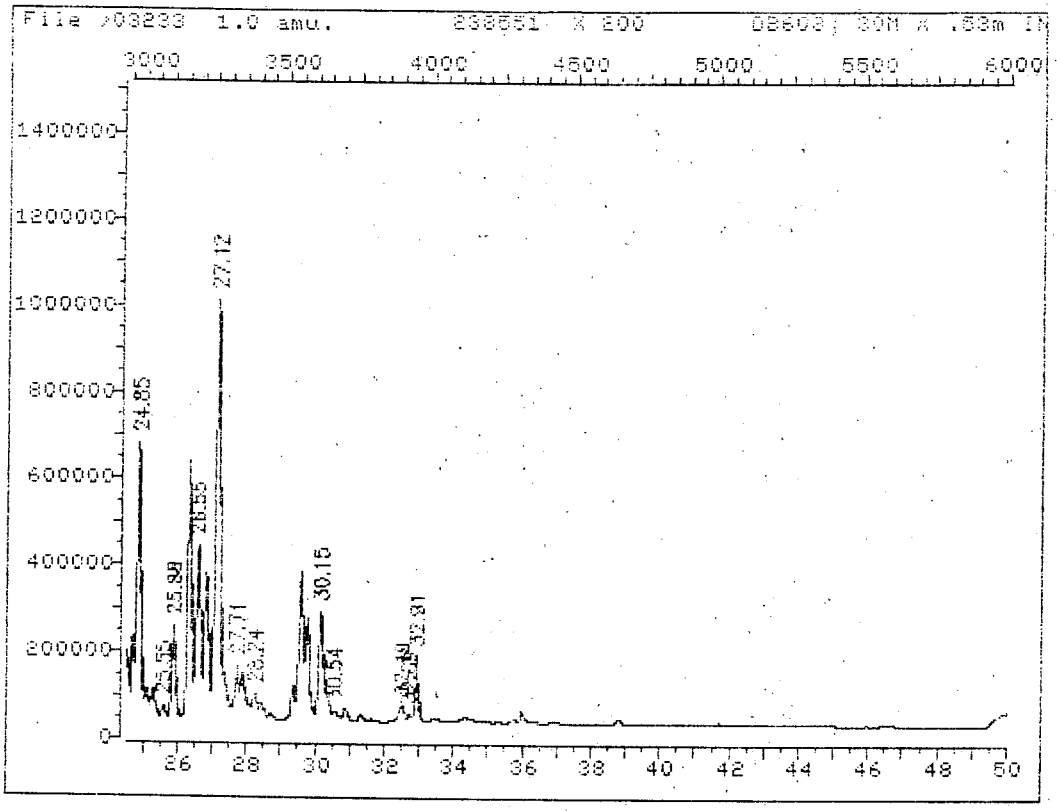

Data File: >03233::G3 Quant Output File: ^03233::F3
Name: 238551 X 200 Instrument ID: GC03
Misc: DB608, 30M X .53m INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qual Time: 960702 00:13

Operator ID: TRFIL
Quant Time : 960710 05:44
Injected at: 960710 04:50

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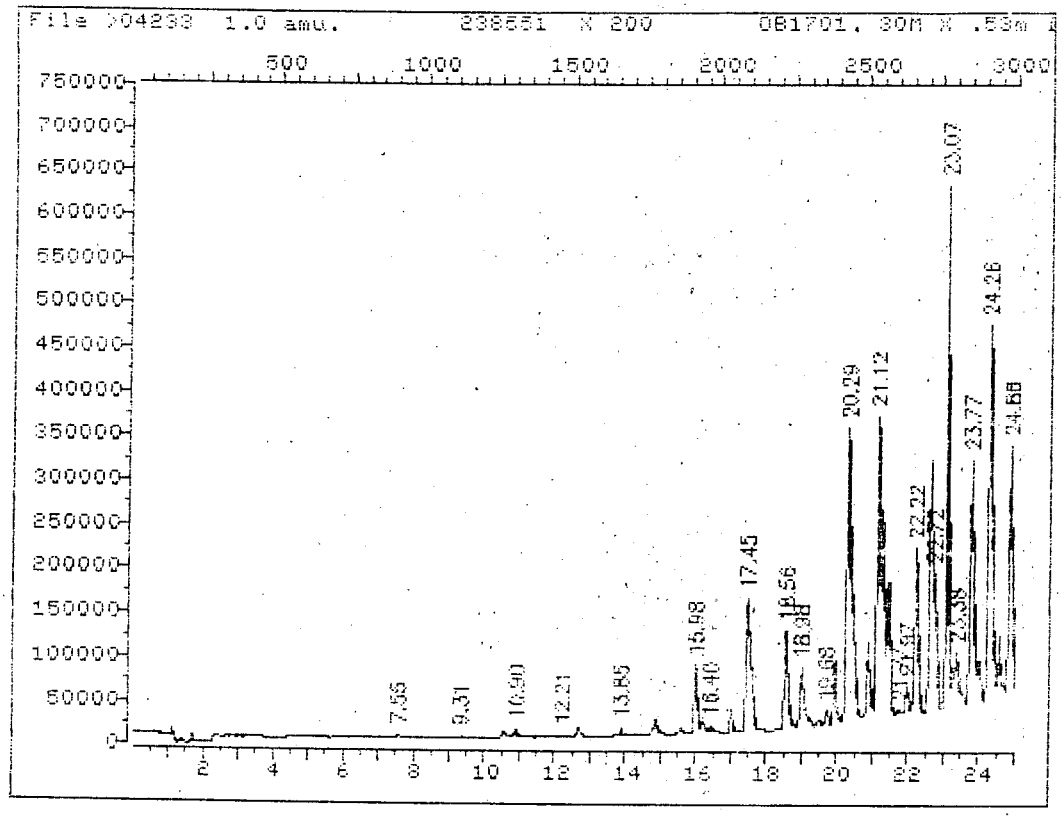

Data File: >04233::G1 Quant Output File: ^04233::F3
Name: 238551 X 200 Instrument ID: GC04
Misc: DB1701, 30M X .53m INST.58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qual Time: 960701 21:23

Operator ID: TRFIL
Quant Time : 960710 05:42
Injected at: 960710 04:50

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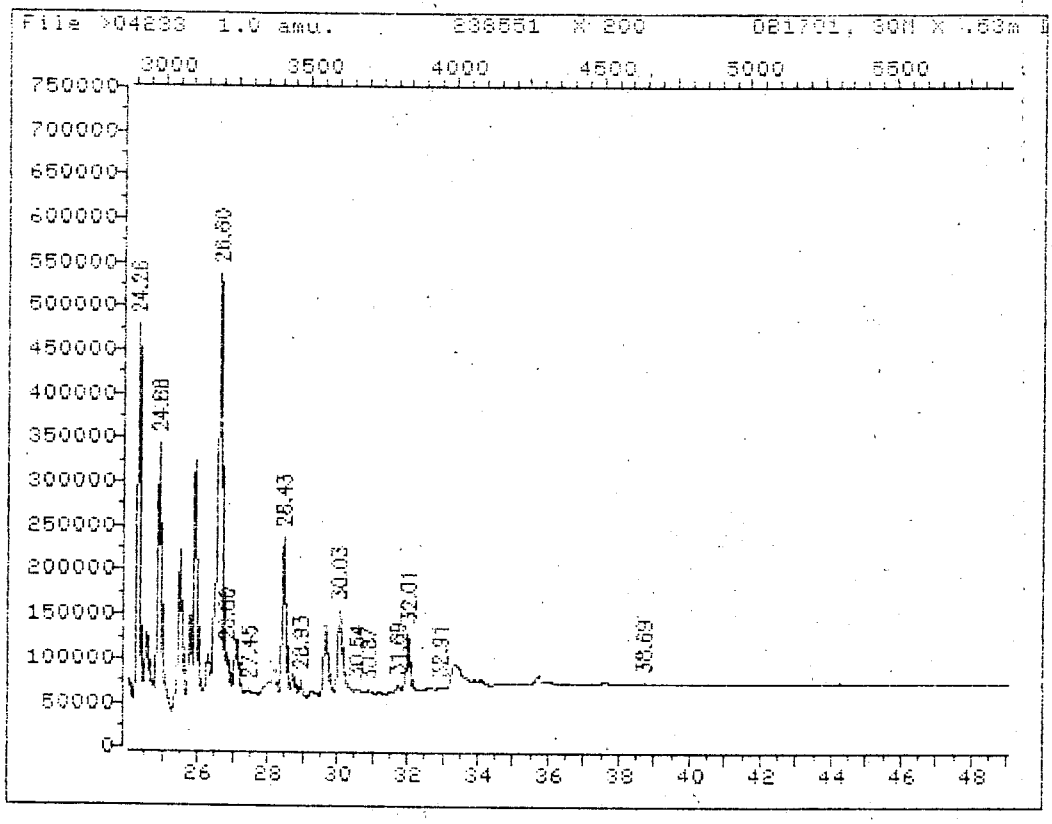

Data File: >04233::G1 Quant Output File: ^04233::F3
Name: 238551 X 200 Instrument ID: GC04
Misc: DB1701, 30M X .53m INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

Operator ID: TRFIL
Quant Time : 960710 05:42
Injected at: 960710 04:50

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QUANT REPORT

Operator ID: TRFIL   Quant Rev: 7   Quant Time: 960710 05:44
Output File: ^03233::F3   Injected at: 960710 04:50
Data File: >03233::G3   Dilution Factor: 1.00000
Name: 238551 X 200   Instrument ID: GC03
Misc: DB608, 30M X .53m INST 58903, 1ul INJ

S7 DL

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07   Last Qcal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.09	1091	28075	.224	ng/ml	100
2)	#~~alpha-B~~HC	12.48	1498	181976	1.23	ng/ml	100
3)	#~~beta-B~~HC	14.85	1782	96598	1.18	ng/ml	100
4)	#~~delta-B~~HC	16.60	1992	22643	.187	ng/ml	100
5)	#~~gamma-BHC (Lindane)~~	14.31	1717	149079	1.09	ng/ml	100
6)	#~~Heptachlor~~	16.04	1925	1772579	22.72	ng/ml	100
7)	#~~Aldrin~~	17.39	2087	278846	2.07	ng/ml	100
8)	#~~Heptachlor epoxide~~	19.95	2394	886724	8.07	ng/ml	100
9)	#~~Endosulfan I~~	21.73	2607	1970935	16.18	ng/ml	100
10)	#~~Dieldrin~~	23.01	2761	3784350	40.02	ng/ml	100
11)	#~~4,4'-DDE~~ NT	22.71	2725	2701372	29.53	ng/ml	100
12)	#~~Endrin~~	24.85	2982	4249471	49.65	ng/ml	100
13)	#~~Endosulfan II~~	25.88	3105	1485979	15.43	ng/ml	100
14)	#~~4,4'-DDD~~	25.55	3066	172493	2.99	ng/ml	100
15)	#~~Endosulfan Sulfate~~	28.24	3388	238303	2.69	ng/ml	100
16)	#~~4,4'-DDT~~	27.12	3254	7351474	113.42	ng/ml	100
17)	#~~Methoxychlor~~	32.49	3898	587340	15.13	ng/ml	100
18)	#~~Endrin ketone~~	32.69	3923	117362	1.30	ng/ml	100
20)	#~~alpha-Chlordane~~	21.45	2574	2592001	18.88	ng/ml	100
21)	#~~gamma-Chlordane~~	20.84	2501	4074012	34.57	ng/ml	100
22)	#~~Toxaphene~~(1) NP	23.86	2863	1563479	974.90	ng/ml	100
23)	#~~Aroclor-1016~~(1) NP	12.29	1475	14122	4.80	ng/ml	100
24)	#~~Aroclor-1221~~(1) NP	7.82	939	149643	176.45	ng/ml	100
25)	#~~Aroclor-1232~~(1) NP	12.29	1475	14122	4.93	ng/ml	100
26)	#~~Aroclor-1242~~(1) NP	12.29	1475	14122	5.41	ng/ml	100
27)	#~~Aroclor-1248~~(1) NP	16.04	1925	1772579	234.25	ng/ml	100
28)	#Aroclor-1254(1)	20.84	2501	4074012	859.23	ng/ml	100
29)	#~~Aroclor-1260(1)~~ NP	24.40	2928	3676188	474.22	ng/ml	100
30)	#~~Endrin aldehyde~~ NT	27.71	3325	815821	10.34	ng/ml	100
31)	#~~Toxaphene(2)~~ NP	27.71	3325	815821	443.35	ng/ml	100
32)	#~~Toxaphene~~(3) NP	28.24	3388	238303	95.34	ng/ml	100
33)	#~~Toxaphene~~(4) NP	30.54	3664	120355	62.43	ng/ml	100
34)	#~~Aroclor-1016~~(2) NP	14.31	1717	149079	22.81	ng/ml	100
35)	#~~Aroclor-1016~~(3) NP	16.04	1925	1772579	160.48	ng/ml	100
36)	#~~Aroclor-1016~~(4) NP	16.69	2003	54135	14.50	ng/ml	100
37)	#~~Aroclor-1016~~(5) NP	19.02	2282	1671545	491.97	ng/ml	100
38)	#~~Aroclor-1221~~(2) NP	11.32	1358	161127	95.89	ng/ml	100
39)	#~~Aroclor-1221~~(3) NP	12.29	1475	14122	3.70	ng/ml	100
40)	#~~Aroclor-1232~~(2) NP	14.31	1717	149079	52.83	ng/ml	100
41)	#~~Aroclor-1232(3)~~ NP	16.04	1925	1772579	376.77	ng/ml	100

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7/10/96

QUANT REPORT

Operator ID: TRFIL
Output File: ^03233::F3
Data File: >03233::G3
Name: I58551 X 200
Misc: DB608, 30M X .53m INST 58903, 1ul INJ

Quant Rev: 7
Quant Time: 960710 05:44
Injected at: 960710 04:50
Dilution Factor: 1.00000
Instrument ID: GC03

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07

Last Qcal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
42)	~~#Aroclor-1232(4)~~ NP	16.69	2003	54135	31.44	ng/ml	100
43)	~~#Aroclor-1242(2)~~ NP	14.31	1717	149079	27.70	ng/ml	100
44)	~~#Aroclor-1242(3)~~ NP	16.04	1925	1772579	198.87	ng/ml	100
45)	~~#Aroclor-1242(4)~~ NP	16.69	2003	54135	17.12	ng/ml	100
46)	~~#Aroclor-1242(5)~~ NP	19.02	2282	1671545	559.24	ng/ml	100
47)	~~#Aroclor-1248(2)~~ NP	17.54	2105	1909513	732.08	ng/ml	100
48)	~~#Aroclor-1248(3)~~ NP	19.02	2282	1671545	402.53	ng/ml	100
49)	~~#Aroclor-1248(4)~~ NP	20.48	2457	1848443	381.51	ng/ml	100
50)	~~#Aroclor-1248(5)~~ NP	21.73	2607	1970935	357.49	ng/ml	100
51)	#Aroclor-1254(2)	21.14	2537	5488350	990.34	ng/ml	100
52)	#Aroclor-1254(3)	22.71	2725	2701372	1675.37	ng/ml	100
53)	#Aroclor-1254(4)	23.53	2823	8032904	1323.14	ng/ml	100
54)	#Aroclor-1254(5)	24.85	2982	4249471	1185.14	ng/ml	100
55)	~~#Aroclor-1260(2)~~ NP	24.85	2982	4249471	606.69	ng/ml	100
56)	~~#Aroclor-1260(3)~~ NP	26.55	3186	2929029	561.09	ng/ml	100
57)	~~#Aroclor-1260(4)~~ NP	30.15	3618	1866424	172.74	ng/ml	100
58)	~~#Aroclor-1260(5)~~ NP	32.91	3949	1215194	220.10	ng/ml	100

Compound uses ESTD

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7/10/96

QUANT REPORT

Operator ID: TRFIL
Output File: ^04233::F3
Data File: >04233::G1
Name: 238551 X 200
Misc: DB1701, 30M X .53m INST.58903, 1ul INJ

Quant Rev: 7
Quant Time: 960710 05:42
Injected at: 960710 04:50
Dilution Factor: 1.00000
Instrument ID: GC04

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07
Last Qcal Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.31	1117	9920	.240	ng/ml	100
3)	~~#beta-BHC~~	18.56	2227	802662	30.55	ng/ml	100
4)	~~#delta-BHC~~	19.68	2362	97258	3.99	ng/ml	100
6)	~~#Heptachlor~~	16.40	1968	26152	.551	ng/ml	100
7)	~~#Aldrin~~	17.45	2094	1436952	38.16	ng/ml	100
9)	~~#Endosulfan I~~	21.77	2612	23966	.671	ng/ml	100
10)	~~#Dieldrin~~	23.38	2805	513224	15.80	ng/ml	100
11)	~~#4,4'-DDE~~	22.72	2726	805920	29.03	ng/ml	100
12)	~~#Endrin~~	24.26	2911	3094245	106.74	ng/ml	100
13)	~~#Endosulfan II~~	26.80	3216	298075	8.33	ng/ml	100
14)	~~#4,4'-DDD~~	26.60	3192	4281390	202.61	ng/ml	100
15)	~~#Endosulfan Sulfate~~	30.54	3664	44817	1.69	ng/ml	100
16)	~~#4,4'-DDT~~	27.45	3294	29634	1.80	ng/ml	100
17)	~~#Methoxychlor~~	30.87	3704	27965	2.08	ng/ml	100
18)	~~#Endrin ketone~~	32.91	3949	7558	.268	ng/ml	100
19)	#Decachlorobiphenyl	38.69	4643	7209	.154	ng/ml	100
20)	~~#alpha-Chlordane~~ NT	22.22	2666	1183022	28.37	ng/ml	100
21)	~~#gamma-Chlordane~~ NT	21.97	2636	167598	4.19	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.21	1465	8901	7.21	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	7.55	906	16312	20.63	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	7.55	906	16312	13.70	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.21	1465	8901	8.41	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	13.85	1662	43894	39.85	ng/ml	100
28)	#Aroclor-1254(1)	17.45	2094	1436952	904.52	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	23.77	2852	1961878	849.18	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	28.93	3471	157761	5.19	ng/ml	100
31)	~~#Toxaphene(2)~~ NP	28.43	3411	1311454	1819.59	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	30.54	3664	44456	90.20	ng/ml	100
33)	~~#Toxaphene(4)~~ NP	31.69	3803	63556	126.66	ng/ml	100
34)	~~#Aroclor-1016(2)~~ NP	13.85	1662	43894	17.95	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	15.98	1918	485221	125.09	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.40	1968	25430	17.46	ng/ml	100
37)	~~#Aroclor-1016(5)~~ NP	18.56	2227	802662	389.51	ng/ml	100
38)	~~#Aroclor-1221(2)~~ NP	10.90	1308	46816	71.38	ng/ml	100
39)	~~#Aroclor-1221(3)~~ NP	12.21	1465	8901	5.19	ng/ml	100
40)	~~#Aroclor-1232(2)~~ NP	12.21	1465	8901	7.60	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	13.85	1662	43894	42.63	ng/ml	100
42)	~~#Aroclor-1232(4)~~ NP	15.98	1918	485221	310.61	ng/ml	100
43)	~~#Aroclor-1242(2)~~ NP	13.85	1662	43894	22.10	ng/ml	100
44)	~~#Aroclor-1242(3)~~ NP	15.98	1918	485221	157.38	ng/ml	100

E Pro
7/10/96

Operator ID: TRFIL
Output File: ^04233::F3
Data File: >04233::G1
Name: 238551 X 200
Disc: DB1701, 30M X .53m INST 58903, 1ul INJ

Quant Seq: 7
Quant Time: 960710 05:42
Injected at: 960710 04:50
Dilution Factor: 1.00000
Instrument ID: GC04

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07
Last Scal Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
45)	~~#Aroclor-1242(4)~~ NP	16.40	1968	25430	22.25	ng/ml	100
46)	~~#Aroclor-1242(5)~~ NP	17.45	2094	1436952	1816.08	ng/ml	100
47)	~~#Aroclor-1248(2)~~ NP	15.98	1918	485221	185.75	ng/ml	100
48)	~~#Aroclor-1248(3)~~ NP	18.56	2227	802662	325.80	ng/ml	100
49)	~~#Aroclor-1248(4)~~ NP	18.98	2278	499726	283.07	ng/ml	100
50)	~~#Aroclor-1248(5)~~ NP	20.29	2435	2266013	2360.92	ng/ml	100
51)	#Aroclor-1254(2)	20.29	2435	2266013	1114.53	ng/ml	100
52)	#Aroclor-1254(3)	21.12	2534	1863659	1016.17	ng/ml	100
53)	#Aroclor-1254(4)	23.07	2768	3733405	1464.25	ng/ml	100
54)	#Aroclor-1254(5)	23.77	2852	1961878	1446.54	ng/ml	100
55)	~~#Aroclor-1260(2)~~ NP	24.88	2985	2427494	894.07	ng/ml	100
56)	~~#Aroclor-1260(3)~~ NP	28.43	3411	1297252	730.91	ng/ml	100
57)	~~#Aroclor-1260(4)~~ NP	30.03	3603	927977	236.03	ng/ml	100
58)	~~#Aroclor-1260(5)~~ NP	32.01	3841	631167	254.15	ng/ml	100

Compound uses ESTD

E Ruiz
7/10/96

QUANT REPORT

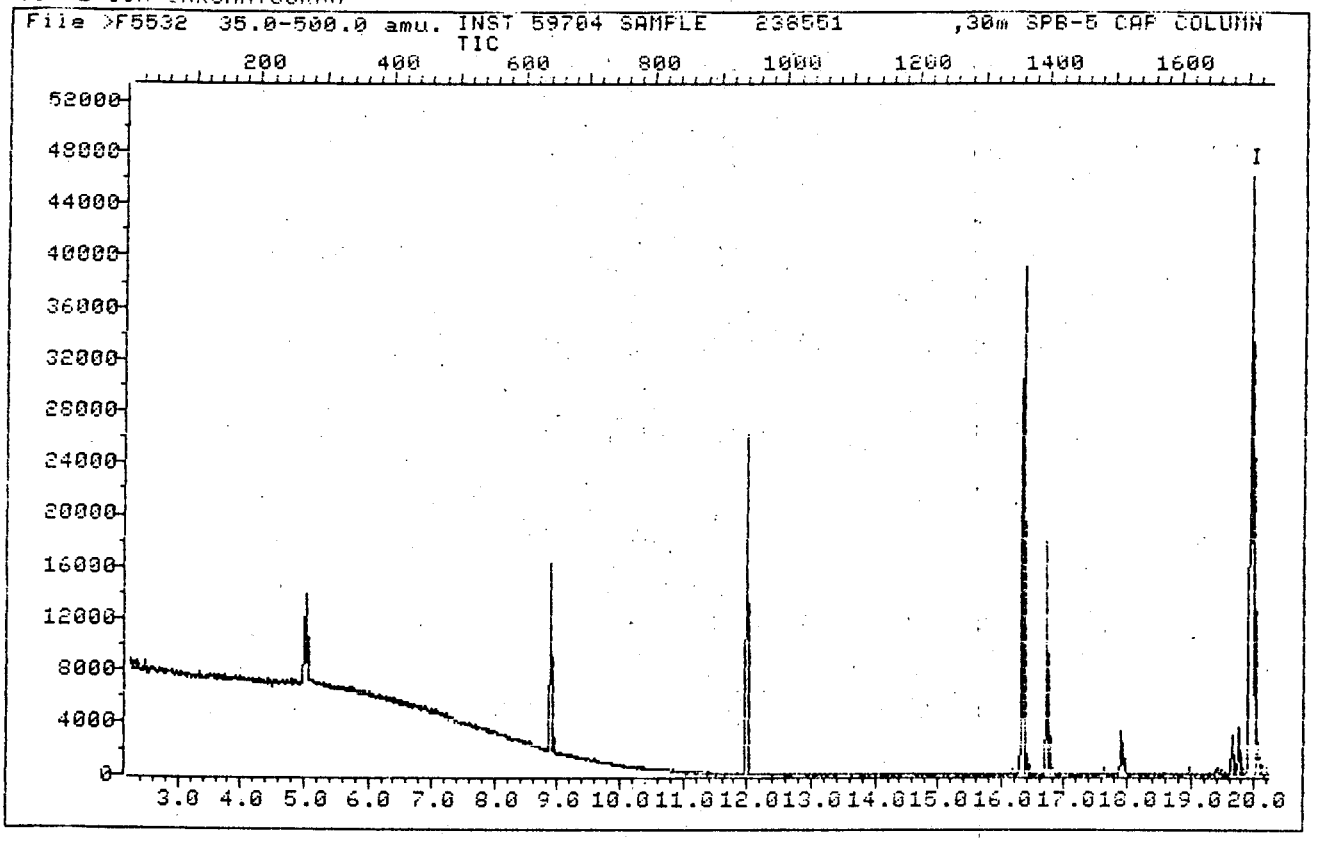
Operator ID: GT0101 Quant Rev: 7 Quant Time: 960709 18:12
Output File: ^F5532::QT Injected at: 960709 17:33
Data File: >F5532::F1 Dilution Factor: 1.00000
Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 238551 ,30m SPB-5 CAP COLUMN BTL#10

ID File: IDPEST::SC
Title: CLP PESTICIDE CONFIRMATION FILE
Last Calibration: : Last Qcal Time: 960705 12:13

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *Phenanthrene-d10	19.91	188.0	33017	40.00	UG/ML	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



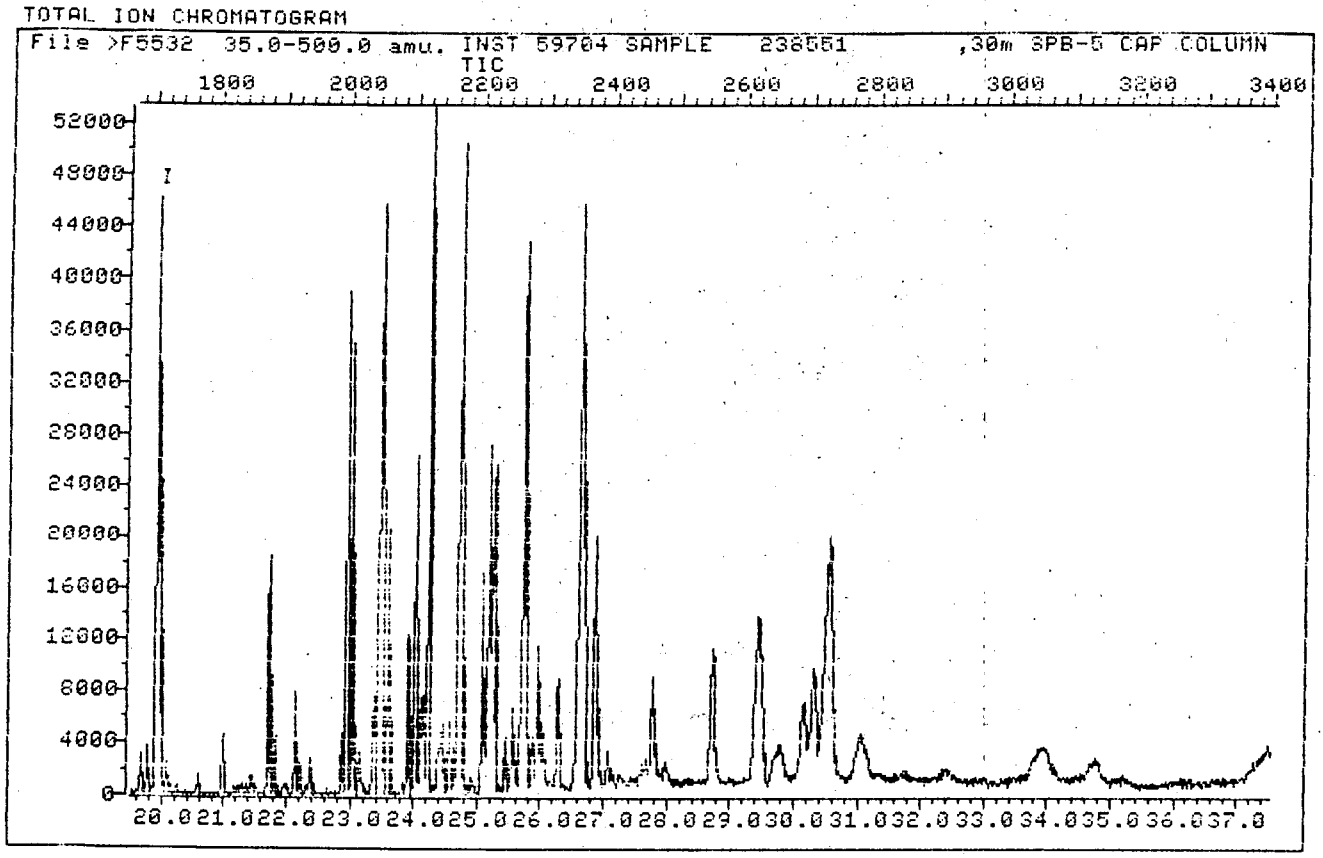
Data File: >F5532::F1 Quant Output File: ^F5532::QT
Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 238551 ,30m SPB-5 CAP COLUMN BTL#10

Id File: IDPEST::SC
Title: CLP PESTICIDE CONFIRMATION FILE
Last Calibration: : Last Qcal Time: 960705 12:13

Operator ID: GT0101
Quant Time : 960709 18:12
Injected at: 960709 17:33

Page 1 of 2

TOTAL ION CHROMATOGRAM

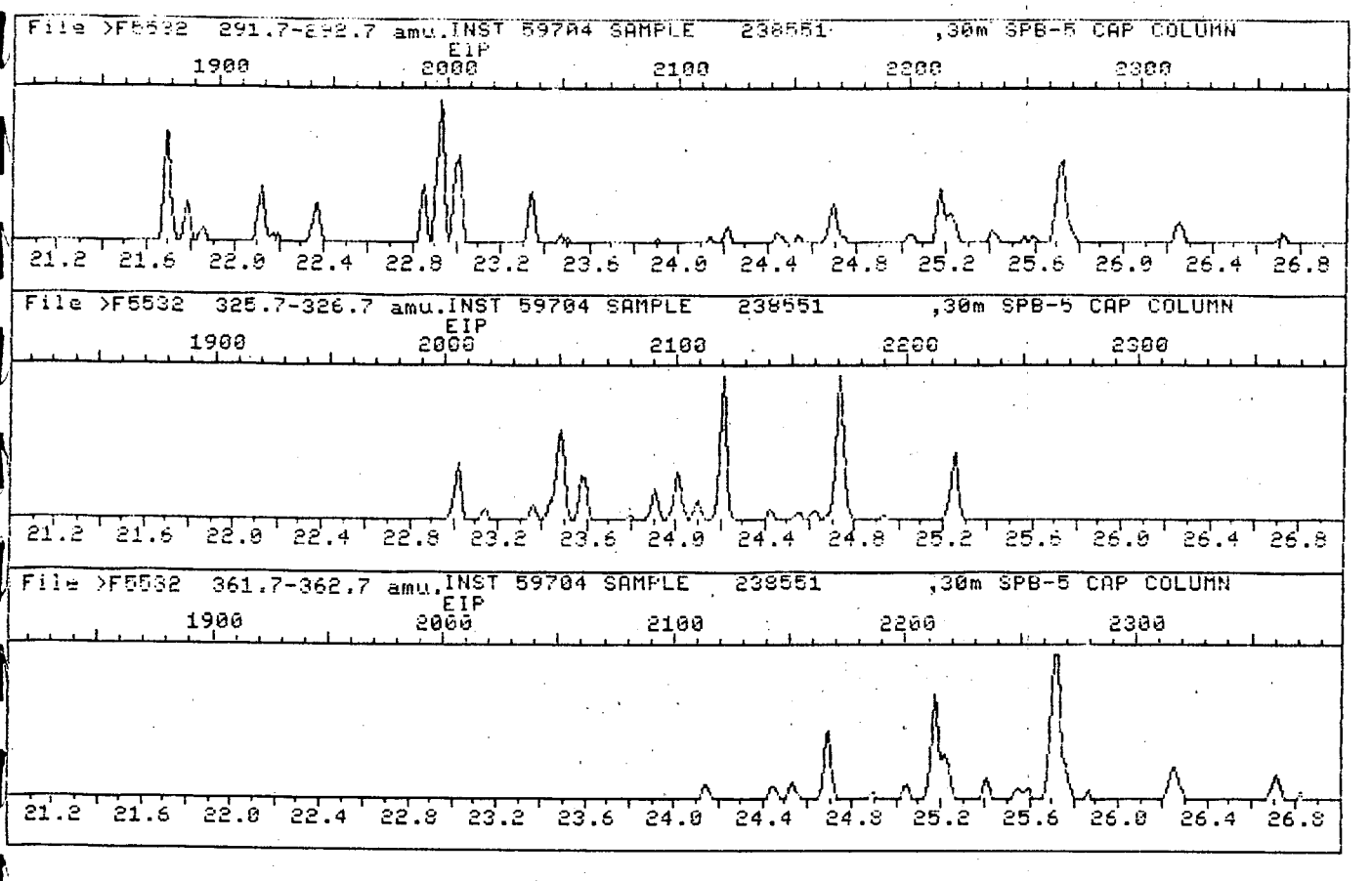


Data File: >F5532::F1 Quant Output File: ^F5532::QT
Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 238551 ,30m SPB-5 CAP COLUMN BTL#10

Id File: IDPEST::SC
Title: CLP PESTICIDE CONFIRMATION FILE
Last Calibration: : Last Qcal Time: 960705 12:13

Operator ID: GT0101
Quant Time : 960709 18:12
Injected at: 960709 17:33

Page 2 of 2



MS data file header from : >F5532::F1

Sample: INST 59704 SAMPLE Operator: GT0101 SUPER GRP. 7/09/96 17:33
Misc : 238551 ,30m SPB-5 CAP COLUMN BTL#10
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 10 Equip ID: INST F
Method file: BNP4 Tuning file: MTA004 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	40.	280.	300.	0.	0.
Chromatographic times, min. :	4.0	1.0	20.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	10.0	0.0	0.0	0.0

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S8

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Matrix: (soil/water) SOIL Lab Sample ID: 238553

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 03278

% Moisture: 11. decanted: (Y/N) N Date Received: 06/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/03/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/12/96

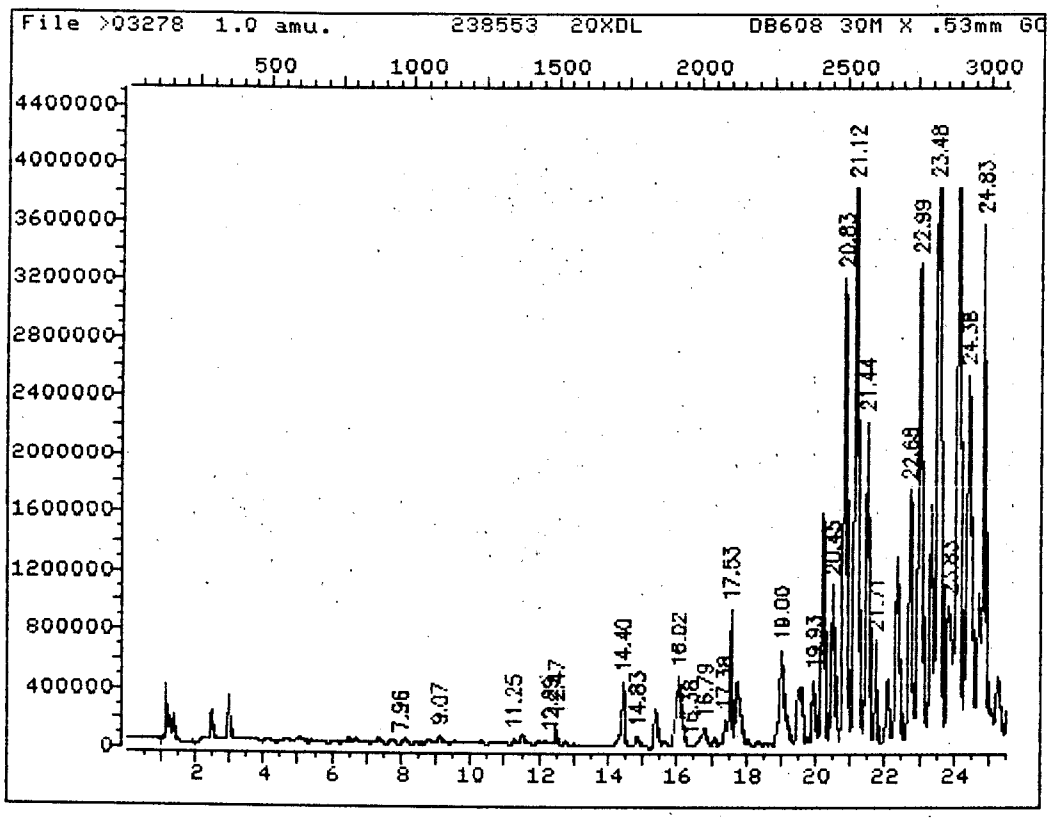
Injection Volume: 1.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

Use these data.

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	38.	U
319-85-7	beta-BHC	38.	U
319-86-8	delta-BHC	38.	U
58-89-9	gamma-BHC (Lindane)	38.	U
76-44-8	Heptachlor	38.	U
309-00-2	Aldrin	38.	U
1024-57-3	Heptachlor epoxide	38.	U
959-98-8	Endosulfan I	38.	U
60-57-1	Dieldrin	73.	U
72-55-9	4,4'-DDE	73.	U
72-20-8	Endrin	73.	U
33213-65-9	Endosulfan II	73.	U
72-54-8	4,4'-DDD	73.	U
1031-07-8	Endosulfan Sulfate	73.	U
50-29-3	4,4'-DDT	73.	U
72-43-5	Methoxychlor	380.	U
53494-70-5	Endrin ketone	73.	U
7421-93-4	Endrin aldehyde	73.	U
5103-71-9	alpha-Chlordane	38.	U
5103-74-2	gamma-Chlordane	38.	U
8001-35-2	Toxaphene	3800.	U
12674-11-2	Aroclor-1016	730.	U
11104-28-2	Aroclor-1221	1500.	U
11141-16-5	Aroclor-1232	730.	U
53469-21-9	Aroclor-1242	730.	U
12672-29-6	Aroclor-1248	730.	U
11097-69-1	Aroclor-1254	90000 ~~43000.~~	E D*
11096-82-5	Aroclor-1260	730.	U

D* value transferred from diluted analysis S8 DL 200 x D/F



Data File: >03278::G4 Quant Output File: ^03278::GQ
Name: 238553 20XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Operator ID: TRFI2
Quant Time : 960713 10:35
Injected at: 960712 08:24

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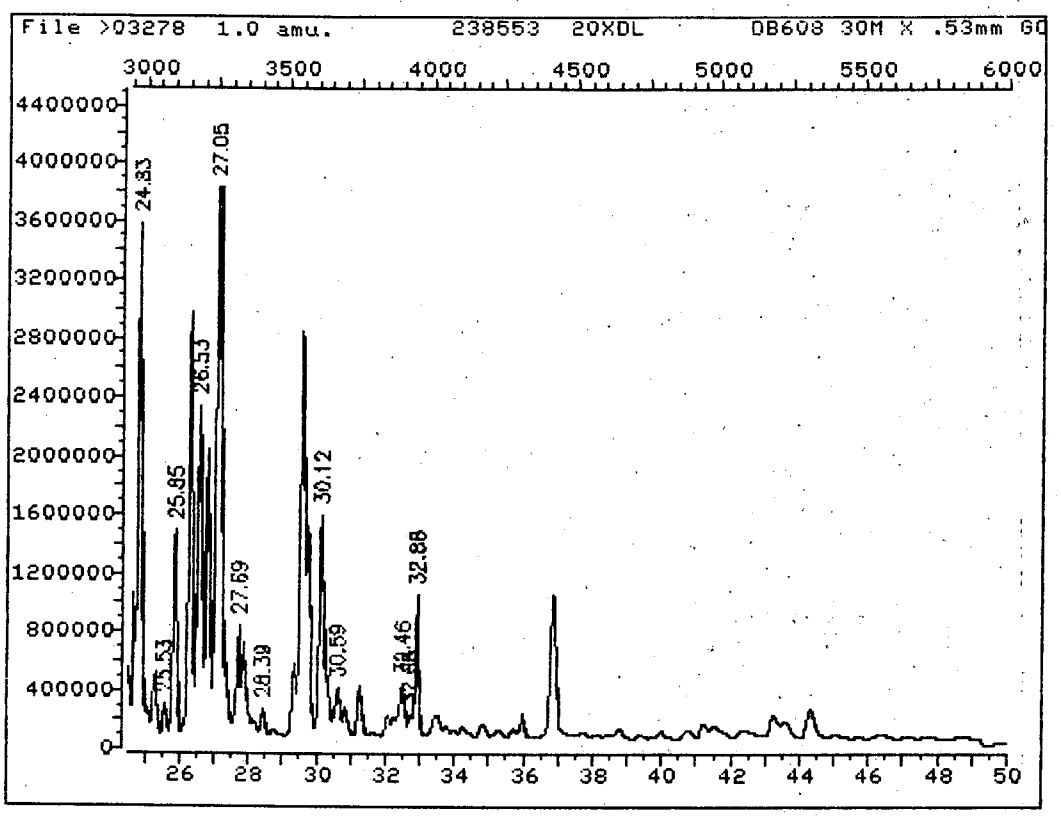
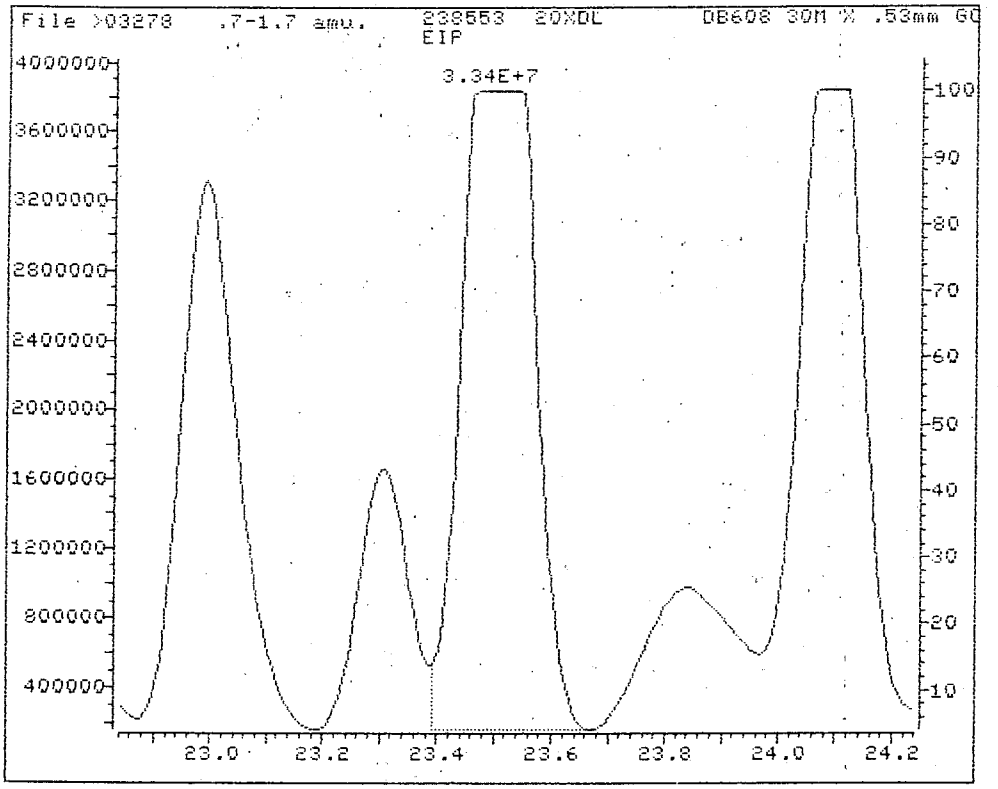


Data File: >03278::G4 Quant Output File: ^03278::GQ
Name: 238553 20XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Operator ID: TRFI2
Quant Time : 960713 10:35
Injected at: 960712 08:24

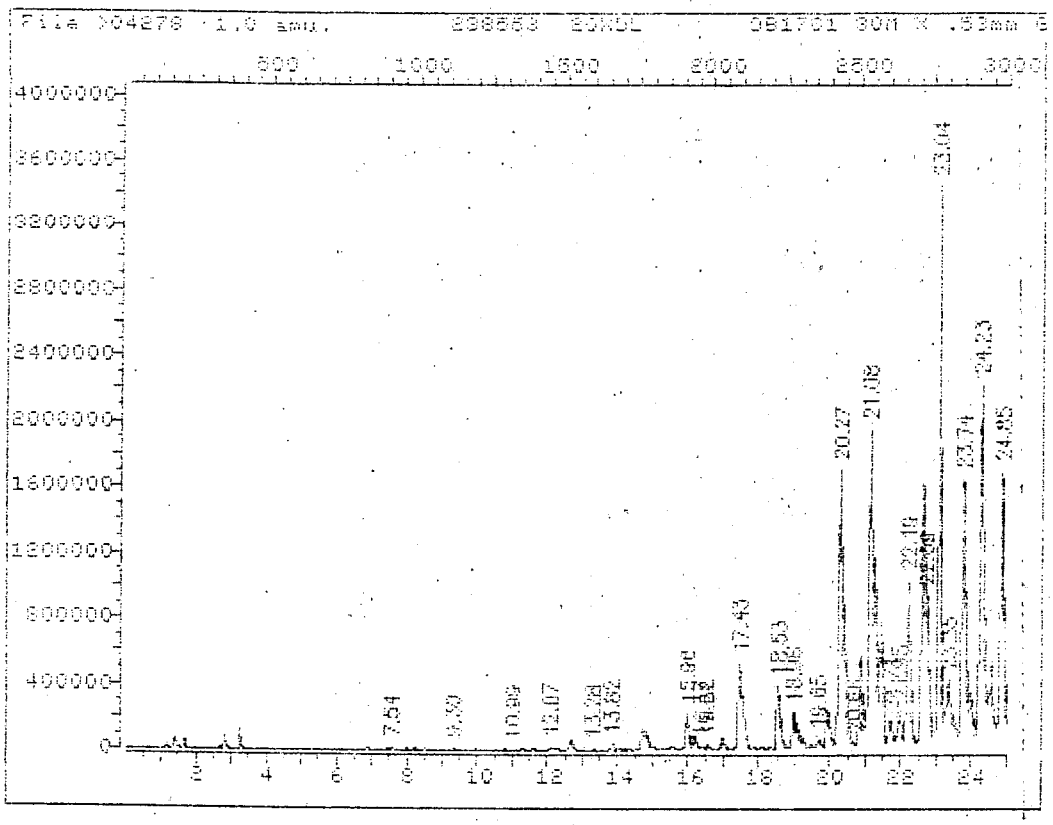
Page 2 of 2



Data File: >03278::G4 Quant Output File: ^03278::GQ
Name: 238553 20XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.
Quant Time: 960713 10:35 Quant ID File: IDCAP1::SC
Injected at: 960712 08:24 Last Calibration: 941029 10:07

Compound No: 53
Compound Name: Aroclor-1254(4)
Scan Number: 2818
Retention Time: 23.48 min.
Quant Ion: 1.0
Area: 33434752M
Concentration: 5507.21 ng/ml
q-value: 100

This report was produced by QAREA on: 960716 08:26

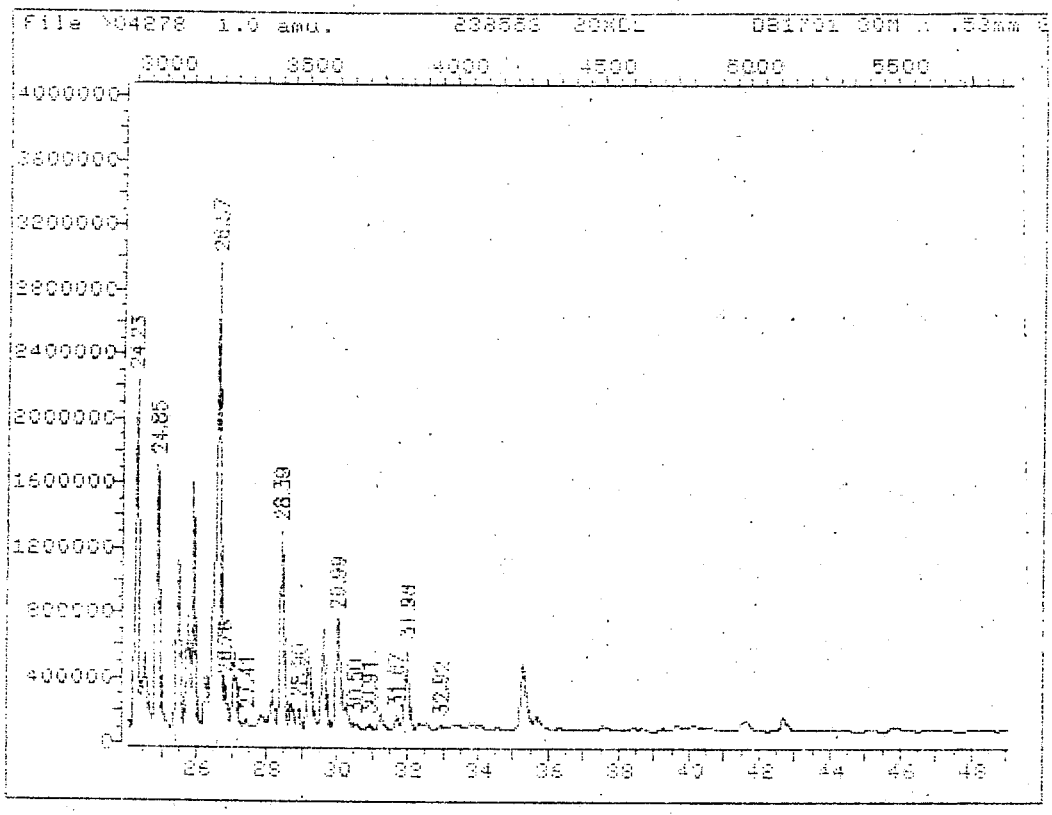


Data File: >04278::G1 Quant Output File: ^04278::G0
Name: 238553 20XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm GC58903 1ul inj.

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qual Time: 960701 21:23

Operator ID: TRFI2
Quant Time : 960712 09:16
Injected at: 960712 08:24

Page 1 of 2



Data File: >04278::G1 Quant Output File: ^04278::GQ
Name: 238553 20XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm GC58903 1ul inj.

Id File: IDCAP2::GC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Seal Time: 960701 21:23

Operator ID: TRFIZ
Quant Time : 960712 09:16
Injected at: 960712 03:24

Page 2 of 2

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960713 10:35
Output File: ^03278::GQ Injected at: 960712 08:24
Data File: >03278::G4 Dilution Factor: 1.00000
Name: 238553 20XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.07	1089	255844	2.04	ng/ml	100
2)	~~#alpha-BHC~~	12.47	1496	825345	5.58	ng/ml	100
3)	~~#beta-BHC~~	14.83	1780	397588	4.84	ng/ml	100
4)	~~#delta-BHC~~	16.38	1966	58944	.488	ng/ml	100
5)	~~#gamma-BHC (Lindane)~~	14.40	1728	3130714	22.91	ng/ml	100
6)	~~#Heptachlor~~	16.02	1923	4233112	54.25	ng/ml	100
7)	~~#Aldrin~~	17.38	2085	782466	5.81	ng/ml	100
8)	~~#Heptachlor epoxide~~	19.93	2392	2440764	22.22	ng/ml	100
9)	~~#Endosulfan~~ I	21.71	2605	4214106	34.59	ng/ml	100
10)	~~#Dieldrin~~	22.99	2759	21899284	231.61	ng/ml	100
11)	~~#4,4'-DDE~~	22.68	2722	13015700	142.28	ng/ml	100
12)	~~#Endrin~~ NT	24.83	2979	22595176	263.99	ng/ml	100
13)	~~#Endosulfan~~ II	25.85	3102	9772102	101.46	ng/ml	100
14)	~~#4,4'-DDD~~	25.53	3063	1324624	23.00	ng/ml	100
15)	~~#Endosulfan Sulfate~~	28.39	3407	1306700	14.74	ng/ml	100
16)	~~#4,4'-DDT~~	27.05	3246	1906118	29.41	ng/ml	100
17)	~~#Methoxychlor~~	32.46	3895	3701308	95.33	ng/ml	100
18)	~~#Endrin ketone~~	32.68	3921	656688	7.29	ng/ml	100
20)	#alpha-Chlordane	21.44	2573	13193826	96.08	ng/ml	100
21)	#gamma-Chlordane	20.83	2499	20623908	175.02	ng/ml	100
22)	~~#Toxaphene(1)~~ NP	23.83	2860	9097264	5672.58	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.29	1475	114937	39.10	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	7.96	955	19563	23.07	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	12.29	1475	114937	40.12	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.29	1475	114937	44.07	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	16.02	1923	4262541	563.29	ng/ml	100
28)	#Aroclor-1254(1)	20.83	2499	20623908	4349.71	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	24.38	2925	18867848	2433.92	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	27.69	3322	5724202	72.57	ng/ml	100
31)	~~#Toxaphene(2)~~ NP	27.69	3322	5710081	3103.06	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	28.39	3407	1306700	522.79	ng/ml	100
33)	~~#Toxaphene(4)~~ NP	30.59	3670	2054067	1065.48	ng/ml	100
34)	~~#Aroclor-1016(2)~~ NP	14.40	1728	3119352	477.19	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	16.02	1923	4262541	385.90	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.79	2015	876243	234.63	ng/ml	100
37)	~~#Aroclor-1016(5)~~ NP	19.00	2280	5620148	1654.12	ng/ml	100
38)	~~#Aroclor-1221(2)~~ NP	11.25	1350	221719	131.95	ng/ml	100
39)	~~#Aroclor-1221(3)~~ NP	12.29	1475	114937	30.12	ng/ml	100
40)	~~#Aroclor-1232(2)~~ NP	14.40	1728	3119352	1105.35	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	16.02	1923	4262541	906.03	ng/ml	100

7/19/96

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960713 10:35
Output File: ^03278::GQ Injected at: 960712 08:24
Data File: >03278::G4 Dilution Factor: 1.00000
Name: 238553 20XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
42)	~~#Aroclor-1232(4)~~ NP	16.79	2015	876243	508.93	ng/ml	100
43)	~~#Aroclor-1242~~(2) NP	14.40	1728	3119352	579.55	ng/ml	100
44)	~~#Aroclor-1242(3)~~ NP	16.02	1923	4262541	478.22	ng/ml	100
45)	~~#Aroclor-1242(4)~~ NP	16.79	2015	876243	277.04	ng/ml	100
46)	~~#Aroclor-1242~~(5) NP	19.00	2280	5620148	1880.30	ng/ml	100
47)	~~#Aroclor-1248(2)~~ NP	17.53	2103	5892121	2258.95	ng/ml	100
48)	~~#Aroclor-1248(3)~~ NP	19.00	2280	5620148	1353.39	ng/ml	100
49)	~~#Aroclor-1248~~(4) NP	20.45	2454	7008264	1446.48	ng/ml	100
50)	~~#Aroclor-1248(5)~~ NP	21.71	2605	4214106	764.36	ng/ml	100
51)	#Aroclor-1254(2)	21.12	2534	27404240	4944.94	ng/ml	100
52)	#Aroclor-1254(3)	22.68	2722	13015700	8072.25	ng/ml	100
53)	#Aroclor-1254(4)	23.48	2818	33434752M	5507.21	ng/ml	100
54)	#Aroclor-1254(5)	24.83	2979	22595176	6301.61	ng/ml	100
55)	~~#Aroclor-1260(2)~~ NP	24.83	2979	22595176	3225.86	ng/ml	100
56)	~~#Aroclor-1260(3)~~ NP	26.53	3183	14679084	2811.95	ng/ml	100
57)	~~#Aroclor-1260~~(4) NP	30.12	3614	12213538	1130.40	ng/ml	100
58)	~~#Aroclor-1260(5)~~ NP	32.88	3945	8064728	1460.74	ng/ml	100

Compound uses ESTD

7/19/96

QUANT REPORT

Operator ID: TRFIZ
Output File: ^04278::G0
Data File: >04278::G1
Name: 258555 20XDL
Misc: DB1701 30M x .53mm 0258903 1ul inj

Quant Rev: 7
Quant Time: 960712 09:16
Injected at: 960712 08:24
Dilution Factor: 1.00000
Instrument ID: GC04

ID File: TDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07
Last Cal Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.30	1116	128860	3.11	ng/ml	100
2)	~~#alpha-BHC~~	13.28	1594	24664	.753	ng/ml	100
3)	~~#beta-BHC~~	18.53	2224	2588574	98.52	ng/ml	100
4)	~~#delta-BHC~~	19.65	2358	294148	12.07	ng/ml	100
6)	~~#Heptachlor~~	16.37	1965	121344	2.56	ng/ml	100
7)	~~#Aldrin~~	17.43	2092	4822577	128.05	ng/ml	100
8)	~~#heptachlor epoxide~~	20.66	2479	20907	.479	ng/ml	100
9)	~~#Endosulfan I~~	21.71	2605	951902	26.66	ng/ml	100
10)	~~#Dieldrin~~	23.35	2802	3070449	94.55	ng/ml	100
11)	~~#4,4'-DDE~~	22.69	2723	4719461	170.01	ng/ml	100
12)	~~#Endrin~~	24.23	2907	15205764	524.55	ng/ml	100
13)	~~#Endosulfan II~~	26.78	3213	1419974	39.67	ng/ml	100
14)	~~#4,4'-DDD~~	26.57	3188	35820180	1221.92	ng/ml	100
15)	~~#Endosulfan Sulfate~~	30.50	3660	338679	12.80	ng/ml	100
16)	~~#4,4'-DDT~~	27.41	3289	285416	17.32	ng/ml	100
17)	~~#Methoxychlor~~	30.91	3709	236077	17.54	ng/ml	100
18)	~~#Endrin ketone~~	32.92	3950	271685	9.65	ng/ml	100
20)	~~#alpha-Chlordane~~	22.19	2663	6293920	150.92	ng/ml	100
21)	~~#gamma-Chlordane~~	21.95	2634	1035585	25.91	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.07	1448	103826	84.07	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	7.54	905	61664	77.97	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	7.54	905	61664	51.78	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.07	1448	103826	98.14	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	13.82	1659	216214	196.29	ng/ml	100
28)	#Aroclor-1254(1)	17.43	2092	4822577	3035.66	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	23.74	2849	10898190	4717.16	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	28.90	3468	913652	30.07	ng/ml	100
31)	~~#Toxaphene(2)~~	28.39	3407	8628660	11971.95	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	30.50	3660	338679	687.16	ng/ml	100
33)	~~#Toxaphene(4)~~	31.67	3800	555445	1106.92	ng/ml	100
34)	~~#Aroclor-1016(2)~~	13.82	1659	216214	88.44	ng/ml	100
35)	~~#Aroclor-1016(3)~~	15.96	1915	1352114	348.86	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.52	1982	180174	123.72	ng/ml	100
37)	~~#Aroclor-1016(5)~~	18.53	2224	2588574	1256.17	ng/ml	100
38)	~~#Aroclor-1221(2)~~	10.99	1319	18573	28.32	ng/ml	100
39)	~~#Aroclor-1221(3)~~ NP	12.07	1448	103826	60.53	ng/ml	100
40)	~~#Aroclor-1232(2)~~	12.07	1448	103826	88.63	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	13.82	1659	216214	209.98	ng/ml	100
42)	~~#Aroclor-1232(4)~~	15.96	1915	1352114	865.55	ng/ml	100
43)	~~#Aroclor-1242(2)~~ NP	13.82	1659	216214	108.85	ng/ml	100

EPui
7/13/96

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 09:16
Output File: 04278::GQ Injected at: 960712 08:24
Data File: 04272::GI Dilution Factor: 1.00000
Name: 238553 10XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm 0138903 1ul inj.

ID File: IDC0F2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

Compound	R.T	Scan#	Area	Conc	Units	q
44) ~~#Aroclor-1242(3)~~	15.96	1915	1352114	438.55	ng/ml	100
45) ~~#Aroclor-1242(4)~~ NP	16.52	1982	180174	157.54	ng/ml	100
46) ~~#Aroclor-1242(5)~~	17.43	2092	4822577	6094.96	ng/ml	100
47) ~~#Aroclor-1248(2)~~	15.96	1915	1352114	517.60	ng/ml	100
48) ~~#Aroclor-1248(3)~~ NP	18.55	2224	2598574	1050.69	ng/ml	100
49) ~~#Aroclor-1248(4)~~	18.96	2275	1211231	686.14	ng/ml	100
50) ~~#Aroclor-1248(5)~~	20.27	2432	11223934	11694.03	ng/ml	100
51) #Aroclor-1254(2)	20.27	2432	11223934	5520.44	ng/ml	100
52) #Aroclor-1254(3)	21.08	2530	11431764	6233.21	ng/ml	100
53) #Aroclor-1254(4)	23.04	2765	21295416	8552.13	ng/ml	100
54) #Aroclor-1254(5)	23.74	2849	18898190	8035.47	ng/ml	100
55) ~~#Aroclor-1260(2)~~	24.85	2982	10057809	3704.38	ng/ml	100
56) ~~#Aroclor-1260(3)~~ UP	28.39	3407	8419180	4743.65	ng/ml	100
57) ~~#Aroclor-1260(4)~~	29.99	3599	5465455	1390.14	ng/ml	100
58) ~~#Aroclor-1260(5)~~	31.98	3837	4877135	1963.85	ng/ml	100

Compound uses ESTD

EPM
7/13/96

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S8	DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Matrix: (soil/water) SOIL Lab Sample ID: 238553

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 03235

% Moisture: 11. decanted: (Y/N) N Date Received: 06/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/03/96

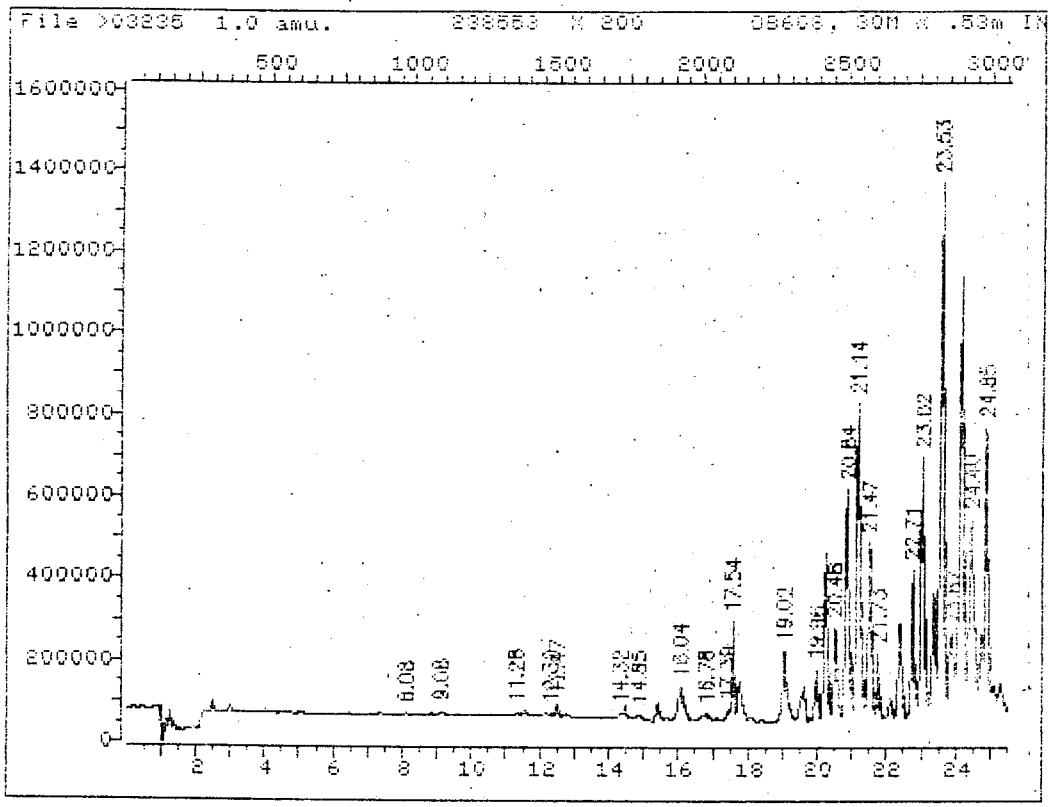
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/10/96

Injection Volume: 1.0 (uL) Dilution Factor: 200.0

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

Do not use these data.

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	380.	U
319-85-7	beta-BHC	380.	U
319-86-8	delta-BHC	380.	U
58-89-9	gamma-BHC (Lindane)	380.	U
76-44-8	Heptachlor	380.	U
309-00-2	Aldrin	380.	U
1024-57-3	Heptachlor epoxide	380.	U
959-98-8	Endosulfan I	380.	U
60-57-1	Dieldrin	730.	U
72-55-9	4,4'-DDE	730.	U
72-20-8	Endrin	730.	U
33213-65-9	Endosulfan II	730.	U
72-54-8	4,4'-DDD	730.	U
1031-07-8	Endosulfan Sulfate	730.	U
50-29-3	4,4'-DDT	730.	U
72-43-5	Methoxychlor	3800.	U
53494-70-5	Endrin ketone	730.	U
7421-93-4	Endrin aldehyde	730.	U
5103-71-9	alpha-Chlordane	380.	U
5103-74-2	gamma-Chlordane	380.	U
8001-35-2	Toxaphene	38000.	U
12674-11-2	Aroclor-1016	7300.	U
11104-28-2	Aroclor-1221	15000.	U
11141-16-5	Aroclor-1232	7300.	U
53469-21-9	Aroclor-1242	7300.	U
12672-29-6	Aroclor-1248	7300.	U
11097-69-1	Aroclor-1254	90000.	D
11096-82-5	Aroclor-1260	7300.	U

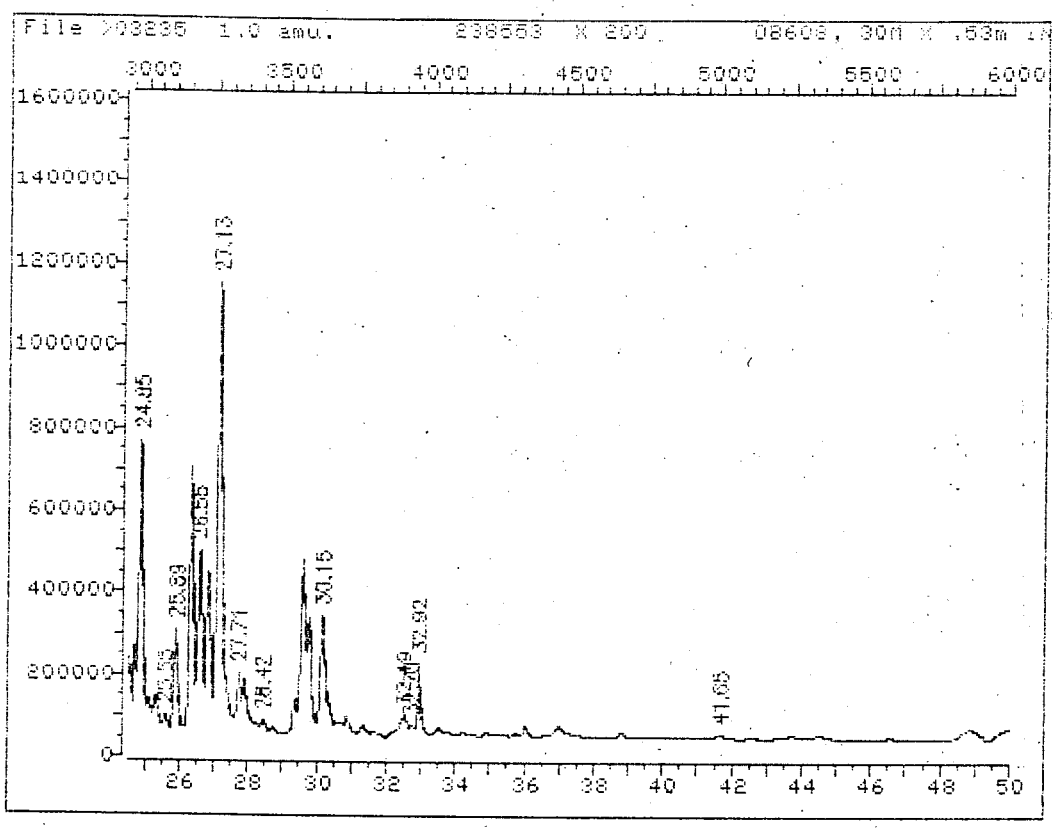


Data File: >03235::G3 Quant Output File: ^03235::F3
Name: 238553 X 200 Instrument ID: GC03
Misc: DB608, 30M X .53m INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Operator ID: TRFIL
Quant Time : 960710 07:28
Injected at: 960710 06:34

Page 1 of 2

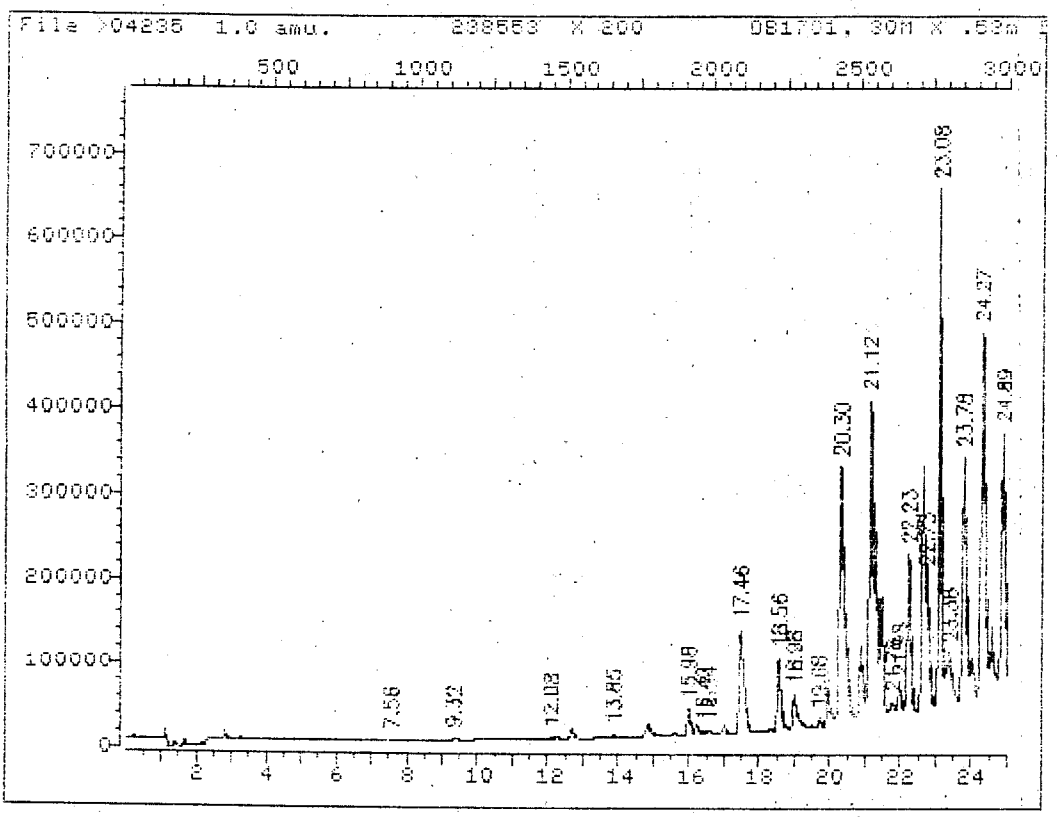


Data File: >03235::G3 Quant Output File: ^03235::F3
Name: 238553 X 200 Instrument ID: GC03
Misc: DB608, 30M X .53m INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qual Time: 960702 00:13

Operator ID: TRFIL
Quant Time : 960710 07:28
Injected at: 960710 06:34

Page 2 of 2

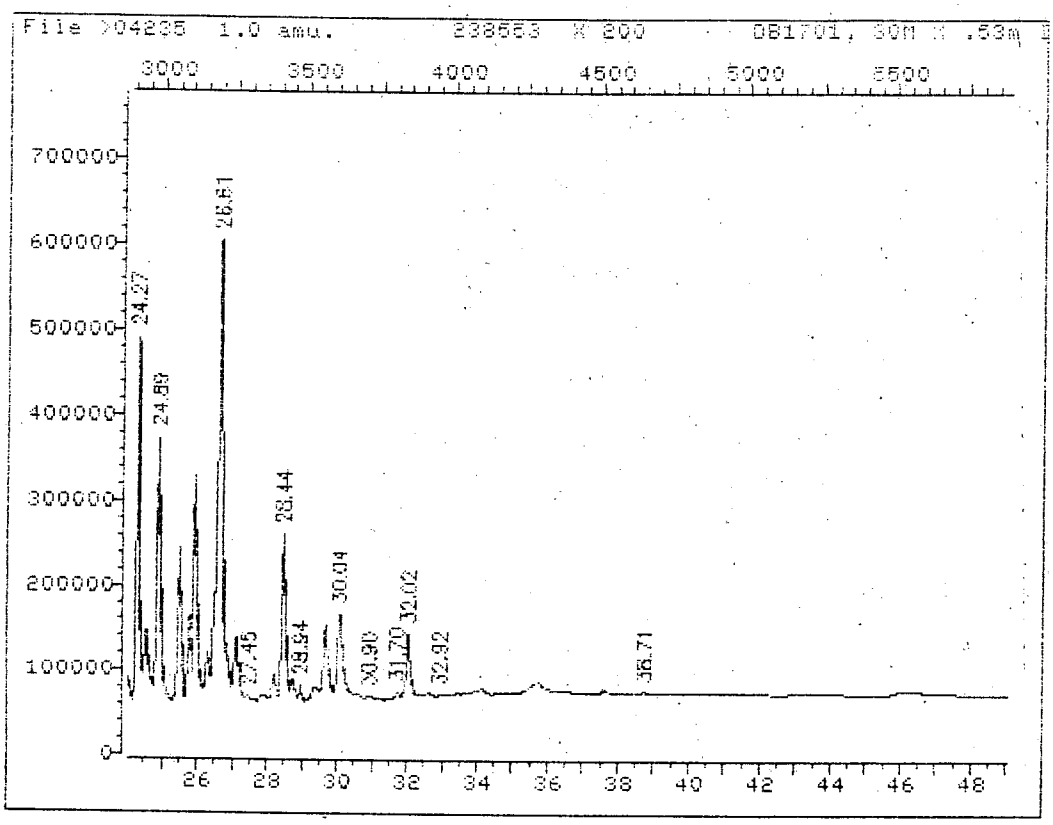


Data File: >04235::G1 Quant Output File: ^04235::F3
Name: 238553 X 200 Instrument ID: GC04
Misc: DB1701, 30M X .53m INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Goal Time: 960701 21:23

Operator ID: TRFIL
Quant Time : 960710 07:26
Injected at: 960710 06:34

Page 1 of 2



Data File: >04235::G1 Quant Output File: ^04235::F3
Name: 238553 X 200 Instrument ID: GC04
Misc: DB1701, 30M X .53m INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

Operator ID: TRFIL
Quant Time : 960710 07:26
Injected at: 960710 06:34

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QUANT REPORT

Operator ID: TRFIL
Output File: ^03235::F3
Data File: >03235::G3
Name: 238553 X 200
Misc: DB608, 30M X .53m INST 58903, 1ul INJ

Quant Rev: 7
Quant Time: 960710 07:28
Injected at: 960710 06:34
Dilution Factor: 1.00000
Instrument ID: GC03

SBDL

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07
Last Ccal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.08	1090	38496	.308	ng/ml	100
2)	~~#alpha BHC~~	12.47	1497	180368	1.22	ng/ml	100
3)	~~#beta BHC~~	14.85	1782	273629	3.33	ng/ml	100
5)	~~#gamma BHC (Lindane)~~	14.32	1718	63784	.467	ng/ml	100
6)	~~#Heptachlor~~	16.04	1925	661572	8.48	ng/ml	100
7)	~~#Aldrin~~	17.39	2087	131264	.974	ng/ml	100
8)	~~#Heptachlor epoxide~~	19.96	2395	729356	6.64	ng/ml	100
9)	~~#Endosulfan I~~	21.47	2576	2578397	21.16	ng/ml	100
10)	~~#Dieldrin~~	23.02	2762	3979200	42.09	ng/ml	100
11)	~~#4,4'-DDE~~	22.71	2725	2796325	30.57	ng/ml	100
12)	~~#Endrin~~	24.85	2982	4729562	55.26	ng/ml	100
13)	~~#Endosulfan II~~	25.89	3106	1750053	18.17	ng/ml	100
14)	~~#4,4'-DDD~~	25.55	3066	275334	4.78	ng/ml	100
15)	~~#Endosulfan Sulfate~~	28.42	3410	196988	2.22	ng/ml	100
16)	~~#4,4'-DDT~~	27.13	3255	6145287	125.67	ng/ml	100
17)	~~#Methoxychlor~~	32.49	3899	330411	8.51	ng/ml	100
18)	~~#Endrin ketone~~	32.70	3924	123809	1.38	ng/ml	100
19)	#Decachlorobiphenyl	41.65	4998	259790	2.17	ng/ml	100
20)	~~#alpha Chlordane~~ NT	21.47	2576	2578397	18.78	ng/ml	100
21)	~~#gamma Chlordane~~ NT	20.84	2501	3636025	30.86	ng/ml	100
22)	~~#Toxaphene(1)~~ NP	23.87	2864	1508821	940.82	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.30	1476	16167	5.50	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	8.08	970	31052	36.62	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	12.30	1476	16167	5.64	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.30	1476	16167	6.20	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	16.04	1925	679662	89.82	ng/ml	100
28)	#Aroclor-1254(1)	20.84	2501	3636025	766.86	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	24.40	2928	3792889	489.28	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	27.71	3325	961463	12.19	ng/ml	100
31)	~~#Toxaphene(2)~~ NP	27.71	3325	951370	517.01	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	28.42	3410	196988	78.81	ng/ml	100
34)	~~#Aroclor-1016(2)~~ NP	14.32	1718	67296	10.29	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	16.04	1925	679662	61.53	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.78	2014	104496	27.98	ng/ml	100
37)	~~#Aroclor-1016(5)~~ NP	19.02	2282	1314977	387.02	ng/ml	100
38)	~~#Aroclor-1221(2)~~ NP	11.28	1354	36995	22.02	ng/ml	100
39)	~~#Aroclor-1221(3)~~ NP	12.30	1476	16167	4.24	ng/ml	100
40)	~~#Aroclor-1232(2)~~ NP	14.32	1718	67296	23.85	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	16.04	1925	679662	144.47	ng/ml	100
42)	~~#Aroclor-1232(4)~~ NP	16.78	2014	104496	60.69	ng/ml	100

EPrin
7/10/96

Operator ID: TRFIL Quant Rev: 7 Quant Time: 960710 07:28
Output File: ^03235::F3 Injected at: 960710 06:34
Data File: >03235::G3 Dilution Factor: 1.00000
Name: 239553 X 200 Instrument ID: GC03
Misc: DB608, 30M X .53m INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
43)	~~#Aroclor-1242(2)~~ NP	14.32	1718	67296	12.50	ng/ml	100
44)	~~#Aroclor-1242(3)~~ NP	16.04	1925	679662	76.25	ng/ml	100
45)	~~#Aroclor-1242(4)~~ NP	16.78	2014	104496	33.04	ng/ml	100
46)	~~#Aroclor-1242(5)~~ NP	19.02	2282	1314977	439.94	ng/ml	100
47)	~~#Aroclor-1248(2)~~ NP	17.54	2105	1531881	587.30	ng/ml	100
48)	~~#Aroclor-1248(3)~~ NP	19.02	2282	1314977	316.66	ng/ml	100
49)	~~#Aroclor-1248(4)~~ NP	20.48	2457	1420378	293.16	ng/ml	100
50)	~~#Aroclor-1248(5)~~ NP	21.73	2608	1001642	181.68	ng/ml	100
51)	#Aroclor-1254(2)	21.14	2537	5421080	978.20	ng/ml	100
52)	#Aroclor-1254(3)	22.71	2725	2796325	1734.26	ng/ml	100
53)	#Aroclor-1254(4)	23.53	2823	8399524	1383.53	ng/ml	100
54)	#Aroclor-1254(5)	24.85	2982	4729562	1319.04	ng/ml	100
55)	~~#Aroclor-1260(2)~~ NP	24.85	2982	4729562	675.23	ng/ml	100
56)	~~#Aroclor-1260(3)~~ NP	26.55	3186	3187850	610.67	ng/ml	100
57)	~~#Aroclor-1260(4)~~ NP	30.15	3618	2133409	197.45	ng/ml	100
58)	~~#Aroclor-1260(5)~~ NP	32.92	3950	1476418	267.42	ng/ml	100

Compound uses ESTD

Ebma
7/10/96

QUANT REPORT

Operator ID: TRFIL
Quant Rev: 7
Quant Time: 960710 07:26
Output File: ^04235::F3
Injected at: 960710 06:34
Data File: >04235::G1
Dilution Factor: 1.00000
Name: 238553 X 200
Instrument ID: GC04
Misc: DB1701, 30M X .53m INST 58903. 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07
Last Scal Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.32	1118	17867	.431	ng/ml	100
3)	~~#beta BHC~~	18.56	2227	576178	21.93	ng/ml	100
4)	~~#delta BHC~~	19.68	2362	61769	2.53	ng/ml	100
6)	~~#Heptachlor~~	16.40	1968	9689	.204	ng/ml	100
7)	~~#Aldrin~~	17.46	2095	1090860	28.97	ng/ml	100
9)	~~#Endosulfan~~ I	21.78	2614	80346	2.25	ng/ml	100
10)	~~#Dieldrin~~	23.38	2806	265128	8.16	ng/ml	100
11)	~~#4,4' DDE~~	22.73	2727	776887	27.99	ng/ml	100
12)	~~#Endrin~~	24.27	2912	3270567	112.82	ng/ml	100
13)	~~#Endosulfan II~~ NT	26.61	3193	4394196	122.78	ng/ml	100
14)	~~#4,4' DDD~~	26.61	3193	4380093	207.28	ng/ml	100
16)	~~#4,4' DD~~T	27.45	3294	23811	1.44	ng/ml	100
17)	~~#Methoxychlor~~	30.90	3708	29774	2.21	ng/ml	100
18)	~~#Endrin ketone~~	32.92	3950	5731	.204	ng/ml	100
19)	#Decachlorobiphenyl	38.71	4645	23533	.504	ng/ml	100
20)	~~#alpha-Chlordane~~ NT	22.23	2667	1187995	28.49	ng/ml	100
21)	~~#gamma-Chlordane~~ NT	21.98	2637	151707	3.80	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.08	1450	6428	5.20	ng/ml	100
24)	~~#Aroclor 1221(1)~~ NP	7.56	907	5738	7.26	ng/ml	100
25)	~~#Aroclor 1232(1)~~ NP	7.56	907	5738	4.82	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.08	1450	6428	6.08	ng/ml	100
27)	~~#Aroclor 1248(1)~~ NP	13.85	1662	29764	27.02	ng/ml	100
28)	#Aroclor-1254(1)	17.46	2095	1088641	685.27	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	23.78	2853	2031856	879.47	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	28.94	3472	140519	4.62	ng/ml	100
31)	~~#Toxaphene(2)~~ NP	28.44	3412	1474078	2045.23	ng/ml	100
33)	~~#Toxaphene(4)~~ NP	31.70	3804	57585	114.76	ng/ml	100
34)	~~#Aroclor-1016(2)~~ NP	13.85	1662	29764	12.17	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	15.98	1918	192840	49.71	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.54	1985	29778	20.45	ng/ml	100
37)	~~#Aroclor-1016(5)~~ NP	18.56	2227	576178	279.61	ng/ml	100
39)	~~#Aroclor 1221(3)~~ NP	12.08	1450	6428	3.75	ng/ml	100
40)	~~#Aroclor 1232(2)~~ NP	12.08	1450	6428	5.49	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	13.85	1662	29764	28.91	ng/ml	100
42)	~~#Aroclor 1232(4)~~ NP	15.98	1918	192840	123.45	ng/ml	100
43)	~~#Aroclor 1242(2)~~ NP	13.85	1662	29764	14.98	ng/ml	100
44)	~~#Aroclor 1242(3)~~ NP	15.98	1918	192840	62.55	ng/ml	100
45)	~~#Aroclor 1242(4)~~ NP	16.54	1985	29778	26.05	ng/ml	100
46)	~~#Aroclor-1242(5)~~ NP	17.46	2095	1088641	1375.87	ng/ml	100
47)	~~#Aroclor 1248(2)~~ NP	15.98	1918	192840	73.82	ng/ml	100

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7/10/96

Operator ID: TRFIL Quant Rev: 7 Quant Time: 960710 07:26
Output File: ^04235::F3 Injected at: 960710 06:34
Data File: >04235::G1 Dilution Factor: 1.00000
Name: 238553 X 200 Instrument ID: GC04
Misc: DB1701, 30M X .53m INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Scal Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
48)	~~#Aroclor-1248(3)~~ NP	18.56	2227	576178	233.87	ng/ml	100
49)	~~#Aroclor-1248(4)~~ NP	18.98	2278	243901	138.16	ng/ml	100
50)	~~#Aroclor-1248(5)~~ NP	20.30	2436	2225097	2318.29	ng/ml	100
51)	#Aroclor-1254(2)	20.30	2436	2225097	1094.40	ng/ml	100
52)	#Aroclor-1254(3)	21.12	2534	2223023	1212.11	ng/ml	100
53)	#Aroclor-1254(4)	23.08	2769	3978258	1560.28	ng/ml	100
54)	#Aroclor-1254(5)	23.78	2853	2031856	1498.13	ng/ml	100
55)	~~#Aroclor-1260(2)~~ NP	24.89	2986	2349396	865.30	ng/ml	100
56)	~~#Aroclor-1260(3)~~ NP	28.44	3412	1478943	833.28	ng/ml	100
57)	~~#Aroclor-1260(4)~~ NP	30.04	3605	969836	246.68	ng/ml	100
58)	~~#Aroclor-1260(5)~~ NP	32.02	3842	759711	305.91	ng/ml	100

Compound uses ESTD

EPrii
7/10/96

QUANT REPORT

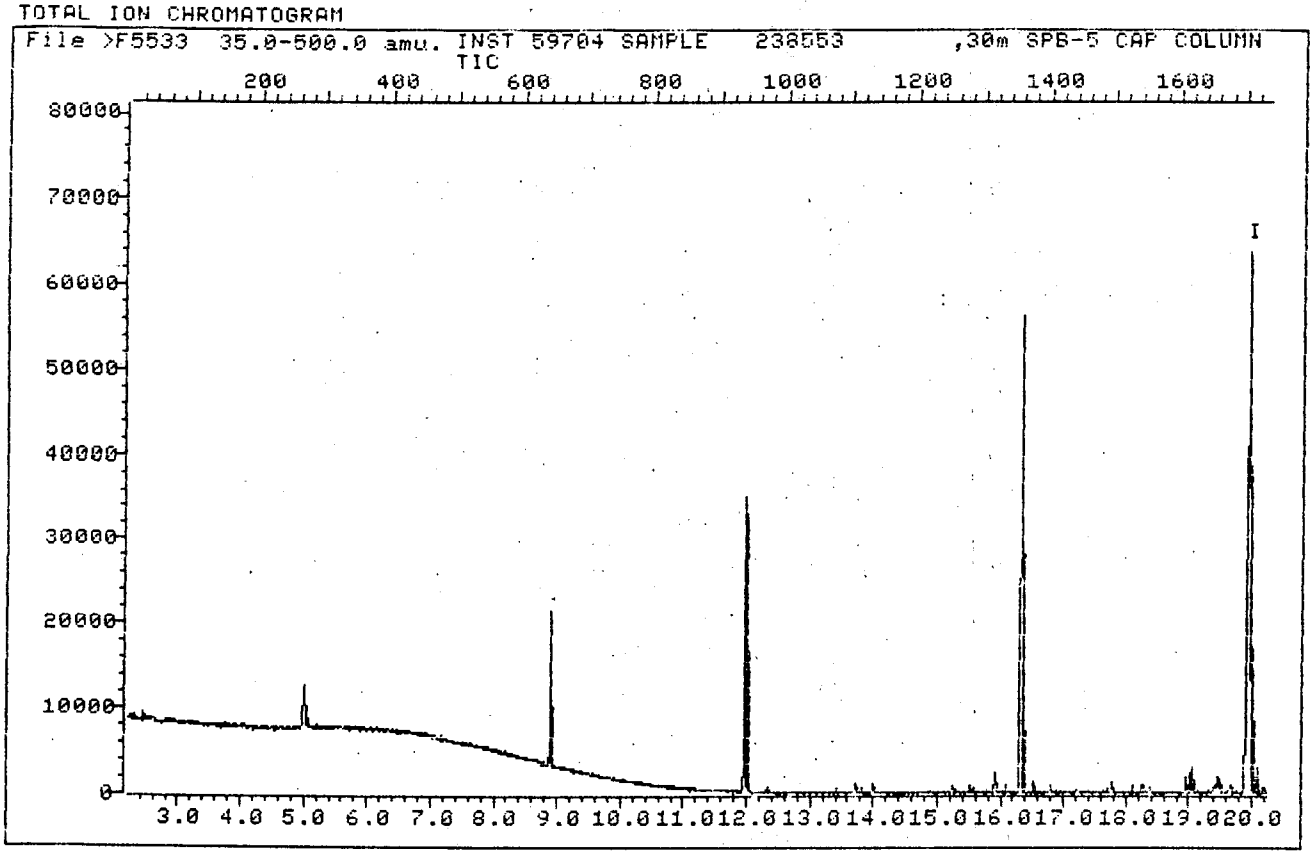
Operator ID: GT0101 Quant Rev: 7 Quant Time: 960709 19:01
Output File: ^F5533::QT Injected at: 960709 18:22
Data File: >F5533::F1 Dilution Factor: 1.00000
Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 238553 ,30m SPB-5 CAP. COLUMN BTL#11

ID File: IDPEST::SC
Title: CLP PESTICIDE CONFIRMATION FILE
Last Calibration: : Last Qcal Time: 960705 12:13

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Phenanthrene-d10	19.92	188.0	49522	40.00	UG/ML	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >F5533::F1 Quant Output File: ^F5533::QT
Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 238553 ,30m SPB-5 CAP COLUMN BTL#11

Id File: IDPEST::SC
Title: CLP PESTICIDE CONFIRMATION FILE
Last Calibration: : Last Qcal Time: 960705 12:13

Operator ID: GT0101
Quant Time : 960709 19:01
Injected at: 960709 18:22

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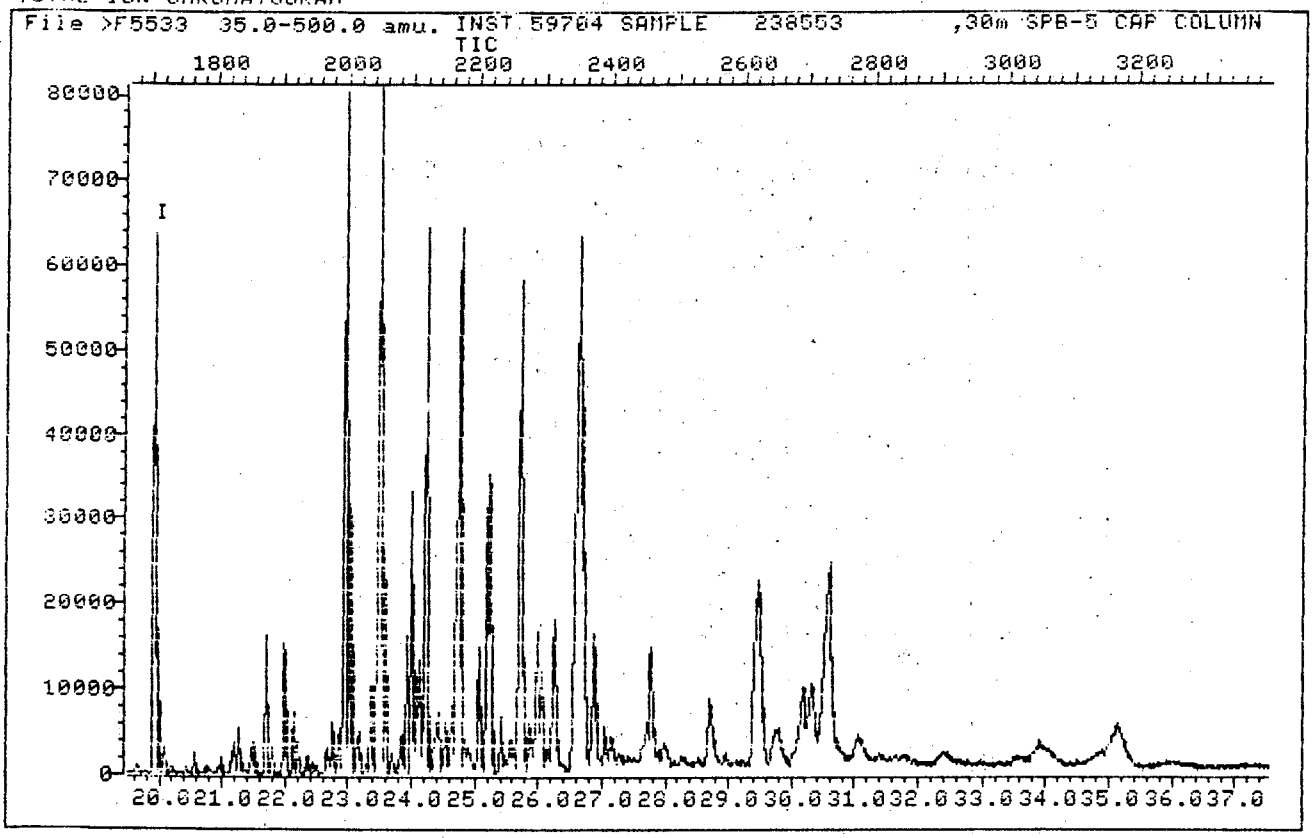
TOTAL ION CHROMATOGRAM



Data File: >F5533::F1 Quant Output File: ^F5533::QT
Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 238553 ,30m SPB-5 CAP COLUMN BTL#11

Id File: IDPEST::SC
Title: CLP PESTICIDE CONFIRMATION FILE
Last Calibration: : Last Qcal Time: 960705 12:13

Operator ID: GT0101
Quant Time : 960709 19:01
Injected at: 960709 18:22

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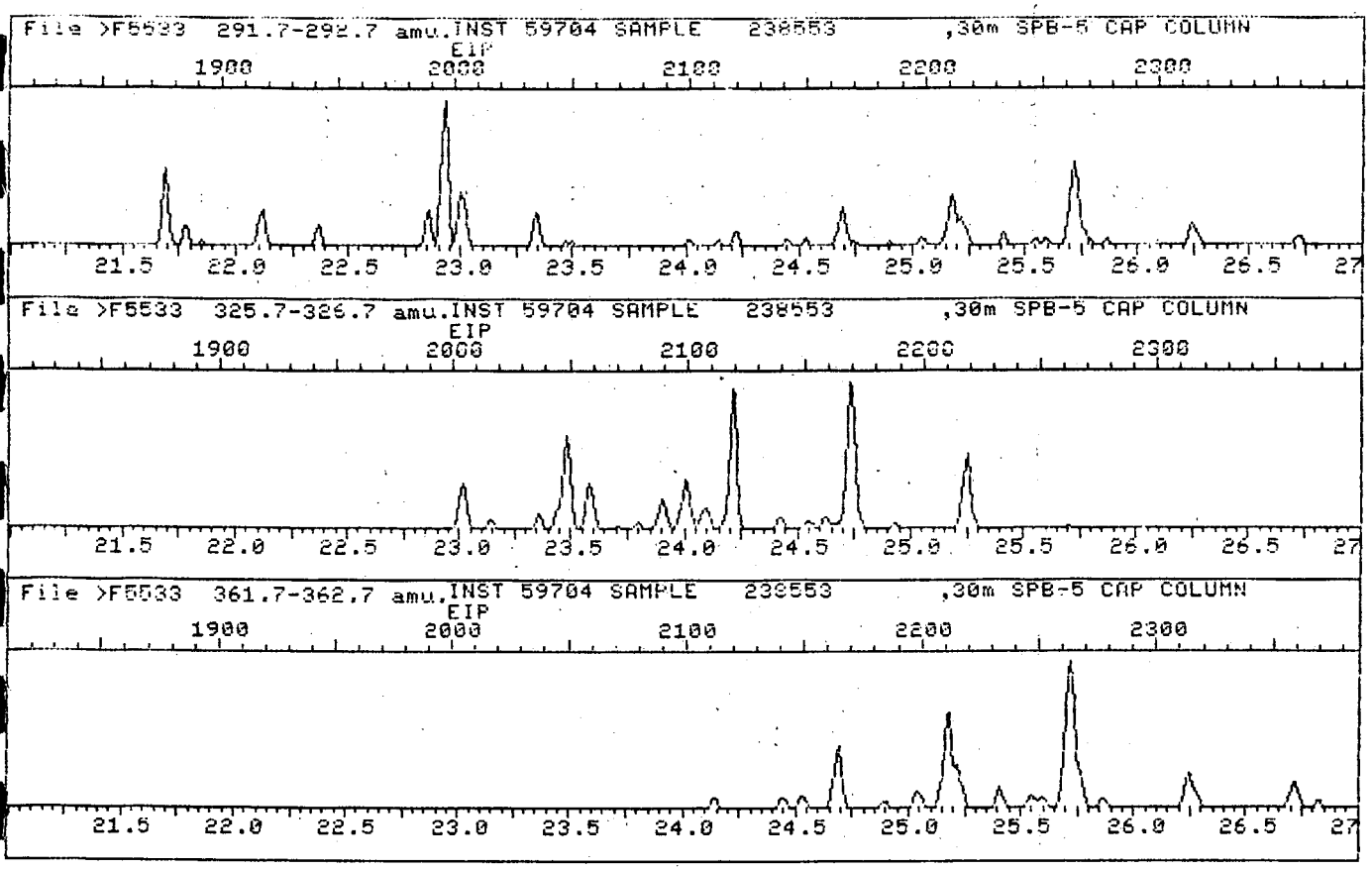


MS data file header from : >F5533::F1

Sample: INST 59704 SAMPLE Operator: GT0101 SUPER GRP. 7/09/96 18:22
Misc : 238553 ,30m SPB-5 CAP COLUMN BTL#11
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 11 Equip ID: INST F
Method file: BNP4 Tuning file: MTA004 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	40.	280.	300.	0.	0.
Chromatographic times, min. :	4.0	1.0	20.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	10.0	0.0	0.0	0.0

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S9

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Matrix: (soil/water) SOIL Lab Sample ID: 238555

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 03280

% Moisture: 14. decanted: (Y/N) N Date Received: 06/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/03/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/12/96

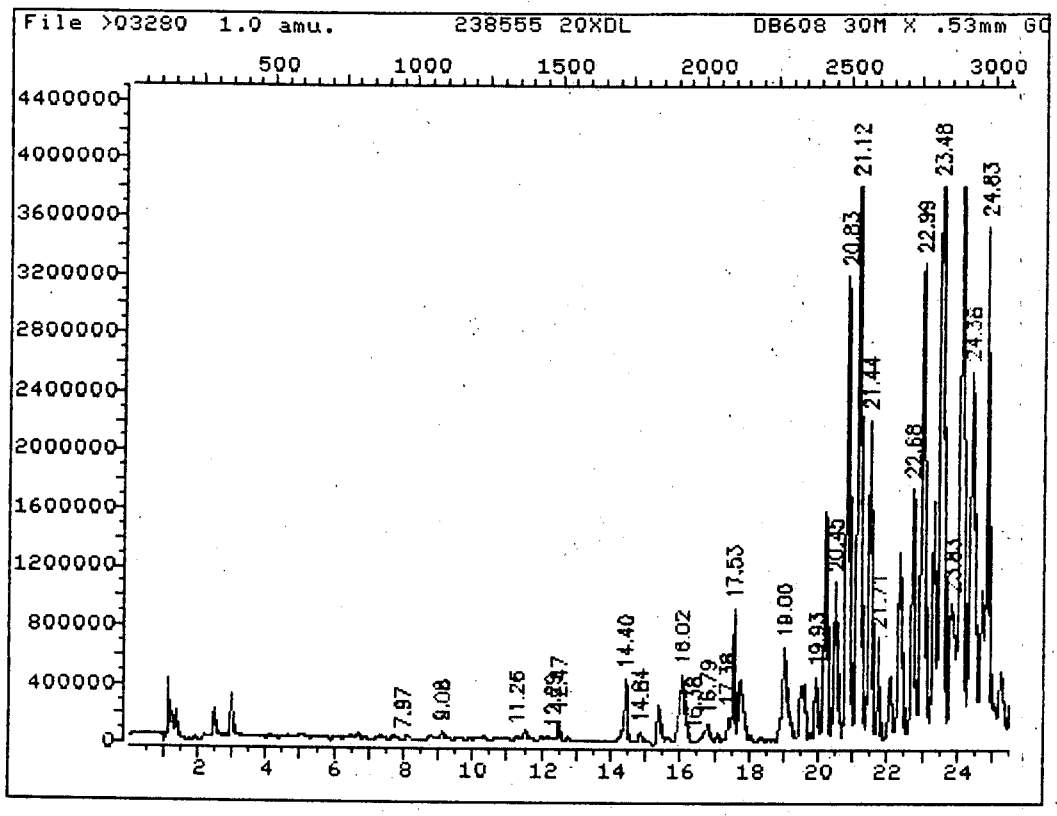
Injection Volume: 1.0 (uL) Dilution Factor: 20.0

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

Use these data.

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	39.	U
319-85-7	beta-BHC	39.	U
319-86-8	delta-BHC	39.	U
58-89-9	gamma-BHC (Lindane)	39.	U
76-44-8	Heptachlor	39.	U
309-00-2	Aldrin	39.	U
1024-57-3	Heptachlor epoxide	39.	U
959-98-8	Endosulfan I	39.	U
60-57-1	Dieldrin	76.	U
72-55-9	4,4'-DDE	76.	U
72-20-8	Endrin	76.	U
33213-65-9	Endosulfan II	76.	U
72-54-8	4,4'-DDD	76.	U
1031-07-8	Endosulfan Sulfate	76.	U
50-29-3	4,4'-DDT	76.	U
72-43-5	Methoxychlor	390.	U
53494-70-5	Endrin ketone	76.	U
7421-93-4	Endrin aldehyde	76.	U
5103-71-9	alpha-Chlordane	39.	U
5103-74-2	gamma-Chlordane	39.	U
8001-35-2	Toxaphene	3900.	U
12674-11-2	Aroclor-1016	760.	U
11104-28-2	Aroclor-1221	1600.	U
11141-16-5	Aroclor-1232	760.	U
53469-21-9	Aroclor-1242	760.	U
12672-29-6	Aroclor-1248	760.	U
11097-69-1	Aroclor-1254	73000 ~~45000.~~	E D*
11096-82-5	Aroclor-1260	760.	U

D* value transferred from diluted analysis S9DL 200 x D/F.

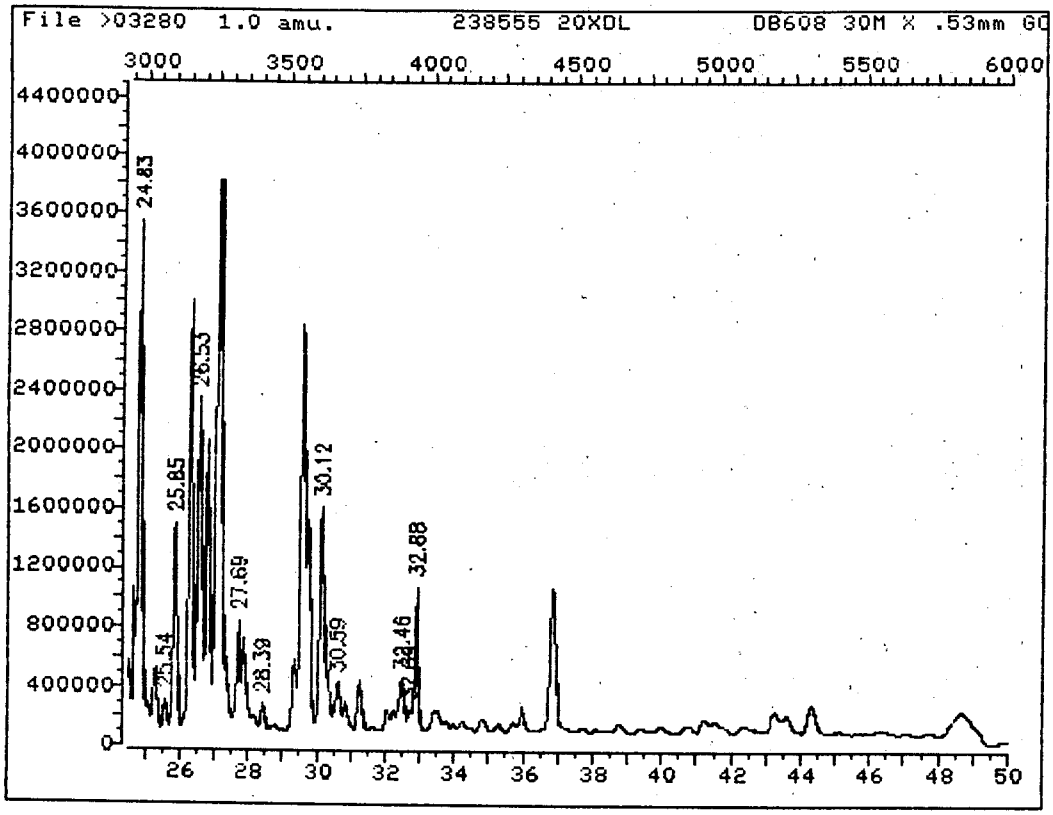


Data File: >03280::G4 Quant Output File: ^03280::GQ
Name: 238555 20XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Operator ID: TRFI2
Quant Time : 960712 14:57
Injected at: 960712 10:08

Page 1 of 2

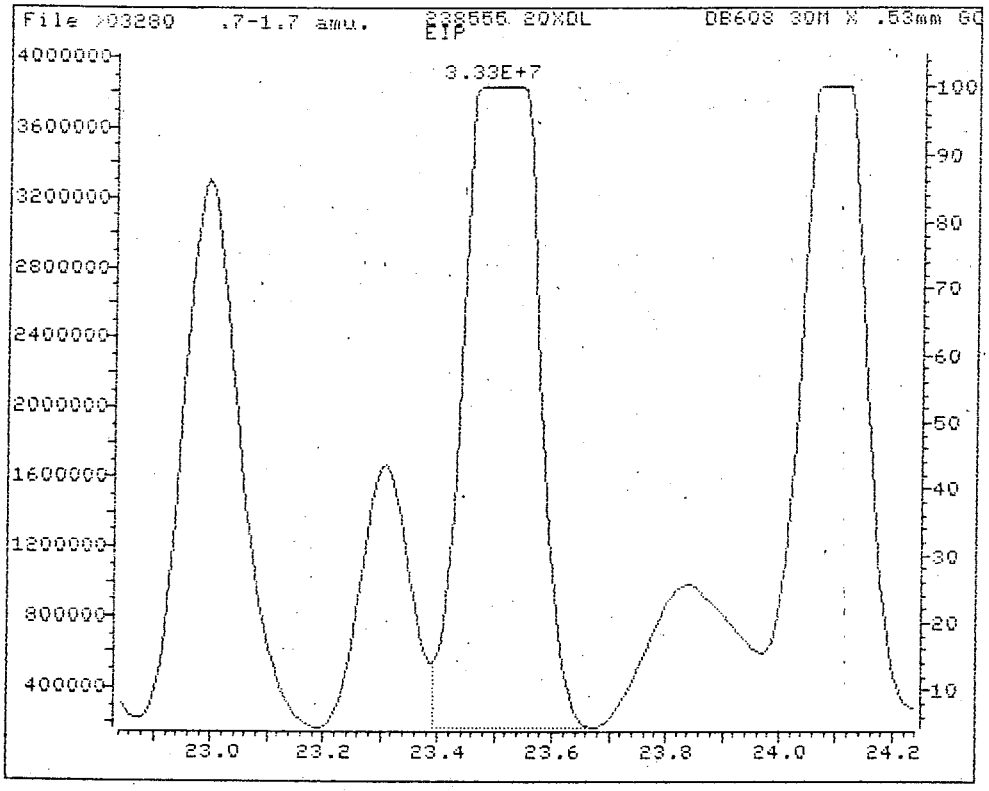


Data File: >03280::G4 Quant Output File: ^03280::GQ
Name: 238555 20XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Operator ID: TRFI2
Quant Time : 960712 14:57
Injected at: 960712 10:08

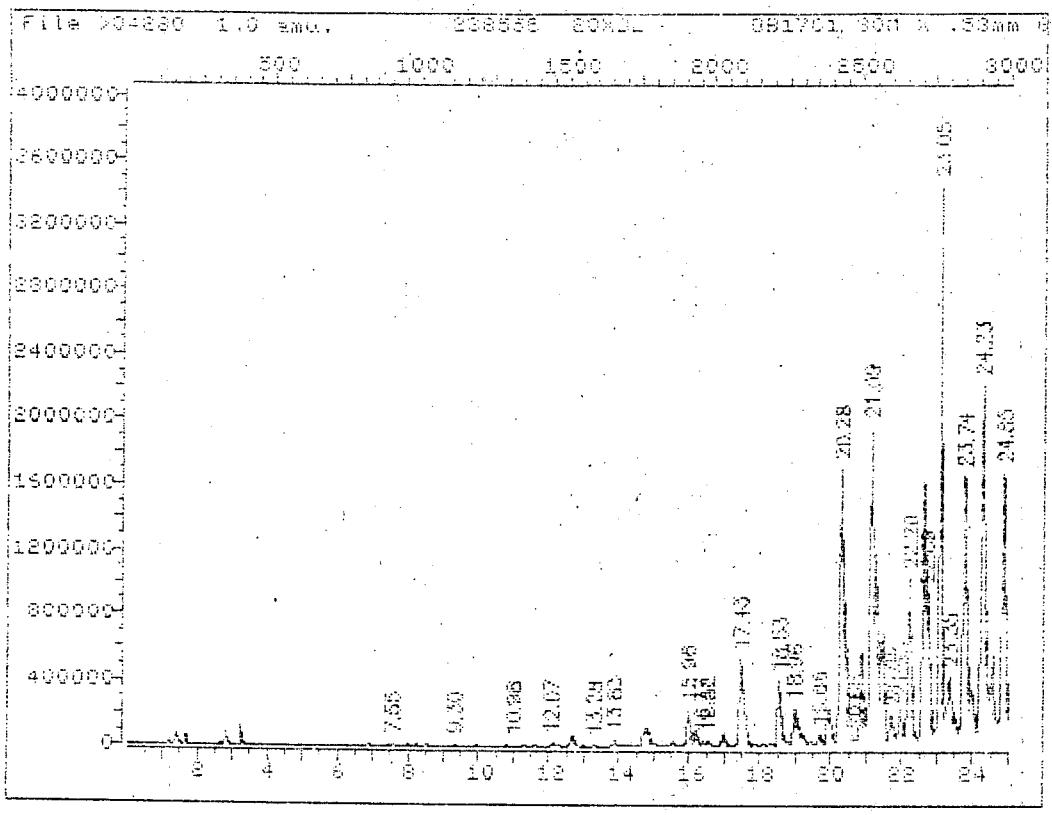
Page 2 of 2



Data File: >03280::G4 Quant Output File: ^03280::GQ
Name: 238555 20XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.
Quant Time: 960712 14:57 Quant ID File: IDCAP1::SC
Injected at: 960712 10:08 Last Calibration: 941029 10:07

Compound No: 53
Compound Name: Aroclor-1254(4)
Scan Number: 2818
Retention Time: 23.48 min.
Quant Ion: 1.0
Area: 33312788M
Concentration: 5487.12 ng/ml
q-value: 100

This report was produced by QAREA on: 960716 08:47



Data File: >04280::G1 Quant Output File: ^04280::GQ
Name: 238555 20XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm GC58903 1ul inj.

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07. Last Cal Time: 960701 21:23

Operator ID: TRFI2
Quant Time : 960712 13:59
Injected at: 960712 10:08

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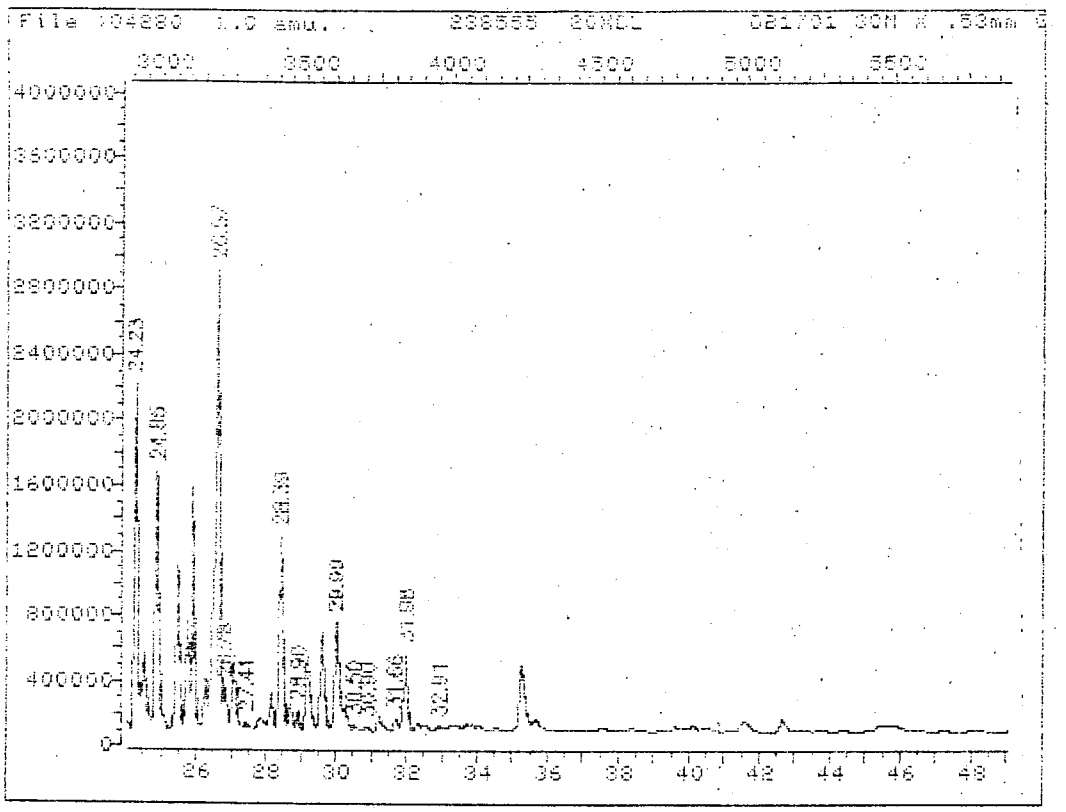

Data File: >04280::G1 Quant Output File: ^04280::GQ
Name: 238555 20XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm GC58903 1ul inj.

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

Operator ID: TRFIZ
Quant Time : 960712 13:59
Injected at: 960712 10:08

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QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 14:57
Output File: ^03280::GQ Injected at: 960712 10:08
Data File: >03280::G4 Dilution Factor: 1.00000
Name: 238555 20XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.08	1090	249788	2.00	ng/ml	100
2)	~~#alpha-BHC~~	12.47	1496	804393	5.43	ng/ml	100
3)	~~#beta-BHC~~	14.84	1781	378877	4.62	ng/ml	100
4)	~~#delta-BHC~~	16.38	1966	55674	.461	ng/ml	100
5)	~~#gamma-BHC (Lindane)~~	14.40	1728	3078012	22.52	ng/ml	100
6)	~~#Heptachlor~~	16.02	1923	4927694	63.16	ng/ml	100
7)	~~#Aldrin~~	17.38	2085	752814	5.59	ng/ml	100
8)	~~#Heptachlor epoxide~~ NT	19.93	2392	2384863	21.71	ng/ml	100
9)	~~#Endosulfan~~ I	21.71	2605	4144839	34.02	ng/ml	100
10)	~~#Dieldrin~~	22.99	2759	21761320	230.15	ng/ml	100
11)	~~#4,4'-DDE~~	22.68	2722	12937460	141.43	ng/ml	100
12)	~~#Endrin~~	24.83	2979	23734272	277.29	ng/ml	100
13)	~~#Endosulfan~~ II	25.85	3102	9677176	100.48	ng/ml	100
14)	~~#4,4'-DDD~~	25.54	3064	1276356	22.16	ng/ml	100
15)	~~#Endosulfan Sulfate~~	28.39	3407	1278085	14.42	ng/ml	100
17)	~~#Methoxychlor~~	32.46	3895	3601949	92.78	ng/ml	100
18)	~~#Endrin ketone~~	32.69	3922	668235	7.42	ng/ml	100
20)	#alpha-Chlordane NP	21.44	2573	13079100	95.24	ng/ml	100
21)	~~#gamma-Chlordane~~ NP	20.83	2499	20436996	173.43	ng/ml	100
22)	~~#Toxaphene~~(1) NP	23.83	2860	8953054	5582.66	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.29	1475	110213	37.49	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	7.97	956	19639	23.16	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	12.29	1475	110213	38.47	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.29	1475	110213	42.25	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	16.02	1923	4962622	655.81	ng/ml	100
28)	#Aroclor-1254(1)	20.83	2499	20436996	4310.28	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	24.38	2925	18782012	2422.84	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	27.69	3322	5653678	71.68	ng/ml	100
31)	~~#Toxaphene~~(2) NP	27.69	3322	5644386	3067.35	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	28.39	3407	1278085	511.34	ng/ml	100
33)	~~#Toxaphene(4)~~ NP	30.59	3670	2023293	1049.52	ng/ml	100
34)	~~#Aroclor-1016(2)~~ NP	14.40	1728	3073832	470.22	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	16.02	1923	4962622	449.28	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.79	2015	871710	233.42	ng/ml	100
37)	~~#Aroclor-1016(5)~~ NP	19.00	2280	5526117	1626.45	ng/ml	100
38)	~~#Aroclor-1221(2)~~ NP	11.26	1351	216268	128.71	ng/ml	100
39)	~~#Aroclor-1221(3)~~ NP	12.29	1475	110213	28.88	ng/ml	100
40)	~~#Aroclor-1232(2)~~ NP	14.40	1728	3073832	1089.22	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	16.02	1923	4962622	1054.84	ng/ml	100
42)	~~#Aroclor-1232(4)~~ NP	16.79	2015	871710	506.30	ng/ml	100

7/19/96

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 14:57
Output File: ^03280::GQ Injected at: 960712 10:08
Data File: >03280::G4 Dilution Factor: 1.00000
Name: 238555 20XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj.

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
43)	#~~Aroclor-1242(2)~~ NP	14.40	1728	3073832	571.09	ng/ml	100
44)	#~~Aroclor-1242~~(3) NP	16.02	1923	4962622	556.76	ng/ml	100
45)	#~~Aroclor-1242~~(4) NP	16.79	2015	871710	275.60	ng/ml	100
46)	#~~Aroclor-1242(5)~~ NP	19.00	2280	5526117	1848.84	ng/ml	100
47)	#~~Aroclor-1248(2)~~ NP	17.53	2103	5870683	2250.74	ng/ml	100
48)	#~~Aroclor-1248(3)~~ NP	19.00	2280	5526117	1330.75	ng/ml	100
49)	#~~Aroclor-1248(4)~~ NP	20.45	2454	6915470	1427.33	ng/ml	100
50)	#~~Aroclor-1248(5)~~ NP	21.71	2605	4144839	751.79	ng/ml	100
51)	#Aroclor-1254(2)	21.12	2534	27042984	4879.76	ng/ml	100
52)	#Aroclor-1254(3)	22.68	2722	12937460	8023.73	ng/ml	100
53)	#Aroclor-1254(4)	23.48	2818	33312788M	5487.12	ng/ml	100
54)	#Aroclor-1254(5)	24.83	2979	23734272	6619.29	ng/ml	100
55)	#~~Aroclor-1260~~(2) NP	24.83	2979	22560696	3220.94	ng/ml	100
56)	#~~Aroclor-1260~~(3) NP	26.53	3183	16962576	3249.38	ng/ml	100
57)	#~~Aroclor-1260(4)~~ NP	30.12	3614	11980398	1108.82	ng/ml	100
58)	#~~Aroclor-1260(5)~~ NP	32.88	3945	7936812	1437.57	ng/ml	100

Compound uses ESTD

7/19/96

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 13:59
Output File: ^04280::SC Injected at: 960712 10:08
Data File: >04280::G1 Dilution Factor: 1.00000
Name: 236733 20XD Instrument ID: GC04
Misc: DB1701 30M X .53mm 2239903 1ul inj.

MD File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 13:07 Last Qual Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.30	1116	130025	3.14	ng/ml	100
2)	~~#alpha-BHC~~	13.28	1594	23897	.729	ng/ml	100
3)	~~#beta-BHC~~	18.53	2224	2542278	96.75	ng/ml	100
4)	~~#delta-BHC~~	19.66	2359	285060	11.70	ng/ml	100
6)	~~#Heptachlor~~	16.37	1965	115759	2.44	ng/ml	100
7)	~~#Aldrin~~	17.43	2092	4756079	126.29	ng/ml	100
8)	~~#Heptachlor epoxide~~	20.66	2479	26648	.610	ng/ml	100
9)	~~#Endosulfan I~~	21.70	2604	936851	26.24	ng/ml	100
10)	~~#Dieldrin~~	23.35	2802	2968063	91.40	ng/ml	100
11)	~~#4,4'-DDE~~	22.69	2723	4320003	155.62	ng/ml	100
12)	~~#Endrin~~	24.23	2907	15181258	523.70	ng/ml	100
13)	~~#Endosulfan II~~	26.78	3213	1396467	39.02	ng/ml	100
14)	~~#4,4'-DDD~~	26.57	3188	25436704	1203.77	ng/ml	100
15)	~~#Endosulfan Sulfate~~	30.50	3660	317758	12.01	ng/ml	100
16)	~~#4,4'-DDT~~	27.41	3289	274907	16.68	ng/ml	100
17)	~~#Methoxychlor~~	30.90	3708	228540	16.98	ng/ml	100
18)	~~#Endrin ketone~~	32.91	3949	257625	9.15	ng/ml	100
20)	~~#alpha-Chlordane~~	22.20	2664	6207179	148.84	ng/ml	100
21)	~~#gamma-Chlordane~~	21.95	2634	1057978	25.97	ng/ml	100
23)	~~#Aroclor-1016(1)~~ UP	12.07	1448	107995	87.44	ng/ml	100
24)	~~#Aroclor-1221(1)~~ UP	7.55	906	57476	72.68	ng/ml	100
25)	~~#Aroclor-1232(1)~~ UP	7.55	906	57476	48.27	ng/ml	100
26)	~~#Aroclor-1242(1)~~ UP	12.07	1448	107995	102.08	ng/ml	100
27)	~~#Aroclor-1248(1)~~ UP	13.83	1660	209785	190.46	ng/ml	100
28)	#Aroclor-1254(1)	17.43	2092	4756079	2993.81	ng/ml	100
29)	~~#Aroclor-1260(1)~~ UP	23.74	2849	10733144	4645.72	ng/ml	100
30)	~~#Endrin aldehyde~~ UT	28.90	3468	880472	28.98	ng/ml	100
31)	~~#Toxaphene(2)~~	28.39	3407	6475010	11758.76	ng/ml	100
32)	~~#Toxaphene(3)~~	30.50	3660	317758	644.71	ng/ml	100
33)	~~#Toxaphene(4)~~ UP	31.66	3799	553545	1103.13	ng/ml	100
34)	~~#Aroclor-1016(2)~~	13.83	1660	209785	85.81	ng/ml	100
35)	~~#Aroclor-1016(3)~~	15.96	1915	1333659	343.80	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.52	1982	173366	119.04	ng/ml	100
37)	~~#Aroclor-1016(5)~~	18.53	2224	2542278	1233.71	ng/ml	100
38)	~~#Aroclor-1221(2)~~	10.98	1318	18056	27.53	ng/ml	100
39)	~~#Aroclor-1221(3)~~ UP	12.07	1448	107995	62.96	ng/ml	100
40)	~~#Aroclor-1232(2)~~ UP	12.07	1448	107995	92.19	ng/ml	100
41)	~~#Aroclor-1232(3)~~ UP	13.83	1660	209785	203.73	ng/ml	100
42)	~~#Aroclor-1232(4)~~ UP	15.96	1915	1333659	853.73	ng/ml	100
43)	~~#Aroclor-1242(2)~~ UP	13.83	1660	209785	105.62	ng/ml	100

QUANT REPORT

Operator ID: TAFIZ
Quant Rev: 7
Quant Time: 960712 13:59
Output File: >04280::GQ
Injected at: 960712 10:08
Data File: >04280::G1
Dilution Factor: 1.00000
Name: 138555 10<DL
Instrument ID: GC04
Misc: DB1701 30M X .53mm GC58955 1ul inj.

ID File: IDCAP2::GC
Title: Capillary Column DB1701
Last Calibration: 941025 10:07
Last Cal Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
44)	~~#Aroclor-1242(3)~~	15.96	1915	1333659	432.56	ng/ml	100
45)	~~#Aroclor-1242(4)~~ NP	16.52	1982	173366	151.68	ng/ml	100
46)	~~#Aroclor-1242(5)~~	17.43	2092	4756079	6010.92	ng/ml	100
47)	~~#Aroclor-1248(2)~~	15.96	1915	1333659	510.53	ng/ml	100
48)	~~#Aroclor-1248(3)~~	18.53	2224	2542278	1031.90	ng/ml	100
49)	~~#Aroclor-1248(4)~~ NP	18.96	2275	1186497	672.10	ng/ml	100
50)	~~#Aroclor-1248(5)~~	20.28	2433	11321874	11796.07	ng/ml	100
51)	#Aroclor-1254(2)	20.28	2433	11321874	5568.61	ng/ml	100
52)	#Aroclor-1254(3)	21.09	2531	11245676	6131.74	ng/ml	100
53)	#Aroclor-1254(4)	23.05	2766	20594304	8077.15	ng/ml	100
54)	#Aroclor-1254(5)	23.74	2849	10733144	7913.78	ng/ml	100
55)	~~#Aroclor-1260(2)~~	24.85	2982	9950614	3664.90	ng/ml	100
56)	~~#Aroclor-1260(3)~~	28.39	3407	9284802	4667.92	ng/ml	100
57)	~~#Aroclor-1260(4)~~ NP	29.99	3598	5322116	1353.68	ng/ml	100
58)	~~#Aroclor-1260(5)~~	31.98	3837	4749290	1912.38	ng/ml	100

Compound uses ESTD

EPrui
7/14/13/96
4

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S9	DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Matrix: (soil/water) SOIL Lab Sample ID: 238555

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 03250

% Moisture: 14. decanted: (Y/N) N Date Received: 06/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/03/96

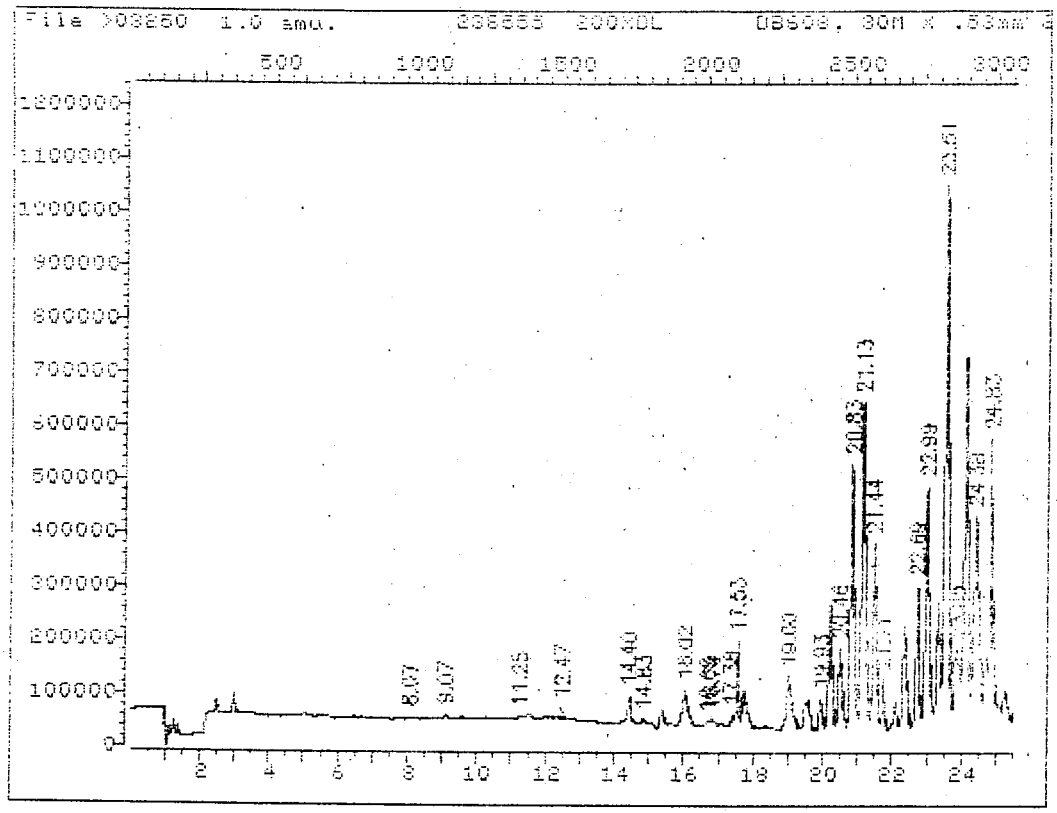
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/10/96

Injection Volume: 1.0 (uL) Dilution Factor: 200.0

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

Do not use these data.

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	390.	U
319-85-7	beta-BHC	390.	U
319-86-8	delta-BHC	390.	U
58-89-9	gamma-BHC (Lindane)	390.	U
76-44-8	Heptachlor	390.	U
309-00-2	Aldrin	390.	U
1024-57-3	Heptachlor epoxide	390.	U
959-98-8	Endosulfan I	390.	U
60-57-1	Dieldrin	760.	U
72-55-9	4,4'-DDE	760.	U
72-20-8	Endrin	760.	U
33213-65-9	Endosulfan II	760.	U
72-54-8	4,4'-DDD	760.	U
1031-07-8	Endosulfan Sulfate	760.	U
50-29-3	4,4'-DDT	760.	U
72-43-5	Methoxychlor	3900.	U
53494-70-5	Endrin ketone	760.	U
7421-93-4	Endrin aldehyde	760.	U
5103-71-9	alpha-Chlordane	390.	U
5103-74-2	gamma-Chlordane	390.	U
8001-35-2	Toxaphene	39000.	U
12674-11-2	Aroclor-1016	7600.	U
11104-28-2	Aroclor-1221	16000.	U
11141-16-5	Aroclor-1232	7600.	U
53469-21-9	Aroclor-1242	7600.	U
12672-29-6	Aroclor-1248	7600.	U
11097-69-1	Aroclor-1254	73000.	D
11096-82-5	Aroclor-1260	7600.	U

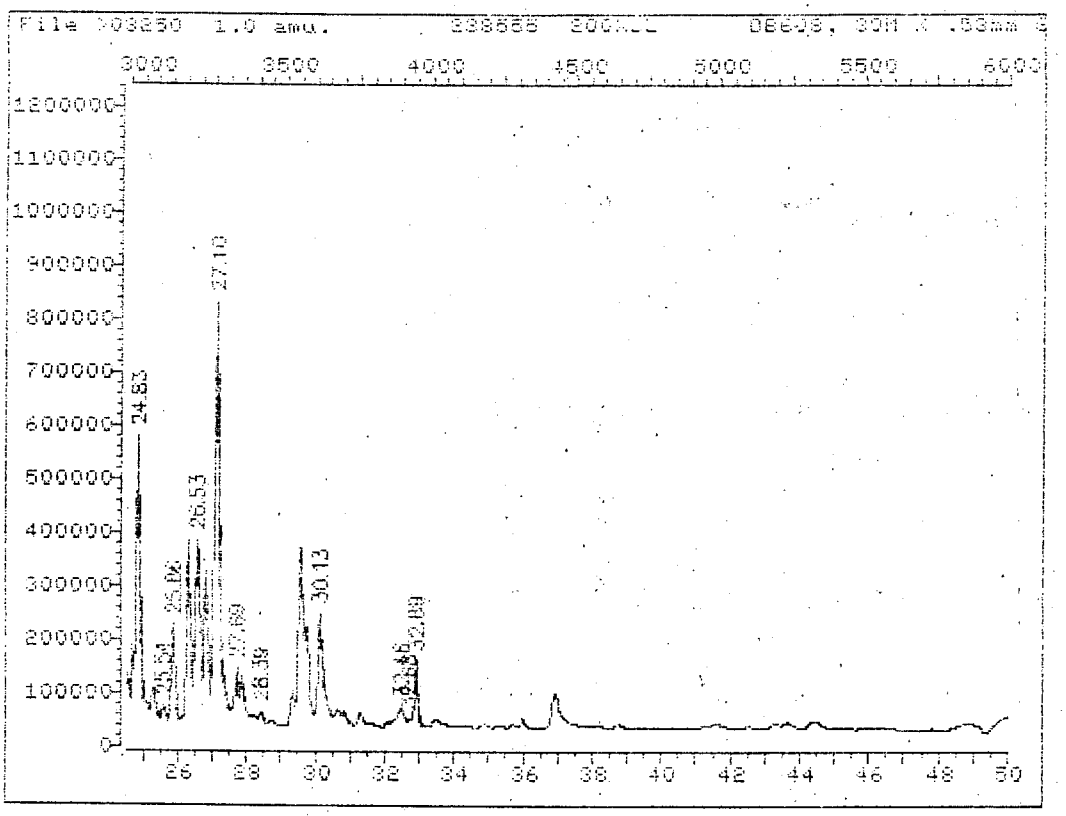


Data File: >03250::F3 Quant Output File: ^03250::GQ
Name: 238555 200XDL Instrument ID: GC03
Misc: DB608, 30M X .53mm GC98903 1ul inj.

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Operator ID: TRFIZ
Quant Time : 960712 13:12
Injected at: 960710 23:15

Page 1 of 2

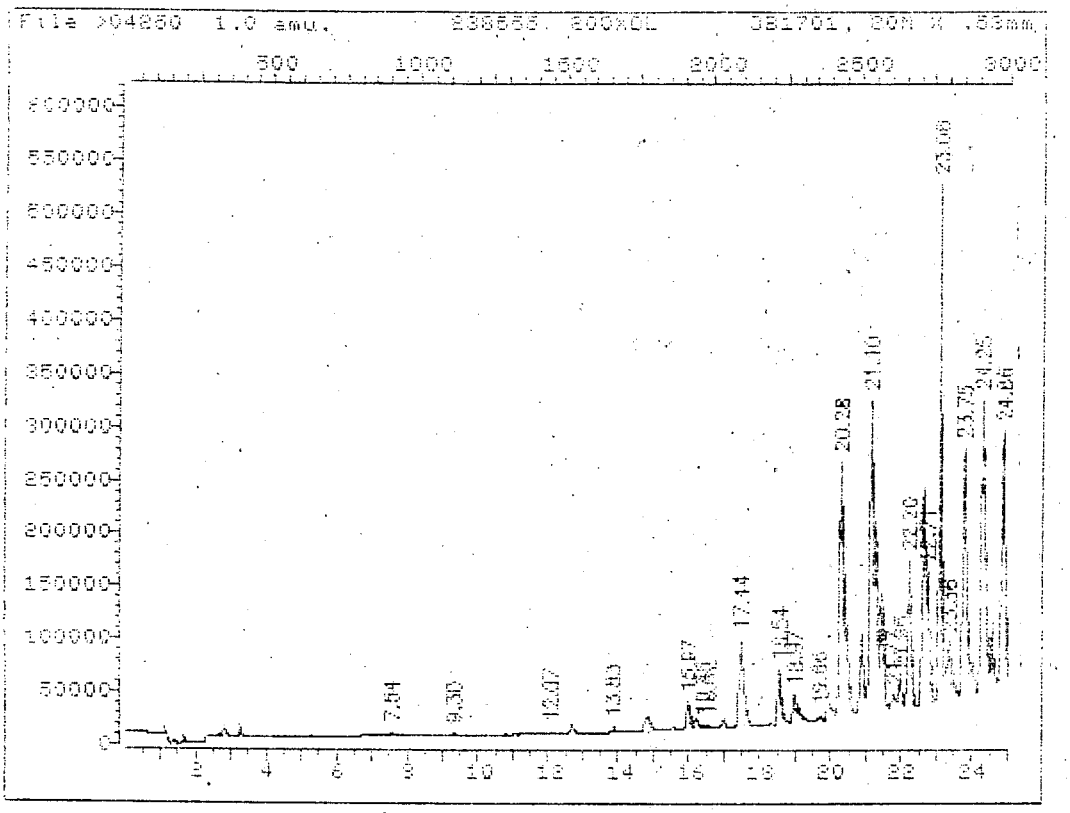


Data File: >03250::F3 Quant Output File: ^03250::GQ
Name: 238555 200XDL Instrument ID: GC03
Misc: D8608. 30M X .53mm GC58903 1ul inj.

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Operator ID: TRFI2
Quant Time : 960712 13:12
Injected at: 960710 23:15

Page 2 of 2

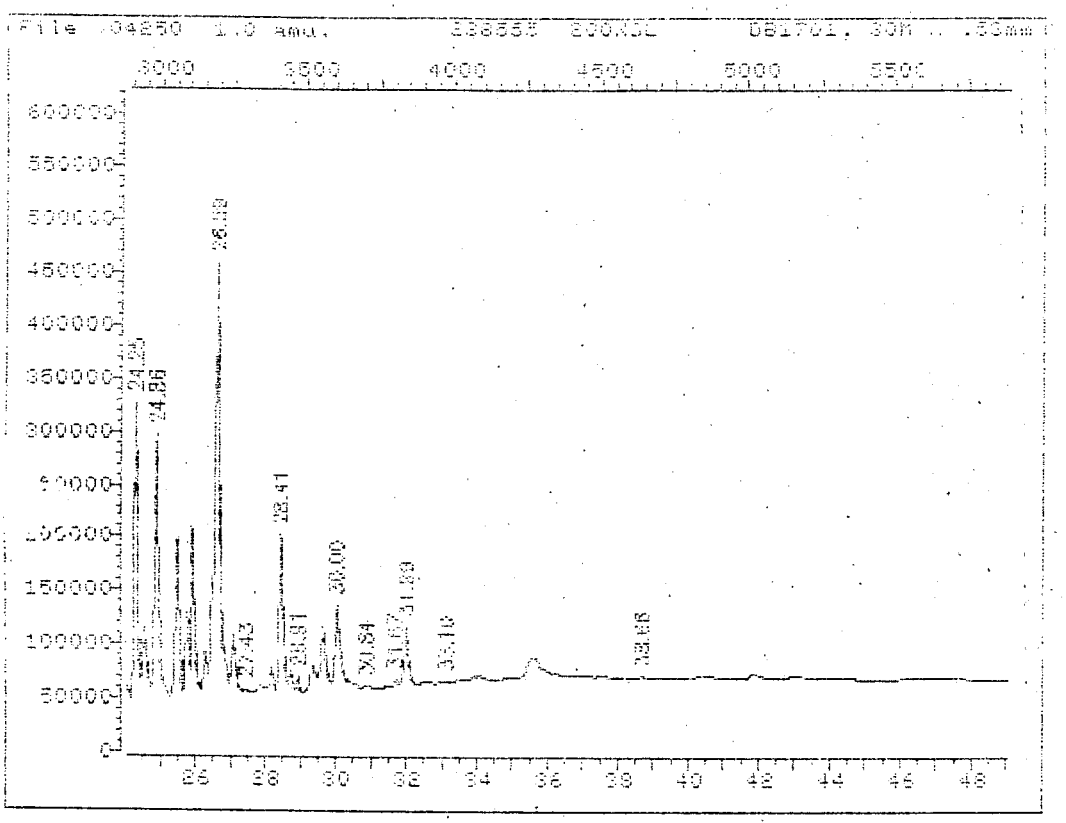


Data File: >04250::G1 Quant Output File: ^04250::GQ
Name: 238555 200XDL Instrument ID: GC04
Misc: DB1701, 30M X .53mm SC58903 1ul inj.

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

Operator ID: TBFII
Quant Time : 960712 15:27
Injected at: 960710 23:15

Page 1 of 2



Data File: >04250::G1 Quant Output File: ^04250::GQ
Name: 238555 200XDL Instrument ID: GC04
Misc: DB1701, 30M X .53mm GC58903 1ul inj.

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941022 10:07 Last Goal Time: 960701 21:23

Operator ID: TRFI2
Quant Time : 960712 13:27
Injected at: 960710 23:15

Page 2 of 2

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 13:12
Output File: ^05250::GC Injected at: 960710 23:15
Data File: >C3250::F3 Dilution Factor: 1.00000
Name: 238555 200/DL Instrument ID: GC03
Misc: DB608, 30M X .53mm 5038905 1ul inj.

S9 DL

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Cal Time: 960702 00:13

	Compound	R.T	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.07	1099	28256	.226	ng/ml	100
2)	~~#alpha-BHC~~	12.47	1496	112836	.762	ng/ml	100
3)	~~#beta-BHC~~	14.83	1780	301400	3.67	ng/ml	100
4)	~~#delta-BHC~~	16.68	2002	47126	.390	ng/ml	100
5)	~~#gamma-BHC (Lindane)~~	14.40	1733	599729	2.93	ng/ml	100
6)	~~#Heptachlor~~	16.02	1923	729802	9.35	ng/ml	100
7)	~~#Aldrin~~	17.59	2095	95007	.705	ng/ml	100
8)	~~#Heptachlor epoxide~~	19.95	2392	325049	2.96	ng/ml	100
9)	~~#Endosulfan I~~	21.71	2605	624672	5.13	ng/ml	100
10)	~~#Dieldrin~~	22.99	2759	2874911	30.41	ng/ml	100
11)	~~#4,4'-DDE~~	22.69	2723	1976585	21.61	ng/ml	100
12)	~~#Endrin~~	24.83	2979	3456299	40.38	ng/ml	100
13)	~~#Endosulfan II~~	25.86	3103	1269581	13.18	ng/ml	100
14)	~~#4,4'-DDD~~	25.54	3064	196041	3.40	ng/ml	100
15)	~~#Endosulfan Sulfate~~	25.59	3407	175713	1.98	ng/ml	100
16)	~~#4,4'-DDT~~	27.10	3252	6002692	92.61	ng/ml	100
17)	~~#Methoxychlor~~	32.46	3895	599984	10.30	ng/ml	100
18)	~~#Endrin ketone~~	32.68	3921	74148	.824	ng/ml	100
20)	~~#alpha-Chlordane~~	21.44	2573	2083365	15.17	ng/ml	100
21)	~~#gamma-Chlordane~~	20.85	2499	3298567	27.99	ng/ml	100
22)	~~#Toxaphene(1)~~ NP	23.85	2862	1199982	748.25	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.47	1496	112836	38.38	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	8.07	968	20676	24.36	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	12.47	1496	112836	39.39	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.47	1496	112836	43.26	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	16.02	1923	732587	96.81	ng/ml	100
28)	#Aroclor-1254(1)	20.83	2499	5298867	695.75	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	24.38	2925	2939995	379.25	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	27.69	3322	649974	8.24	ng/ml	100
31)	~~#Toxaphene(2)~~ NP	27.69	3322	6590115	358.13	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	28.39	3407	175713	70.30	ng/ml	100
34)	~~#Aroclor-1016(2)~~	14.40	1728	5939999	60.27	ng/ml	100
35)	~~#Aroclor-1016(3)~~	16.02	1923	732587	66.32	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.79	2015	1230338	32.95	ng/ml	100
37)	~~#Aroclor-1016(5)~~	19.00	2280	3135922	239.55	ng/ml	100
38)	~~#Aroclor-1221(2)~~	11.25	1350	29812	17.74	ng/ml	100
39)	~~#Aroclor-1221(3)~~ NP	12.47	1496	112836	29.57	ng/ml	100
40)	~~#Aroclor-1232(2)~~	14.40	1728	5939999	139.61	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	16.02	1923	732587	155.72	ng/ml	100
42)	~~#Aroclor-1232(4)~~	16.79	2015	1230338	71.46	ng/ml	100

NT

EPrui
2/13/96

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 13:12
Output File: 105250::SC Injected at: 960710 23:15
Data File: 105250::F3 Dilution Factor: 1.00000
Name: 238555 200XOL Instrument ID: GC03
Misc: DB608. 30M X .53mm 1058903 1ul inj.

CD File: IDCAPi::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Cal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
43)	~~#Aroclor-1242(2)~~	14.40	1728	593305	73.07	ng/ml	100
44)	~~#Aroclor-1242(3)~~	16.02	1923	732587	82.19	ng/ml	100
45)	~~#Aroclor-1242(4)~~ NP	16.79	2015	123038	38.90	ng/ml	100
46)	~~#Aroclor-1242(5)~~	19.00	2280	813911	272.31	ng/ml	100
47)	~~#Aroclor-1248(2)~~	17.53	2103	977167	374.63	ng/ml	100
48)	~~#Aroclor-1248(3)~~	19.00	2280	813911	196.00	ng/ml	100
	~~#Aroclor-1248(4)~~ NP	20.46	2455	989976	204.33	ng/ml	100
	~~#Aroclor-1248(5)~~	21.71	2605	624672	113.30	ng/ml	100
51)	#Aroclor-1254(2)	21.13	2535	4476589	807.78	ng/ml	100
52)	#Aroclor-1254(3)	22.69	2723	1976565	1225.87	ng/ml	100
53)	#Aroclor-1254(4)	23.51	2821	6542145	1077.59	ng/ml	100
54)	#Aroclor-1254(5)	24.83	2979	3456290	963.93	ng/ml	100
55)	~~#Aroclor-1260(2)~~	24.83	2979	3456290	493.45	ng/ml	100
56)	~~#Aroclor-1260(3)~~	26.53	3183	2541821	486.92	ng/ml	100
57)	~~#Aroclor-1260(4)~~ NP	30.13	3615	1562686	144.63	ng/ml	100
58)	~~#Aroclor-1260(5)~~	32.89	3946	1064611	192.53	ng/ml	100

Compound uses ESTD

E Pui
7/13/96

QUA REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 13:27
Output File: 104250::SC Injected at: 960713 23:15
Data File: 104250::S1 Dilution Factor: 1.00000
Name: 238553 200X2L Instrument ID: GC04
Misc: DB1701, 30M X .53mm GC58903 1ul inj.

ID File: 1DCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Cal Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.30	1116	16107	.389	ng/ml	100
3)	~~#Beta BHC~~	18.54	2225	351825	13.39	ng/ml	100
4)	~~#Delta BHC~~	19.66	2359	36467	1.50	ng/ml	100
6)	~~#Heptachlor~~	16.38	1966	15382	.324	ng/ml	100
7)	~~#Aldrin~~	17.44	2093	265063	20.26	ng/ml	100
9)	~~#Endosulfan I~~	21.77	2612	93973	2.63	ng/ml	100
10)	~~#Dieldrin~~	23.36	2803	235464	7.25	ng/ml	100
11)	~~#4,4'-DDE~~	22.71	2725	663252	23.89	ng/ml	100
12)	~~#Endrin~~	24.25	2910	2101980	72.51	ng/ml	100
13)	~~#Endosulfan II~~	26.59	3190	3285850	91.75	ng/ml	100
14)	~~#4,4'-DDD~~	26.59	3190	5263498	154.44	ng/ml	100
16)	~~#4,4'-DDT~~	27.43	3291	16406	.996	ng/ml	100
17)	~~#Methoxychlor~~	30.84	3701	15811	1.17	ng/ml	100
18)	~~#Endrin ketone~~	33.10	3972	7129	.253	ng/ml	100
19)	#Decachlorobiphenyl	38.66	4639	18275	.391	ng/ml	100
20)	~~#alpha Chlordane~~ NT	22.20	2664	872721	20.95	ng/ml	100
21)	~~#gamma Chlordane~~ NT	21.96	2635	129088	3.21	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.07	1448	10340	8.37	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	7.54	905	17269	21.84	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	7.54	905	17269	14.50	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.07	1448	10340	9.77	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	13.83	1660	26195	23.78	ng/ml	100
28)	#Aroclor-1254(1)	17.44	2093	752177	473.47	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	23.75	2850	1646544	712.69	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	28.91	3469	109168	3.59	ng/ml	100
31)	~~#Toxaphene(2)~~	28.41	3409	1059239	1469.65	ng/ml	100
33)	~~#Toxaphene(4)~~ NP	31.67	3800	56405	112.41	ng/ml	100
34)	~~#Aroclor-1016(2)~~	13.83	1660	26195	10.71	ng/ml	100
35)	~~#Aroclor-1016(3)~~	15.97	1916	160646	41.41	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.52	1983	18900	12.98	ng/ml	100
37)	~~#Aroclor-1016(5)~~	18.54	2225	351825	170.73	ng/ml	100
39)	~~#Aroclor-1221(2)~~ NP	12.07	1448	10340	6.03	ng/ml	100
40)	~~#Aroclor-1232(2)~~	12.07	1448	10340	8.83	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	13.83	1660	26195	25.44	ng/ml	100
42)	~~#Aroclor-1232(4)~~	15.97	1916	160646	102.84	ng/ml	100
43)	~~#Aroclor-1242(2)~~	13.83	1660	26195	13.19	ng/ml	100
44)	~~#Aroclor-1242(3)~~ NP	15.97	1916	160646	52.10	ng/ml	100
45)	~~#Aroclor-1242(4)~~	16.52	1983	18900	16.54	ng/ml	100
46)	~~#Aroclor-1242(5)~~	17.44	2093	752177	950.63	ng/ml	100
47)	~~#Aroclor-1260(2)~~ NP	15.97	1916	160646	61.50	ng/ml	100

E Pui
7/13/96

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 13:27
Output File: 304250:#60 Injected at: 960710 23:15
Data File: 304250:#61 Dilution Factor: 1.00000
Name: 238555 100XDL Instrument ID: GC04
Misc: 081761, 30M X .53mm SC58905 1L1 inj.

CD File: CDCAP2:#9C
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Ccal Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
48)	#~~Aroclor-1248(3)~~	18.54	2225	351823	142.60	ng/ml	100
49)	#~~Aroclor-1248(4)~~ NP	18.97	2276	154876	87.73	ng/ml	100
50)	#~~Aroclor-1248(5)~~	20.28	2433	1683262	1753.78	ng/ml	100
51)	#Aroclor-1254(2)	20.28	2433	1683262	927.91	ng/ml	100
52)	#Aroclor-1254(3)	21.10	2532	1812437	998.24	ng/ml	100
53)	#Aroclor-1254(4)	23.06	2767	3174377	1245.00	ng/ml	100
54)	#Aroclor-1254(5)	23.75	2850	1646544	1214.03	ng/ml	100
55)	#~~Aroclor-1260(2)~~	24.86	2983	1783549	656.90	ng/ml	100
56)	#~~Aroclor-1260(3)~~ NP	28.41	3409	1059239	596.81	ng/ml	100
57)	#~~Aroclor-1260(4)~~	30.00	3600	635979	161.76	ng/ml	100
58)	#~~Aroclor-1260(5)~~	31.99	3838	540252	217.54	ng/ml	100

Compound uses ESTD

E Pici
7/13/96

QUANT REPORT

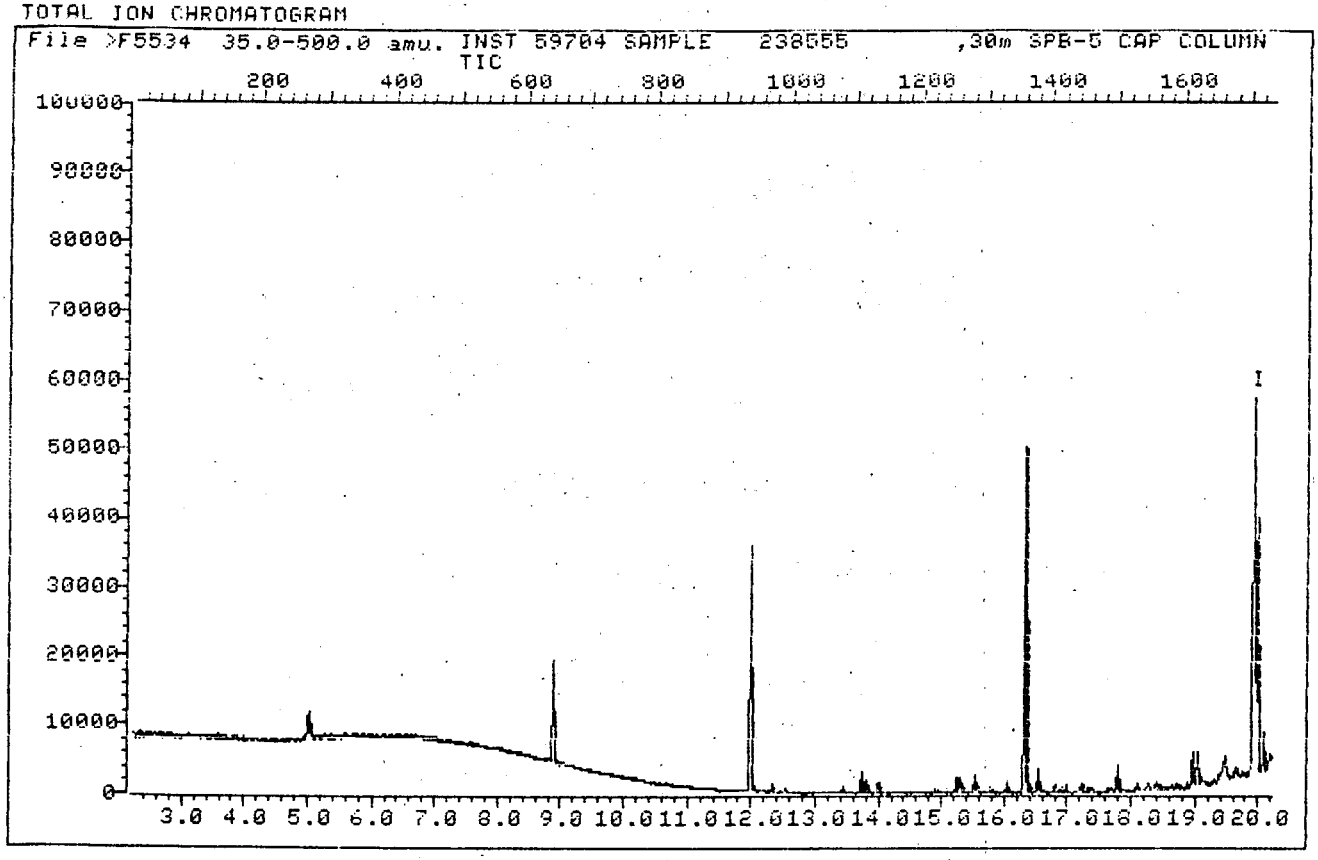
Operator ID: GT0101 Quant Rev: 7 Quant Time: 960709 19:50
Output File: ^F5534::QT Injected at: 960709 19:11
Data File: >F5534::F1 Dilution Factor: 1.00000
Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 238555 ,30m SPB-5 CAP COLUMN BTL#12

ID File: IDPEST::SC
Title: CLP PESTICIDE CONFIRMATION FILE
Last Calibration: : Last Qcal Time: 960705 12:13

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Phenanthrene-d10	19.91	188.0	40583	40.00	UG/ML	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >F5534::F1 Quant Output File: ^F5534::QT
Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 238555 ,30m SPB-5 CAP COLUMN BTL#12

Id File: IDPEST::SC
Title: CLP PESTICIDE CONFIRMATION FILE
Last Calibration: : Last Qcal Time: 960705 12:13

Operator ID: GT0101
Quant Time : 960709 19:50
Injected at: 960709 19:11

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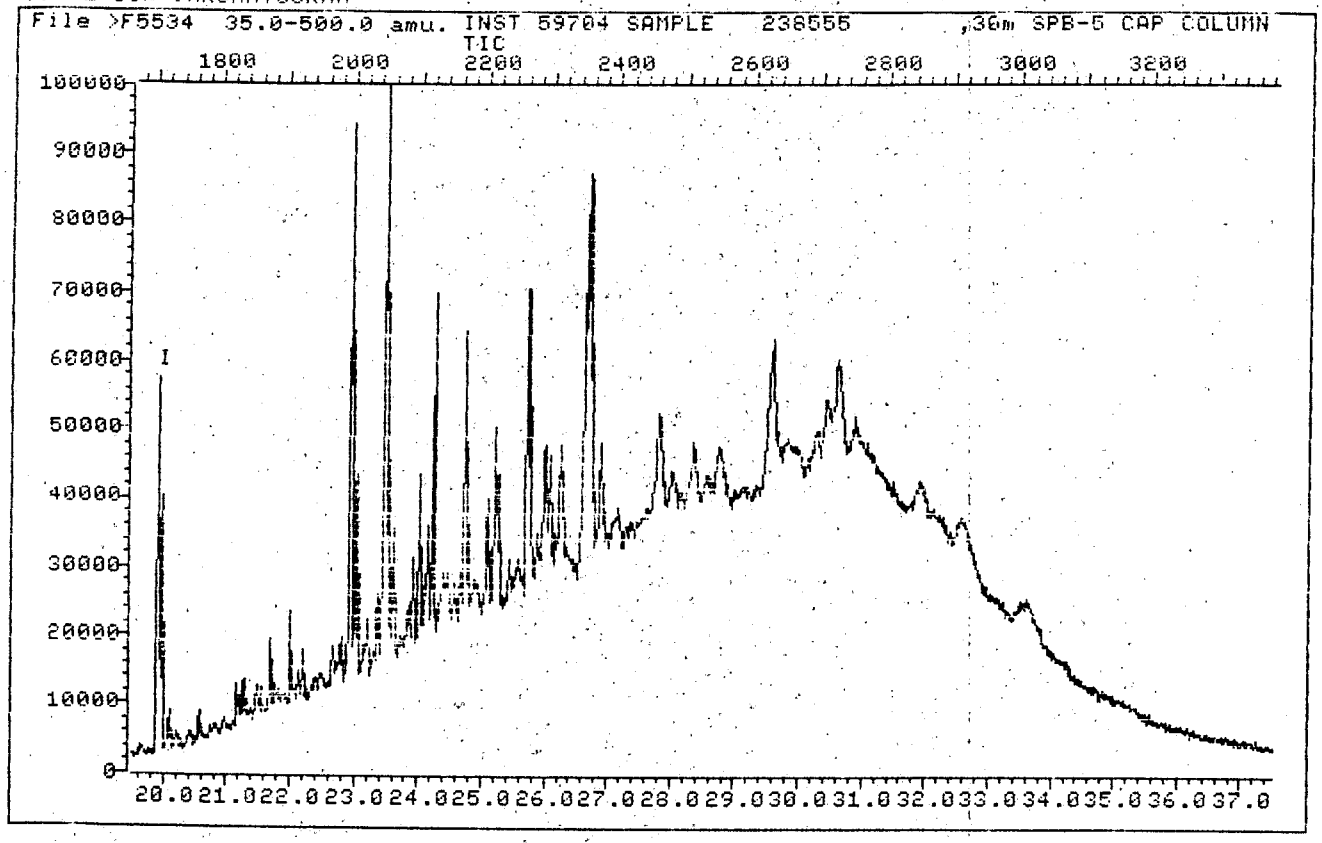
TOTAL ION CHROMATOGRAM



Data File: >F5534::F1 Quant Output File: ^F5534::QT
Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 238555 ,30m SPB-5 CAP COLUMN BTL#12

Id File: IDPEST::SC
Title: CLP PESTICIDE CONFIRMATION FILE
Last Calibration: : Last Qcal Time: 960705 12:13

Operator ID: GT0101
Quant Time : 960709 19:50
Injected at: 960709 19:11

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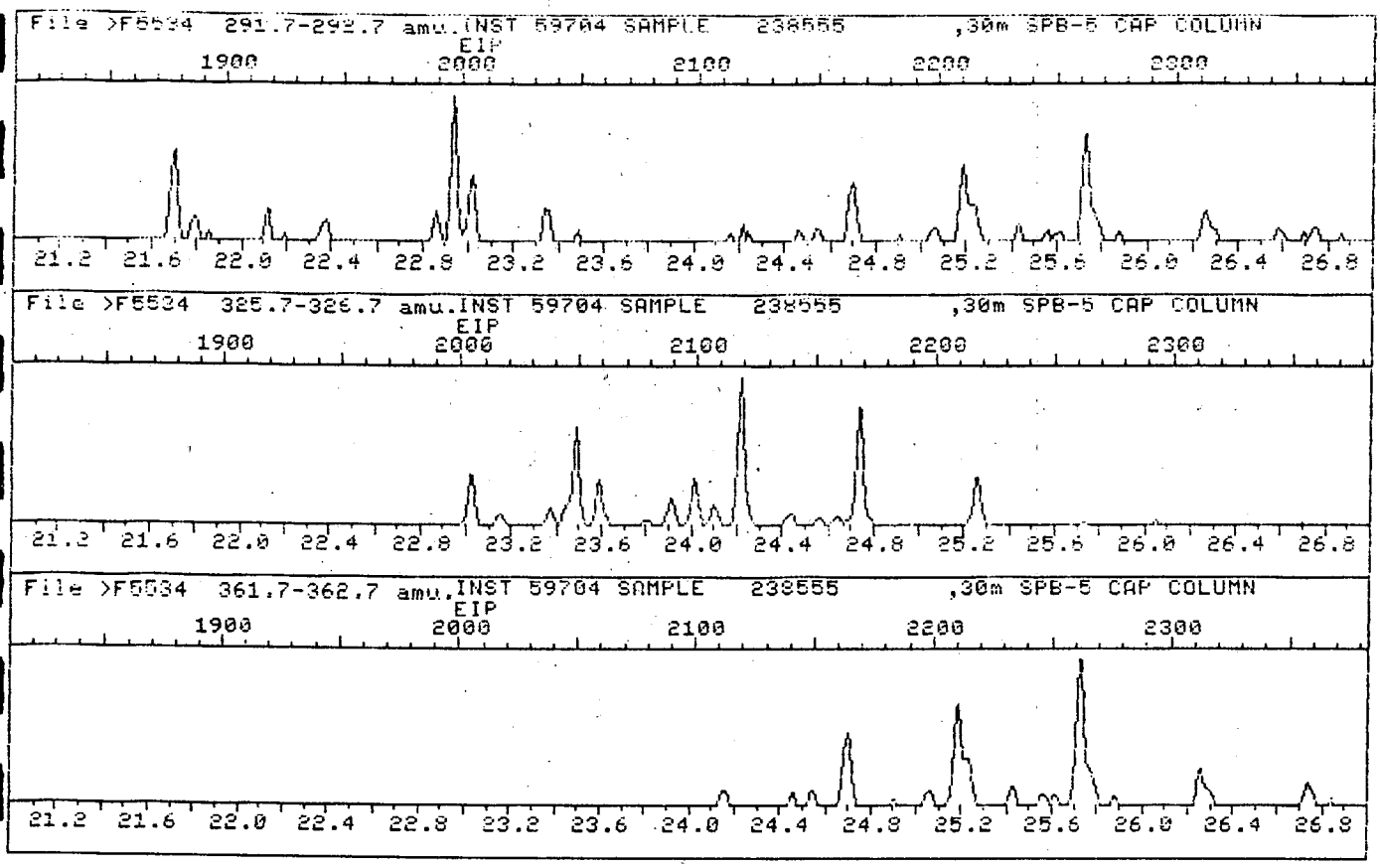


MS data file header from : >F5534::F1

Sample: INST 59704 SAMPLE Operator: GT0101 SUPER GRP. 7/09/96 19:11
Misc : 238555 ,30m SPB-5 CAP COLUMN BTL#12
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 12 Equip ID: INST F
Method file: BNP4 Tuning file: MTA004 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	40.	280.	300.	0.	0.
Chromatographic times, min. :	4.0	1.0	20.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	10.0	0.0	0.0	0.0

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S10

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Matrix: (soil/water) SOIL Lab Sample ID: 238557

Sample wt/vol: 30.4 (g/mL) G Lab File ID: 03429

% Moisture: 57. decanted: (Y/N) N Date Received: 06/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/03/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/22/96

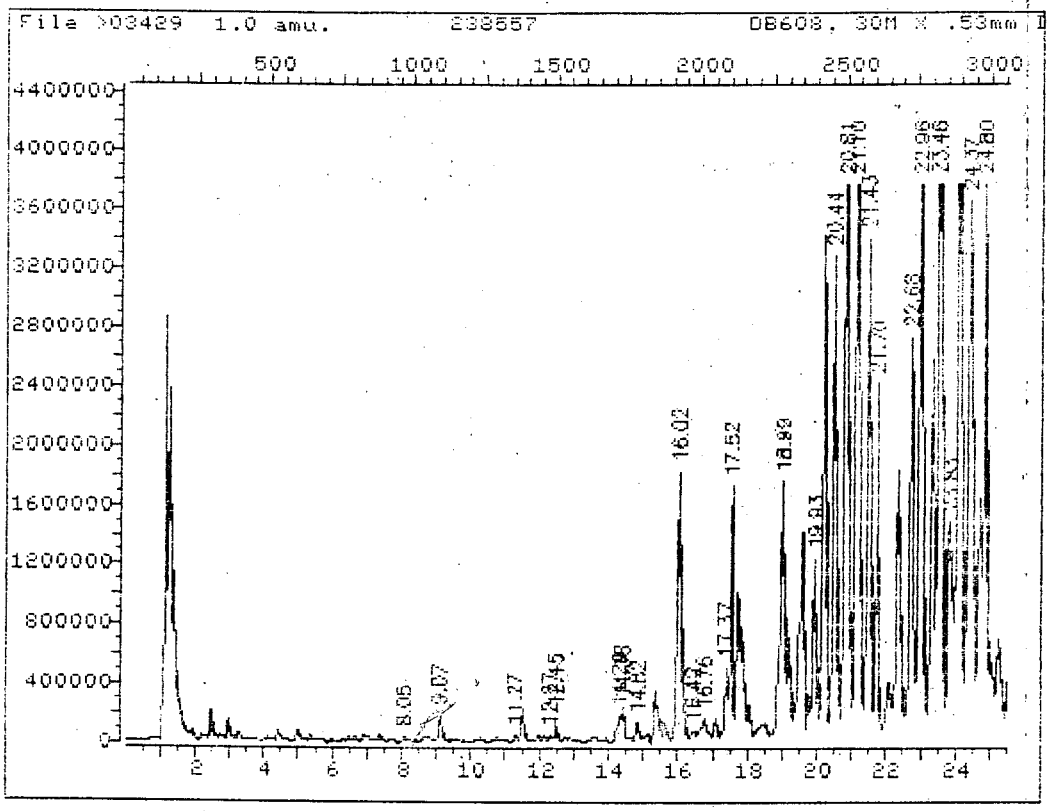
Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Use these data

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	3.9	U
319-85-7	beta-BHC	3.9	U
319-86-8	delta-BHC	3.9	U
58-89-9	gamma-BHC (Lindane)	3.9	U
76-44-8	Heptachlor	3.9	U
309-00-2	Aldrin	3.9	U
1024-57-3	Heptachlor epoxide	3.9	U
959-98-8	Endosulfan I	3.9	U
60-57-1	Dieldrin	7.6	U
72-55-9	4,4'-DDE	7.6	U
72-20-8	Endrin	7.6	U
33213-65-9	Endosulfan II	7.6	U
72-54-8	4,4'-DDD	7.6	U
1031-07-8	Endosulfan Sulfate	7.6	U
50-29-3	4,4'-DDT	7.6	U
72-43-5	Methoxychlor	39.	U
53494-70-5	Endrin ketone	7.6	U
7421-93-4	Endrin aldehyde	7.6	U
5103-71-9	alpha-Chlordane	3.9	U
5103-74-2	gamma-Chlordane	3.9	U
8001-35-2	Toxaphene	390.	U
12674-11-2	Aroclor-1016	76.	U J
11104-28-2	Aroclor-1221	150.	U J
11141-16-5	Aroclor-1232	76.	U J
53469-21-9	Aroclor-1242	76.	U J
12672-29-6	Aroclor-1248	76.	U J
11097-69-1	Aroclor-1254	11000 ~~5400.~~	~~6 P J~~ J D*
11096-82-5	Aroclor-1260	76.	U J

D* Value transferred from diluted analysis S10 DL 10 x D/F



Data File: >03429::G2 Quant Output File: ^03429::GQ
Name: 238557 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP5::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

Operator ID: TRFI2
Quant Time : 960722 13:33
Injected at: 960722 12:36

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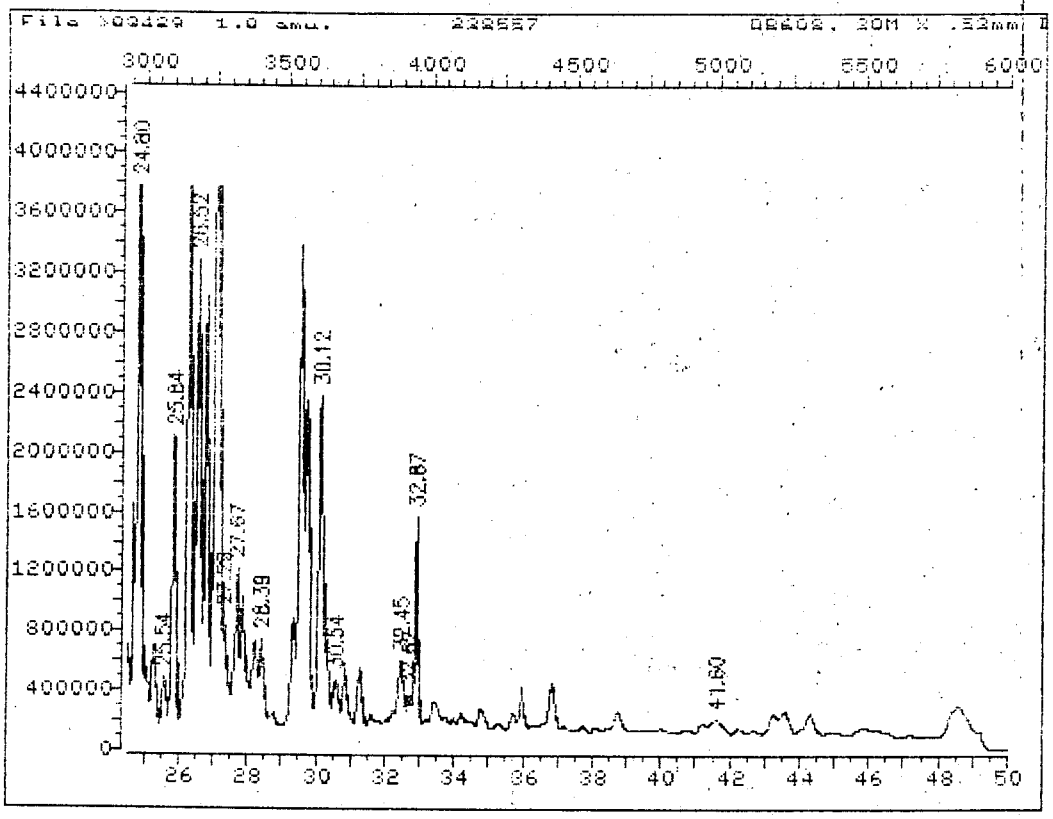

Data File: >03429::G2 Quant Output File: ^03429::GQ
Name: 238557 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP5::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

Operator ID: TRFI2
Quant Time : 960722 13:33
Injected at: 960722 12:36

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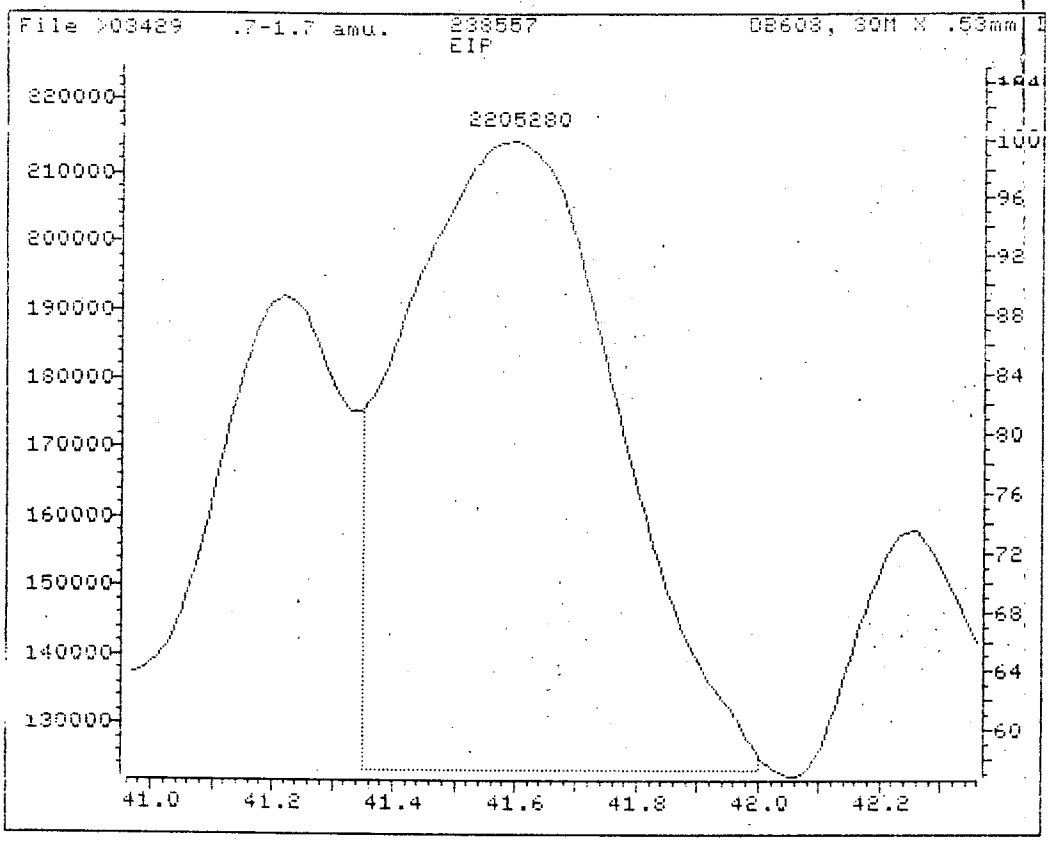
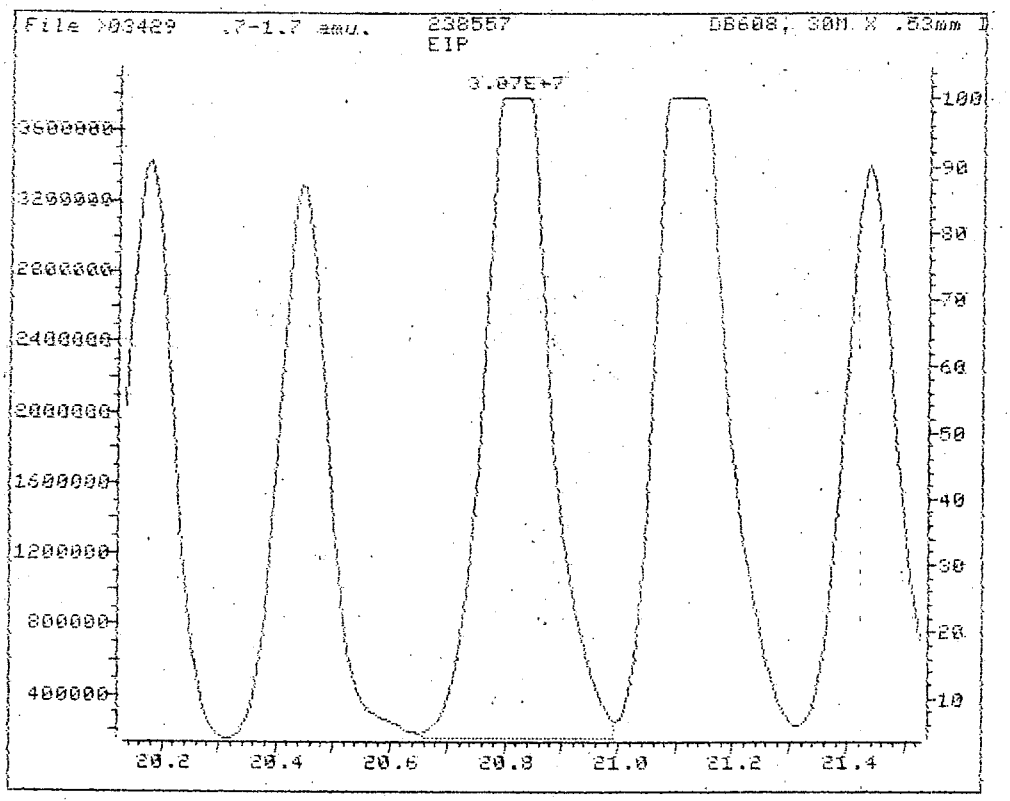


Data File: >03429::G2 Quant Output File: ^03429::GQ
Name: 238557 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ
Quant Time: 960722 13:33 Quant ID File: IDCAP5::SC
Injected at: 960722 12:36 Last Calibration: 941029 10:07

Compound No: 19
Compound Name: Decachlorobiphenyl
Scan Number: 4992
Retention Time: 41.60 min.
Quant Ion: 1.0
Area: 2205289M
Concentration: 19.07 ng/ml

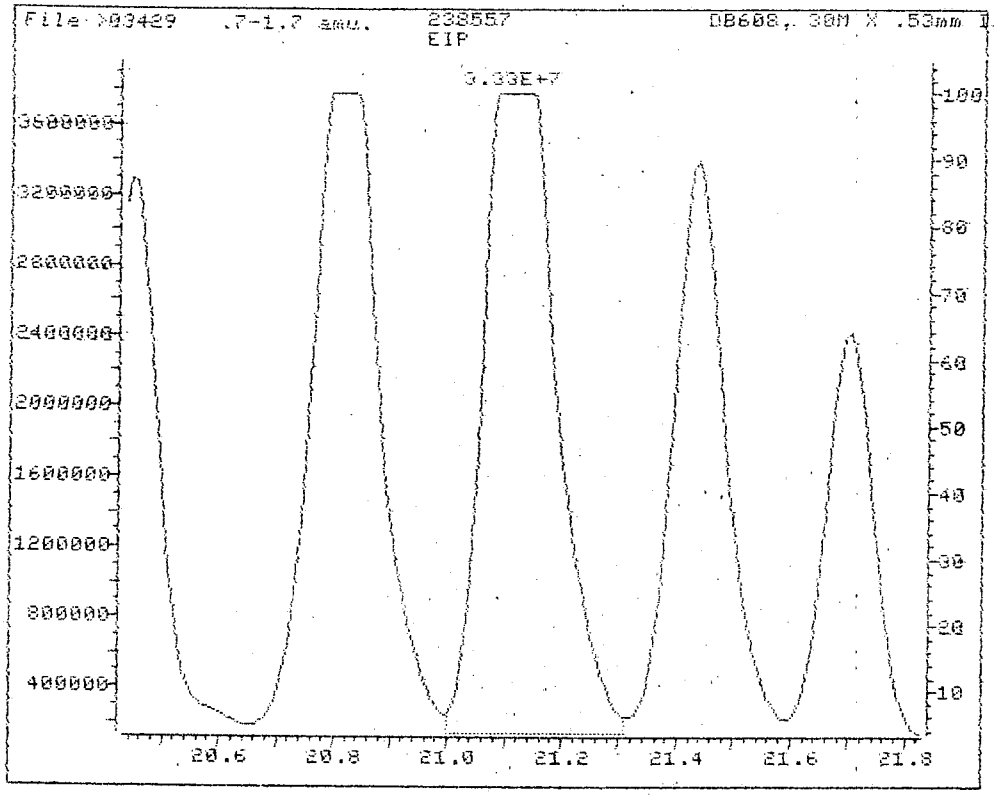
This report was produced by QAREA on: 960723 14:56



Data File: >03429::62 Quant Output File: ^03429::6Q
Name: 238557 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ
Quant Time: 960722 13:33 Quant ID File: IDCAP5::SC
Injected at: 960722 12:36 Last Calibration: 941029 10:07

Compound No: 28
Compound Name: Aroclor-1254(1)
Scan Number: 2497
Retention Time: 20.81 min.
Quant Ion: 1.0
Area: 30665272M
Concentration: 6163.96 ng/ml

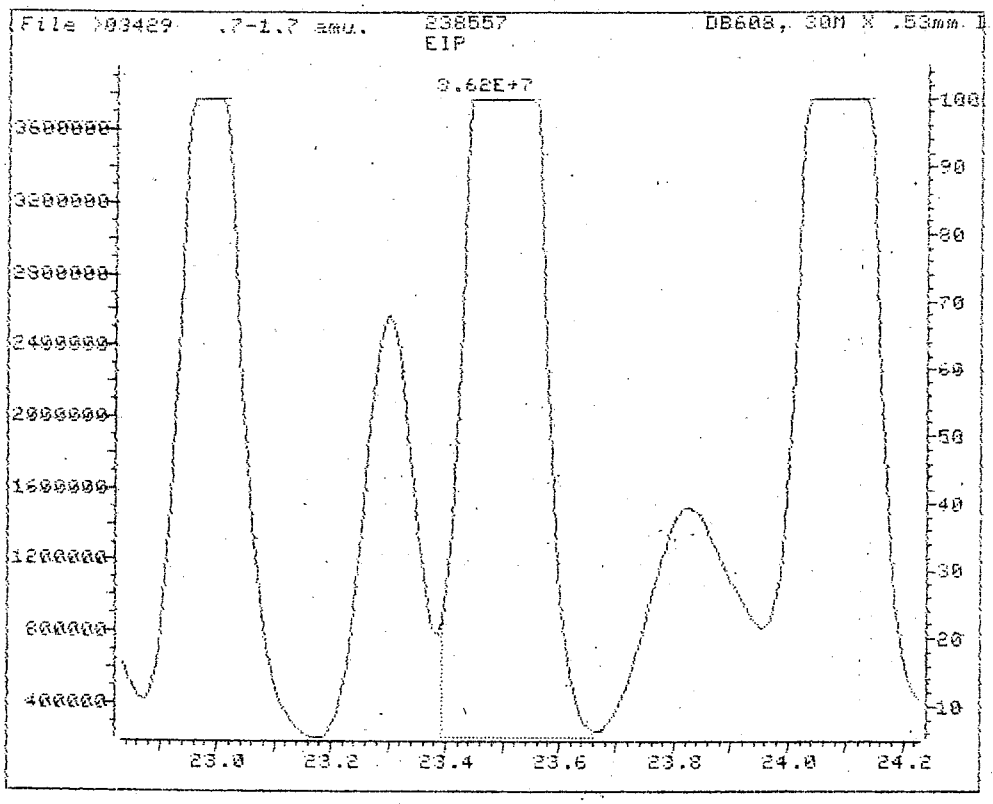
This report was produced by QAREA on: 960723 07:35



Data File: >03429::62 Quant Output File: ^03429::6Q
Name: 238557 Instrument ID: 6C03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ
Quant Time: 960722 13:33 Quant ID File: IDCAP5::SC
Injected at: 960722 12:36 Last Calibration: 941029 10:07

Compound No: 51
Compound Name: Aroclor-1254(2)
Scan Number: 2532
Retention Time: 21.10 min.
Quant Ion: 1.0
Area: 33267156M
Concentration: 5669.72 ng/ml
q-value: 100

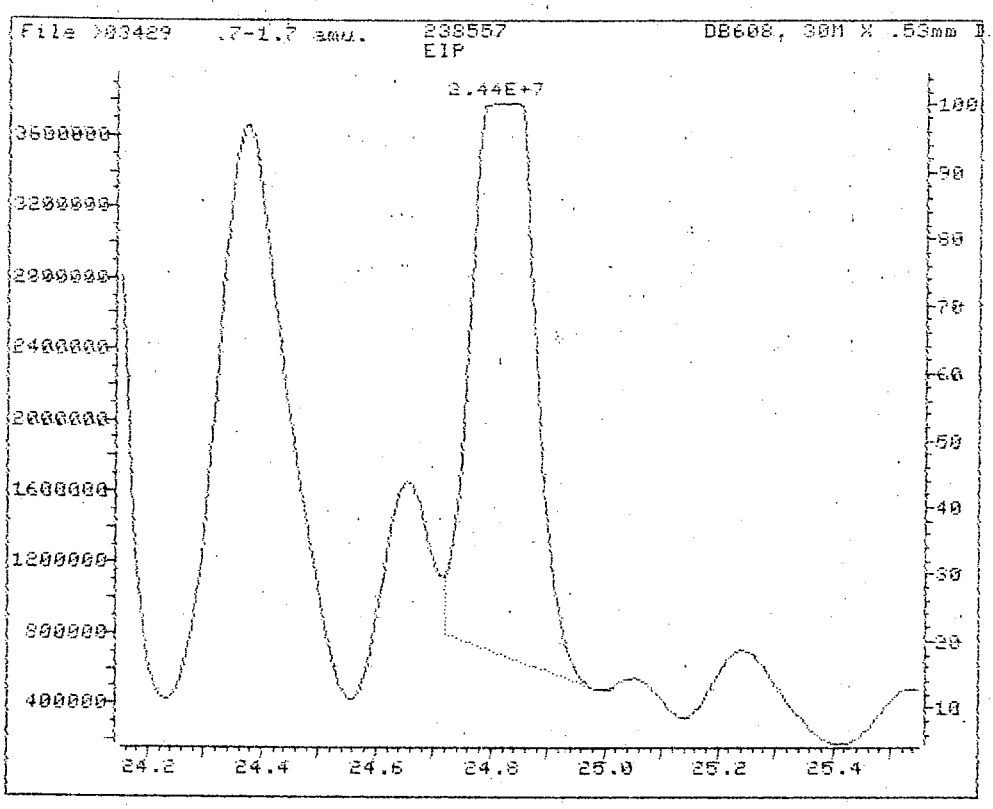
This report was produced by QAREA on: 960723 07:39



Data File: >03429::G2 Quant Output File: ^03429::GQ
Name: 238557 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ
Quant Time: 960722 13:33 Quant ID File: IDCAP5::SC
Injected at: 960722 12:36 Last Calibration: 941029 10:07

Compound No: 53
Compound Name: Aroclor-1254(4)
Scan Number: 2815
Retention Time: 23.46 min.
Quant Ion: 1.0
Area: 36227176M
Concentration: 5605.41 ng/ml
q-value: 100

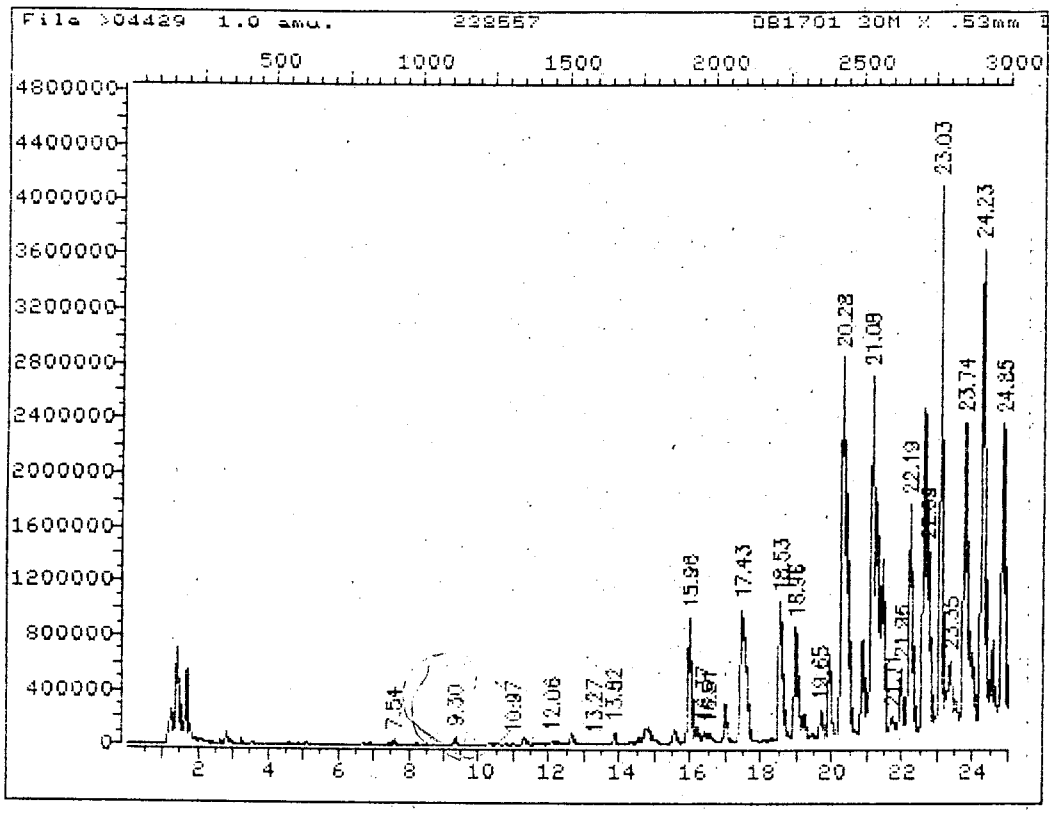
This report was produced by QAREA on: 960723 07:50



Data File: >03429::G2 Quant Output File: ^03429::GQ
Name: 238557 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ
Quant Time: 960722 13:33 Quant ID File: IDCAP5::SC
Injected at: 960722 12:36 Last Calibration: 941029 10:07

Compound No: 54
Compound Name: Aroclor-1254(S)
Scan Number: 2978
Retention Time: 24.80 min.
Quant Ion: 1.0
Area: 24399952M
Concentration: 6676.69 ng/ml
q-value: 100

This report was produced by QAREA on: 960723 07:52



Data File: >04429::G4 Quant Output File: ^04429::GQ
Name: 238557 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP6::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

Operator ID: TRFI2
Quant Time : 960722 13:29
Injected at: 960722 12:36

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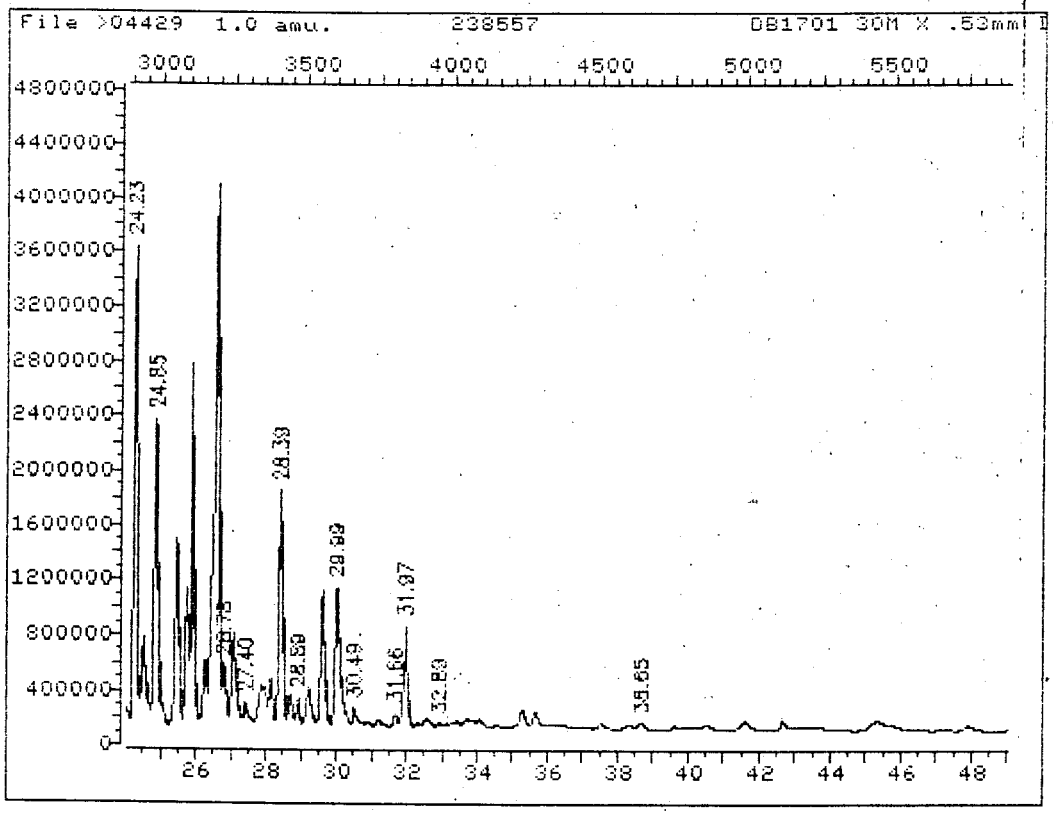

Data File: >04429::G4 Quant Output File: ^04429::GQ
Name: 238557 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP6::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

Operator ID: TRFI2
Quant Time : 960722 13:29
Injected at: 960722 12:36

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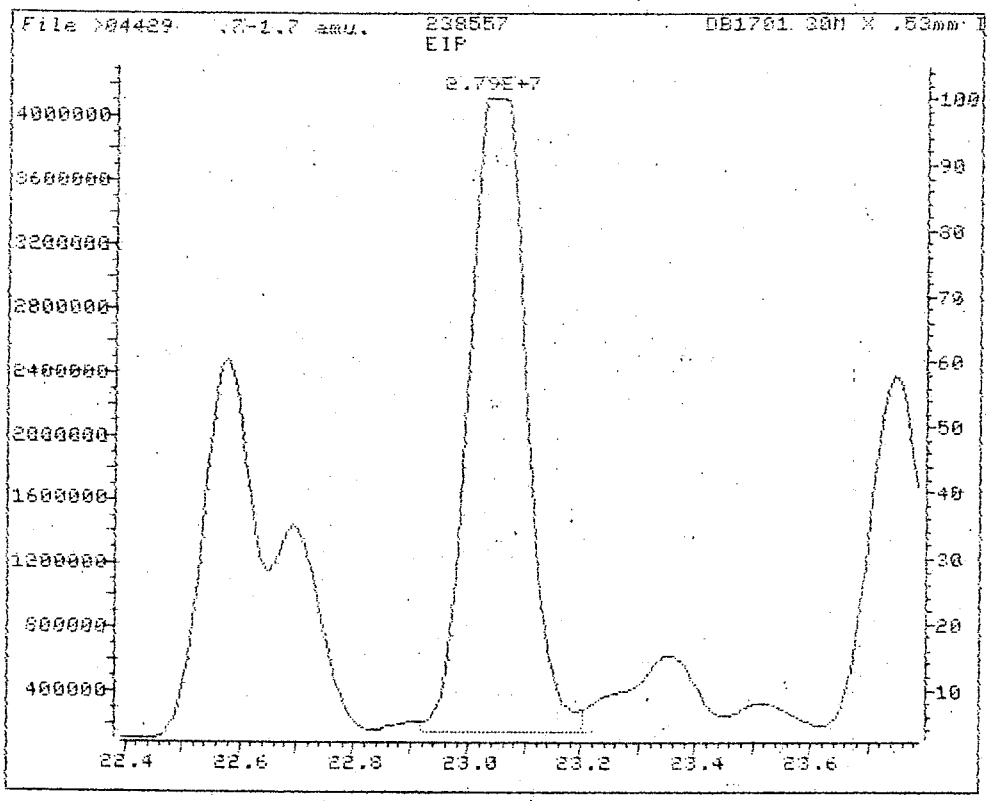


Data File: >04429::G4 Quant Output File: ^04429::GQ
Name: 238557 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ
Quant Time: 960722 13:29 Quant ID File: IDCAP6::SC
Injected at: 960722 12:36 Last Calibration: 941029 10:07

Compound No: 53
Compound Name: Aroclor-1254(4)
Scan Number: 2764
Retention Time: 23.03 min.
Quant Ion: 1.0
Area: 27869620M
Concentration: 10727.96 ng/ml
q-value: 100

This report was produced by QAREA on: 960723 07:30

QUANT REPORT

Operator ID: TRFI2
Output File: ^03429::GQ
Data File: >03429::G2
Name: 238557
Misc: DB608, 30M X .53mm INST 58905, 1ul INJ

Quant Rev: 7
Quant Time: 960722 13:33
Injected at: 960722 12:36
Dilution Factor: 1.00000
Instrument ID: GC03

ID File: IDCAP5::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07
Last Qcal Time: 960713 22:00

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Tetrachloro-m-xylene	9.07	1088	1204822	10.07	ng/ml	100
2) ~~#alpha-BHC~~	12.45	1494	985625	6.61	ng/ml	100
3) ~~#beta-BHC~~	14.82	1779	669406	8.18	ng/ml	100
4) ~~#delta-BHC~~	16.42	1971	375754	2.92	ng/ml	100
5) ~~#gamma-BHC (Lindane)~~	14.38	1726	1171379	8.45	ng/ml	100
6) ~~#Heptachlor~~	16.02	1922	14465770	137.70	ng/ml	100
7) ~~#Aldrin~~	17.37	2084	2757008	20.65	ng/ml	100
8) ~~#Heptachlor epoxide~~ NT	19.93	2391	6072670	48.64	ng/ml	100
9) ~~#Endosulfan I~~	21.70	2604	13564498	127.80	ng/ml	100
10) ~~#Dieldrin~~	22.96	2755	2161337	22.91	ng/ml	100
11) ~~#4,4'-DDE~~	22.68	2722	20606960	223.17	ng/ml	100
12) ~~#Endrin~~	24.80	2976	3554209	40.66	ng/ml	100
13) ~~#Endosulfan II~~	25.84	3101	13529814	136.73	ng/ml	100
14) ~~#4,4' DDD~~	25.54	3064	2514864	40.73	ng/ml	100
15) ~~#Endosulfan Sulfate~~	28.39	3406	5937048	44.77	ng/ml	100
16) ~~#4,4' DDT~~	27.29	3274	3298900	48.56	ng/ml	100
17) ~~#Methoxychlor~~	32.45	3894	4732029	118.94	ng/ml	100
18) ~~#Endrin ketone~~	32.67	3920	718221	7.74	ng/ml	100
19) #Decachlorobiphenyl	41.60	4992	2205289M	19.07	ng/ml	
20) ~~#alpha-Chlordane~~ NT	21.43	2572	19874800	164.93	ng/ml	100
22) ~~#Toxaphene(1)~~ NT	23.83	2859	12740786	7973.86	ng/ml	100
23) ~~#Aroclor-1016(1)~~ NP	12.27	1473	162728	56.96	ng/ml	100
24) ~~#Aroclor-1221(1)~~ NP	8.05	966	403702	469.57	ng/ml	100
25) ~~#Aroclor-1232(1)~~ NP	12.27	1473	162728	60.46	ng/ml	100
26) ~~#Aroclor-1242(1)~~ NP	12.27	1473	162728	67.06	ng/ml	100
27) ~~#Aroclor-1248(1)~~ NP	16.02	1922	14424048	1914.65	ng/ml	100
28) #Aroclor-1254(1)	20.81	2497	30665272M	6163.96	ng/ml	
29) ~~#Aroclor-1260(1)~~ NP	24.37	2924	27075804	4229.36	ng/ml	100
30) ~~#Endrin aldehyde~~	27.67	3320	7463070	92.26	ng/ml	100
31) ~~#Toxaphene(2)~~ NT	27.67	3320	7463070	4464.81	ng/ml	100
32) ~~#Toxaphene(3)~~	28.39	3406	3937048	1856.22	ng/ml	100
33) ~~#Toxaphene(4)~~	30.54	3665	1951388	998.98	ng/ml	100
34) ~~#Aroclor-1016(2)~~ NP	14.29	1715	1308550	225.36	ng/ml	100
35) ~~#Aroclor-1016(3)~~ NP	16.02	1922	14424048	1290.76	ng/ml	100
36) ~~#Aroclor-1016(4)~~ NP	16.76	2011	404380	105.05	ng/ml	100
37) ~~#Aroclor-1016(5)~~ NP	18.99	2279	14759356	4363.67	ng/ml	100
38) ~~#Aroclor-1221(2)~~ NP	11.27	1352	247715	152.43	ng/ml	100
39) ~~#Aroclor-1221(3)~~ NP	12.27	1473	162728	43.90	ng/ml	100
40) ~~#Aroclor-1232(2)~~ NP	14.29	1715	1308550	466.12	ng/ml	100
41) ~~#Aroclor-1232(3)~~ NP	16.02	1922	14424048	3090.55	ng/ml	100

NM 07/23/96

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960722 13:33
Output File: ^03429::GQ Injected at: 960722 12:36
Data File: >03429::G2 Dilution Factor: 1.00000
Name: 238557 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP5::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

Compound	R.T.	Scan#	Area	Conc	Units	q
~~42) #Aroclor-1232(4)~~ NP	16.76	2011	404380	231.39	ng/ml	100
~~43) #Aroclor-1242(2)~~ NP	14.29	1715	1308550	282.68	ng/ml	100
~~44) #Aroclor-1242(3)~~ NP	16.02	1922	14424048	1626.55	ng/ml	100
~~45) #Aroclor-1242(4)~~ NP	16.76	2011	404380	122.15	ng/ml	100
~~46) #Aroclor-1242(5)~~ NP	18.99	2279	14759356	5045.47	ng/ml	100
~~47) #Aroclor-1248(2)~~ NP	17.52	2102	8901104	2787.72	ng/ml	100
~~48) #Aroclor-1248(3)~~ NP	18.99	2279	14759356	3586.13	ng/ml	100
~~49) #Aroclor-1248(4)~~ NP	20.44	2453	19145892	4660.77	ng/ml	100
~~50) #Aroclor-1248(5)~~ NP	21.70	2604	13564498	3097.25	ng/ml	100
51) #Aroclor-1254(2)	21.10	2532	33267156M	5669.72	ng/ml	100
52) #Aroclor-1254(3)	22.68	2722	20606960	11155.96	ng/ml	100
53) #Aroclor-1254(4)	23.46	2815	36227176M	5605.41	ng/ml	100
54) #Aroclor-1254(5)	24.80	2976	24399952M	6676.69	ng/ml	100
~~55) #Aroclor-1260(2)~~ NP	24.80	2976	3554209	498.89	ng/ml	100
~~56) #Aroclor-1260(3)~~ NP	26.52	3182	19246932	4181.00	ng/ml	100
~~57) #Aroclor-1260(4)~~ NP	30.12	3614	16915976	1544.43	ng/ml	100
~~58) #Aroclor-1260(5)~~ NP	32.87	3944	11382140	2308.90	ng/ml	100

Compound uses ESTD

7/23/96

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960722 13:29
Output File: ^04429::GQ Injected at: 960722 12:36
Data File: >04429::G4 Dilution Factor: 1.00000
Name: 238557 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903. 1ul INJ

ID File: IDCAP6::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.30	1116	366514	8.96	ng/ml	100
2)	~~#alpha-BHC~~	13.27	1593	39687	1.22	ng/ml	100
3)	~~#beta-BHC~~	18.53	2224	7793212	310.56	ng/ml	100
4)	~~#delta-BHC~~	19.65	2358	1252534	47.76	ng/ml	100
6)	~~#Heptachlor~~	16.37	1965	342893	7.33	ng/ml	100
7)	~~#Aldrin~~	17.43	2092	10728702	286.52	ng/ml	100
9)	~~#Endosulfan I~~	21.71	2605	712525	20.42	ng/ml	100
10)	~~#Dieldrin~~	23.35	2802	2745161	85.54	ng/ml	100
11)	~~#4,4'-DDE~~ NT	22.69	2723	6809011	240.45	ng/ml	100
12)	~~#Endrin~~	24.23	2907	24069480	828.89	ng/ml	100
13)	~~#Endosulfan II~~	26.78	3213	2229972	65.14	ng/ml	100
15)	~~#Endosulfan Sulfate~~	30.49	3659	974523	35.52	ng/ml	100
16)	~~#4,4'-DDT~~	27.40	3288	652539	37.34	ng/ml	100
18)	~~#Endrin ketone~~	32.89	3947	134607	4.24	ng/ml	100
19)	#Decachlorobiphenyl	38.65	4638	585950	12.78	ng/ml	100
20)	~~#alpha-Chlordane~~ NT	22.19	2663	11865530	284.80	ng/ml	100
21)	~~#gamma-Chlordane~~ NT	21.96	2635	2584301	64.50	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.06	1447	174262	143.86	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	7.54	905	190069	248.65	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	7.54	905	190069	172.19	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.06	1447	174262	169.63	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	13.82	1659	573124	557.55	ng/ml	100
28)	#Aroclor-1254(1)	17.43	2092	10728702	6766.51	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	23.74	2849	15838294	6382.47	ng/ml	100
30)	~~#Endrin aldehyde~~ NP	28.89	3467	1332717	41.45	ng/ml	100
31)	~~#Toxaphene(2)~~	28.39	3407	11928806	17616.87	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	30.49	3659	974523	1806.73	ng/ml	100
33)	~~#Toxaphene(4)~~	31.66	3799	729799	1408.08	ng/ml	100
34)	~~#Aroclor-1016(2)~~	13.82	1659	573124	232.02	ng/ml	100
35)	~~#Aroclor-1016(3)~~	15.96	1915	5563873	1384.54	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.51	1981	420629	283.19	ng/ml	100
37)	~~#Aroclor-1016(5)~~	18.53	2224	7755185	3968.90	ng/ml	100
38)	~~#Aroclor-1221(2)~~	10.97	1317	24464	37.53	ng/ml	100
39)	~~#Aroclor-1221(3)~~ NP	12.06	1447	174262	102.77	ng/ml	100
40)	~~#Aroclor-1232(2)~~	12.06	1447	174262	153.47	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	13.82	1659	573124	574.28	ng/ml	100
42)	#Aroclor-1232(4)	15.96	1915	5563873	3417.57	ng/ml	100
43)	~~#Aroclor-1242(2)~~	13.82	1659	573124	296.40	ng/ml	100
44)	~~#Aroclor-1242(3)~~ NP	15.96	1915	5563873	1764.91	ng/ml	100
45)	~~#Aroclor-1242(4)~~	16.51	1981	420629	367.53	ng/ml	100

EPW
2/23/96

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960722 13:29
Output File: ^04429::GQ Injected at: 960722 12:36
Data File: >04429::G4 Dilution Factor: 1.00000
Name: 238557 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP6::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
46)	#~~Aroclor-1242(5)~~ NP	17.43	2092	10728702	12550.69	ng/ml	100
47)	#~~Aroclor-1248(2)~~	15.96	1915	5563873	2059.98	ng/ml	100
48)	#~~Aroclor-1248(3)~~	18.53	2224	7755185	3203.97	ng/ml	100
49)	#~~Aroclor-1248(4)~~ NP	18.96	2275	5408936	2959.86	ng/ml	100
50)	#~~Aroclor-1248(5)~~	20.28	2433	18062580	15833.26	ng/ml	100
51)	#Aroclor-1254(2)	20.28	2433	18062580	8406.13	ng/ml	100
52)	#Aroclor-1254(3)	21.08	2530	15894378	8649.48	ng/ml	100
53)	#Aroclor-1254(4)	23.03	2764	27869620M	10727.96	ng/ml	100
54)	#Aroclor-1254(5)	23.74	2849	15838294	11134.99	ng/ml	100
55)	#~~Aroclor-1260(2)~~	24.85	2982	13721696	4806.84	ng/ml	100
56)	#~~Aroclor-1260(3)~~	28.39	3407	11928806	7172.76	ng/ml	100
57)	#~~Aroclor-1260(4)~~ NP	29.99	3598	9429286	2204.36	ng/ml	100
58)	#Aroclor-1260(5)	31.97	3836	6909564	2506.77	ng/ml	100

Compound uses ESTD EPNa

7/23/96

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S10 DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Matrix: (soil/water) SOIL Lab Sample ID: 238557

Sample wt/vol: 30.4 (g/mL) G Lab File ID: 03241

% Moisture: 57. decanted: (Y/N) N Date Received: 06/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/03/96

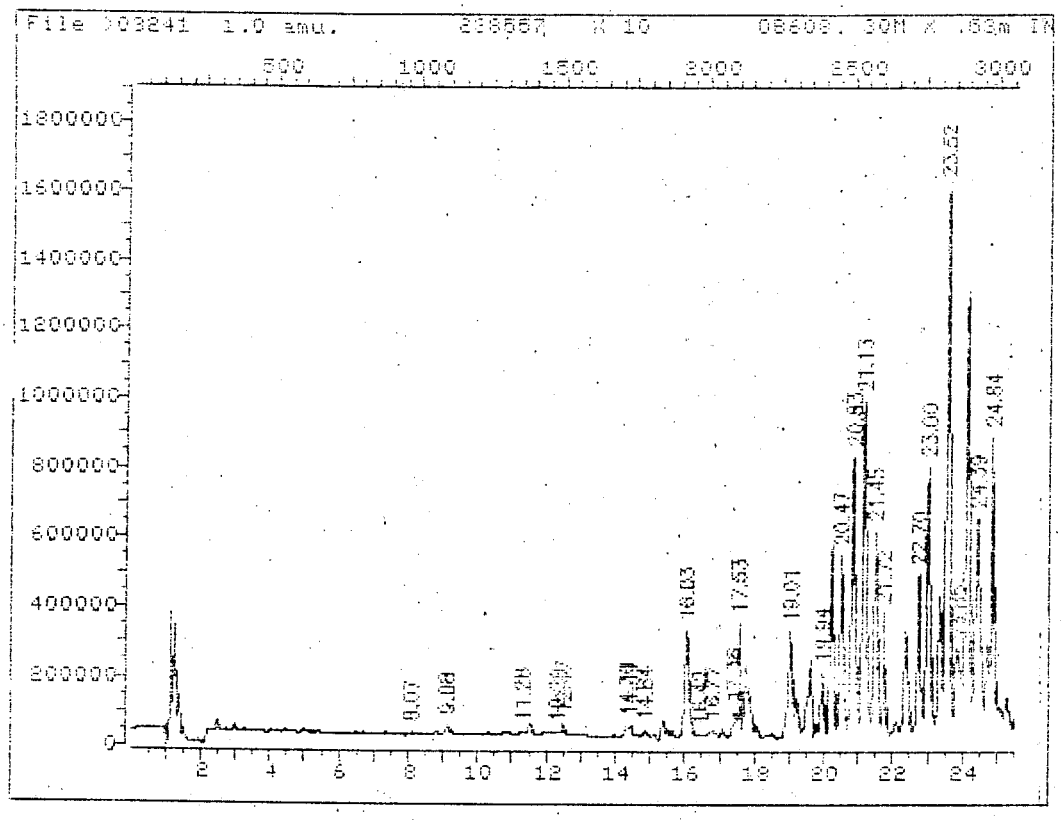
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/10/96

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

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

Do not use these data

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	39.	U
319-85-7	beta-BHC	39.	U
319-86-8	delta-BHC	39.	U
58-89-9	gamma-BHC (Lindane)	39.	U
76-44-8	Heptachlor	39.	U
309-00-2	Aldrin	39.	U
1024-57-3	Heptachlor epoxide	39.	U
959-98-8	Endosulfan I	39.	U
60-57-1	Dieldrin	76.	U
72-55-9	4,4'-DDE	76.	U
72-20-8	Endrin	76.	U
33213-65-9	Endosulfan II	76.	U
72-54-8	4,4'-DDD	76.	U
1031-07-8	Endosulfan Sulfate	76.	U
50-29-3	4,4'-DDT	76.	U
72-43-5	Methoxychlor	390.	U
53494-70-5	Endrin ketone	76.	U
7421-93-4	Endrin aldehyde	76.	U
5103-71-9	alpha-Chlordane	39.	U
5103-74-2	gamma-Chlordane	39.	U
8001-35-2	Toxaphene	3900.	U
12674-11-2	Aroclor-1016	760.	U
11104-28-2	Aroclor-1221	1500.	U
11141-16-5	Aroclor-1232	760.	U
53469-21-9	Aroclor-1242	760.	U
12672-29-6	Aroclor-1248	760.	U
11097-69-1	Aroclor-1254	11000.	J
11096-82-5	Aroclor-1260	760.	U



Data File: >03241::G3 Quant Output File: ^03241::F3
Name: 238557 X 10 Instrument ID: GC03
Misc: DB608, 30M X .53m INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qual Time: 960702 00:13

Operator ID: TRFI2
Quant Time : 960710 13:09
Injected at: 960710 11:47

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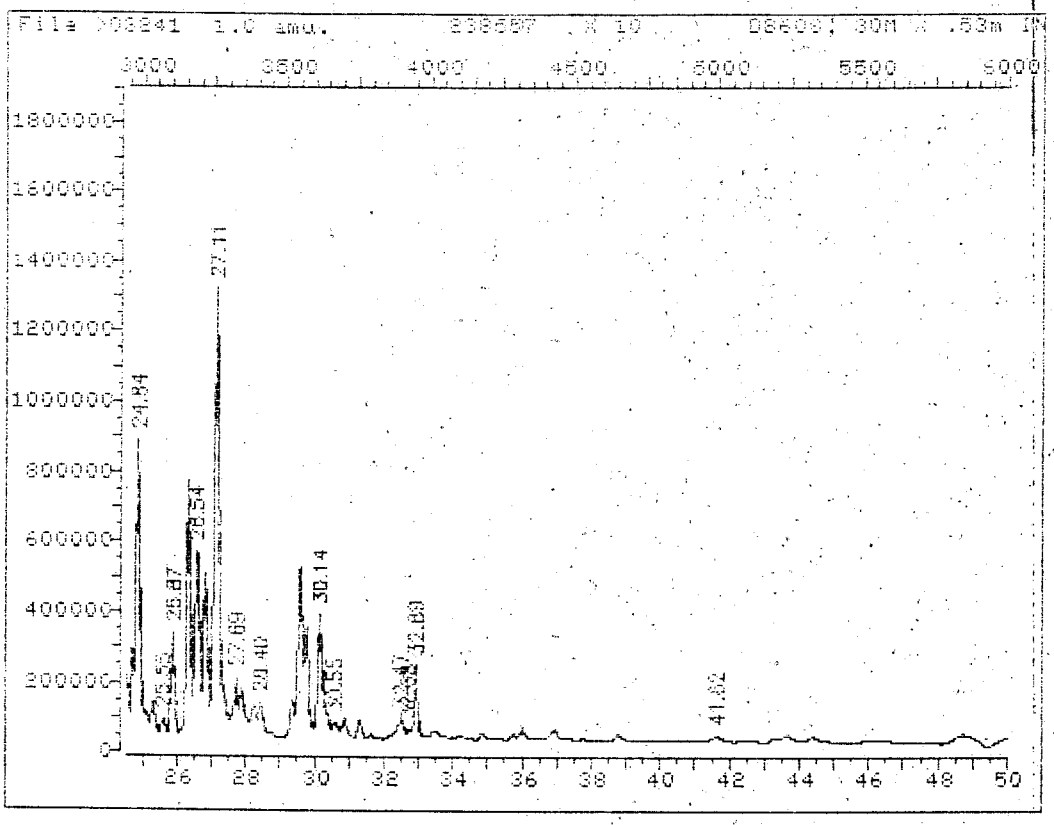
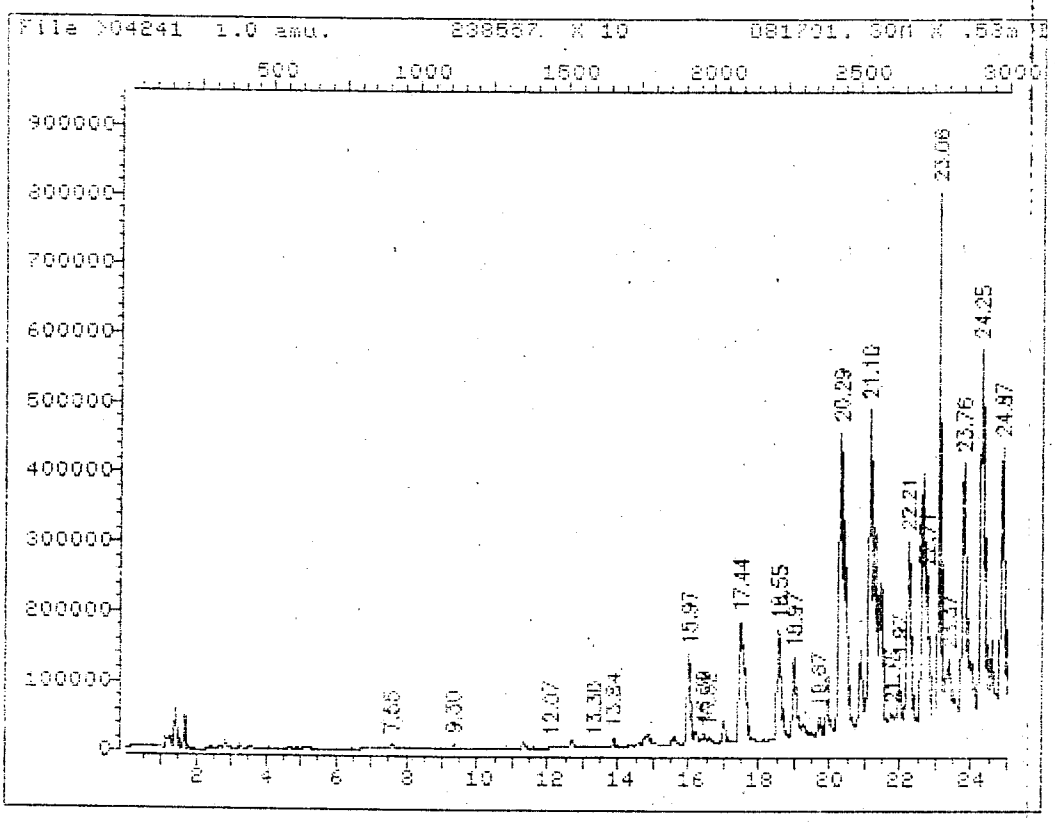


Data File: >03241::G3 Quant Output File: ^03241::F3
Name: 238557 X 10 Instrument ID: GC03
Misc: DB608, 30M X .53m INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

Operator ID: TRFI2
Quant Time : 960710 13:09
Injected at: 960710 11:47

Page 2 of 2

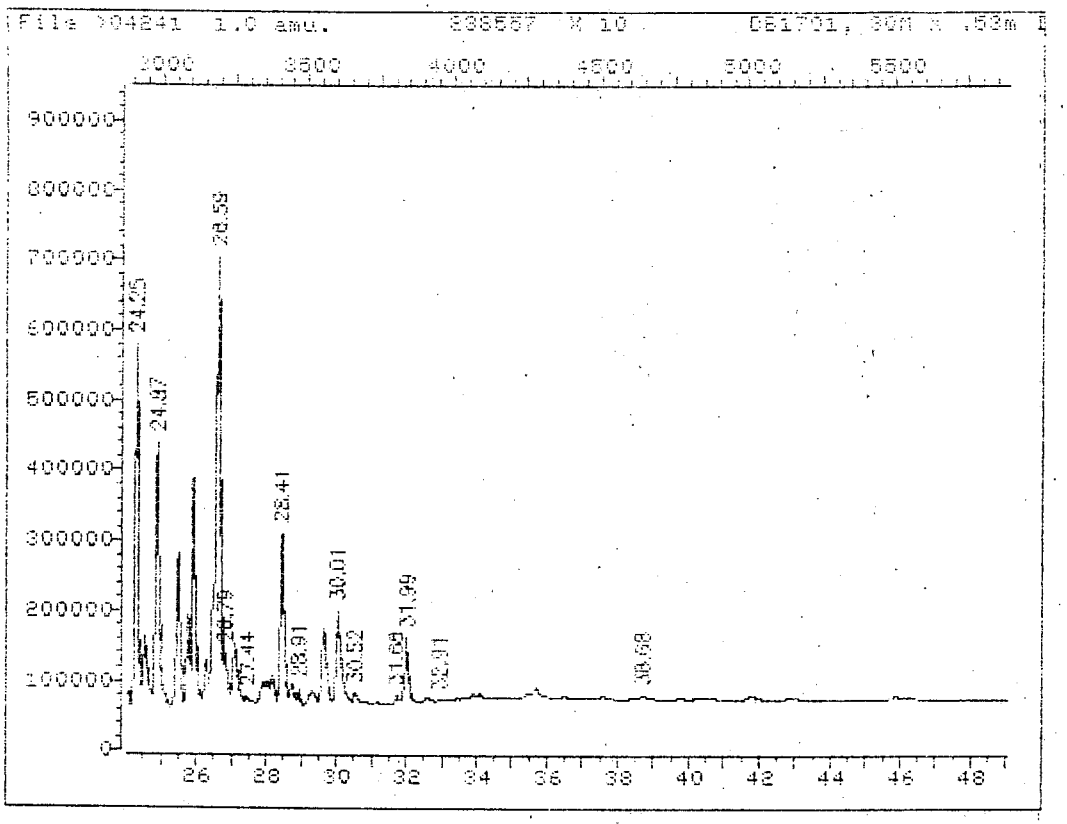


Data File: >04241::G1 Quant Output File: ^04241::F3
Name: 238557 X 10 Instrument ID: GC04
Misc: DB1701, 30M X .53m INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

Operator ID: TRFI2
Quant Time : 960710 13:06
Injected at: 960710 11:47

Page 1 of 2



Data File: >04241::S1 Quant Output File: >04241::F3
Name: 238557 X 10 Instrument ID: GC04
Misc: DB1701, 30M X .53m INST 58903. 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

Operator ID: TRFI2
Quant Time : 960710 13:06
Injected at: 960710 11:47

Page 2 of 2.

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960710 13:09
Output File: ^03241::F3 Injected at: 960710 11:47
Data File: >03241::G3 Dilution Factor: 1.00000
Name: 238557 X 10 Instrument ID: GC03
Misc: DB608, 30M X .53m INST 58903, 1ul INJ

S10DL

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.08	1090	127744	1.02	ng/ml	100
2)	~~#alpha BHC~~	12.47	1496	170511	1.15	ng/ml	100
3)	~~#beta BHC~~	14.84	1781	105360	1.28	ng/ml	100
4)	~~#delta BHC~~	16.42	1971	23281	.193	ng/ml	100
5)	~~#gamma BHC (Lindane)~~	14.41	1729	161910	1.18	ng/ml	100
6)	~~#Heptachlor~~	16.03	1924	2436398	31.23	ng/ml	100
7)	~~#Aldrin~~	17.38	2086	392735	2.91	ng/ml	100
8)	~~#Heptachlor epoxide~~	19.94	2393	969352	8.82	ng/ml	100
9)	~~#Endosulfan I~~	21.72	2606	2106296	17.29	ng/ml	100
10)	~~#Dieldrin~~	23.00	2760	4767751	50.43	ng/ml	100
11)	~~#4,4' DDE~~	22.70	2724	3484476	38.09	ng/ml	100
12)	~~#Endrin~~	24.84	2980	5342335	62.42	ng/ml	100
13)	~~#Endosulfan II~~	25.87	3104	2025569	21.03	ng/ml	100
14)	~~#4,4' DDD~~	25.55	3066	308319	5.35	ng/ml	100
15)	~~#Endosulfan Sulfate~~	28.40	3408	654922	7.39	ng/ml	100
16)	~~#4,4'-DDT~~	27.11	3253	9559408	147.48	ng/ml	100
17)	~~#Methoxychlor~~	32.47	3896	783787	20.19	ng/ml	100
18)	~~#Endrin ketone~~	32.68	3921	153470	1.70	ng/ml	100
19)	#Decachlorobiphenyl	41.62	4994	300751	2.51	ng/ml	100
20)	~~#alpha Chlordane~~ NT	21.45	2574	3615153	26.33	ng/ml	100
21)	~~#gamma Chlordane~~ NT	20.83	2500	5542445	47.03	ng/ml	100
22)	~~#Toxaphene(1)~~ NP	23.85	2862	1944789	1212.67	ng/ml	100
23)	~~#Aroclor 1016(1)~~ NP	12.29	1475	32768	11.15	ng/ml	100
24)	~~#Aroclor 1221(1)~~ NP	8.07	969	74476	87.82	ng/ml	100
25)	~~#Aroclor 1232(1)~~ NP	12.29	1475	32768	11.44	ng/ml	100
26)	~~#Aroclor 1242(1)~~ NP	12.29	1475	32768	12.56	ng/ml	100
27)	~~#Aroclor 1248(1)~~ NP	16.03	1924	2480314	327.77	ng/ml	100
28)	#Aroclor-1254(1)	20.83	2500	5542445	1168.93	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	24.39	2927	4693447	605.45	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	27.69	3323	1085521	13.76	ng/ml	100
31)	~~#Toxaphene(2)~~ NP	27.69	3323	1085521	589.91	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	28.40	3408	654922	262.02	ng/ml	100
33)	~~#Toxaphene(4)~~ NP	30.55	3666	222947	115.65	ng/ml	100
34)	~~#Aroclor 1016(2)~~ NP	14.30	1716	224532	34.35	ng/ml	100
35)	~~#Aroclor 1016(3)~~ NP	16.03	1924	2480314	224.55	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.77	2013	53094	14.22	ng/ml	100
37)	~~#Aroclor 1016(5)~~ NP	19.01	2281	2482598	730.68	ng/ml	100
38)	~~#Aroclor 1221(2)~~ NP	11.28	1354	34571	20.57	ng/ml	100
39)	~~#Aroclor-1221(3)~~ NP	12.29	1475	32768	8.59	ng/ml	100
40)	~~#Aroclor-1232(2)~~ NP	14.30	1716	224532	79.56	ng/ml	100

EPrice
7/10/96

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960710 13:09
Output File: ^03241::F3 Injected at: 960710 11:47
Data File: >03241::G3 Dilution Factor: 1.00000
Name: 238557 X 10 Instrument ID: GC03
Misc: DB608. 30M X .53m INST 58903. 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Seal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
41)	~~#Aroclor-1232(3)~~ NP	16.03	1924	2480314	527.21	ng/ml	100
42)	~~#Aroclor-1232(4)~~ NP	16.77	2013	53094	30.84	ng/ml	100
43)	~~#Aroclor-1242(2)~~ NP	14.30	1716	224532	41.72	ng/ml	100
44)	~~#Aroclor-1242(3)~~ NP	16.03	1924	2480314	278.27	ng/ml	100
45)	~~#Aroclor-1242(4)~~ NP	16.77	2013	53094	16.79	ng/ml	100
46)	~~#Aroclor-1242(5)~~ NP	19.01	2281	2482598	830.59	ng/ml	100
47)	~~#Aroclor-1248(2)~~ NP	17.53	2104	1739560	666.85	ng/ml	100
48)	~~#Aroclor-1248(3)~~ NP	19.01	2281	2482598	597.84	ng/ml	100
49)	~~#Aroclor-1248(4)~~ NP	20.47	2456	3108991	641.69	ng/ml	100
50)	~~#Aroclor-1248(5)~~ NP	21.72	2606	2106296	382.04	ng/ml	100
51)	#Aroclor-1254(2)	21.13	2535	6705099	1209.90	ng/ml	100
52)	#Aroclor-1254(3)	22.70	2724	3484476	2161.05	ng/ml	100
53)	#Aroclor-1254(4)	23.52	2822	10251030	1688.50	ng/ml	100
54)	#Aroclor-1254(5)	24.84	2980	5342335	1489.93	ng/ml	100
55)	~~#Aroclor-1260(2)~~ NP	24.84	2980	5342335	762.71	ng/ml	100
56)	~~#Aroclor-1260(3)~~ NP	26.54	3185	3854753	738.42	ng/ml	100
57)	~~#Aroclor-1260(4)~~ NP	30.14	3616	2589187	239.64	ng/ml	100
58)	~~#Aroclor-1260(5)~~ NP	32.89	3947	1669995	302.48	ng/ml	100

Compound uses ESTD

EPrin
7/10/96

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960710 13:06
Output File: ^04241::F3 Injected at: 960710 11:47
Data File: >04241::G1 Dilution Factor: 1.00000
Name: 238557 X 10 Instrument ID: GC04
Misc: DB1701, 30M X .53m INST F9903, 1ul INJ

ID File: IDCAPC::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Ocal Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.30	1116	44392	1.07	ng/ml	100
2)	~~#alpha-BHC~~	13.30	1596	6476	.198	ng/ml	100
3)	~~#beta-BHC~~	18.55	2226	1214501	46.22	ng/ml	100
4)	~~#delta-BHC~~	19.67	2360	158425	6.50	ng/ml	100
6)	~~#Heptachlor~~	16.39	1967	77084	1.63	ng/ml	100
7)	~~#Aldrin~~	17.44	2093	1098168	29.16	ng/ml	100
9)	~~#Endosulfan~~ I	21.76	2611	67695	1.90	ng/ml	100
10)	~~#Dieldrin~~	23.37	2804	460335	14.18	ng/ml	100
11)	~~#4,4'-DDE~~	22.71	2725	1080085	38.91	ng/ml	100
12)	~~#Endrin~~	24.25	2910	3808585	131.38	ng/ml	100
13)	~~#Endosulfan II~~	26.79	3215	436513	12.20	ng/ml	100
14)	~~#4,4'-DDD~~	26.59	3190	5616562	265.80	ng/ml	100
15)	~~#Endosulfan Sulfate~~	30.52	3662	99973	3.78	ng/ml	100
16)	~~#4,4'-DDT~~	27.44	3292	28621	1.74	ng/ml	100
18)	~~#Endrin ketone~~	32.91	3949	11249	.399	ng/ml	100
19)	#Decachlorobiphenyl	38.68	4641	69443	1.49	ng/ml	100
20)	~~#alpha-Chlordane~~ NT	22.21	2665	1779691	42.67	ng/ml	100
21)	~~#gamma-Chlordane~~ NT	21.97	2636	319423	7.99	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.07	1448	17454	14.13	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	7.55	906	32048	40.52	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	7.55	906	32048	26.91	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.07	1448	17454	16.50	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	13.84	1661	79645	72.31	ng/ml	100
28)	#Aroclor-1254(1)	17.44	2093	1097944	691.12	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	23.76	2851	2611855	1130.51	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	28.91	3469	183521	6.04	ng/ml	100
31)	~~#Toxaphene(2)~~ NP	28.41	3409	1706549	2367.77	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	30.52	3662	99973	202.84	ng/ml	100
33)	~~#Toxaphene(4)~~ NP	31.68	3801	85058	169.51	ng/ml	100
34)	~~#Aroclor-1016(2)~~ NP	13.84	1661	79645	32.58	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	15.97	1917	801063	206.51	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.52	1983	55695	38.24	ng/ml	100
37)	~~#Aroclor-1016(5)~~ NP	18.55	2226	1214501	589.37	ng/ml	100
39)	~~#Aroclor-1221(3)~~ NP	12.07	1448	17454	10.18	ng/ml	100
40)	~~#Aroclor-1232(2)~~ NP	12.07	1448	17454	14.90	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	13.84	1661	79645	77.35	ng/ml	100
42)	~~#Aroclor-1232(4)~~ NP	15.97	1917	801063	512.80	ng/ml	100
43)	~~#Aroclor-1242(2)~~ NP	13.84	1661	79645	40.10	ng/ml	100
44)	~~#Aroclor-1242(3)~~ NP	15.97	1917	801063	259.82	ng/ml	100
45)	~~#Aroclor-1242(4)~~ NP	16.52	1983	55695	48.73	ng/ml	100

EBrui
7/10/96

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960710 13:06
Output File: 04241::F3 Injected at: 960710 11:47
Data File: 04241::61 Dilution Factor: 1.00000
Name: 238557 X 10 Instrument ID: GC04
Disc: DB1701. 30M X .53m INST 58903. 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Cal Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
46)	~~#Aroclor-1242(5)~~ NP	17.44	2093	1097944	1387.62	ng/ml	100
47)	~~#Aroclor-1248(2)~~ NP	15.97	1917	801063	306.65	ng/ml	100
48)	~~#Aroclor-1248(3)~~ NP	18.55	2226	1214501	492.96	ng/ml	100
49)	~~#Aroclor-1248(4)~~ NP	18.97	2276	809445	458.52	ng/ml	100
50)	~~#Aroclor-1248(5)~~ NP	20.29	2435	3011301	3137.43	ng/ml	100
51)	#Aroclor-1254(2)	20.29	2435	3011301	1481.09	ng/ml	100
52)	#Aroclor-1254(3)	21.10	2532	2748281	1498.51	ng/ml	100
53)	#Aroclor-1254(4)	23.06	2767	4732159	1855.97	ng/ml	100
54)	#Aroclor-1254(5)	23.76	2851	2611855	1925.78	ng/ml	100
55)	~~#Aroclor-1260(2)~~ NP	24.87	2984	2340880	862.17	ng/ml	100
56)	~~#Aroclor-1260(3)~~ NP	28.41	3409	1706493	961.49	ng/ml	100
57)	~~#Aroclor-1260(4)~~ NP	30.01	3601	1244584	316.56	ng/ml	100
58)	~~#Aroclor-1260(5)~~ NP	31.99	3839	893625	359.83	ng/ml	100

Compound uses ESTD

EPrui
7/10/96

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S11

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Matrix: (soil/water) SOIL Lab Sample ID: 238559

Sample wt/vol: 30.7 (g/mL) G Lab File ID: 03349

% Moisture: 4. decanted: (Y/N) N Date Received: 06/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/03/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/15/96

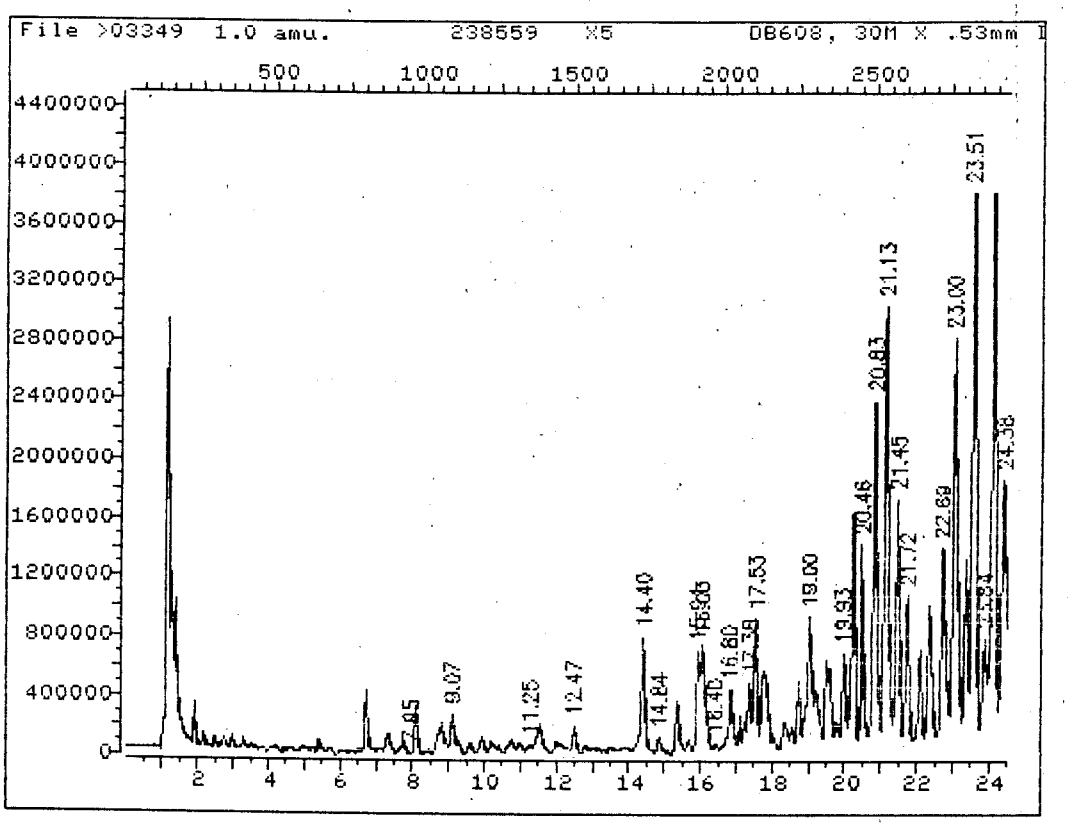
Injection Volume: 1.0 (uL) Dilution Factor: 3.0

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

Use these data.

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	5.2	U
319-85-7	beta-BHC	5.2	U
319-86-8	delta-BHC	5.2	U
58-89-9	gamma-BHC (Lindane)	5.2	U
76-44-8	Heptachlor	5.2	U
309-00-2	Aldrin	5.2	U
1024-57-3	Heptachlor epoxide	5.2	U
959-98-8	Endosulfan I	5.2	U
60-57-1	Dieldrin	10.	U
72-55-9	4,4'-DDE	10.	U
72-20-8	Endrin	10.	U
33213-65-9	Endosulfan II	10.	U
72-54-8	4,4'-DDD	10.	U
1031-07-8	Endosulfan Sulfate	10.	U
50-29-3	4,4'-DDT	10.	U
72-43-5	Methoxychlor	52.	U
53494-70-5	Endrin ketone	10.	U
7421-93-4	Endrin aldehyde	10.	U
5103-71-9	alpha-Chlordane	5.2	U
5103-74-2	gamma-Chlordane	5.2	U
8001-35-2	Toxaphene	520.	U
12674-11-2	Aroclor-1016	100.	U
11104-28-2	Aroclor-1221	210.	U
11141-16-5	Aroclor-1232	100.	U
53469-21-9	Aroclor-1242	100.	U
12672-29-6	Aroclor-1248	100.	U
11097-69-1	Aroclor-1254	4900 ~~4500.~~	~~E~~ J D*
11096-82-5	Aroclor-1260	100.	U

D*. value transferred from diluted analysis S11 DL 30 x D/F

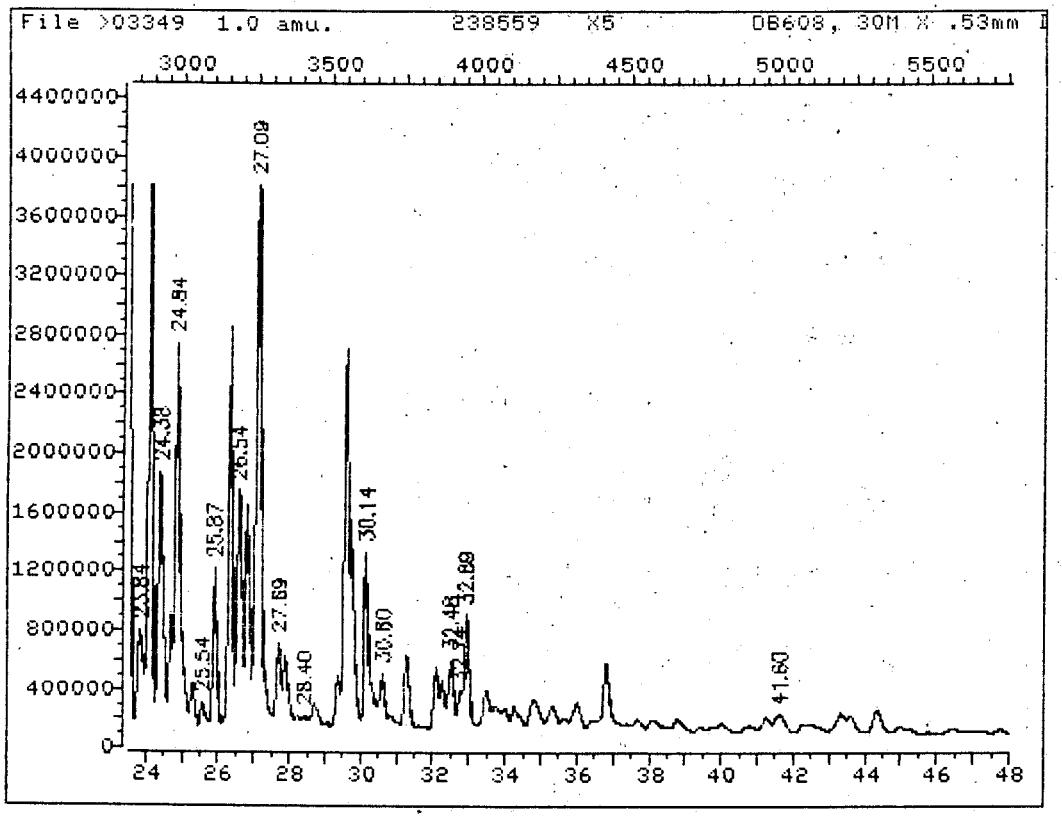


Data File: >03349::F3 Quant Output File: ^03349::GQ
Name: 238559 X5 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP5::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

Operator ID: TRFI2
Quant Time : 960715 16:14
Injected at: 960715 15:21

Page 1 of 2

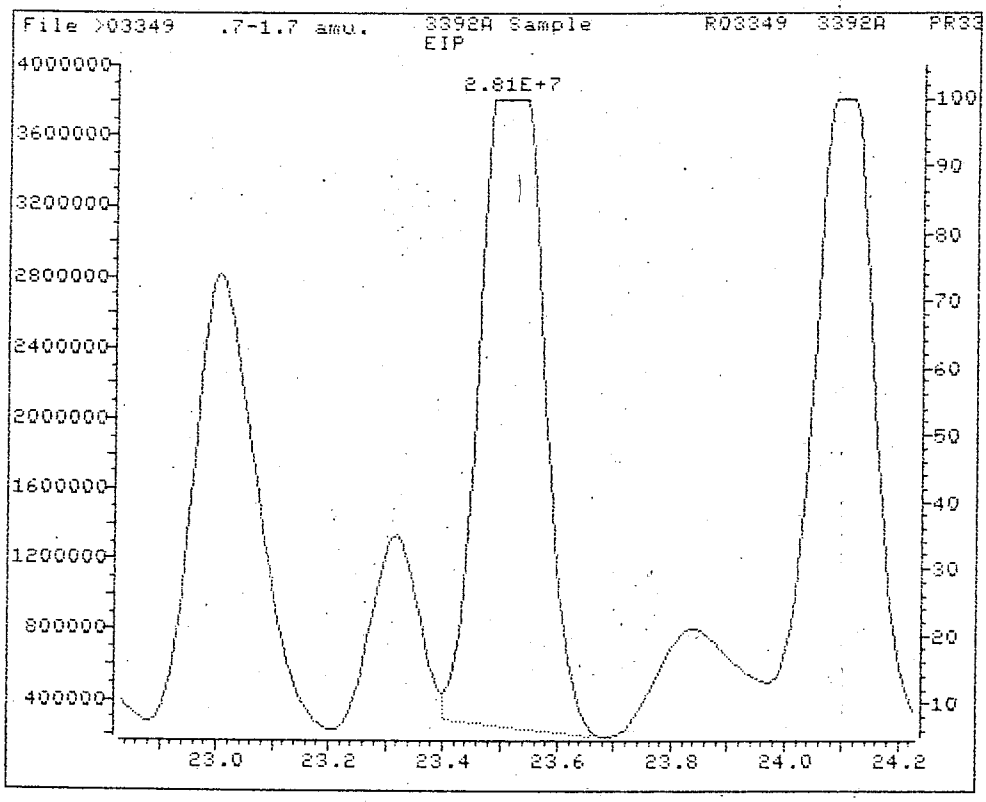


Data File: >03349::F3 Quant Output File: ^03349::GQ
Name: 238559 X5 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP5::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

Operator ID: TRFI2
Quant Time : 960715 16:14
Injected at: 960715 15:21

Page 2 of 2



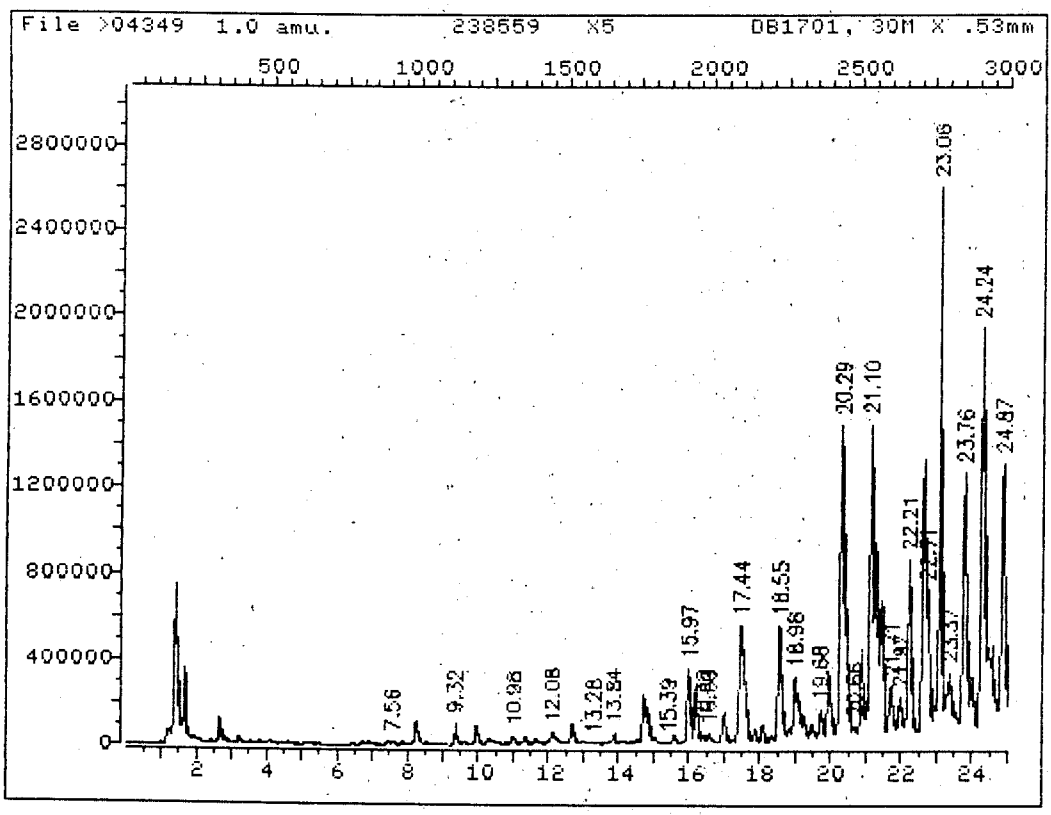
Data File: >03349::F3
Name: 3392A Sample
Misc: R03349 3392A PR3392
Quant Time: 960715 16:14
Injected at: 960715 15:21

Quant Output File: ^03349::GQ
Instrument ID: GC03

Quant ID File: IDCAP5::SC
Last Calibration: 941029 10:07

Compound No: 53
Compound Name: Aroclor-1254(4)
Scan Number: 2821
Retention Time: 23.51 min.
Quant Ion: 1.0
Area: 28066736M
Concentration: 4342.75 ng/ml
q-value: 100

This report was produced by QAREA on: 960719 10:48



Data File: >04349::G1 Quant Output File: ^04349::GQ
Name: 238559 X5 Instrument ID: GC04
Misc: DB1701, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP6::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

Operator ID: TRFI2
Quant Time : 960715 16:17
Injected at: 960715 15:21

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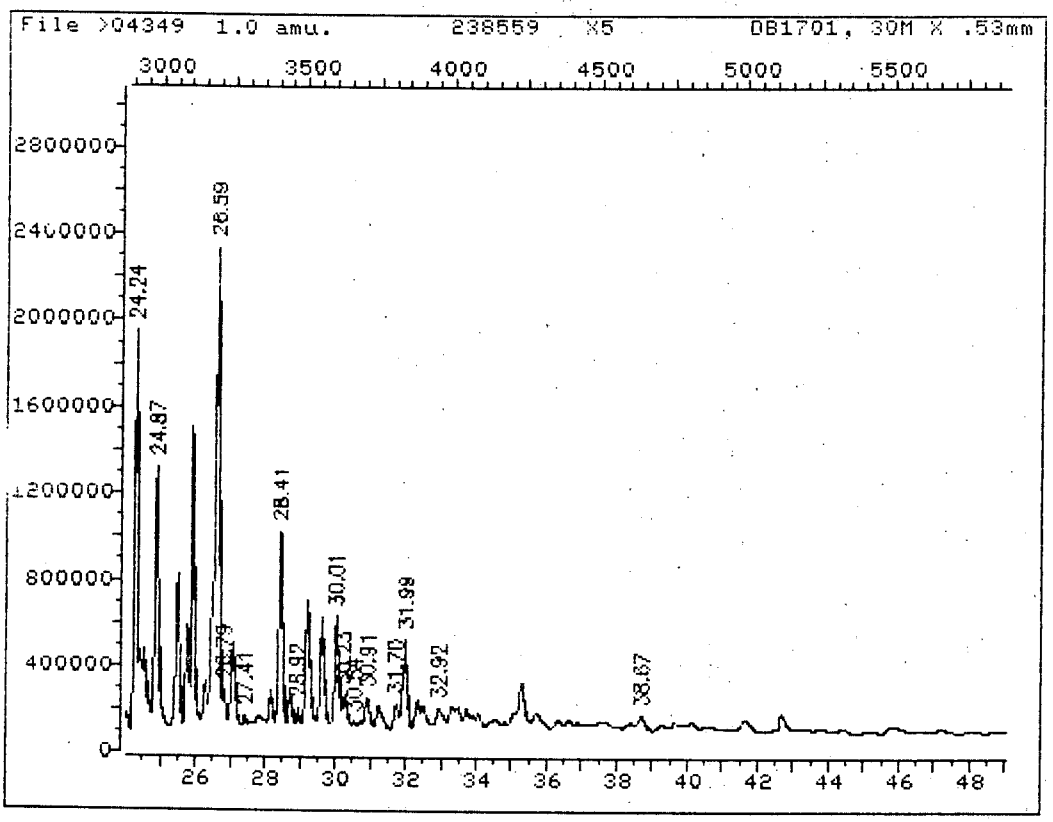

Data File: >04349::G1 Quant Output File: ^04349::GQ
Name: 238559 X5 Instrument ID: GC04
Misc: DB1701, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP6::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

Operator ID: TRFI2
Quant Time : 960715 16:17
Injected at: 960715 15:21

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QUANT REPORT

Operator ID: TRFI2
Output File: ^03349::GQ
Data File: >03349::F3
Name: 238559 X5
Disc: DB608, 30M X .53mm INST 58903, 1ul INJ

Quant Rev: 7
Quant Time: 960715 16:14
Injected at: 960715 15:21
Dilution Factor: 1.00000
Instrument ID: GC03

S11

ID File: IDCAP5::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07
Last Qcal Time: 960713 22:00

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Tetrachloro-m-xylene	9.07	1089	1213254	10.14	ng/ml	100
~~2) #alpha-BHC~~	12.47	1496	1126247	7.56	ng/ml	100
~~3) #beta-BHC~~	14.84	1781	564367	6.90	ng/ml	100
~~4) #delta-BHC~~	16.40	1968	216438	1.68	ng/ml	100
~~5) #gamma-BHC (Lindane)~~	14.40	1728	5410426	39.05	ng/ml	100
~~6) #Heptachlor~~	15.91	1909	4287766	40.81	ng/ml	100
~~7) #Aldrin~~	17.38	2085	1573491	11.79	ng/ml	100
~~8) #Heptachlor epoxide~~	19.93	2392	3148759	25.22	ng/ml	100
~~9) #Endosulfan I~~	21.72	2606	6013155	56.65	ng/ml	100
~~10) #Dieldrin~~	23.00	2760	19762872	209.49	ng/ml	100
~~11) #4,4'-DDE~~	22.69	2723	9969802	107.97	ng/ml	100
~~12) #Endrin~~	24.84	2980	22054716	252.33	ng/ml	100
~~13) #Endosulfan II~~	25.87	3104	7341871	74.19	ng/ml	100
~~14) #4,4'-DDD~~	25.54	3065	1155451	18.71	ng/ml	100
~~15) #Endosulfan Sulfate~~	28.40	3408	220874	2.51	ng/ml	100
~~16) #4,4'-DDT~~	27.09	3251	2930958	43.15	ng/ml	100
~~17) #Methoxychlor~~	32.48	3897	4568524	114.83	ng/ml	100
~~18) #Endrin ketone~~	32.74	3928	878479	9.47	ng/ml	100
19) #Decachlorobiphenyl	41.60	4992	2223652	19.23	ng/ml	100
~~20) #alpha-Chlordane~~ NT	21.45	2574	9515162	78.96	ng/ml	100
~~21) #gamma-Chlordane~~ NT	20.83	2499	15003698	124.08	ng/ml	100
~~22) #Toxaphene(1)~~ NT	23.84	2861	6286639	3934.51	ng/ml	100
~~23) #Aroclor-1016(1)~~ NP	12.47	1496	1126247	394.23	ng/ml	100
~~24) #Aroclor-1221(1)~~ NP	7.95	954	20435	23.77	ng/ml	100
~~25) #Aroclor-1232(1)~~ NP	12.47	1496	1126247	418.45	ng/ml	100
~~26) #Aroclor-1242(1)~~ NP	12.47	1496	1126247	464.14	ng/ml	100
~~27) #Aroclor-1248(1)~~ NP	16.03	1924	5191295	689.09	ng/ml	100
~~28) #Aroclor-1254(1)~~ OK	20.83	2499	15003698	3015.86	ng/ml	100
~~29) #Aroclor-1260(1)~~ NP	24.38	2926	13043668	2037.48	ng/ml	100
~~30) #Endrin aldehyde~~ NT	27.69	3323	4178793	51.66	ng/ml	100
~~31) #Toxaphene(2)~~ NT	27.69	3323	4118362	2463.83	ng/ml	100
~~32) #Toxaphene(3)~~ NT	28.40	3408	220874	104.14	ng/ml	100
~~33) #Toxaphene(4)~~ NT	30.60	3672	2454761	1256.67	ng/ml	100
~~34) #Aroclor-1016(2)~~ NP	14.40	1728	5410426	931.80	ng/ml	100
~~35) #Aroclor-1016(3)~~ NP	16.03	1924	5191295	464.55	ng/ml	100
~~36) #Aroclor-1016(4)~~ NP	16.80	2016	2329332	605.09	ng/ml	100
~~37) #Aroclor-1016(5)~~ NP	19.00	2280	6610601	1954.45	ng/ml	100
~~38) #Aroclor-1221(2)~~ NP	11.25	1350	291273	179.23	ng/ml	100
~~39) #Aroclor-1221(3)~~ NP	12.47	1496	1126247	303.81	ng/ml	100
~~40) #Aroclor-1232(2)~~ NP	14.40	1728	5410426	1927.25	ng/ml	100

NT 7/21/96

7/21/96

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960715 16:14
Output File: ^03349::GQ Injected at: 960715 15:21
Data File: >03349::F3 Dilution Factor: 1.00000
Name: 238559 X5 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP5::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

Compound	R.T.	Scan#	Area	Conc	Units	q
41) #~~Aroclor-1232(3)~~ NP	16.03	1924	5191295	1112.31	ng/ml	100
42) ~~#Aroclor-1232(4)~~ NP	16.80	2016	2329332	1332.84	ng/ml	100
43) ~~#Aroclor-1242(2)~~ NP	14.40	1728	5410426	1168.79	ng/ml	100
44) ~~#Aroclor-1242(3)~~ NP	16.03	1924	5191295	585.41	ng/ml	100
45) ~~#Aroclor-1242(4)~~ NP	16.80	2016	2329332	703.62	ng/ml	100
46) ~~#Aroclor-1242(5)~~ NP	19.00	2280	6610601	2259.83	ng/ml	100
47) ~~#Aroclor-1248(2)~~ NP	17.53	2104	4599588	1440.54	ng/ml	100
48) ~~#Aroclor-1248(3)~~ NP	19.00	2280	6610601	1606.20	ng/ml	100
49) ~~#Aroclor-1248(4)~~ NP	20.46	2455	8277732	2015.09	ng/ml	100
50) ~~#Aroclor-1248(5)~~ NP	21.72	2606	6013155	1373.01	ng/ml	100
51) #Aroclor-1254(2)	21.13	2535	19799036	3374.35	ng/ml	100
52) #Aroclor-1254(3)	22.69	2723	9969807	5397.34	ng/ml	100
53) #Aroclor-1254(4)	23.51	2821	28066736	14342.75	ng/ml	100
54) #Aroclor-1254(5)	24.84	2980	22054716	6034.95	ng/ml	100
55) ~~#Aroclor-1260(2)~~ NP	24.84	2980	22054716	3095.75	ng/ml	100
56) ~~#Aroclor-1260(3)~~ NP	26.54	3184	10259824	2228.73	ng/ml	100
57) ~~#Aroclor-1260(4)~~ NP	30.14	3616	9291314	848.30	ng/ml	100
58) ~~#Aroclor-1260(5)~~ NP	32.89	3947	6503038	1319.16	ng/ml	100

Compound uses ESTD

7/28/96

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960715 16:17
Output File: ^04349::GQ Injected at: 960715 15:21
Data File: >04349::G1 Dilution Factor: 1.00000
Name: 238559 X5 Instrument ID: GC04
Disc: DB1701, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP6::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Tetrachloro-m-xylene	9.32	1118	714545	17.46	ng/ml	100
~~2) #alpha-BHC~~	13.28	1594	14714	.452	ng/ml	100
~~3) #beta-BHC~~	18.55	2226	3720669	148.27	ng/ml	100
~~4) #delta-BHC~~	19.68	2362	785773	29.96	ng/ml	100
~~5) #gamma-BHC (Lindane)~~	15.39	1847	21091	.620	ng/ml	100
~~6) #Heptachlor~~	16.38	1966	231627	4.95	ng/ml	100
~~7) #Aldrin~~	17.44	2093	5721143	152.79	ng/ml	100
~~8) #Heptachlor epoxide~~	20.66	2479	148055	3.43	ng/ml	100
~~9) #Endosulfan I~~	21.71	2605	1396501	40.02	ng/ml	100
~~10) #Dieldrin~~	23.37	2804	1924271	59.96	ng/ml	100
~~11) #4,4'-DDE~~	22.71	2725	2873931	101.49	ng/ml	100
~~12) #Endrin~~	24.24	2909	12753232	439.19	ng/ml	100
~~13) #Endosulfan II~~	26.79	3215	960016	28.04	ng/ml	100
~~14) #4,4'-DDD~~	26.59	3190	19504328	1014.68	ng/ml	100
~~15) #Endosulfan Sulfate~~	30.54	3665	82582	3.01	ng/ml	100
~~16) #4,4'-DDT~~	27.41	3289	254845	14.58	ng/ml	100
~~17) #Methoxychlor~~	30.91	3709	1119879	83.66	ng/ml	100
~~18) #Endrin ketone~~	32.92	3950	796800	25.12	ng/ml	100
19) #Decachlorobiphenyl	38.67	4640	792571	17.28	ng/ml	100
~~20) #alpha-Chlordane~~ NT	22.21	2665	5030901	120.75	ng/ml	100
~~21) #gamma-Chlordane~~ NT	21.97	2636	765584	19.11	ng/ml	100
~~23) #Aroclor-1016(1)~~ NP	12.08	1450	664704	548.73	ng/ml	100
~~24) #Aroclor-1221(1)~~ NP	7.56	907	119090	155.79	ng/ml	100
~~25) #Aroclor-1232(1)~~ NP	7.56	907	120251	108.94	ng/ml	100
~~26) #Aroclor-1242(1)~~ NP	12.08	1450	664704	647.03	ng/ml	100
~~27) #Aroclor-1248(1)~~ NP	13.84	1661	263608	256.44	ng/ml	100
28) #Aroclor-1254(1)	17.44	2093	5674145	3578.64	ng/ml	100
~~29) #Aroclor-1260(1)~~ NP	23.76	2851	7816103	3149.71	ng/ml	100
~~30) #Endrin aldehyde~~ NT	28.92	3470	420999	13.09	ng/ml	100
~~31) #Toxaphene(2)~~ NT	28.41	3409	6239173	9214.22	ng/ml	100
~~32) #Toxaphene(3)~~ NT	30.23	3627	1072804	1988.94	ng/ml	100
~~33) #Toxaphene(4)~~ NT	31.70	3804	900712	1737.84	ng/ml	100
~~34) #Aroclor-1016(2)~~ NP	13.84	1661	263608	106.72	ng/ml	100
~~35) #Aroclor-1016(3)~~ NP	15.97	1917	2029331	504.99	ng/ml	100
~~36) #Aroclor-1016(4)~~ NP	16.53	1984	262208	176.53	ng/ml	100
~~37) #Aroclor-1016(5)~~ NP	18.55	2226	3720669	1904.14	ng/ml	100
~~38) #Aroclor-1221(2)~~ NP	10.98	1318	265447	407.26	ng/ml	100
~~39) #Aroclor-1221(3)~~ NP	12.08	1450	664704	392.01	ng/ml	100
~~40) #Aroclor-1232(2)~~ NP	12.08	1450	664704	585.39	ng/ml	100
~~41) #Aroclor-1232(3)~~ NP	13.84	1661	263608	264.14	ng/ml	100

NT
JMO
7/21/96

JMO 7/21/96

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960715 16:17
Output File: ^04349::GQ Injected at: 960715 15:21
Data File: >04349::G1 Dilution Factor: 1.00000
Name: 238559 X5 Instrument ID: GC04
Misc: DB1701, 30M X .53mm INST 58903; 1ul INJ

ID File: IDCAP6::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

Compound	R.T.	Scan#	Area	Conc	Units	q
~~42) #Aroclor-1232(4)~~ ND	15.97	1917	2029331	1246.50	ng/ml	100
~~43) #Aroclor-1242(2)~~ ND	13.84	1661	263608	136.33	ng/ml	100
~~44) #Aroclor-1242(3)~~ ND	15.97	1917	2029331	643.72	ng/ml	100
~~45) #Aroclor-1242(4)~~ ND	16.53	1984	262208	229.11	ng/ml	100
~~46) #Aroclor-1242(5)~~ ND	17.44	2093	5701248	6669.45	ng/ml	100
~~47) #Aroclor-1248(2)~~ ND	15.97	1917	2029331	751.34	ng/ml	100
~~48) #Aroclor-1248(3)~~ ND	18.55	2226	3720669	1537.16	ng/ml	100
~~49) #Aroclor-1248(4)~~ ND	18.98	2277	1638083	896.39	ng/ml	100
~~50) #Aroclor-1248(5)~~ ND	20.29	2435	9701408	8504.04	ng/ml	100
51) #Aroclor-1254(2)	20.29	2435	9701408	4514.93	ng/ml	100
52) #Aroclor-1254(3)	21.10	2532	8368353	4553.93	ng/ml	100
53) #Aroclor-1254(4)	23.06	2767	14643022	5636.59	ng/ml	100
54) #Aroclor-1254(5)	23.76	2851	7816103	5495.05	ng/ml	100
~~55) #Aroclor-1260(2)~~ ND	24.87	2984	8320643	2914.80	ng/ml	100
~~56) #Aroclor-1260(3)~~ ND	28.41	3409	6239173	3751.60	ng/ml	100
~~57) #Aroclor-1260(4)~~ ND	30.01	3601	3823894	893.94	ng/ml	100
~~58) #Aroclor-1260(5)~~ ND	31.99	3838	4506072	1634.79	ng/ml	100

Compound uses ESTD

7/21/96

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S11 DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Matrix: (soil/water) SOIL Lab Sample ID: 238559

Sample wt/vol: 30.7 (g/mL) G Lab File ID: 03332

% Moisture: 4. decanted: (Y/N) N Date Received: 06/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/03/96

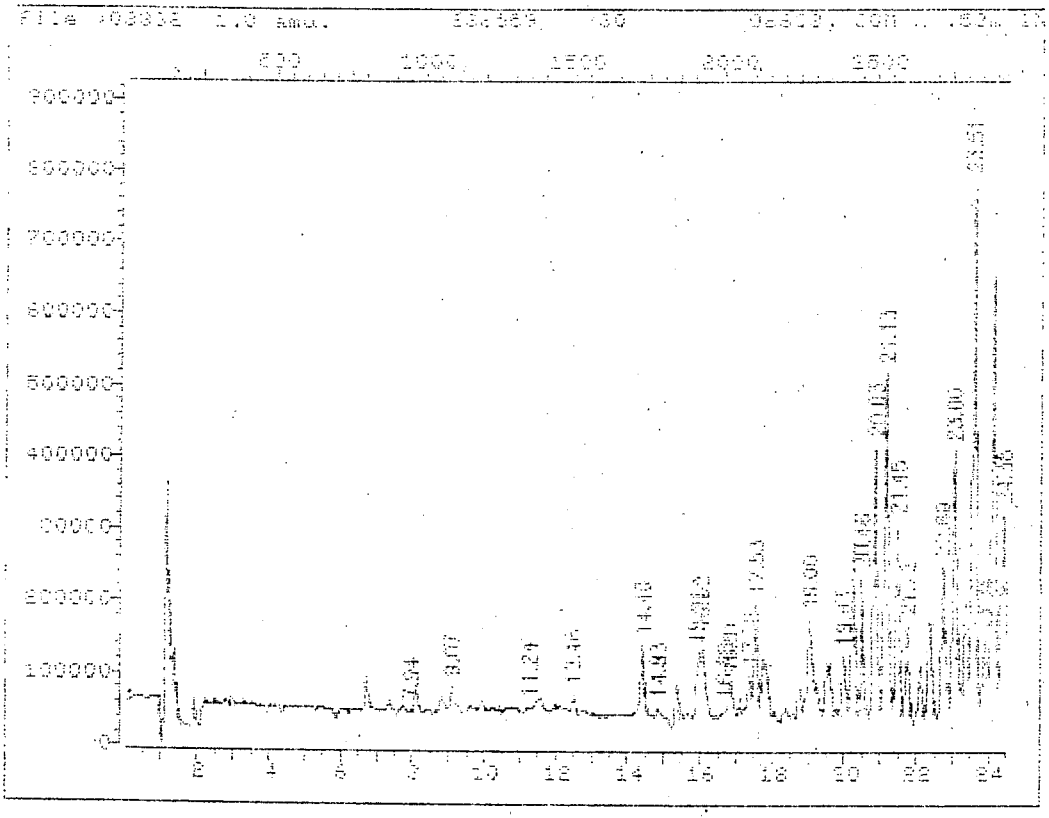
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/14/96

Injection Volume: 1.0 (uL) Dilution Factor: 30.0

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

Do not use these data

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	52.	U
319-85-7	beta-BHC	52.	U
319-86-8	delta-BHC	52.	U
58-89-9	gamma-BHC (Lindane)	52.	U
76-44-8	Heptachlor	52.	U
309-00-2	Aldrin	52.	U
1024-57-3	Heptachlor epoxide	52.	U
959-98-8	Endosulfan I	52.	U
60-57-1	Dieldrin	100.	U
72-55-9	4,4'-DDE	100.	U
72-20-8	Endrin	100.	U
33213-65-9	Endosulfan II	100.	U
72-54-8	4,4'-DDD	100.	U
1031-07-8	Endosulfan Sulfate	100.	U
50-29-3	4,4'-DDT	100.	U
72-43-5	Methoxychlor	520.	U
53494-70-5	Endrin ketone	100.	U
7421-93-4	Endrin aldehyde	100.	U
5103-71-9	alpha-Chlordane	52.	U
5103-74-2	gamma-Chlordane	52.	U
8001-35-2	Toxaphene	5200.	U
12674-11-2	Aroclor-1016	1000.	U
11104-28-2	Aroclor-1221	2100.	U
11141-16-5	Aroclor-1232	1000.	U
53469-21-9	Aroclor-1242	1000.	U
12672-29-6	Aroclor-1248	1000.	U
11097-69-1	Aroclor-1254	4900.	D P
11096-82-5	Aroclor-1260	1000.	U

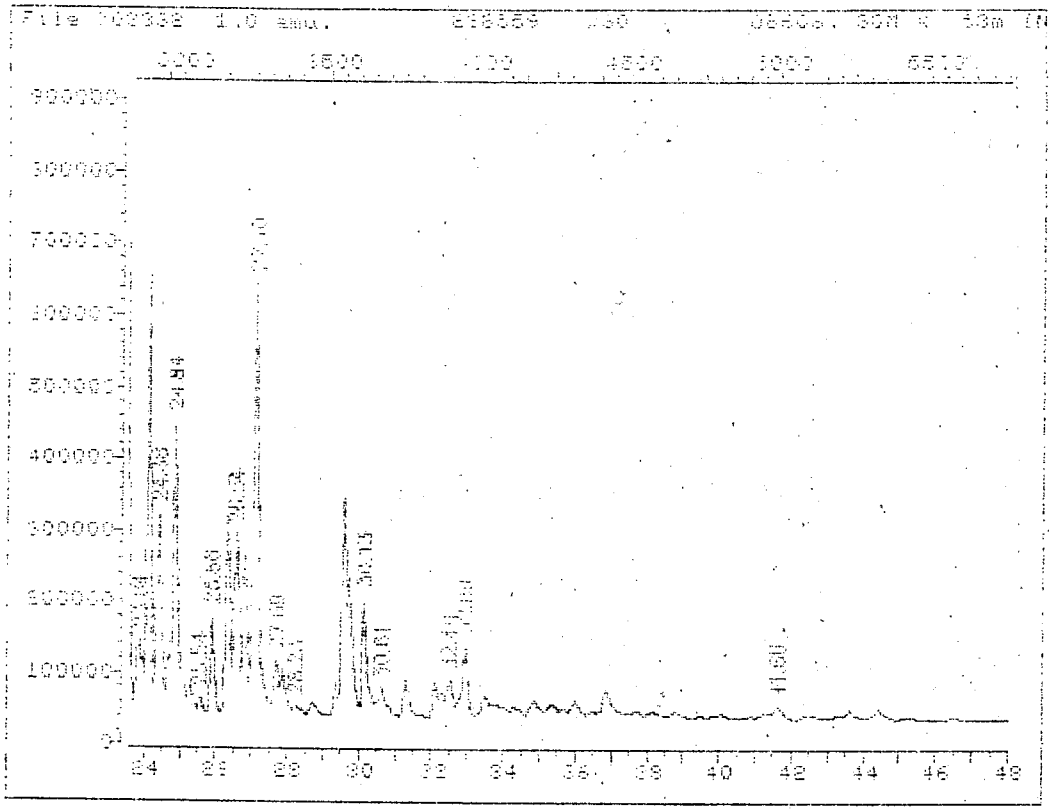


Data File: >03532::F3 Quant Output File: 03532::GQ
Name: 258559 x30 Instrument ID: GC05
Misc: 08602, 30M X .55m INST 80905, 1ul INJ

Id File: IDCAP5::SC
Title: Capillary Column 25 x08
Last Calibration: 941029 11:07 Last Cal Time: 960702 00:13

Operator ID: TRFIZ
Quant Time : 960715 00:39
Injected at: 960714 23:47

Page 1 of 2

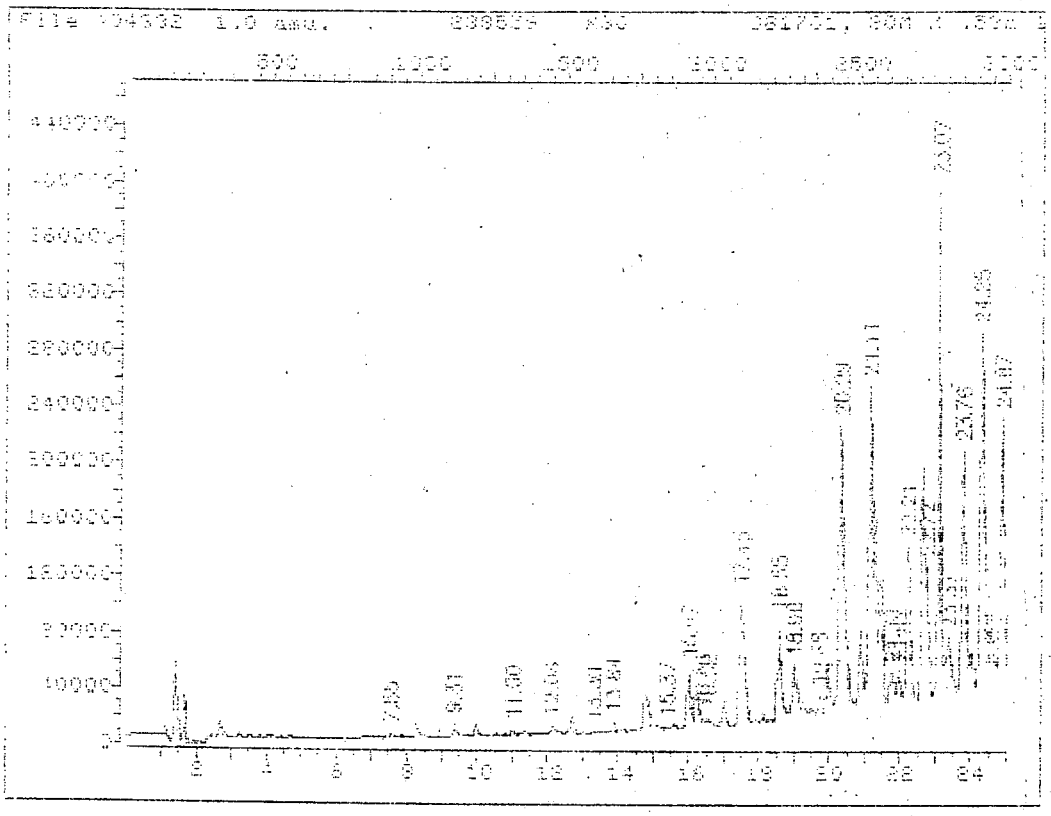


Data File: >03332::FT Quant Output File: ^03332::GQ
Name: 158559 x50 Instrument ID: GC03
Misc: 08605. 30M X .53m INST 58903. 1ul INC

Lib File: IDCAP5::SC
Title: Capillary Column DB-608
Last Calibration: 941029 10:07 Last Goal Time: To070Z 00:13

Operator ID: TRFII
Quant Time : 960715 00:58
Injected at: 960714 23:47

Page 2 of 2



Data File: 04532::G1 Quant Output File: 04532::QQ
Name: L38559 X30 Instrument ID: GC04
Misc: DB1701, 30M X .53m INST 55903, 1uT INJ

Id File: IDCRP6::SC
Title: Capillary Column DB1701
Last Calibration: 941029 13:07 Last Qua. Time: 960701 21:23

Operator ID: TRFIZ
Quant Time: 960715 00:40
Injected at: 960714 23:48

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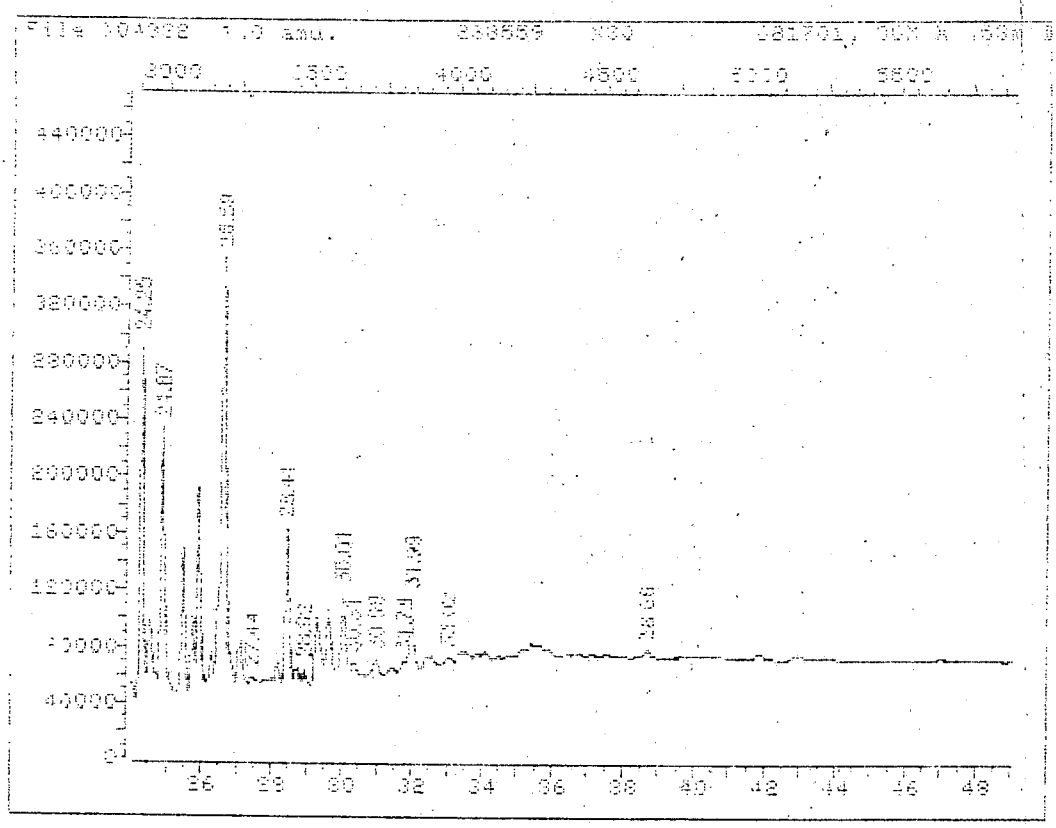

Data File: >04532::01 Quant Output File: 04532::GQ
Name: 238559 X30 Instrument ID: GC04
Misc: DB1701, 30M X .25m INST 58903, 1ul INJ

Id File: 1DCAP6::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Cal Time: 960701 21:23

Operator ID: TRFIZ
Quant Time : 960715 00:40
Injected at: 960714 23:48

Page 2 of 2

QUANT REPORT

Operator ID: TRFIZ Quant Rev: 7 Quant Time: 960715 09:12
Output File: 03352.D Injection at: 960714 23:47
Data File: >03352.D Dilution Factor: 1.00000
Sample: 236539 x50 Instrument ID: GC03
Direct 38608. 30M X .53m INST 38903. 1u1 ENJ.

SS11

ID File: ICCAP5.SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Scan Time: 960713 22:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.07	1088	221966	1.86	ng/ml	100
2)	#~~alpha-BHC~~	12.46	1495	173324	1.16	ng/ml	100
3)	#~~beta-BHC~~	14.83	1780	494525	6.05	ng/ml	100
4)	#~~delta-BHC~~	16.68	2002	74891	.582	ng/ml	100
5)	#~~gamma-BHC (Lindane)~~	14.40	1728	760952	5.49	ng/ml	100
6)	#~~Heptachlor~~	15.91	1909	530596	5.05	ng/ml	100
7)	#~~Aldrin~~	17.38	2085	211945	1.59	ng/ml	100
	#~~Heptachlor epoxide~~	19.93	2392	465[illegible]	3.89	ng/ml	100
	#~~Endosulfan-I~~	21.72	2606	895442	8.44	ng/ml	100
10)	#~~Dieldrin~~	23.00	2760	2649[illegible]	28.09	ng/ml	100
11)	#~~4,4'-DDE~~	22.69	2723	1557234	16.86	ng/ml	100
12)	#~~Endrin~~	24.84	2980	31894.[illegible]	36.49	ng/ml	100
13)	#~~Endosulfan II~~	25.86	3103	1001561	10.12	ng/ml	100
14)	#~~4,4'-DDD~~	25.54	3064	152506	2.47	ng/ml	100
15)	#~~Endosulfan Sulfate~~	28.23	3387	46884	.533	ng/ml	100
16)	#~~4,4'-DDT~~	27.10	3252	4574[illegible]	67.34	ng/ml	100
17)	#~~Methoxychlor~~	32.48	3897	323135	9.12	ng/ml	100
18)	#~~Endrin ketone~~	32.09	3946	1026[illegible]	11.09	ng/ml	100
19)	#Decachlorobiphenyl	41.60	4992	271169	2.34	ng/ml	100
20)	#~~alpha-Chlordane~~ UT	21.45	2574	1525439	13.49	ng/ml	100
21)	#~~gamma-Chlordane~~ UT	20.83	2499	1533409	20.95	ng/ml	100
22)	#~~Toxaphene(1)~~ UP	23.84	2861	862317	539.81	ng/ml	100
23)	#~~Aroclor-1016(1)~~ UP	12.46	1495	173324	60.67	ng/ml	100
24)	#~~Aroclor-1221(1)~~ UP	7.94	953	22651	26.35	ng/ml	100
25)	#~~Aroclor-1232(1)~~ UP	12.46	1495	173324	64.40	ng/ml	100
26)	#~~Aroclor-1242(1)~~ UP	12.46	1495	173324	71.43	ng/ml	100
27)	#~~Aroclor-1248(1)~~ UP	16.02	1923	812024	107.79	ng/ml	100
28)	#Aroclor-1254(1)	20.63	2499	2533409	509.24	ng/ml	100
29)	#~~Aroclor-1260(1)~~ UP	24.38	2926	2103197	528.53	ng/ml	100
30)	#~~Endrin aldehyde~~ UT	27.69	3323	53074[illegible]	6.56	ng/ml	100
31)	#~~Toxaphene(2)~~	27.69	3323	520274	311.26	ng/ml	100
32)	#~~Toxaphene(3)~~ UP	28.23	3387	46534	22.10	ng/ml	100
33)	#~~Toxaphene(4)~~	30.61	3673	559604	286.48	ng/ml	100
34)	#~~Aroclor-1016(2)~~	14.40	1728	760952	131.05	ng/ml	100
35)	#~~Aroclor-1016(3)~~	16.02	1923	812024	72.67	ng/ml	100
36)	#~~Aroclor-1016(4)~~ UP	16.81	2017	302534	78.58	ng/ml	100
37)	#~~Aroclor-1016(5)~~	19.00	2280	968995	286.49	ng/ml	100
38)	#~~Aroclor-1221(2)~~ UP	11.24	1349	65624	39.15	ng/ml	100
39)	#~~Aroclor-1221(3)~~ UP	12.46	1495	173324	46.75	ng/ml	100
40)	#~~Aroclor-1232(2)~~ UP	14.40	1728	760952	271.05	ng/ml	100

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7/16/96

QUANT REPORT

Operator ID: TRFIB Quant Rev: 7 Start Time: 960715 09:12
Output File: 103352.SG Injected at: 960714 23:47
Data File: 103352.FS Dilution Factor: 1.00000
Name: 14559 x30 Instrument ID: SC03
Misc: DB608, 30M x .53m INST 58903, 1ul INJ

ID File: IDCAPS.SC
Title: Capillary Column DB 608
Last Calibration: 941027 10:07 Last Qual Time: 960713 22:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
41)	#~~Aroclor-1232(3)~~ NP	16.02	1923	512024	173.99	ng/ml	100
42)	#~~Aroclor-1232(4)~~ NP	16.81	2017	302504	173.09	ng/ml	100
43)	#~~Aroclor-1242(2)~~	14.40	1728	760932	164.38	ng/ml	100
44)	#~~Aroclor-1242(3)~~	16.02	1923	512024	91.57	ng/ml	100
45)	#~~Aroclor-1242(4)~~ NP	16.81	2017	302504	91.38	ng/ml	100
46)	#~~Aroclor-1242(5)~~	19.00	2280	968995	331.25	ng/ml	100
47)	#~~Aroclor-1248(2)~~	17.53	2103	815449	255.39	ng/ml	100
48)	#~~Aroclor-1248(3)~~	19.00	2280	968995	235.44	ng/ml	100
	#~~Aroclor-1248(4)~~ NP	20.46	2455	1240059	301.87	ng/ml	100
	#~~Aroclor-1248(5)~~	21.72	2606	895442	204.46	ng/ml	100
51)	#Aroclor-1254(2)	21.13	2535	4401904	579.77	ng/ml	100
52)	#Aroclor-1254(3)	22.69	2723	1557264	843.05	ng/ml	100
53)	#Aroclor-1254(4)	23.51	2821	4917599	760.90	ng/ml	100
54)	#Aroclor-1254(5)	24.84	2980	3189416	872.74	ng/ml	100
55)	#~~Aroclor-1260(2)~~	24.84	2980	3189416	447.69	ng/ml	100
56)	#~~Aroclor-1260(3)~~	26.54	3184	1900068	412.75	ng/ml	100
57)	#~~Aroclor-1260(4)~~ NP	30.13	3615	1226320	111.96	ng/ml	100
58)	#~~Aroclor-1260(5)~~	32.89	3946	1028481	208.63	ng/ml	100

Compound uses ESTD

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7/16/96

QUANT REPORT

Operator ID: TFFIZ Quant Seq: 7 Quant Time: 960715 09:29
Output File: [illegible] Injected at: 960714 23:48
Data File: [illegible] Dilution Factor: 1.00000
Name: 2385[illegible] Instrument ID: GC04
Mise: DB1701, [illegible] X .53m INET [illegible], 1ul INJ

10 File: ICCA[illegible]SC
Title: Capillary Column DB170[illegible]
Last Calibration: 941029 1[illegible]:07 Last Scal Time: 960713 22:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.31	1117	86570	2.12	ng/ml	100
2)	#[illegible]	13.30	1596	5501	.169	ng/ml	100
3)	#[illegible]	28.55	2226	552470	22.02	ng/ml	100
4)	#[illegible]	19.62	2362	33345	3.18	ng/ml	100
5)	#[illegible]	15.37	1845	7025	.207	ng/ml	100
6)	#Heptachlor	16.38	1966	35093	.750	ng/ml	100
7)	#Aldrin	17.45	2094	930525	24.85	ng/ml	100
9)	#E-[illegible]	21.76	2611	170601	4.99	ng/ml	100
10)	#Dieldrin	23.37	2804	174961	5.45	ng/ml	100
11)	#4,4' DDE	22.72	2726	475473	16.79	ng/ml	100
12)	#Endrin	24.25	2910	1899756	65.42	ng/ml	100
13)	#Endosulfan II	26.59	3190	2468226	72.10	ng/ml	100
14)	#4,4' DDD	26.59	3190	2468226	128.41	ng/ml	100
16)	#4,4' DDT	27.44	3292	43417	2.48	ng/ml	100
17)	#Methoxychlor	30.98	3717	133991	10.01	ng/ml	100
18)	#Endrin ketone	33.02	3962	38665	2.16	ng/ml	100
19)	#Decachlorobiphenyl	38.66	4639	91569	2.00	ng/ml	100
20)	#[illegible]	22.21	2665	710055	17.04	ng/ml	100
21)	#[illegible]	21.97	2636	94148	2.35	ng/ml	100
23)	#[illegible]	12.08	1450	72102	59.52	ng/ml	100
24)	#[illegible]	7.55	906	14679	19.20	ng/ml	100
25)	#[illegible]	7.55	906	14679	15.30	ng/ml	100
26)	#[illegible]	12.08	1450	72102	70.19	ng/ml	100
27)	#[illegible]	13.84	1661	55122	53.62	ng/ml	100
28)	#Aroclor-1254(1)	17.45	2094	928535	585.62	ng/ml	100
29)	#[illegible]	23.76	2851	1216395	490.14	ng/ml	100
30)	#Endrin aldehyde	28.92	3470	82522	2.57	ng/ml	100
31)	#Toxaphene(2)	28.41	3409	782855	1156.16	ng/ml	100
32)	#Toxaphene(3)	30.51	3657	75706	140.36	ng/ml	100
33)	#Toxaphene(4)	31.74	3808	69810	134.69	ng/ml	100
34)	#[illegible]	13.84	1661	55122	22.51	ng/ml	100
35)	#[illegible]	15.97	1917	275518	68.31	ng/ml	100
36)	#Aroclor-1016(4)	16.52	1983	33430	22.51	ng/ml	100
37)	#Aroclor-1016(5)	18.95	2226	552470	282.74	ng/ml	100
38)	#Aroclor-1221(2)	11.00	1320	24848	38.12	ng/ml	100
39)	#Aroclor-1221(3)	12.08	1450	72102	42.52	ng/ml	100
40)	#Aroclor-1232(2)	12.08	1450	72102	63.50	ng/ml	100
41)	#Aroclor-1232(3)	13.84	1661	55122	55.23	ng/ml	100
42)	#Aroclor-1232(4)	15.97	1917	275318	169.11	ng/ml	100
43)	#Aroclor-1242(2)	13.84	1661	55122	28.51	ng/ml	100

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7/16/96

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960715 09:59
Output File: 104332.60 Injected at: 960714 23:48
Data File: >04332.61 Dilution Factor: 1.00000
Name: 128559 X30 Instrument ID: GC04
Misc: 081701, 30M .53m 1-1 58903, 1:1 INJ

ID File: 19CA96.SC
Title: Capillary Column 081701
Last Calibration: 941027 10:07 Last Cal Time: 960715 22:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
44)	~~#Aroclor-1242(3)~~	15.97	1917	275318	87.33	ng/ml	100
45)	~~#Aroclor-1242(4)~~	16.52	1983	34542	30.18	ng/ml	100
46)	~~#Aroclor-1242(5)~~	17.45	2094	908535	1086.22	ng/ml	100
47)	~~#Aroclor-1248(1)~~	15.97	1917	275318	101.33	ng/ml	100
48)	~~#Aroclor-1248(3)~~	18.55	2223	552470	228.25	ng/ml	100
49)	~~#Aroclor-1248(4)~~	18.98	2277	164443	100.93	ng/ml	100
50)	~~#Aroclor-1248(5)~~	20.29	2435	1453365	1274.01	ng/ml	100
51)	#Aroclor-1254(2)	20.29	2435	1453365	676.39	ng/ml	100
52)	#Aroclor-1254(3)	21.11	2533	1321994	719.41	ng/ml	100
53)	#Aroclor-1254(4)	23.07	2768	2404167	925.45	ng/ml	100
54)	#Aroclor-1254(5)	23.76	2851	1216305	855.11	ng/ml	100
55)	~~#Aroclor-1260(2)~~	24.87	2984	1356065	475.04	ng/ml	100
56)	~~#Aroclor-1260(3)~~	28.41	3409	780937	469.53	ng/ml	100
57)	~~#Aroclor-1260(4)~~	30.01	3601	480933	112.44	ng/ml	100
58)	~~#Aroclor-1260(5)~~	31.99	3839	476366	172.82	ng/ml	100

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Compounds uses ESTD

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7/16/96

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S12

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Matrix: (soil/water) SOIL Lab Sample ID: 238561

Sample wt/vol: 30.7 (g/mL) G Lab File ID: 03398

% Moisture: 7. decanted: (Y/N) N Date Received: 06/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/03/96

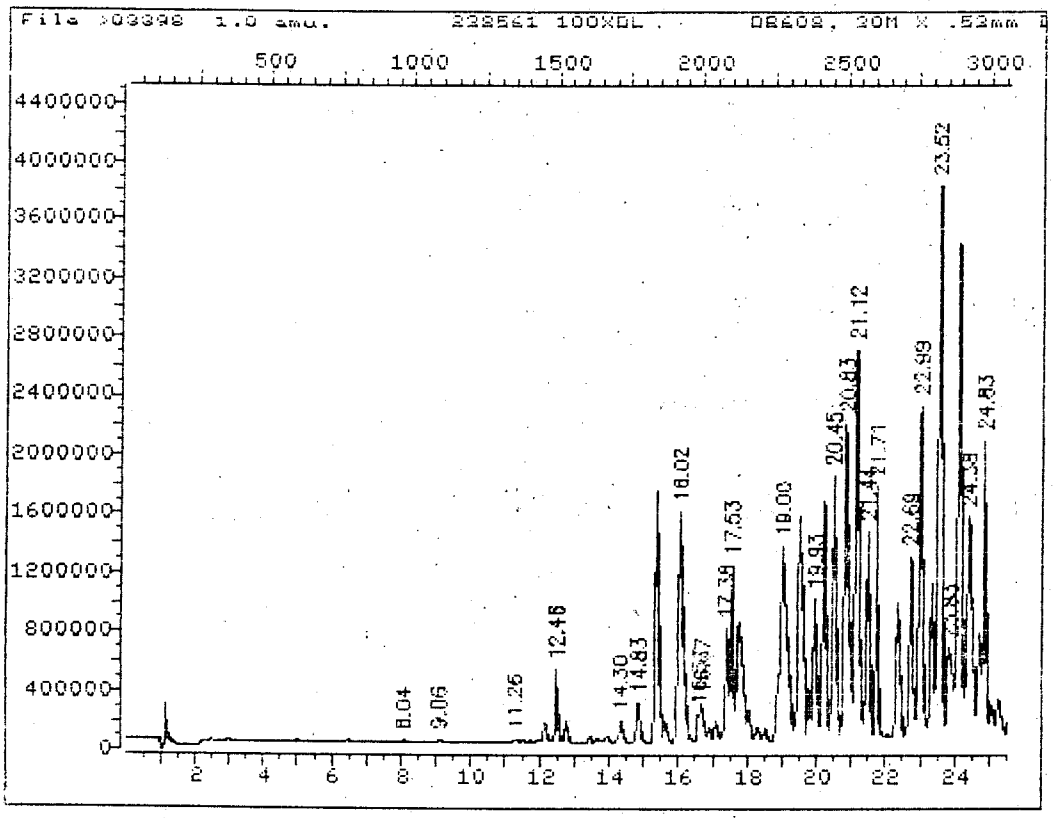
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/17/96

Injection Volume: 1.0 (uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

Do not use these data

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	180.	U
319-85-7	beta-BHC	180.	U
319-86-8	delta-BHC	180.	U
58-89-9	gamma-BHC (Lindane)	180.	U
76-44-8	Heptachlor	180.	U
309-00-2	Aldrin	180.	U
1024-57-3	Heptachlor epoxide	180.	U
959-98-8	Endosulfan I	180.	U
60-57-1	Dieldrin	350.	U
72-55-9	4,4'-DDE	350.	U
72-20-8	Endrin	350.	U
33213-65-9	Endosulfan II	350.	U
72-54-8	4,4'-DDD	350.	U
1031-07-8	Endosulfan Sulfate	350.	U
50-29-3	4,4'-DDT	350.	U
72-43-5	Methoxychlor	1800.	U
53494-70-5	Endrin ketone	350.	U
7421-93-4	Endrin aldehyde	350.	U
5103-71-9	alpha-Chlordane	180.	U
5103-74-2	gamma-Chlordane	180.	U
8001-35-2	Toxaphene	18000.	U
12674-11-2	Aroclor-1016	3500.	~~U~~ R
11104-28-2	Aroclor-1221	7000.	~~U~~ R
11141-16-5	Aroclor-1232	3500.	~~U~~ R
53469-21-9	Aroclor-1242	3500.	~~U~~ R
12672-29-6	Aroclor-1248	3500.	~~U~~ R
11097-69-1	Aroclor-1254	130000.	~~E~~ 4
11096-82-5	Aroclor-1260	3500.	~~U~~ R

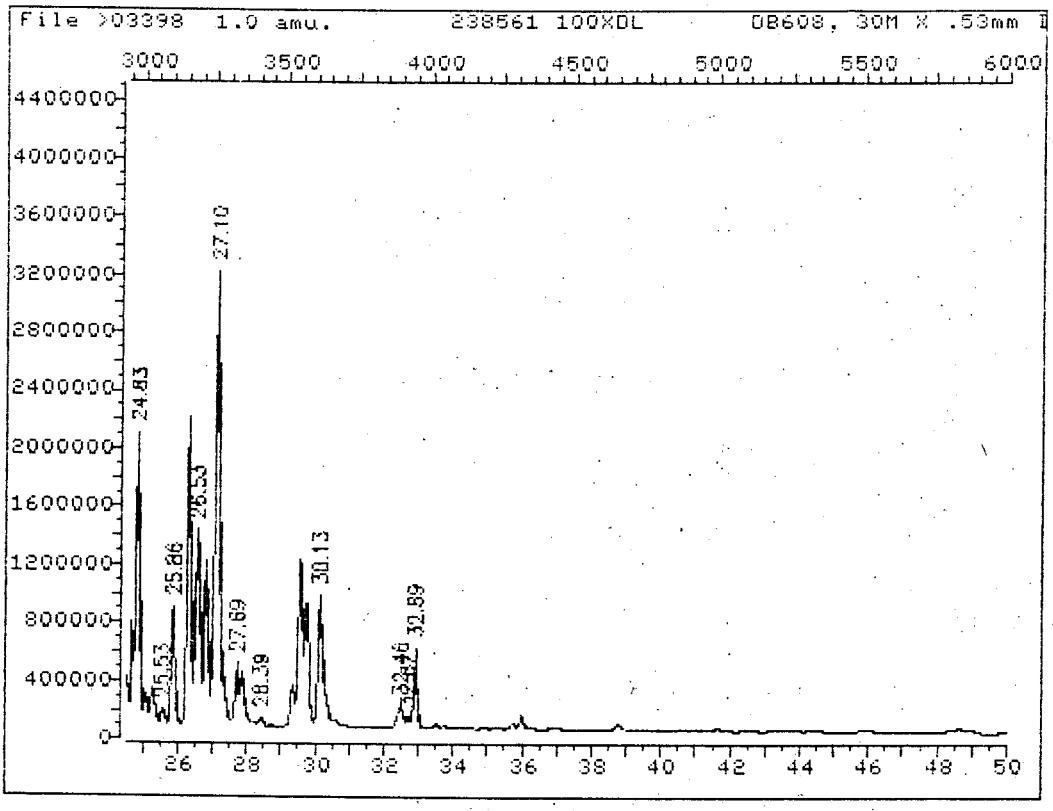


Data File: >03398::G2 Quant Output File: ^03398::GQ
Name: 238561 100XDL Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP5::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

Operator ID: TRFI2
Quant Time : 960717 14:30
Injected at: 960717 11:26

Page 1 of 2

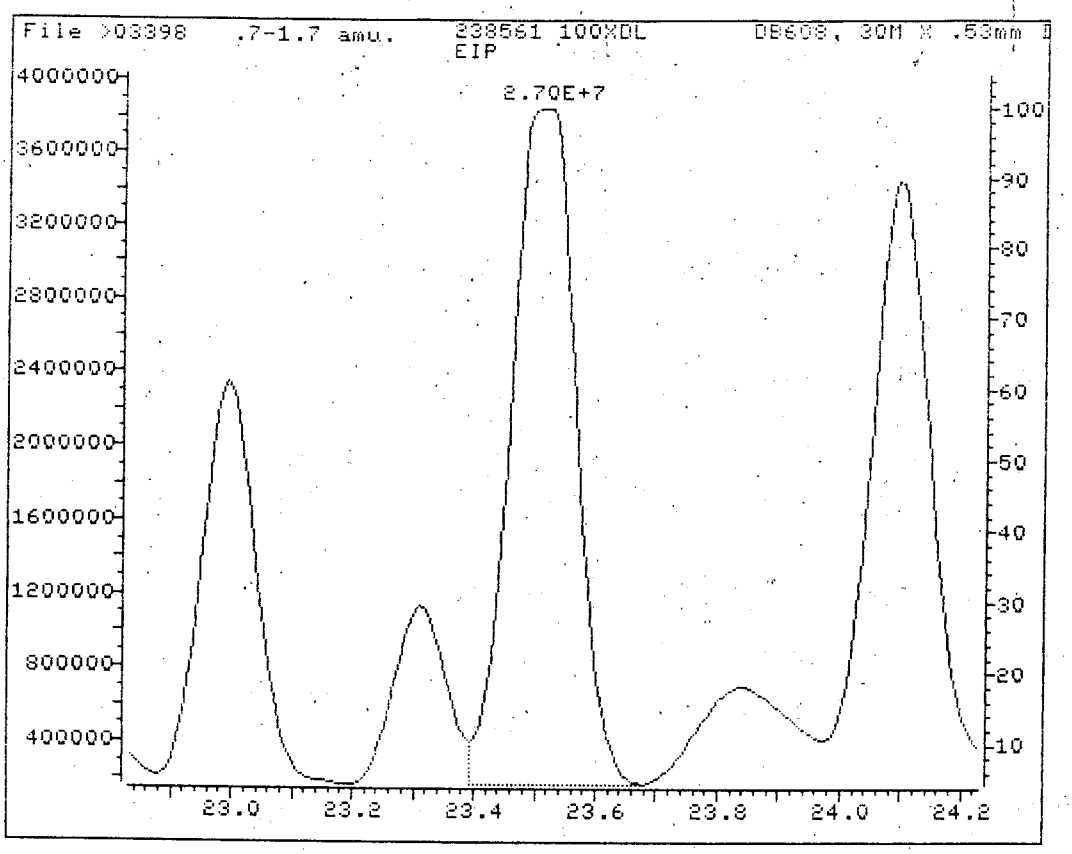


Data File: >03398::G2 Quant Output File: ^03398::GQ
Name: 238561 100XDL Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP5::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

Operator ID: TRFI2
Quant Time : 960717 14:30
Injected at: 960717 11:26

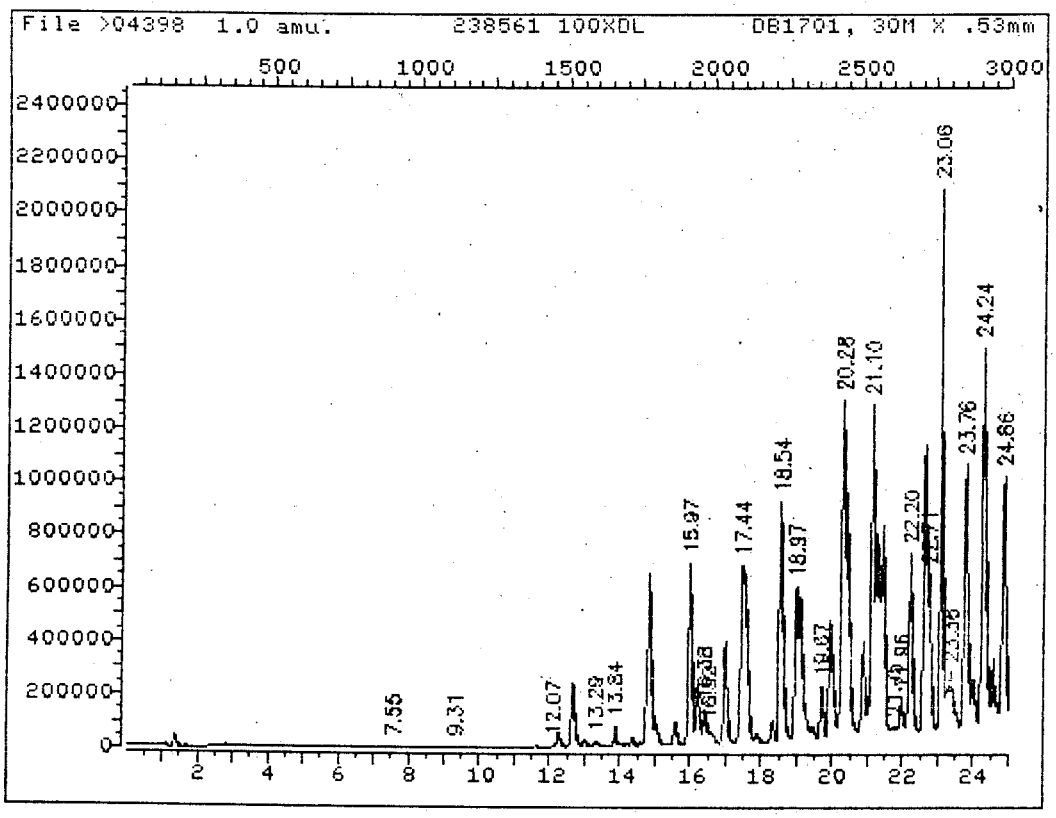
Page 2 of 2



Data File: >03398::G2 Quant Output File: ^03398::GQ
Name: 238561 100XDL Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ
Quant Time: 960717 14:30 Quant ID File: IDCAP5::SC
Injected at: 960717 11:26 Last Calibration: 941029 10:07

Compound No: 53
Compound Name: Aroclor-1254(4)
Scan Number: 2822
Retention Time: 23.52 min.
Quant Ion: 1.0
Area: 26998180M
Concentration: 4177.41 ng/ml

This report was produced by QAREA on: 960722 14:37

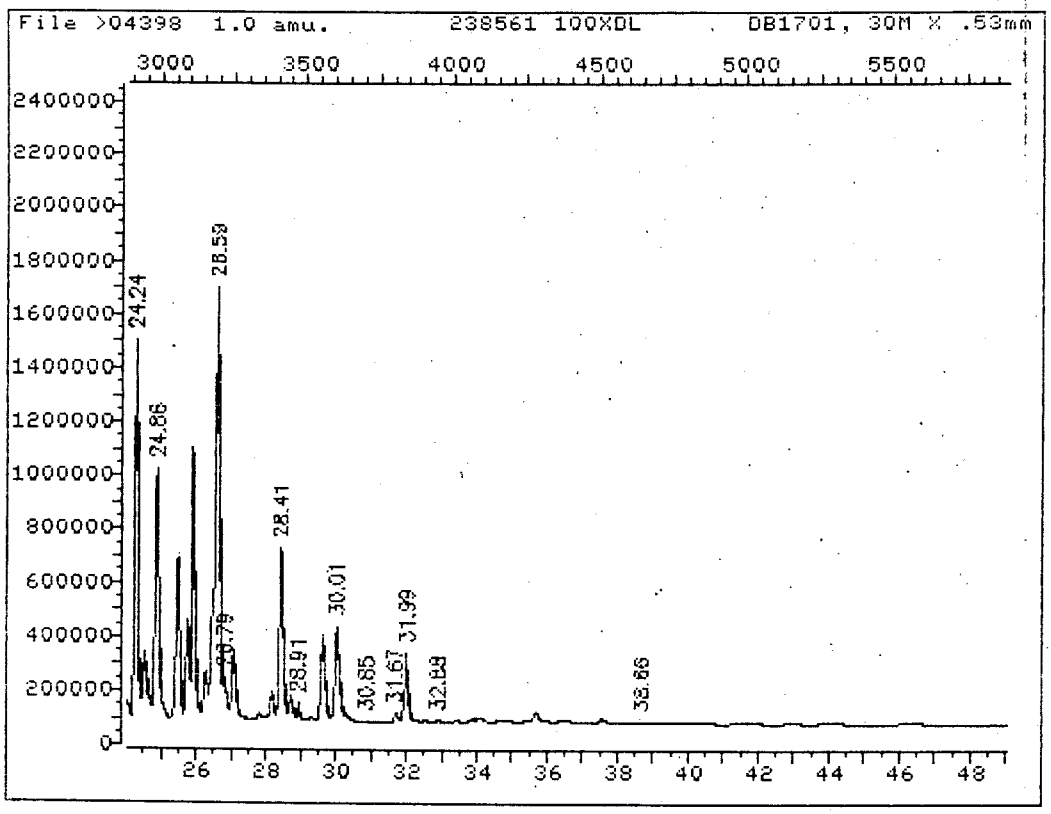


Data File: >04398::G4 Quant Output File: ^04398::GQ
Name: 238561 100XDL Instrument ID: GC04
Misc: DB1701, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP6::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

Operator ID: TRFI2
Quant Time : 960717 14:27
Injected at: 960717 11:26

Page 1 of 2



Data File: >04398::G4 Quant Output File: ^04398::GQ
Name: 238561 100XDL Instrument ID: GC04
Misc: DB1701, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP6::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

Operator ID: TRFI2
Quant Time : 960717 14:27
Injected at: 960717 11:26

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QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960717 14:30
Output File: ^03398::GQ Injected at: 960717 11:26
Data File: >03398::G2 Dilution Factor: 1.00000
Name: 238561 100XDL Instrument ID: GC03
Misc: DB608. 30M X .53mm INST 58903. 1ul INJ

S12

ID File: IDCAP5::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.06	1087	76532	.640	ng/ml	100
2)	~~#alpha-BHC~~	12.46	1495	2957427	19.84	ng/ml	100
3)	~~#beta-BHC~~	14.83	1780	1985507	24.27	ng/ml	100
4)	~~#delta-BHC~~	16.57	1989	866706	6.74	ng/ml	100
5)	~~#gamma-BHC (Lindane)~~	14.30	1716	1209714	8.73	ng/ml	100
6)	~~#Heptachlor~~	16.02	1923	14761948	140.51	ng/ml	100
7)	~~#Aldrin~~	17.38	2085	4471105	33.49	ng/ml	100
8)	~~#Heptachlor epoxide~~	19.93	2392	5595125	44.82	ng/ml	100
9)	~~#Endosulfan-I~~	21.71	2605	10118554	95.33	ng/ml	100
10)	~~#Dieldrin~~	22.99	2759	13537672	143.50	ng/ml	100
11)	~~#4,4'-DDE~~	22.69	2723	9688228	104.92	ng/ml	100
12)	~~#Endrin~~	24.83	2979	13282356	151.96	ng/ml	100
13)	~~#Endosulfan II~~	25.86	3103	5733919	57.94	ng/ml	100
14)	~~#4,4'-DDD~~	25.53	3063	690562	11.18	ng/ml	100
15)	~~#Endosulfan Sulfate~~	28.39	3407	433018	4.92	ng/ml	100
16)	~~#4,4'-DDT~~	27.10	3252	23438444	345.03	ng/ml	100
17)	~~#Methoxychlor~~	32.46	3895	1738621	43.70	ng/ml	100
18)	~~#Endrin ketone~~	32.67	3920	503337	5.43	ng/ml	100
20)	~~#alpha-Chlordane~~	21.44	2573	8631692	71.63	ng/ml	100
21)	~~#gamma-Chlordane~~	20.83	2499	14165158	117.15	ng/ml	100
22)	~~#Toxaphene(1)~~ NP	23.83	2860	5554669	3476.40	ng/ml	100
23)	~~#Aroclor 1016(1)~~ NP	12.46	1495	2957427	1035.21	ng/ml	100
24)	~~#Aroclor 1221(1)~~ NP	8.04	965	105140	122.29	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	12.46	1495	2957427	1098.81	ng/ml	100
26)	~~#Aroclor 1242(1)~~ NP	12.46	1495	2957427	1218.80	ng/ml	100
27)	~~#Aroclor 1248(1)~~ NP	16.02	1923	14773008	1960.97	ng/ml	100
28)	#Aroclor-1254(1)	20.83	2499	14165158	2847.31	ng/ml	100
29)	~~#Aroclor-1260(1)~~	24.38	2925	12119672	1893.15	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	27.69	3322	3472555	42.93	ng/ml	100
31)	~~#Toxaphene(2)~~ NP	27.69	3322	3467950	2074.72	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	28.39	3407	433018	204.16	ng/ml	100
34)	~~#Aroclor 1016(2)~~ NP	14.30	1716	1209714	208.34	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	16.02	1923	14773008	1321.99	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.67	2000	1308700	339.96	ng/ml	100
37)	~~#Aroclor 1016(5)~~ NP	19.00	2280	13738872	4061.95	ng/ml	100
38)	~~#Aroclor-1221(2)~~ NP	11.26	1351	114679	70.57	ng/ml	100
39)	~~#Aroclor-1221(3)~~ NP	12.46	1495	2957427	797.78	ng/ml	100
40)	~~#Aroclor-1232(2)~~ NP	14.30	1716	1209714	430.91	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	16.02	1923	14773008	3165.32	ng/ml	100
42)	~~#Aroclor 1232(4)~~ NP	16.67	2000	1308700	748.83	ng/ml	100

NT

E. Price
2/22/96

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960717 14:30
Output File: ^03398::GQ Injected at: 960717 11:26
Data File: >03398::G2 Dilution Factor: 1.00000
Name: 238561 100XDL Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP5::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
43)	~~#Aroclor-1242(2)~~	14.30	1716	1209714	261.33	ng/ml	100
44)	~~#Aroclor-1242(3)~~	16.02	1923	14773008	1665.90	ng/ml	100
45)	~~#Aroclor-1242(4)~~ UP	16.67	2000	1308700	395.32	ng/ml	100
46)	~~#Aroclor-1242(5)~~	19.00	2280	13738872	4696.62	ng/ml	100
47)	~~#Aroclor-1248(2)~~	17.53	2103	8033986	2516.15	ng/ml	100
48)	~~#Aroclor-1248(3)~~	19.00	2280	13738872	3338.18	ng/ml	100
49)	~~#Aroclor-1248(4)~~ UP	20.45	2454	11192532	2724.65	ng/ml	100
50)	~~#Aroclor-1248(5)~~	21.71	2605	10118554	2310.42	ng/ml	100
51)	#Aroclor-1254(2)	21.12	2534	17429784	2970.56	ng/ml	100
52)	#Aroclor-1254(3)	22.69	2723	9688228	5244.90	ng/ml	100
53)	#Aroclor-1254(4)	23.52	2822	26998180M	4177.41	ng/ml	
54)	#Aroclor-1254(5)	24.83	2979	13282356	3634.52	ng/ml	100
55)	~~#Aroclor-1260(2)~~	24.83	2979	13282356	1864.40	ng/ml	100
56)	~~#Aroclor-1260(3)~~	26.53	3183	10166364	2208.43	ng/ml	100
57)	~~#Aroclor-1260(4)~~ UP	30.13	3615	7230962	660.19	ng/ml	100
58)	~~#Aroclor-1260(5)~~	32.89	3946	4554760	923.95	ng/ml	100

Compound uses ESTD

EPrice
7/22/96

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960717 14:27
Output File: ^04398::GQ Injected at: 960717 11:26
Data File: >04398::G4 Dilution Factor: 1.00000
Name: 238561 100XDL Instrument ID: GC04
Misc: DB1701, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP6::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.31	1117	14110	.345	ng/ml	100
2)	~~#alpha-BHC~~	13.29	1595	128448	3.95	ng/ml	100
3)	~~#beta-BHC~~	18.54	2225	6542409	260.71	ng/ml	100
4)	~~#delta-BHC~~	19.67	2360	1084197	41.34	ng/ml	100
6)	~~#Heptachlor~~	16.38	1966	500355	10.70	ng/ml	100
7)	~~#Aldrin~~	17.44	2093	3762339	100.48	ng/ml	100
9)	~~#Endosulfan~~ I	21.75	2610	42040	1.20	ng/ml	100
10)	~~#Dieldrin~~	23.36	2803	849791	26.48	ng/ml	100
11)	~~#4,4'-DDE~~	22.71	2725	3152437	111.33	ng/ml	100
12)	~~#Endrin~~	24.24	2909	10224454	352.10	ng/ml	100
13)	~~#Endosulfan II~~	26.79	3214	846207	24.72	ng/ml	100
14)	~~#4,4'-DDD~~	26.59	3190	14330802	745.53	ng/ml	100
17)	~~#Methoxychlor~~	30.85	3702	11925	.891	ng/ml	100
18)	~~#Endrin ketone~~	32.88	3945	26713	.842	ng/ml	100
19)	#Decachlorobiphenyl	38.66	4639	49692	1.08	ng/ml	100
20)	~~#alpha-Chlordane~~ NT	22.20	2664	4376459	105.04	ng/ml	100
21)	~~#gamma-Chlordane~~ NT	21.96	2635	663915	16.57	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.07	1449	24823	20.49	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	7.55	906	8738	11.43	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	7.55	906	8738	7.92	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.07	1449	24823	24.16	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	13.84	1661	470005	457.23	ng/ml	100
28)	#Aroclor-1254(1)	17.44	2093	3762339	2372.88	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	23.76	2851	6844521	2758.19	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	28.91	3469	477488	14.85	ng/ml	100
31)	#T~~oxaphene~~(2) NP	28.41	3409	4607671	6804.77	ng/ml	100
33)	#T~~oxaphene~~(4) NP	31.67	3800	236788	456.86	ng/ml	100
34)	~~#Aroclor-1016(2)~~ NP	13.84	1661	470005	190.27	ng/ml	100
35)	~~#Aroclor-1016~~(3) NP	15.97	1916	4249343	1057.43	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.52	1982	64931	43.71	ng/ml	100
37)	~~#Aroclor-1016(5)~~ NP	18.54	2225	6542409	3348.23	ng/ml	100
39)	~~#Aroclor-1221(3)~~ NP	12.07	1449	24823	14.64	ng/ml	100
40)	~~#Aroclor-1232(2)~~ NP	12.07	1449	24823	21.86	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	13.84	1661	470005	470.96	ng/ml	100
42)	~~#Aroclor-1232(4)~~ NP	15.97	1916	4249343	2610.13	ng/ml	100
43)	~~#Aroclor-1242(2)~~ NP	13.84	1661	470005	243.07	ng/ml	100
44)	~~#Aroclor-1242(3)~~ NP	15.97	1916	4249343	1347.93	ng/ml	100
45)	~~#Aroclor-1242(4)~~ NP	16.52	1982	62671	54.76	ng/ml	100
46)	~~#Aroclor-1242(5)~~ NP	17.44	2093	3762339	4401.27	ng/ml	100
47)	~~#Aroclor-1248(2)~~ NP	15.97	1916	4249343	1573.28	ng/ml	100

EPuu
7/22/96

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960717 14:27
Output File: ^04398::GQ Injected at: 960717 11:26
Data File: >04398::G4 Dilution Factor: 1.00000
Name: 238561 100XDL Instrument ID: GC04
Misc: DB1701, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP6::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
48)	~~#Aroclor-1248(3)~~ NP	18.54	2225	6542409	2702.93	ng/ml	100
49)	~~#Aroclor-1248(4)~~ NP	18.97	2276	3328101	1821.19	ng/ml	100
50)	~~#Aroclor-1248(5)~~ NP	20.28	2434	8126562	7123.56	ng/ml	100
51)	#Aroclor-1254(2)	20.28	2434	8126562	3782.01	ng/ml	100
52)	#Aroclor-1254(3)	21.10	2532	7371862	4011.66	ng/ml	100
53)	#Aroclor-1254(4)	23.06	2767	13032662	5016.71	ng/ml	100
54)	#Aroclor-1254(5)	23.76	2851	6844521	4811.99	ng/ml	100
55)	~~#Aroclor-1260(2)~~ NP	24.86	2983	6738095	2360.42	ng/ml	100
56)	~~#Aroclor-1260(3)~~ NP	28.41	3409	4616877	2776.12	ng/ml	100
57)	~~#Aroclor-1260(4)~~ NP	30.01	3601	3134032	732.67	ng/ml	100
58)	~~#Aroclor-1260(5)~~ NP	31.99	3839	2391232	867.53	ng/ml	100

Compound uses ESTD

E Price
7/22/96

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S12 α

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Matrix: (soil/water) SOIL Lab Sample ID: 238561

Sample wt/vol: 30.7 (g/mL) G Lab File ID: 03317

% Moisture: 7. decanted: (Y/N) N Date Received: 06/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/03/96

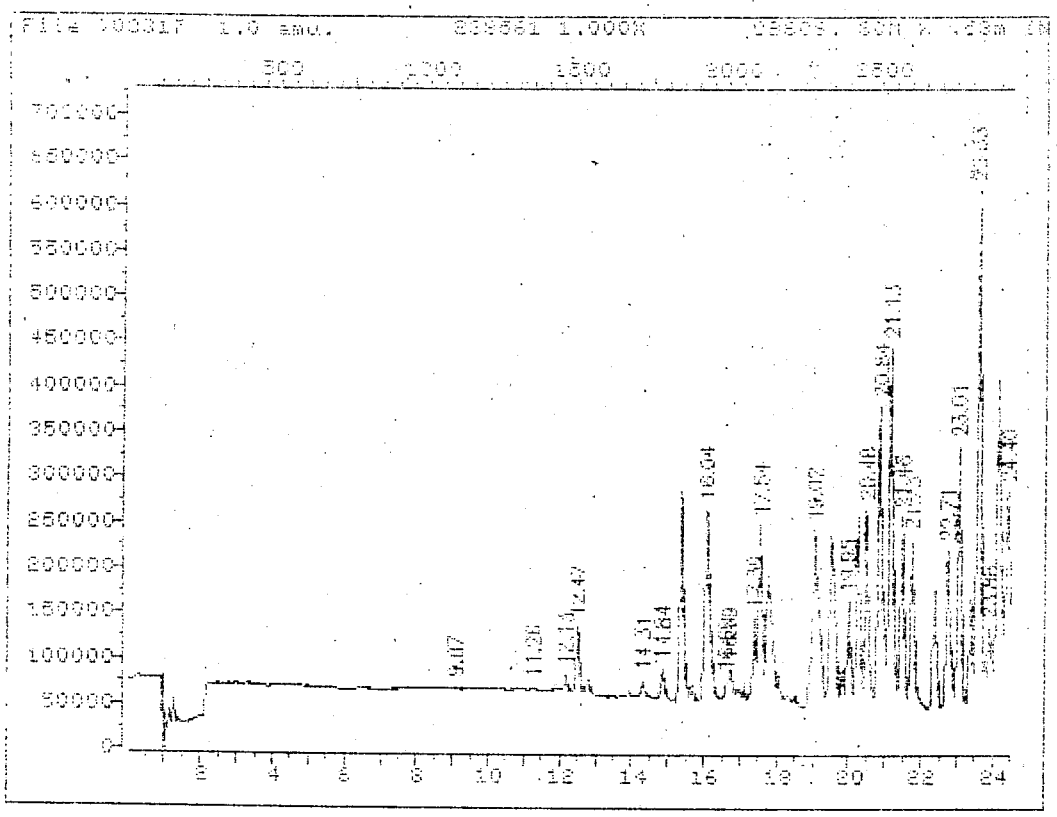
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/14/96

Injection Volume: 1.0 (uL) Dilution Factor: 1000.0

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

Use these data.

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1800.	U
319-85-7	beta-BHC	1800.	U
319-86-8	delta-BHC	1800.	U
58-89-9	gamma-BHC (Lindane)	1800.	U
76-44-8	Heptachlor	1800.	U
309-00-2	Aldrin	1800.	U
1024-57-3	Heptachlor epoxide	1800.	U
959-98-8	Endosulfan I	1800.	U
60-57-1	Dieldrin	3500.	U
72-55-9	4,4'-DDE	3500.	U
72-20-8	Endrin	3500.	U
33213-65-9	Endosulfan II	3500.	U
72-54-8	4,4'-DDD	3500.	U
1031-07-8	Endosulfan Sulfate	3500.	U
50-29-3	4,4'-DDT	3500.	U
72-43-5	Methoxychlor	18000.	U
53494-70-5	Endrin ketone	3500.	U
7421-93-4	Endrin aldehyde	3500.	U
5103-71-9	alpha-Chlordane	1800.	U
5103-74-2	gamma-Chlordane	1800.	U
8001-35-2	Toxaphene	180000.	U
12674-11-2	Aroclor-1016	35000.	U
11104-28-2	Aroclor-1221	70000.	U
11141-16-5	Aroclor-1232	35000.	U
53469-21-9	Aroclor-1242	35000.	U
12672-29-6	Aroclor-1248	35000.	U
11097-69-1	Aroclor-1254	190000.	D
11096-82-5	Aroclor-1260	35000.	U



Data File: >03517::F3 Quant Output File: `03517::GQ
Name: 238561 1,000X Instrument ID: GC03
Misc: DB608, 30M X .53m INST 58903, 1ul INJ

Id File: IDCAP5::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qual Time: 960702 00:13

Operator ID: TRFIZ
Quant Time : 960714 13:16
Injected at: 960714 09:51

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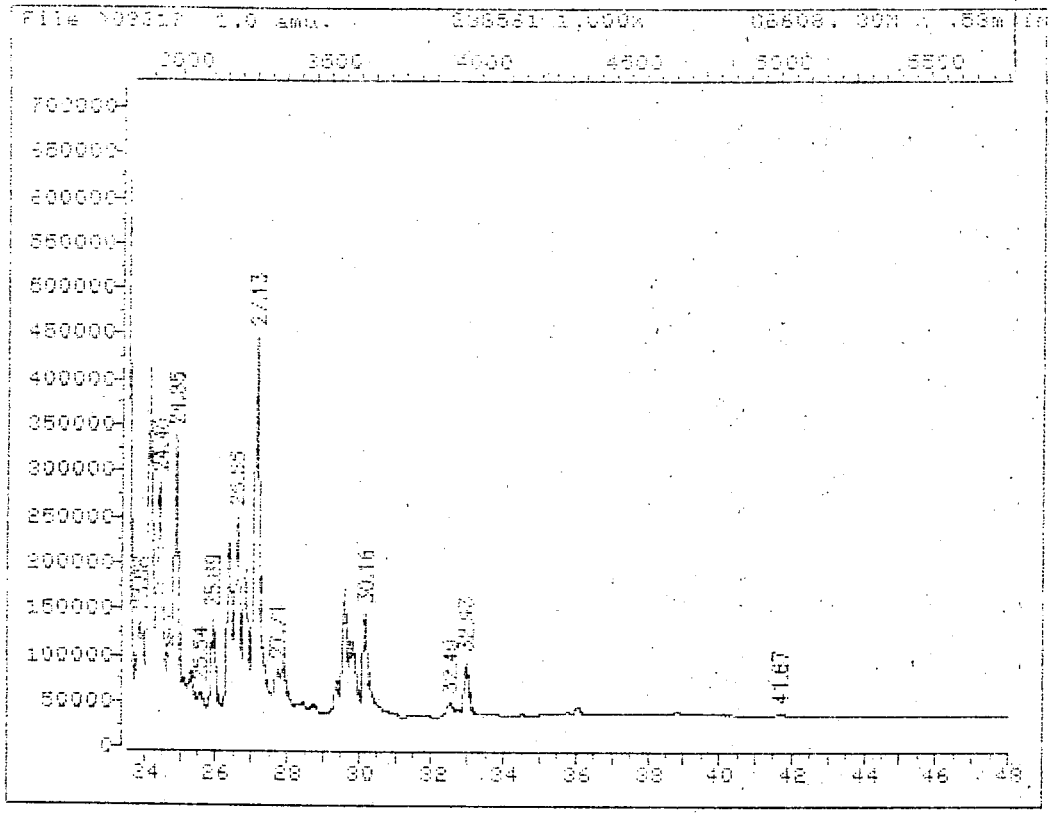

Data File: >03317::F5 Quant Output File: ^03317::GQ
Name: 238561 1.000X Instrument ID: GC03
Misc: DB608. 30M X .53m INST 58903. 1ul INJ

Id File: IDCAP5::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qual Time: 960702 00:13

Operator ID: TRFIZ
Quant Time : 960714 13:16
Injected at: 960714 09:51

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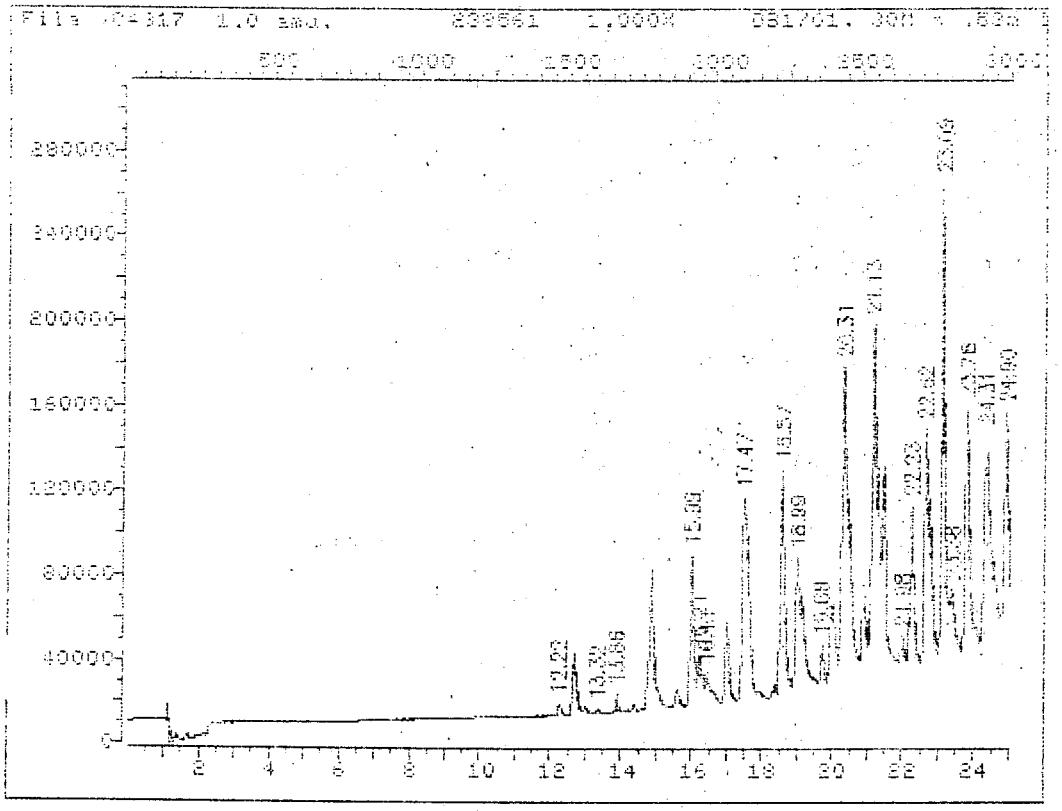
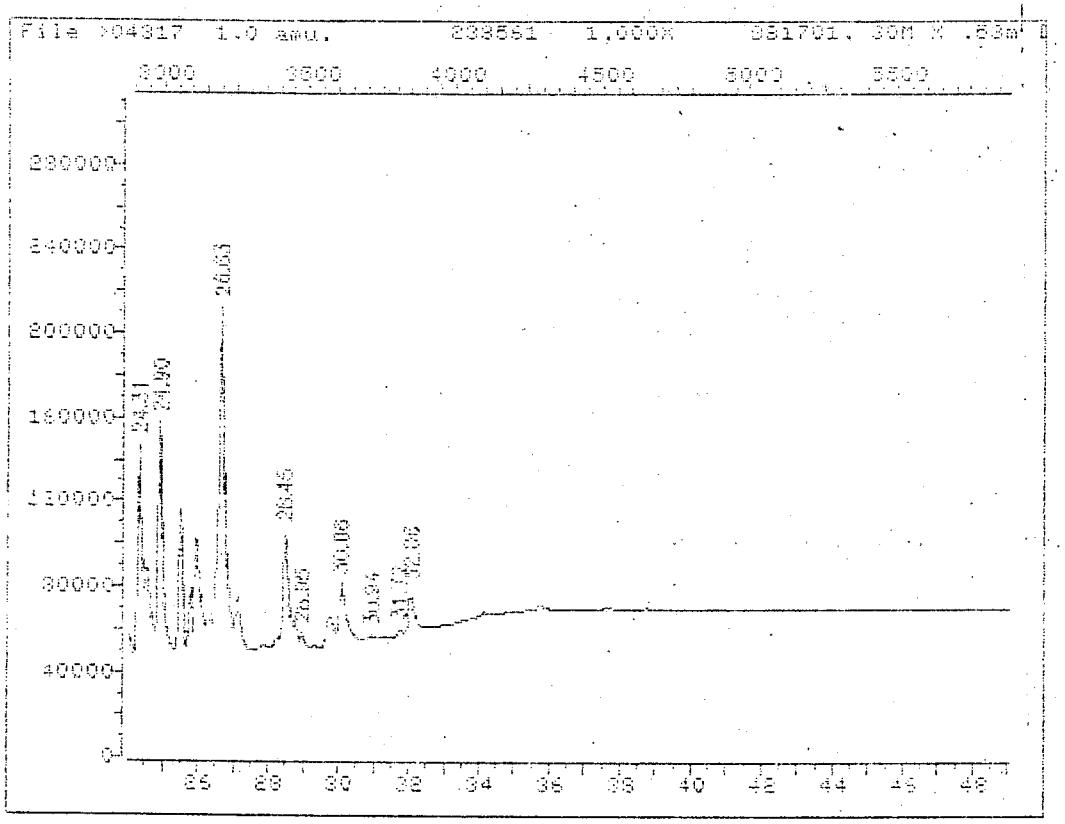


Data File: >04317::G1 Quant Output File: ^04317::GQ
Name: 138561 1,000X Instrument ID: GC04
Misc: DB1701, 30M X .53m INST 58903, 1ul INJ

Id File: IDCAP6::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qual Time: P60701 21:23

Operator ID: TRFIZ
Quant Time : 960714 13:20
Injected at: 960714 09:51

Page 1 of 2



Data File: >04517::G1 Quant Output File: ^04517::GQ
Name: 238561 1.000X Instrument ID: >GC04
Misc: DB1701, 30M X .53m INST 5890C, 1ul INJ

Id File: IDCAP6::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Eval Time: 960701 21:23

Operator ID: TRFI2
Quant Time : 960714 13:20
Injected at: 960714 09:51

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QUANT REPORT

Operator ID: TRFIZ Quant Rev: 7 Quant Time: 960715 09:00
Method File: 103517.M5 Injected at: 960714 09:51
Data File: 103517.F5 Dilution Factor: 1.00000
Vol: 038562 1.000X Instrument ID: GC09
Misc: DB608, 30M X .53m INRT 53703, 1ul INJ

ID File: IDCAP5.M5
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qual Time: 960713 22:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.07	1088	10851	.0907	ng/ml	100
2)	#~~alpha-BHC~~	12.47	1497	451730	2.90	ng/ml	100
3)	#~~beta-BHC~~	14.84	1781	275322	5.37	ng/ml	100
4)	#~~delta-BHC~~	16.60	1992	79373	.617	ng/ml	100
5)	#~~gamma-BHC (Lindane)~~	14.31	1717	143368	1.05	ng/ml	100
6)	#~~Heptachlor~~	16.04	1925	2028671	19.51	ng/ml	100
7)	#~~Aldrin~~	17.59	2087	525839	3.94	ng/ml	100
8)	#~~Heptachlor epoxide~~	19.95	2394	642676	5.15	ng/ml	100
9)	#~~Endosulfan~~ I	21.73	2608	1374609	12.95	ng/ml	100
10)	#~~Dieldrin~~	23.01	2761	1842923	19.54	ng/ml	100
11)	#~~4,4'-DDE~~	22.71	2725	1340498	14.52	ng/ml	100
12)	#~~Endrin~~	24.85	2982	1912086	21.88	ng/ml	100
13)	#~~Endosulfan~~ II	25.89	3106	715779	7.23	ng/ml	100
14)	#~~4,4'-DDD~~	25.54	3065	130940	2.12	ng/ml	100
16)	#~~4,4'-DDT~~	27.13	3255	3923557	57.76	ng/ml	100
17)	#~~Methoxychlor~~	32.49	3899	230891	5.80	ng/ml	100
18)	#~~Endrin ketone~~	32.93	3951	533293	9.75	ng/ml	100
19)	#Decachlorobiphenyl	41.67	5000	5062	.0438	ng/ml	100
20)	#~~alpha-Chlordane~~ NT	21.46	2575	1272313	10.56	ng/ml	100
21)	#~~gamma-Chlordane~~ NT	20.84	2501	2115341	17.48	ng/ml	100
22)	#~~Toxaphene(1)~~ NP	23.58	2865	591759	370.35	ng/ml	100
23)	#~~Aroclor-1016(1)~~ NP	12.13	1456	85583	29.96	ng/ml	100
25)	#~~Aroclor-1232(1)~~ NP	12.13	1456	85583	31.80	ng/ml	100
26)	#~~Aroclor-1242(1)~~ NP	12.13	1456	85583	35.27	ng/ml	100
27)	#~~Aroclor-1248(1)~~ ND	16.04	1925	2029538	269.40	ng/ml	100
28)	#Aroclor-1254(1)	20.84	2501	2115341	424.80	ng/ml	100
29)	#~~Aroclor-1260(1)~~ ND	24.40	2928	1944922	303.81	ng/ml	100
30)	#~~Endrin aldehyde~~ NT	27.71	3325	361974	4.47	ng/ml	100
31)	#~~Toxaphene(2)~~ NP	27.71	3325	361974	216.55	ng/ml	100
34)	#~~Aroclor-1016(2)~~	14.31	1717	146780	25.28	ng/ml	100
35)	#~~Aroclor-1016(3)~~	16.04	1925	2029538	181.62	ng/ml	100
36)	#~~Aroclor-1016(4)~~ NP	16.69	2003	166730	45.31	ng/ml	100
37)	#~~Aroclor-1016(5)~~	19.02	2282	2460907	727.58	ng/ml	100
38)	#~~Aroclor-1221(2)~~ NP	11.26	1351	6240	3.84	ng/ml	100
39)	#~~Aroclor-1221(3)~~ NP	12.13	1456	85583	23.09	ng/ml	100
40)	#~~Aroclor-1232(2)~~	14.31	1717	146780	52.28	ng/ml	100
41)	#~~Aroclor-1232(3)~~ NP	16.04	1925	2029538	434.86	ng/ml	100
42)	#~~Aroclor-1232(4)~~	16.69	2003	166730	95.40	ng/ml	100
43)	#~~Aroclor-1242(2)~~ ND	14.31	1717	146780	31.71	ng/ml	100
44)	#~~Aroclor-1242(3)~~ ND	16.04	1925	2029538	228.66	ng/ml	100

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EPM
2/15/96

QUANT REPORT

Operator ID: TRFIZ Quant Rev: 7 Quant Time: 960715 09:00
Output File: 03517.QG Injected at: 960714 09:51
Data File: >0351[illegible].F3 Dilution Factor: 1.00000
Name: 238561 1.000X Instrument ID: GC05
Misc: DB608, 30M X .53m INST,08905, 1ul INJ

ID File: IDCAP5.SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Cal Time: 960713 22:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
45)	#~~Aroclor-1242~~(4) UP	16.69	2005	166730	50.36	ng/ml	100
46)	#~~Aroclor-1242~~(5) NP	19.02	2282	2460[illegible]	841.36	ng/ml	100
47)	#~~Aroclor-1248~~(2)	17.54	2105	1277368	400.24	ng/ml	100
48)	#~~Aroclor-1248~~(5)	19.02	2282	2460[illegible]	597.93	ng/ml	100
49)	#~~Aroclor-1248~~(4) NP	20.48	2457	1443990	351.52	ng/ml	100
50)	#~~Aroclor-1248~~(5)	21.73	2608	1374609	313.87	ng/ml	100
51)	#Aroclor-1254(2)	21.13	2536	2724221	464.29	ng/ml	100
52)	#Aroclor-1254(5)	22.71	2725	1340499	725.70	ng/ml	100
53)	#Aroclor-1254(4)	23.53	2823	3741052	578.85	ng/ml	100
54)	#Aroclor-1254(5)	24.85	2982	1912086	523.21	ng/ml	100
55)	#~~Aroclor-1260~~(2)	24.85	2982	1912086	268.39	ng/ml	100
56)	#~~Aroclor-1260~~(3)	26.55	3186	1451342	315.28	ng/ml	100
57)	#~~Aroclor-1260~~(4) NP	30.16	3619	1228179	112.13	ng/ml	100
58)	#~~Aroclor-1260~~(5)	32.93	3951	533293	108.18	ng/ml	100

Compound uses ESTD

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7/15/96

RUN REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960715 09:26
Output File: ^04317::GC Injection at: 960714 09:51
Data File: ^04317::G1 Dilution Factor: 1.00000
Name: 23356: 1.00% Instrument ID: GC04
Misc: DB1701, 30M X .53m INST 58705, 1ul INJ

ID File: IDCAP5::GC
Title: Capillary Column DB1701
Last Calibration: 941027 10:07 Last Qcal Time: 960715 22:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
2)	~~#alpha-BHC~~	13.32	1598	13926	.428	ng/ml	100
3)	~~#beta-BHC~~	18.57	2228	865070	34.47	ng/ml	100
4)	~~#delta-BHC~~	19.68	2362	105706	4.03	ng/ml	100
6)	~~#Heptachlor~~	16.21	1945	131735	2.82	ng/ml	100
7)	~~#Aldrin~~	17.47	2096	590932	15.78	ng/ml	100
10)	~~#Dieldrin~~	23.58	2806	216955	6.76	ng/ml	100
11)	~~#4,4'-DDE~~	22.62	2714	709054	25.04	ng/ml	100
12)	~~#Endrin~~	24.51	2917	1017735	35.05	ng/ml	100
13)	~~#Endosulfan II~~	26.63	3195	1715436	50.11	ng/ml	100
14)	~~#4,4'-DDD~~	26.63	3195	1715826	89.26	ng/ml	100
17)	~~#Methoxychlor~~	30.94	3712	24564	1.84	ng/ml	100
20)	~~#alpha-Chlordane~~	22.23	2668	516298	12.39	ng/ml	100
21)	~~#gamma-Chlordane~~	21.98	2638	64556	1.61	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.22	1467	31772	26.23	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.22	1467	31772	30.93	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	13.86	1663	53973	52.51	ng/ml	100
28)	#Aroclor-1254(1)	17.47	2096	590932	372.70	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	23.78	2854	869141	350.24	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	26.95	3474	52471	1.63	ng/ml	100
31)	~~#Toxaphene(2)~~ NP	28.45	3414	438557	647.68	ng/ml	100
33)	~~#Toxaphene(4)~~ NP	31.72	3806	31029	59.87	ng/ml	100
34)	~~#Aroclor-1016(2)~~	13.86	1663	53973	21.85	ng/ml	100
35)	~~#Aroclor-1016(3)~~	15.99	1919	492427	122.54	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.41	1969	47683	32.10	ng/ml	100
37)	~~#Aroclor-1016(5)~~	18.57	2228	865070	442.72	ng/ml	100
39)	~~#Aroclor-1221(1)~~ NP	12.22	1467	31772	18.74	ng/ml	100
40)	~~#Aroclor-1232(2)~~	12.22	1467	31772	27.98	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	13.86	1663	53973	54.08	ng/ml	100
42)	~~#Aroclor-1232(4)~~	15.99	1919	492427	302.47	ng/ml	100
43)	~~#Aroclor-1242(2)~~	13.86	1663	53973	27.91	ng/ml	100
44)	~~#Aroclor-1242(3)~~	15.99	1919	492427	156.20	ng/ml	100
45)	~~#Aroclor-1242(4)~~ NP	16.41	1969	47673	41.66	ng/ml	100
46)	~~#Aroclor-1242(5)~~	17.47	2096	590932	691.29	ng/ml	100
47)	~~#Aroclor-1248(2)~~	15.99	1919	492427	182.32	ng/ml	100
48)	~~#Aroclor-1248(3)~~	18.57	2225	865070	357.39	ng/ml	100
49)	~~#Aroclor-1248(4)~~ NP	18.99	1279	378850	207.31	ng/ml	100
50)	~~#Aroclor-1248(5)~~	20.31	2437	1033907	906.30	ng/ml	100
51)	#Aroclor-1254(2)	20.31	2437	1033907	481.17	ng/ml	100
52)	#Aroclor-1254(3)	21.13	2535	1002172	545.37	ng/ml	100
53)	#Aroclor-1254(4)	23.09	2771	1730955	666.30	ng/ml	100

NT

EPW
7/16/96

QUANT REPORT

Operator ID: [illegible]
Scan Seq: 7 Scans Time: 960715 09:26
Output File: [illegible]
Injected at: 960714 09:51
Data File: [illegible]
Dilution Factor: 1.00000
Name: [illegible]
Instrument ID: ECD4
Size: [illegible] 30M .55m [illegible] 98909. 1ul INJ

ID Time: [illegible]
Title: Capillary Column [illegible]
Last Calibration: 941017 10:07 Last Cal Time: 960715 22:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
54)	[illegible]	23.73	2854	869141	611.04	ng/ml	100
55)	#[illegible]	24.90	2980	932102	326.52	ng/ml	100
56)	[illegible]	28.45	3414	438557	263.70	ng/ml	100
57)	[illegible]	30.06	3607	391201	91.45	ng/ml	100
58)	#[illegible]	32.06	3847	275204	99.12	ng/ml	100

Compound uses ESTD

yes EP

NP

EPmc
7/16/96

QUANT REPORT

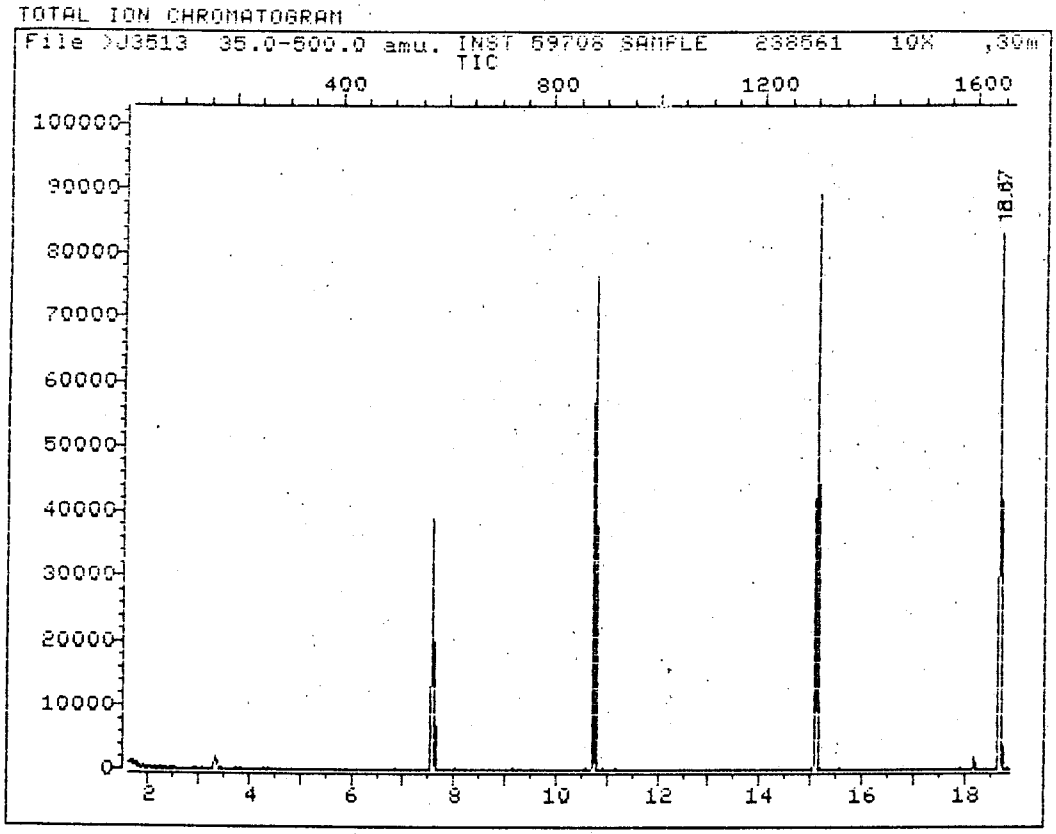
Operator ID: GT0101 Quant Rev: 7 Quant Time: 960718 17:23
Output File: ^J3513::QT Injected at: 960718 16:46
Data File: >J3513::D4 Dilution Factor: 1.00000
Name: INST 59708 SAMPLE Instrument ID: 5970 "J"
Misc: 238561 10X ,30m SPB-5 CAP COLUMN BTL#10

ID File: IDPEST::D1
Title: CLP PESTICIDE CONFIRMATION FILE
Last Calibration: : Last Qcal Time: 960531 11:41

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Phenanthrene-d10	18.67	188.0	56157	40.00	UG/ML	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >J3513::D4 Quant Output File: ^J3513::QT
Name: INST 59708 SAMPLE Instrument ID: 5970 "J"
Misc: 238561 10X ,30m SPB-5 CAP COLUMN BTL#10

Id File: IDPEST::D1
Title: CLP PESTICIDE CONFIRMATION FILE
Last Calibration: : Last Qcal Time: 960531 11:41

Operator ID: GT0101
Quant Time : 960718 17:23
Injected at: 960718 16:46

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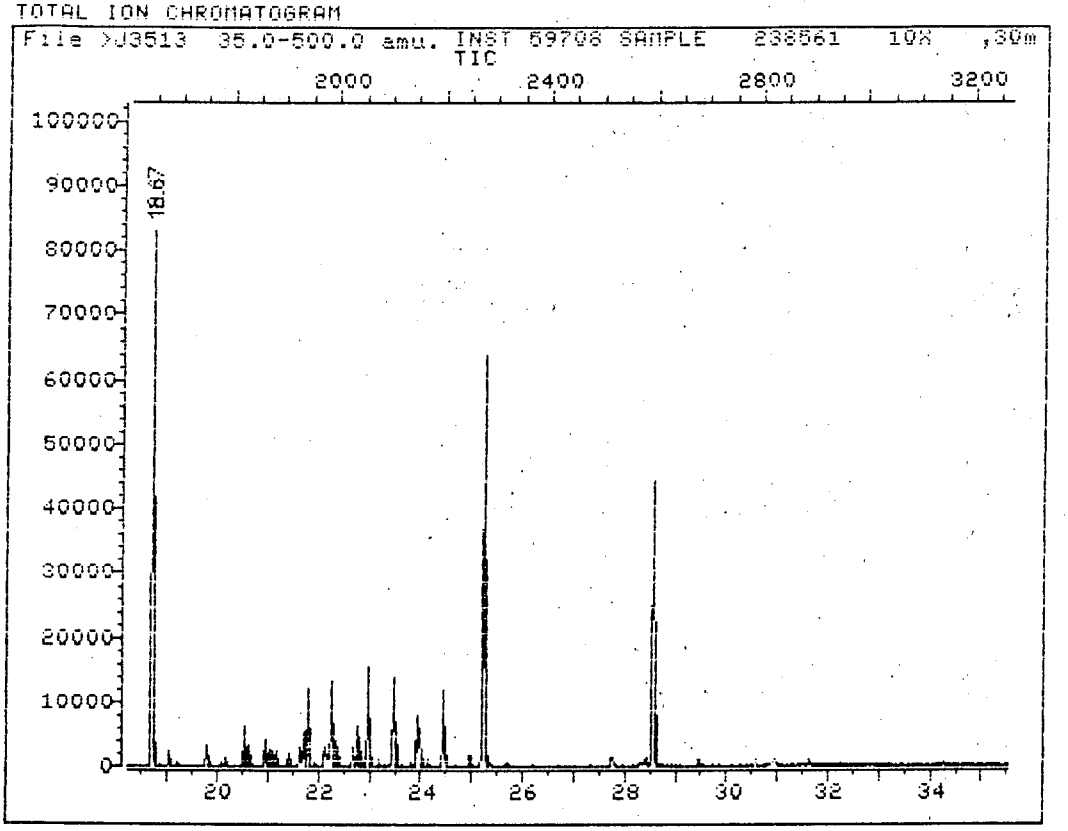
TOTAL ION CHROMATOGRAM

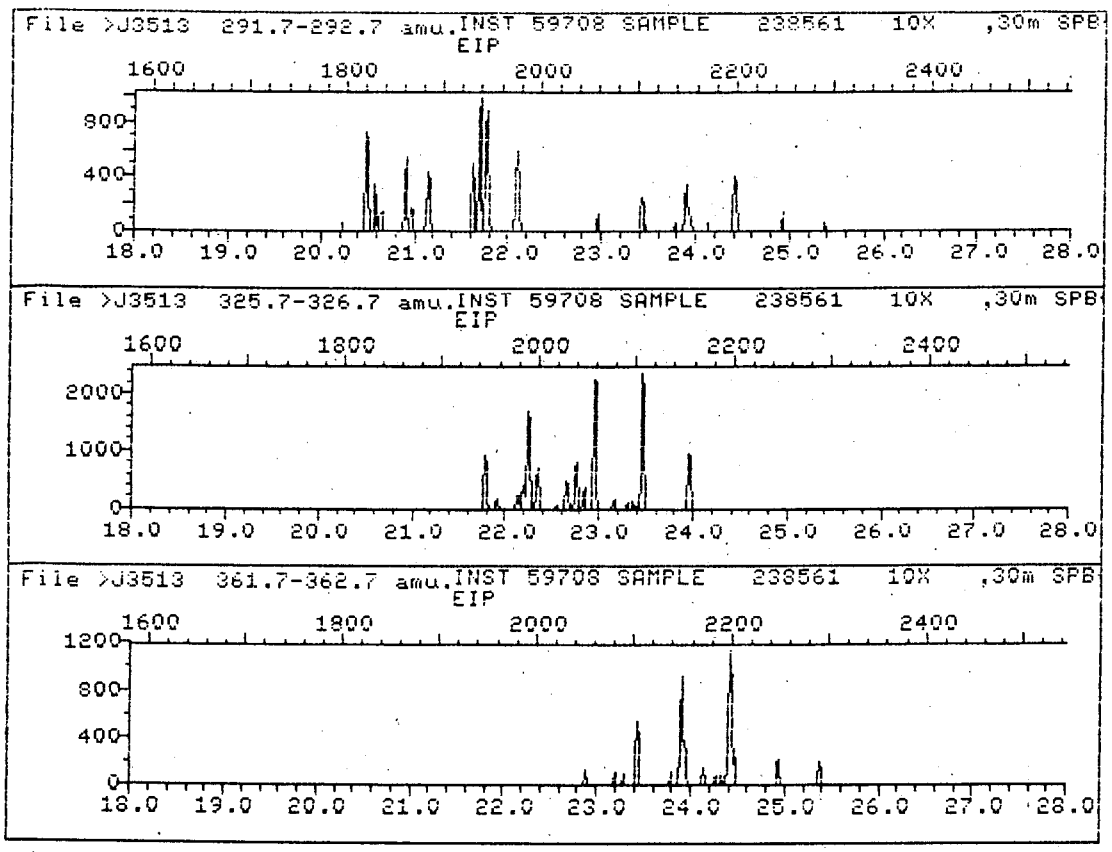


Data File: >J3513::D4 Quant Output File: ^J3513::QT
Name: INST 59708 SAMPLE Instrument ID: 5970 "J"
Misc: 238561 10X ,30m SPB-5 CAP COLUMN BTL#10

Id File: IDPEST::D1
Title: CLP PESTICIDE CONFIRMATION FILE
Last Calibration: : Last Qcal Time: 960531 11:41

Operator ID: GT0101
Quant Time : 960718 17:23
Injected at: 960718 16:46

Page 2 of 2



MS data file header from : >J3513::D4

Sample: INST 59708 SAMPLE Operator: GT0101 SUPER GRP. 7/18/96 16:46
Misc : 238561 10X ,30m SPB-5 CAP COLUMN BTL#10
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 10 Equip ID: 5970 "J"
Method file: BNPJ Tuning file: MTA008 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	40.	280.	300.	0.	0.
Chromatographic times, min. :	4.0	1.0	20.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	10.0	0.0	0.0	0.0

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S26

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Matrix: (soil/water) SOIL Lab Sample ID: 238549

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 03273

% Moisture: 15. decanted: (Y/N) N Date Received: 06/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/03/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/12/96

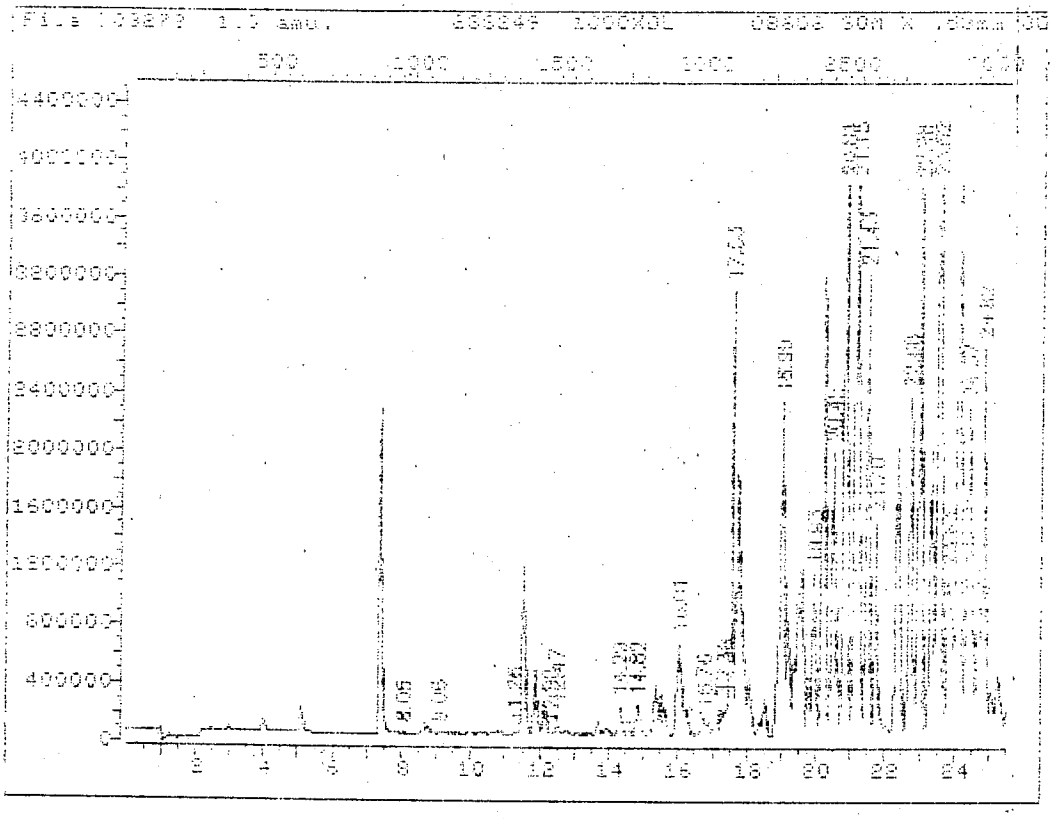
Injection Volume: 1.0 (uL) Dilution Factor: 1000.0

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

Use these data

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	2000.	U
319-85-7	beta-BHC	2000.	U
319-86-8	delta-BHC	2000.	U
58-89-9	gamma-BHC (Lindane)	2000.	U
76-44-8	Heptachlor	2000.	U
309-00-2	Aldrin	2000.	U
1024-57-3	Heptachlor epoxide	2000.	U
959-98-8	Endosulfan I	2000.	U
60-57-1	Dieldrin	3900.	U
72-55-9	4,4'-DDE	3900.	U
72-20-8	Endrin	3900.	U
33213-65-9	Endosulfan II	3900.	U
72-54-8	4,4'-DDD	3900.	U
1031-07-8	Endosulfan Sulfate	3900.	U
50-29-3	4,4'-DDT	3900.	U
72-43-5	Methoxychlor	20000.	U
53494-70-5	Endrin ketone	3900.	U
7421-93-4	Endrin aldehyde	3900.	U
5103-71-9	alpha-Chlordane	2000.	U
5103-74-2	gamma-Chlordane	2000.	U
8001-35-2	Toxaphene	200000.	U
12674-11-2	Aroclor-1016	39000.	U
11104-28-2	Aroclor-1221	78000.	U
11141-16-5	Aroclor-1232	39000.	U
53469-21-9	Aroclor-1242	39000.	U
12672-29-6	Aroclor-1248	39000.	U
11097-69-1	Aroclor-1254	390000. ~~2500000.~~	E-P D*
11096-82-5	Aroclor-1260	39000.	U

D* Value transferred from diluted analysis S26 DL 10000 X D/F



Data File: >05273::G5 Quant Output File: ^05273::G0
Name: 236249 1000XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC59902 1µl inj.

Id File: IDCAP1::GC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Cal Time: 260702 00:15

Operator ID: TRFIZ
Quant Time : 960712 13:55
Injected at: 960712 04:06

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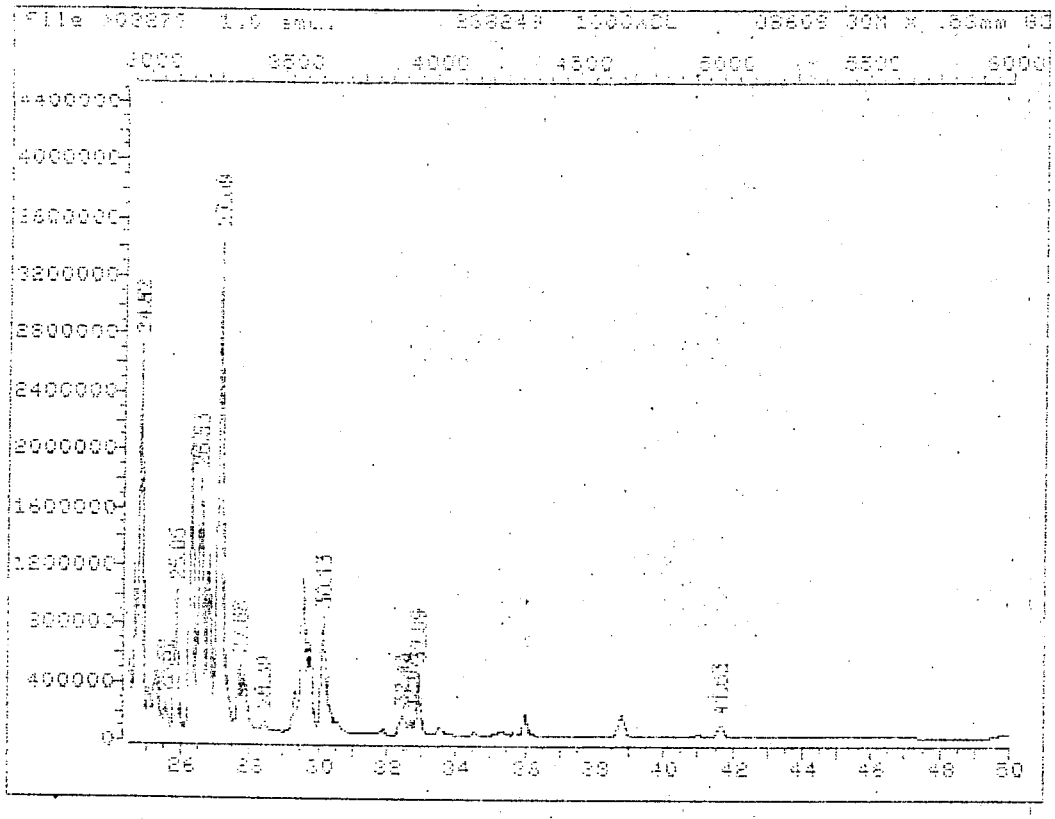

Data File: 103273::63 Quant Output File: 103273::GO
Name: 238249 1000XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58902 1ul Inj.

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Cal Time: 960702 00:13

Operator ID: TBFIZ
Quant Time: 960712 13:53
Injected at: 960712 04:06

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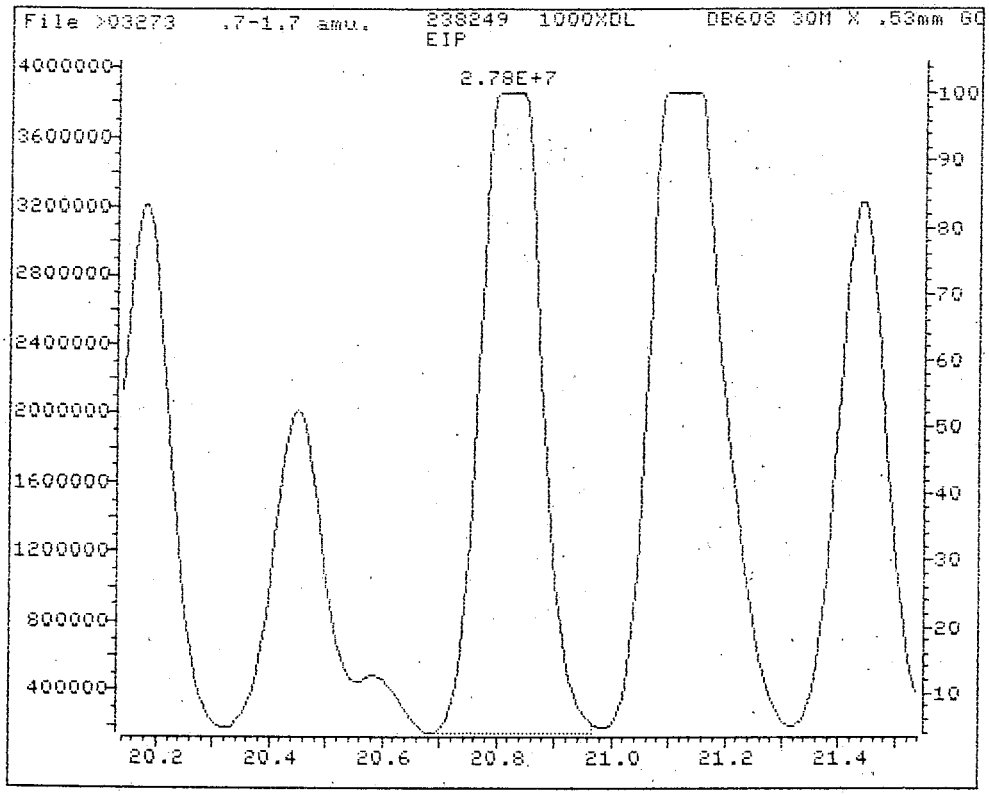
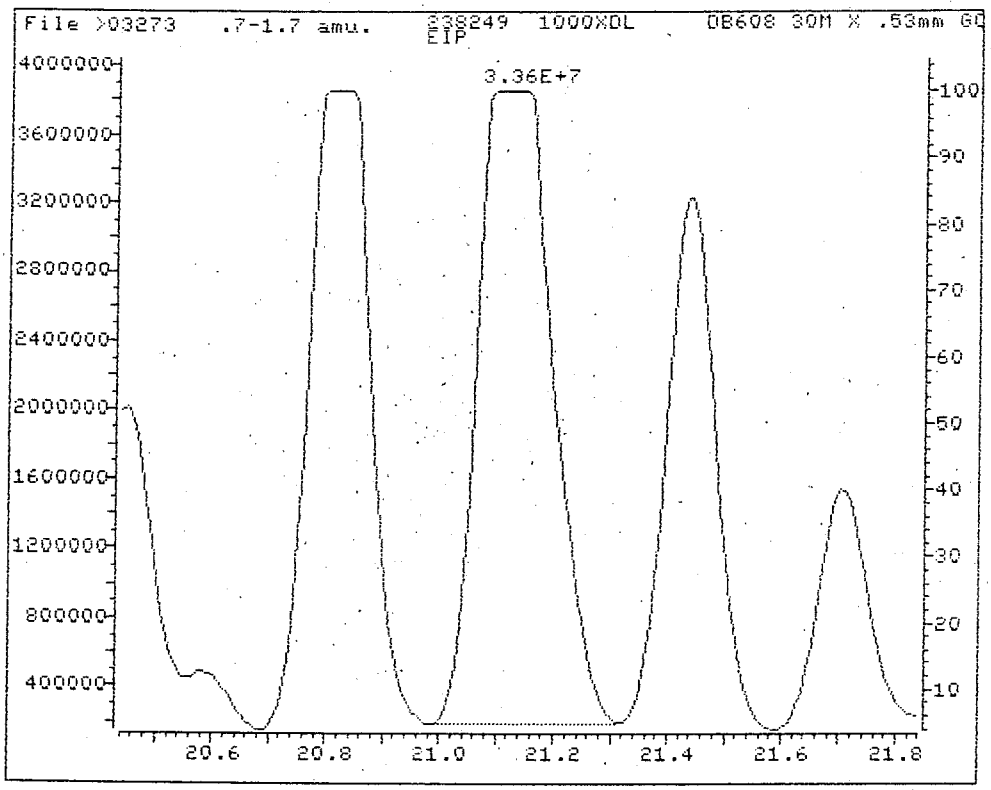


Data File: >03273::G3 Quant Output File: ^03273::GQ
Name: 238249 1000XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58902 1ul inj.
Quant Time: 960712 13:53 Quant ID File: IDCAP1::SC
Injected at: 960712 04:06 Last Calibration: 941029 10:07

Compound No: 28
Compound Name: Aroclor-1254(1)
Scan Number: 2497
Retention Time: 20.81 min.
Quant Ion: 1.0
Area: 27766244M
Concentration: 5856.07 ng/ml
q-value: 100

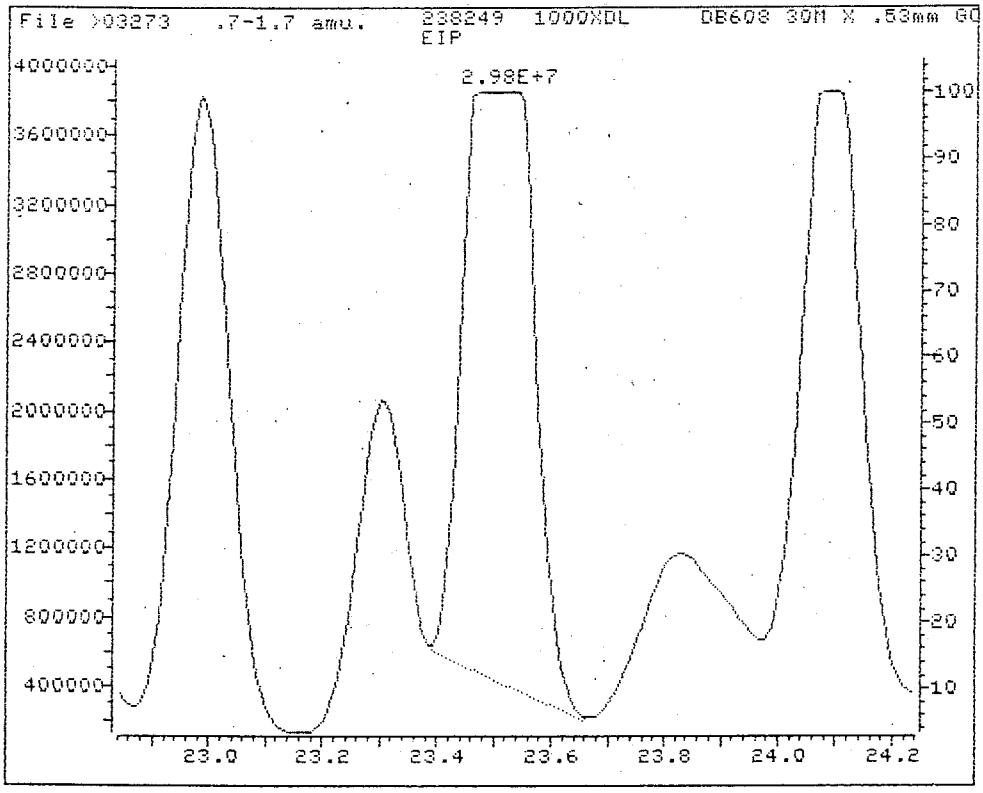
This report was produced by QAREA on: 960715 15:56



Data File: >03273::G3 Quant Output File: ^03273::GQ
Name: 238249 1000XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58902 1ul inj.
Quant Time: 960712 13:53 Quant ID File: IDCAP1::SC
Injected at: 960712 04:06 Last Calibration: 941029 10:07

Compound No: 51
Compound Name: Aroclor-1254(2)
Scan Number: 2538
Retention Time: 21.15 min.
Quant Ion: 1.0
Area: 33552720M
Concentration: 6054.40 ng/ml
q-value: 100

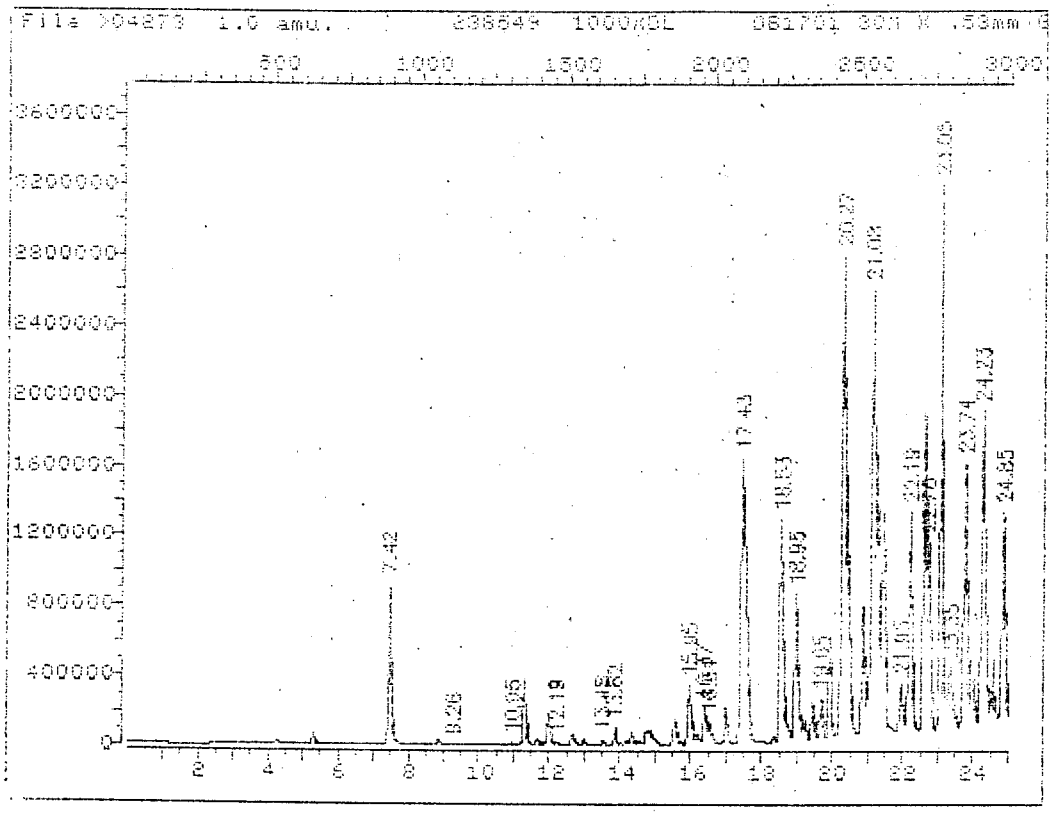
This report was produced by QAREA on: 960715 15:54



Data File: >03273::G3 Quant Output File: ^03273::GQ
Name: 238249 1000XDL Instrument ID: GC03
Misc: DB608 30M X .53mm GC58902 1ul inj.
Quant Time: 960712 13:53 Quant ID File: IDCAP1::SC
Injected at: 960712 04:06 Last Calibration: 941029 10:07

Compound No: 53
Compound Name: Aroclor-1254(4)
Scan Number: 2822
Retention Time: 23.52 min.
Quant Ion: 1.0
Area: 29834412M
Concentration: 4914.18 ng/ml
q-value: 100

This report was produced by QAREA on: 960715 15:59



Data File: >04273::G1 Quant Output File: ^04273::GQ
Name: 238549 1000XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm GC58903 1ul inj.

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Seal Time: 960701 21:23

Operator ID: TRFI2
Quant Time : 960712 08:30
Injected at: 960712 04:06

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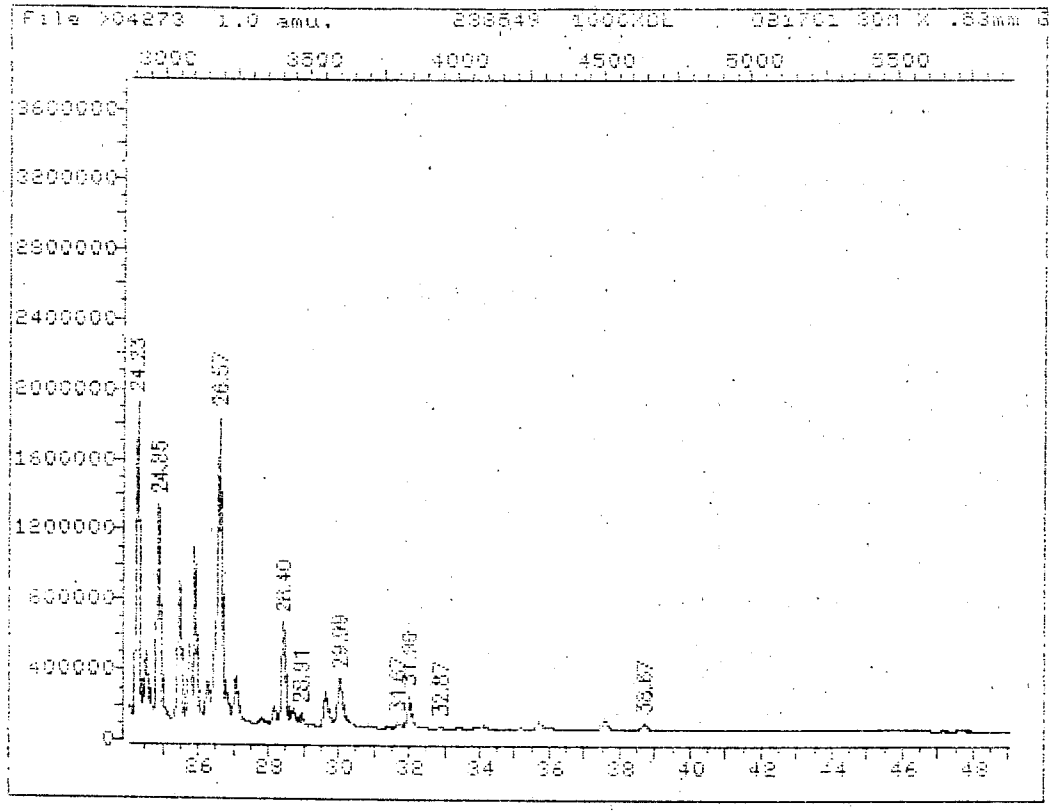

Data File: >04273::G1 Quant Output File: ^04273::GQ
Name: 238549 1000XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm GC58905 1ul inj.

Id File: IDCAP2::GC
Title: Capillary Column DB1701
Last Calibration: 941027 10:07 Last Qual Time: 960701 21:23

Operator ID: TRFIZ
Quant Time : 960712 08:50
Injected at: 960712 04:06

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QUANT REPORT

Operator ID: TRFIZ Quant Rev: 7 Quant Time: 960712 13:53
Output File: 103273.G0 Injected at: 960712 04:06
Data File: 103273.G3 Dilution Factor: 1.00000
Name: 238/249 1000XDL Instrument ID: GC03
Misc: DB-608 30M X .53mm 1255902 1ul inj.

5

JMW 7/23/96

ID File: IDCAP1.isc
Title: Capillary Column DB 608
Last Calibration: 941028 10:07 Last Scal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.06	1087	19160	.153	ng/ml	100
2)	~~#alpha-BHC~~	12.47	1496	834347	5.64	ng/ml	100
3)	~~#beta-BHC~~	14.82	1778	1571774	19.15	ng/ml	100
5)	~~#Gamma BHC (Lindane)~~	14.29	1715	1323172	9.68	ng/ml	100
6)	~~#Heptachlor~~	16.01	1921	5810174	74.47	ng/ml	100
7)	~~#Aldrin~~	17.38	2085	332656	2.47	ng/ml	100
8)	~~#Heptachlor epoxide~~	19.93	2391	6040725	54.99	ng/ml	100
9)	~~#Endosulfan I~~	21.70	2604	9283534	76.19	ng/ml	100
10)	~~#Dieldrin~~	22.98	2758	25820888	251.94	ng/ml	100
11)	~~#4,4'-DDE~~	22.68	2722	17557460	191.93	ng/ml	100
12)	~~#Endrin~~	24.82	2978	17009868	198.73	ng/ml	100
13)	~~#Endosulfan II~~	25.85	3102	6550972	68.02	ng/ml	100
14)	~~#4,4'-DDD~~	25.52	3062	1091616	18.95	ng/ml	100
15)	~~#Endosulfan Sulfate~~	28.39	3407	577858	6.52	ng/ml	100
16)	~~#4,4'-DDT~~	27.09	3251	25267768	389.83	ng/ml	100
17)	~~#Methoxychlor~~	32.43	3891	1615935	41.62	ng/ml	100
18)	~~#Endrin ketone~~	32.67	3920	668199	7.42	ng/ml	100
19)	#Decachlorobiphenyl	41.83	4995	1043697	8.72	ng/ml	100
20)	~~#Toxaphene~~ NT	21.43	2572	13611298	135.56	ng/ml	100
21)	~~#gamma-Chlordane~~ NT	20.61	2497	3665893	31.11	ng/ml	100
22)	~~#Toxaphene(1)~~ NP	23.85	2859	10435826	6507.24	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.28	1474	30147	10.25	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	8.05	966	22455	26.48	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	12.28	1474	30147	10.52	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.28	1474	30147	11.56	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	16.01	1921	5810174	767.81	ng/ml	100
28)	#Aroclor-1254(1)	20.81	2497	27766244M	5856.07	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	24.37	2924	16094462	2076.16	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	27.68	3321	3515434	44.57	ng/ml	100
31)	~~#Toxaphene(2)~~ NP	27.68	3321	3516499	1910.99	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	28.39	3407	577858	231.19	ng/ml	100
34)	~~#Aroclor-1016(2)~~ NP	14.29	1715	1323172	302.41	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	16.01	1921	5810174	526.01	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.76	2011	1088333	291.42	ng/ml	100
37)	~~#Aroclor-1016(5)~~ NP	18.99	2279	17893580	5266.44	ng/ml	100
38)	~~#Aroclor-1221(2)~~ NP	11.26	1351	89135	53.05	ng/ml	100
39)	~~#Aroclor-1221(3)~~ NP	12.28	1474	30147	7.90	ng/ml	100
40)	~~#Aroclor-1232(2)~~ NP	14.29	1715	1323172	468.87	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	16.01	1921	5810174	1234.99	ng/ml	100
42)	~~#Aroclor-1232(4)~~ NP	16.76	2011	1088333	632.11	ng/ml	100

NT

JMW 7/19/96

QUANT REPORT

Operator ID: TEEIZ
Output File: 013275.GQ
Data File: 005277.G3
Name: 179249 1:20X3L
Misc: 2861 30M X .35mm SC58902 1ul inj

Quant Rev: 7
Quant Time: 960712 13:53
Injected at: 960712 04:06
Dilution Factor: 1.00000
Instrument ID: GC03

ID File: ICCAPI.GC
Title: Capillary Column SB 608
Last Calibration: 941029 10:07
Last Ocal Time: 960702 00:13

	Compound		R.T.	Scan#	Area	Conc	Units	q
43)	~~#Aroclor-1242(2)~~	NP	14.29	1715	1523172	245.85	ng/ml	100
44)	~~#Aroclor-1242(3)~~	NP	16.01	1921	5810170	651.85	ng/ml	100
45)	~~#Aroclor-1242(4)~~	NP	16.76	2011	3088355	344.09	ng/ml	100
46)	~~#Aroclor-1242(5)~~	NP	18.99	2279	17895770	5986.36	ng/ml	100
47)	~~#Aroclor-1242(6)~~	NP	17.53	2103	17120960	6565.93	ng/ml	100
48)	~~#Aroclor-1248(2)~~	NP	18.99	2279	17895890	4308.58	ng/ml	100
49)	~~#Aroclor-1248(3)~~	NP	20.45	2454	11347862	2342.16	ng/ml	100
50)	~~#Aroclor-1248(4)~~	NP	21.70	2604	9106035	1651.66	ng/ml	100
51)	#Aroclor-1254(2)		21.15	2538	33552720M	6054.40	ng/ml	100
52)	#Aroclor-1254(3)		22.69	2722	17557460	10889.02	ng/ml	100
53)	#Aroclor-1254(4)		23.52	2822	29834412M	4914.18	ng/ml	100
54)	#Aroclor-1254(5)		24.82	2978	17009868	4743.91	ng/ml	100
55)	~~#Aroclor-1260(2)~~	NP	24.82	2978	17009868	2428.46	ng/ml	100
56)	~~#Aroclor-1260(3)~~	NP	26.38	3183	13305309	2548.79	ng/ml	100
57)	~~#Aroclor-1260(4)~~	NP	30.13	3615	6947944	643.05	ng/ml	100
58)	~~#Aroclor-1260(5)~~	NP	32.89	3946	3738855	677.17	ng/ml	100

Compound uses ESTD

7/19/96

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 08:30
Output File: ^04273::G5 Injected at: 960712 04:06
Data File: ^04273::G1 Dilution Factor: 1.00000
Name: 238549 1000YOL Instrument ID: GC04
Misc: DB1701 30M X .55mm GC53903 1ul inj.

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qual Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.26	1111	5977	.144	ng/ml	100
2)	~~#alpha-BHC~~	13.48	1618	151169	4.61	ng/ml	100
3)	~~#beta-BHC~~	18.53	2224	9250128	352.04	ng/ml	100
4)	~~#delta-BHC~~	19.65	2358	1323332	54.30	ng/ml	100
6)	~~#heptachlor~~	16.37	1965	1051334	22.17	ng/ml	100
7)	~~#Aldrin~~	17.43	2091	16856420	447.59	ng/ml	100
9)	~~#Endosulfan I~~	21.95	2634	1588196	44.48	ng/ml	100
10)	~~#Dieldrin~~	23.35	2802	2330318	71.76	ng/ml	100
11)	~~#4,4'-DDE~~	22.70	2724	6166228	222.13	ng/ml	100
12)	~~#Endrin~~	24.23	2907	12663022	436.83	ng/ml	100
13)	~~#Endosulfan II~~	26.57	3188	13779466	385.01	ng/ml	100
14)	~~#4,4'-DDD~~	26.57	3188	13529519	640.27	ng/ml	100
18)	~~#Endrin ketone~~	32.87	3944	80992	2.88	ng/ml	100
19)	#Decachlorobiphenyl	38.67	4640	427675	9.16	ng/ml	100
20)	~~#alpha-Chlordane~~ NT	22.19	2663	7589530	181.98	ng/ml	100
21)	~~#gamma-Chlordane~~ NT	21.95	2634	1588196	39.74	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.19	1463	81598	66.07	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	7.42	890	4825449	6101.75	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	7.42	890	4825449	4052.31	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.19	1463	81598	77.13	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	13.82	1659	576388	523.28	ng/ml	100
28)	#Aroclor-1254(1)	17.43	2091	16856420	10610.60	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	23.74	2849	10481192	4536.66	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	28.91	3469	494599	16.28	ng/ml	100
31)	~~#Toxaphene(2)~~	28.40	3408	4285183	5945.53	ng/ml	100
33)	~~#Toxaphene(4)~~ NP	31.67	3800	232199	462.74	ng/ml	100
34)	~~#Aroclor-1016(2)~~	13.82	1659	576388	235.77	ng/ml	100
35)	~~#Aroclor-1016(3)~~	15.95	1914	2325796	599.57	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.51	1981	850105	583.73	ng/ml	100
37)	~~#Aroclor-1016(5)~~	18.53	2224	9232298	4480.18	ng/ml	100
38)	~~#Aroclor-1221(2)~~	10.95	1314	47545	72.49	ng/ml	100
39)	~~#Aroclor-1221(3)~~ NP	12.19	1463	81598	47.57	ng/ml	100
40)	~~#Aroclor-1232(2)~~	12.19	1463	81598	69.65	ng/ml	100
41)	~~#Aroclor-1232(3)~~	13.82	1659	576388	559.76	ng/ml	100
42)	~~#Aroclor-1232(4)~~ NP	15.95	1914	2325796	1488.84	ng/ml	100
43)	~~#Aroclor-1242(2)~~	13.82	1659	576388	290.18	ng/ml	100
44)	~~#Aroclor-1242(3)~~	15.95	1914	2325796	754.35	ng/ml	100
45)	~~#Aroclor-1242(4)~~ NP	16.51	1981	850105	743.76	ng/ml	100
46)	~~#Aroclor-1242(5)~~	17.43	2091	16856420	21303.80	ng/ml	100
47)	~~#Aroclor-1248(2)~~ NP	15.95	1914	2325796	890.33	ng/ml	100

NP LP NT

EPrice 7/13/96

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 08:30
Output File: ^04273::GQ Injected at: 960712 04:06
Data File: >04273::G1 Dilution Factor: 1.00000
Name: 238549 1000XDL Instrument ID: GC04
Misc: DB1701 30M. x .53mm GC38933 1ul inj.

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qual Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
48)	~~#Aroclor 1248(3)~~	18.53	2224	9232208	3747.32	ng/ml	100
49)	~~#Aroclor 1248(4)~~	18.95	2274	5321572	3014.44	ng/ml	100
50)	~~#Aroclor 1248(5)~~	20.27	2432	19077660	19876.70	ng/ml	100
51)	#Aroclor-1254(3)	20.27	2432	19077660	9383.26	ng/ml	100
52)	#Aroclor-1254(3)	21.08	2530	15715230	8568.78	ng/ml	100
53)	#Aroclor-1254(4)	23.05	2766	19988912	7839.71	ng/ml	100
54)	#Aroclor-1254(5)	23.74	2849	10481192	7728.01	ng/ml	100
55)	~~#Aroclor 1260(2)~~	24.85	2982	8640550	3182.39	ng/ml	100
56)	~~#Aroclor 1260(3)~~	28.40	3408	4299005	2422.19	ng/ml	100
57)	~~#Aroclor 1260(4)~~	29.99	3599	2248518	571.99	ng/ml	100
58)	~~#Aroclor 1260(5)~~	31.99	3838	2051357	826.01	ng/ml	100

UP

UP

Compound uses ESTD

EPui
7/13/96

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S26 DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Matrix: (soil/water) SOIL Lab Sample ID: 238549

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 03248

% Moisture: 15. decanted: (Y/N) N Date Received: 06/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/03/96

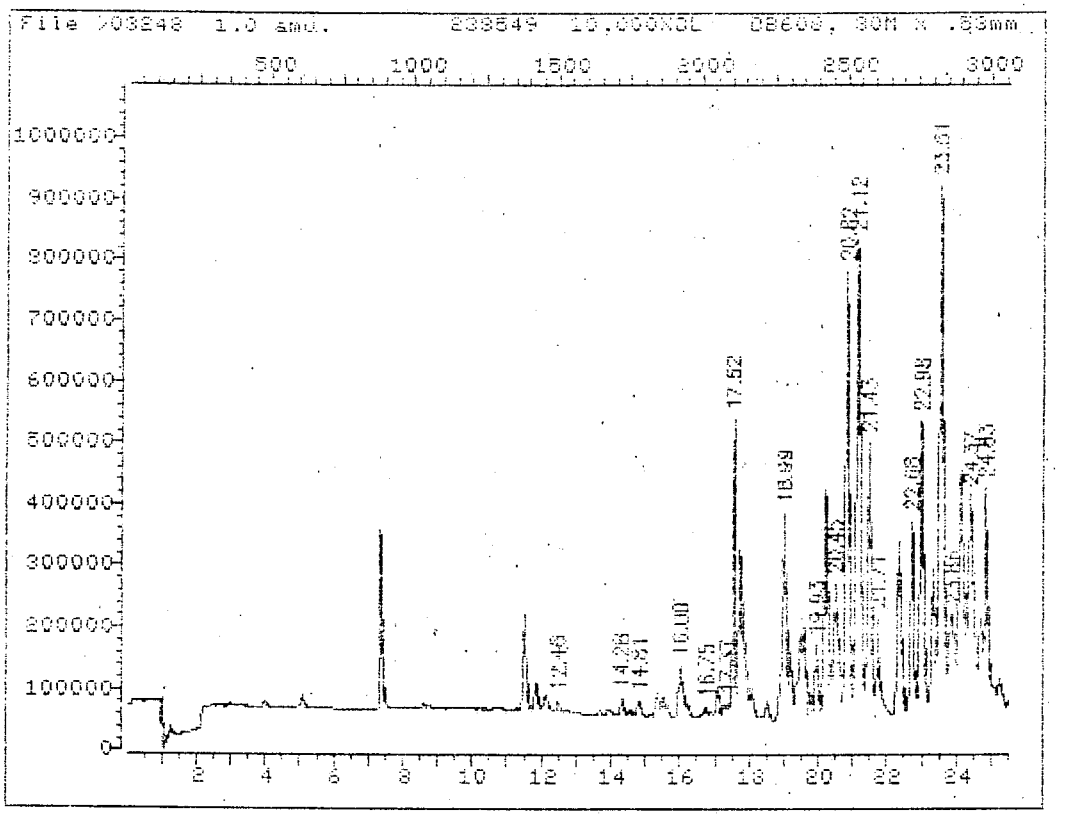
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/10/96

Injection Volume: 1.0 (uL) Dilution Factor: 10000.0

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

Do not use these data.

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	20000.	U
319-85-7	beta-BHC	20000.	U
319-86-8	delta-BHC	20000.	U
58-89-9	gamma-BHC (Lindane)	20000.	U
76-44-8	Heptachlor	20000.	U
309-00-2	Aldrin	20000.	U
1024-57-3	Heptachlor epoxide	20000.	U
959-98-8	Endosulfan I	20000.	U
60-57-1	Dieldrin	39000.	U
72-55-9	4,4'-DDE	39000.	U
72-20-8	Endrin	39000.	U
33213-65-9	Endosulfan II	39000.	U
72-54-8	4,4'-DDD	39000.	U
1031-07-8	Endosulfan Sulfate	39000.	U
50-29-3	4,4'-DDT	39000.	U
72-43-5	Methoxychlor	200000.	U
53494-70-5	Endrin ketone	39000.	U
7421-93-4	Endrin aldehyde	39000.	U
5103-71-9	alpha-Chlordane	20000.	U
5103-74-2	gamma-Chlordane	20000.	U
8001-35-2	Toxaphene	2000000.	U
12674-11-2	Aroclor-1016	390000.	U
11104-28-2	Aroclor-1221	780000.	U
11141-16-5	Aroclor-1232	390000.	U
53469-21-9	Aroclor-1242	390000.	U
12672-29-6	Aroclor-1248	390000.	U
11097-69-1	Aroclor-1254	3900000.	D
11096-82-5	Aroclor-1260	390000.	U



Data File: >03248::F3 Quant Output File: ^03248::GQ
Name: 238549 10,000XDL Instrument ID: GC03
Misc: DB608, 30M X .53mm GC58403 1ul inj.

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qual Time: 960702 00:13

Operator ID: TRFI2
Quant Time: 960712 13:08
Injected at: 960710 21:32

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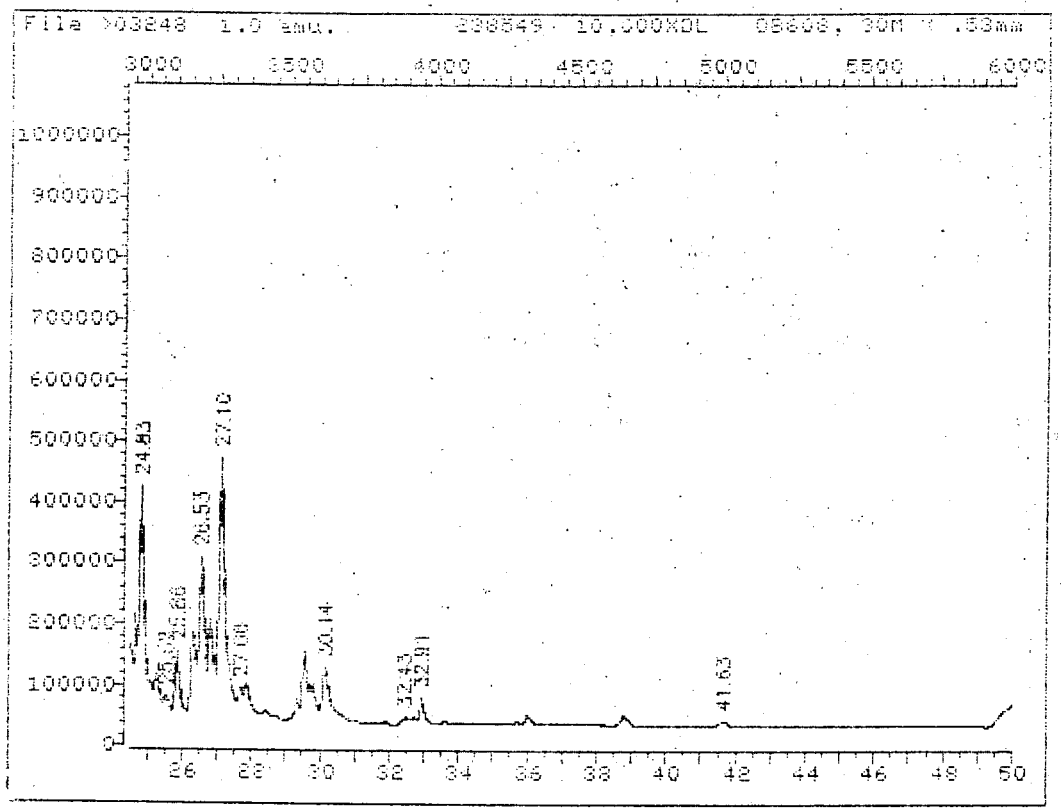

Data File: ^03248::F3 Quant Output File: ^03248::GQ
Name: 238549 10.000XDL Instrument ID: GC03
Misc: DB608, 30M X .53mm GC58403 1ul inj.

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qual Time: 960702 00:13

Operator ID: TRFI2
Quant Time : 960712 13:08
Injected at: 960710 21:32

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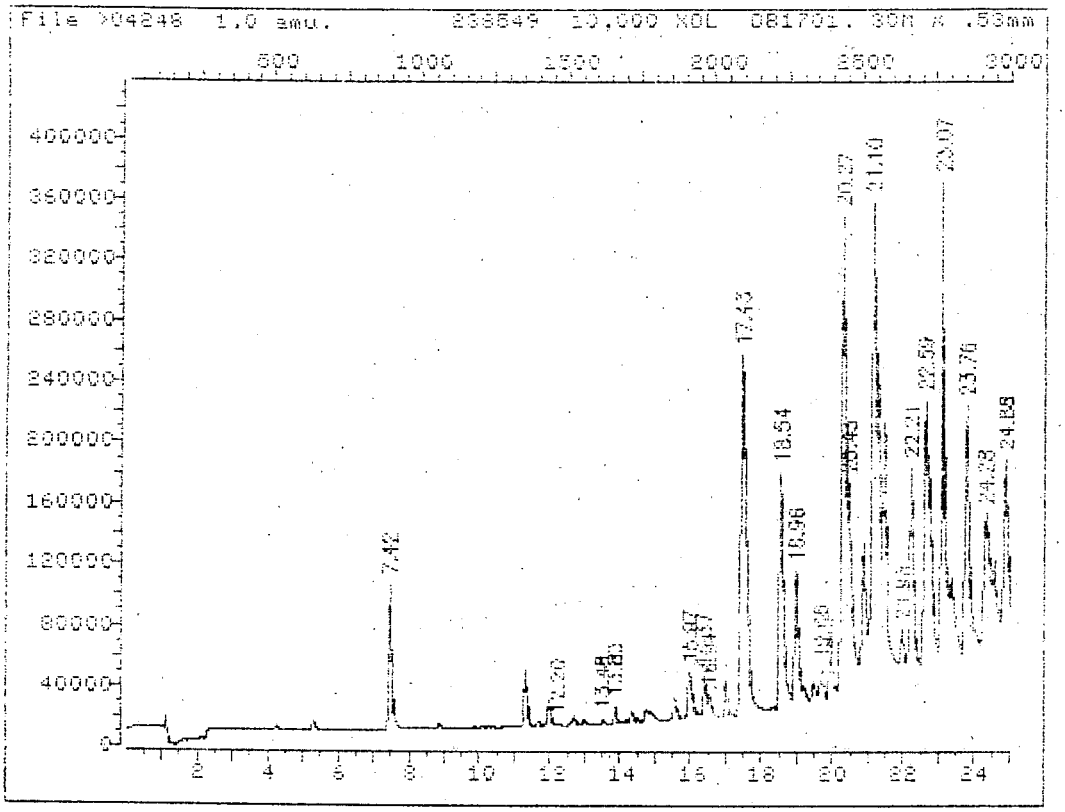

Data File: >04248::G1 Quant Output File: ^04248::GQ
Name: Z38549 10,000 XDL Instrument ID: GC04
Misc: DB1701, 30M X .53mm GC58405 1ul inj.

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941027 10:07 Last Cbal Time: 960701 21:23

Operator ID: TRFIZ
Quant Time : 960712 13:24
Injected at: 960710 21:32

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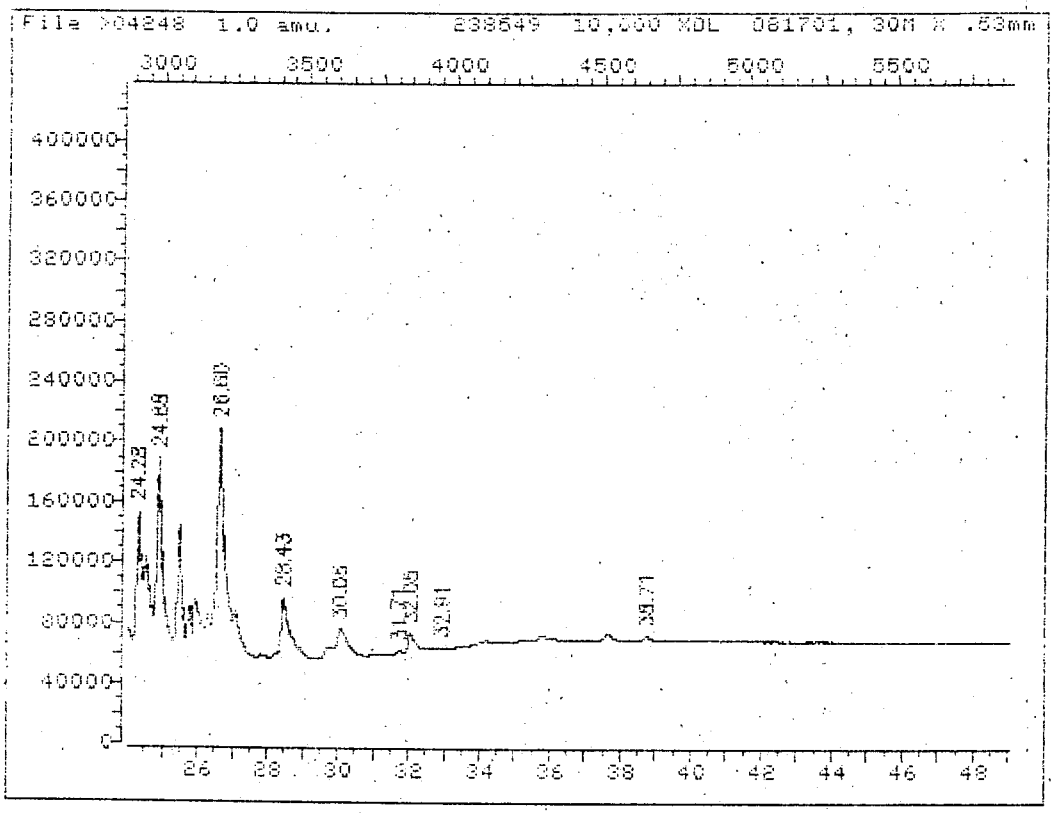

Data File: >04248::G1 Quant Output File: ^04248::GQ
Name: 238549 10.000 XDL Instrument ID: GC04
Misc: DB1701, 30M X .53mm GC58403 1ul inj.

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

Operator ID: TRPI2
Quant Time : 960712 13:24
Injected at: 960710 21:32

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QUANT REPORT

Operator ID: TRFIZ Quant Rev: 7 Quant Time: 960712 13:08
Output File: ^03248::GC Injected at: 960710 21:32
Data File: >03248::F3 Dilution Factor: 1.00000
Name: Z38549 10.000XDL Instrument ID: GC03
Misc: DB608, 30M X .53mm CC56403 1ul inj.

S26DL

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Ocal Time: 960702 00:13

	Compound	R.T.	Scan#	Area	Conc	Units	q
2)	#~~alpha BHC~~	12.46	1495	106695	.721	ng/ml	100
3)	#~~beta BHC~~	14.81	1777	198847	2.42	ng/ml	100
5)	#~~gamma BHC (Lindane)~~	14.28	1714	154890	1.13	ng/ml	100
6)	#~~Heptachlor~~	16.00	1920	724858	9.29	ng/ml	100
7)	#~~Aldrin~~	17.37	2084	25957	.193	ng/ml	100
8)	#~~Heptachlor epoxide~~	19.93	2392	599006	5.45	ng/ml	100
9)	#~~Endosulfan~~ I	21.71	2605	1362454	11.18	ng/ml	100
10)	#~~Dieldrin~~	22.98	2758	2985810	31.58	ng/ml	100
11)	#~~4,4' DDE~~	22.68	2722	2558381	25.78	ng/ml	100
12)	#~~Endrin~~	24.83	2979	2362392	27.60	ng/ml	100
13)	#~~Endosulfan II~~	25.86	3103	780044	8.10	ng/ml	100
14)	#~~4,4' DDD~~	25.52	3062	162030	2.81	ng/ml	100
16)	#~~4,4' DDT~~	27.10	3252	4250883	65.58	ng/ml	100
17)	#~~Methoxychlor~~	32.43	3891	172201	4.44	ng/ml	100
18)	#~~Endrin ketone~~	32.91	3949	430942	4.79	ng/ml	100
19)	#Decachlorobiphenyl ?	41.63	4996	124902	1.04	ng/ml	100
20)	#~~alpha Chlordane~~ NT	21.43	2572	2808295	20.45	ng/ml	100
21)	#~~gamma Chlordane~~ NT	20.82	2498	4553799	38.64	ng/ml	100
22)	#~~Toxaphene(1)~~ NP	23.86	2863	890232	555.10	ng/ml	100
23)	#~~Aroclor-1016(1)~~ NP	12.46	1495	106695	36.29	ng/ml	100
25)	#~~Aroclor-1232(1)~~ NP	12.46	1495	106695	37.24	ng/ml	100
26)	#~~Aroclor-1242(1)~~ NP	12.46	1495	106695	40.91	ng/ml	100
27)	#~~Aroclor-1248(1)~~ NP	16.00	1920	724858	95.79	ng/ml	100
28)	#Aroclor-1254(1)	20.82	2498	4553799	960.42	ng/ml	100
29)	#~~Aroclor-1260(1)~~ NP	24.37	2924	2657146	342.77	ng/ml	100
30)	#~~Endrin aldehyde~~ NT	27.66	3319	314990	3.99	ng/ml	100
31)	#~~Toxaphene~~(2)	27.66	3319	314990	171.18	ng/ml	100
34)	#~~Aroclor-1016(2)~~	14.28	1714	152459	23.32	ng/ml	100
35)	#~~Aroclor-1016(3)~~	16.00	1920	724858	65.62	ng/ml	100
36)	#~~Aroclor-1016(4)~~ NP	16.75	2010	124239	33.27	ng/ml	100
37)	#~~Aroclor-1016(5)~~	18.99	2279	2480600	730.09	ng/ml	100
39)	#~~Aroclor-1221(3)~~ NP	12.46	1495	106695	27.96	ng/ml	100
40)	#~~Aroclor-1232(2)~~	14.28	1714	152459	54.02	ng/ml	100
41)	#~~Aroclor-1232(3)~~ NP	16.00	1920	724858	154.07	ng/ml	100
42)	#~~Aroclor-1232(4)~~	16.75	2010	124239	72.16	ng/ml	100
43)	#~~Aroclor-1242(2)~~	14.28	1714	152085	28.26	ng/ml	100
44)	#~~Aroclor-1242(3)~~	16.00	1920	724858	81.32	ng/ml	100
45)	#~~Aroclor-1242(4)~~ NP	16.75	2010	124239	39.28	ng/ml	100
46)	#~~Aroclor-1242(5)~~	18.99	2279	2480600	829.92	ng/ml	100
47)	#~~Aroclor-1248(2)~~ NP	17.52	2102	2852316	1093.54	ng/ml	100

NT

EPrui 7/13/96

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 13:08
Output File: 103248::GD Injected at: 960710 21:32
Data File: 103248::F3 Dilution Factor: 1.00000
Name: 238549 10.000XDL Instrument ID: GC03
Misc: DB608. 30M x .53mm 3C58403 1ul inj.

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941027 10:07 Last Scal Time: 960702 00:13

Compound	R.T.	Scan#	Area	Conc	Units	q
48) ~~#Aroclor-1248(3)~~	18.99	2279	2480600	597.35	ng/ml	100
49) ~~#Aroclor-1248(4)~~ NP	20.45	2454	1105009	228.07	ng/ml	100
50) ~~#Aroclor-1248(5)~~	21.71	2605	1362454	247.12	ng/ml	100
51) #Aroclor-1254(2)	21.12	2534	5677935	1024.55	ng/ml	100
52) #Aroclor-1254(3)	22.68	2722	8358381	1462.65	ng/ml	100
53) #Aroclor-1254(4)	23.51	2821	5383168	886.69	ng/ml	100
54) #Aroclor-1254(5)	24.83	2979	2362392	658.85	ng/ml	100
55) ~~#Aroclor-1260(2)~~	24.83	2979	2362392	337.27	ng/ml	100
56) ~~#Aroclor-1260(3)~~	26.53	3183	1893704	362.76	ng/ml	100
57) ~~#Aroclor-1260(4)~~ NP	30.14	3617	1240282	114.79	ng/ml	100
58) ~~#Aroclor-1260(5)~~	32.91	3949	430942	78.06	ng/ml	100

Compound uses ESTD

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QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 13:24
Output File: ^04248::G3 Injected at: 960710 21:32
Data File: >04248::G1 Dilution Factor: 1.00000
Name: 238549 10,000 XDL Instrument ID: GC04
Misc: DB1701, 30M X .53mm GC58403 1ul inj.

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
2)	~~#alpha-BHC~~	13.48	1618	15141	.462	ng/ml	100
3)	~~#beta-BHC~~	18.54	2225	1282712	48.82	ng/ml	100
4)	~~#delta-BHC~~	19.66	2359	119751	4.91	ng/ml	100
6)	~~#Heptachlor~~	16.37	1965	138820	2.93	ng/ml	100
7)	~~#Aldrin~~	17.43	2092	2653722	70.46	ng/ml	100
8)	~~#Heptachlor epoxide~~ NT	20.43	2452	751739	17.21	ng/ml	100
11)	~~#4,4'-DDE~~	22.59	2711	1097567	39.54	ng/ml	100
12)	~~#Endrin~~	24.28	2914	940315	32.44	ng/ml	100
13)	~~#Endosulfan II~~	26.60	3192	1555993	43.48	ng/ml	100
14)	~~#4,4'-DDD~~	26.60	3192	1818600	86.06	ng/ml	100
18)	~~#Endrin ketone~~	32.91	3949	9593	.341	ng/ml	100
19)	#Decachlorobiphenyl ?	38.71	4645	41550	.890	ng/ml	100
20)	~~#alpha-Chlordane~~ NT	22.21	2665	901645	21.62	ng/ml	100
21)	~~#gamma-Chlordane~~ NT	21.96	2635	130758	3.27	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.20	1464	5474	4.43	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	7.42	891	523067	661.42	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	7.42	891	523067	439.26	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.20	1464	5474	5.17	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	13.83	1660	67275	61.08	ng/ml	100
28)	#Aroclor-1254(1)	17.43	2092	2638555	1660.88	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	23.76	2851	1244952	538.86	ng/ml	100
31)	~~#Toxaphene(2)~~ NP	28.43	3411	626021	868.58	ng/ml	100
33)	~~#Toxaphene(4)~~ NP	31.71	3805	20888	41.63	ng/ml	100
34)	~~#Aroclor-1016(2)~~ NP	13.83	1660	67275	27.52	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	15.97	1916	236174	60.88	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.51	1981	86689	59.53	ng/ml	100
37)	~~#Aroclor-1016(5)~~ NP	18.54	2225	1282712	622.47	ng/ml	100
39)	~~#Aroclor-1221(5)~~ NP	12.20	1464	5474	3.19	ng/ml	100
40)	~~#Aroclor-1232(2)~~ NP	12.20	1464	5474	4.67	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	13.83	1660	67275	65.33	ng/ml	100
42)	~~#Aroclor-1232(4)~~ NP	15.97	1916	236174	151.19	ng/ml	100
43)	~~#Aroclor-1242(2)~~ NP	13.83	1660	67275	33.87	ng/ml	100
44)	~~#Aroclor-1242(3)~~ NP	15.97	1916	236174	76.60	ng/ml	100
45)	~~#Aroclor-1242(4)~~ NP	16.51	1981	86689	75.84	ng/ml	100
46)	~~#Aroclor-1242(5)~~ NP	17.43	2092	2640499	3337.17	ng/ml	100
47)	~~#Aroclor-1248(2)~~ NP	15.97	1916	236174	90.41	ng/ml	100
48)	~~#Aroclor-1248(3)~~ NP	18.54	2225	1282712	520.65	ng/ml	100
49)	~~#Aroclor-1248(4)~~ NP	18.96	2275	578479	327.68	ng/ml	100
50)	~~#Aroclor-1248(5)~~ NP	20.43	2452	755855	787.51	ng/ml	100
51)	#Aroclor-1254(2)	20.27	2432	2330858	1146.42	ng/ml	100

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QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960712 13:24
Output File: ^04248::GQ Injected at: 960710 21:32
Data File: >04248::G1 Dilution Factor: 1.00000
Name: 238549 10.000 XDL Instrument ID: GC04
Misc: DB1701, 30M x .53mm GC8840F (ul inj)

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960701 21:23

	Compound	R.T.	Scan#	Area	Conc	Units	q
52)	#Aroclor-1254(3)	21.10	2532	1981351	1080.34	ng/ml	100
53)	#Aroclor-1254(4)	23.07	2768	2501378	981.05	ng/ml	100
54)	#Aroclor-1254(5)	23.76	2851	1244952	917.93	ng/ml	100
55)	#~~Aroclor-1260~~(2)	24.88	2985	1179913	434.57	ng/ml	100
56)	#~~Aroclor-1260~~(3)	28.43	3411	1126021	352.72	ng/ml	100
57)	#~~Aroclor-1260~~(4)	30.05	3606	367420	93.45	ng/ml	100
58)	#~~Aroclor-1260~~(5)	32.05	3846	201959	81.32	ng/ml	100

UP

Compound uses ESTD

EPuci
7/13/96

QUANT REPORT

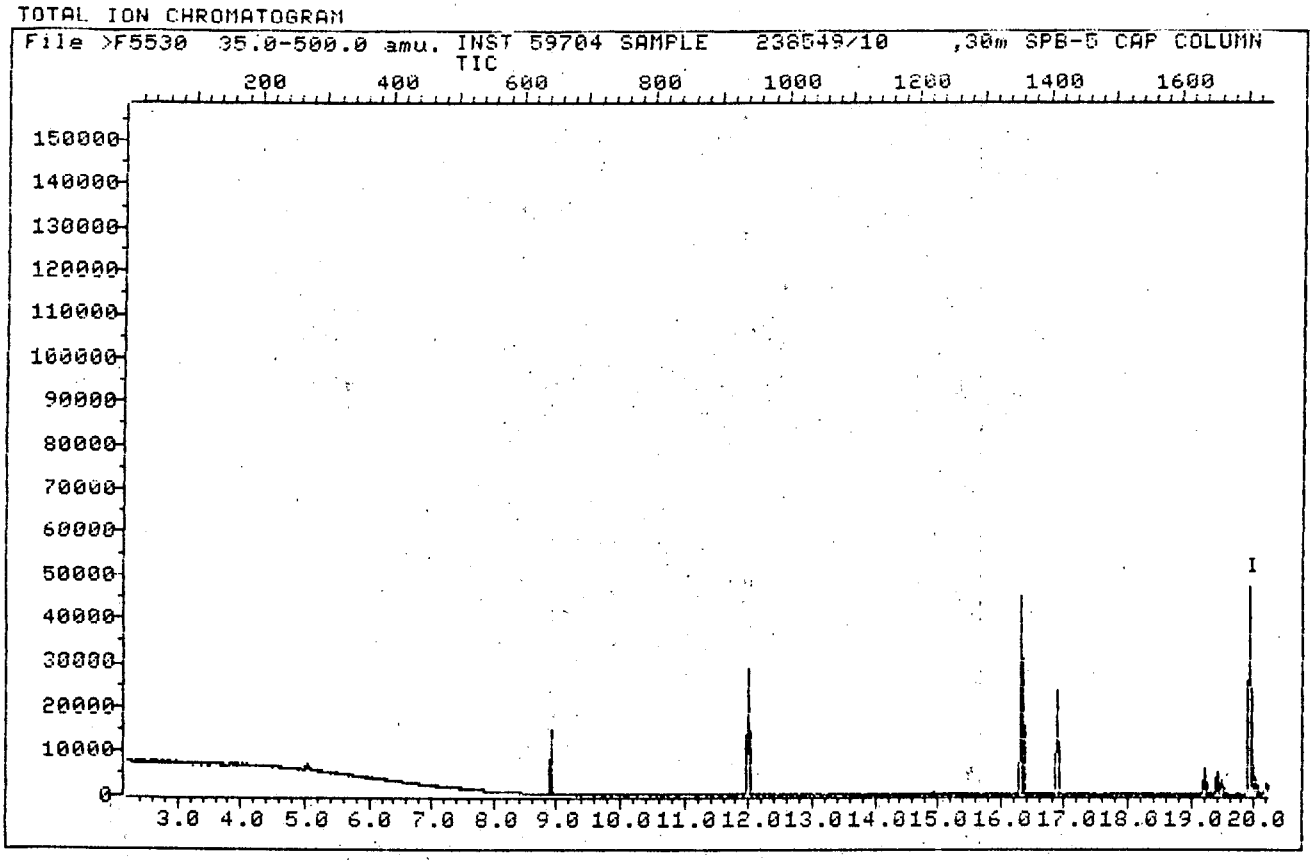
Operator ID: GT0101 Quant Rev: 7 Quant Time: 960709 16:34
Output File: ^F5530::QT Injected at: 960709 15:55
Data File: >F5530::F1 Dilution Factor: 1.00000
Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 238549/10 ,30m SPB-5 CAP COLUMN BTL# 8

ID File: IDPEST::SC
Title: CLP PESTICIDE CONFIRMATION FILE
Last Calibration: : Last Qcal Time: 960705 12:13

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Phenanthrene-d10	19.91	188.0	31892	40.00	UG/ML	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >F5530::F1 Quant Output File: ^F5530::QT
Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 238549/10 ,30m SPB-5 CAP COLUMN BTL# 8

Id File: IDPEST::SC
Title: CLP PESTICIDE CONFIRMATION FILE
Last Calibration: : Last Qcal Time: 960705 12:13

Operator ID: GT0101
Quant Time : 960709 16:34
Injected at: 960709 15:55

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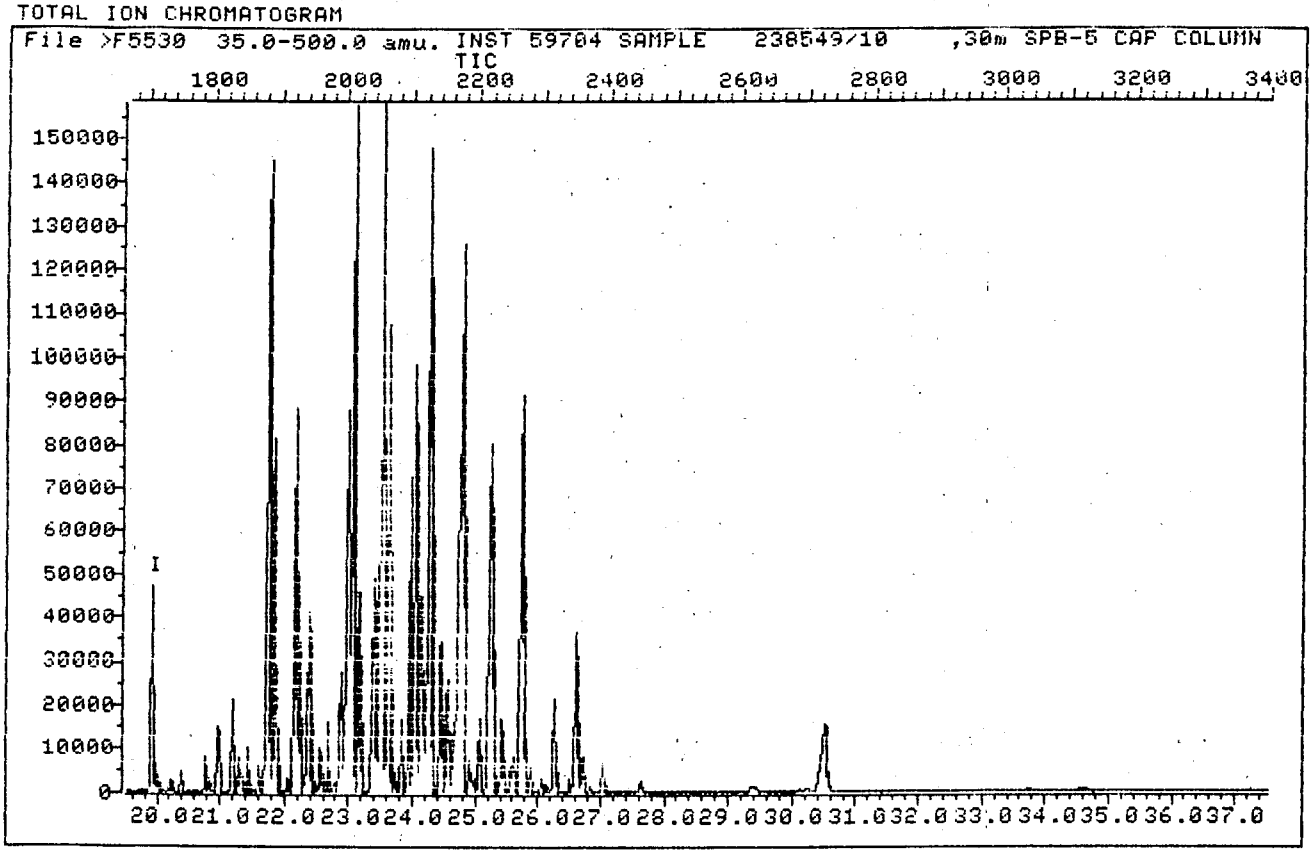
TOTAL ION CHROMATOGRAM

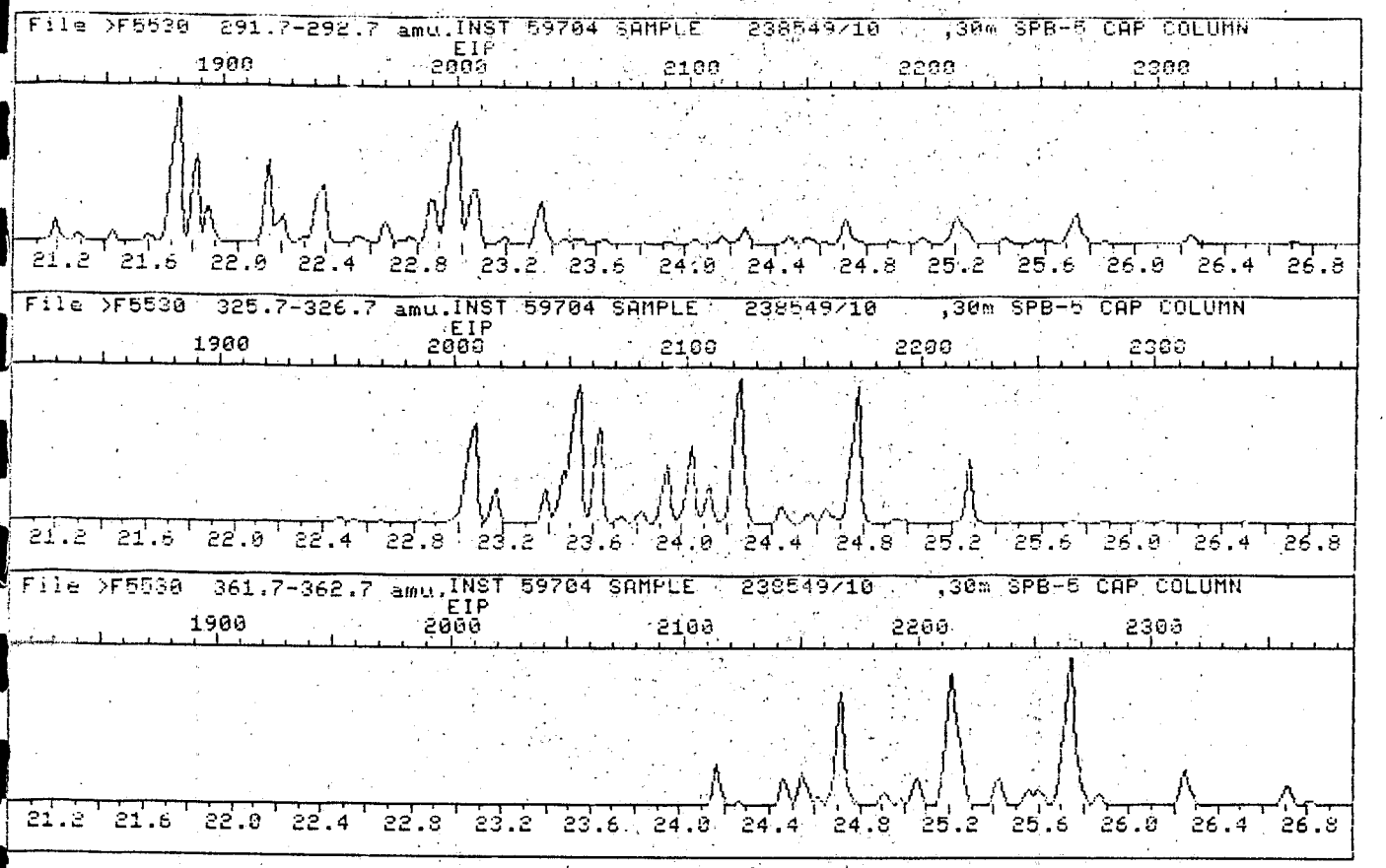


Data File: >F5530::F1 Quant Output File: ^F5530::QT
Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 238549/10 ,30m SPB-5 CAP COLUMN BTL# 8

Id File: IDPEST::SC
Title: CLP PESTICIDE CONFIRMATION FILE
Last Calibration: : Last Qcal Time: 960705 12:13

Operator ID: GT0101
Quant Time : 960709 16:34
Injected at: 960709 15:55

Page 2 of 2



MS data file header from : >F5530::F1

Sample: INST 59704 SAMPLE Operator: GT0101 SUPER GRP. 7/09/96 15:55
Misc : 238549/10 ,30m SPB-5 CAP COLUMN BTL# 8
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 8 Equip ID: INST F
Method file: BNP4 Tuning file: MTA004 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	40.	280.	300.	0.	0.
Chromatographic times, min. :	4.0	1.0	20.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	10.0	0.0	0.0	0.0

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Instrument ID: 5890 3 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB608 ID: .53 (mm) Date(s) Analyzed: 07/01/96 07/02/96

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	12.47	12.47	12.48	12.48	12.43	12.53
beta-BHC	14.79	14.80	14.80	14.80	14.75	14.85
delta-BHC	16.49	16.50	16.50	16.50	16.45	16.55
gamma-BHC (Lindane)	14.36	14.37	14.37	14.36	14.31	14.41
Heptachlor	15.86	15.86	15.86	15.86	15.81	15.91
Aldrin	17.36	17.37	17.37	17.36	17.31	17.41
Heptachlor epoxide	20.03	20.03	20.03	20.03	19.96	20.10
Endosulfan I	21.60	21.60	21.61	21.60	21.53	21.67
Dieldrin	23.03	23.04	23.04	23.04	22.97	23.11
4,4'-DDE	22.83	22.83	22.83	22.83	22.76	22.90
Endrin	24.83	24.83	24.83	24.83	24.76	24.90
Endosulfan II	25.81	25.81	25.81	25.81	25.74	25.88
4,4'-DDD	25.64	25.63	25.63	25.63	25.56	25.70
Endosulfan Sulfate	28.32	28.33	28.33	28.32	28.25	28.39
4,4'-DDT	27.21	27.21	27.21	27.21	27.14	27.28
Methoxychlor	32.46	32.46	32.45	32.46	32.39	32.53
Endrin ketone	32.77	32.78	32.78	32.78	32.71	32.85
Endrin aldehyde	27.62	27.62	27.62	27.62	27.55	27.69
alpha-Chlordane	21.52	21.53	21.53	21.52	21.45	21.59
gamma-Chlordane	20.78	20.78	20.78	20.78	20.71	20.85
Tetrachloro-m-xylene	9.07	9.08	9.08	9.08	9.03	9.13
Decachlorobiphenyl	41.68	41.68	41.68	41.68	41.58	41.78

* 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.: RIN1A

Instrument ID: 5890 3 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB608 ID: .53 (mm) Date(s) Analyzed: 07/01/96 07/02/96

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	136502192	148032592	145773344	143436048	4.3
beta-BHC	91029992	82081448	70496520	81202656	12.7
delta-BHC	104319792	120882992	128089912	117764232	10.3
gamma-BHC (Lindane)	131553392	136655136	133532640	133913720	1.9
Heptachlor	90169992	78024992	71574136	79923040	11.8
Aldrin	143903392	134751392	124230368	134295056	7.3
Heptachlor epoxide	110945192	109843296	101528920	107439136	4.8
Endosulfan I	101810592	121846744	97827272	107161536	12.0
Dieldrin	95646992	94551096	89027496	93075192	3.8
4,4'-DDE	79006296	91479120	89154184	86546536	7.7
Endrin	84632992	85592368	81347232	83857528	2.7
Endosulfan II	92690296	96311920	85648728	91550312	5.9
4,4'-DDD	52893296	57598972	60343032	56945100	6.6
Endosulfan Sulfate	107714792	88634096	75405304	90584728	17.9
4,4'-DDT	60903396	64817220	65291944	63670852	3.8
Methoxychlor	44814576	38824308	31784528	38474472	17.0
Endrin ketone	80744992	90034616	82806304	84528640	5.8
Endrin aldehyde	83787792	78878168	68371448	77012472	10.2
alpha-Chlordane	110738392	137323936	109927616	119329984	13.1
gamma-Chlordane	115568992	117840792	105391968	112933920	5.9
Tetrachloro-m-xylene	132819792	125141088	105068168	121009680	11.8
Decachlorobiphenyl	134693088	119294064	91286856	115091336	19.1

Surrogate calibration factors are measured from Standard Mix A analyses.

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Instrument ID: 5890 3 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB608 ID: .53 (mm) Date(s) Analyzed: 07/13/96 07/14/96

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	12.47	12.47	12.47	12.47	12.42	12.52
beta-BHC	14.79	14.79	14.79	14.79	14.74	14.84
delta-BHC	16.49	16.49	16.49	16.49	16.44	16.54
gamma-BHC (Lindane)	14.36	14.36	14.36	14.36	14.31	14.41
Heptachlor	15.86	15.85	15.86	15.86	15.81	15.91
Aldrin	17.36	17.36	17.36	17.36	17.31	17.41
Heptachlor epoxide	20.03	20.03	20.03	20.03	19.96	20.10
Endosulfan I	21.60	21.60	21.59	21.60	21.53	21.67
Dieldrin	23.03	23.03	23.03	23.03	22.96	23.10
4,4'-DDE	22.82	22.82	22.82	22.82	22.75	22.89
Endrin	24.82	24.83	24.82	24.82	24.75	24.89
Endosulfan II	25.80	25.80	25.80	25.80	25.73	25.87
4,4'-DDD	25.62	25.62	25.61	25.62	25.55	25.69
Endosulfan Sulfate	28.31	28.31	28.30	28.31	28.24	28.38
4,4'-DDT	27.20	27.20	27.19	27.20	27.13	27.27
Methoxychlor	32.45	32.44	32.44	32.44	32.37	32.51
Endrin ketone	32.76	32.76	32.76	32.76	32.69	32.83
Endrin aldehyde	27.61	27.61	27.60	27.61	27.54	27.68
alpha-Chlordane	21.52	21.52	21.52	21.52	21.45	21.59
gamma-Chlordane	20.78	20.78	20.77	20.77	20.70	20.84
Tetrachloro-m-xylene	9.07	9.08	9.07	9.08	9.03	9.13
Decachlorobiphenyl	41.66	41.66	41.65	41.66	41.56	41.76

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are +- 0.05 minutes for all compounds that elute before Heptachlor epoxide, +-0.07 minutes for all other compounds, except +-0.10 minutes for Decachlorobiphenyl.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Instrument ID: 5890 3 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB608 ID: .53 (mm) Date(s) Analyzed: 07/13/96 07/14/96

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	139166784	149030096	150224432	146140432	4.2
beta-BHC	87432792	81796048	74115216	81114688	8.2
delta-BHC	107453192	128611992	140246192	125437128	13.3
gamma-BHC (Lindane)	132915592	138559648	138687760	136720992	2.4
Heptachlor	113586792	105056240	97047456	105230160	7.9
Aldrin	127433392	133515640	130916064	130621696	2.3
Heptachlor epoxide	120872592	124844592	116590416	120769200	3.4
Endosulfan I	107652192	106137896	99250768	104346952	4.3
Dieldrin	93089592	94336016	91583768	93003128	1.5
4,4'-DDE	89120592	92339168	94888144	92115968	3.1
Endrin	87520296	87405344	83656544	86194064	2.6
Endosulfan II	94486592	98955864	91086040	94842832	4.2
4,4'-DDD	55869296	61292544	64706956	60622932	7.4
Endosulfan Sulfate	90223992	87938792	80547968	86236920	5.9
4,4'-DDT	62348596	67930696	69172896	66484064	5.5
Methoxychlor	44638256	39765376	32273032	38892220	16.0
Endrin ketone	85922392	92735368	88770584	89142784	3.8
Endrin aldehyde	83449696	80894848	72533904	78959480	7.2
alpha-Chlordane	117256992	120503992	112715264	116825416	3.3
gamma-Chlordane	119727792	120915488	113449064	118030784	3.4
Tetrachloro-m-xylene	124269992	119626592	104993768	115930968	9.2
Decachlorobiphenyl	124524288	115518288	93759304	110645632	15.2

* Surrogate calibration factors are measured from Standard Mix A analyses.

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Instrument ID: 5890 3 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB1701 ID: .53 (mm) Date(s) Analyzed: 07/01/96 07/02/96

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	13.42	13.43	13.43	13.43	13.38	13.48
beta-BHC	18.63	18.63	18.63	18.63	18.58	18.68
delta-BHC	19.70	19.71	19.71	19.71	19.66	19.76
gamma-BHC (Lindane)	15.27	15.27	15.27	15.27	15.22	15.32
Heptachlor	16.31	16.31	16.31	16.31	16.26	16.36
Aldrin	17.57	17.58	17.58	17.57	17.52	17.62
Heptachlor epoxide	20.54	20.55	20.55	20.55	20.48	20.62
Endosulfan I	21.76	21.76	21.77	21.76	21.69	21.83
Dieldrin	23.40	23.41	23.41	23.41	23.34	23.48
4,4'-DDE	22.77	22.77	22.76	22.77	22.70	22.84
Endrin	24.37	24.37	24.38	24.37	24.30	24.44
Endosulfan II	26.75	26.75	26.74	26.75	26.68	26.82
4,4'-DDD	26.55	26.54	26.53	26.54	26.47	26.61
Endosulfan Sulfate	30.61	30.61	30.60	30.61	30.54	30.68
4,4'-DDT	27.44	27.44	27.43	27.44	27.37	27.51
Methoxychlor	30.87	30.85	30.84	30.86	30.79	30.93
Endrin ketone	32.94	32.94	32.94	32.94	32.87	33.01
Endrin aldehyde	28.86	28.87	28.87	28.87	28.80	28.94
alpha-Chlordane	22.24	22.24	22.24	22.24	22.17	22.31
gamma-Chlordane	21.98	21.99	21.99	21.99	21.92	22.06
Tetrachloro-m-xylene	9.31	9.31	9.32	9.31	9.26	9.36
Decachlorobiphenyl	38.71	38.71	38.71	38.71	38.61	38.81

* 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.: RIN1A

Instrument ID: 5890 3 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB1701 ID: .53 (mm) Date(s) Analyzed: 07/01/96 07/02/96

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	29559198	32765098	41817424	34713908	18.3
beta-BHC	31999198	26275548	24588486	27621078	14.1
delta-BHC	18829998	24371998	32896236	25366078	27.9
gamma-BHC (Lindane)	29479198	34004196	41127684	34870360	16.8
Heptachlor	50449196	47429396	43918608	47265732	6.9
Aldrin	35125996	37660596	39797496	37528028	6.2
Heptachlor epoxide	43408396	43669448	41093508	42723784	3.3
Endosulfan I	33817596	35705448	33736684	34419908	3.2
Dieldrin	31026198	32474672	33003178	32168016	3.2
4,4'-DDE	26388098	27759724	30402492	28183438	7.2
Endrin	28097698	28988348	29600722	28895590	2.6
Endosulfan II	38164296	35790224	33039686	35664736	7.2
4,4'-DDD	13454400	21130898	21156042	18580446	23.9
Endosulfan Sulfate	23535398	26456774	26803230	25598468	7.0
4,4'-DDT	12496000	16479400	18786930	15920776	20.0
Methoxychlor	14498120	13459824	12058924	13338956	9.2
Endrin ketone	24910998	28157848	30167942	27745596	9.6
Endrin aldehyde	25937898	30385522	28530248	28284556	7.9
alpha-Chlordane	38301796	41704248	39382024	39796024	4.4
gamma-Chlordane	38188996	39962948	38054536	38735492	2.7
Tetrachloro-m-xylene	41859196	41414596	38832772	40702188	4.0
Decachlorobiphenyl	50078096	46698220	37818972	44865096	14.1

* Surrogate calibration factors are measured from Standard Mix A analyses.

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Instrument ID: 5890 3 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB1701 ID: .53 (mm) Date(s) Analyzed: 07/13/96 07/14/96

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	13.42	13.42	13.42	13.42	13.37	13.47
beta-BHC	18.63	18.63	18.63	18.63	18.58	18.68
delta-BHC	19.70	19.70	19.70	19.70	19.65	19.75
gamma-BHC (Lindane)	15.27	15.27	15.27	15.27	15.22	15.32
Heptachlor	16.31	16.31	16.31	16.31	16.26	16.36
Aldrin	17.57	17.58	17.57	17.57	17.52	17.62
Heptachlor epoxide	20.54	20.54	20.54	20.54	20.47	20.61
Endosulfan I	21.76	21.76	21.76	21.76	21.69	21.83
Dieldrin	23.40	23.40	23.41	23.40	23.33	23.47
4,4'-DDE	22.76	22.76	22.75	22.76	22.69	22.83
Endrin	24.37	24.37	24.36	24.37	24.30	24.44
Endosulfan II	26.74	26.74	26.74	26.74	26.67	26.81
4,4'-DDD	26.54	26.53	26.51	26.52	26.45	26.59
Endosulfan Sulfate	30.59	30.59	30.59	30.59	30.52	30.66
4,4'-DDT	27.44	27.43	27.42	27.43	27.36	27.50
Methoxychlor	30.86	30.84	30.83	30.84	30.77	30.91
Endrin ketone	32.94	32.93	32.92	32.93	32.86	33.00
Endrin aldehyde	28.86	28.85	28.85	28.86	28.79	28.93
alpha-Chlordane	22.23	22.24	22.23	22.24	22.17	22.31
gamma-Chlordane	21.98	21.98	21.98	21.98	21.91	22.05
Tetrachloro-m-xylene	9.31	9.31	9.31	9.31	9.26	9.36
Decachlorobiphenyl	38.71	38.71	38.69	38.71	38.61	38.81

* 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.: RIN1A

Instrument ID: 5890 3 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB1701 ID: .53 (mm) Date(s) Analyzed: 07/13/96 07/14/96

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	29519998	32544248	42589708	34884652	19.6
beta-BHC	26702398	25094198	26164560	25987052	3.2
delta-BHC	21662198	26227198	36349908	28079768	26.8
gamma-BHC (Lindane)	30737598	34010948	42258784	35669112	16.6
Heptachlor	49559196	46779448	44680884	47006508	5.2
Aldrin	34708596	37445196	40739848	37631212	8.0
Heptachlor epoxide	45320596	43188248	42264196	43591012	3.6
Endosulfan I	33540198	34893348	34730924	34388156	2.1
Dieldrin	30552998	32086448	33880440	32173296	5.2
4,4'-DDE	27366698	28281322	31574016	29074012	7.6
Endrin	30546498	29038122	30444736	30009786	2.8
Endosulfan II	29930498	34235172	35105212	33090294	8.4
4,4'-DDD	16056700	19222174	21146042	18808304	13.7
Endosulfan Sulfate	24076898	27437674	28344030	26619534	8.4
4,4'-DDT	14671600	17477148	20078568	17409104	15.5
Methoxychlor	13084860	13385650	12513252	12994586	3.4
Endrin ketone	37138896	31719848	32209878	33689540	8.9
Endrin aldehyde	32996498	31991872	29920254	31636208	5.0
alpha-Chlordane	39076796	41663096	40761272	40500388	3.2
gamma-Chlordane	38661796	40069148	39468460	39399800	1.8
Tetrachloro-m-xylene	42469996	40913796	39499384	40805360	4.2
Decachlorobiphenyl	47494896	45860448	39589652	44031948	10.6

* 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.: RIN1A

Instrument ID: 5890 3 Date(s) Analyzed: 07/01/96 07/01/96

GC Column: DB608 ID: .53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	.50	*1	23.72	23.65	23.79	1603725
		*2	27.58	27.51	27.65	1840147
		*3	28.32	28.25	28.39	2499481
		*4	30.47	30.40	30.54	1927823
		5				
Aroclor-1016	.10	*1	12.30	12.23	12.37	2939749
		*2	14.31	14.24	14.38	6536979
		*3	16.03	15.96	16.10	11045729
		*4	16.78	16.71	16.85	3734549
		5	19.02	18.95	19.09	3397659
Aroclor-1221	.20	*1	7.91	7.84	7.98	835399
		*2	11.27	11.20	11.34	1680299
		*3	12.30	12.23	12.37	3816139
		4				
		5				
Aroclor-1232	.10	*1	12.30	12.23	12.37	2864819
		*2	14.31	14.24	14.38	2822039
		*3	16.02	15.95	16.09	4704629
		*4	16.77	16.70	16.84	1721739
		5				
Aroclor-1242	.10	*1	12.29	12.22	12.36	2608309
		*2	14.30	14.23	14.37	5382379
		*3	16.02	15.95	16.09	8913329
		*4	16.77	16.70	16.84	3162919
		5	19.02	18.95	19.09	2988959
Aroclor-1248	.10	*1	16.02	15.95	16.09	7567179
		*2	17.53	17.46	17.60	2608339
		*3	19.02	18.95	19.09	4152639
		*4	20.48	20.41	20.55	4845039
		5	21.74	21.67	21.81	5513279
Aroclor-1254	.10	*1	20.84	20.77	20.91	4741449
		*2	21.14	21.07	21.21	5541869
		*3	22.71	22.64	22.78	1612399
		*4	23.54	23.47	23.61	6071089
		5	24.86	24.79	24.93	3585619
Aroclor-1260	.10	*1	24.41	24.34	24.48	7752049
		*2	24.87	24.80	24.94	7004379
		*3	26.59	26.52	26.66	5220249
		*4	30.18	30.11	30.25	10804659
		5	32.94	32.87	33.01	5520999

* Denotes required peaks

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Instrument ID: 5890 3 Date(s) Analyzed: 07/13/96 07/13/96

GC Column: DB608 ID: .53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	.50	*1	23.71	23.64	23.78	1597819
		*2	27.57	27.50	27.64	1671529
		*3	28.31	28.24	28.38	2121001
		*4	30.46	30.39	30.53	1953381
		5				
Aroclor-1016	.10	*1	12.29	12.22	12.36	2856829
		*2	14.30	14.23	14.37	5806449
		*3	16.02	15.95	16.09	11174819
		*4	16.77	16.70	16.84	3849539
		5	19.01	18.94	19.08	3382329
Aroclor-1221	.20	*1	7.90	7.83	7.97	859734
		*2	11.26	11.19	11.33	1625099
		*3	12.29	12.22	12.36	3707089
		4				
		5				
Aroclor-1232	.10	*1	12.29	12.22	12.36	2691479
		*2	14.30	14.23	14.37	2804609
		*3	16.02	15.95	16.09	4667139
		*4	16.77	16.70	16.84	1747649
		5				
Aroclor-1242	.10	*1	12.29	12.22	12.36	2426509
		*2	14.30	14.23	14.37	4629069
		*3	16.02	15.95	16.09	8867859
		*4	16.77	16.70	16.84	3310499
		5	19.01	18.94	19.08	2925269
Aroclor-1248	.10	*1	16.02	15.95	16.09	7533509
		*2	17.53	17.46	17.60	3192969
		*3	19.01	18.94	19.08	4112259
		*4	20.47	20.40	20.54	4355619
		5	21.73	21.66	21.80	4379529
Aroclor-1254	.10	*1	20.83	20.76	20.90	4974929
		*2	21.13	21.06	21.20	5848129
		*3	22.71	22.64	22.78	1847169
		*4	23.53	23.46	23.60	6462899
		5	24.85	24.78	24.92	3654499
Aroclor-1260	.10	*1	24.39	24.32	24.46	6401869
		*2	24.85	24.78	24.92	7124199
		*3	26.57	26.50	26.64	4603429
		*4	30.16	30.09	30.23	10952859
		5	32.92	32.85	32.99	4973399

* Denotes required peaks

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Instrument ID: 5890 3 Date(s) Analyzed: 07/01/96 07/01/96

GC Column: DB1701 ID: .53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	.50	*1	25.17	25.10	25.24	538177
		*2	28.39	28.32	28.46	720739
		*3	30.37	30.30	30.44	492869
		*4	31.80	31.73	31.87	501793
		5				
Aroclor-1016	.10	*1	12.08	12.01	12.15	1235009
		*2	13.85	13.78	13.92	2444729
		*3	15.98	15.91	16.05	3879129
		*4	16.55	16.48	16.62	1456319
		5	18.57	18.50	18.64	2060679
Aroclor-1221	.20	*1	7.58	7.51	7.65	790829
		*2	11.07	11.00	11.14	655909
		*3	12.08	12.01	12.15	1715234
		4				
		5				
Aroclor-1232	.10	*1	7.57	7.50	7.64	1190789
		*2	12.08	12.01	12.15	1171499
		*3	13.85	13.78	13.92	1029699
		*4	15.98	15.91	16.05	1562149
		5				
Aroclor-1242	.10	*1	12.08	12.01	12.15	1057989
		*2	13.85	13.78	13.92	1986309
		*3	15.98	15.91	16.05	3083169
		*4	16.55	16.48	16.62	1142979
		5	17.47	17.40	17.54	791239
Aroclor-1248	.10	*1	13.85	13.78	13.92	1064499
		*2	15.98	15.91	16.05	2612279
		*3	18.57	18.50	18.64	2463679
		*4	18.99	18.92	19.06	1765359
		5	20.36	20.29	20.43	959799
Aroclor-1254	.10	*1	17.46	17.39	17.53	1588639
		*2	20.29	20.22	20.36	2033159
		*3	21.13	21.06	21.20	1834009
		*4	23.11	23.04	23.18	2549699
		5	23.78	23.71	23.85	1356259
Aroclor-1260	.10	*1	23.78	23.71	23.85	2310329
		*2	24.92	24.85	24.99	2715109
		*3	28.45	28.38	28.52	1774839
		*4	30.07	30.00	30.14	3931579
		5	32.05	31.98	32.12	2483449

* Denotes required peaks

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

Instrument ID: 5890 3 Date(s) Analyzed: 07/13/96 07/13/96

GC Column: DB1701 ID: .53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	.50	*1	25.17	25.10	25.24	553527
		*2	28.38	28.31	28.45	677123
		*3	30.37	30.30	30.44	539385
		*4	31.79	31.72	31.86	518293
		5				
Aroclor-1016	.10	*1	12.07	12.00	12.14	1211349
		*2	13.84	13.77	13.91	2470189
		*3	15.97	15.90	16.04	4018559
		*4	16.53	16.46	16.60	1538009
		5	18.56	18.49	18.63	1953989
Aroclor-1221	.20	*1	7.58	7.51	7.65	764409
		*2	11.07	11.00	11.14	651794
		*3	12.07	12.00	12.14	1695619
		4				
		5				
Aroclor-1232	.10	*1	7.56	7.49	7.63	1103849
		*2	12.07	12.00	12.14	1135489
		*3	13.85	13.78	13.92	997979
		*4	15.97	15.90	16.04	1628019
		5				
Aroclor-1242	.10	*1	12.07	12.00	12.14	1027309
		*2	13.84	13.77	13.91	1933639
		*3	15.97	15.90	16.04	3152499
		*4	16.54	16.47	16.61	1170869
		5	17.47	17.40	17.54	854829
Aroclor-1248	.10	*1	13.84	13.77	13.91	1027939
		*2	15.97	15.90	16.04	2700939
		*3	18.56	18.49	18.63	2420489
		*4	18.98	18.91	19.05	1830429
		5	20.34	20.27	20.41	1140799
Aroclor-1254	.10	*1	17.46	17.39	17.53	1585559
		*2	20.29	20.22	20.36	2148739
		*3	21.13	21.06	21.20	1837609
		*4	23.09	23.02	23.16	2597849
		5	23.78	23.71	23.85	1422389
Aroclor-1260	.10	*1	23.78	23.71	23.85	2481529
		*2	24.90	24.83	24.97	2854619
		*3	28.44	28.37	28.51	1663069
		*4	30.05	29.98	30.12	4277559
		5	32.03	31.96	32.10	2689029

* Denotes required peaks

6G

PESTICIDE ANALYTE RESOLUTION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/01/96 Time Analyzed (1): 13:49

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.08	100.00
02	gamma-Chlordane	20.78	100.00
03	Endosulfan I	21.61	100.00
04	4,4'-DDE	22.83	86.00
05	Dieldrin	23.05	100.00
06	Endosulfan Sulfate	28.33	100.00
07	Methoxychlor	32.47	83.00
08	Endrin ketone	32.79	100.00
09	Decachlorobiphenyl	41.69	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/01/96 Time Analyzed (2): 13:49

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.32	100.00
02	Endosulfan I	21.77	100.00
03	gamma-Chlordane	21.99	100.00
04	4,4'-DDE	22.76	100.00
05	Dieldrin	23.42	100.00
06	Endosulfan Sulfate	30.61	86.00
07	Methoxychlor	30.86	100.00
08	Endrin ketone	32.95	100.00
09	Decachlorobiphenyl	38.72	

6G

PESTICIDE ANALYTE RESOLUTION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/13/96 Time Analyzed (1): 14:40

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	gamma-Chlordane	20.77	100.00
03	Endosulfan I	21.59	100.00
04	4,4'-DDE	22.82	92.00
05	Dieldrin	23.03	100.00
06	Endosulfan Sulfate	28.30	100.00
07	Methoxychlor	32.44	90.00
08	Endrin ketone	32.76	100.00
09	Decachlorobiphenyl	41.65	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/13/96 Time Analyzed (2): 14:40

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.31	100.00
02	Endosulfan I	21.76	95.00
03	gamma-Chlordane	21.98	100.00
04	4,4'-DDE	22.75	100.00
05	Dieldrin	23.41	100.00
06	Endosulfan Sulfate	30.59	86.00
07	Methoxychlor	30.84	100.00
08	Endrin ketone	32.93	100.00
09	Decachlorobiphenyl	38.70	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: E1-02

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/01/96 Time Analyzed (1): 14:46

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.08	100.00
02	alpha-BHC	12.48	100.00
03	gamma-BHC (Lindane)	14.37	100.00
04	beta-BHC	14.80	100.00
05	Endrin	24.83	100.00
06	4,4'-DDT	27.21	100.00
07	Methoxychlor	32.45	100.00
08	Decachlorobiphenyl	41.68	

GC Column (2): DB1701 ID: .00 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/01/96 Time Analyzed (2): 14:46

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.32	100.00
02	alpha-BHC	13.43	100.00
03	gamma-BHC (Lindane)	15.27	100.00
04	beta-BHC	18.63	100.00
05	Endrin	24.37	100.00
06	4,4'-DDT	27.43	100.00
07	Methoxychlor	30.84	100.00
08	Decachlorobiphenyl	38.70	

6H

PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/02/96 Time Analyzed (1): 04:57

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.08	100.00
02	alpha-BHC	12.47	100.00
03	gamma-BHC (Lindane)	14.37	100.00
04	beta-BHC	14.80	100.00
05	Endrin	24.83	100.00
06	4,4'-DDT	27.22	100.00
07	Methoxychlor	32.46	100.00
08	Decachlorobiphenyl	41.69	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/02/96 Time Analyzed (2): 04:57

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.32	100.00
02	alpha-BHC	13.43	100.00
03	gamma-BHC (Lindane)	15.28	100.00
04	beta-BHC	18.64	100.00
05	Endrin	24.38	100.00
06	4,4'-DDT	27.44	100.00
07	Methoxychlor	30.86	100.00
08	Decachlorobiphenyl	38.73	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/03/96 Time Analyzed (1): 01:50

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.08	100.00
02	alpha-BHC	12.47	100.00
03	gamma-BHC (Lindane)	14.37	100.00
04	beta-BHC	14.79	100.00
05	Endrin	24.83	100.00
06	4,4'-DDT	27.21	100.00
07	Methoxychlor	32.46	100.00
08	Decachlorobiphenyl	41.68	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/03/96 Time Analyzed (2): 01:50

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.31	100.00
02	alpha-BHC	13.43	100.00
03	gamma-BHC (Lindane)	15.27	100.00
04	beta-BHC	18.63	100.00
05	Endrin	24.38	100.00
06	4,4'-DDT	27.44	100.00
07	Methoxychlor	30.86	100.00
08	Decachlorobiphenyl	38.72	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): PEM04 Lab Sample ID (1): PEM04

Date Analyzed (1): 07/04/96 Time Analyzed (1): 01:12

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.08	100.00
02	alpha-BHC	12.47	100.00
03	gamma-BHC (Lindane)	14.37	100.00
04	beta-BHC	14.80	100.00
05	Endrin	24.83	100.00
06	4,4'-DDT	27.21	100.00
07	Methoxychlor	32.47	100.00
08	Decachlorobiphenyl	41.69	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): PEM04 Lab Sample ID (2): PEM04

Date Analyzed (2): 07/04/96 Time Analyzed (2): 01:12

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.32	100.00
02	alpha-BHC	13.43	100.00
03	gamma-BHC (Lindane)	15.27	100.00
04	beta-BHC	18.63	100.00
05	Endrin	24.38	100.00
06	4,4'-DDT	27.44	100.00
07	Methoxychlor	30.86	100.00
08	Decachlorobiphenyl	38.73	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/06/96 Time Analyzed (1): 12:38

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	alpha-BHC	12.47	100.00
03	gamma-BHC (Lindane)	14.36	100.00
04	beta-BHC	14.79	100.00
05	Endrin	24.83	100.00
06	4,4'-DDT	27.20	100.00
07	Methoxychlor	32.44	100.00
08	Decachlorobiphenyl	41.67	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/06/96 Time Analyzed (2): 12:38

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.31	100.00
02	alpha-BHC	13.42	100.00
03	gamma-BHC (Lindane)	15.27	100.00
04	beta-BHC	18.63	100.00
05	Endrin	24.37	100.00
06	4,4'-DDT	27.43	100.00
07	Methoxychlor	30.84	100.00
08	Decachlorobiphenyl	38.70	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/07/96 Time Analyzed (1): 08:32

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	alpha-BHC	12.47	100.00
03	gamma-BHC (Lindane)	14.37	100.00
04	beta-BHC	14.79	100.00
05	Endrin	24.83	100.00
06	4,4'-DDT	27.21	100.00
07	Methoxychlor	32.45	100.00
08	Decachlorobiphenyl	41.67	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/07/96 Time Analyzed (2): 08:32

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.30	100.00
02	alpha-BHC	13.42	100.00
03	gamma-BHC (Lindane)	15.27	100.00
04	beta-BHC	18.63	100.00
05	Endrin	24.37	100.00
06	4,4'-DDT	27.43	100.00
07	Methoxychlor	30.84	100.00
08	Decachlorobiphenyl	38.70	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/09/96 Time Analyzed (1): 14:09

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.09	100.00
02	alpha-BHC	12.49	100.00
03	gamma-BHC (Lindane)	14.37	100.00
04	beta-BHC	14.80	100.00
05	Endrin	24.83	100.00
06	4,4'-DDT	27.21	100.00
07	Methoxychlor	32.45	100.00
08	Decachlorobiphenyl	41.68	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/09/96 Time Analyzed (2): 14:09

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.31	100.00
02	alpha-BHC	13.42	100.00
03	gamma-BHC (Lindane)	15.27	100.00
04	beta-BHC	18.63	100.00
05	Endrin	24.38	100.00
06	4,4'-DDT	27.43	100.00
07	Methoxychlor	30.84	100.00
08	Decachlorobiphenyl	38.73	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/10/96 Time Analyzed (1): 09:11

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.09	100.00
02	alpha-BHC	12.48	100.00
03	gamma-BHC (Lindane)	14.37	100.00
04	beta-BHC	14.79	100.00
05	Endrin	24.83	100.00
06	4,4'-DDT	27.20	100.00
07	Methoxychlor	32.44	100.00
08	Decachlorobiphenyl	41.68	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/10/96 Time Analyzed (2): 09:11

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.30	100.00
02	alpha-BHC	13.42	100.00
03	gamma-BHC (Lindane)	15.27	100.00
04	beta-BHC	18.62	100.00
05	Endrin	24.36	100.00
06	4,4'-DDT	27.42	100.00
07	Methoxychlor	30.84	100.00
08	Decachlorobiphenyl	38.71	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/11/96 Time Analyzed (1): 05:17

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	alpha-BHC	12.47	100.00
03	gamma-BHC (Lindane)	14.35	100.00
04	beta-BHC	14.78	100.00
05	Endrin	24.81	100.00
06	4,4'-DDT	27.18	100.00
07	Methoxychlor	32.42	100.00
08	Decachlorobiphenyl	41.62	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/11/96 Time Analyzed (2): 05:17

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.28	100.00
02	alpha-BHC	13.41	100.00
03	gamma-BHC (Lindane)	15.25	100.00
04	beta-BHC	18.60	100.00
05	Endrin	24.34	100.00
06	4,4'-DDT	27.39	100.00
07	Methoxychlor	30.81	100.00
08	Decachlorobiphenyl	38.66	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/11/96 Time Analyzed (1): 21:14

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	alpha-BHC	12.46	100.00
03	gamma-BHC (Lindane)	14.35	100.00
04	beta-BHC	14.77	100.00
05	Endrin	24.80	100.00
06	4,4'-DDT	27.18	100.00
07	Methoxychlor	32.41	100.00
08	Decachlorobiphenyl	41.62	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/11/96 Time Analyzed (2): 21:14

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.28	100.00
02	alpha-BHC	13.40	100.00
03	gamma-BHC (Lindane)	15.24	100.00
04	beta-BHC	18.60	100.00
05	Endrin	24.33	100.00
06	4,4'-DDT	27.39	100.00
07	Methoxychlor	30.80	100.00
08	Decachlorobiphenyl	38.66	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/12/96 Time Analyzed (1): 16:49

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	alpha-BHC	12.46	100.00
03	gamma-BHC (Lindane)	14.35	100.00
04	beta-BHC	14.77	100.00
05	Endrin	24.80	100.00
06	4,4'-DDT	27.18	100.00
07	Methoxychlor	32.42	100.00
08	Decachlorobiphenyl	41.62	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/12/96 Time Analyzed (2): 16:49

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.29	100.00
02	alpha-BHC	13.41	100.00
03	gamma-BHC (Lindane)	15.25	100.00
04	beta-BHC	18.61	100.00
05	Endrin	24.34	100.00
06	4,4'-DDT	27.39	100.00
07	Methoxychlor	30.81	100.00
08	Decachlorobiphenyl	38.66	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): PEM01A Lab Sample ID (1): PEM01

Date Analyzed (1): 07/13/96 Time Analyzed (1): 15:35

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	alpha-BHC	12.47	100.00
03	gamma-BHC (Lindane)	14.36	100.00
04	beta-BHC	14.79	100.00
05	Endrin	24.82	100.00
06	4,4'-DDT	27.20	100.00
07	Methoxychlor	32.44	100.00
08	Decachlorobiphenyl	41.66	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): PEM01A Lab Sample ID (2): PEM01

Date Analyzed (2): 07/13/96 Time Analyzed (2): 15:35

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.31	100.00
02	alpha-BHC	13.42	100.00
03	gamma-BHC (Lindane)	15.27	100.00
04	beta-BHC	18.63	100.00
05	Endrin	24.37	100.00
06	4,4'-DDT	27.42	100.00
07	Methoxychlor	30.83	100.00
08	Decachlorobiphenyl	38.69	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): PEM02A Lab Sample ID (1): PEM02A

Date Analyzed (1): 07/14/96 Time Analyzed (1): 05:17

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.08	100.00
02	alpha-BHC	12.47	100.00
03	gamma-BHC (Lindane)	14.36	100.00
04	beta-BHC	14.79	100.00
05	Endrin	24.82	100.00
06	4,4'-DDT	27.20	100.00
07	Methoxychlor	32.44	100.00
08	Decachlorobiphenyl	41.66	

Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): PEM02A Lab Sample ID (2): PEM02A

Date Analyzed (2): 07/14/96 Time Analyzed (2): 05:17

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.31	100.00
02	alpha-BHC	13.42	100.00
03	gamma-BHC (Lindane)	15.27	100.00
04	beta-BHC	18.63	100.00
05	Endrin	24.37	100.00
06	4,4'-DDT	27.43	100.00
07	Methoxychlor	30.84	100.00
08	Decachlorobiphenyl	38.71	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): PEM03A Lab Sample ID (1): PEM03A

Date Analyzed (1): 07/15/96 Time Analyzed (1): 03:26

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	alpha-BHC	12.46	100.00
03	gamma-BHC (Lindane)	14.35	100.00
04	beta-BHC	14.78	100.00
05	Endrin	24.81	100.00
06	4,4'-DDT	27.19	100.00
07	Methoxychlor	32.44	100.00
08	Decachlorobiphenyl	41.64	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): PEM03A Lab Sample ID (2): PEM03A

Date Analyzed (2): 07/15/96 Time Analyzed (2): 03:26

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.30	100.00
02	alpha-BHC	13.42	100.00
03	gamma-BHC (Lindane)	15.26	100.00
04	beta-BHC	18.62	100.00
05	Endrin	24.35	100.00
06	4,4'-DDT	27.42	100.00
07	Methoxychlor	30.84	100.00
08	Decachlorobiphenyl	38.70	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): PEM04A Lab Sample ID (1): PEM04A

Date Analyzed (1): 07/16/96 Time Analyzed (1): 00:31

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.08	100.00
02	alpha-BHC	12.47	100.00
03	gamma-BHC (Lindane)	14.37	100.00
04	beta-BHC	14.79	100.00
05	Endrin	24.83	100.00
06	4,4'-DDT	27.20	100.00
07	Methoxychlor	32.45	100.00
08	Decachlorobiphenyl	41.68	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): PEM04A Lab Sample ID (2): PEM04A

Date Analyzed (2): 07/16/96 Time Analyzed (2): 00:31

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.32	100.00
02	alpha-BHC	13.42	100.00
03	gamma-BHC (Lindane)	15.27	100.00
04	beta-BHC	18.63	100.00
05	Endrin	24.37	100.00
06	4,4'-DDT	27.44	100.00
07	Methoxychlor	30.86	100.00
08	Decachlorobiphenyl	38.73	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): PEM05A Lab Sample ID (1): PEM05A

Date Analyzed (1): 07/16/96 Time Analyzed (1): 20:37

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	alpha-BHC	12.47	100.00
03	gamma-BHC (Lindane)	14.35	100.00
04	beta-BHC	14.78	100.00
05	Endrin	24.81	100.00
06	4,4'-DDT	27.19	100.00
07	Methoxychlor	32.44	100.00
08	Decachlorobiphenyl	41.64	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): PEM05A Lab Sample ID (2): PEM05A

Date Analyzed (2): 07/16/96 Time Analyzed (2): 20:37

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.30	100.00
02	alpha-BHC	13.42	100.00
03	gamma-BHC (Lindane)	15.26	100.00
04	beta-BHC	18.62	100.00
05	Endrin	24.36	100.00
06	4,4'-DDT	27.42	100.00
07	Methoxychlor	30.84	100.00
08	Decachlorobiphenyl	38.69	

6H

PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): PEM06A Lab Sample ID (1): PEM06A

Date Analyzed (1): 07/17/96 Time Analyzed (1): 08:41

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	alpha-BHC	12.47	100.00
03	gamma-BHC (Lindane)	14.36	100.00
04	beta-BHC	14.78	100.00
05	Endrin	24.82	100.00
06	4,4'-DDT	27.19	100.00
07	Methoxychlor	32.43	100.00
08	Decachlorobiphenyl	41.63	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): PEM06A Lab Sample ID (2): PEM06A

Date Analyzed (2): 07/17/96 Time Analyzed (2): 08:41

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.32	100.00
02	alpha-BHC	13.43	100.00
03	gamma-BHC (Lindane)	15.27	100.00
04	beta-BHC	18.63	100.00
05	Endrin	24.37	100.00
06	4,4'-DDT	27.41	100.00
07	Methoxychlor	30.83	100.00
08	Decachlorobiphenyl	38.68	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): PEM07A Lab Sample ID (1): PEM07A

Date Analyzed (1): 07/18/96 Time Analyzed (1): 04:48

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	alpha-BHC	12.47	100.00
03	gamma-BHC (Lindane)	14.36	100.00
04	beta-BHC	14.78	100.00
05	Endrin	24.82	100.00
06	4,4'-DDT	27.19	100.00
07	Methoxychlor	32.44	100.00
08	Decachlorobiphenyl	41.65	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): PEM07A Lab Sample ID (2): PEM07A

Date Analyzed (2): 07/18/96 Time Analyzed (2): 04:48

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.31	100.00
02	alpha-BHC	13.42	100.00
03	gamma-BHC (Lindane)	15.27	100.00
04	beta-BHC	18.46	100.00
05	Endrin	24.36	100.00
06	4,4'-DDT	27.42	100.00
07	Methoxychlor	30.84	100.00
08	Decachlorobiphenyl	38.69	

6H
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): PEM08A Lab Sample ID (1): PEM08A

Date Analyzed (1): 07/22/96 Time Analyzed (1): 09:23

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	alpha-BHC	12.46	100.00
03	gamma-BHC (Lindane)	14.34	100.00
04	beta-BHC	14.77	100.00
05	Endrin	24.80	100.00
06	4,4'-DDT	27.18	100.00
07	Methoxychlor	32.41	100.00
08	Decachlorobiphenyl	41.61	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): PEM08A Lab Sample ID (2): PEM08A

Date Analyzed (2): 07/22/96 Time Analyzed (2): 09:23

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.30	100.00
02	alpha-BHC	13.41	100.00
03	gamma-BHC (Lindane)	15.25	100.00
04	beta-BHC	18.61	100.00
05	Endrin	24.34	100.00
06	4,4'-DDT	27.39	100.00
07	Methoxychlor	30.80	100.00
08	Decachlorobiphenyl	38.66	

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/02/96 Time Analyzed (1): 15:24

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	alpha-BHC	12.47	100.00
03	gamma-BHC (Lindane)	14.36	100.00
04	Heptachlor	15.85	100.00
05	Endosulfan I	21.60	100.00
06	Dieldrin	23.03	100.00
07	Endrin	24.82	100.00
08	4,4'-DDD	25.62	100.00
09	4,4'-DDT	27.20	100.00
10	Methoxychlor	32.44	100.00
11	Decachlorobiphenyl	41.66	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/02/96 Time Analyzed (2): 15:24

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.31	100.00
02	alpha-BHC	13.42	100.00
03	gamma-BHC (Lindane)	15.27	100.00
04	Heptachlor	16.30	100.00
05	Endosulfan I	21.75	100.00
06	Dieldrin	23.40	100.00
07	Endrin	24.36	100.00
08	4,4'-DDD	26.53	100.00
09	4,4'-DDT	27.43	100.00
10	Methoxychlor	30.84	100.00
11	Decachlorobiphenyl	38.69	

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/03/96 Time Analyzed (1): 13:03

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	alpha-BHC	12.47	100.00
03	gamma-BHC (Lindane)	14.37	100.00
04	Heptachlor	15.86	100.00
05	Endosulfan I	21.61	100.00
06	Dieldrin	23.04	100.00
07	Endrin	24.83	100.00
08	4,4'-DDD	25.63	100.00
09	4,4'-DDT	27.21	100.00
10	Methoxychlor	32.46	100.00
11	Decachlorobiphenyl	41.69	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/03/96 Time Analyzed (2): 13:03

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.32	100.00
02	alpha-BHC	13.44	100.00
03	gamma-BHC (Lindane)	15.28	100.00
04	Heptachlor	16.32	100.00
05	Endosulfan I	21.78	100.00
06	Dieldrin	23.43	100.00
07	Endrin	24.38	100.00
08	4,4'-DDD	26.54	100.00
09	4,4'-DDT	27.44	100.00
10	Methoxychlor	30.86	100.00
11	Decachlorobiphenyl	38.72	

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/06/96 Time Analyzed (1): 22:08

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	alpha-BHC	12.47	100.00
03	gamma-BHC (Lindane)	14.36	100.00
04	Heptachlor	15.85	100.00
05	Endosulfan I	21.59	100.00
06	Dieldrin	23.03	100.00
07	Endrin	24.82	100.00
08	4,4'-DDD	25.62	100.00
09	4,4'-DDT	27.20	100.00
10	Methoxychlor	32.44	100.00
11	Decachlorobiphenyl	41.66	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/06/96 Time Analyzed (2): 22:08

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.31	100.00
02	alpha-BHC	13.42	100.00
03	gamma-BHC (Lindane)	15.27	100.00
04	Heptachlor	16.30	100.00
05	Endosulfan I	21.75	100.00
06	Dieldrin	23.40	100.00
07	Endrin	24.36	100.00
08	4,4'-DDD	26.54	100.00
09	4,4'-DDT	27.43	100.00
10	Methoxychlor	30.85	100.00
11	Decachlorobiphenyl	38.70	

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/09/96 Time Analyzed (1): 23:40

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	alpha-BHC	12.46	100.00
03	gamma-BHC (Lindane)	14.35	100.00
04	Heptachlor	15.84	100.00
05	Endosulfan I	21.58	100.00
06	Dieldrin	23.01	100.00
07	Endrin	24.80	100.00
08	4,4'-DDD	25.59	100.00
09	4,4'-DDT	27.17	100.00
10	Methoxychlor	32.41	100.00
11	Decachlorobiphenyl	41.60	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/09/96 Time Analyzed (2): 23:40

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.30	100.00
02	alpha-BHC	13.42	100.00
03	gamma-BHC (Lindane)	15.27	100.00
04	Heptachlor	16.30	100.00
05	Endosulfan I	21.76	100.00
06	Dieldrin	23.40	100.00
07	Endrin	24.37	100.00
08	4,4'-DDD	26.51	100.00
09	4,4'-DDT	27.42	100.00
10	Methoxychlor	30.84	100.00
11	Decachlorobiphenyl	38.69	

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/10/96 Time Analyzed (1): 19:48

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	alpha-BHC	12.47	100.00
03	gamma-BHC (Lindane)	14.35	100.00
04	Heptachlor	15.84	100.00
05	Endosulfan I	21.58	100.00
06	Dieldrin	23.02	100.00
07	Endrin	24.80	100.00
08	4,4'-DDD	25.59	100.00
09	4,4'-DDT	27.18	100.00
10	Methoxychlor	32.42	100.00
11	Decachlorobiphenyl	41.61	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/10/96 Time Analyzed (2): 19:48

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.28	100.00
02	alpha-BHC	13.40	100.00
03	gamma-BHC (Lindane)	15.25	100.00
04	Heptachlor	16.28	100.00
05	Endosulfan I	21.73	100.00
06	Dieldrin	23.38	100.00
07	Endrin	24.33	100.00
08	4,4'-DDD	26.49	100.00
09	4,4'-DDT	27.39	100.00
10	Methoxychlor	30.81	100.00
11	Decachlorobiphenyl	38.66	

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/12/96 Time Analyzed (1): 05:49

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.08	100.00
02	alpha-BHC	12.47	100.00
03	gamma-BHC (Lindane)	14.36	100.00
04	Heptachlor	15.85	100.00
05	Endosulfan I	21.58	100.00
06	Dieldrin	23.02	100.00
07	Endrin	24.81	100.00
08	4,4'-DDD	25.60	100.00
09	4,4'-DDT	27.19	100.00
10	Methoxychlor	32.43	100.00
11	Decachlorobiphenyl	41.63	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/12/96 Time Analyzed (2): 05:49

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.29	100.00
02	alpha-BHC	13.41	100.00
03	gamma-BHC (Lindane)	15.25	100.00
04	Heptachlor	16.29	100.00
05	Endosulfan I	21.74	100.00
06	Dieldrin	23.38	100.00
07	Endrin	24.34	100.00
08	4,4'-DDD	26.49	100.00
09	4,4'-DDT	27.40	100.00
10	Methoxychlor	30.83	100.00
11	Decachlorobiphenyl	38.68	

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): INDAM02A Lab Sample ID (1): INDAM02A

Date Analyzed (1): 07/14/96 Time Analyzed (1): 16:31

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	alpha-BHC	12.47	100.00
03	gamma-BHC (Lindane)	14.36	100.00
04	Heptachlor	15.85	100.00
05	Endosulfan I	21.59	100.00
06	Dieldrin	23.03	100.00
07	Endrin	24.82	100.00
08	4,4'-DDD	25.62	100.00
09	4,4'-DDT	27.19	100.00
10	Methoxychlor	32.44	100.00
11	Decachlorobiphenyl	41.65	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): INDAM02A Lab Sample ID (2): INDAM02A

Date Analyzed (2): 07/14/96 Time Analyzed (2): 16:31

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.31	100.00
02	alpha-BHC	13.42	100.00
03	gamma-BHC (Lindane)	15.27	100.00
04	Heptachlor	16.31	100.00
05	Endosulfan I	21.75	100.00
06	Dieldrin	23.40	100.00
07	Endrin	24.36	100.00
08	4,4'-DDD	26.53	100.00
09	4,4'-DDT	27.43	100.00
10	Methoxychlor	30.84	100.00
11	Decachlorobiphenyl	38.69	

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): INDAM03A Lab Sample ID (1): INDAM03A

Date Analyzed (1): 07/15/96 Time Analyzed (1): 13:31

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	alpha-BHC	12.47	100.00
03	gamma-BHC (Lindane)	14.36	100.00
04	Heptachlor	15.86	100.00
05	Endosulfan I	21.60	100.00
06	Dieldrin	23.03	100.00
07	Endrin	24.83	100.00
08	4,4'-DDD	25.63	100.00
09	4,4'-DDT	27.20	100.00
10	Methoxychlor	32.45	100.00
11	Decachlorobiphenyl	41.66	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): INDAM03A Lab Sample ID (2): INDAM03A

Date Analyzed (2): 07/15/96 Time Analyzed (2): 13:31

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.31	100.00
02	alpha-BHC	13.42	100.00
03	gamma-BHC (Lindane)	15.27	100.00
04	Heptachlor	16.31	100.00
05	Endosulfan I	21.76	100.00
06	Dieldrin	23.41	100.00
07	Endrin	24.37	100.00
08	4,4'-DDD	26.54	100.00
09	4,4'-DDT	27.44	100.00
10	Methoxychlor	30.86	100.00
11	Decachlorobiphenyl	38.72	

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): INDAM04A Lab Sample ID (1): INDAM04A

Date Analyzed (1): 07/16/96 Time Analyzed (1): 10:31

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.08	100.00
02	alpha-BHC	12.47	100.00
03	gamma-BHC (Lindane)	14.36	100.00
04	Heptachlor	15.86	100.00
05	Endosulfan I	21.60	100.00
06	Dieldrin	23.03	100.00
07	Endrin	24.83	100.00
08	4,4'-DDD	25.63	100.00
09	4,4'-DDT	27.20	100.00
10	Methoxychlor	32.45	100.00
11	Decachlorobiphenyl	41.67	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

Sample No. (Standard 2): INDAM04A Lab Sample ID (2): INDAM04A

Date Analyzed (2): 07/16/96 Time Analyzed (2): 10:31

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.31	100.00
02	alpha-BHC	13.43	100.00
03	gamma-BHC (Lindane)	15.27	100.00
04	Heptachlor	16.31	100.00
05	Endosulfan I	21.76	100.00
06	Dieldrin	23.41	100.00
07	Endrin	24.37	100.00
08	4,4'-DDD	26.54	100.00
09	4,4'-DDT	27.44	100.00
10	Methoxychlor	30.85	100.00
11	Decachlorobiphenyl	38.71	

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): INDAM05A Lab Sample ID (1): INDAM05A

Date Analyzed (1): 07/17/96 Time Analyzed (1): 18:47

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	alpha-BHC	12.46	100.00
03	gamma-BHC (Lindane)	14.35	100.00
04	Heptachlor	15.84	100.00
05	Endosulfan I	21.58	100.00
06	Dieldrin	23.02	100.00
07	Endrin	24.80	100.00
08	4,4'-DDD	25.60	100.00
09	4,4'-DDT	27.19	100.00
10	Methoxychlor	32.43	100.00
11	Decachlorobiphenyl	41.62	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): INDAM05A Lab Sample ID (2): INDAM05A

Date Analyzed (2): 07/17/96 Time Analyzed (2): 18:47

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.30	100.00
02	alpha-BHC	13.42	100.00
03	gamma-BHC (Lindane)	15.26	100.00
04	Heptachlor	16.29	100.00
05	Endosulfan I	21.74	100.00
06	Dieldrin	23.38	100.00
07	Endrin	24.35	100.00
08	4,4'-DDD	26.51	100.00
09	4,4'-DDT	27.41	100.00
10	Methoxychlor	30.83	100.00
11	Decachlorobiphenyl	38.67	

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): INDAM06A Lab Sample ID (1): INDAM06

Date Analyzed (1): 07/22/96 Time Analyzed (1): 18:23

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.06	100.00
02	alpha-BHC	12.45	100.00
03	gamma-BHC (Lindane)	14.34	100.00
04	Heptachlor	15.83	100.00
05	Endosulfan I	21.58	100.00
06	Dieldrin	23.01	100.00
07	Endrin	24.79	100.00
08	4,4'-DDD	25.59	100.00
09	4,4'-DDT	27.17	100.00
10	Methoxychlor	32.41	100.00
11	Decachlorobiphenyl	41.60	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): INDAM06A Lab Sample ID (2): INDAM06

Date Analyzed (2): 07/22/96 Time Analyzed (2): 18:23

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.29	100.00
02	alpha-BHC	13.41	100.00
03	gamma-BHC (Lindane)	15.25	100.00
04	Heptachlor	16.28	100.00
05	Endosulfan I	21.73	100.00
06	Dieldrin	23.38	100.00
07	Endrin	24.34	100.00
08	4,4'-DDD	26.49	100.00
09	4,4'-DDT	27.39	100.00
10	Methoxychlor	30.81	100.00
11	Decachlorobiphenyl	38.65	

6J
INDIVIDUAL STANDARD MIXTURE B

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/02/96 Time Analyzed (1): 16:21

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	beta-BHC	14.78	100.00
03	delta-BHC	16.48	100.00
04	Aldrin	17.36	100.00
05	Heptachlor epoxide	20.02	100.00
06	gamma-Chlordane	20.77	100.00
07	alpha-Chlordane	21.52	100.00
08	4,4'-DDE	22.82	100.00
09	Endosulfan II	25.80	100.00
10	Endrin aldehyde	27.60	100.00
11	Endosulfan Sulfate	28.31	100.00
12	Endrin ketone	32.76	100.00
13	Decachlorobiphenyl	41.67	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/02/96 Time Analyzed (2): 16:21

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.31	100.00
02	Aldrin	17.57	100.00
03	beta-BHC	18.63	100.00
04	delta-BHC	19.70	100.00
05	Heptachlor epoxide	20.54	100.00
06	gamma-Chlordane	21.98	98.00
07	alpha-Chlordane	22.23	100.00
08	4,4'-DDE	22.76	100.00
09	Endosulfan II	26.74	100.00
10	Endrin aldehyde	28.86	100.00
11	Endosulfan Sulfate	30.59	100.00
12	Endrin ketone	32.93	100.00
13	Decachlorobiphenyl	38.71	

6J
INDIVIDUAL STANDARD MIXTURE B

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/03/96 Time Analyzed (1): 14:00

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.08	100.00
02	beta-BHC	14.80	100.00
03	delta-BHC	16.50	100.00
04	Aldrin	17.38	100.00
05	Heptachlor epoxide	20.03	100.00
06	gamma-Chlordane	20.78	100.00
07	alpha-Chlordane	21.53	100.00
08	4,4'-DDE	22.83	100.00
09	Endosulfan II	25.82	100.00
10	Endrin aldehyde	27.63	100.00
11	Endosulfan Sulfate	28.34	100.00
12	Endrin ketone	32.79	100.00
13	Decachlorobiphenyl	41.70	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/03/96 Time Analyzed (2): 13:59

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.32	100.00
02	Aldrin	17.58	100.00
03	beta-BHC	18.64	100.00
04	delta-BHC	19.72	100.00
05	Heptachlor epoxide	20.56	100.00
06	gamma-Chlordane	22.00	97.00
07	alpha-Chlordane	22.25	100.00
08	4,4'-DDE	22.78	100.00
09	Endosulfan II	26.76	100.00
10	Endrin aldehyde	28.89	100.00
11	Endosulfan Sulfate	30.62	100.00
12	Endrin ketone	32.96	100.00
13	Decachlorobiphenyl	38.73	

6J

INDIVIDUAL STANDARD MIXTURE B

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/06/96 Time Analyzed (1): 23:05

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	beta-BHC	14.78	100.00
03	delta-BHC	16.48	100.00
04	Aldrin	17.36	100.00
05	Heptachlor epoxide	20.02	100.00
06	gamma-Chlordane	20.78	100.00
07	alpha-Chlordane	21.52	100.00
08	4,4'-DDE	22.83	100.00
09	Endosulfan II	25.80	100.00
10	Endosulfan Sulfate	28.31	100.00
11	Endrin ketone	32.77	100.00
12	Decachlorobiphenyl	41.68	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/06/96 Time Analyzed (2): 23:05

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.31	100.00
02	Aldrin	17.57	100.00
03	beta-BHC	18.63	100.00
04	delta-BHC	19.70	100.00
05	Heptachlor epoxide	20.54	100.00
06	gamma-Chlordane	21.98	98.00
07	alpha-Chlordane	22.23	100.00
08	4,4'-DDE	22.76	100.00
09	Endosulfan II	26.74	100.00
10	Endosulfan Sulfate	30.59	100.00
11	Endrin ketone	32.94	100.00
12	Decachlorobiphenyl	38.72	

6J
INDIVIDUAL STANDARD MIXTURE B

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/10/96 Time Analyzed (1): 00:31

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	beta-BHC	14.77	100.00
03	delta-BHC	16.47	100.00
04	Aldrin	17.34	100.00
05	Heptachlor epoxide	20.00	100.00
06	gamma-Chlordane	20.75	100.00
07	alpha-Chlordane	21.50	100.00
08	4,4'-DDE	22.79	100.00
09	Endosulfan II	25.78	100.00
10	Endrin aldehyde	27.58	100.00
11	Endosulfan Sulfate	28.29	100.00
12	Endrin ketone	32.74	100.00
13	Decachlorobiphenyl	41.61	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/10/96 Time Analyzed (2): 00:31

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.31	100.00
02	Aldrin	17.57	100.00
03	beta-BHC	18.63	100.00
04	delta-BHC	19.70	100.00
05	Heptachlor epoxide	20.54	100.00
06	gamma-Chlordane	21.98	98.00
07	alpha-Chlordane	22.24	100.00
08	4,4'-DDE	22.74	100.00
09	Endosulfan II	26.74	100.00
10	Endrin aldehyde	28.86	100.00
11	Endosulfan Sulfate	30.59	100.00
12	Endrin ketone	32.94	100.00
13			

6J
INDIVIDUAL STANDARD MIXTURE B

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

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

Date Analyzed (1): 07/10/96 Time Analyzed (1): 20:40

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	beta-BHC	14.77	100.00
03	delta-BHC	16.47	100.00
04	Aldrin	17.34	100.00
05	Heptachlor epoxide	20.01	100.00
06	gamma-Chlordane	20.76	100.00
07	alpha-Chlordane	21.50	100.00
08	4,4'-DDE	22.80	100.00
09	Endosulfan II	25.78	100.00
10	Endrin aldehyde	27.59	100.00
11	Endosulfan Sulfate	28.29	100.00
12	Endrin ketone	32.74	100.00
13	Decachlorobiphenyl	41.62	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

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

Date Analyzed (2): 07/10/96 Time Analyzed (2): 20:40

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.28	100.00
02	Aldrin	17.54	100.00
03	beta-BHC	18.60	100.00
04	delta-BHC	19.68	100.00
05	Heptachlor epoxide	20.52	100.00
06	gamma-Chlordane	21.96	98.00
07	alpha-Chlordane	22.21	100.00
08	4,4'-DDE	22.73	100.00
09	Endosulfan II	26.71	100.00
10	Endrin aldehyde	28.82	100.00
11	Endosulfan Sulfate	30.56	100.00
12	Endrin ketone	32.89	100.00
13	Decachlorobiphenyl	38.66	

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): IND6M07 Lab Sample ID (1): IND6M07

Date Analyzed (1): 07/12/96 Time Analyzed (1): 06:41

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.08	100.00
02	beta-BHC	14.78	100.00
03	delta-BHC	16.48	100.00
04	Aldrin	17.35	100.00
05	Heptachlor epoxide	20.02	100.00
06	gamma-Chlordane	20.76	100.00
07	alpha-Chlordane	21.51	100.00
08	4,4'-DDE	22.80	100.00
09	Endosulfan II	25.79	100.00
10	Endrin aldehyde	27.59	100.00
11	Endosulfan Sulfate	28.29	100.00
12	Endrin ketone	32.74	100.00
13	Decachlorobiphenyl	41.63	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): IND8M07 Lab Sample ID (2): IND8M07

Date Analyzed (2): 07/12/96 Time Analyzed (2): 06:41

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.29	100.00
02	Aldrin	17.56	100.00
03	beta-BHC	18.61	100.00
04	delta-BHC	19.68	100.00
05	Heptachlor epoxide	20.53	100.00
06	gamma-Chlordane	21.97	98.00
07	alpha-Chlordane	22.22	100.00
08	4,4'-DDE	22.73	100.00
09	Endosulfan II	26.72	100.00
10	Endrin aldehyde	28.84	100.00
11	Endosulfan Sulfate	30.57	100.00
12	Endrin ketone	32.91	100.00
13	Decachlorobiphenyl	38.68	

6J
INDIVIDUAL STANDARD MIXTURE B

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): INDBM02A Lab Sample ID (1): INDBM02A

Date Analyzed (1): 07/14/96 Time Analyzed (1): 17:26

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	beta-BHC	14.79	100.00
03	delta-BHC	16.48	100.00
04	Aldrin	17.36	100.00
05	Heptachlor epoxide	20.02	100.00
06	gamma-Chlordane	20.77	100.00
07	alpha-Chlordane	21.51	100.00
08	4,4'-DDE	22.82	100.00
09	Endosulfan II	25.80	100.00
10	Endrin aldehyde	27.60	100.00
11	Endosulfan Sulfate	28.30	100.00
12	Endrin ketone	32.76	100.00
13	Decachlorobiphenyl	41.64	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): INDBM02A Lab Sample ID (2): INDBM02A

Date Analyzed (2): 07/14/96 Time Analyzed (2): 17:26

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.31	100.00
02	Aldrin	17.57	100.00
03	beta-BHC	18.62	100.00
04	delta-BHC	19.69	100.00
05	Heptachlor epoxide	20.54	100.00
06	gamma-Chlordane	21.98	100.00
07	alpha-Chlordane	22.23	98.00
08	4,4'-DDE	22.75	100.00
09	Endosulfan II	26.74	100.00
10	Endrin aldehyde	28.85	100.00
11	Endosulfan Sulfate	30.59	100.00
12	Endrin ketone	32.92	100.00
13	Decachlorobiphenyl	38.69	

6J
INDIVIDUAL STANDARD MIXTURE B

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): INDBM03A Lab Sample ID (1): INDBM03A

Date Analyzed (1): 07/15/96 Time Analyzed (1): 14:26

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	beta-BHC	14.79	100.00
03	delta-BHC	16.49	100.00
04	Aldrin	17.36	100.00
05	Heptachlor epoxide	20.03	100.00
06	gamma-Chlordane	20.78	100.00
07	alpha-Chlordane	21.52	100.00
08	4,4'-DDE	22.83	100.00
09	Endosulfan II	25.80	100.00
10	Endrin aldehyde	27.61	100.00
11	Endosulfan Sulfate	28.31	100.00
12	Endrin ketone	32.76	100.00
13	Decachlorobiphenyl	41.67	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): INDBM03A Lab Sample ID (2): INDBM03A

Date Analyzed (2): 07/15/96 Time Analyzed (2): 14:26

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.31	100.00
02	Aldrin	17.58	100.00
03	beta-BHC	18.63	100.00
04	delta-BHC	19.70	100.00
05	Heptachlor epoxide	20.54	100.00
06	gamma-Chlordane	21.98	98.00
07	alpha-Chlordane	22.24	100.00
08	4,4'-DDE	22.76	100.00
09	Endosulfan II	26.74	100.00
10	Endrin aldehyde	28.86	100.00
11	Endosulfan Sulfate	30.59	100.00
12	Endrin ketone	32.93	100.00
13	Decachlorobiphenyl	38.72	

6J
INDIVIDUAL STANDARD MIXTURE B

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): INDBM04A Lab Sample ID (1): INDBM04A

Date Analyzed (1): 07/16/96 Time Analyzed (1): 11:26

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	beta-BHC	14.79	100.00
03	delta-BHC	16.49	100.00
04	Aldrin	17.36	100.00
05	Heptachlor epoxide	20.02	100.00
06	gamma-Chlordane	20.78	100.00
07	alpha-Chlordane	21.52	100.00
08	4,4'-DDE	22.82	100.00
09	Endosulfan II	25.80	100.00
10	Endrin aldehyde	27.61	100.00
11	Endosulfan Sulfate	28.31	100.00
12	Endrin ketone	32.76	100.00
13	Decachlorobiphenyl	41.66	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): INDBM04A Lab Sample ID (2): INDBM04A

Date Analyzed (2): 07/16/96 Time Analyzed (2): 11:26

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.31	100.00
02	Aldrin	17.57	100.00
03	beta-BHC	18.62	100.00
04	delta-BHC	19.70	100.00
05	Heptachlor epoxide	20.54	100.00
06	gamma-Chlordane	21.98	98.00
07	alpha-Chlordane	22.23	100.00
08	4,4'-DDE	22.76	100.00
09	Endosulfan II	26.74	100.00
10	Endrin aldehyde	28.85	100.00
11	Endosulfan Sulfate	30.59	100.00
12	Endrin ketone	32.93	100.00
13	Decachlorobiphenyl	38.71	

6J
INDIVIDUAL STANDARD MIXTURE B

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): INDBM05A Lab Sample ID (1): INDBM05A

Date Analyzed (1): 07/17/96 Time Analyzed (1): 19:42

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.07	100.00
02	beta-BHC	14.77	100.00
03	delta-BHC	16.47	100.00
04	Aldrin	17.34	100.00
05	Heptachlor epoxide	20.01	100.00
06	gamma-Chlordane	20.76	100.00
07	alpha-Chlordane	21.50	100.00
08	4,4'-DDE	22.80	100.00
09	Endosulfan II	25.79	100.00
10	Endrin aldehyde	27.59	100.00
11	Endosulfan Sulfate	28.29	100.00
12	Endrin ketone	32.74	100.00
13	Decachlorobiphenyl	41.63	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): INDBM05A Lab Sample ID (2): INDBM05A

Date Analyzed (2): 07/17/96 Time Analyzed (2): 19:42

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.30	100.00
02	Aldrin	17.56	100.00
03	beta-BHC	18.61	100.00
04	delta-BHC	19.68	100.00
05	Heptachlor epoxide	20.53	100.00
06	gamma-Chlordane	21.97	98.00
07	alpha-Chlordane	22.23	100.00
08	4,4'-DDE	22.73	100.00
09	Endosulfan II	26.72	100.00
10	Endrin aldehyde	28.83	100.00
11	Endosulfan Sulfate	30.56	100.00
12	Endrin ketone	32.90	100.00
13	Decachlorobiphenyl	38.68	

6J
INDIVIDUAL STANDARD MIXTURE B

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): 5890 3

EPA Sample No. (Standard 1): INDBM06A Lab Sample ID (1): INDBM06A

Date Analyzed (1): 07/22/96 Time Analyzed (1): 19:18

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.06	100.00
02	beta-BHC	14.77	100.00
03	delta-BHC	16.47	100.00
04	Aldrin	17.34	100.00
05	Heptachlor epoxide	20.00	100.00
06	gamma-Chlordane	20.75	100.00
07	alpha-Chlordane	21.49	100.00
08	4,4'-DDE	22.79	100.00
09	Endosulfan II	25.78	100.00
10	Endrin aldehyde	27.58	100.00
11	Endosulfan Sulfate	28.28	100.00
12	Endrin ketone	32.73	100.00
13	Decachlorobiphenyl	41.61	

GC Column (2): DB1701 ID: .53 (mm) Instrument ID (2): 5890 3

EPA Sample No. (Standard 2): INDBM06A Lab Sample ID (2): INDBM06A

Date Analyzed (2): 07/22/96 Time Analyzed (2): 19:18

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	9.29	100.00
02	Aldrin	17.55	100.00
03	beta-BHC	18.60	100.00
04	delta-BHC	19.68	100.00
05	Heptachlor epoxide	20.53	100.00
06	gamma-Chlordane	21.97	.00
07	alpha-Chlordane	22.22	100.00
08	4,4'-DDE	22.73	100.00
09	Endosulfan II	26.71	100.00
10	Endrin aldehyde	28.82	100.00
11	Endosulfan Sulfate	30.55	100.00
12	Endrin ketone	32.89	100.00
13	Decachlorobiphenyl	38.66	

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 07/01/96 07/02/96

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

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

EPA Sample No.(PEM): PEM01 Date Analyzed : 07/01/96

LAB Sample ID (PEM): PEM01 Time Analyzed : 14:46

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.48	12.43	12.53	.010	.010	.0
beta-BHC	14.80	14.75	14.85	.009	.010	-10.0
gamma-BHC (Lindane)	14.37	14.31	14.41	.009	.010	-10.0
Endrin	24.83	24.76	24.90	.048	.050	- 4.0
4,4'-DDT	27.21	27.14	27.28	.100	.100	.0
Methoxychlor	32.45	32.39	32.53	.239	.250	- 4.4

4,4'-DDT % breakdown (1): 1.63 Endrin % breakdown (1): 1.98

Combined % breakdown (1): 3.61

	YES	NO	N/A
using the equations given on page D-26/PEST, sec. 9.2.4.8 in the SOW?	[ ]		✓
Were all pesticides and surrogates in each PEM standard within the RT windows established during the Initial Calibration?	[ ]		

ACTION: If no, take action as specified in 3.2 above.

7.11 Has the individual percent breakdown for DDT/Endrin exceeded 20.0% in any PEM on either column? (See Form VII PEST-1.)

- for 4,4'-DDT?		[ ]	✓
- for Endrin?		[ ]	✓
Has the combined percent breakdown for DDT/Endrin exceeded 30.0% in any PEM on either column (required for all PEM analyses)?		[ ]	✓

ACTION: 1. If any percent breakdown has failed the QC criteria in either PEM in steps 2 and 17 in the <u>initial calibration</u> sequence (page D-28/Pest, sec. 9.2.5.6 in the SOW), qualify <u>all samples</u> in the entire analytical sequence as described in sections 2.a, b and c below.

2. If any percent breakdown failed the QC criteria in a PEM <u>calibration verification</u> analysis, review data beginning with the samples which followed the last in-control standard until the next acceptable PEM and qualify the data as described below.

a. <u>4,4'-DDT Breakdown</u>: If DDT breakdown was > 20.0%:

i. Qualify all positive results for DDT with "J". If DDT was not detected, but DDD and DDE are positive, then qualify the quantitation limit for DDT unusable, "R".

ii. Qualify positive results for DDD and/or DDE as presumptively present at an approximated quantity "JN".

7113 210621
7114 210622
7115 210623
7116 210624
7117 210625

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 07/01/96 07/02/96

EPA Sample No.(PIBLK): PIBLK01 Date Analyzed : 07/02/96

LAB Sample ID (PIBLK): PIBLK01 Time Analyzed : 04:00

EPA Sample No.(PEM): PEM02 Date Analyzed : 07/02/96

LAB Sample ID (PEM): PEM02 Time Analyzed : 04:57

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.47	12.43	12.53	.009	.010	-10.0
beta-BHC	14.80	14.75	14.85	.010	.010	.0
gamma-BHC (Lindane)	14.37	14.31	14.41	.009	.010	-10.0
Endrin	24.83	24.76	24.90	.048	.050	- 4.0
4,4'-DDT	27.22	27.14	27.28	.097	.100	- 3.0
Methoxychlor	32.46	32.39	32.53	.231	.250	- 7.6

,4'-DDT % breakdown (1): 2.87 Endrin % breakdown (1): 4.72

Combined % breakdown (1): 7.59

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 07/01/96 07/02/96

EPA Sample No.(PIBLK): PIBLK03 Date Analyzed : 07/03/96

LAB Sample ID (PIBLK): PIBLK03 Time Analyzed : 00:53

EPA Sample No.(PEM): PEM03 Date Analyzed : 07/03/96

LAB Sample ID (PEM): PEM03 Time Analyzed : 01:50

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.47	12.43	12.53	.009	.010	-10.0
beta-BHC	14.79	14.75	14.85	.009	.010	-10.0
gamma-BHC (Lindane)	14.37	14.31	14.41	.010	.010	.0
Endrin	24.83	24.76	24.90	.048	.050	- 4.0
4,4'-DDT	27.21	27.14	27.28	.098	.100	- 2.0
Methoxychlor	32.46	32.39	32.53	.227	.250	- 9.2

4,4'-DDT % breakdown (1): 1.30 Endrin % breakdown (1): .00

Combined % breakdown (1): 1.30

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 07/01/96 07/02/96

EPA Sample No.(PIBLK): PIBLK05 Date Analyzed : 07/04/96

LAB Sample ID (PIBLK): PIBLK05 Time Analyzed : 00:16

EPA Sample No.(PEM): PEM04 Date Analyzed : 07/04/96

LAB Sample ID (PEM): PEM04 Time Analyzed : 01:12

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.47	12.43	12.53	.010	.010	.0
beta-BHC	14.80	14.75	14.85	.010	.010	.0
gamma-BHC (Lindane)	14.37	14.31	14.41	.010	.010	.0
Endrin	24.83	24.76	24.90	.049	.050	- 2.0
4,4'-DDT	27.21	27.14	27.28	.099	.100	- 1.0
Methoxychlor	32.47	32.39	32.53	.231	.250	- 7.6

4,4'-DDT % breakdown (1): 1.47 Endrin % breakdown (1): 0

Combined % breakdown (1): 1.47

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 07/01/96 07/02/96

EPA Sample No.(PIBLK): PIBLK06 Date Analyzed : 07/06/96

LAB Sample ID (PIBLK): PIBLK06 Time Analyzed : 11:41

EPA Sample No.(PEM): PEM05 Date Analyzed : 07/06/96

LAB Sample ID (PEM): PEM05 Time Analyzed : 12:38

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.47	12.43	12.53	.010	.010	.0
beta-BHC	14.79	14.75	14.85	.010	.010	.0
gamma-BHC (Lindane)	14.36	14.31	14.41	.010	.010	.0
Endrin	24.83	24.76	24.90	.050	.050	.0
4,4'-DDT	27.20	27.14	27.28	.104	.100	4.0
Methoxychlor	32.44	32.39	32.53	.240	.250	- 4.0

4,4'-DDT % breakdown (1): 1.65 Endrin % breakdown (1): 2.62

Combined % breakdown (1): 4.27

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 07/01/96 07/02/96

EPA Sample No.(PIBLK): PIBLK10 Date Analyzed : 07/07/96

LAB Sample ID (PIBLK): PIBLK10 Time Analyzed : 07:35

EPA Sample No.(PEM): PEM06 Date Analyzed : 07/07/96

LAB Sample ID (PEM): PEM06 Time Analyzed : 08:32

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.47	12.43	12.53	.010	.010	.0
beta-BHC	14.79	14.75	14.85	.010	.010	.0
gamma-BHC (Lindane)	14.37	14.31	14.41	.010	.010	.0
Endrin	24.83	24.76	24.90	.049	.050	- 2.0
4,4'-DDT	27.21	27.14	27.28	.104	.100	4.0
Methoxychlor	32.45	32.39	32.53	.233	.250	- 6.8

4,4'-DDT % breakdown (1): 1.85 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 1.85

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 07/01/96 07/02/96

EPA Sample No.(PIBLK): PIBLK11 Date Analyzed : 07/09/96

LAB Sample ID (PIBLK): PIBLK11 Time Analyzed : 13:17

EPA Sample No.(PEM): PEM07 Date Analyzed : 07/09/96

LAB Sample ID (PEM): PEM07 Time Analyzed : 14:09

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.49	12.43	12.53	.011	.010	10.0
beta-BHC	14.80	14.75	14.85	.011	.010	10.0
gamma-BHC (Lindane)	14.37	14.31	14.41	.010	.010	.0
Endrin	24.83	24.76	24.90	.053	.050	6.0
4,4'-DDT	27.21	27.14	27.28	.110	.100	10.0
Methoxychlor	32.45	32.39	32.53	.243	.250	- 2.8

4,4'-DDT % breakdown (1): 2.13 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 2.13

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 07/01/96 07/02/96

EPA Sample No.(PIBLK): PIBLK13 Date Analyzed : 07/10/96

LAB Sample ID (PIBLK): PIBLK13 Time Analyzed : 08:19

EPA Sample No.(PEM): PEM08 Date Analyzed : 07/10/96

LAB Sample ID (PEM): PEM08 Time Analyzed : 09:11

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.48	12.43	12.53	.011	.010	10.0
beta-BHC	14.79	14.75	14.85	.011	.010	10.0
gamma-BHC (Lindane)	14.37	14.31	14.41	.011	.010	10.0
Endrin	24.83	24.76	24.90	.053	.050	6.0
4,4'-DDT	27.20	27.14	27.28	.110	.100	10.0
Methoxychlor	32.44	32.39	32.53	.249	.250	- .4

4,4'-DDT % breakdown (1): 2.40 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 2.40

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 07/01/96 07/02/96

EPA Sample No.(PIBLK): PIBLK16 Date Analyzed : 07/11/96

LAB Sample ID (PIBLK): PIBLK16 Time Analyzed : 04:25

EPA Sample No.(PEM): PEM09 Date Analyzed : 07/11/96

LAB Sample ID (PEM): PEM09 Time Analyzed : 05:17

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.47	12.43	12.53	.010	.010	.0
beta-BHC	14.78	14.75	14.85	.010	.010	.0
gamma-BHC (Lindane)	14.35	14.31	14.41	.010	.010	.0
Endrin	24.81	24.76	24.90	.047	.050	- 6.0
4,4'-DDT	27.18	27.14	27.28	.100	.100	.0
Methoxychlor	32.42	32.39	32.53	.228	.250	- 8.8

4,4'-DDT % breakdown (1): 2.94 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 2.94

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 07/01/96 07/02/96

EPA Sample No.(PIBLK): PIBLK17 Date Analyzed : 07/11/96

LAB Sample ID (PIBLK): PIBLK17 Time Analyzed : 20:23

EPA Sample No.(PEM): PEM10 Date Analyzed : 07/11/96

LAB Sample ID (PEM): PEM10 Time Analyzed : 21:14

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.46	12.43	12.53	.010	.010	.0
beta-BHC	14.77	14.75	14.85	.010	.010	.0
gamma-BHC (Lindane)	14.35	14.31	14.41	.010	.010	.0
Endrin	24.80	24.76	24.90	.048	.050	- 4.0
4,4'-DDT	27.18	27.14	27.28	.099	.100	- 1.0
Methoxychlor	32.41	32.39	32.53	.229	.250	- 8.4

4,4'-DDT % breakdown (1): 3.09 Endrin % breakdown (1): 3.72

Combined % breakdown (1): 6.81

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 07/01/96 07/02/96

EPA Sample No.(PIBLK): PIBLK20 Date Analyzed : 07/12/96

LAB Sample ID (PIBLK): PIBLK20 Time Analyzed : 15:55

EPA Sample No.(PEM): PEM11 Date Analyzed : 07/12/96

LAB Sample ID (PEM): PEM11 Time Analyzed : 16:49

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.46	12.43	12.53	.010	.010	.0
beta-BHC	14.77	14.75	14.85	.010	.010	.0
gamma-BHC (Lindane)	14.35	14.31	14.41	.011	.010	10.0
Endrin	24.80	24.76	24.90	.046	.050	- 8.0
4,4'-DDT	27.18	27.14	27.28	.099	.100	- 1.0
Methoxychlor	32.42	32.39	32.53	.219	.250	-12.4

4,4'-DDT % breakdown (1): 2.59 Endrin % breakdown (1): 1.76

Combined % breakdown (1): 4.35

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 07/13/96 07/14/96

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

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

EPA Sample No.(PEM): PEM01A Date Analyzed : 07/13/96

LAB Sample ID (PEM): PEM01A Time Analyzed : 15:35

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.47	12.42	12.52	.009	.010	-10.0
beta-BHC	14.79	14.74	14.84	.010	.010	.0
gamma-BHC (Lindane)	14.36	14.31	14.41	.010	.010	.0
Endrin	24.82	24.75	24.89	.050	.050	.0
4,4'-DDT	27.20	27.13	27.27	.102	.100	2.0
Methoxychlor	32.44	32.37	32.51	.244	.250	- 2.4

4,4'-DDT % breakdown (1): 4.10 Endrin % breakdown (1): 3.26

Combined % breakdown (1): 7.36

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 07/13/96 07/14/96

EPA Sample No.(PIBLK): PIBLK01A Date Analyzed : 07/14/96

LAB Sample ID (PIBLK): PIBLK01A Time Analyzed : 04:22

EPA Sample No.(PEM): PEM02A Date Analyzed : 07/14/96

LAB Sample ID (PEM): PEM02A Time Analyzed : 05:17

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.47	12.42	12.52	.009	.010	-10.0
beta-BHC	14.79	14.74	14.84	.010	.010	.0
gamma-BHC (Lindane)	14.36	14.31	14.41	.010	.010	.0
Endrin	24.82	24.75	24.89	.049	.050	- 2.0
4,4'-DDT	27.20	27.13	27.27	.098	.100	- 2.0
Methoxychlor	32.44	32.37	32.51	.233	.250	- 6.8

4,4'-DDT % breakdown (1): 3.42 Endrin % breakdown (1): .00

Combined % breakdown (1): 3.42

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 07/13/96 07/14/96

EPA Sample No.(PIBLK): PIBLK03A Date Analyzed : 07/15/96

LAB Sample ID (PIBLK): PIBLK03A Time Analyzed : 02:32

EPA Sample No.(PEM): PEM03A Date Analyzed : 07/15/96

LAB Sample ID (PEM): PEM03A Time Analyzed : 03:26

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.46	12.42	12.52	.010	.010	.0
beta-BHC	14.78	14.74	14.84	.010	.010	.0
gamma-BHC (Lindane)	14.35	14.31	14.41	.010	.010	.0
Endrin	24.81	24.75	24.89	.048	.050	- 4.0
4,4'-DDT	27.19	27.13	27.27	.095	.100	- 5.0
Methoxychlor	32.44	32.37	32.51	.228	.250	- 8.8

4,4'-DDT % breakdown (1): 2.04 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 2.04

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 07/13/96 07/14/96

EPA Sample No.(PIBLK): PIBLK07A Date Analyzed : 07/15/96

LAB Sample ID (PIBLK): PIBLK07A Time Analyzed : 23:36

EPA Sample No.(PEM): PEM04A Date Analyzed : 07/16/96

LAB Sample ID (PEM): PEM04A Time Analyzed : 00:31

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.47	12.42	12.52	.009	.010	10.0
beta-BHC	14.79	14.74	14.84	.010	.010	.0
gamma-BHC (Lindane)	14.37	14.31	14.41	.010	.010	.0
Endrin	24.83	24.75	24.89	.048	.050	4.0
4,4'-DDT	27.20	27.13	27.27	.095	.100	5.0
Methoxychlor	32.45	32.37	32.51	.227	.250	9.2

4,4'-DDT % breakdown (1): 3.45 Endrin % breakdown (1): 3.06

Combined % breakdown (1): 6.51

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 07/13/96 07/14/96

EPA Sample No.(PIBLK): PIBLK11A Date Analyzed : 07/16/96

LAB Sample ID (PIBLK): PIBLK11A Time Analyzed : 19:42

EPA Sample No.(PEM): PEM05A Date Analyzed : 07/16/96

LAB Sample ID (PEM): PEM05A Time Analyzed : 20:37

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.47	12.42	12.52	.010	.010	.0
beta-BHC	14.78	14.74	14.84	.010	.010	.0
gamma-BHC (Lindane)	14.35	14.31	14.41	.010	.010	.0
Endrin	24.81	24.75	24.89	.048	.050	- 4.0
4,4'-DDT	27.19	27.13	27.27	.095	.100	- 5.0
Methoxychlor	32.44	32.37	32.51	.227	.250	- 9.2

4,4'-DDT % breakdown (1): 3.07 Endrin % breakdown (1): 0

Combined % breakdown (1): 3.07

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 07/13/96 07/14/96

EPA Sample No.(PIBLK): PIBLK12 Date Analyzed : 07/17/96

LAB Sample ID (PIBLK): PIBLK12 Time Analyzed : 07:39

EPA Sample No.(PEM): PEM06A Date Analyzed : 07/17/96

LAB Sample ID (PEM): PEM06A Time Analyzed : 08:41

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.47	12.42	12.52	.009	.010	-10.0
beta-BHC	14.78	14.74	14.84	.009	.010	-10.0
gamma-BHC (Lindane)	14.36	14.31	14.41	.010	.010	.0
Endrin	24.82	24.75	24.89	.050	.050	.0
4,4'-DDT	27.19	27.13	27.27	.102	.100	2.0
Methoxychlor	32.43	32.37	32.51	.231	.250	- 7.6

4,4'-DDT % breakdown (1): 4.94 Endrin % breakdown (1): 1.31

Combined % breakdown (1): 6.25

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 07/13/96 07/14/96

EPA Sample No.(PIBLK): PIBLK15A Date Analyzed : 07/18/96

LAB Sample ID (PIBLK): PIBLK15A Time Analyzed : 03:54

EPA Sample No.(PEM): PEM07A Date Analyzed : 07/18/96

LAB Sample ID (PEM): PEM07A Time Analyzed : 04:48

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.47	12.42	12.52	.010	.010	.0
beta-BHC	14.78	14.74	14.84	.010	.010	.0
gamma-BHC (Lindane)	14.36	14.31	14.41	.010	.010	.0
Endrin	24.82	24.75	24.89	.048	.050	- 4.0
4,4'-DDT	27.19	27.13	27.27	.096	.100	- 4.0
Methoxychlor	32.44	32.37	32.51	.230	.250	- 8.0

4,4'-DDT % breakdown (1): 2.38 Endrin % breakdown (1): 1.52

Combined % breakdown (1): 3.90

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 07/13/96 07/14/96

EPA Sample No.(PIBLK): PIBLK16A Date Analyzed : 07/22/96

LAB Sample ID (PIBLK): PIBLK16A Time Analyzed : 08:28

EPA Sample No.(PEM): PEM08A Date Analyzed : 07/22/96

LAB Sample ID (PEM): PEM08A Time Analyzed : 09:23

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	12.46	12.42	12.52	.010	.010	.0
beta-BHC	14.77	14.74	14.84	.010	.010	.0
gamma-BHC (Lindane)	14.34	14.31	14.41	.010	.010	.0
Endrin	24.80	24.75	24.89	.049	.050	- 2.0
4,4'-DDT	27.18	27.13	27.27	.100	.100	.0
Methoxychlor	32.41	32.37	32.51	.226	.250	- 9.6

4,4'-DDT % breakdown (1): 4.10 Endrin % breakdown (1): 3.00

Combined % breakdown (1): 7.10

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 07/01/96 07/02/96

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

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

EPA Sample No.(PEM): PEM01 Date Analyzed : 07/01/96

LAB Sample ID (PEM): PEM01 Time Analyzed : 14:46

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	13.43	13.38	13.48	.009	.010	-10.0
beta-BHC	18.63	18.58	18.68	.009	.010	-10.0
gamma-BHC (Lindane)	15.27	15.22	15.32	.009	.010	-10.0
Endrin	24.37	24.30	24.44	.049	.050	- 2.0
4,4'-DDT	27.43	27.37	27.51	.114	.100	14.0
Methoxychlor	30.84	30.79	30.93	.253	.250	1.2

4,4'-DDT % breakdown (1): 5.50 Endrin % breakdown (1): 264

Combined % breakdown (1): 9.14

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 07/01/96 07/02/96

EPA Sample No.(PIBLK): PIBLK01 Date Analyzed : 07/02/96

LAB Sample ID (PIBLK): PIBLK01 Time Analyzed : 04:00

EPA Sample No.(PEM): PEM02 Date Analyzed : 07/02/96

LAB Sample ID (PEM): PEM02 Time Analyzed : 04:57

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	13.43	13.38	13.48	.009	.010	-10.0
beta-BHC	18.64	18.58	18.68	.009	.010	-10.0
gamma-BHC (Lindane)	15.28	15.22	15.32	.009	.010	-10.0
Endrin	24.38	24.30	24.44	.049	.050	- 2.0
4,4'-DDT	27.44	27.37	27.51	.097	.100	- 3.0
Methoxychlor	30.86	30.79	30.93	.227	.250	- 9.2

4,4'-DDT % breakdown (1): 8.54 Endrin % breakdown (1): 3.39

Combined % breakdown (1): 11.93

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 07/01/96 07/02/96

EPA Sample No.(PIBLK): PIBLK03 Date Analyzed : 07/03/96

LAB Sample ID (PIBLK): PIBLK03 Time Analyzed : 00:53

EPA Sample No.(PEM): PEM03 Date Analyzed : 07/03/96

LAB Sample ID (PEM): PEM03 Time Analyzed : 01:50

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	13.43	13.38	13.48	.009	.010	-10.0
beta-BHC	18.63	18.58	18.68	.012	.010	20.0
gamma-BHC (Lindane)	15.27	15.22	15.32	.009	.010	-10.0
Endrin	24.38	24.30	24.44	.049	.050	- 2.0
4,4'-DDT	27.44	27.37	27.51	.102	.100	2.0
Methoxychlor	30.86	30.79	30.93	.242	.250	- 3.2

4,4'-DDT % breakdown (1): 9.66 Endrin % breakdown (1): 2.66

Combined % breakdown (1): 12.32

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 07/01/96 07/02/96

EPA Sample No.(PIBLK): PIBLK05 Date Analyzed : 07/04/96

LAB Sample ID (PIBLK): PIBLK05 Time Analyzed : 00:16

EPA Sample No.(PEM): PEM04 Date Analyzed : 07/04/96

LAB Sample ID (PEM): PEM04 Time Analyzed : 01:12

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	13.43	13.38	13.48	.009	.010	-10.0
beta-BHC	18.63	18.58	18.68	.011	.010	10.0
gamma-BHC (Lindane)	15.27	15.22	15.32	.009	.010	-10.0
Endrin	24.38	24.30	24.44	.049	.050	- 2.0
4,4'-DDT	27.44	27.37	27.51	.100	.100	.0
Methoxychlor	30.86	30.79	30.93	.231	.250	- 7.6

4,4'-DDT % breakdown (1): 6.80 Endrin % breakdown (1): 2.90

Combined % breakdown (1): 9.70

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 07/01/96 07/02/96

EPA Sample No.(PIBLK): PIBLK06 Date Analyzed : 07/06/96

LAB Sample ID (PIBLK): PIBLK06 Time Analyzed : 11:41

EPA Sample No.(PEM): PEM05 Date Analyzed : 07/06/96

LAB Sample ID (PEM): PEM05 Time Analyzed : 12:38

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	13.42	13.38	13.48	.009	.010	-10.0
beta-BHC	18.63	18.58	18.68	.010	.010	.0
gamma-BHC (Lindane)	15.27	15.22	15.32	.009	.010	-10.0
Endrin	24.37	24.30	24.44	.051	.050	2.0
4,4'-DDT	27.43	27.37	27.51	.107	.100	7.0
Methoxychlor	30.84	30.79	30.93	.255	.250	2.0

,4'-DDT % breakdown (1): 5.59 Endrin % breakdown (1): 3.02

ombined % breakdown (1): 8.61

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 07/01/96 07/02/96

EPA Sample No.(PIBLK): PIBLK10 Date Analyzed : 07/07/96

LAB Sample ID (PIBLK): PIBLK10 Time Analyzed : 07:35

EPA Sample No.(PEM): PEM06 Date Analyzed : 07/07/96

LAB Sample ID (PEM): PEM06 Time Analyzed : 08:32

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	13.42	13.38	13.48	.009	.010	-10.0
beta-BHC	18.63	18.58	18.68	.012	.010	20.0
gamma-BHC (Lindane)	15.27	15.22	15.32	.009	.010	-10.0
Endrin	24.37	24.30	24.44	.050	.050	.0
4,4'-DDT	27.43	27.37	27.51	.120	.100	20.0
Methoxychlor	30.84	30.79	30.93	.251	.250	.4

4,4'-DDT % breakdown (1): 11.41 Endrin % breakdown (1): 10.96

Combined % breakdown (1): 22.37

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 07/01/96 07/02/96

EPA Sample No.(PIBLK): PIBLK11 Date Analyzed : 07/09/96

LAB Sample ID (PIBLK): PIBLK11 Time Analyzed : 13:17

EPA Sample No.(PEM): PEM07 Date Analyzed : 07/09/96

LAB Sample ID (PEM): PEM07 Time Analyzed : 14:09

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	13.42	13.38	13.48	.009	.010	-10.0
beta-BHC	18.63	18.58	18.68	.010	.010	.0
gamma-BHC (Lindane)	15.27	15.22	15.32	.009	.010	-10.0
Endrin	24.38	24.30	24.44	.052	.050	4.0
4,4'-DDT	27.43	27.37	27.51	.102	.100	2.0
Methoxychlor	30.84	30.79	30.93	.233	.250	- 6.8

4,4'-DDT % breakdown (1): 8.32 Endrin % breakdown (1): 3.48

Combined % breakdown (1): 11.80

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 07/01/96 07/02/96

EPA Sample No.(PIBLK): PIBLK13 Date Analyzed : 07/10/96

LAB Sample ID (PIBLK): PIBLK13 Time Analyzed : 08:19

EPA Sample No.(PEM): PEM08 Date Analyzed : 07/10/96

LAB Sample ID (PEM): PEM08 Time Analyzed : 09:11

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	13.42	13.38	13.48	.010	.010	.0
beta-BHC	18.62	18.58	18.68	.010	.010	.0
gamma-BHC (Lindane)	15.27	15.22	15.32	.010	.010	.0
Endrin	24.36	24.30	24.44	.052	.050	4.0
4,4'-DDT	27.42	27.37	27.51	.104	.100	4.0
Methoxychlor	30.84	30.79	30.93	.245	.250	- 2.0

4,4'-DDT % breakdown (1): 6.92 Endrin % breakdown (1): 3.89

Combined % breakdown (1): 10.81

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 07/01/96 07/02/96

EPA Sample No.(PIBLK): PIBLK16 Date Analyzed : 07/11/96

LAB Sample ID (PIBLK): PIBLK16 Time Analyzed : 04:25

EPA Sample No.(PEM): PEM09 Date Analyzed : 07/11/96

LAB Sample ID (PEM): PEM09 Time Analyzed : 05:17

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	13.41	13.38	13.48	.009	.010	-10.0
beta-BHC	18.60	18.58	18.68	.010	.010	.0
gamma-BHC (Lindane)	15.25	15.22	15.32	.009	.010	-10.0
Endrin	24.34	24.30	24.44	.048	.050	- 4.0
4,4'-DDT	27.39	27.37	27.51	.098	.100	- 2.0
Methoxychlor	30.81	30.79	30.93	.232	.250	- 7.2

4,4'-DDT % breakdown (1): 6.86 Endrin % breakdown (1): 3.34

Combined % breakdown (1): 10.20

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 07/01/96 07/02/96

EPA Sample No.(PIBLK): PIBLK17 Date Analyzed : 07/11/96

LAB Sample ID (PIBLK): PIBLK17 Time Analyzed : 20:23

EPA Sample No.(PEM): PEM10 Date Analyzed : 07/11/96

LAB Sample ID (PEM): PEM10 Time Analyzed : 21:14

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	13.40	13.38	13.48	.009	.010	-10.0
beta-BHC	18.60	18.58	18.68	.009	.010	-10.0
gamma-BHC (Lindane)	15.24	15.22	15.32	.009	.010	-10.0
Endrin	24.33	24.30	24.44	.047	.050	- 6.0
4,4'-DDT	27.39	27.37	27.51	.091	.100	- 9.0
Methoxychlor	30.80	30.79	30.93	.220	.250	-12.0

,4'-DDT % breakdown (1): 8.28 Endrin % breakdown (1): 7.10

Combined % breakdown (1): 15.38

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 07/01/96 07/02/96

EPA Sample No.(PIBLK): PIBLK20 Date Analyzed : 07/12/96

LAB Sample ID (PIBLK): PIBLK20 Time Analyzed : 15:55

EPA Sample No.(PEM): PEM11 Date Analyzed : 07/12/96

LAB Sample ID (PEM): PEM11 Time Analyzed : 16:49

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	13.41	13.38	13.48	.009	.010	-10.0
beta-BHC	18.61	18.58	18.68	.011	.010	10.0
gamma-BHC (Lindane)	15.25	15.22	15.32	.009	.010	-10.0
Endrin	24.34	24.30	24.44	.048	.050	- 4.0
4,4'-DDT	27.39	27.37	27.51	.106	.100	6.0
Methoxychlor	30.81	30.79	30.93	.238	.250	- 4.8

4,4'-DDT % breakdown (1): 7.43 Endrin % breakdown (1): 9.76

Combined % breakdown (1): 17.19

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 07/13/96 07/14/96

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

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

EPA Sample No.(PEM): PEM01A Date Analyzed : 07/13/96

LAB Sample ID (PEM): PEM01A Time Analyzed : 15:35

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	13.42	13.37	13.47	.009	.010	-10.0
beta-BHC	18.63	18.58	18.68	.010	.010	.0
gamma-BHC (Lindane)	15.27	15.22	15.32	.009	.010	-10.0
Endrin	24.37	24.30	24.44	.051	.050	2.0
4,4'-DDT	27.42	27.36	27.50	.116	.100	16.0
Methoxychlor	30.83	30.77	30.91	.257	.250	2.8

4,4'-DDT % breakdown (1): 6.42 Endrin % breakdown (1): 4.70

Combined % breakdown (1): 11.12

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 07/13/96 07/14/96

EPA Sample No.(PIBLK): PIBLK01A Date Analyzed : 07/14/96

LAB Sample ID (PIBLK): PIBLK01A Time Analyzed : 04:22

EPA Sample No.(PEM): PEM02A Date Analyzed : 07/14/96

LAB Sample ID (PEM): PEM02A Time Analyzed : 05:17

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	13.42	13.37	13.47	.009	.010	-10.0
beta-BHC	18.63	18.58	18.68	.009	.010	-10.0
gamma-BHC (Lindane)	15.27	15.22	15.32	.009	.010	-10.0
Endrin	24.37	24.30	24.44	.052	.050	4.0
4,4'-DDT	27.43	27.36	27.50	.097	.100	- 3.0
Methoxychlor	30.84	30.77	30.91	.237	.250	- 5.2

4,4'-DDT % breakdown (1): 7.55 Endrin % breakdown (1): 9.44

Combined % breakdown (1): 16.99

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 07/13/96 07/14/96

EPA Sample No.(PIBLK): PIBLK03A Date Analyzed : 07/15/96

LAB Sample ID (PIBLK): PIBLK03A Time Analyzed : 02:32

EPA Sample No.(PEM): PEM03A Date Analyzed : 07/15/96

LAB Sample ID (PEM): PEM03A Time Analyzed : 03:26

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	13.42	13.37	13.47	.009	.010	-10.0
beta-BHC	18.62	18.58	18.68	.009	.010	-10.0
gamma-BHC (Lindane)	15.26	15.22	15.32	.009	.010	-10.0
Endrin	24.35	24.30	24.44	.051	.050	2.0
4,4'-DDT	27.42	27.36	27.50	.095	.100	-5.0
Methoxychlor	30.84	30.77	30.91	.235	.250	-6.0

4,4'-DDT % breakdown (1): 7.93 Endrin % breakdown (1): 3.75

Combined % breakdown (1): 11.68

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 07/13/96 07/14/96

EPA Sample No.(PIBLK): PIBLK07A Date Analyzed : 07/15/96

LAB Sample ID (PIBLK): PIBLK07A Time Analyzed : 23:36

EPA Sample No.(PEM): PEM04A Date Analyzed : 07/16/96

LAB Sample ID (PEM): PEM04A Time Analyzed : 00:31

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	13.42	13.37	13.47	.009	.010	-10.0
beta-BHC	18.63	18.58	18.68	.011	.010	10.0
gamma-BHC (Lindane)	15.27	15.22	15.32	.009	.010	-10.0
Endrin	24.37	24.30	24.44	.049	.050	- 2.0
4,4'-DDT	27.44	27.36	27.50	.091	.100	- 9.0
Methoxychlor	30.86	30.77	30.91	.226	.250	- 9.6

4,4'-DDT % breakdown (1): 7.73 Endrin % breakdown (1): 9.47

Combined % breakdown (1): 17.20

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 07/13/96 07/14/96

EPA Sample No.(PIBLK): PIBLK11A Date Analyzed : 07/16/96

LAB Sample ID (PIBLK): PIBLK11A Time Analyzed : 19:42

EPA Sample No.(PEM): PEM05A Date Analyzed : 07/16/96

LAB Sample ID (PEM): PEM05A Time Analyzed : 20:37

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	13.42	13.37	13.47	.009	.010	-10.0
beta-BHC	18.62	18.58	18.68	.010	.010	.0
gamma-BHC (Lindane)	15.26	15.22	15.32	.009	.010	-10.0
Endrin	24.36	24.30	24.44	.051	.050	2.0
4,4'-DDT	27.42	27.36	27.50	.096	.100	- 4.0
Methoxychlor	30.84	30.77	30.91	.244	.250	- 2.4

4,4'-DDT % breakdown (1): 7.87 Endrin % breakdown (1): 8.95

Combined % breakdown (1): 16.82

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 07/13/96 07/14/96

EPA Sample No.(PIBLK): PIBLK12 Date Analyzed : 07/17/96

LAB Sample ID (PIBLK): PIBLK12 Time Analyzed : 07:39

EPA Sample No.(PEM): PEM06A Date Analyzed : 07/17/96

LAB Sample ID (PEM): PEM06A Time Analyzed : 08:41

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	13.43	13.37	13.47	.009	.010	-10.0
beta-BHC	18.63	18.58	18.68	.012	.010	20.0
gamma-BHC (Lindane)	15.27	15.22	15.32	.009	.010	-10.0
Endrin	24.37	24.30	24.44	.051	.050	2.0
4,4'-DDT	27.41	27.36	27.50	.113	.100	13.0
Methoxychlor	30.83	30.77	30.91	.265	.250	6.0

4,4'-DDT % breakdown (1): 8.18 Endrin % breakdown (1): 7.90

Combined % breakdown (1): 16.08

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN1A

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 07/13/96 07/14/96

EPA Sample No.(PIBLK): PIBLK15A Date Analyzed : 07/18/96

LAB Sample ID (PIBLK): PIBLK15A Time Analyzed : 03:54

EPA Sample No.(PEM): PEM07A Date Analyzed : 07/18/96

LAB Sample ID (PEM): PEM07A Time Analyzed : 04:48

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	13.42	13.37	13.47	.009	.010	-10.0
beta-BHC	18.62	18.58	18.68	.009	.010	-10.0
gamma-BHC (Lindane)	15.27	15.22	15.32	.009	.010	10.0
Endrin	24.36	24.30	24.44	.052	.050	4.0
4,4'-DDT	27.42	27.36	27.50	.112	.100	12.0
Methoxychlor	30.84	30.77	30.91	.255	.250	2.0

4,4'-DDT % breakdown (1): 5.79 Endrin % breakdown (1): 2.78

Combined % breakdown (1): 18.62