

APPENDIX E

**LABORATORY ANALYTICAL REPORTS AND
CHAIN-OF-CUSTODY RECORDS**

Geomatrix Consultants, Inc.

A-2 & A-3 Borrow Areas, Palos Verdes Shelf Superfund Investigation

Summary Data Sheet
(Calscience Work Order: 00-03-1139)

Parameter	Method	VC00-A3-05-Comp		VC00-A3-05-Comp Rep		VC00-A3-07-Comp	
		wet wt.	dry wt.	wet wt.	dry wt.	wet wt.	dry wt.
Physical/Conventional Tests							
Total Percent Solids, %	ASTM D-2216	82.3	100	81.9	100	81.3	100
Total Organic Carbon, %	EPA 9060	0.016	0.019	0.017	0.021	0.016	0.020
Total Sulfide, mg/kg	EPA 376.2M	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Oil & Grease, mg/kg	EPA 413.2M	7.5	9.1	9.0	11	8.0	9.8
TRPH, mg/kg	EPA 418.1M	6.3	7.7	6.8	8.3	7.5	9.2
Total Volatile Solids, %	EPA 160.4	0.89	1.08	0.82	1.0	0.8	1.0
pH, pH units	EPA 9045B	8.32	NA	8.41	NA	8.28	NA
Ammonia-N, mg/kg	EPA 350.2M	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Pesticides, mg/kg							
p,p'-DDD	EPA 8081A	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002
o'-DDE	EPA 8081A	ND<0.0007J	ND<0.0008J	ND<0.0007J	ND<0.0008J	ND<0.0008J	ND<0.001J
p'-DDT	EPA 8081A	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Aldrin	EPA 8081A	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Chlordane	EPA 8081A	ND<0.020	ND<0.024	ND<0.020	ND<0.024	ND<0.020	ND<0.024
Dieldrin	EPA 8081A	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Heptachlor	EPA 8081A	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002
γ-BHC (Lindane)	EPA 8081A	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002
PCBs, mg/kg							
Aroclor 1016	EPA 8082	ND<0.020	ND<0.024	ND<0.020	ND<0.024	ND<0.020	ND<0.025
Aroclor 1221	EPA 8082	ND<0.020	ND<0.024	ND<0.020	ND<0.024	ND<0.020	ND<0.025
Aroclor 1232	EPA 8082	ND<0.020	ND<0.024	ND<0.020	ND<0.024	ND<0.020	ND<0.025
Aroclor 1242	EPA 8082	ND<0.020	ND<0.024	ND<0.020	ND<0.024	ND<0.020	ND<0.025
Aroclor 1248	EPA 8082	ND<0.020	ND<0.024	ND<0.020	ND<0.024	ND<0.020	ND<0.025
Aroclor 1254	EPA 8082	ND<0.020	ND<0.024	ND<0.020	ND<0.024	ND<0.020	ND<0.025
Aroclor 1260	EPA 8082	ND<0.020	ND<0.024	ND<0.020	ND<0.024	ND<0.020	ND<0.025
Total PCBs	EPA 8082	ND<0.020	ND<0.024	ND<0.020	ND<0.024	ND<0.020	ND<0.025
Organotins, ug/kg							
Tributyltin	GC-FPD	ND<1.0	ND<1.2	ND<1.0	ND<1.2	ND<1.0	ND<1.2
Dibutyltin	GC-FPD	ND<2.0	ND<2.4	ND<2.0	ND<2.4	ND<2.0	ND<2.4
Monobutyltin	GC-FPD	ND<2.0	ND<2.5	ND<2.0	ND<2.5	ND<2.0	ND<2.5

Geomatrix Consultants, Inc.
A-2 & A-3 Borrow Areas, Palos Verdes Shelf Superfund Investigation

Summary Data Sheet							
(Calscience Work Order: 00-03-1139)							
Parameter	Method	VC00-A3-05-Comp		VC00-A3-05-Comp Rep		VC00-A3-07-Comp	
		wet wt.	dry wt.	wet wt.	dry wt.	wet wt.	dry wt.
Semi-Volatile Organics, mg/kg							
Total LPAH	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
2-Methylnapthalene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Napththalene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Acenaphthylene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Acenaphthene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Fluorene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Phenanthrene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Anthracene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Total HPAH	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Fluoranthene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Pyrene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Benzo(a)anthracene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Chrysene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Benzo(b)fluoranthene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Benzo(k)fluoranthene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Benzo(a)pyrene	EPA 8270C	ND<0.014	ND<0.017	ND<0.014	ND<0.017	ND<0.014	ND<0.017
Indeno(1,2,3-cd)pyrene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Dibenzo(a,h)anthracene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Benzo(g,h,i) perylene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Total PAH	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Metals, mg/kg							
Antimony	EPA 6020	0.154	0.187	0.135	0.1650	ND<0.1	ND<0.1
Arsenic	EPA 6020	3.69	4.48	3.24	3.95	3.60	4.43
Cadmium	EPA 6020	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Chromium	EPA 6020	8.69	10.6	8.22	10.0	8.88	10.9
Copper	EPA 6020	1.18	1.43	1.05	1.28	1.71	2.10
Lead	EPA 6020	1.93	2.34	1.77	2.16	2.16	2.66
Mercury	EPA 7471A	ND<0.08	ND<0.1	ND<0.08	ND<0.1	ND<0.08	ND<0.1
Nickel	EPA 6020	2.34	2.84	2.08	2.54	2.95	3.63
Silver	EPA 6020	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Zinc	EPA 6020	7.95	9.66	6.89	8.41	9.65	11.9

Notes:

NA = Not Applicable

ND = Not detected at indicated reporting limit.

wet wt. = wet weight values

dry wt. = dry weight values

J = Analyte was detected at a concentration below the reporting limit but above the detection limit. Reported value is estimated.

Geomatrix Consultants, Inc.
A-2 & A-3 Borrow Areas, Palos Verdes Shelf Superfund Investigation

Summary Data Sheet
(Calscience Work Order: 00-03-1139)

Parameter	Method	Method Blank wet wt.
<u>Physical/Conventional Tests</u>		
Total Percent Solids, %	ASTM D-2216	NA
Total Organic Carbon, %	EPA 9060	ND<0.004
Total Sulfide, mg/kg	EPA 376.2M	ND<0.1
Oil & Grease, mg/kg	EPA 413.2M	ND<1.0
TRPH, mg/kg	EPA 418.1M	ND<1.0
Total Volatile Solids, %	EPA 160.4	NA
pH, pH units	EPA 9045B	NA
Ammonia-N, mg/kg	EPA 350.2M	ND<0.1
<u>Pesticides, mg/kg</u>		
p,p-DDD	EPA 8081A	ND<0.002
o-DDE	EPA 8081A	ND<0.002
p-DDT	EPA 8081A	ND<0.002
Aldrin	EPA 8081A	ND<0.002
Chlordane	EPA 8081A	ND<0.020
Dieldrin	EPA 8081A	ND<0.002
Heptachlor	EPA 8081A	ND<0.002
γ-BHC (Lindane)	EPA 8081A	ND<0.002
<u>PCBs, mg/kg</u>		
Aroclor 1016	EPA 8082	ND<0.002
Aroclor 1221	EPA 8082	ND<0.002
Aroclor 1232	EPA 8082	ND<0.002
Aroclor 1242	EPA 8082	ND<0.002
Aroclor 1248	EPA 8082	ND<0.002
Aroclor 1254	EPA 8082	ND<0.002
Aroclor 1260	EPA 8082	ND<0.002
Total PCBs	EPA 8082	ND<0.002
<u>Organotins, ug/kg</u>		
Tributyltin	GC-FPD	ND<1.0
Dibutyltin	GC-FPD	ND<2.0
Monobutyltin	GC-FPD	ND<2.0

Geomatrix Consultants, Inc.
A-2 & A-3 Borrow Areas, Palos Verdes Shelf Superfund Investigation

Summary Data Sheet
(Calscience Work Order: 00-03-1139)

Parameter	Method	Method Blank		wet wt.	dry wt.	wet wt.	dry wt.	wet wt.	dry wt.
		wet wt.	dry wt.						
Semi-Volatile Organics, mg/kg									
Total LPAH	EPA 8270C		ND<0.016						
2-Methylnapthalene	EPA 8270C		ND<0.016						
Napththalene	EPA 8270C		ND<0.016						
Acenaphthylene	EPA 8270C		ND<0.016						
Acenaphthene	EPA 8270C		ND<0.016						
Fluorene	EPA 8270C		ND<0.016						
Phenanthrene	EPA 8270C		ND<0.016						
Anthracene	EPA 8270C		ND<0.016						
Total HPAH	EPA 8270C		ND<0.016						
Fluoranthene	EPA 8270C		ND<0.016						
Pyrene	EPA 8270C		ND<0.016						
Benzo(a)anthracene	EPA 8270C		ND<0.016						
Chrysene	EPA 8270C		ND<0.016						
Benzo(b)fluoranthene	EPA 8270C		ND<0.016						
Benzo(k)fluoranthene	EPA 8270C		ND<0.016						
Benzo(a)pyrene	EPA 8270C		ND<0.014						
Indeno(1,2,3-cd)pyrene	EPA 8270C		ND<0.016						
Dibenzo(a,h)anthracene	EPA 8270C		ND<0.016						
Benzo(g,h,i) perylene	EPA 8270C		ND<0.016						
Total PAH	EPA 8270C		ND<0.016						
Metals, mg/kg									
Antimony	EPA 6020		ND<0.1						
Arsenic	EPA 6020		ND<0.1						
Cadmium	EPA 6020		ND<0.1						
Chromium	EPA 6020		ND<0.1						
Copper	EPA 6020		ND<0.1						
Lead	EPA 6020		ND<0.1						
Mercury	EPA 7471A		ND<0.084						
Nickel	EPA 6020		ND<0.1						
Silver	EPA 6020		ND<0.1						
Zinc	EPA 6020		ND<0.1						

Notes:

NA = Not Applicable

ND = Not detected at indicated reporting limit.

wet wt. = wet weight values

dry wt. = dry weight values

J = Analyte was detected at a concentration below the reporting limit but above the detection limit. Reported value is estimated.



April 19, 2000
S0004190

Duane Paul
Geomatrix Consultants, Inc.
330 West Bay Street, Suite 140
Costa Mesa, CA 92627

Subject: Palos Verdes Shelf Superfund Investigation
A-2 & A-3 Borrow Areas
Calscience Work Order No. 00-03-1138 (Equipment Blank)

Dear Mr. Paul:

Calscience Environmental Laboratories, Inc. (Calscience) is pleased to submit the final report for the subject project. All testing was performed in accordance with the project specific Sampling and Analysis Plan, including the Quality Assurance/Quality Control (QA/QC) reviews. Presented below a narrative of the unique features or anomalies encountered as part of the analysis of the marine sediment samples.

Sample Receipt

A single water sample (and one temperature blank) was received as part of this Work Order on March 30, 2000. The sample was transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. All sample containers were intact upon arrival. The temperature of the ice-chest was measured upon arrival in the laboratory and was within acceptable limits (<4.0°C). The sample was logged into the Laboratory Information Management System (LIMS), given a laboratory identification number, and stored in refrigeration units pending analysis.

Holding Times

All analytical holding time requirements were met.

Detection/Quantitation Limits

The Sampling and Analysis Plan prepared for this project did not indicate target reporting/detection limits for a water matrix. The reporting limits indicated are Calscience Laboratories' standard reporting limits.

Blanks

Concentrations of target analytes in the method blanks were found to be below reporting limits for all analyses.

Initial and Continuing Calibration

Initial and continuing calibration criteria for respective analyses were met. Frequency criteria for initial and continuing calibration verifications for respective analyses were also met.

Surrogate Recoveries

Surrogate recoveries for all samples were within acceptable control limits (EPA CLP) for the applicable methods.

Laboratory Duplicates and MS/MSDs

Matrix spike (MS) and matrix spike duplicate (MSD) analyses were performed on the project sample. All recoveries were within acceptable limits.

With regard to duplicate analyses, the RPD values were all within the established control limits for all tests.

Precision and Accuracy

With regard to precision, RPD values for all MS/MSD and LCS/LCSD concentrations, and all duplicate analyses, met the acceptance criteria. For accuracy, all MS/MSD percent recoveries and surrogate recoveries were within acceptable control criteria, as mentioned above.

Representativeness and Comparability

The analytical method used for total organic carbon was EPA 415.1. Although the Sampling and Analytical Plan calls for EPA 9060, this method applies to a solid matrix. EPA 415.1 is equivalent to EPA 9060. The same comment applies to pH and mercury, whereby the method differs due to the matrix (EPA 150.1 and EPA 7470A, respectively, for an aqueous matrix).

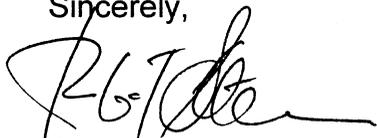
Completeness

With regard to completeness, it appears that all of the data presented is usable.

The logo for CEL, consisting of the letters 'CEL' in a bold, italicized, sans-serif font with horizontal lines through the letters.

Please contact the undersigned if there are any questions regarding this report.

Sincerely,

A handwritten signature in black ink, appearing to read 'RJS', with a stylized flourish at the end.

Calscience Environmental
Laboratories, Inc.
Robert J. Stearns
Director

RJS:rjs

Enc.

ANALYTICAL REPORT

Geomatrix Consultants
330 West Bay Street Suite 140
Costa Mesa, CA 92627

Date Sampled: 03/30/00
Date Received: 03/30/00
Date Analyzed: 04/04/00

Attn: Duane Paul
RE: A2&A3 Borrow Areas, P.V. Shelf

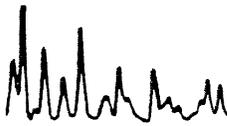
Work Order No.: 00-03-1138
Method: EPA 415.1
Page 1 of 1

All concentrations are reported in mg/L (ppm).

<u>Sample Number</u>	<u>Total Organic Carbon Concentration</u>	<u>Reporting Limit</u>
VC00-A3-EB1	ND	0.5
Method Blank	ND	0.5

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.



ANALYTICAL REPORT

Geomatrix Consultants
 330 West Bay Street Suite 140
 Costa Mesa, CA 92627

Date Sampled: 03/30/00
 Date Received: 03/30/00
 Date Analyzed: 03/31/00

Attn: Duane Paul
 RE: A2&A3 Borrow Areas, P.V. Shelf

Work Order No.: 00-03-1138
 Method: EPA 150.1
 Page 1 of 1

All values are reported in pH units.

<u>Sample Number</u>	<u>pH</u>	<u>Reporting Limit</u>
VC00-A3-EB1	6.45	0.01

QA/QC

<u>Sample Number</u>	<u>Sample Conc.</u>	<u>Duplicate Conc.</u>	<u>%RPD</u>	<u>Control Limits (%)</u>
VC00-A3-EB1 (Duplicate)	6.45	6.49	1	0 - 25

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Geomatrix Consultants
 330 West Bay Street Suite 140
 Costa Mesa, CA 92627

Date Sampled: 03/30/00
 Date Received: 03/30/00
 Date Analyzed: 03/30/00

Attn: Duane Paul
 RE: A2&A3 Borrow Areas, P.V. Shelf

Work Order No.: 00-03-1138
 Method: EPA 376.2
 Page 1 of 1

All concentrations are reported in mg/L (ppm).

<u>Sample Number</u>	<u>Sulfide Concentration</u>	<u>Reporting Limit</u>
VC00-A3-EB1	ND	0.05
Method Blank	ND	0.05

QA/QC

<u>Sample Number</u>	<u>Sample Conc.</u>	<u>Duplicate Conc.</u>	<u>%RPD</u>	<u>Control Limits (%)</u>
VC00-A3-EB1 (Duplicate)	ND	ND	NA	0 - 25

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

ANALYTICAL REPORT

Geomatrix Consultants
 330 West Bay Street Suite 140
 Costa Mesa, CA 92627

Date Sampled: 03/30/00
 Date Received: 03/30/00
 Date Analyzed: 03/31/00

Attn: Duane Paul
 RE: A2&A3 Borrow Areas, P.V. Shelf

Work Order No.: 00-03-1138
 Method: EPA 350.2
 Page 1 of 1

All concentrations are reported in mg/L (ppm).

<u>Sample Number</u>	<u>Ammonia-N Concentration</u>	<u>Reporting Limit</u>
VC00-A3-EB1	ND	0.1
Method Blank	ND	0.1

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

ANALYTICAL REPORT

Geomatrix Consultants
 330 West Bay Street Suite 140
 Costa Mesa, CA 92627

Date Sampled: 03/30/00
 Date Received: 03/30/00
 Date Analyzed: 03/31/00

Attn: Duane Paul
 RE: A2&A3 Borrow Areas, P.V. Shelf

Work Order No.: 00-03-1138
 Method: EPA 160.4
 Page 1 of 1

All concentrations are reported in mg/L (ppm).

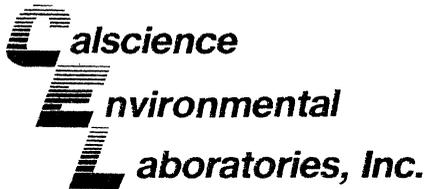
<u>Sample Number</u>	<u>Volatile Solids Concentration</u>	<u>Reporting Limit</u>
VC00-A3-EB1	2	1

QA/QC

<u>Sample Number</u>	<u>Sample Conc.</u>	<u>Duplicate Conc.</u>	<u>%RPD</u>	<u>Control Limits (%)</u>
VC00-A3-EB1 (Duplicate)	2	2	0	0 - 25

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.



ANALYTICAL REPORT

Geomatrix Consultants
330 West Bay Street Suite 140
Costa Mesa, CA 92627

Date Sampled: 03/30/00
Date Received: 03/30/00
Date Extracted: 04/04/00
Date Analyzed: 04/04/00
Work Order No.: 00-03-1138
Method: EPA 418.1
Page 1 of 1

Attn: Duane Paul
RE: A2&A3 Borrow Areas, P.V. Shelf

All total recoverable petroleum hydrocarbon concentrations are reported in mg/L (ppm).

<u>Sample Number</u>	<u>Concentration</u>	<u>Reporting Limit</u>
VC00-A3-EB1	ND	1.0
Method Blank	ND	1.0

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.



Geomatrix Consultants
330 West Bay Street Suite 140
Costa Mesa, CA 92627

Date Sampled: 03/30/00
Date Received: 03/30/00
Date Extracted: 04/04/00
Date Analyzed: 04/04/00
Work Order No.: 00-03-1138
Method: EPA 413.2
Page 1 of 1

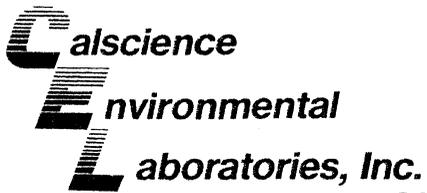
Attn: Duane Paul
RE: A2&A3 Borrow Areas, P.V. Shelf

All concentrations are reported in mg/L (ppm).

<u>Sample Number</u>	<u>Oil and Grease Concentration</u>	<u>Reporting Limit</u>
VC00-A3-EB1	ND	1.0
Method Blank	ND	1.0

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.



QUALITY ASSURANCE SUMMARY
Method EPA 415.1

Geomatrix Consultants
Page 1 of 1

Work Order No.: 00-03-1138
Date Analyzed: 04/04/00

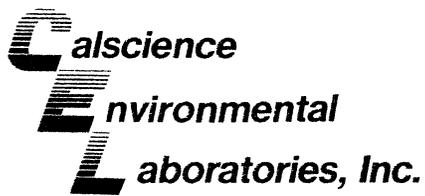
Matrix Spike/Matrix Spike Duplicate

Sample Spiked: VC00-A3-EB1

<u>Analyte</u>	<u>MS%REC</u>	<u>MSD%REC</u>	<u>Control Limits</u>	<u>%RPD</u>	<u>Control Limits</u>
Total Organic Carbon	100	102	70 - 130	2	0 - 25

Laboratory Control Sample

<u>Analyte</u>	<u>Conc. Added</u>	<u>Conc. Rec.</u>	<u>%REC</u>	<u>Control Limits</u>
Total Organic Carbon	10.0	9.9	99	80 - 120



QUALITY ASSURANCE SUMMARY
Method EPA 350.2

Geomatrix Consultants
Page 1 of 1

Work Order No.: 00-03-1138
Date Analyzed: 04/17/00

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: VC00-A3-EB1

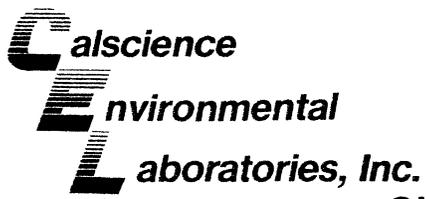
<u>Analyte</u>	<u>MS%REC</u>	<u>MSD%REC</u>	<u>Control Limits</u>	<u>%RPD</u>	<u>Control Limits</u>
Ammonia	92	93	70 - 130	1	0 - 20

QUALITY ASSURANCE SUMMARY

Method EPA 418.1

Geomatrix Consultants
Page 1 of 1Work Order No.: 00-03-1138
Date Analyzed: 04/04/00**LCS/LCS Duplicate**

<u>Analyte</u>	<u>LCS%REC</u>	<u>LCSD%REC</u>	<u>Control Limits</u>	<u>%RPD</u>	<u>Control Limits</u>
Total Recoverable Petroleum Hydrocarbons	100	100	70 - 130	0	0 - 30



QUALITY ASSURANCE SUMMARY
Method EPA 413.2

Geomatrix Consultants
Page 1 of 1

Work Order No.: 00-03-1138
Date Analyzed: 04/04/00

LCS/LCS Duplicate

<u>Analyte</u>	<u>LCS%REC</u>	<u>LCSD%REC</u>	<u>Control Limits</u>	<u>%RPD</u>	<u>Control Limits</u>
Oil and Grease	100	100	70 - 130	0	0 - 30

ANALYTICAL REPORT

Geomatrix Consultants
 330 West Bay Street Suite 140
 Costa Mesa, CA 92627

Date Received: 03/30/00
 Work Order No: 00-03-1138
 Preparation: Total Digestion
 Method: EPA 6020 / EPA 7470A

Project: A2&A3 Borrow Areas, P.V. Shelf

Page 1 of 1

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
VC00-A3-EB1	00-03-1138-1	03/30/00	Aqueous	04/04/00	04/04/00	000404lcs1

Comment(s): Mercury was analyzed on 4/3/00 5:31:17 PM with batch 000401lcs2

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.00100	1		mg/L	Lead	ND	0.00100	1		mg/L
Arsenic	ND	0.00100	1		mg/L	Nickel	ND	0.00100	1		mg/L
Cadmium	ND	0.00100	1		mg/L	Silver	ND	0.00100	1		mg/L
Chromium (Total)	ND	0.00100	1		mg/L	Zinc	0.00733	0.00500	1		mg/L
Copper	0.00164	0.00100	1		mg/L	Mercury	ND	0.00050	1		mg/L

Method Blank	099-04-008-211	N/A	Aqueous	04/01/00	04/03/00	000401lcs2
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Parameter	Result	RL	DF	Qual	Units
Mercury	ND	0.00050	1		mg/L

Method Blank	096-06-003-285	N/A	Aqueous	04/04/00	04/04/00	000404lcs1
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Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.00100	1		mg/L	Lead	ND	0.00100	1		mg/L
Arsenic	ND	0.00100	1		mg/L	Nickel	ND	0.00100	1		mg/L
Cadmium	ND	0.00100	1		mg/L	Silver	ND	0.00100	1		mg/L
Chromium (Total)	ND	0.00100	1		mg/L	Zinc	ND	0.00500	1		mg/L
Copper	ND	0.00100	1		mg/L						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

ANALYTICAL REPORT

Geomatrix Consultants
 330 West Bay Street Suite 140
 Costa Mesa, CA 92627

Date Received: 03/30/00
 Work Order No: 00-03-1138
 Preparation: EPA 3520B
 Method: EPA 8081A/8082

Project: A2&A3 Borrow Areas, P.V. Shelf

Page 1 of 1

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
VC00-A3-EB1	00-03-1138-1	03/30/00	Aqueous	03/31/00	04/04/00	0003303

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Alpha-BHC	ND	0.10	1		ug/L	4,4'-DDT	ND	0.10	1		ug/L
Gamma-BHC	ND	0.10	1		ug/L	Endosulfan Sulfate	ND	0.10	1		ug/L
Beta-BHC	ND	0.10	1		ug/L	Methoxychlor	ND	0.10	1		ug/L
Heptachlor	ND	0.10	1		ug/L	Chlordane	ND	1.0	1		ug/L
Delta-BHC	ND	0.10	1		ug/L	Toxaphene	ND	1.0	1		ug/L
Aldrin	ND	0.10	1		ug/L	Aroclor-1016	ND	1.0	1		ug/L
Heptachlor Epoxide	ND	0.10	1		ug/L	Aroclor-1221	ND	1.0	1		ug/L
Endosulfan I	ND	0.10	1		ug/L	Aroclor-1232	ND	1.0	1		ug/L
Dieldrin	ND	0.10	1		ug/L	Aroclor-1242	ND	1.0	1		ug/L
4,4'-DDE	ND	0.10	1		ug/L	Aroclor-1248	ND	1.0	1		ug/L
Endrin	ND	0.10	1		ug/L	Aroclor-1254	ND	1.0	1		ug/L
Endrin Aldehyde	ND	0.10	1		ug/L	Aroclor-1260	ND	1.0	1		ug/L
4,4'-DDD	ND	0.10	1		ug/L	Aroclor-1262	ND	1.0	1		ug/L
Endosulfan II	ND	0.10	1		ug/L	Endrin Ketone	ND	0.10	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	89	50-135		2,4,5,6-Tetrachloro-m-Xylene	74	50-135	

Method Blank	095-01-015-640	N/A	Aqueous	03/30/00	04/04/00	0003303
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Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Alpha-BHC	ND	0.10	1		ug/L	4,4'-DDT	ND	0.10	1		ug/L
Gamma-BHC	ND	0.10	1		ug/L	Endosulfan Sulfate	ND	0.10	1		ug/L
Beta-BHC	ND	0.10	1		ug/L	Methoxychlor	ND	0.10	1		ug/L
Heptachlor	ND	0.10	1		ug/L	Chlordane	ND	1.0	1		ug/L
Delta-BHC	ND	0.10	1		ug/L	Toxaphene	ND	1.0	1		ug/L
Aldrin	ND	0.10	1		ug/L	Aroclor-1016	ND	1.0	1		ug/L
Heptachlor Epoxide	ND	0.10	1		ug/L	Aroclor-1221	ND	1.0	1		ug/L
Endosulfan I	ND	0.10	1		ug/L	Aroclor-1232	ND	1.0	1		ug/L
Dieldrin	ND	0.10	1		ug/L	Aroclor-1242	ND	1.0	1		ug/L
4,4'-DDE	ND	0.10	1		ug/L	Aroclor-1248	ND	1.0	1		ug/L
Endrin	ND	0.10	1		ug/L	Aroclor-1254	ND	1.0	1		ug/L
Endrin Aldehyde	ND	0.10	1		ug/L	Aroclor-1260	ND	1.0	1		ug/L
4,4'-DDD	ND	0.10	1		ug/L	Aroclor-1262	ND	1.0	1		ug/L
Endosulfan II	ND	0.10	1		ug/L	Endrin Ketone	ND	0.10	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	71	50-135		2,4,5,6-Tetrachloro-m-Xylene	61	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

ANALYTICAL REPORT

Geomatrix Consultants
 330 West Bay Street Suite 140
 Costa Mesa, CA 92627

Date Received: 03/30/00
 Work Order No: 00-03-1138
 Preparation: EPA 3520B
 Method: EPA 8270C

Project: 4186.018

Page 1 of 1

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
VC00-A3-EB1	00-03-1138-1	03/30/00	Aqueous	04/01/00	04/03/00	0004012

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	ND	10	1		ug/L	Benzo (a) Anthracene	ND	10	1		ug/L
2-Methylnaphthalene	ND	10	1		ug/L	Chrysene	ND	10	1		ug/L
Acenaphthylene	ND	10	1		ug/L	Benzo (b) Fluoranthene	ND	10	1		ug/L
Acenaphthene	ND	10	1		ug/L	Benzo (k) Fluoranthene	ND	10	1		ug/L
Fluorene	ND	10	1		ug/L	Benzo (a) Pyrene	ND	10	1		ug/L
Phenanthrene	ND	10	1		ug/L	Benzo (g,h,i) Perylene	ND	10	1		ug/L
Anthracene	ND	10	1		ug/L	Indeno (1,2,3-c,d) Pyrene	ND	10	1		ug/L
Fluoranthene	ND	10	1		ug/L	Dibenz (a,h) Anthracene	ND	10	1		ug/L
Pyrene	ND	10	1		ug/L						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	84	15-138		Phenol-d6	87	17-141	
Nitrobenzene-d5	95	56-123		2-Fluorobiphenyl	88	45-120	
2,4,6-Tribromophenol	102	32-143		p-Terphenyl-d14	92	46-133	

Method Blank	095-01-003-544	N/A	Aqueous	04/01/00	04/03/00	0004012
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Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	ND	10	1		ug/L	Benzo (a) Anthracene	ND	10	1		ug/L
2-Methylnaphthalene	ND	10	1		ug/L	Chrysene	ND	10	1		ug/L
Acenaphthylene	ND	10	1		ug/L	Benzo (b) Fluoranthene	ND	10	1		ug/L
Acenaphthene	ND	10	1		ug/L	Benzo (k) Fluoranthene	ND	10	1		ug/L
Fluorene	ND	10	1		ug/L	Benzo (a) Pyrene	ND	10	1		ug/L
Phenanthrene	ND	10	1		ug/L	Benzo (g,h,i) Perylene	ND	10	1		ug/L
Anthracene	ND	10	1		ug/L	Indeno (1,2,3-c,d) Pyrene	ND	10	1		ug/L
Fluoranthene	ND	10	1		ug/L	Dibenz (a,h) Anthracene	ND	10	1		ug/L
Pyrene	ND	10	1		ug/L						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	86	15-138		Phenol-d6	90	17-141	
Nitrobenzene-d5	94	56-123		2-Fluorobiphenyl	80	45-120	
2,4,6-Tribromophenol	98	32-143		p-Terphenyl-d14	81	46-133	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Quality Control - Spike/Spike Duplicate

Geomatrix Consultants
 330 West Bay Street Suite 140
 Costa Mesa, CA 92627

Date Received: 03/30/00
 Work Order No: 00-03-1138
 Preparation: Total Digestion
 Method: EPA 7470A

Project: A2&A3 Borrow Areas, P.V. Shelf

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
00-03-1187-1	Aqueous	Mercury	04/01/00	04/03/00	040100ms2

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	102	102	71-134	0	0-14	

Quality Control - Spike/Spike Duplicate

Geomatrix Consultants
 330 West Bay Street Suite 140
 Costa Mesa, CA 92627

Date Received: 03/30/00
 Work Order No: 00-03-1138
 Preparation: Total Digestion
 Method: EPA 6020

Project: A2&A3 Borrow Areas, P.V. Shelf

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
VC00-A3-EB1	Aqueous	ICP/MS A	04/04/00	04/04/00	040400ms1

<u>Parameter</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Antimony	103	102	80-120	1	0-20	
Arsenic	109	106	80-120	2	0-20	
Cadmium	106	106	80-120	0	0-20	
Chromium (Total)	106	106	80-120	0	0-20	
Copper	108	109	80-120	0	0-20	
Lead	110	110	80-120	0	0-20	
Nickel	107	105	80-120	1	0-20	
Silver	103	107	80-120	4	0-20	
Zinc	111	111	80-120	0	0-20	

 Calscience

 Environmental

Quality Control - PDS / PSD

 Laboratories, Inc.

Geomatrix Consultants
330 West Bay Street Suite 140
Costa Mesa, CA 92627

Date Received: 03/30/00
Work Order No: 00-03-1138
Preparation: Total Digestion
Method: EPA 6020

Project: A2&A3 Borrow Areas, P.V. Shelf

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
VC00-A3-EB1	Aqueous	ICP/MS A	04/04/00	04/04/00	040400ms1

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	100	101	75-125	0	0-20	
Arsenic	108	104	75-125	4	0-20	
Cadmium	105	103	75-125	2	0-20	
Chromium (Total)	106	106	75-125	0	0-20	
Copper	107	106	75-125	1	0-20	
Lead	108	108	75-125	0	0-20	
Nickel	106	107	75-125	1	0-20	
Silver	106	106	75-125	0	0-20	
Zinc	107	105	75-125	2	0-20	

Quality Control - LCS/LCS Duplicate

Geomatrix Consultants
 330 West Bay Street Suite 140
 Costa Mesa, CA 92627

Date Received: 03/30/00
 Work Order No: 00-03-1138
 Preparation: EPA 3520B
 Method: EPA 8081A/8082

Project: A2&A3 Borrow Areas, P.V. Shelf

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-015-640	Aqueous	GC 17	03/30/00	04/04/00	0003303

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gamma-BHC	101	95	50-135	6	0-25	
Heptachlor	97	88	50-135	9	0-25	
Endosulfan I	88	84	50-135	5	0-25	
Dieldrin	99	91	50-135	8	0-25	
Endrin	99	80	50-135	22	0-25	
4,4'-DDT	100	89	50-135	11	0-25	
Aroclor-1260	99	98	50-135	1	0-25	

Quality Control - LCS/LCS Duplicate

Geomatrix Consultants
 330 West Bay Street Suite 140
 Costa Mesa, CA 92627

Date Received: 03/30/00
 Work Order No: 00-03-1138
 Preparation: EPA 3520B
 Method: EPA 8270C

Project: A2&A3 Borrow Areas, P.V. Shelf

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-544	Aqueous	GC/MS J	04/01/00	04/03/00	0004012

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	89	99	12-151	10	0-23	
2-Chlorophenol	94	104	45-135	10	0-18	
1,4-Dichlorobenzene	81	88	36-118	9	0-26	
N-Nitroso-di-n-propylamine	93	104	52-128	11	0-13	
1,2,4-Trichlorobenzene	85	94	42-120	10	0-21	
4-Chloro-3-Methylphenol	99	110	20-150	11	0-40	
Acenaphthene	97	106	51-137	9	0-11	
4-Nitrophenol	105	121	20-150	15	0-40	
2,4-Dinitrotoluene	102	112	25-143	9	0-36	
Pentachlorophenol	112	124	20-150	10	0-40	
Pyrene	82	99	45-135	20	0-20	


Environmental Quality Control - Laboratory Control Sample
Laboratories, Inc.

Geomatrix Consultants
 330 West Bay Street Suite 140
 Costa Mesa, CA 92627

Date Received: 03/30/00
 Work Order No: 00-03-1138
 Preparation: Total Digestion
 Method: EPA 7470A

Project: A2&A3 Borrow Areas, P.V. Shelf

LCS Sample Number	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-04-008-211	Aqueous	Mercury	04/03/00	000401 L	000401lcs2

<u>Parameter</u>	<u>Conc Added</u>	<u>Conc Recovered</u>	<u>%Rec</u>	<u>%Rec CL</u>	<u>Qualifiers</u>
Mercury	0.0100	0.00994	99	90-122	


CalScience
Environmental Quality Control - Laboratory Control Sample
Laboratories, Inc.

Geomatrix Consultants
330 West Bay Street Suite 140
Costa Mesa, CA 92627

Date Received: 03/30/00
Work Order No: 00-03-1138
Preparation: Total Digestion
Method: EPA 6020

Project: A2&A3 Borrow Areas, P.V. Shelf

LCS Sample Number	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
096-06-003-285	Aqueous	ICP/MS A	04/04/00	021SMPL	000404lcs1

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Antimony	0.100	0.100	100	80-120	
Arsenic	0.100	0.104	104	80-120	
Cadmium	0.100	0.102	102	80-120	
Chromium (Total)	0.100	0.104	104	80-120	
Copper	0.100	0.105	105	80-120	
Lead	0.100	0.107	107	80-120	
Nickel	0.100	0.105	104	80-120	
Silver	0.0500	0.0505	101	80-120	
Zinc	0.100	0.105	105	80-120	

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 00-03-1138

<u>Qualifier</u>	<u>Definition</u>
ND	Not detected at indicated reporting limit.

1158

Chain-of-Custody Record

Date: 3/30/00

Page 1 of 1

Project No.: 4186.018

5222

REMARKS

Samplers (Signatures):


Additional Comments:
 Use methods specified in Sampling & Analysis Plan dated 3-27-00.

PREP BY: *RYAN*

Date	Time	Sample Number	Soil (S), Water (W), Vapor (V), or Other	ANALYSES							TPH	EPA Method 8020 (BTEX)	TPHd By:	TPHg By:	EPA Method 8270	EPA Method 8240	EPA Method 8020	EPA Method 8010	AMMONIA	TRPH	TVS, PH	METALS	SULFIDE	TBT	TEMPERATURE	Acidified	No. of containers	Additional Comments	PRESERVE BY DATE
				EPA Method 8020	EPA Method 8240	EPA Method 8270	TPHd By:	TPHg By:	TOC	TVS, PH																			
3/30/00	1645	VC00-A3-EBI	W	✓																							1L Amber bottle-glass	Na2S2O3	
3/30/00			W																								250 mL CLEAR GLASS BOTTLE	H2SO4	
			W																								1L Amber glass bottle	H2SO4	
			W																								0.5L Amber glass bottle	H2SO4	
			W																								1L Plastic bottle	NONE	
			W																								1L Amber glass bottle	Na2S2O3	
			W																								200 mL Plastic bottle	ZnAc2	
			W																								200 mL Plastic bottle	HNO3	
			W																								1L Amber glass bottle	NONE	
			W																								0.5L Amber glass bottle	H2SO4	
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SAMPLE RECEIPT FORM

Work Order Number: **00-03-1138**
 Delivery Container Type: Cooler
 Client Project ID: A2&A3 Borrow Areas, P.V. Shelf

Date Received: 03/30/00
 Date Opened: 03/30/00
 Opened By: AE

Section A: Pass/Fail**Criteria****Comments**

- | | | |
|---|-----|--|
| 1. Chain of custody document(s) received with samples. | Yes | |
| 2. Sample container label(s) consistent with custody papers. | Yes | |
| 3. Sample container label(s) complete (ID, date, time, taken by). | Yes | |
| 4. Sample container(s) intact and in good condition. | Yes | |
| 5. If applicable, proper preservation noted on sample label(s). | Yes | |
| 6. Sufficient sample volume received for analyses requested. | Yes | |
| 7. Correct containers used for analyses requested. | Yes | |
| 8. If applicable, VOA vials free of headspace. | NA | |

Section B: Additional Observations

- | | | |
|--|-----|---------------------------|
| 1. Describe packing materials used in container. | NA | |
| 2. Was sample container(s) sealed with custody | Yes | Cooler with Custody Seal. |
| 3. Were all samples sealed in separate plastic bags? | No | |
| 4. Measured temperature inside delivery container when opened. | 4.0 | °C |
| 5. If delivery container shipped by third-party carrier, did container come with shipping slip, airbill, etc.? | NA | |
| If YES, attach copy of shipping slip/airbill to the back of this | | |
| 6. Do tedlar bags show condensation? Describe below if yes. | NA | |
| 7. Are 25.1 condensate traps immersed in dry ice? | NA | |
| 8. Are 25.1 sampling trains intact? | NA | |
| 9. Are 25.3 condensate vials still attached to the sampling train? | NA | |
| 10. Are 25.3 condensate vials on wet ice? | NA | |

Section C: Additional Comments



April 18, 2000

Calscience Environmental Laboratories, Inc.
Attn.: Bob Sterns
7440 Lincoln Way
Garden Grove, California 92841-1432

Project Name/No.: 00-03-1139, 00-03-1138
Laboratory Log No.: 0797-00
Date Received: 04/04/00
Sample Matrix: Three solid samples and
one water sample
PO No.: Verbal per B. Sterns

Please find the following enclosures for the above referenced project identified:

- 1) Analytical Report
- 2) QA/QC Report
- 3) Chain of Custody Form

.....*Certificate of Analysis*.....

Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. Date of extraction, date of analysis, detection limits and dilution factor are reported for each compound analyzed. All samples were analyzed within the method required holding time from sample collection.

Data for each analytical method was evaluated by assessing the following QA/QC functions, as applicable to the methodology:

- Quality Control Standard
- Surrogate Percent Recovery
- Laboratory Control Sample (LCS) percent recoveries for all analyses
- Matrix Spike Recovery/Matrix Spike Duplicate Recovery (MSR & MSDR) and/or
- Relative Percent Difference (RPD from MSR & MSDR)

I certify that this data report is in compliance both technically and for completeness. Release of the data contained in this hardcopy data report has been authorized by the following signature.

Janis Columbo
Vice President/Laboratory Director

ANALYSIS RESULTS - ORGANOTIN SPECIES by GC-FPD

CLIENT: CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.

DATE SAMPLED: N/A

PROJECT NAME/No.: 00-03-1139, 00-03-1138

DATE RECEIVED: N/A

PTAS LOG #: METHOD BLANK

DATE EXTRACTED: 04/06/00

SAMPLE ID: N/A

DATE ANALYZED: 04/10/00

DILUTION FACTOR: 1

MATRIX: WATER

SAMPLE VOL./WT.: 1000 ML

ANALYTE	REPORTING LIMITS PPB (UG/L)	RESULTS PPB (UG/L)
TRIBUTYLTIN	0.005	ND
DIBUTYLTIN	0.020	ND
MONOBUTYLTIN	0.020	ND

DF = DILUTION FACTOR

ND = ANALYTE NOT DETECTED AT OR ABOVE THE INDICATED REPORTING LIMIT

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE PARAMETER	ACCEPTANCE CRITERIA	% RECOVERY
TRIPROPYLTIN	39-139	100

PTAS DCN 300-058 (Rev 01/00)



ANALYSIS RESULTS - ORGANOTIN SPECIES by GC-FPD

CLIENT: CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.

DATE SAMPLED: 03/30/00

DATE RECEIVED: 04/04/00

DATE EXTRACTED: 04/06/00

DATE ANALYZED: 04/10/00

MATRIX: WATER

SAMPLE VOL./WT.: 1000 ML

PROJECT NAME/No.: 00-03-1139, 00-03-1138

PTAS LOG #: 0797-00-4

SAMPLE ID: VC00-A3-EB1

DILUTION FACTOR: 1

ANALYTE	REPORTING LIMITS PPB (UG/L)	RESULTS PPB (UG/L)
TRIBUTYL TIN	0.005	ND
DIBUTYL TIN	0.020	ND
MONOBUTYL TIN	0.020	ND

DF = DILUTION FACTOR

ND = ANALYTE NOT DETECTED AT OR ABOVE THE INDICATED REPORTING LIMIT

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE PARAMETER	ACCEPTABLE RANGE	% RECOVERY
TRIPROPYL TIN	39-139	97

PTAS DCN 300-058 (Rev 01/00)



Pacific Treatment Analytical Services, Inc. 4340 Viewridge Ave., Suite A • San Diego, CA 92121 (858) 569-7717 FAX (858) 569-7718

ANALYSIS RESULTS - ORGANOTIN SPECIES by GC-FPD

CLIENT: CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.

DATE SAMPLED: N/A

DATE RECEIVED: N/A

PROJECT NAME/No.: 00-03-1139, 00-03-138

DATE EXTRACTED: 04/12/00

PTAS LOG #: METHOD BLANK

DATE ANALYZED: 04/12/00

SAMPLE ID: N/A

MATRIX: SOLID

DILUTION FACTOR: 1

SAMPLE VOL./WT.: 10 G

ANALYTE	REPORTING LIMIT PPB (UG/KG)	RESULTS PPB (UG/KG)
TRIBUTYLTIN	1.0	ND
DIBUTYLTIN	2.0	ND
MONOBUTYLTIN	2.0	ND

DF = DILUTION FACTOR

ND = ANALYTE NOT DETECTED AT OR ABOVE THE INDICATED REPORTING LIMIT

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE PARAMETER	ACCEPTANCE CRITERIA	% RECOVERY
TRIPROPYLTIN	68-142	97

PTAS DCN 300-059 (Rev 01/00)



ANALYSIS RESULTS - ORGANOTIN SPECIES by GC-FPD

CLIENT: CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.

DATE SAMPLED: 03/30/00

PROJECT NAME/No.: 00-03-1139, 00-03-138

DATE RECEIVED: 04/04/00

PTAS LOG #: 0797-00-1

DATE EXTRACTED: 04/12/00

SAMPLE ID: VC00-A3-05-COMP

DATE ANALYZED: 04/12/00

DILUTION FACTOR: 1

MATRIX: SOLID

SAMPLE VOL./WT.: 10 G

ANALYTE	REPORTING LIMIT PPB (UG/KG)	RESULTS PPB (UG/KG)
TRIBUTYL TIN	1.0	ND
DIBUTYL TIN	2.0	ND
MONOBUTYL TIN	2.0	ND

DF = DILUTION FACTOR

ND = ANALYTE NOT DETECTED AT OR ABOVE THE INDICATED REPORTING LIMIT

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE PARAMETER	ACCEPTANCE CRITERIA	% RECOVERY
TRIPROPYL TIN	68-142	91

PTAS DCN 300-059 (Rev 01/00)



Pacific Treatment Analytical Services, Inc. 4340 Viewridge Ave. Suite A • San Diego, CA 92123 (658) 560-7717 FAX (658) 560-7718

ANALYSIS RESULTS - ORGANOTIN SPECIES by GC-FPD

CLIENT: CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.

DATE SAMPLED: 03/30/00

PROJECT NAME/No.: 00-03-1139, 00-03-138

DATE RECEIVED: 04/04/00

PTAS LOG #: 0797-00-1 (DUPLICATE)

DATE EXTRACTED: 04/12/00

SAMPLE ID: VC00-A3-05-COMP (DUPLICATE)

DATE ANALYZED: 04/12/00

DILUTION FACTOR: 1

MATRIX: SOLID

SAMPLE VOL./WT.: 10 G

ANALYTE	REPORTING LIMIT PPB (UG/KG)	RESULTS PPB (UG/KG)
TRIBUTYL TIN	1.0	ND
DIBUTYL TIN	2.0	ND
MONOBUTYL TIN	2.0	ND

DF = DILUTION FACTOR

ND = ANALYTE NOT DETECTED AT OR ABOVE THE INDICATED REPORTING LIMIT

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE PARAMETER	ACCEPTANCE CRITERIA	% RECOVERY
TRIPROPYL TIN	68-142	74

PTAS DCN 300-059 (Rev 01/00)



ANALYSIS RESULTS - ORGANOTIN SPECIES by GC-FPD

CLIENT: CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.

DATE SAMPLED: 03/30/00

PROJECT NAME/No.: 00-03-1139, 00-03-138

DATE RECEIVED: 04/04/00

PTAS LOG #: 0797-00-2

DATE EXTRACTED: 04/12/00

SAMPLE ID: VC00-A3-05-COMP REP

DATE ANALYZED: 04/12/00

DILUTION FACTOR: 1

MATRIX: SOLID

SAMPLE VOL./WT.: 10 G

ANALYTE	REPORTING LIMIT PPB (UG/KG)	RESULTS PPB (UG/KG)
TRIBUTYLTIN	1.0	ND
DIBUTYLTIN	2.0	ND
MONOBUTYLTIN	2.0	ND

DF = DILUTION FACTOR

ND = ANALYTE NOT DETECTED AT OR ABOVE THE INDICATED REPORTING LIMIT

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE PARAMETER	ACCEPTANCE CRITERIA	% RECOVERY
TRIPROPYLTIN	68-142	95

PTAS DCN 300-059 (Rev 01/00)



Pacific Treatment Analytical Services, Inc. 4140 Viewridge Ave., Suite A • San Diego, CA 92123 (858) 560-7717 FAX (858) 560-7718

ANALYSIS RESULTS - ORGANOTIN SPECIES by GC-FPD

CLIENT: CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.

DATE SAMPLED: 03/30/00

DATE RECEIVED: 04/04/00

PROJECT NAME/No.: 00-03-1139, 00-03-138

DATE EXTRACTED: 04/12/00

PTAS LOG #: 0797-00-3

DATE ANALYZED: 04/12/00

SAMPLE ID: VC00-A3-07-COMP

MATRIX: SOLID

DILUTION FACTOR: 1

SAMPLE VOL./WT.: 10 G

ANALYTE	REPORTING LIMIT PPB (UG/KG)	RESULTS PPB (UG/KG)
TRIBUTYLTIN	1.0	ND
DIBUTYLTIN	2.0	ND
MONOBUTYLTIN	2.0	ND

DF = DILUTION FACTOR

ND = ANALYTE NOT DETECTED AT OR ABOVE THE INDICATED REPORTING LIMIT

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE PARAMETER	ACCEPTANCE CRITERIA	% RECOVERY
TRIPROPYLTIN	68-142	100

PTAS DCN 300-059 (Rev 01/00)



QA/QC REPORT					
METHOD: ORGANOTIN SPECIES BY GC-FPD-WATER				ACCEPTABLE LCS/LCSD CRITERIA	ACCEPTABLE RPD CRITERIA
DATE ANALYZED: 04/10/00					
QA/QC SAMPLE: PTAS 0797-00 BLANK					
SPIKED ANALYTE	LCS % R	LCSD % R	RPD	%	%
TRIBUTYL TIN	96	101	5	61-143	< 30
DIBUTYL TIN	63	78	21	D-163	< 30
MONOBUTYL TIN	6.0	18.5	102	D-16	< 30*

LCS % R = LABORATORY CONTROL SAMPLE PERCENT RECOVERY

LCSD % R = LABORATORY CONTROL SAMPLE DUPLICATE PERCENT RECOVERY

RPD = RELATIVE PERCENT DIFFERENCE

D = DETECTION LIMIT

* NOTE: DUE TO LOW % RECOVERY ACCEPTANCE CRITERIA, THIS RPD VALUE IS FREQUENTLY EXCEEDED. ALL OTHER QC DATA INDICATES METHOD IS IN CONTROL.

PTAS DCN 300-058 (Rev 01/00)



Pacific Treatment Analytical Services, Inc. 4040 Viewridge Ave. Suite A • San Diego, CA 92123 (619) 560-7717 FAX (619) 560-7718

QA/QC REPORT

QA/QC REPORT					ACCEPTABLE LCS,MS/MSD CRITERIA	ACCEPTABLE RPD CRITERIA
METHOD:	ORGANOTIN SPECIES BY GC-FPD-SOLID					
DATE ANALYZED:	04/12/00					
QA/QC SAMPLE:	PTAS 0797-00-2					
SPIKED ANALYTE	LCS % R	MS % R	MSD % R	RPD	%	%
TRIBUTYL TIN	91	85	86	1	35-142	< 30
DIBUTYL TIN	95	77	73	5	D-161	< 30
MONOBUTYL TIN	5.2	1.5	1.5	0	D-75	< 30

LCS % R = LABORATORY CONTROL SAMPLE PERCENT RECOVERY

MS % R = MATRIX SPIKE PERCENT RECOVERY

MSD % R = MATRIX SPIKE DUPLICATE PERCENT RECOVERY

RPD = RELATIVE PERCENT DIFFERENCE

D = DETECTION LIMIT

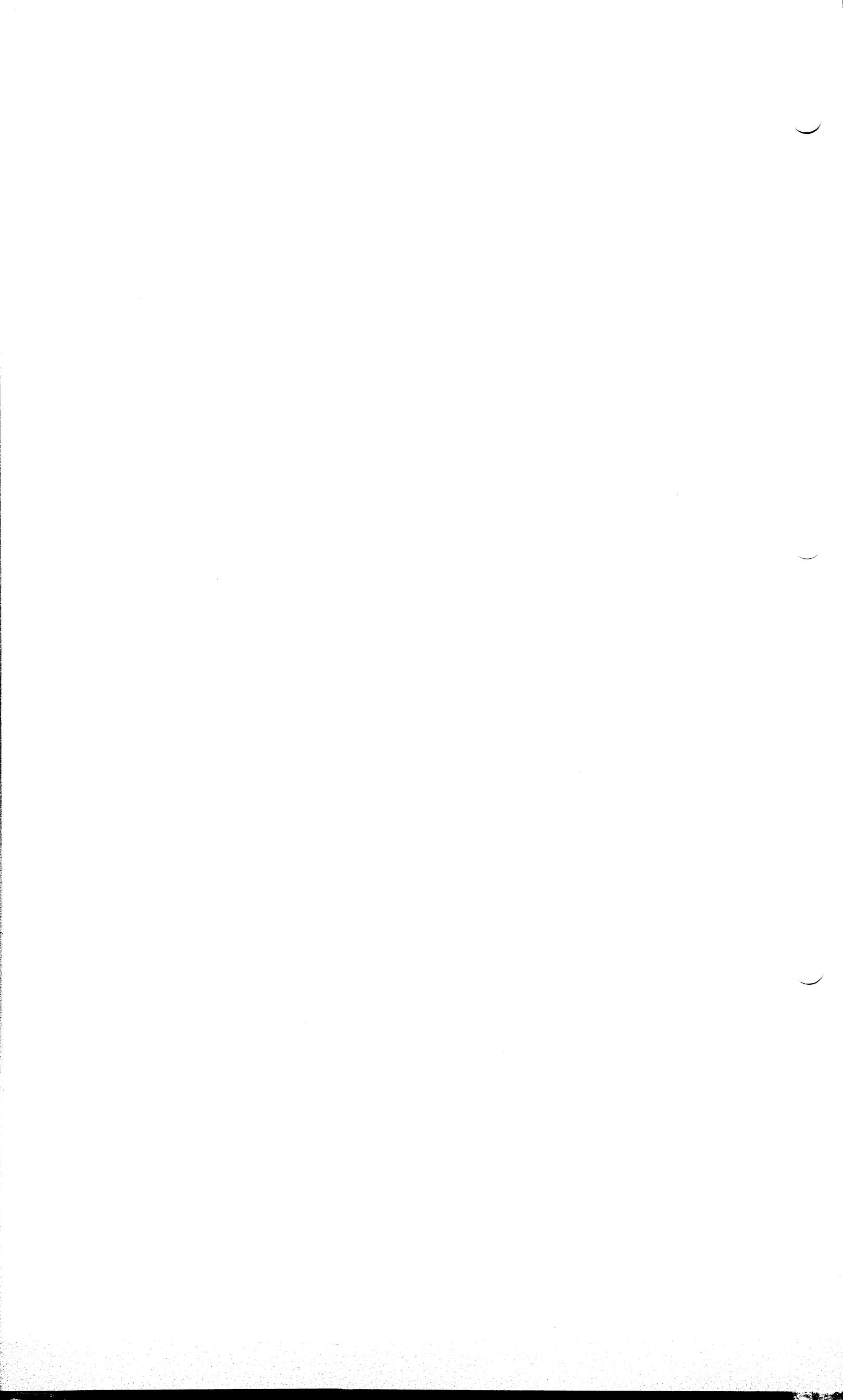
PTAS DCN 300-059 (Rev 01/00)





Wet Chemistry Raw Data

Geomatrix Consultants



pH EPA Method: 150.1 9040 9040

Analyst: LB Date 03/31/00

Group Leader: _____ Date _____ / _____ / _____

Standard Name / Lot Number	Buffer Value	pH Reading	Control Limit
STD-1 6002-015-15	7.00	7.02	
STD-2 -16	10.00	10.07	
STD-3 -14	4.00	4.01	
LCS 6002-025-21	7.00	7.03	±0.05

Date Analyzed	Work Order Number	Matrix		Dilution Factor	Conc (pH Units)	Temperature (°C)	RPD	RL	Comment
		S=Soil A=Aqueous O=Oil Other(Specify)	S A O						
03/31/00	00-03-1138-1	S A O	S A O	1	6.45	25		0.01	
	00-03-1145-2	S A O	S A O	1	7.38	25		0.01	
	00-03-1157-1	S A O	S A O	1	7.70	25		0.01	
	00-03-1188-1	S A O	S A O	1	7.78	25		0.01	
	00-03-1176-1	S A O	S A O	1:1	8.31	25		0.01	
	00-03-1176-1 DUPLICATE	S A O	S A O	1:1	8.34	25		0.01	
		S A O	S A O						
		S A O	S A O						
		S A O	S A O						
		S A O	S A O						
		S A O	S A O						
		S A O	S A O						
		S A O	S A O						
03/31/00	Duplicate 00-03-1138-1	S A O	S A O	1	6.49			0.01	

Reviewed by _____ Date _____ / _____ / _____

EPA Method I 1376.2 [X]SW-846

Sulfide Raw Data

CalScience Environmental Laboratories

Prep Date	Standard Name / Code	Concentration (ppm)	Color	RF	RF	Absorbance
7/6/99	STD-1 M.B. G070697E	1000				
	STD-2	100				

Date Analyzed	Work Order Number	Original W(g), V(mL)	Final Vol (mL)	Dilution Factor	Color Comparison		pH > 9?	Sample Conc (mg/kg)	Reportable Limit (mg/kg)	Analyst / Comments
					Visual					
3/30/00	Blank	10.0g	50	5	white		Y N	ND	0.5	SP
	00-03-1076-1	10.00g			white		Y N	ND		
	-1	10.019			white		Y N	ND		
3/30/00	Blank	7.5	7.5	1	white		Y N	ND	0.05	SP
	00-03-933-3	7.5	7.5	1	white		Y N	ND		
	933-317	7.5	7.5	1	white		Y N	ND		
	1056-2	7.5	7.5	1	white		Y N	ND		
	1057-2	7.5	7.5	1	white		Y N	ND		
	1067-1	7.5	7.5	1	white		Y N	ND		
	1112-1	7.5	7.5	1	white		Y N	ND		ZnAc
	1138-1	7.5	7.5	1	white		Y N	ND		ZnAc
	1138-17	7.5	7.5	1	white		Y N	ND		
Duplicate:							Y N		%D	

Standard Name / Code	Prep Date	Conc (N)	Date Standardized
STD-1 42504 / 6002-025-24	Fisher	0.02	3/14/00

Method Name/Number: FA 350-2
 Analyst: IR Date 3/31/00
 Group Leader: _____ Date / /

Quality Control

Date Analyzed	Work Order Number	Conc	Conc Duplicate	RPD	Control Limit
3/31/00	60-03-110-1	74	75	1	0-25

Date Analyzed	Work Order Number	Initial W(g)	Initial Vol (mL)	Final Vol (mL)	VO (mL)	V1 (mL)	Dilution Factor	Initial Conc mg/kg	Final Conc mg/kg	RL	Comment
3/31/00	MB	500	500	200	0.00	0.00		ND	ND	0.1	
	CS	500	500	200	0.00	8.68		4.86	4.9	0.1	
	60-03-110-1	50	50	200	0.00	13.30		74.48	74	1	PHC; CBC
	60-03-118-1	50	50	200	0.00	6.50		36.40	36	1	
	60-03-1138-1	500	500	200	0.00	0.00		ND	ND	0.1	
	60-03-1110-1	50	50	200	0.00	13.36		74.81	75	1	PHC; CBC

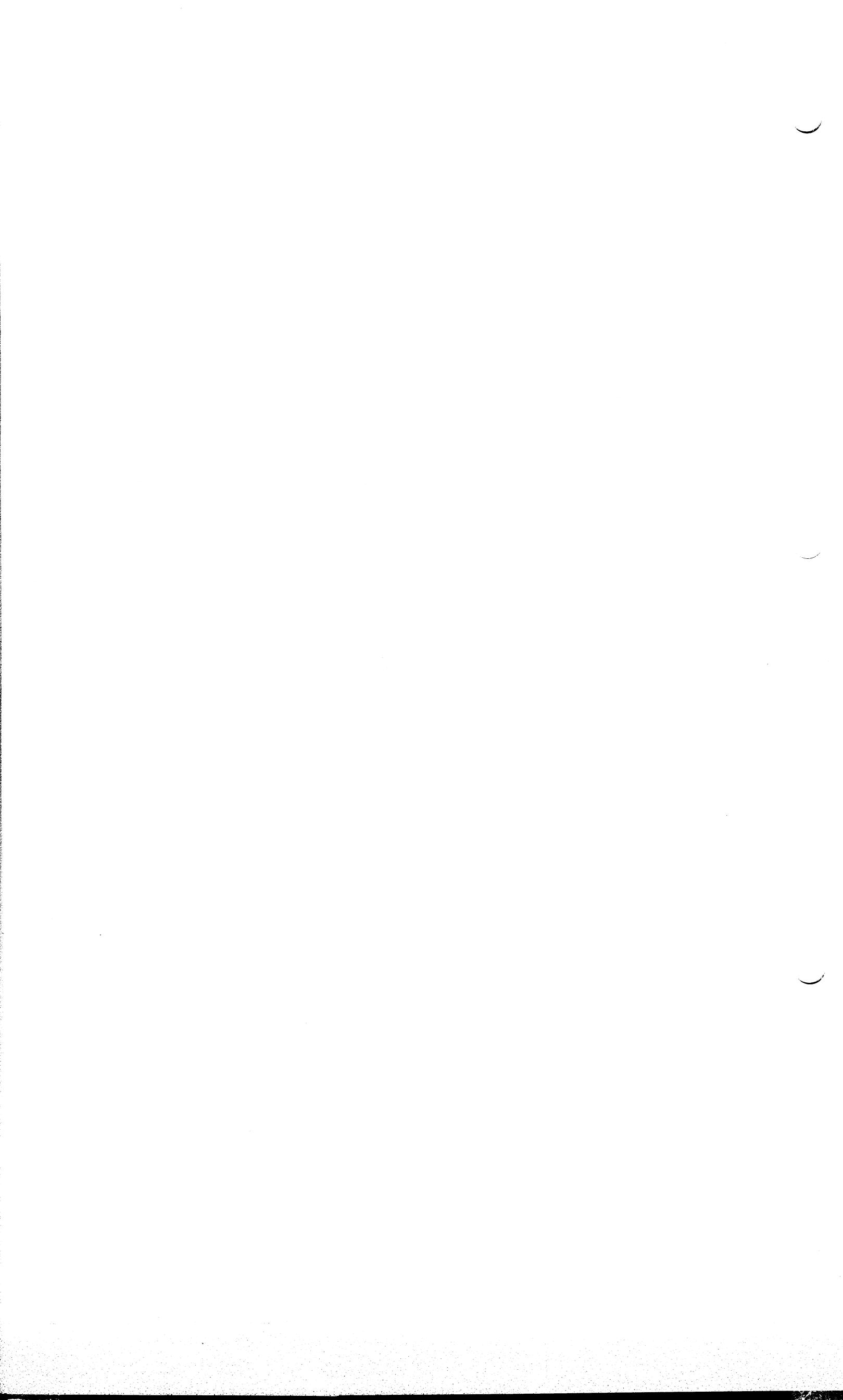
Reviewed by: _____ Date: _____ / _____ / _____





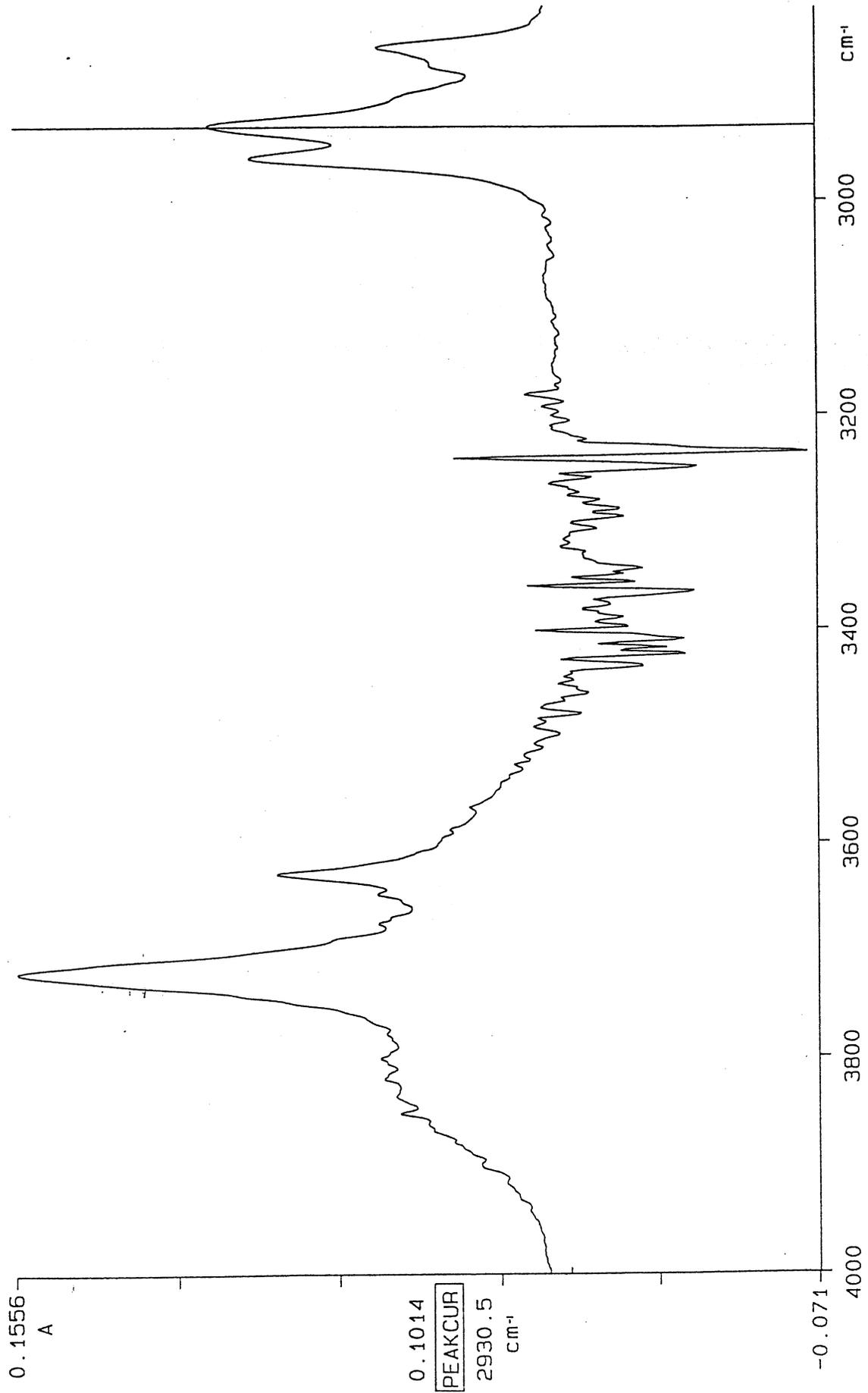
**TRPH (EPA 418.1)
Raw Data**

Geomatrix Consultants



PERKIN ELMER

03/28/00
2
Std. 10 ppm



0.1014
2930.5
cm⁻¹

00/03/28 09:04 J.H.MOON
X: 1 scan, 4.0cm⁻¹

03/28/00
for
Stel.20 pppol

PERKIN ELMER

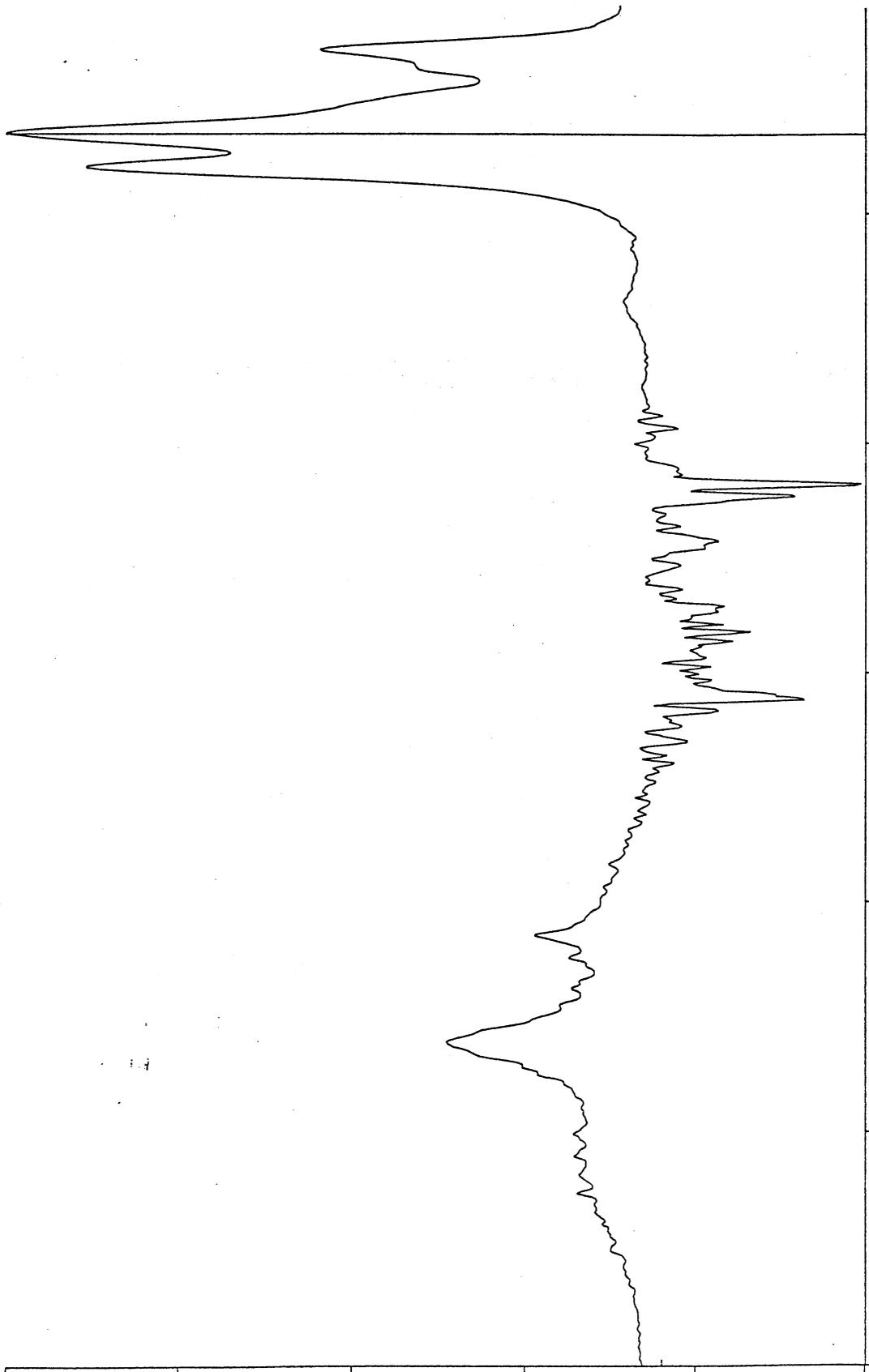
0.1974
A

0.1974
PEAKCUR
2930.7
cm⁻¹

-0.063

4000 3800 3600 3400 3200 3000 cm⁻¹

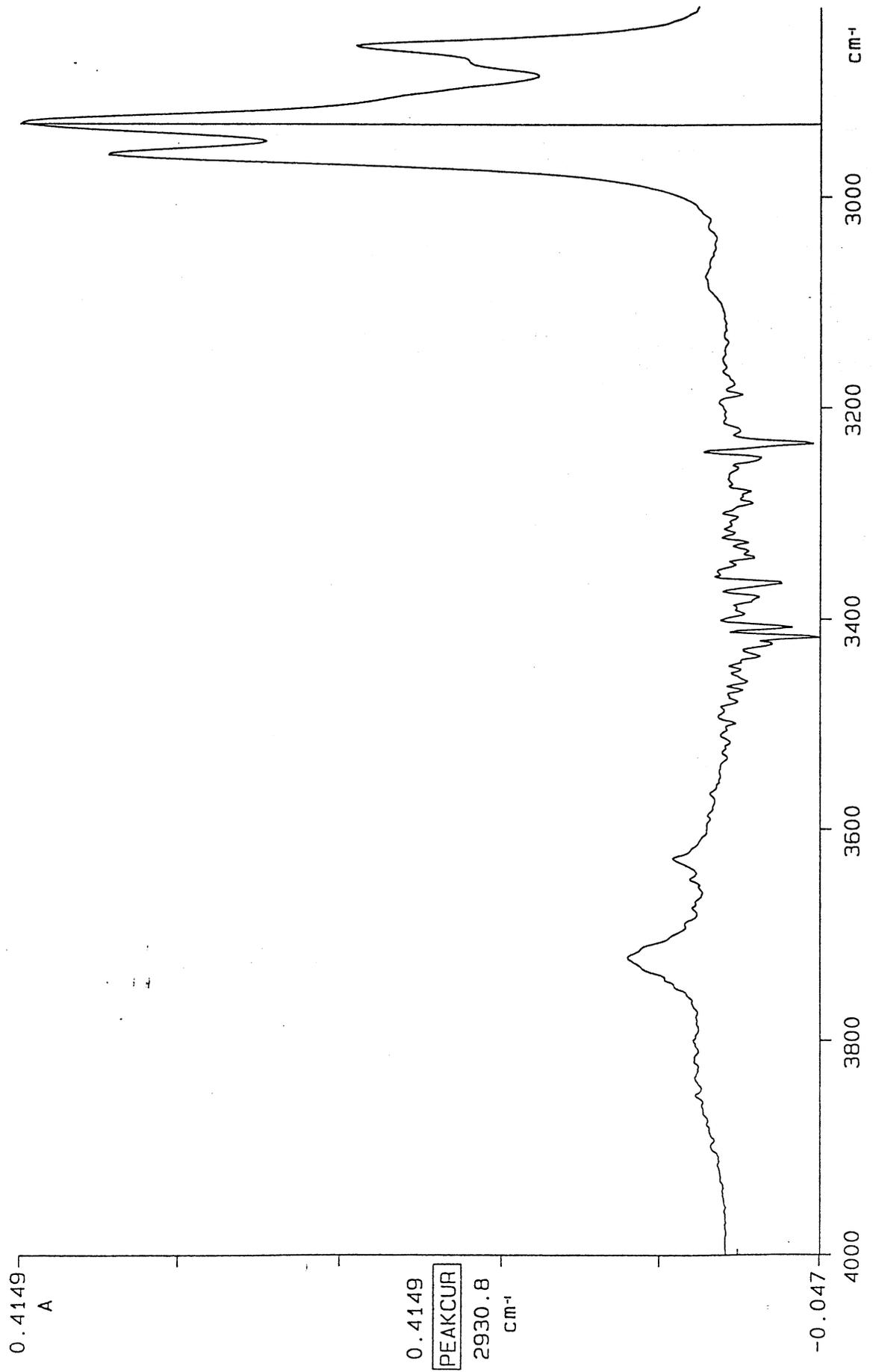
00/03/28 09:09 J.H.MOON
X: 1 scan, 4.0cm⁻¹



PERKIN ELMER

03/28/00
gr

Std. 4017900



00/03/28 09:13 J.H. MOON
X: 1 scan, 4.0cm-1

03/28/00
r

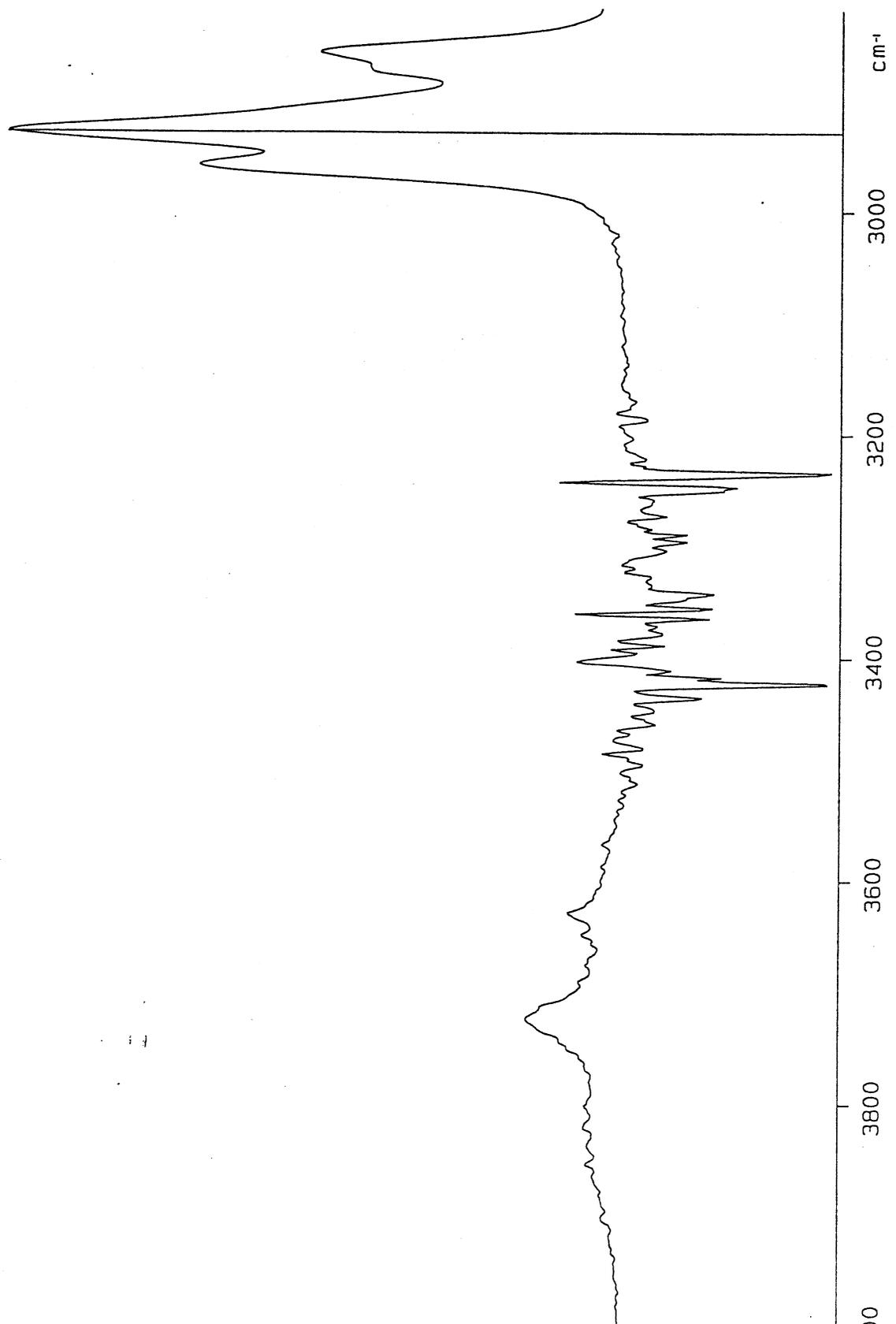
2nd scan

PERKIN ELMER

0.1986
A

0.1986
PEAKCUR
2929.3
cm⁻¹

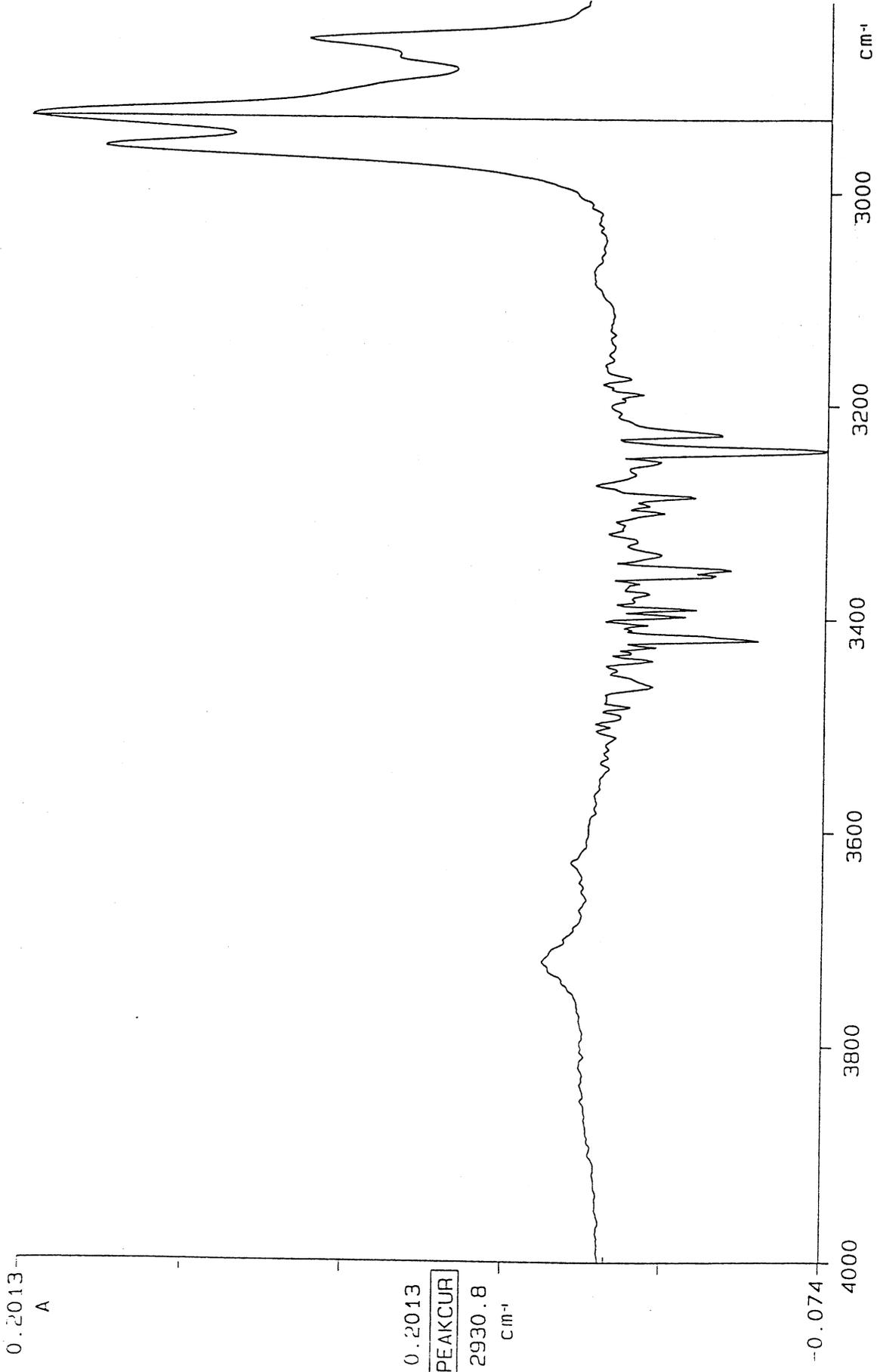
-0.067



00/03/28 09:17 J.H.MOON
X: 1 scan, 4.0cm-1

IR KIN EIM

04/04/00
fr
Std. 20 ppm



00/04/04 10:30 J.H.MOON
X: 1 scan, 4.0cm-1

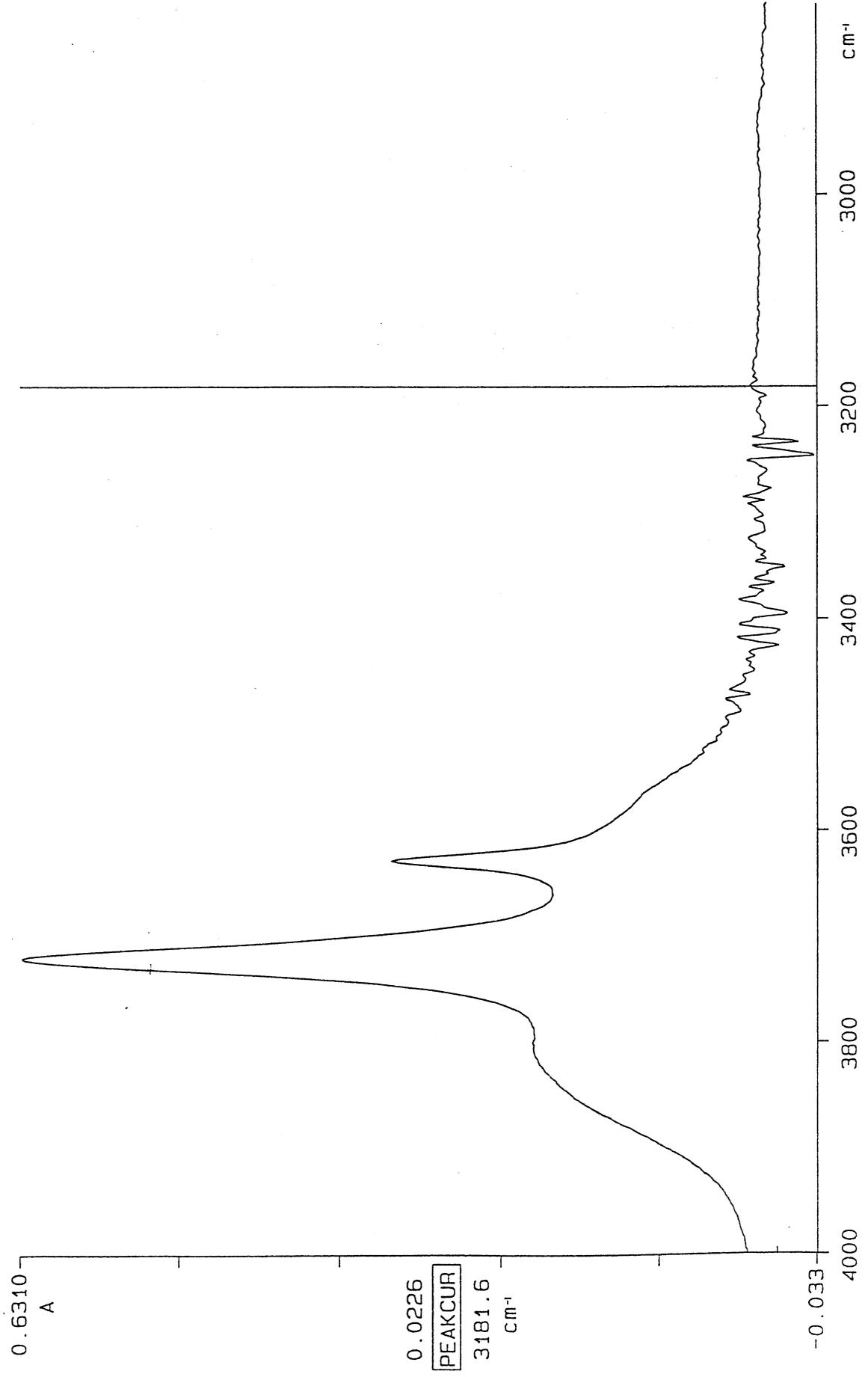
04/02/02

7

17B

ND

PERKIN ELMER



00/04/04 13:52 J.H.MOON

X: 1 scan, 4.0cm⁻¹

PERKIN ELMER

0.5307
A

0.2039

PEAKCUR

2929.5

CM⁻¹

-0.055

4000 3800 3600 3400 3200 3000 CM⁻¹

04/04/00
Jr
LCS.

00/04/04 13:56 J.H.MOON
X: 1 scan, 4.0cm-1

PERKIN ELMER

0.6166
A

0.2033
PEAKCUR
2929.8
cm⁻¹

-0.037

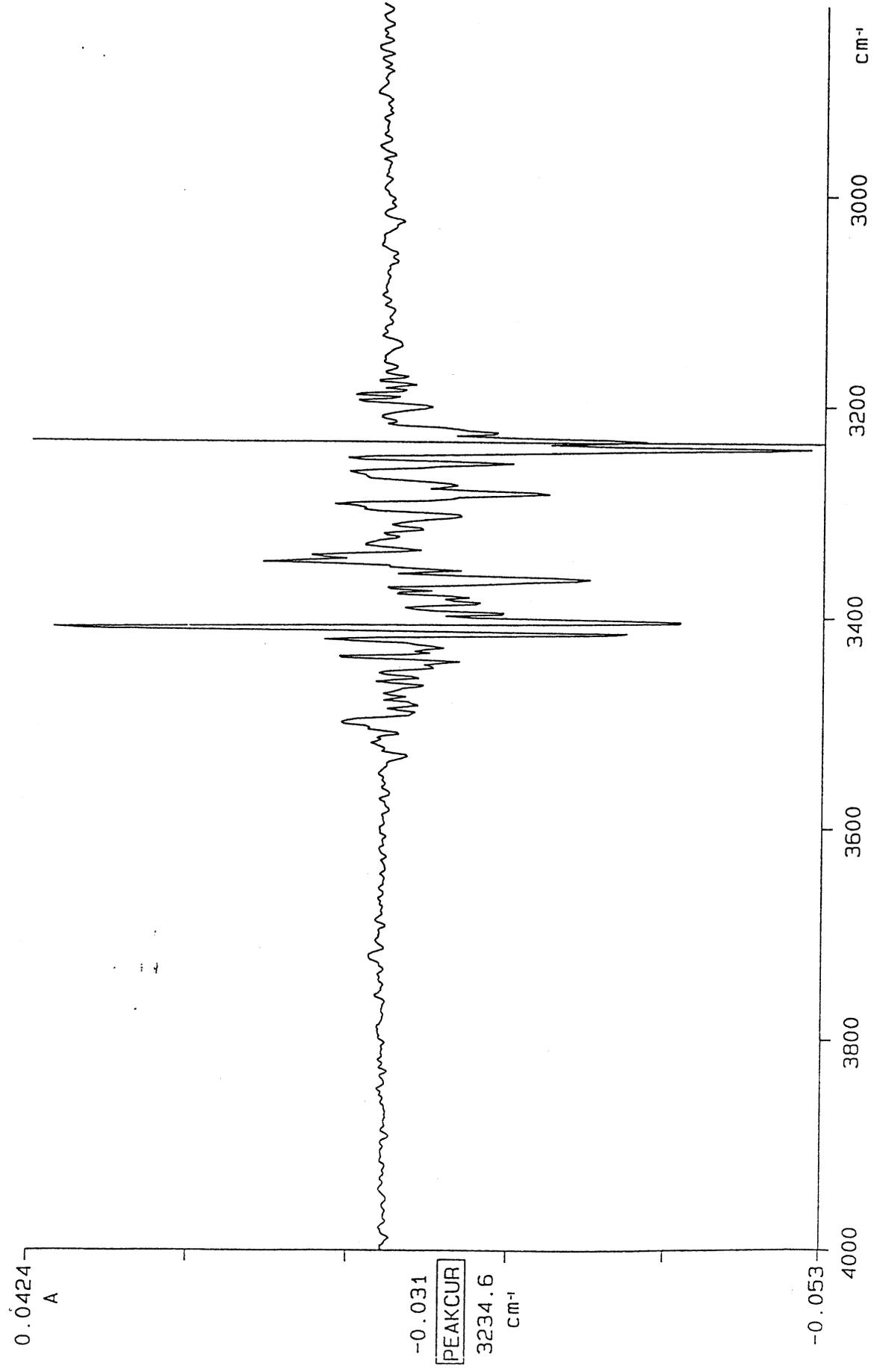
4000 3800 3600 3400 3200 3000 cm⁻¹

04/04/00
gr
LCSD

00/04/04 13:58 J.H.MOON
X: 1 scan, 4.0cm-1

PERKIN ELMER

4/04/00
J
Treat
2-2-78-20



00/04/04 09:08 J.H.MOON
X: 1 scan, 4.0cm-1

Standard	Standard ID	Conc. (ppm)	Abs.	RF	Mean RF:			
1					47			
2	L032800 B	20	0.201	100	% RSD: 3			
3					Date: 3/28/02			
					% D: 1			
Sample Number	Batch Number	(μ l) Aliquots / Final Vol (ml)	Standard ID / Conc (ppm) / Vol (ml)	Dilution	Abs.	Conc. (ppm)	REC (%)	RPD
Method Blank	000404224	500 / 50	NA	NA	-	ND	NA	NA
LCS			2032800 B 4000/25		0.204	2.0	100	
MS	LCS D				0.203	2.0	100	
MSD								
CEL ID Number	Date Extracted	μ l Aliquots / Final Vol (ml)	Na ₂ SO ₄ Lot	Freon Lot	Dilution	Abs.	Conc. (ppm)	Analyst
(43.1) 00-03-1138 -1	4/4/00	PH2 < 500 / 50	L2-65-25	L2-78-20	NA	-	ND	gm
(43.1) 00-03-1138 -1						-		
(43.2) 00-03-1187 -1						0.006		
(43.2) 00-03-1188 -1						-		
(43.1) 00-04-0003 -1						0.088	ND	
						0.106	1.1	
						0.070	ND	
						0.147	1.5	

7/2/02

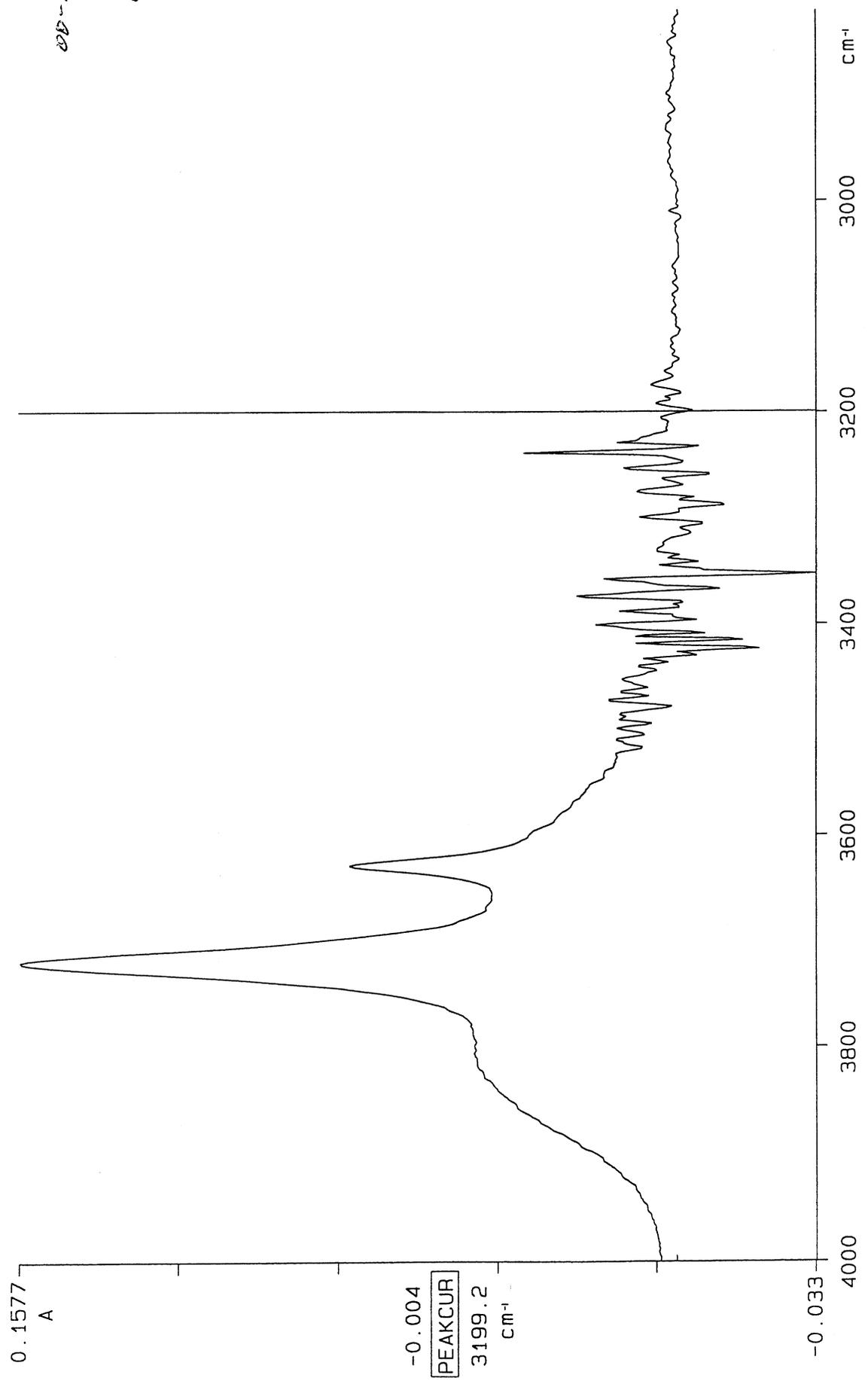
PERKIN ELM

4/04/00
Jr

00-03-1138-1

(418.1)

NO



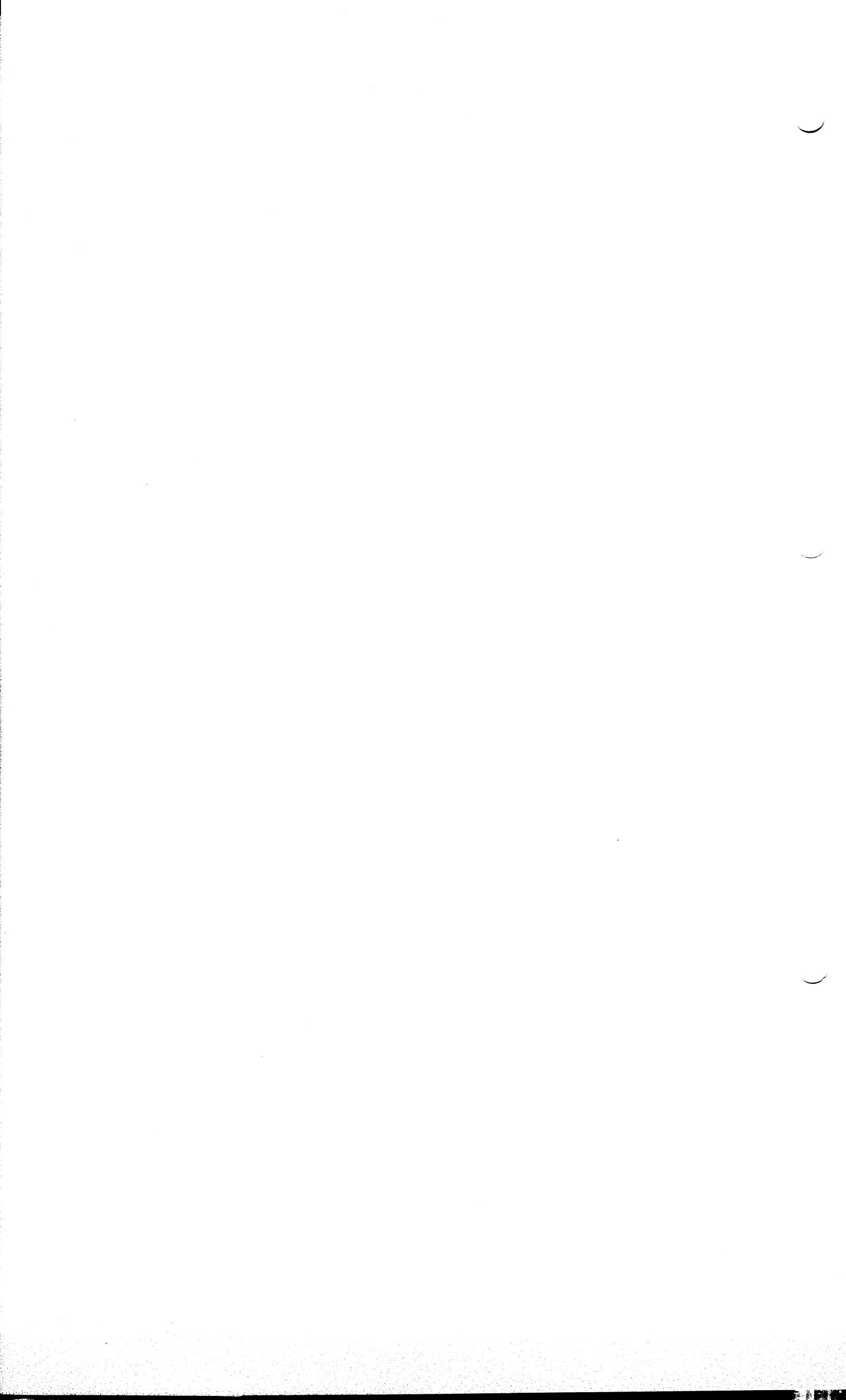
00/04/04 14:08 J.H.MOON
X: 1 scan, 4.0cm-1





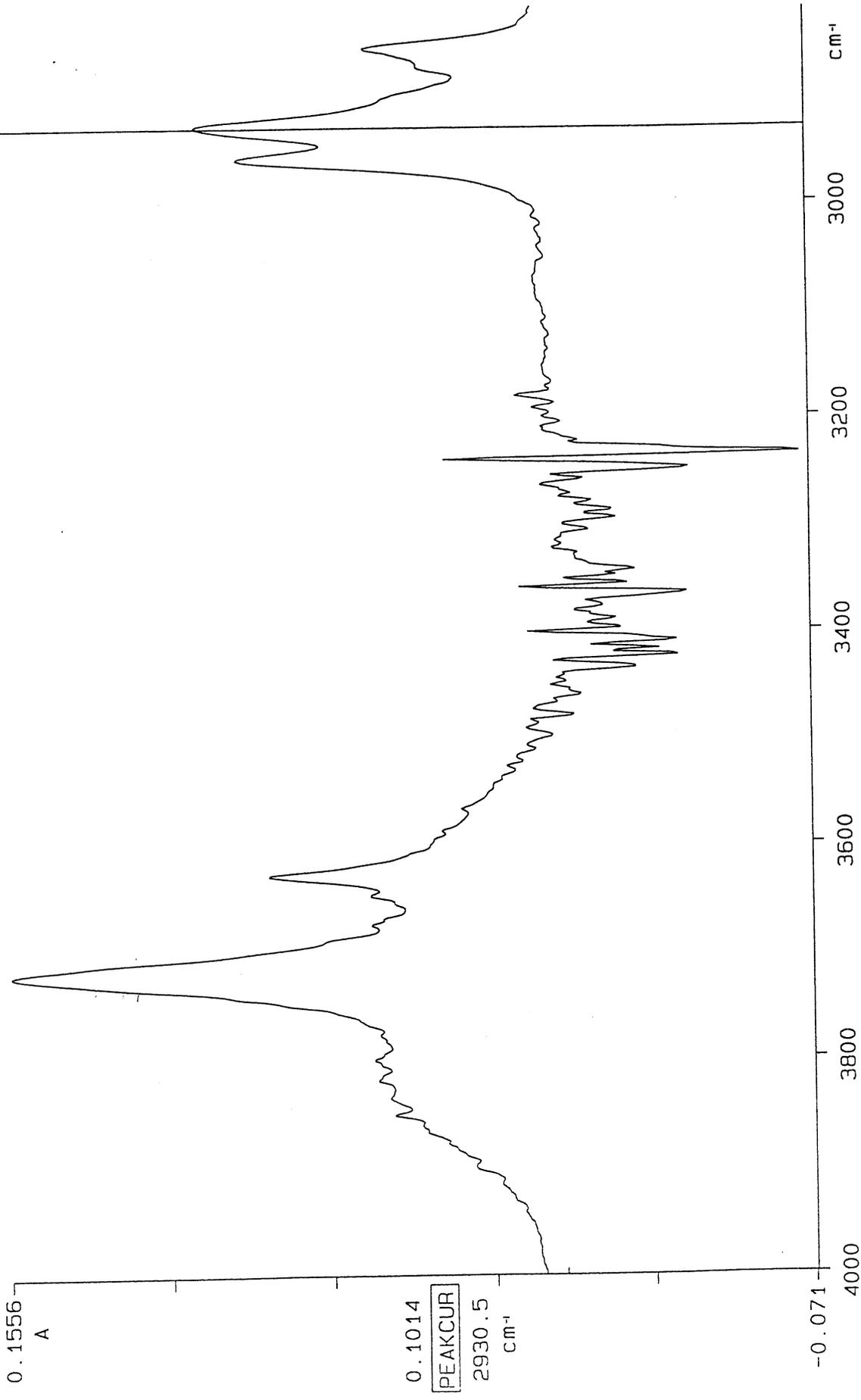
Oil & Grease (EPA 413.2) Raw Data

Geomatrix Consultants



03/28/00
J
Std. 10 199m

PERKIN ELMER



00/03/28 09:04 J.H.MOON
X: 1 scan, 4.0cm-1

03/28/00
for
Stal. 2.0 ppm

PERKIN ELMER

0.1974
A

0.1974

PEAKCUR

2930.7

cm⁻¹

-0.063

4000 3800 3600 3400 3200 3000 cm⁻¹

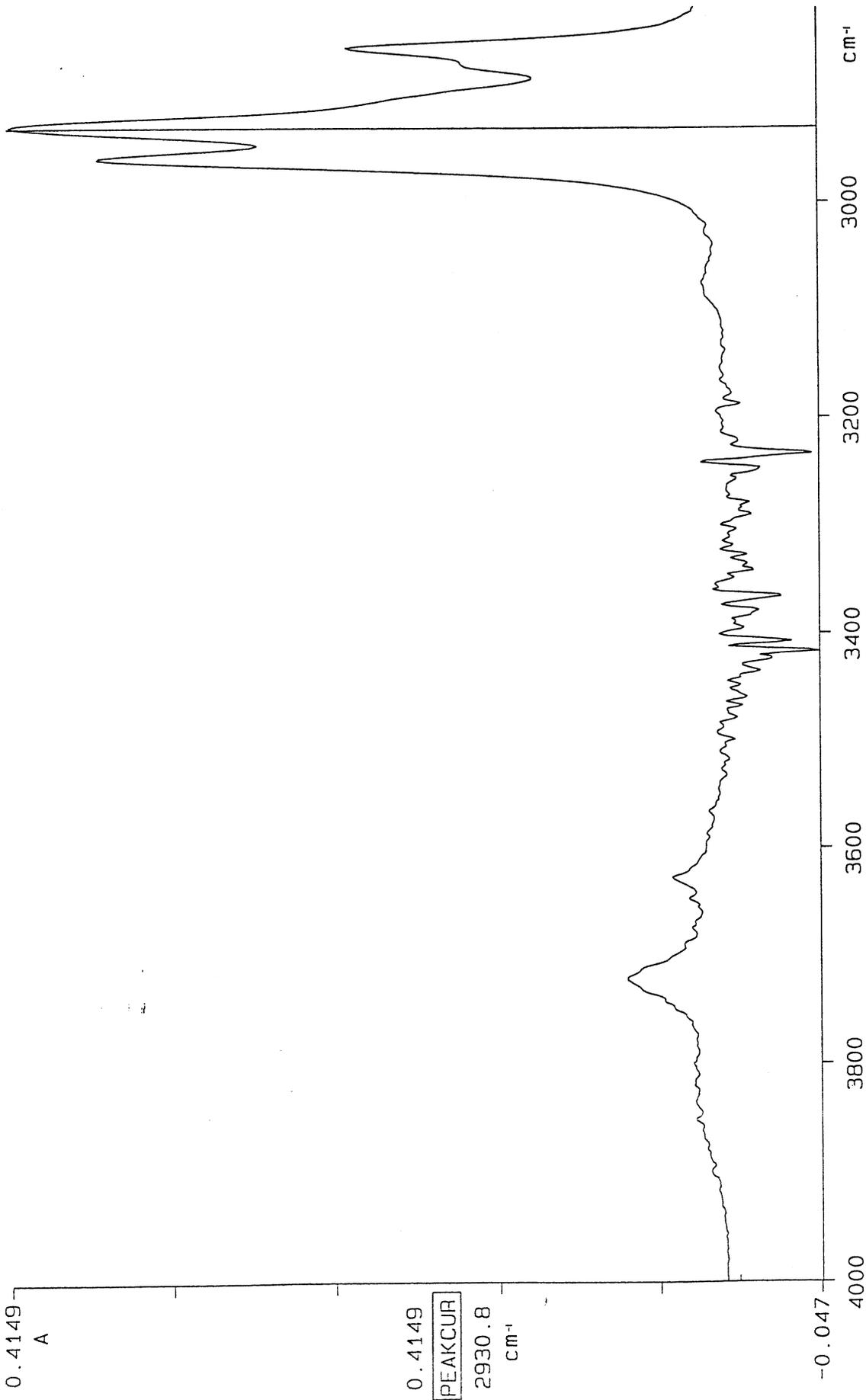
00/03/28 09:09 J.H.MOON

X: 1 scan, 4.0cm-1

PERKIN ELMER

03/28/00
Jr

Std. 40179



00/03/28 09:13 J.H.MOON

X: 1 scan, 4.0cm⁻¹

03/28/00
R

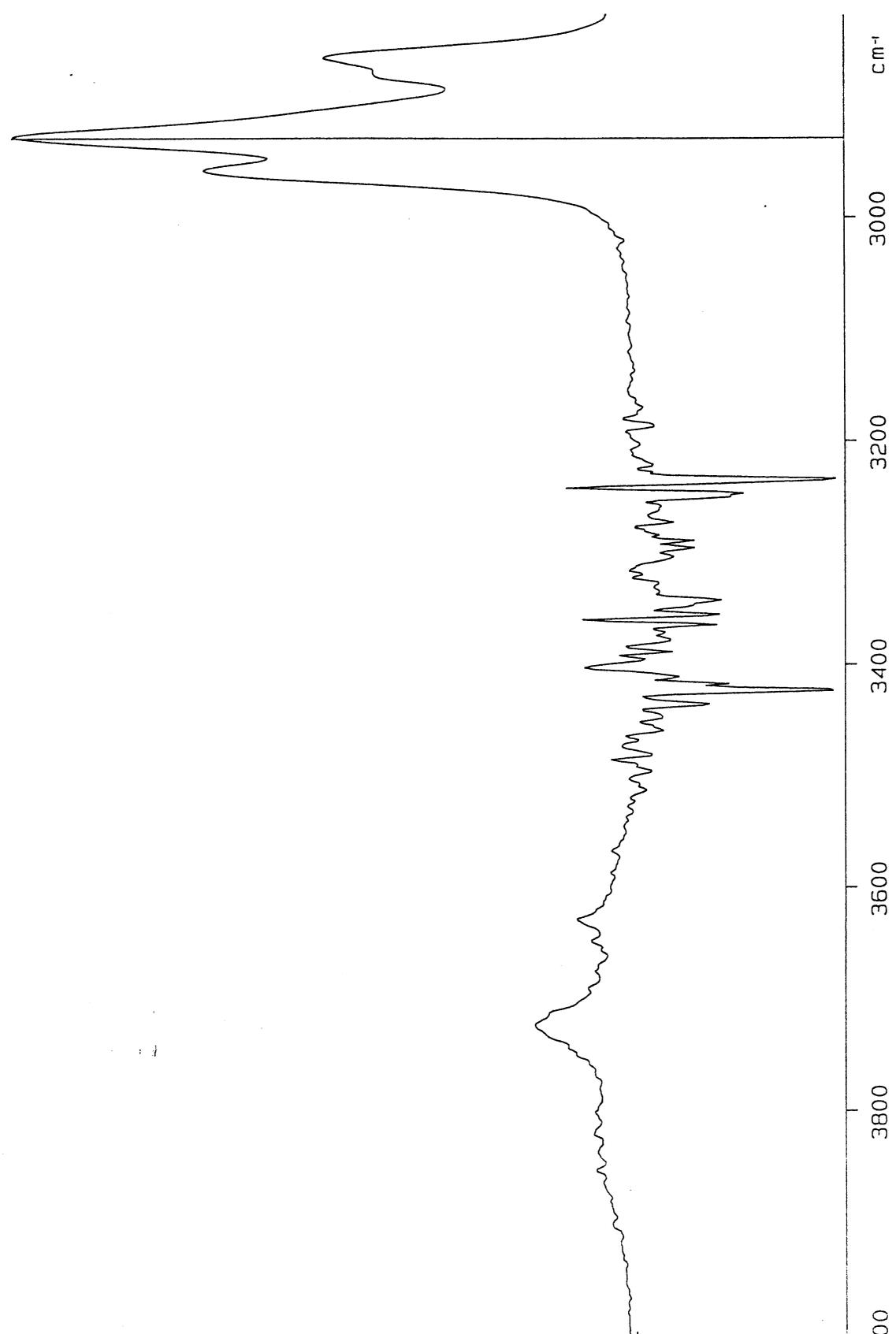
2nd SRC

PERKIN ELMER

0.1986
A

0.1986
PEAKCUR
2929.3
CM⁻¹

-0.067

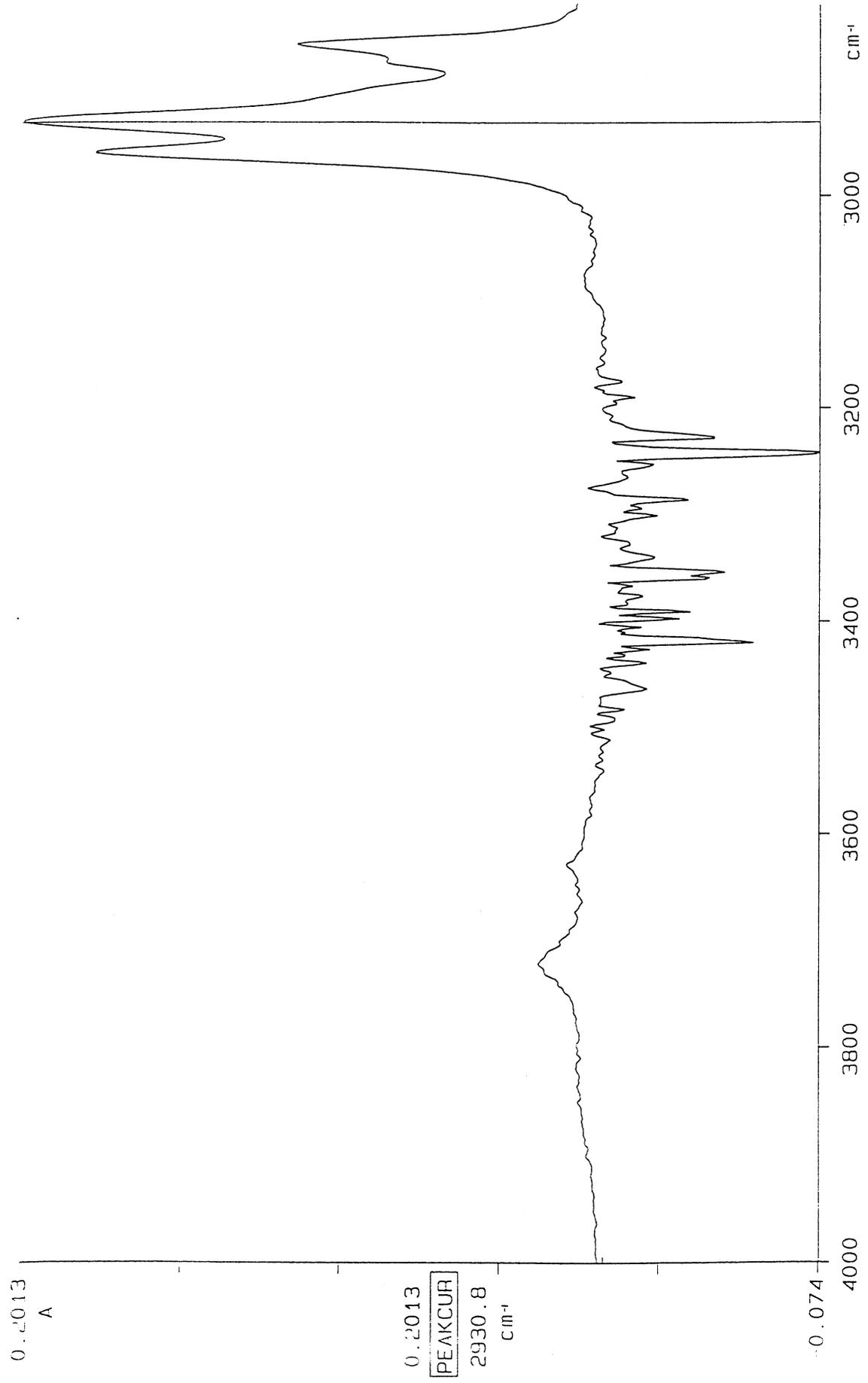


00/03/28 09:17 J.H.MOON
X: 1 scan, 4.0cm-1

(

14 Oct 00
JH
Std. 20 ppm

IR SPECTRUM

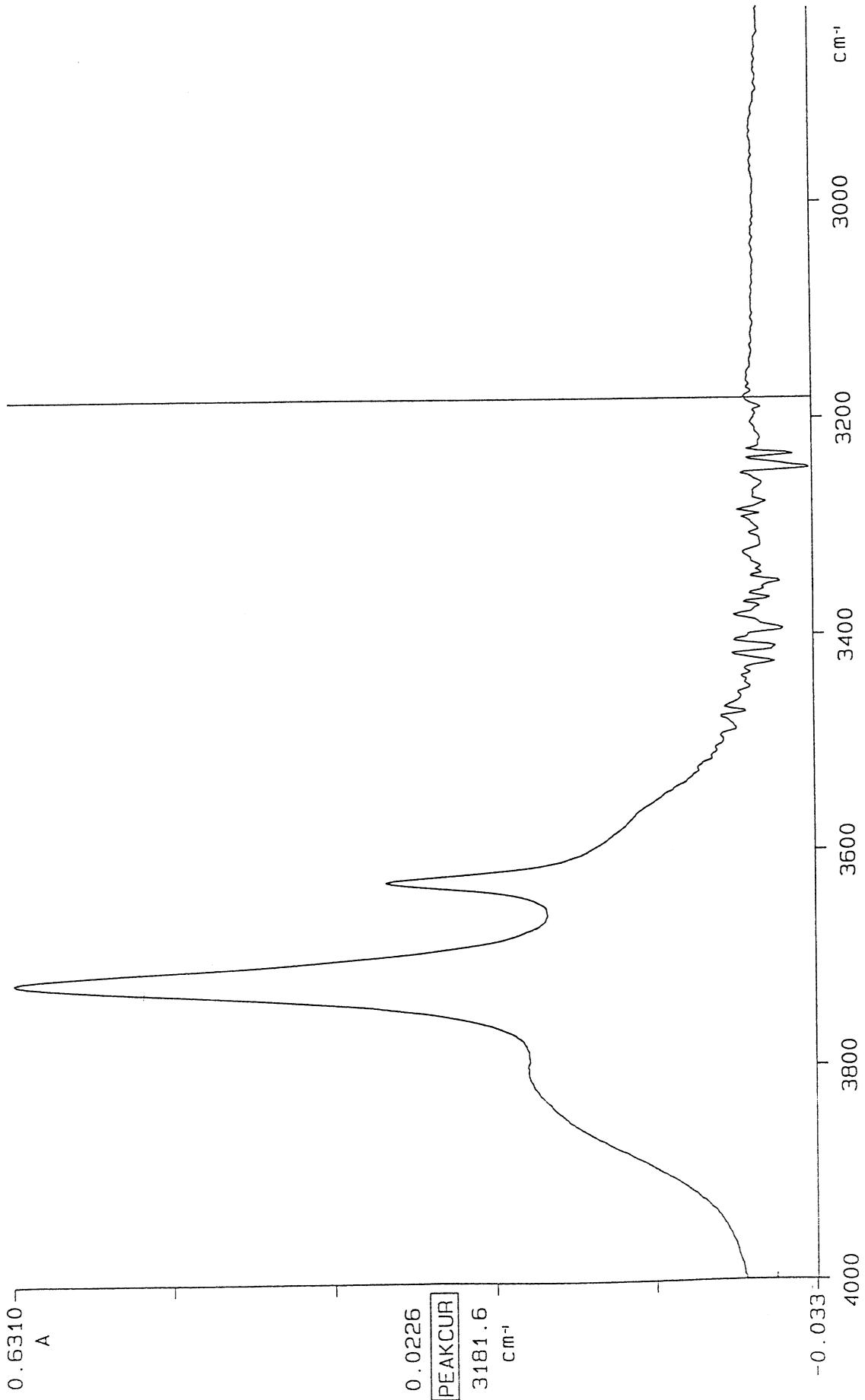


00/04/04 10:30 J.H. MOON

X: 1 scan, 4.0cm⁻¹

04/04/02
J
17B
ND

PERKIN ELMER



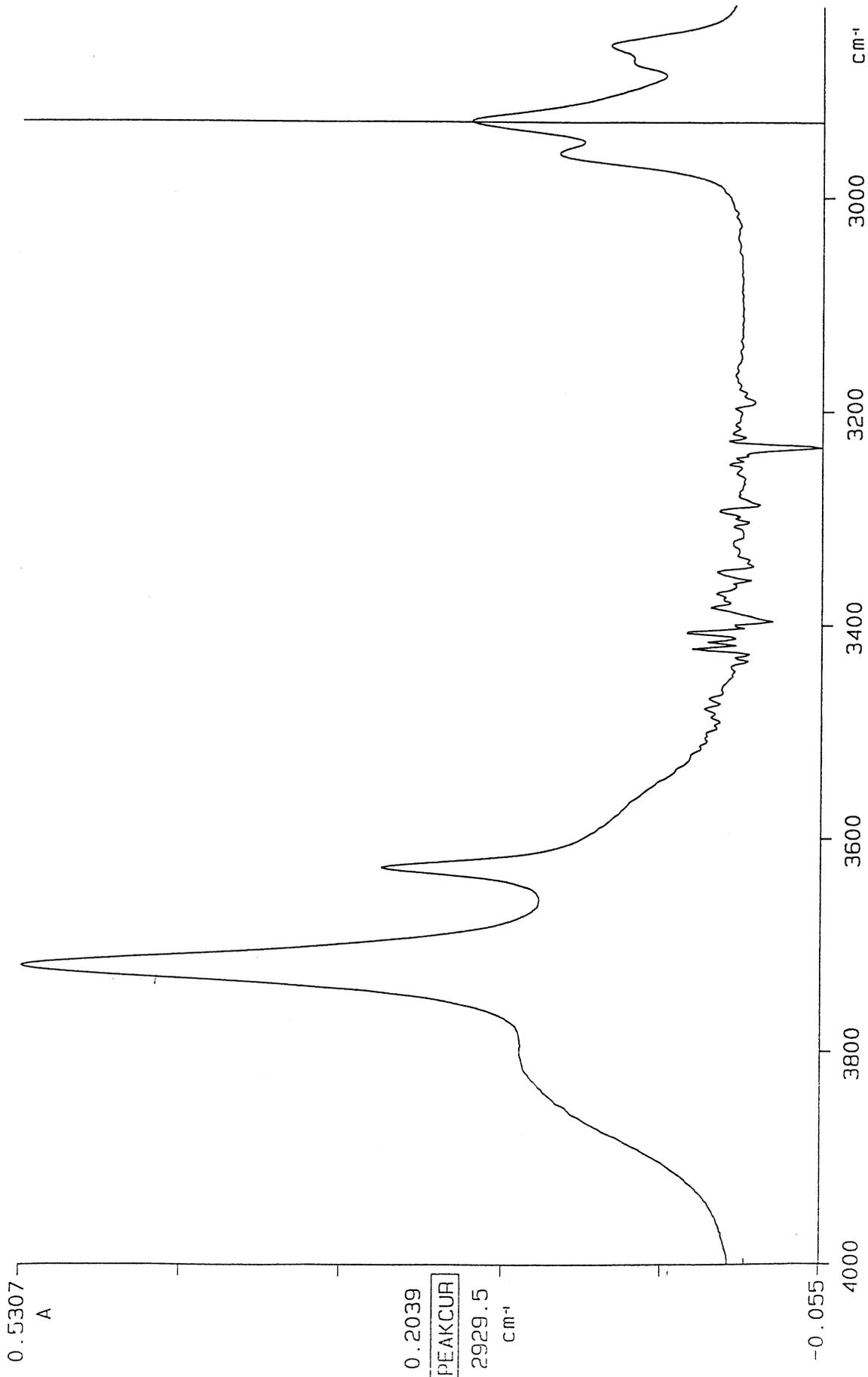
00/04/04 13:52 J.H.MOON
X: 1 scan, 4.0cm⁻¹

PERKIN ELMER

24/04/00

JK

LCS

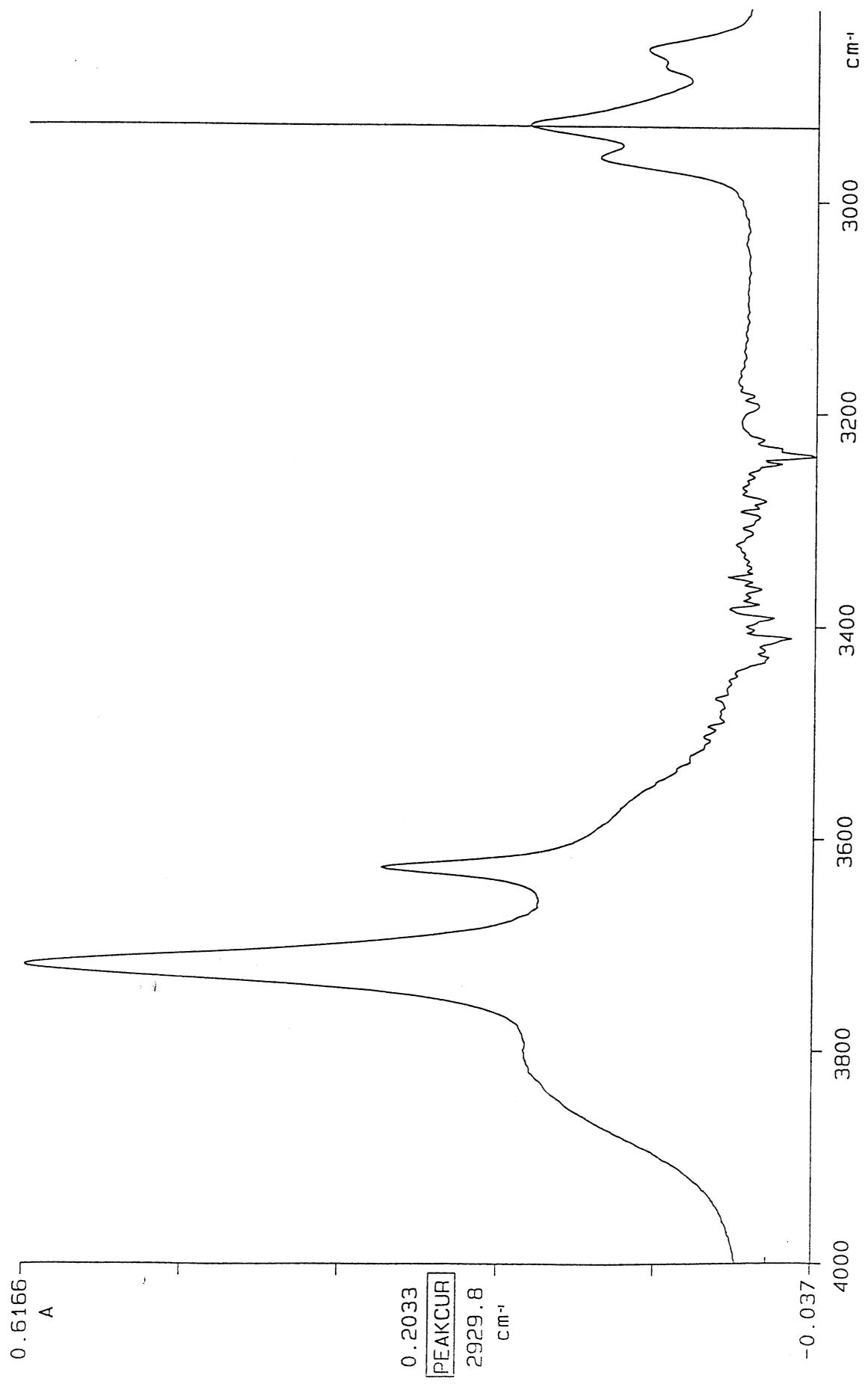


00/04/04 13:56 J.H.MOON

X: 1 scan, 4.0cm-1

PERKIN ELMER

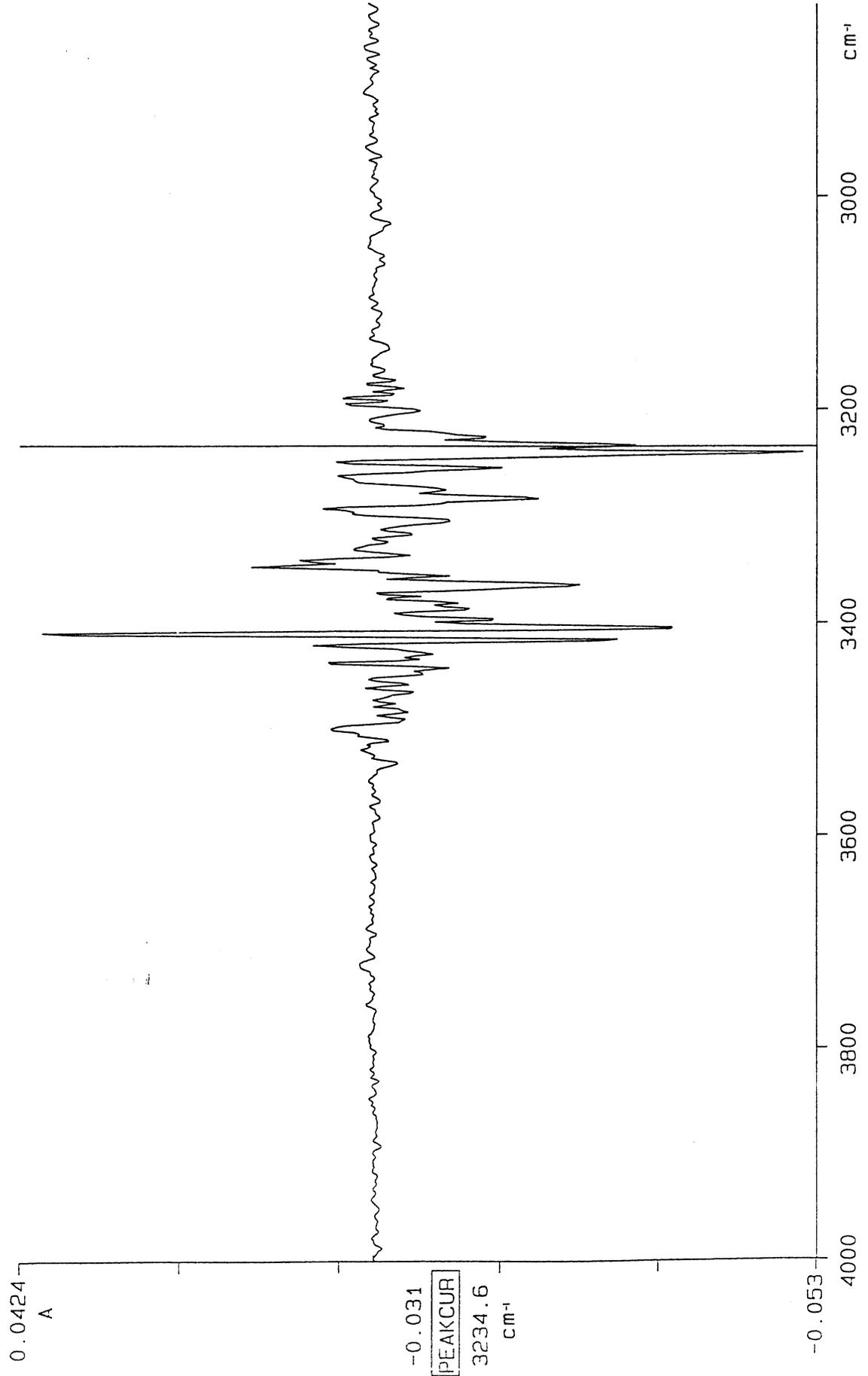
04/04/00
JH
LCSO



00/04/04 13:58 J.H.MOON
X: 1 scan, 4.0cm-1

4/04/00
JF
Elean
22-78-20

PERKIN ELMER



00/04/04 09:08 J.H. MOON
X: 1 scan, 4.0cm-1

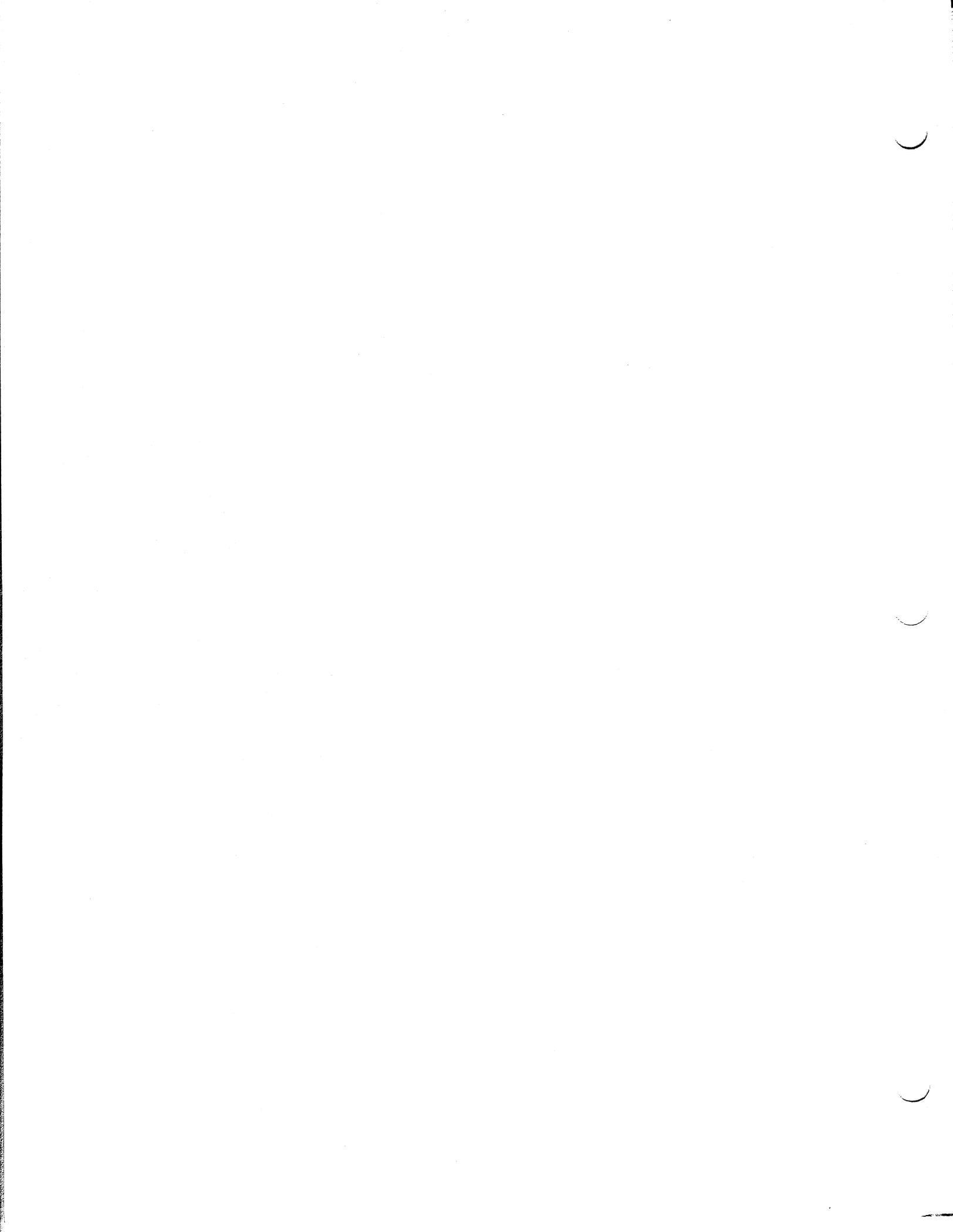
Standard	Standard ID	Conc. (ppm)	Abs.	RF	Mean RF:			
1					57			
2	L032800 B	20	0.201	100	% RSD: 3			
3					Date: 3/28/00			
					% D: 1			
Sample Number	Batch Number	(μ l) Aliquots / Final Vol (ml)	Standard ID / Conc (ppm) / Vol (ml)	Dilution	Abs.	Conc. (ppm)	REC (%)	RPD
Method Blank	000404228	500 / 50	NA	NA	-	ND	NA	NA
LCS			2032800 D 4000/35		0.204	2.0	100	1
MS					0.203	2.0	100	2
MSD								
CEL ID Number	Date Extracted	(μ l) Aliquots / Final Vol (ml)	Na ₂ SO ₄ Lot	Freon Lot	Dilution	Abs.	Conc. (ppm)	Analyst
(413.2) 00-03-1138 -1	4/4/00	pH 2 < 500 / 50	L2-65-25	L2-78-20	NA	-	ND	JFM
(418.1) 00-03-1138 -1						-		
(418.1) 00-03-1187 -1						0.006		
(413.2) 00-03-1188 -1						-		
(413.1) 00-04-0003 -1						0.088	ND	
						0.106	1.1	
						0.070	ND	
						0.147	1.5	

7/4/00



**Metals (EPA 6020)
Raw Data**

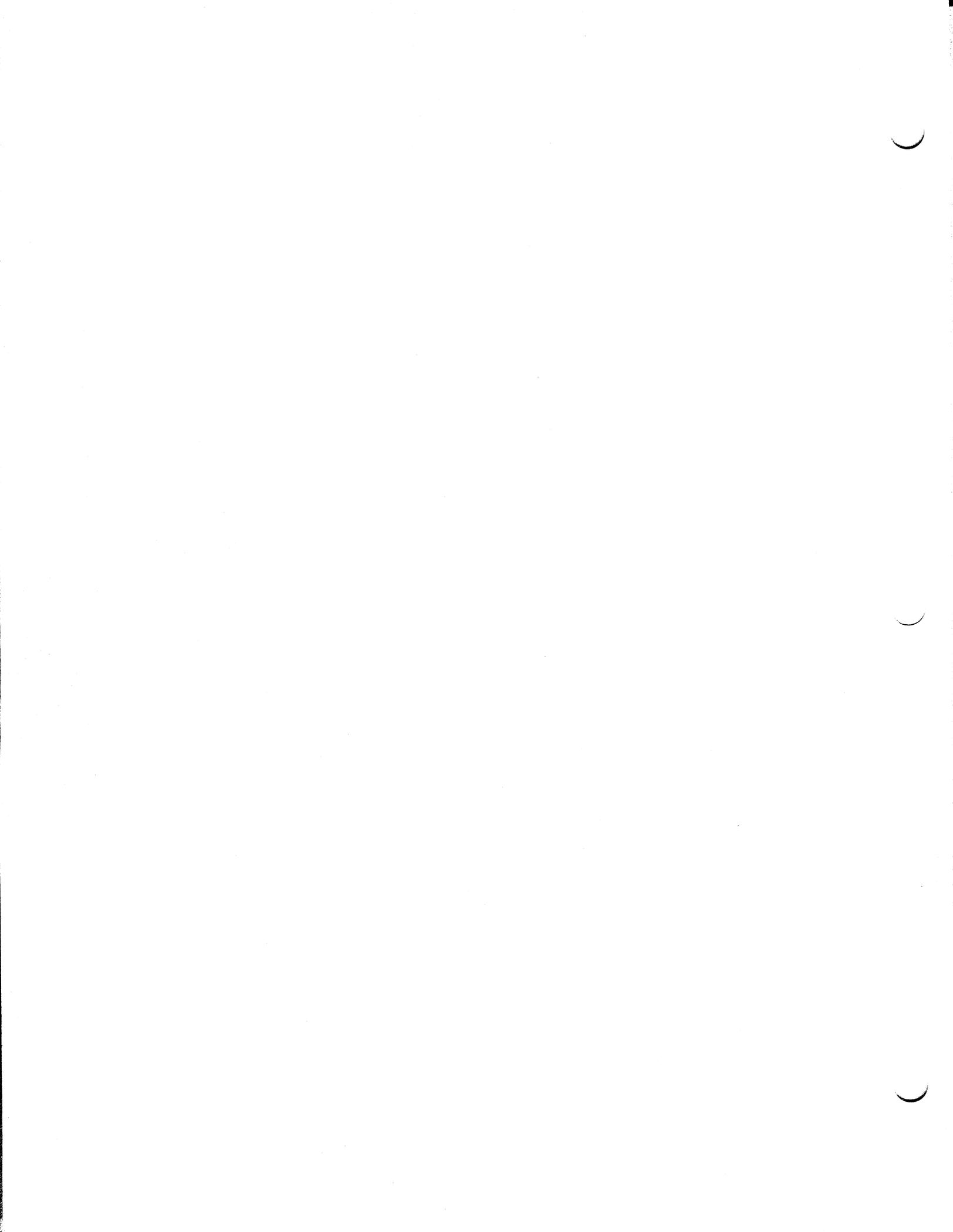
Geomatrix Consultants





Instrument Run Log

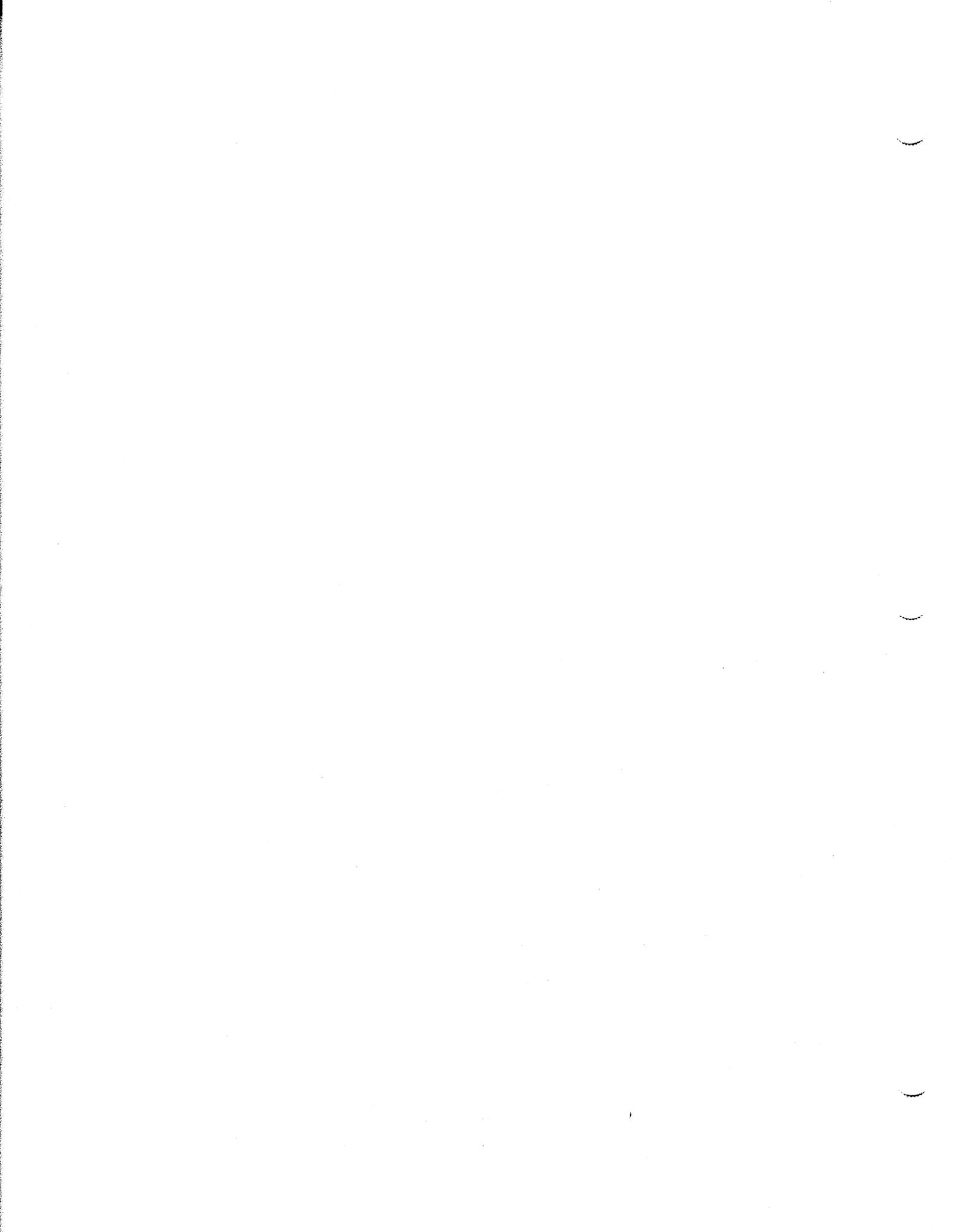
Geomatrix Consultants



Date	Subdirectory	Data File	CEL ID No.	Sample Information			Int. Std. Lot Number	Standards		Comments	Analyst
				Initial Vol(ml)/wt(g)	Final Vol(ml)	Factor		Lot Number	Conc (ppm)		
3/24/00	Mar2400.16A	17	00-03-696-1	50	50	1:1	M022500F			HR	
		18		↓	↓	1:5					
		19		↓	↓	1:10					
		20	CR3-2	100	100	1:1	M080198C				
		21	ICSA				M070799A				
		22	ICsAB				↓	B			
		23	CCV				M031000A	110 100 ppb			
		24	CCB				M012600B				
		25	Tuning Sample				M031000A	110 100 ppb			
		26	CCV								
		27	CCB								
4/4/00	Apr400.18A	1	Tuning Sample	100	100	1:1	M021500A			HR	
		2	Cal blank								
		3									
		4									
		5									
		6	Cal 10ppb				M010100Z	1100 10ppb			
		7	50ppb					1120 50ppb			
		8	100ppb					1110 100ppb			
		9	200ppb					115 200ppb			
		10	ICV								
		11	ICB				M010100Z	1110 100ppb			

Date	Subdirectory	Data File	CEL ID No.	Sample Information				Int. Std. Lot Number	Standards		Comments	Analyst
				Initial Vol(ml)/wt(g)	Final Vol(ml)	Factor	Dilution		Lot Number	Conc (ppm)		
4/4/80	AP0400-18A	12	CRF-1	100	100	1:1	1	M022500F	M040400C	1000	1000	HR
		13	ICSA						M040400A			
		14	ICSA B						M040400B			
		15	CCB									
		16	CCB									
		17	CCB									
		18	CRF-1									
		19	000404-MB-1	50	50							
		20	000404-MB-10UP									
		21	000404-LCS-1									
		22	000404-LCS-10UP									
		23	00-03-1138-1	50								
		24	00-03-1138-1MS			1:5	S					
		25	CCV	100	100	1:1	1		M040400C	110	1000000	
		26	CCB									
		27	00-03-1138-1MS	50	50							
		28	00-03-1138-1MSD									
		29	00-03-1138-1PDS									
		30	00-03-1138-1PDSU									
		31	000404-MB-1									
		32	000404-MB-10UP									
		33	00-0404-LCS-14									

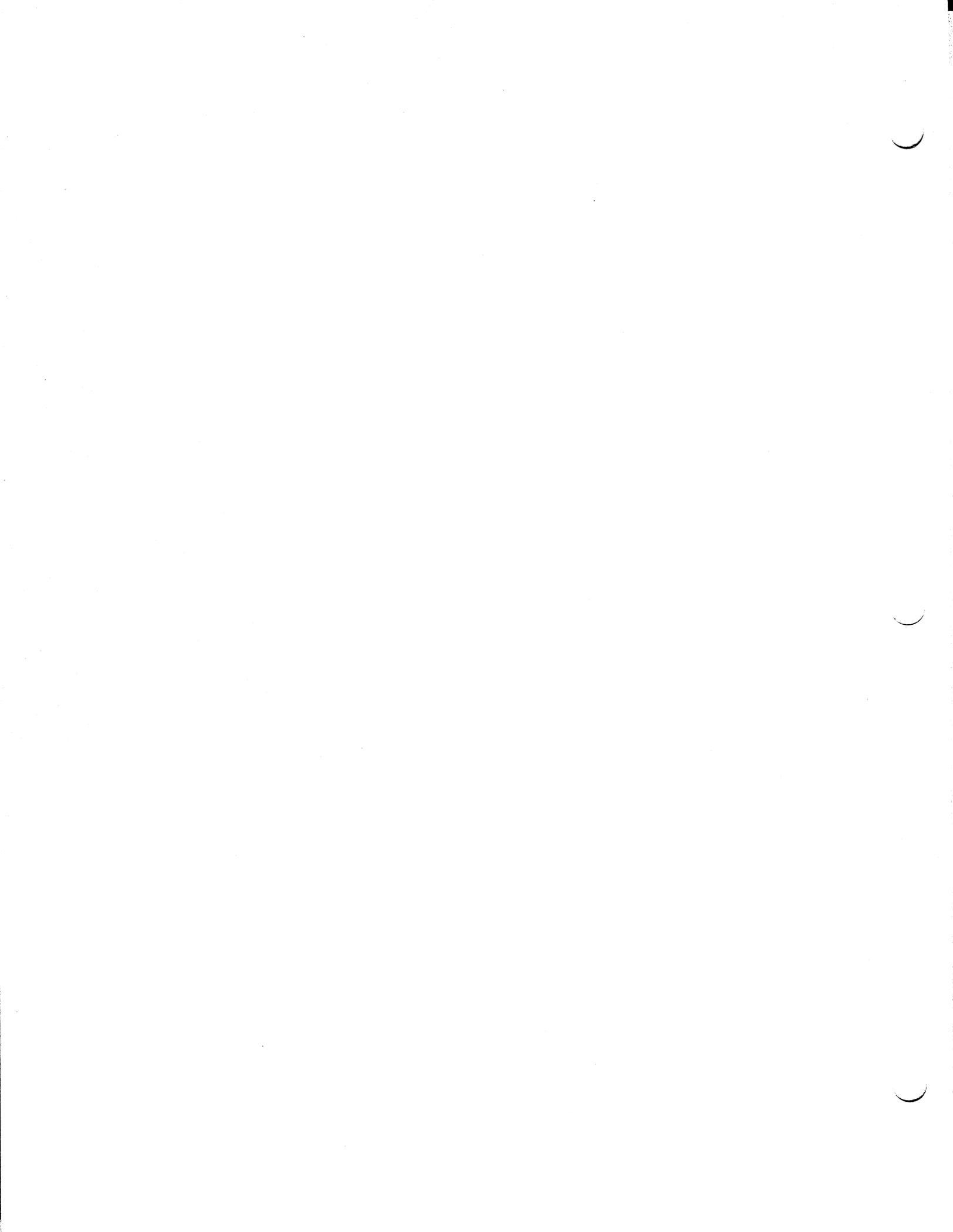
Date	Subdirectory	Data File	CEL ID No.	Sample Information				Int. Std. Lot Number	Standards		Comments	Analyst
				Initial Vol(ml)/wt(g)	Final Vol(ml)	Factor	Dilution		Lot Number	Conc (ppm)		
4/4/00	AP00400-18A	34	000404-125-40V	50	50	1:1	1	M022500F			HP	
		35	00-03-1139-12	4.0	100	1:10	10					
		36	00-03-1139-12MS									
		37	CCV	100		1:1	1	M040400C	110	100ppb		
		38	CCB									
		39	00-03-1139-12MSD	4.0		1:10	10					
		40	00-03-1139-12PDS									
		41	00-03-1139-12PDS									
		42	00-03-1139-13									
		43	00-03-1139-14									
		44	00-03-1139-14*50			1:50	50					
		45	CR3-2	100	100	1:1	1	M080198C				
		46	ICSA					M040400A				
		47	IC5AB					M040400B				
		48	CCV					M040400C	110	100ppb		
		49	CCB									
		50	Tuning Sample					M021500A				
		51	CCV					M040400C	110	100ppb		
		52	CCB									





Initial & Continuing Cal. Blanks Raw Data

Geomatrix Consultants



File : C:\HPCHEM\1\DATA\Apr0400.18A\002CALB.D\002CALB.D#
 Acquired : Apr 4 00 07:11 pm using AcqMethod M6020.M
 Operator :
 Sample Name: cal blank
 Misc Info :
 Vial Number: 3
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: CALBLK
 Dilution : 1.000000

Mass	Element	Count	n	SD	RSD[%]
6	Li	134890.80 P	3	8617.00	6.39
7	Li	6566.59 P	3	427.20	6.51
9	Be	31.67 P	3	4.16	13.15
11	B	97114.26 P	3	2709.00	2.79
23	Na	119447.50 P	3	791.90	0.66
24	Mg	8400.95 P	3	197.40	2.35
26	Mg	1363.84 P	3	28.03	2.06
27	Al	8593.70 P	3	163.50	1.90
28	Si	317687.60 P	3	4399.00	1.38
39	K	171668.70 P	3	1270.00	0.74
44	Ca	2196.41 P	3	50.34	2.29
45	Sc	169681.70 P	3	5400.00	3.18
47	Ti	46.67 P	3	13.65	29.25
50	Cr	125.67 P	3	11.02	8.77
51	V	1038.79 P	3	15.10	1.45
52	Cr	2805.99 P	3	94.42	3.36
53	Cr	46.67 P	3	8.33	17.84
54	Fe	27554.40 P	3	441.20	1.60
55	Mn	1649.24 P	3	80.82	4.90
56	Fe	659761.60 P	3	11030.00	1.67
57	Fe	2236.10 P	3	55.17	2.47
59	Co	180.01 P	3	12.49	6.94
60	Ni	129.00 P	3	8.54	6.62
61	Ni	56.33 P	3	11.59	20.57
63	Cu	469.36 P	3	25.43	5.42
65	Cu	164.34 P	3	11.59	7.05
66	Zn	1096.45 P	3	30.99	2.83
68	Zn	745.06 P	3	13.89	1.86
75	As	132.85 P	3	21.72	16.35
76	Se	24235.84 P	3	474.00	1.96
77	Se	8.33 P	3	2.08	24.98
78	Se	176.42 P	3	44.65	25.31
82	Se	48.33 P	3	7.57	15.67
83	Kr	47.67 P	3	7.51	15.75
88	Sr	352.68 P	3	29.14	8.26
89	Y	204387.80 P	3	11130.00	5.45
95	Mo	51.33 P	3	3.06	5.95
98	Mo	81.67 P	3	8.74	10.70
105	Pd	145.67 P	3	2.31	1.59
107	Ag	108.67 P	3	11.93	10.98
108	Pd	2.33 P	3	2.52	107.85
109	Ag	113.67 P	3	6.43	5.66

Calibration Blank QC Report

File : C:\HPCHEM\1\DATA\Apr0400.18A\002CALB.D\002CALB.D#
 Acquired : Apr 4 00 07:11 pm using AcqMethod M6020.M
 Operator :
 Sample Name: cal blank
 Misc Info :
 Vial Number: 3
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: CALBLK
 Dilution : 1.000000

Mass	Element	Count	n	SD	RSD[%]
111	Cd	23.00 P 3	3	2.00	8.70
114	Cd	40.14 P 3	3	11.45	28.53
115	Sn	212628.60 P 3	3	10290.00	4.84
118	Sn	228.01 P 3	3	13.45	5.90
120	Sn	314.68 P 3	3	27.43	8.72
121	Sb	165.67 P 3	3	4.04	2.44
123	Sb	136.67 P 3	3	6.03	4.41
135	Ba	46.67 P 3	3	6.51	13.94
159	Tb	277245.10 P 3	3	8789.00	3.17
165	Ho	276346.10 P 3	3	10390.00	3.76
194	Pt	4.67 P 3	3	0.58	12.37
195	Pt	4.67 P 3	3	2.08	44.61
200	Hg	32.33 P 3	3	2.08	6.44
202	Hg	35.33 P 3	3	1.53	4.32
205	Tl	268.34 P 3	3	5.51	2.05
206	Pb	151.01 P 3	3	7.81	5.17
207	Pb	138.34 P 3	3	14.05	10.15
208	Pb	673.36 P 3	3	19.40	2.88
209	Bi	165894.00 P 3	3	7133.00	4.30

File : C:\HPCHEM\1\DATA\Apr0400.18A\003CALB.D\003CALB.D#
 Acquired : Apr 4 00 07:17 pm using AcqMethod M6020.M
 Operator :
 Sample Name: cal blank
 Misc Info :
 Vial Number: 3
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: CALBLK
 Dilution : 1.000000

Mass	Element	Count	n	SD	RSD[%]
6	Li	136560.60 P	3	1549.00	1.13
7	Li	6715.08 P	3	148.90	2.22
9	Be	49.00 P	3	6.56	13.38
11	B	80615.13 P	3	924.30	1.15
23	Na	169145.10 P	3	2828.00	1.67
24	Mg	12323.87 P	3	142.40	1.16
26	Mg	1879.98 P	3	77.39	4.12
27	Al	8565.98 P	3	360.70	4.21
28	Si	326591.20 P	3	2228.00	0.68
39	K	172801.00 P	3	3254.00	1.88
44	Ca	2192.08 P	3	54.94	2.51
45	Sc	165165.00 P	3	3121.00	1.89
47	Ti	58.00 P	3	7.21	12.43
50	Cr	137.34 P	3	12.50	9.10
51	V	1048.08 P	3	39.55	3.77
52	Cr	2709.28 P	3	63.54	2.35
53	Cr	46.33 P	3	4.16	8.99
54	Fe	27048.08 P	3	326.90	1.21
55	Mn	1639.24 P	3	65.20	3.98
56	Fe	652863.70 P	3	10720.00	1.64
57	Fe	2203.42 P	3	25.52	1.16
59	Co	240.01 P	3	10.15	4.23
60	Ni	146.34 P	3	9.87	6.74
61	Ni	52.67 P	3	2.52	4.78
63	Cu	496.03 P	3	34.64	6.98
65	Cu	175.34 P	3	11.50	6.56
66	Zn	1049.44 P	3	16.77	1.60
68	Zn	764.39 P	3	27.10	3.55
75	As	111.41 P	3	12.58	11.29
76	Se	24146.22 P	3	562.70	2.33
77	Se	12.33 P	3	2.52	20.41
78	Se	184.16 P	3	62.08	33.71
82	Se	43.00 P	3	2.65	6.15
83	Kr	49.00 P	3	5.20	10.60
88	Sr	419.36 P	3	8.51	2.03
89	Y	198644.10 P	3	5049.00	2.54
95	Mo	55.67 P	3	3.06	5.49
98	Mo	86.00 P	3	18.03	20.96
105	Pd	137.01 P	3	8.19	5.98
107	Ag	123.00 P	3	10.39	8.45
108	Pd	7.00 P	3	1.73	24.74
109	Ag	135.00 P	3	7.00	5.19

Calibration Blank QC Report

File : C:\HPCHEM\1\DATA\Apr0400.18A\003CALB.D\003CALB.D#
Acquired : Apr 4 00 07:17 pm using AcqMethod M6020.M
Operator :
Sample Name: cal blank
Misc Info :
Vial Number: 3
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : -----
Sample Type: CALBLK
Dilution : 1.000000

Mass	Element	Count	n	SD	RSD[%]
111	Cd	28.00 P	3	2.65	9.45
114	Cd	55.05 P	3	3.45	6.27
115	Sn	209578.40 P	3	3086.00	1.47
118	Sn	216.34 P	3	0.58	0.27
120	Sn	326.35 P	3	15.28	4.68
121	Sb	157.67 P	3	12.90	8.18
123	Sb	121.67 P	3	6.43	5.28
135	Ba	61.00 P	3	5.29	8.67
159	Tb	271380.70 P	3	5703.00	2.10
165	Ho	268693.10 P	3	5811.00	2.16
194	Pt	3.33 P	3	1.16	34.64
195	Pt	4.00 P	3	1.00	25.00
200	Hg	26.33 P	3	2.08	7.91
202	Hg	39.00 P	3	7.55	19.36
205	Tl	292.35 P	3	13.05	4.46
206	Pb	170.01 P	3	24.76	14.56
207	Pb	133.00 P	3	8.54	6.42
208	Pb	734.37 P	3	19.50	2.66
209	Bi	161505.10 P	3	2620.00	1.62

File : C:\HPCHEM\1\DATA\Apr0400.18A\004CALB.D\004CALB.D#
 Acquired : Apr 4 00 07:23 pm using AcqMethod M6020.M
 Operator :
 Sample Name: cal blank
 Misc Info :
 Vial Number: 3
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: CALBLK
 Dilution : 1.000000

Mass	Element	Count	n	SD	RSD[%]
6	Li	135239.60 P	3	3521.00	2.60
7	Li	6438.77 P	3	118.60	1.84
9	Be	28.67 P	3	6.43	22.43
11	B	72018.17 P	3	2497.00	3.47
23	Na	124136.30 P	3	1419.00	1.14
24	Mg	7975.34 P	3	215.10	2.70
26	Mg	1222.47 P	3	62.43	5.11
27	Al	8186.01 P	3	166.60	2.04
28	Si	314964.00 P	3	6637.00	2.11
39	K	168419.80 P	3	2589.00	1.54
44	Ca	2019.68 P	3	67.12	3.32
45	Sc	161809.70 P	3	6059.00	3.74
47	Ti	42.67 P	3	3.06	7.16
50	Cr	304.53 P	3	283.20	93.01
51	V	993.15 P	3	21.42	2.16
52	Cr	2644.93 P	3	30.39	1.15
53	Cr	36.33 P	3	1.53	4.20
54	Fe	26876.78 P	3	516.40	1.92
55	Mn	1603.89 P	3	12.66	0.79
56	Fe	664995.80 P	3	13600.00	2.05
57	Fe	2200.75 P	3	69.89	3.18
59	Co	157.34 P	3	12.66	8.05
60	Ni	121.00 P	3	6.00	4.96
61	Ni	45.00 P	3	7.94	17.64
63	Cu	455.36 P	3	38.28	8.41
65	Cu	154.67 P	3	4.16	2.69
66	Zn	1051.44 P	3	40.27	3.83
68	Zn	737.06 P	3	13.23	1.79
75	As	106.87 P	3	3.80	3.56
76	Se	24240.48 P	3	583.80	2.41
77	Se	13.33 P	3	4.62	34.64
78	Se	230.60 P	3	107.80	46.75
82	Se	48.33 P	3	3.79	7.83
83	Kr	42.33 P	3	4.73	11.16
88	Sr	323.35 P	3	21.13	6.53
89	Y	195748.40 P	3	8118.00	4.15
95	Mo	39.33 P	3	3.22	8.17
98	Mo	67.00 P	3	13.08	19.52
105	Pd	147.01 P	3	14.80	10.07
107	Ag	115.34 P	3	5.69	4.93
108	Pd	6.67 P	3	4.04	60.62
109	Ag	115.67 P	3	2.31	2.00

Calibration Blank QC Report

File : C:\HPCHEM\1\DATA\Apr0400.18A\004CALB.D\004CALB.D#
Acquired : Apr 4 00 07:23 pm using AcqMethod M6020.M
Operator :
Sample Name: cal blank
Misc Info :
Vial Number: 3
CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
BkgFile : -----
Sample Type: CALBLK
Dilution : 1.000000

Mass	Element	Count	n	SD	RSD [%]
111	Cd	13.67 P 3	3	1.53	11.18
114	Cd	33.77 P 3	3	13.11	38.81
115	Sn	205731.00 P 3	3	7055.00	3.43
118	Sn	204.01 P 3	3	8.00	3.92
120	Sn	289.01 P 3	3	13.45	4.66
121	Sb	134.67 P 3	3	6.66	4.94
123	Sb	107.34 P 3	3	8.62	8.03
135	Ba	37.00 P 3	3	7.21	19.49
159	Tb	267034.40 P 3	3	9379.00	3.51
165	Ho	265172.80 P 3	3	11010.00	4.15
194	Pt	2.33 P 3	3	0.58	24.74
195	Pt	2.67 P 3	3	0.58	21.65
200	Hg	27.00 P 3	3	4.00	14.81
202	Hg	33.00 P 3	3	5.20	15.75
205	Tl	180.67 P 3	3	10.97	6.07
206	Pb	144.67 P 3	3	10.41	7.19
207	Pb	113.34 P 3	3	6.03	5.32
208	Pb	603.02 P 3	3	13.89	2.30
209	Bi	158512.30 P 3	3	5665.00	3.57

File : C:\HPCHEM\1\DATA\Apr0400.18A\005CALB.D\005CALB.D#
 Acquired : Apr 4 00 07:29 pm using AcqMethod M6020.M
 Operator :
 Sample Name: cal blank
 Misc Info :
 Vial Number: 3
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: CALBLK
 Dilution : 1.000000

Mass	Element	Count	n	SD	RSD[%]
6	Li	136334.00 P	3	2531.00	1.86
7	Li	6529.90 P	3	152.30	2.33
9	Be	22.33 P	3	4.51	20.19
11	B	62407.91 P	3	1807.00	2.89
23	Na	108180.90 P	3	1974.00	1.82
24	Mg	6929.82 P	3	106.10	1.53
26	Mg	1031.44 P	3	25.54	2.48
27	Al	8207.23 P	3	159.40	1.94
28	Si	308083.20 P	3	5534.00	1.80
39	K	169480.90 P	3	2043.00	1.21
44	Ca	1983.34 P	3	27.89	1.41
45	Sc	162769.50 P	3	2814.00	1.73
47	Ti	47.34 P	3	4.04	8.54
50	Cr	126.67 P	3	12.50	9.87
51	V	944.40 P	3	78.77	8.34
52	Cr	2694.95 P	3	66.32	2.46
53	Cr	49.00 P	3	15.13	30.88
54	Fe	26707.08 P	3	243.60	0.91
55	Mn	1553.88 P	3	46.77	3.01
56	Fe	652726.60 P	3	15090.00	2.31
57	Fe	2228.43 P	3	66.21	2.97
59	Co	126.34 P	3	8.74	6.92
60	Ni	123.34 P	3	20.31	16.46
61	Ni	50.67 P	3	7.37	14.55
63	Cu	404.69 P	3	37.17	9.18
65	Cu	143.67 P	3	20.31	14.13
66	Zn	1059.44 P	3	68.75	6.49
68	Zn	757.39 P	3	47.44	6.26
75	As	95.38 P	3	9.61	10.08
76	Se	24471.36 P	3	549.70	2.25
77	Se	13.67 P	3	2.08	15.23
78	Se	147.74 P	3	2.40	1.63
82	Se	45.00 P	3	3.61	8.01
83	Kr	41.00 P	3	3.61	8.79
88	Sr	267.68 P	3	15.01	5.61
89	Y	195901.30 P	3	7910.00	4.04
95	Mo	35.33 P	3	1.53	4.32
98	Mo	65.00 P	3	2.65	4.07
105	Pd	151.67 P	3	6.66	4.39
107	Ag	122.00 P	3	6.08	4.99
108	Pd	4.00 P	3	2.65	66.14
109	Ag	86.00 P	3	10.82	12.58

Calibration Blank QC Report

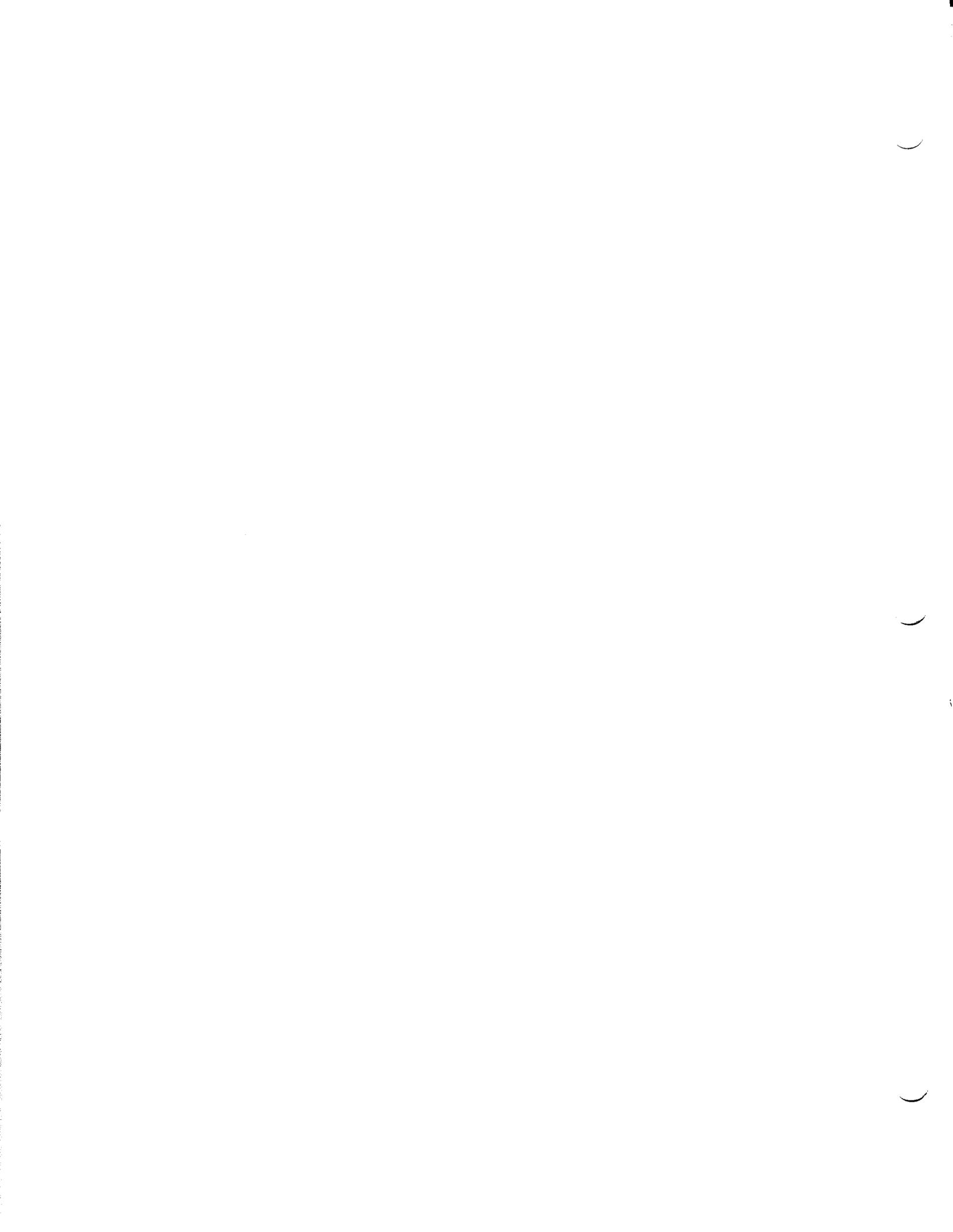
File : C:\HPCHEM\1\DATA\Apr0400.18A\005CALB.D\005CALB.D#
 Acquired : Apr 4 00 07:29 pm using AcqMethod M6020.M
 Operator :
 Sample Name: cal blank
 Misc Info :
 Vial Number: 3
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: CALBLK
 Dilution : 1.000000

Mass	Element	Count	n	SD	RSD[%]
111	Cd	17.67 P	3	0.58	3.27
114	Cd	37.08 P	3	7.86	21.20
115	Sn	206571.60 P	3	7876.00	3.81
118	Sn	184.01 P	3	12.49	6.79
120	Sn	280.01 P	3	14.00	5.00
121	Sb	121.34 P	3	11.59	9.55
123	Sb	113.34 P	3	10.97	9.68
135	Ba	39.00 P	3	1.00	2.56
159	Tb	270210.70 P	3	7290.00	2.70
165	Ho	268071.30 P	3	7552.00	2.82
194	Pt	2.67 P	3	1.53	57.28
195	Pt	2.67 P	3	2.89	108.25
200	Hg	28.00 P	3	6.56	23.42
202	Hg	34.00 P	3	4.00	11.76
205	Tl	160.67 P	3	13.65	8.50
206	Pb	138.34 P	3	18.90	13.67
207	Pb	107.34 P	3	1.16	1.08
208	Pb	574.36 P	3	40.28	7.01
209	Bi	160837.00 P	3	5065.00	3.15



Initial Calibration Raw Data

Geomatrix Consultants



File : C:\HPCHEM\1\DATA\Apr0400.18A\006CALI.D\006CALI.D#
 Acquired : Apr 4 00 07:34 pm using AcqMethod M6020.M
 Operator :
 Sample Name: cal 10 ppb
 Misc Info :
 Vial Number: 1102
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: CALIB
 Dilution : 1.000000

Mass	Element	Count	n	SD	RSD[%]
6	Li	136189.10 P	3	4267.00	3.13
7	Li	6570.56 P	3	50.15	0.76
9	Be	5970.22 P	3	72.87	1.22
11	B	59867.60 P	3	1491.00	2.49
23	Na	111562.20 P	3	8770.00	7.86
24	Mg	23495.59 P	3	344.30	1.47
26	Mg	3644.77 P	3	135.20	3.71
27	Al	28315.41 P	3	1059.00	3.74
28	Si	295169.20 P	3	8460.00	2.87
39	K	186298.40 P	3	2036.00	1.09
44	Ca	2836.34 P	3	69.44	2.45
45	Sc	162202.10 P	3	4538.00	2.80
47	Ti	2222.08 P	3	80.60	3.63
50	Cr	3229.20 P	3	86.22	2.67
51	V	30569.58 P	3	342.70	1.12
52	Cr	28078.94 P	3	345.40	1.23
53	Cr	2990.07 P	3	133.90	4.48
54	Fe	27998.63 P	3	910.90	3.25
55	Mn	32826.08 P	3	470.30	1.43
56	Fe	681020.80 P	3	19620.00	2.88
57	Fe	2598.92 P	3	48.77	1.88
59	Co	26645.74 P	3	42.85	0.16
60	Ni	5873.07 P	3	62.92	1.07
61	Ni	296.35 P	3	26.28	8.87
63	Cu	13838.47 P	3	404.10	2.92
65	Cu	6279.79 P	3	26.15	0.42
66	Zn	4150.39 P	3	27.90	0.67
68	Zn	3049.76 P	3	81.94	2.69
75	As	3313.74 P	3	141.40	4.27
76	Se	24523.54 P	3	697.30	2.84
77	Se	195.34 P	3	1.16	0.59
78	Se	798.18 P	3	77.30	9.69
82	Se	293.35 P	3	16.01	5.46
83	Kr	34.67 P	3	13.58	39.16
88	Sr	31432.30 P	3	583.00	1.85
89	Y	195209.00 P	3	5734.00	2.94
95	Mo	5790.99 P	3	81.28	1.40
98	Mo	9315.41 P	3	372.90	4.00
105	Pd	136.67 P	3	26.54	19.42
107	Ag	16248.33 P	3	314.20	1.93
108	Pd	221.68 P	3	19.09	8.61
109	Ag	15619.55 P	3	269.80	1.73
111	Cd	3383.27 P	3	74.32	2.20

File : C:\HPCHEM\1\DATA\Apr0400.18A\006CALI.D\006CALI.D#
 Acquired : Apr 4 00 07:34 pm using AcqMethod M6020.M
 Operator :
 Sample Name: cal 10 ppb
 Misc Info :
 Vial Number: 1102
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: CALIB
 Dilution : 1.000000

Mass	Element	Count	n	SD	RSD[%]
114	Cd	7782.16 P	3	212.80	2.73
115	Sn	209082.50 P	3	9054.00	4.33
118	Sn	9946.02 P	3	165.00	1.66
120	Sn	13738.60 P	3	164.30	1.20
121	Sb	10716.86 P	3	117.20	1.09
123	Sb	8108.12 P	3	40.00	0.49
135	Ba	3028.75 P	3	36.52	1.21
159	Tb	268635.70 P	3	7154.00	2.66
165	Ho	266673.20 P	3	8599.00	3.22
194	Pt	3.00 P	3	1.73	57.74
195	Pt	4.67 P	3	1.53	32.73
200	Hg	28.33 P	3	6.03	21.27
202	Hg	37.67 P	3	5.69	15.10
205	Tl	28361.25 P	3	335.40	1.18
206	Pb	9796.48 P	3	231.00	2.36
207	Pb	8043.10 P	3	96.69	1.20
208	Pb	37805.55 P	3	775.40	2.05
209	Bi	160218.20 P	3	5683.00	3.55

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	162202	Pass
89	195901	195209	Pass
115	206572	209083	Pass
159	270211	268636	Pass
165	268071	266673	Pass
209	160837	160218	Pass

Internal Standards referenced to 005CALB.D#

0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

File : C:\HPCHEM\1\DATA\Apr0400.18A\007CALI.D\007CALI.D#
 Acquired : Apr 4 00 07:40 pm using AcqMethod M6020.M
 Operator :
 Sample Name: cal 50 ppb
 Misc Info :
 Vial Number: 1103
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: CALIB
 Dilution : 1.000000

Mass	Element	Count	n	SD	RSD[%]
6	Li	141646.50 P	3	8672.00	6.12
7	Li	6762.82 P	3	386.40	5.71
9	Be	31917.63 P	3	599.70	1.88
11	B	54947.23 P	3	879.30	1.60
23	Na	224863.30 P	3	4536.00	2.02
24	Mg	104576.60 P	3	2029.00	1.94
26	Mg	15840.53 P	3	647.60	4.09
27	Al	134522.70 P	3	3375.00	2.51
28	Si	344653.90 P	3	9275.00	2.69
39	K	299150.80 P	3	2333.00	0.78
44	Ca	8754.65 P	3	218.90	2.50
45	Sc	161361.40 P	3	10440.00	6.47
47	Ti	11494.23 P	3	79.63	0.69
50	Cr	16112.67 P	3	387.20	2.40
51	V	154840.30 P	3	639.70	0.41
52	Cr	136782.90 P	3	1845.00	1.35
53	Cr	15838.34 P	3	127.30	0.80
54	Fe	39345.94 P	3	717.60	1.82
55	Mn	171216.90 P	3	2947.00	1.72
56	Fe	791842.30 P	3	17180.00	2.17
57	Fe	5349.62 P	3	151.10	2.82
59	Co	140957.10 P	3	2068.00	1.47
60	Ni	31054.93 P	3	204.90	0.66
61	Ni	1402.18 P	3	40.72	2.90
63	Cu	70805.77 P	3	2088.00	2.95
65	Cu	32866.88 P	3	656.50	2.00
66	Zn	17775.19 P	3	276.90	1.56
68	Zn	13377.82 P	3	115.40	0.86
75	As	16516.74 P	3	159.30	0.96
76	Se	25447.98 P	3	512.60	2.01
77	Se	1053.44 P	3	18.77	1.78
78	Se	3233.08 P	3	138.90	4.30
82	Se	1290.82 P	3	71.18	5.51
83	Kr	37.00 P	3	7.55	20.41
88	Sr	165566.40 P	3	4620.00	2.79
89	Y	197599.50 P	3	15040.00	7.61
95	Mo	30503.57 P	3	650.90	2.13
98	Mo	49439.50 P	3	1024.00	2.07
105	Pd	149.01 P	3	13.23	8.88
107	Ag	87155.88 P	3	2044.00	2.35
108	Pd	1170.79 P	3	33.61	2.87
109	Ag	83597.68 P	3	390.30	0.47
111	Cd	17865.19 P	3	53.86	0.30

File : C:\HPCHEM\1\DATA\Apr0400.18A\007CALI.D\007CALI.D#
 Acquired : Apr 4 00 07:40 pm using AcqMethod M6020.M
 Operator :
 Sample Name: cal 50 ppb
 Misc Info :
 Vial Number: 1103
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: CALIB
 Dilution : 1.000000

Mass	Element	Count	n	SD	RSD[%]
114	Cd	40619.16 P	3	747.00	1.84
115	Sn	208316.20 P	3	16070.00	7.71
118	Sn	51919.07 P	3	962.50	1.85
120	Sn	71909.05 P	3	1077.00	1.50
121	Sb	56739.46 P	3	752.90	1.33
123	Sb	43322.32 P	3	528.70	1.22
135	Ba	15817.59 P	3	349.00	2.21
159	Tb	270879.60 P	3	17010.00	6.28
165	Ho	269219.50 P	3	16020.00	5.95
194	Pt	3.67 P	3	2.52	68.63
195	Pt	2.33 P	3	0.58	24.74
200	Hg	20.00 P	3	3.61	18.03
202	Hg	50.33 P	3	5.51	10.94
205	Tl	148790.00 P	3	3462.00	2.33
206	Pb	50819.10 P	3	1133.00	2.23
207	Pb	41565.08 P	3	574.80	1.38
208	Pb	196717.40 P	3	3048.00	1.55
209	Bi	160739.60 P	3	9072.00	5.64

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	161361	Pass
89	195901	197600	Pass
115	206572	208316	Pass
159	270211	270880	Pass
165	268071	269220	Pass
209	160837	160740	Pass

Internal Standards referenced to 005CALB.D#

0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

File : C:\HPCHEM\1\DATA\Apr0400.18A\008CALI.D\008CALI.D#
 Acquired : Apr 4 00 07:46 pm using AcqMethod M6020.M
 Operator :
 Sample Name: cal 100 ppb
 Misc Info :
 Vial Number: 1104
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: CALIB
 Dilution : 1.000000

Mass	Element	Count	n	SD	RSD[%]
6	Li	145573.10 P	3	7718.00	5.30
7	Li	6918.38 P	3	425.50	6.15
9	Be	63038.30 P	3	469.40	0.74
11	B	53487.01 P	3	2187.00	4.09
23	Na	447957.70 P	3	3471.00	0.77
24	Mg	216462.70 P	3	1652.00	0.76
26	Mg	32909.43 P	3	785.60	2.39
27	Al	265784.10 P	3	7693.00	2.89
28	Si	414447.30 P	3	18000.00	4.34
39	K	441502.20 P	3	7434.00	1.68
44	Ca	16751.98 P	3	174.50	1.04
45	Sc	164647.60 P	3	10290.00	6.25
47	Ti	23143.56 P	3	374.20	1.62
50	Cr	32671.01 P	3	1109.00	3.40
51	V	314592.40 P	3	8006.00	2.55
52	Cr	275432.50 P	3	3473.00	1.26
53	Cr	31557.48 P	3	310.00	0.98
54	Fe	51171.11 P	3	718.40	1.40
55	Mn	341681.70 P	3	6666.00	1.95
56	Fe	934642.80 P	3	32370.00	3.46
57	Fe	8684.21 P	3	77.35	0.89
59	Co	284932.30 P	3	4221.00	1.48
60	Ni	62001.92 P	3	1080.00	1.74
61	Ni	2786.65 P	3	53.05	1.90
63	Cu	144267.60 P	3	3697.00	2.56
65	Cu	66608.20 P	3	1425.00	2.14
66	Zn	34567.38 P	3	1083.00	3.13
68	Zn	26316.05 P	3	468.40	1.78
75	As	33408.93 P	3	846.70	2.53
76	Se	26448.25 P	3	316.80	1.20
77	Se	2040.02 P	3	85.57	4.19
78	Se	6331.66 P	3	261.40	4.13
82	Se	2569.89 P	3	112.10	4.36
83	Kr	54.67 P	3	4.51	8.25
88	Sr	340939.10 P	3	9080.00	2.66
89	Y	202039.80 P	3	16210.00	8.02
95	Mo	60969.01 P	3	2091.00	3.43
98	Mo	99712.40 P	3	1826.00	1.83
105	Pd	178.01 P	3	9.54	5.36
107	Ag	177454.30 P	3	4484.00	2.53
108	Pd	2376.81 P	3	103.40	4.35
109	Ag	168793.70 P	3	1704.00	1.01
111	Cd	36052.53 P	3	288.20	0.80

File : C:\HPCHEM\1\DATA\Apr0400.18A\008CALI.D\008CALI.D#
 Acquired : Apr 4 00 07:46 pm using AcqMethod M6020.M
 Operator :
 Sample Name: cal 100 ppb
 Misc Info :
 Vial Number: 1104
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: CALIB
 Dilution : 1.000000

Mass	Element	Count	n	SD	RSD[%]
114	Cd	81810.73 P	3	1608.00	1.97
115	Sn	213043.70 P	3	15270.00	7.17
118	Sn	105857.90 P	3	1818.00	1.72
120	Sn	144982.30 P	3	2924.00	2.02
121	Sb	114813.00 P	3	2028.00	1.77
123	Sb	87399.37 P	3	2016.00	2.31
135	Ba	31578.01 P	3	633.50	2.01
159	Tb	274441.40 P	3	17040.00	6.21
165	Ho	271855.60 P	3	17610.00	6.48
194	Pt	1.33 P	3	0.58	43.30
195	Pt	2.67 P	3	2.08	78.06
200	Hg	19.00 P	3	1.73	9.12
202	Hg	65.67 P	3	4.16	6.34
205	Tl	300242.70 P	3	5394.00	1.80
206	Pb	103101.60 P	3	2331.00	2.26
207	Pb	84846.71 P	3	1351.00	1.59
208	Pb	398907.00 P	3	6514.00	1.63
209	Bi	163880.70 P	3	9672.00	5.90

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	164648	Pass
89	195901	202040	Pass
115	206572	213044	Pass
159	270211	274441	Pass
165	268071	271856	Pass
209	160837	163881	Pass

Internal Standards referenced to 005CALB.D#

0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

Calibration QC Report

File : C:\HPCHEM\1\DATA\Apr0400.18A\009CALI.D\009CALI.D#
 Acquired : Apr 4 00 07:51 pm using AcqMethod M6020.M
 Operator :
 Sample Name: cal 200 ppb
 Misc Info :
 Vial Number: 1105
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: CALIB
 Dilution : 1.000000

Mass	Element	Count	n	SD	RSD[%]
6	Li	148735.00 P	3	4491.00	3.02
7	Li	7233.69 P	3	242.40	3.35
9	Be	132179.10 P	3	1405.00	1.06
11	B	52336.81 P	3	2794.00	5.34
23	Na	749891.50 P	3	19840.00	2.65
24	Mg	437435.30 P	3	13660.00	3.12
26	Mg	65553.02 P	3	1054.00	1.61
27	Al	551808.30 P	3	6623.00	1.20
28	Si	578320.20 P	3	32140.00	5.56
39	K	746507.70 P	3	12420.00	1.66
44	Ca	33224.46 P	3	272.40	0.82
45	Sc	176440.40 P	3	3897.00	2.21
47	Ti	47763.43 P	3	662.60	1.39
50	Cr	67901.34 P	3	557.10	0.82
51	V	645848.30 P	3	15890.00	2.46
52	Cr	559949.30 P	3	9693.00	1.73
53	Cr	65375.08 P	3	263.30	0.40
54	Fe	77792.24 P	3	887.00	1.14
55	Mn	714493.70 P	3	10090.00	1.41
56	Fe	1242776.00 P	3	27710.00	2.23
57	Fe	15714.37 P	3	197.90	1.26
59	Co	579383.20 P	3	10040.00	1.73
60	Ni	127878.90 P	3	3091.00	2.42
61	Ni	5618.86 P	3	141.10	2.51
63	Cu	291840.80 P	3	3272.00	1.12
65	Cu	135703.00 P	3	2701.00	1.99
66	Zn	71646.35 P	3	1003.00	1.40
68	Zn	53837.38 P	3	1075.00	2.00
75	As	68401.82 P	3	1273.00	1.86
76	Se	28717.03 P	3	437.40	1.52
77	Se	4282.49 P	3	211.10	4.93
78	Se	12502.26 P	3	361.00	2.89
82	Se	5301.92 P	3	181.50	3.42
83	Kr	49.00 P	3	1.00	2.04
88	Sr	699315.80 P	3	25020.00	3.58
89	Y	216394.50 P	3	9321.00	4.31
95	Mo	126900.40 P	3	1964.00	1.55
98	Mo	206581.90 P	3	1666.00	0.81
105	Pd	235.34 P	3	22.19	9.43
107	Ag	366784.70 P	3	10500.00	2.86
108	Pd	4873.90 P	3	109.70	2.25
109	Ag	353600.10 P	3	4713.00	1.33
111	Cd	76382.72 P	3	1487.00	1.95

Calibration QC Report

File : C:\HPCHEM\1\DATA\Apr0400.18A\009CALI.D\009CALI.D#
 Acquired : Apr 4 00 07:51 pm using AcqMethod M6020.M
 Operator :
 Sample Name: cal 200 ppb
 Misc Info :
 Vial Number: 1105
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: CALIB
 Dilution : 1.000000

Mass	Element	Count	n	SD	RSD[%]
114	Cd	169432.50 P	3	2460.00	1.45
115	Sn	226687.10 P	3	5401.00	2.38
118	Sn	219478.70 P	3	2868.00	1.31
120	Sn	302963.70 P	3	6276.00	2.07
121	Sb	239894.20 P	3	4573.00	1.91
123	Sb	183172.10 P	3	2408.00	1.31
135	Ba	65520.47 P	3	1084.00	1.66
159	Tb	297348.20 P	3	7616.00	2.56
165	Ho	297559.00 P	3	9514.00	3.20
194	Pt	4.67 P	3	1.53	32.73
195	Pt	2.00 P	3	2.00	100.00
200	Hg	19.67 P	3	4.73	24.03
202	Hg	111.67 P	3	4.73	4.23
205	Tl	630975.70 P	3	3091.00	0.49
206	Pb	217186.10 P	3	3197.00	1.47
207	Pb	176964.00 P	3	2682.00	1.52
208	Pb	837307.20 P	3	12990.00	1.55
209	Bi	181210.90 P	3	7303.00	4.03

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	176440	Pass
89	195901	216395	Pass
115	206572	226687	Pass
159	270211	297348	Pass
165	268071	297559	Pass
209	160837	181211	Pass

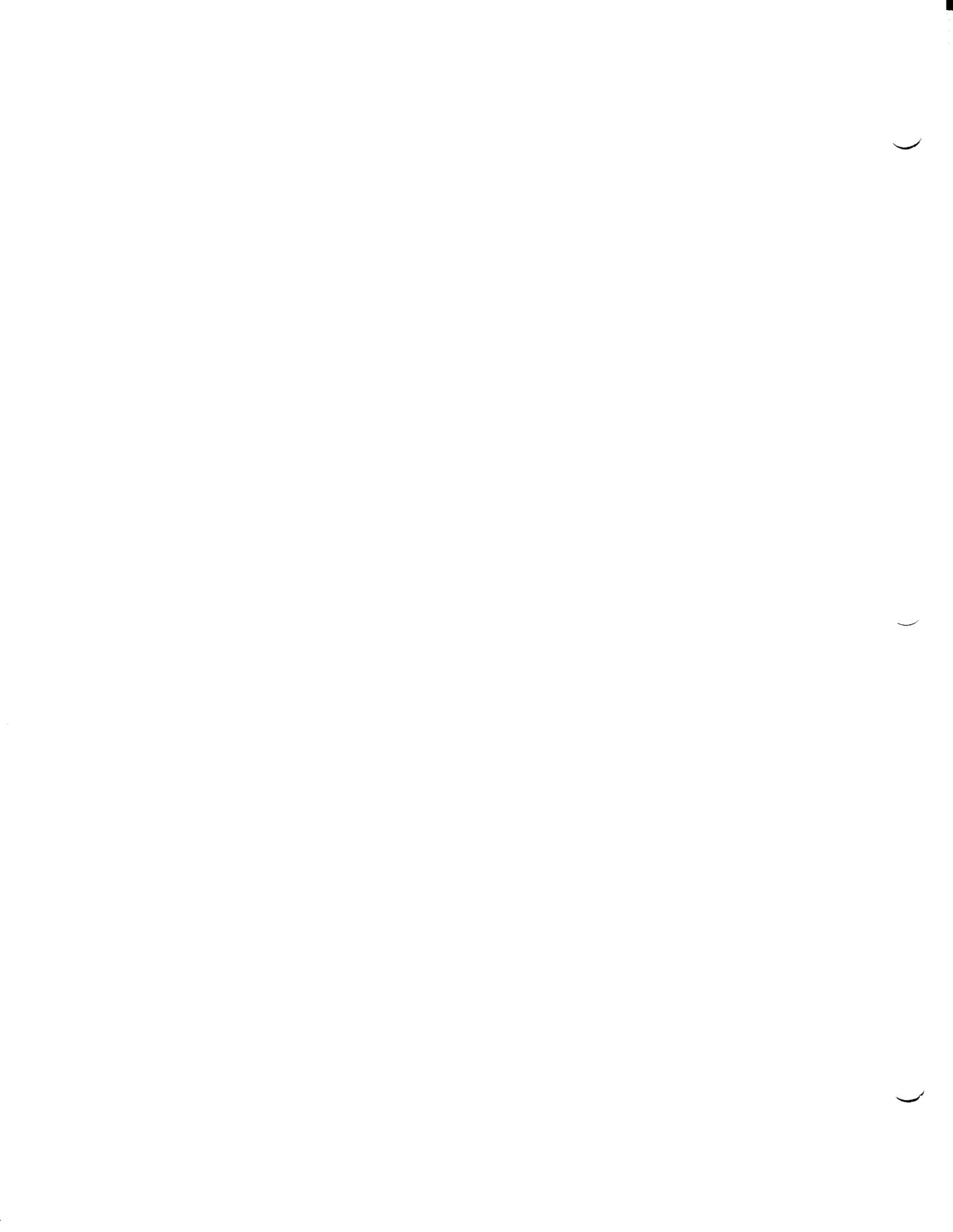
Internal Standards referenced to 005CALB.D#

0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)



Initial Calibration Verification Raw Data

Geomatrix Consultants



File : C:\HPCHEM\1\DATA\Apr0400.18A\010ICV_.D\010ICV_.D#
 Acquired : Apr 4 00 07:57 pm using AcqMethod M6020.M
 Operator :
 Sample Name: ICV 100 ppb
 Misc Info :
 Vial Number: 1106
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: ICV
 Dilution : 1.000000

ICV Mix #1

Element	Concentration	Expected	QC Range	Flag
Be 9	95.720 ppb	100.00	90.00-110.00	Pass
B 11	-459.200 ppb	100.00	90.00-110.00	*Fail*
Na 23	87.600 ppb	100.00	90.00-110.00	*Fail*
Mg 24	94.980 ppb	100.00	90.00-110.00	Pass
Al 27	90.550 ppb	100.00	90.00-110.00	Pass
K 39	968.500 ppb	100.00	90.00-110.00	*Fail*
Ca 44	99.000 ppb	100.00	90.00-110.00	Pass
Ti 47	93.020 ppb	100.00	90.00-110.00	Pass
V 51	97.430 ppb	100.00	90.00-110.00	Pass
Cr 52	95.770 ppb	100.00	90.00-110.00	Pass
Fe 54	82.480 ppb	100.00	90.00-110.00	*Fail*
Mn 55	98.470 ppb	100.00	90.00-110.00	Pass
Fe 57	90.810 ppb	100.00	90.00-110.00	Pass
Co 59	97.030 ppb	100.00	90.00-110.00	Pass
Ni 60	96.680 ppb	100.00	90.00-110.00	Pass
Cu 65	99.900 ppb	100.00	90.00-110.00	Pass
Zn 68	100.500 ppb	100.00	90.00-110.00	Pass
As 75	98.200 ppb	100.00	90.00-110.00	Pass
Se 78	97.970 ppb	100.00	90.00-110.00	Pass
Se 82	96.160 ppb	100.00	90.00-110.00	Pass
Sr 88	99.240 ppb	100.00	90.00-110.00	Pass
Mo 95	98.400 ppb	100.00	90.00-110.00	Pass
Ag 107	48.720 ppb	50.00	45.00-55.00	Pass
Cd 114	95.750 ppb	100.00	90.00-110.00	Pass
Sn 120	97.290 ppb	100.00	90.00-110.00	Pass
Sb 123	94.240 ppb	100.00	90.00-110.00	Pass
Ba 135	96.830 ppb	100.00	90.00-110.00	Pass
Tl 205	101.400 ppb	100.00	90.00-110.00	Pass
Pb 208	101.400 ppb	100.00	90.00-110.00	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	178408	Pass
89	195901	216389	Pass
115	206572	227219	Pass
159	270211	296750	Pass
165	268071	296954	Pass
209	160837	176182	Pass

Internal Standards referenced to 005CALB.D#

4 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!

File : C:\HPCHEM\1\DATA\Apr0400.18A\011CCB_.D\011CCB_.D#
 Acquired : Apr 4 00 08:03 pm using AcqMethod M6020.M
 Operator :
 Sample Name: ICB (CCB type used)
 Misc Info :
 Vial Number: 3
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: CCB
 Dilution : 1.000000

Element	Concentration	CRDL	Limit	Flag
Be 9	0.147 ppb		1.00	Pass
B 11	205.400 ppb		1.00	*Fail*
Na 23	-6.845 ppb		1.00	*Fail*
Mg 24	-0.300 ppb		1.00	Pass
Al 27	0.126 ppb		1.00	Pass
K 39	-0.209 ppb		1.00	Pass
Ca 44	-0.831 ppb		1.00	Pass
Ti 47	0.131 ppb		1.00	Pass
V 51	0.160 ppb		1.00	Pass
Cr 52	0.148 ppb		1.00	Pass
Fe 54	-4.384 ppb		1.00	*Fail*
Mn 55	0.167 ppb		1.00	Pass
Fe 57	-0.197 ppb		1.00	Pass
Co 59	0.169 ppb		1.00	Pass
Ni 60	0.150 ppb		1.00	Pass
Cu 65	0.137 ppb		1.00	Pass
Zn 68	0.009 ppb		1.00	Pass
As 75	0.208 ppb		1.00	Pass
Se 78	1.612 ppb*		1.00	*Fail*
Se 82	0.238 ppb		1.00	Pass
Sr 88	0.155 ppb		1.00	Pass
Mo 95	0.235 ppb		1.00	Pass
Ag 107	0.194 ppb		1.00	Pass
Cd 114	0.141 ppb		1.00	Pass
Sn 120	0.184 ppb		1.00	Pass
Sb 123	0.448 ppb		1.00	Pass
Ba 135	0.170 ppb		1.00	Pass
Tl 205	0.166 ppb		1.00	Pass
Pb 208	0.160 ppb		1.00	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	163445	Pass
89	195901	202650	Pass
115	206572	212602	Pass
159	270211	276531	Pass
165	268071	275336	Pass
209	160837	163944	Pass

Internal Standards referenced to 005CALB.D#

4 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
 0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)



ICP Interference Check Sample Raw Data

Geomatrix Consultants



File : C:\HPCHEM\1\DATA\Apr0400.18A\014ICSB.D\014ICSB.D#
 Acquired : Apr 4 00 08:21 pm using AcqMethod M6020.M
 Operator :
 Sample Name: ICSAB
 Misc Info :
 Vial Number: 1204
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: ICS_AB
 Dilution : 1.000000

Should be 2.00
 ↑

Element	Concentration	Expected	CRDL Range Conc	%Range Conc	Flag
Be 9	-0.007 ppb	0.00	-1.00-1.00	0-0	Pass
B 11	382.700 ppb	0.00	-1.00-1.00	0-0	*Fail*
Na 23	21450.000 ppb	250.00	249.00-251.00	250-250	*Fail*
Mg 24	8249.000 ppb	100.00	99.00-101.00	100-100	*Fail*
Al 27	8084.000 ppb	100.00	99.00-101.00	100-100	*Fail*
K 39	9735.000 ppb	100.00	99.00-101.00	100-100	*Fail*
Ca 44	14920.000 ppb	300.00	299.00-301.00	300-300	*Fail*
Ti 47	196.200 ppb	2.00	1.00-3.00	2-2	*Fail*
V 51	19.040 ppb	20.00	19.00-21.00	20-20	Pass
Cr 52	18.930 ppb	20.00	19.00-21.00	20-20	*Fail*
Fe 54	16280.000 ppb	250.00	249.00-251.00	250-250	*Fail*
Mn 55	19.410 ppb	20.00	19.00-21.00	20-20	Pass
Fe 57	23540.000 ppb	250.00	249.00-251.00	250-250	*Fail*
Co 59	18.160 ppb	20.00	19.00-21.00	20-20	*Fail*
Ni 60	17.910 ppb	20.00	19.00-21.00	20-20	*Fail*
Cu 65	20.050 ppb	20.00	19.00-21.00	20-20	Pass
Zn 68	10.230 ppb	10.00	9.00-11.00	10-10	Pass
As 75	9.939 ppb	10.00	9.00-11.00	10-10	Pass
Se 78	9.474 ppb	10.00	9.00-11.00	10-10	Pass
Se 82	9.761 ppb	10.00	9.00-11.00	10-10	Pass
Sr 88	1.284 ppb	0.00	-1.00-1.00	0-0	*Fail*
Mo 95	197.900 ppb	2.00	1.00-3.00	2-2	*Fail*
Ag 107	4.935 ppb	5.00	4.00-6.00	5-5	Pass
Cd 114	9.332 ppb	10.00	9.00-11.00	10-10	Pass
Sn 120	1.301 ppb	0.00	-1.00-1.00	0-0	*Fail*
Sb 123	0.837 ppb	0.00	-1.00-1.00	0-0	Pass
Ba 135	0.038 ppb	0.00	-1.00-1.00	0-0	Pass
Tl 205	-0.013 ppb	0.00	-1.00-1.00	0-0	Pass
Pb 208	0.260 ppb	0.00	-1.00-1.00	0-0	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	214260	Pass
89	195901	235195	Pass
115	206572	224915	Pass
159	270211	324710	Pass
165	268071	326543	Pass
209	160837	194977	Pass

Internal Standards referenced to 005CALB.D#

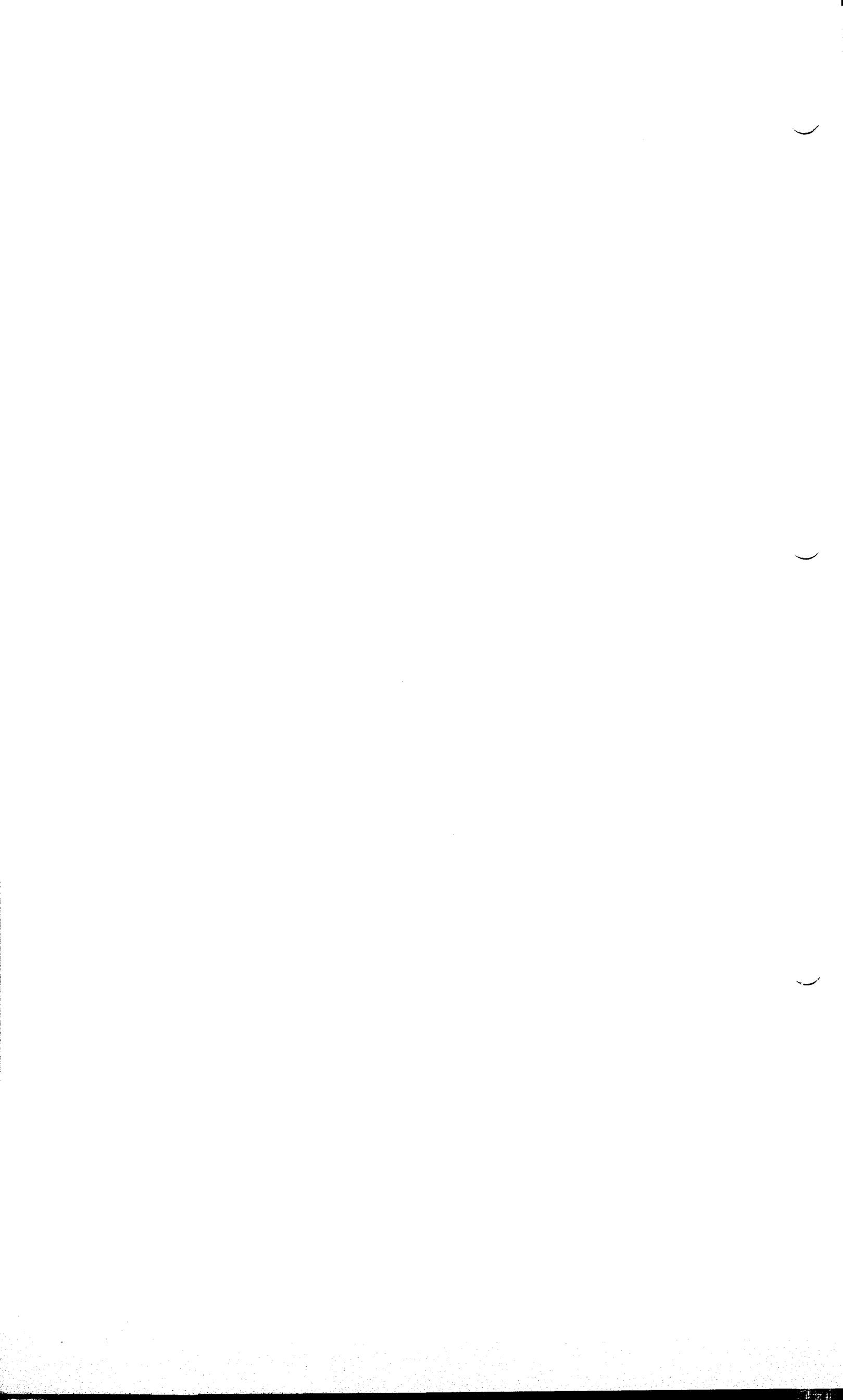
15 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
 0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)





Method Blank QC Data

Geomatrix Consultants



File : C:\HPCHEM\1\DATA\Apr0400.18A\019SMPL.D\019SMPL.D#
 Acquired : Apr 4 00 08:51 pm using AcqMethod M6020.M
 Operator :
 Sample Name: 000404-MB-1
 Misc Info : 50/50
 Vial Number: 2101
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: -----
 Dilution : 1.000000

Element	Concentration	Cal Conc	LRS Conc	Flag
Be 9	-0.028 ppb	200.000	1000	Pass
B 11	378.700 ppb	200.000	1000	>Cal std
Na 23	-18.710 ppb	200.000	5000	Pass
Mg 24	-0.527 ppb	200.000	5000	Pass
Al 27	-0.765 ppb	200.000	5000	Pass
K 39	-8.557 ppb	200.000	5000	Pass
Ca 44	-5.054 ppb	200.000	5000	Pass
Ti 47	-0.087 ppb	200.000	5000	Pass
V 51	-0.054 ppb	200.000	5000	Pass
Cr 52	-0.149 ppb	200.000	5000	Pass
Fe 54	-15.950 ppb	200.000	5000	Pass
Mn 55	-0.257 ppb	200.000	5000	Pass
Fe 57	-1.709 ppb	200.000	5000	Pass
Co 59	-0.029 ppb	200.000	5000	Pass
Ni 60	-0.153 ppb	200.000	5000	Pass
Cu 65	-0.168 ppb	200.000	5000	Pass
Zn 68	-0.988 ppb	200.000	5000	Pass
As 75	0.016 ppb	200.000	5000	Pass
Se 78	0.609 ppb	200.000	5000	Pass
Se 82	-0.123 ppb	200.000	5000	Pass
Sr 88	-0.058 ppb	200.000	5000	Pass
Mo 95	0.017 ppb	200.000	5000	Pass
Ag 107	-0.047 ppb	200.000	5000	Pass
Cd 114	-0.029 ppb	200.000	5000	Pass
Sn 120	-0.138 ppb	200.000	5000	Pass
Sb 123	-0.097 ppb	200.000	5000	Pass
Ba 135	0.231 ppb	200.000	5000	Pass
Tl 205	-0.018 ppb	200.000	5000	Pass
Pb 208	-0.087 ppb	200.000	5000	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	182180	Pass
89	195901	224264	Pass
115	206572	233365	Pass
159	270211	301644	Pass
165	268071	298677	Pass
209	160837	172425	Pass

Internal Standards referenced to 005CALB.D#

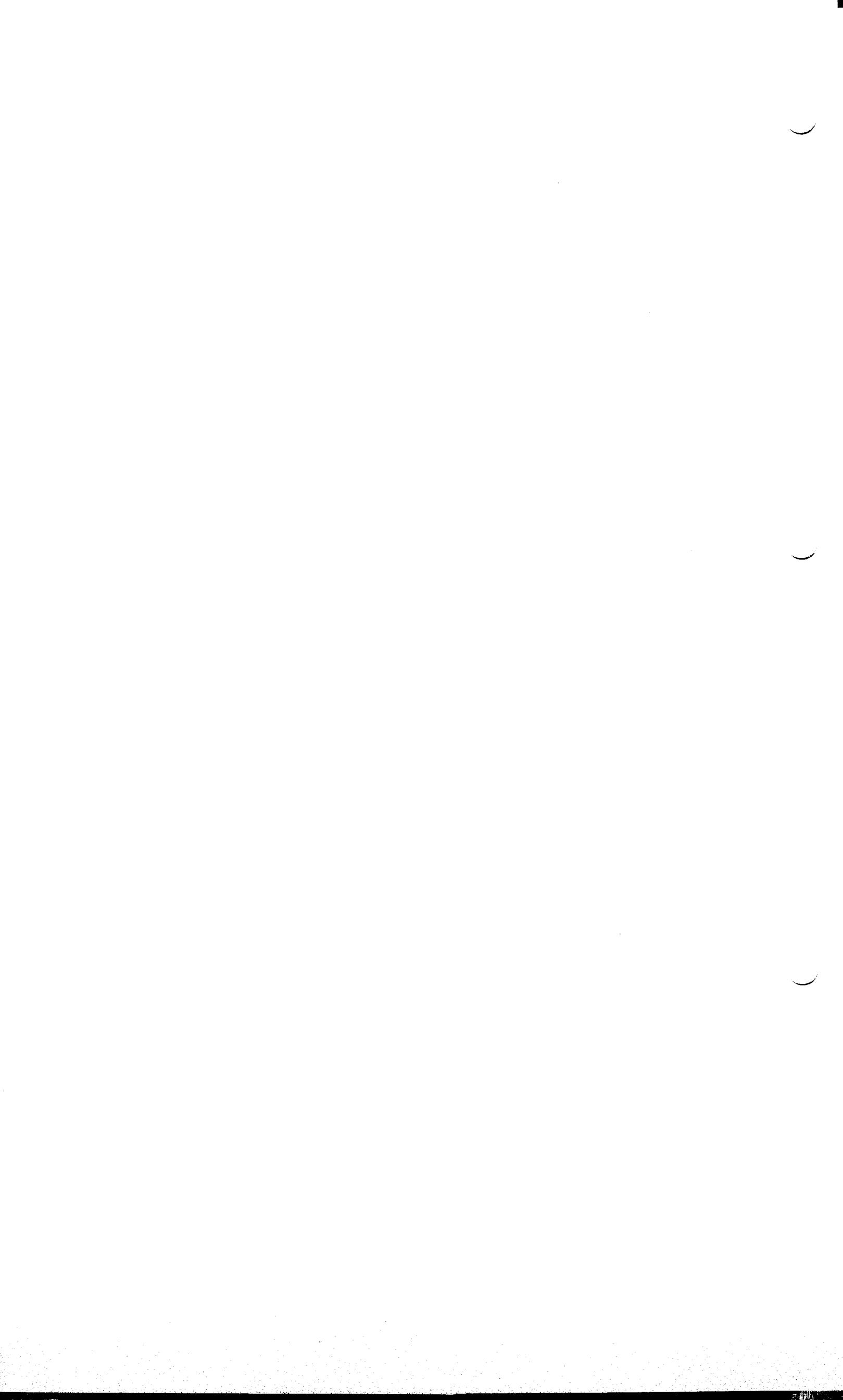
1 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
 0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)





LCS/LCSD QC Data

Geomatrix Consultants



File : C:\HPCHEM\1\DATA\Apr0400.18A\021SMPL.D\021SMPL.D#
 Acquired : Apr 4 00 09:03 pm using AcqMethod M6020.M
 Operator :
 Sample Name: 000404-LCS-1
 Misc Info : 50/50
 Vial Number: 2103
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: -----
 Dilution : 1.000000

Element	Concentration	Cal Conc	LRS Conc	Flag
Be 9	103.000 ppb	200.000	1000	Pass
B 11	-317.300 ppb	200.000	1000	Pass
Na 23	93.420 ppb	200.000	5000	Pass
Mg 24	102.500 ppb	200.000	5000	Pass
Al 27	99.980 ppb	200.000	5000	Pass
K 39	1044.000 ppb	200.000	5000	>Cal std
Ca 44	109.300 ppb	200.000	5000	Pass
Ti 47	100.700 ppb	200.000	5000	Pass
V 51	105.000 ppb	200.000	5000	Pass
Cr 52	104.300 ppb	200.000	5000	Pass
Fe 54	90.570 ppb	200.000	5000	Pass
Mn 55	105.200 ppb	200.000	5000	Pass
Fe 57	103.700 ppb	200.000	5000	Pass
Co 59	105.800 ppb	200.000	5000	Pass
Ni 60	104.500 ppb	200.000	5000	Pass
Cu 65	104.600 ppb	200.000	5000	Pass
Zn 68	104.600 ppb	200.000	5000	Pass
As 75	103.800 ppb	200.000	5000	Pass
Se 78	102.400 ppb	200.000	5000	Pass
Se 82	104.600 ppb	200.000	5000	Pass
Sr 88	105.700 ppb	200.000	5000	Pass
Mo 95	102.800 ppb	200.000	5000	Pass
Ag 107	50.460 ppb	200.000	5000	Pass
Cd 114	101.600 ppb	200.000	5000	Pass
Sn 120	104.100 ppb	200.000	5000	Pass
Sb 123	100.400 ppb	200.000	5000	Pass
Ba 135	106.000 ppb	200.000	5000	Pass
Tl 205	107.600 ppb	200.000	5000	Pass
Pb 208	106.600 ppb	200.000	5000	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	178599	Pass
89	195901	223040	Pass
115	206572	234707	Pass
159	270211	301276	Pass
165	268071	298170	Pass
209	160837	177706	Pass

Internal Standards referenced to 005CALB.D#

1 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
 0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

File : C:\HPCHEM\1\DATA\Apr0400.18A\022SMPL.D\022SMPL.D#
 Acquired : Apr 4 00 09:09 pm using AcqMethod M6020.M
 Operator :
 Sample Name: 000404-LCS-1DUP
 Misc Info : 50/50
 Vial Number: 2104
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: -----
 Dilution : 1.000000

Element	Concentration	Cal Conc	LRS Conc	Flag
Be 9	99.990 ppb	200.000	1000	Pass
B 11	-268.800 ppb	200.000	1000	Pass
Na 23	221.400 ppb	200.000	5000	>Cal std
Mg 24	115.000 ppb	200.000	5000	Pass
Al 27	96.000 ppb	200.000	5000	Pass
K 39	1034.000 ppb	200.000	5000	>Cal std
Ca 44	107.500 ppb	200.000	5000	Pass
Ti 47	98.380 ppb	200.000	5000	Pass
V 51	103.100 ppb	200.000	5000	Pass
Cr 52	101.900 ppb	200.000	5000	Pass
Fe 54	83.310 ppb	200.000	5000	Pass
Mn 55	104.900 ppb	200.000	5000	Pass
Fe 57	99.440 ppb	200.000	5000	Pass
Co 59	103.100 ppb	200.000	5000	Pass
Ni 60	102.400 ppb	200.000	5000	Pass
Cu 65	105.000 ppb	200.000	5000	Pass
Zn 68	105.800 ppb	200.000	5000	Pass
As 75	103.400 ppb	200.000	5000	Pass
Se 78	105.200 ppb	200.000	5000	Pass
Se 82	103.900 ppb	200.000	5000	Pass
Sr 88	105.900 ppb	200.000	5000	Pass
Mo 95	102.400 ppb	200.000	5000	Pass
Ag 107	50.920 ppb	200.000	5000	Pass
Cd 114	101.000 ppb	200.000	5000	Pass
Sn 120	101.800 ppb	200.000	5000	Pass
Sb 123	99.190 ppb	200.000	5000	Pass
Ba 135	104.400 ppb	200.000	5000	Pass
Tl 205	107.500 ppb	200.000	5000	Pass
Pb 208	106.000 ppb	200.000	5000	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	181840	Pass
89	195901	222399	Pass
115	206572	233889	Pass
159	270211	305586	Pass
165	268071	299985	Pass
209	160837	179836	Pass

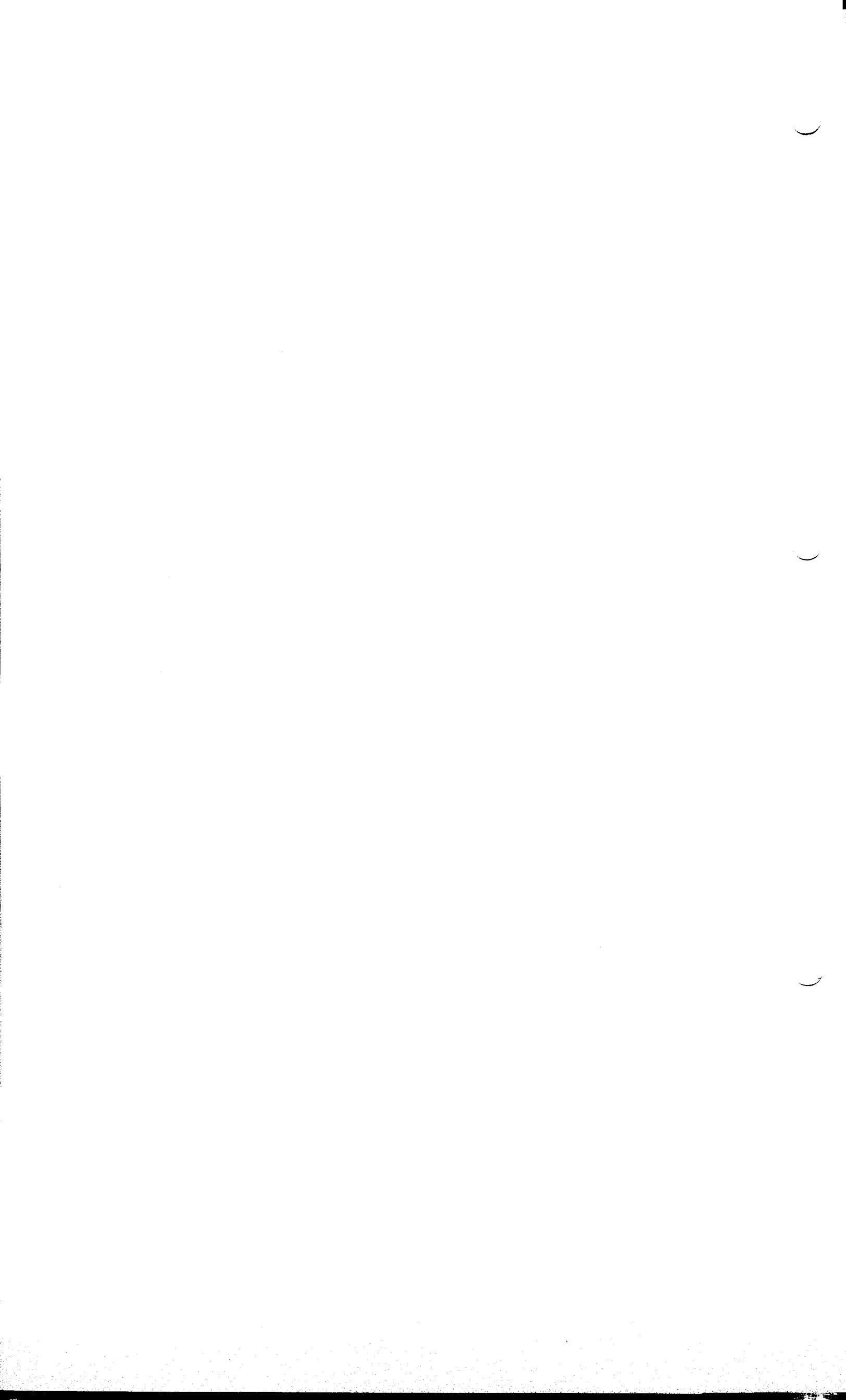
Internal Standards referenced to 005CALB.D#

2 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
 0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)



Samples Raw Data

Geomatrix Consultants



File : C:\HPCHEM\1\DATA\Apr0400.18A\023SMPL.D\023SMPL.D#
 Acquired : Apr 4 00 09:15 pm using AcqMethod M6020.M
 Operator :
 Sample Name: 00-03-1138-1
 Misc Info : 50/50
 Vial Number: 2105
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: -----
 Dilution : 1.000000

Element	Concentration	Cal Conc	LRS Conc	Flag
Be 9	0.073 ppb	200.000	1000	Pass
B 11	352.400 ppb	200.000	1000	>Cal std
Na 23	140.400 ppb	200.000	5000	Pass
Mg 24	18.880 ppb	200.000	5000	Pass
Al 27	0.133 ppb	200.000	5000	Pass
K 39	7.594 ppb	200.000	5000	Pass
Ca 44	14.020 ppb	200.000	5000	Pass
Ti 47	0.092 ppb	200.000	5000	Pass
V 51	0.090 ppb	200.000	5000	Pass
Cr 52	0.024 ppb	200.000	5000	Pass
Fe 54	8.297 ppb	200.000	5000	Pass
Mn 55	0.349 ppb	200.000	5000	Pass
Fe 57	28.970 ppb	200.000	5000	Pass
Co 59	0.092 ppb	200.000	5000	Pass
Ni 60	0.072 ppb	200.000	5000	Pass
Cu 65	1.640 ppb	200.000	5000	Pass
Zn 68	7.332 ppb	200.000	5000	Pass
As 75	0.110 ppb	200.000	5000	Pass
Se 78	-0.057 ppb	200.000	5000	Pass
Se 82	-0.103 ppb	200.000	5000	Pass
Sr 88	0.267 ppb	200.000	5000	Pass
Mo 95	0.408 ppb	200.000	5000	Pass
Ag 107	0.031 ppb	200.000	5000	Pass
Cd 114	0.072 ppb	200.000	5000	Pass
Sn 120	0.017 ppb	200.000	5000	Pass
Sb 123	0.282 ppb	200.000	5000	Pass
Ba 135	0.706 ppb	200.000	5000	Pass
Tl 205	0.112 ppb	200.000	5000	Pass
Pb 208	0.485 ppb	200.000	5000	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	171262	Pass
89	195901	211124	Pass
115	206572	221874	Pass
159	270211	291741	Pass
165	268071	285822	Pass
209	160837	171475	Pass

Internal Standards referenced to 005CALB.D#

1 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
 0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

File : C:\HPCHEM\1\DATA\Apr0400.18A\024SMPL.D\024SMPL.D#
 Acquired : Apr 4 00 09:21 pm using AcqMethod M6020.M
 Operator :
 Sample Name: 00-03-1138-1*5
 Misc Info : 50/50*5
 Vial Number: 2106
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: -----
 Dilution : 5.000000

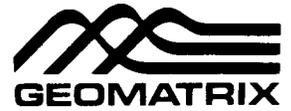
Element	Concentration	Cal Conc	LRS Conc	Flag
Be 9	0.188 ppb	200.000	1000	Pass
B 11	1899.000 ppb	200.000	1000	>Cal std
Na 23	92.710 ppb	200.000	5000	Pass
Mg 24	13.560 ppb	200.000	5000	Pass
Al 27	-8.029 ppb	200.000	5000	Pass
K 39	6.605 ppb	200.000	5000	Pass
Ca 44	11.130 ppb	200.000	5000	Pass
Ti 47	-0.336 ppb	200.000	5000	Pass
V 51	0.287 ppb	200.000	5000	Pass
Cr 52	-0.205 ppb	200.000	5000	Pass
Fe 54	-66.930 ppb	200.000	5000	Pass
Mn 55	-0.006 ppb	200.000	5000	Pass
Fe 57	-12.300 ppb	200.000	5000	Pass
Co 59	0.188 ppb	200.000	5000	Pass
Ni 60	0.454 ppb	200.000	5000	Pass
Cu 65	1.784 ppb	200.000	5000	Pass
Zn 68	18.190 ppb	200.000	5000	Pass
As 75	-0.041 ppb	200.000	5000	Pass
Se 78	-1.546 ppb	200.000	5000	Pass
Se 82	-1.768 ppb	200.000	5000	Pass
Sr 88	0.463 ppb	200.000	5000	Pass
Mo 95	0.269 ppb	200.000	5000	Pass
Ag 107	-0.047 ppb	200.000	5000	Pass
Cd 114	0.112 ppb	200.000	5000	Pass
Sn 120	0.060 ppb	200.000	5000	Pass
Sb 123	0.352 ppb	200.000	5000	Pass
Ba 135	0.506 ppb	200.000	5000	Pass
Tl 205	0.312 ppb	200.000	5000	Pass
Pb 208	0.898 ppb	200.000	5000	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	169437	Pass
89	195901	210912	Pass
115	206572	223133	Pass
159	270211	288886	Pass
165	268071	282919	Pass
209	160837	170491	Pass

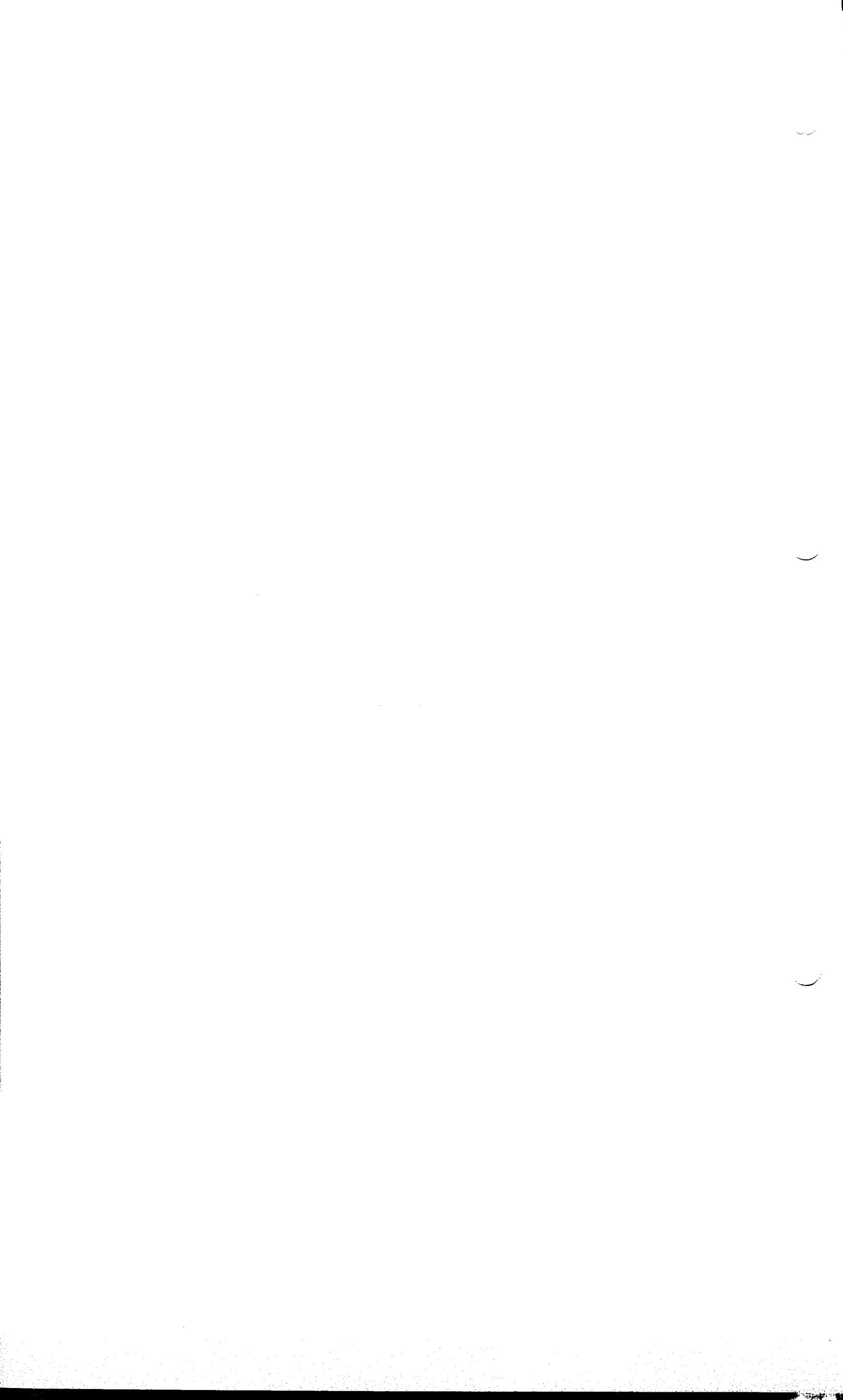
Internal Standards referenced to 005CALB.D#

1 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
 0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)



Continuing Calibration Verification Raw Data

Geomatrix Consultants



File : C:\HPCHEM\1\DATA\Apr0400.18A\025CCV_.D\025CCV_.D#
 Acquired : Apr 4 00 09:27 pm using AcqMethod M6020.M
 Operator :
 Sample Name: ccv 100 ppb
 Misc Info :
 Vial Number: 1104
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: CCV
 Dilution : 1.000000

CCV Mix #1

Element	Concentration	Expected	QC Range	Flag
Be 9	102.400 ppb	100.00	90.00-110.00	Pass
B 11	381.600 ppb	100.00	90.00-110.00	*Fail*
Na 23	81.220 ppb	100.00	90.00-110.00	*Fail*
Mg 24	102.100 ppb	100.00	90.00-110.00	Pass
Al 27	101.100 ppb	100.00	90.00-110.00	Pass
K 39	99.260 ppb	100.00	90.00-110.00	Pass
Ca 44	99.800 ppb	100.00	90.00-110.00	Pass
Ti 47	103.100 ppb	100.00	90.00-110.00	Pass
V 51	103.500 ppb	100.00	90.00-110.00	Pass
Cr 52	104.500 ppb	100.00	90.00-110.00	Pass
Fe 54	93.620 ppb	100.00	90.00-110.00	Pass
Mn 55	102.900 ppb	100.00	90.00-110.00	Pass
Fe 57	103.600 ppb	100.00	90.00-110.00	Pass
Co 59	106.400 ppb	100.00	90.00-110.00	Pass
Ni 60	104.000 ppb	100.00	90.00-110.00	Pass
Cu 65	103.900 ppb	100.00	90.00-110.00	Pass
Zn 68	102.400 ppb	100.00	90.00-110.00	Pass
As 75	103.400 ppb	100.00	90.00-110.00	Pass
Se 78	102.400 ppb	100.00	90.00-110.00	Pass
Se 82	102.700 ppb	100.00	90.00-110.00	Pass
Sr 88	104.200 ppb	100.00	90.00-110.00	Pass
Mo 95	105.500 ppb	100.00	90.00-110.00	Pass
Ag 107	101.500 ppb	100.00	90.00-110.00	Pass
Cd 114	103.500 ppb	100.00	90.00-110.00	Pass
Sn 120	102.500 ppb	100.00	90.00-110.00	Pass
Sb 123	103.800 ppb	100.00	90.00-110.00	Pass
Ba 135	105.700 ppb	100.00	90.00-110.00	Pass
Tl 205	102.900 ppb	100.00	90.00-110.00	Pass
Pb 208	103.600 ppb	100.00	90.00-110.00	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	174567	Pass
89	195901	217395	Pass
115	206572	232768	Pass
159	270211	301343	Pass
165	268071	299456	Pass
209	160837	181807	Pass

Internal Standards referenced to 005CALB.D#

2 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!

File : C:\HPCHEM\1\DATA\Apr0400.18A\026CCB_.D\026CCB_.D#
 Acquired : Apr 4 00 09:32 pm using AcqMethod M6020.M
 Operator :
 Sample Name: ccb
 Misc Info :
 Vial Number: 3
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: CCB
 Dilution : 1.000000

Element	Concentration	CRDL Limit	Flag
Be 9	0.088 ppb	1.00	Pass
B 11	407.300 ppb	1.00	*Fail*
Na 23	-13.570 ppb	1.00	*Fail*
Mg 24	-0.679 ppb	1.00	Pass
Al 27	0.326 ppb	1.00	Pass
K 39	-1.914 ppb	1.00	*Fail*
Ca 44	-2.575 ppb	1.00	*Fail*
Ti 47	0.068 ppb	1.00	Pass
V 51	0.093 ppb	1.00	Pass
Cr 52	0.037 ppb	1.00	Pass
Fe 54	-12.290 ppb	1.00	*Fail*
Mn 55	0.129 ppb	1.00	Pass
Fe 57	0.526 ppb	1.00	Pass
Co 59	0.084 ppb	1.00	Pass
Ni 60	0.098 ppb	1.00	Pass
Cu 65	0.099 ppb	1.00	Pass
Zn 68	-0.058 ppb	1.00	Pass
As 75	0.121 ppb	1.00	Pass
Se 78	1.170 ppb	1.00	*Fail*
Se 82	-0.015 ppb	1.00	Pass
Sr 88	0.079 ppb	1.00	Pass
Mo 95	0.152 ppb	1.00	Pass
Ag 107	0.123 ppb	1.00	Pass
Cd 114	0.074 ppb	1.00	Pass
Sn 120	0.110 ppb	1.00	Pass
Sb 123	0.264 ppb	1.00	Pass
Ba 135	0.060 ppb	1.00	Pass
Tl 205	0.122 ppb	1.00	Pass
Pb 208	0.112 ppb	1.00	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	167324	Pass
89	195901	212472	Pass
115	206572	223758	Pass
159	270211	293873	Pass
165	268071	287492	Pass
209	160837	171640	Pass

Internal Standards referenced to 005CALB.D#

6 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
 0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)



MS/MSD QC Data

Geomatrix Consultants



File : C:\HPCHEM\1\DATA\Apr0400.18A\027SMPL.D\027SMPL.D#
 Acquired : Apr 4 00 09:38 pm using AcqMethod M6020.M
 Operator :
 Sample Name: 00-03-1138-1MS
 Misc Info : 50/50
 Vial Number: 2107
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: -----
 Dilution : 1.000000

Element	Concentration	Cal Conc	LRS Conc	Flag
Be 9	105.100 ppb	200.000	1000	Pass
B 11	-290.600 ppb	200.000	1000	Pass
Na 23	237.700 ppb	200.000	5000	>Cal std
Mg 24	123.900 ppb	200.000	5000	Pass
Al 27	102.600 ppb	200.000	5000	Pass
K 39	1079.000 ppb	200.000	5000	>Cal std
Ca 44	123.300 ppb	200.000	5000	Pass
Ti 47	104.000 ppb	200.000	5000	Pass
V 51	107.900 ppb	200.000	5000	Pass
Cr 52	105.600 ppb	200.000	5000	Pass
Fe 54	98.620 ppb	200.000	5000	Pass
Mn 55	108.900 ppb	200.000	5000	Pass
Fe 57	119.600 ppb	200.000	5000	Pass
Co 59	108.900 ppb	200.000	5000	Pass
Ni 60	106.700 ppb	200.000	5000	Pass
Cu 65	110.200 ppb	200.000	5000	Pass
Zn 68	118.700 ppb	200.000	5000	Pass
As 75	108.800 ppb	200.000	5000	Pass
Se 78	108.200 ppb	200.000	5000	Pass
Se 82	109.600 ppb	200.000	5000	Pass
Sr 88	112.100 ppb	200.000	5000	Pass
Mo 95	106.700 ppb	200.000	5000	Pass
Ag 107	51.470 ppb	200.000	5000	Pass
Cd 114	105.700 ppb	200.000	5000	Pass
Sn 120	105.500 ppb	200.000	5000	Pass
Sb 123	103.400 ppb	200.000	5000	Pass
Ba 135	108.400 ppb	200.000	5000	Pass
Tl 205	110.100 ppb	200.000	5000	Pass
Pb 208	109.800 ppb	200.000	5000	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	180246	Pass
89	195901	220647	Pass
115	206572	235974	Pass
159	270211	307484	Pass
165	268071	307809	Pass
209	160837	184548	Pass

Internal Standards referenced to 005CALB.D#

2 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
 0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

File : C:\HPCHEM\1\DATA\Apr0400.18A\028SMPL.D\028SMPL.D#
 Acquired : Apr 4 00 09:44 pm using AcqMethod M6020.M
 Operator :
 Sample Name: 00-03-1138-1MSD
 Misc Info : 50/50
 Vial Number: 2108
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: -----
 Dilution : 1.000000

Element	Concentration	Cal Conc	LRS Conc	Flag
Be 9	102.500 ppb	200.000	1000	Pass
B 11	-309.300 ppb	200.000	1000	Pass
Na 23	233.500 ppb	200.000	5000	>Cal std
Mg 24	121.700 ppb	200.000	5000	Pass
Al 27	103.200 ppb	200.000	5000	Pass
K 39	1070.000 ppb	200.000	5000	>Cal std
Ca 44	123.700 ppb	200.000	5000	Pass
Ti 47	101.700 ppb	200.000	5000	Pass
V 51	106.800 ppb	200.000	5000	Pass
Cr 52	105.700 ppb	200.000	5000	Pass
Fe 54	94.540 ppb	200.000	5000	Pass
Mn 55	108.800 ppb	200.000	5000	Pass
Fe 57	106.000 ppb	200.000	5000	Pass
Co 59	107.500 ppb	200.000	5000	Pass
Ni 60	105.200 ppb	200.000	5000	Pass
Cu 65	110.500 ppb	200.000	5000	Pass
Zn 68	118.800 ppb	200.000	5000	Pass
As 75	106.200 ppb	200.000	5000	Pass
Se 78	108.600 ppb	200.000	5000	Pass
Se 82	107.900 ppb	200.000	5000	Pass
Sr 88	109.700 ppb	200.000	5000	Pass
Mo 95	107.100 ppb	200.000	5000	Pass
Ag 107	53.380 ppb	200.000	5000	Pass
Cd 114	106.100 ppb	200.000	5000	Pass
Sn 120	104.900 ppb	200.000	5000	Pass
Sb 123	102.300 ppb	200.000	5000	Pass
Ba 135	108.700 ppb	200.000	5000	Pass
Tl 205	111.300 ppb	200.000	5000	Pass
Pb 208	110.100 ppb	200.000	5000	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	183933	Pass
89	195901	226553	Pass
115	206572	239045	Pass
159	270211	313787	Pass
165	268071	311157	Pass
209	160837	185042	Pass

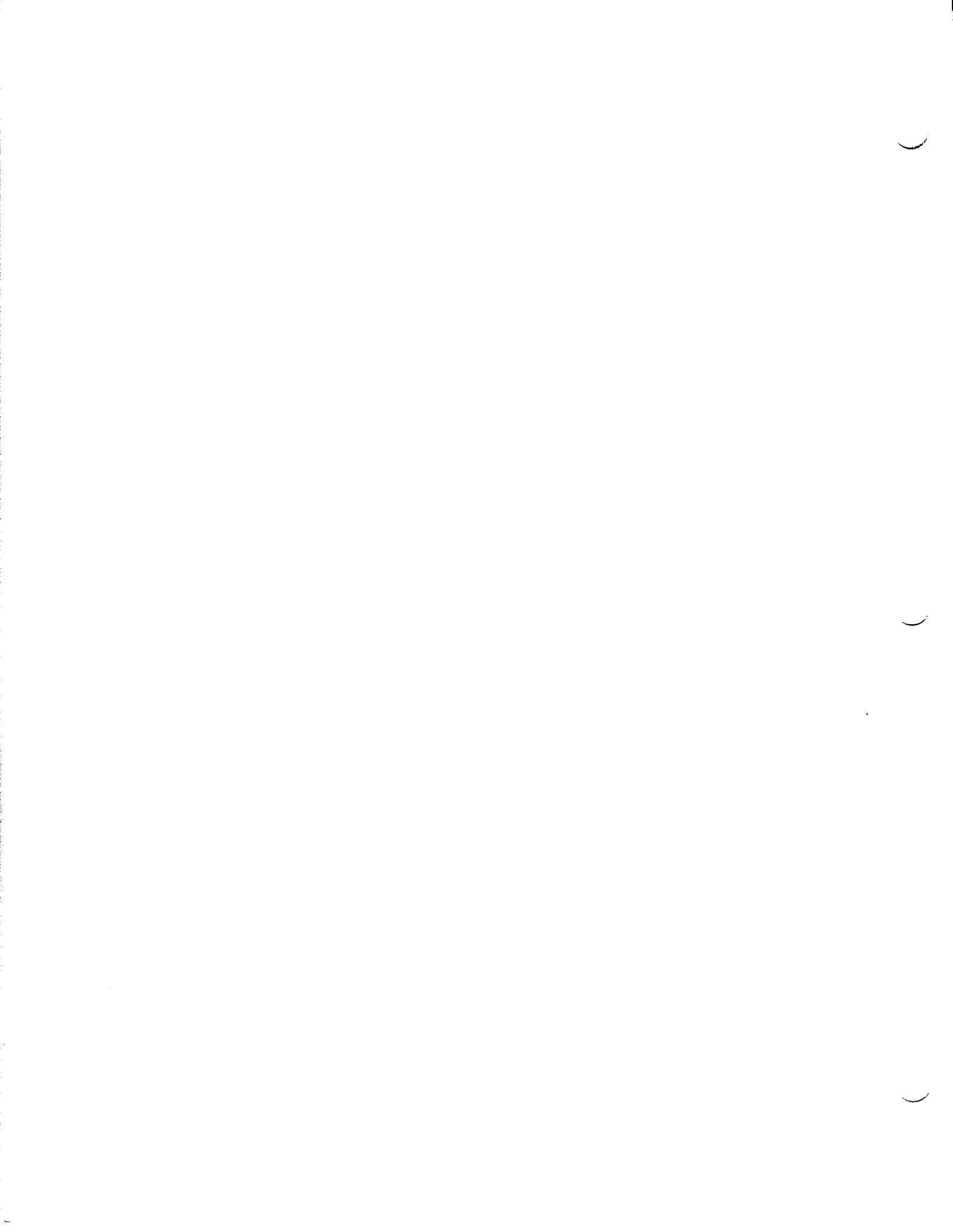
Internal Standards referenced to 005CALB.D#

2 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
 0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)



PDS/PDSD Sample Data

Geomatrix Consultants



File : C:\HPCHEM\1\DATA\Apr0400.18A\029SMPL.D\029SMPL.D#
 Acquired : Apr 4 00 09:50 pm using AcqMethod M6020.M
 Operator :
 Sample Name: 00-03-1138-1PDS
 Misc Info : 50/50
 Vial Number: 2109
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: -----
 Dilution : 1.000000

Element	Concentration	Cal Conc	LRS Conc	Flag
Be 9	102.800 ppb	200.000	1000	Pass
B 11	-300.900 ppb	200.000	1000	Pass
Na 23	234.100 ppb	200.000	5000	>Cal std
Mg 24	121.900 ppb	200.000	5000	Pass
Al 27	102.700 ppb	200.000	5000	Pass
K 39	1091.000 ppb	200.000	5000	>Cal std
Ca 44	121.200 ppb	200.000	5000	Pass
Ti 47	101.700 ppb	200.000	5000	Pass
V 51	107.300 ppb	200.000	5000	Pass
Cr 52	106.100 ppb	200.000	5000	Pass
Fe 54	89.710 ppb	200.000	5000	Pass
Mn 55	109.500 ppb	200.000	5000	Pass
Fe 57	105.100 ppb	200.000	5000	Pass
Co 59	107.200 ppb	200.000	5000	Pass
Ni 60	105.800 ppb	200.000	5000	Pass
Cu 65	108.700 ppb	200.000	5000	Pass
Zn 68	114.800 ppb	200.000	5000	Pass
As 75	107.600 ppb	200.000	5000	Pass
Se 78	104.100 ppb	200.000	5000	Pass
Se 82	107.200 ppb	200.000	5000	Pass
Sr 88	108.900 ppb	200.000	5000	Pass
Mo 95	106.100 ppb	200.000	5000	Pass
Ag 107	53.020 ppb	200.000	5000	Pass
Cd 114	104.900 ppb	200.000	5000	Pass
Sn 120	103.500 ppb	200.000	5000	Pass
Sb 123	100.600 ppb	200.000	5000	Pass
Ba 135	110.400 ppb	200.000	5000	Pass
Tl 205	110.300 ppb	200.000	5000	Pass
Pb 208	107.800 ppb	200.000	5000	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	183016	Pass
89	195901	227873	Pass
115	206572	241405	Pass
159	270211	317742	Pass
165	268071	312302	Pass
209	160837	186983	Pass

Internal Standards referenced to 005CALB.D#

2 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
 0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

File : C:\HPCHEM\1\DATA\Apr0400.18A\030SMPL.D\030SMPL.D#
 Acquired : Apr 4 00 09:57 pm using AcqMethod M6020.M
 Operator :
 Sample Name: 00-03-1138-1PDSD
 Misc Info : 50/50
 Vial Number: 2110
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: -----
 Dilution : 1.000000

Element	Concentration	Cal Conc	LRS Conc	Flag
Be 9	101.800 ppb	200.000	1000	Pass
B 11	-280.200 ppb	200.000	1000	Pass
Na 23	244.800 ppb	200.000	5000	>Cal std
Mg 24	122.000 ppb	200.000	5000	Pass
Al 27	103.300 ppb	200.000	5000	Pass
K 39	1103.000 ppb	200.000	5000	>Cal std
Ca 44	121.100 ppb	200.000	5000	Pass
Ti 47	101.800 ppb	200.000	5000	Pass
V 51	106.900 ppb	200.000	5000	Pass
Cr 52	105.700 ppb	200.000	5000	Pass
Fe 54	88.770 ppb	200.000	5000	Pass
Mn 55	108.700 ppb	200.000	5000	Pass
Fe 57	101.700 ppb	200.000	5000	Pass
Co 59	108.300 ppb	200.000	5000	Pass
Ni 60	106.800 ppb	200.000	5000	Pass
Cu 65	107.600 ppb	200.000	5000	Pass
Zn 68	112.800 ppb	200.000	5000	Pass
As 75	103.600 ppb	200.000	5000	Pass
Se 78	103.800 ppb	200.000	5000	Pass
Se 82	103.200 ppb	200.000	5000	Pass
Sr 88	108.400 ppb	200.000	5000	Pass
Mo 95	104.300 ppb	200.000	5000	Pass
Ag 107	53.240 ppb	200.000	5000	Pass
Cd 114	103.100 ppb	200.000	5000	Pass
Sn 120	104.300 ppb	200.000	5000	Pass
Sb 123	101.000 ppb	200.000	5000	Pass
Ba 135	110.400 ppb	200.000	5000	Pass
Tl 205	109.000 ppb	200.000	5000	Pass
Pb 208	108.300 ppb	200.000	5000	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	184434	Pass
89	195901	231251	Pass
115	206572	244746	Pass
159	270211	316367	Pass
165	268071	313437	Pass
209	160837	188465	Pass

Internal Standards referenced to 005CALB.D#

2 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
 0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

File : C:\HPCHEM\1\DATA\Apr0400.18A\047ICSB.D\047ICSB.D#
 Acquired : Apr 4 00 11:41 pm using AcqMethod M6020.M
 Operator :
 Sample Name: periodic ICSAB check
 Misc Info :
 Vial Number: 1204
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: ICS_AB
 Dilution : 1.000000

Element	Concentration	Expected	CRDL Range Conc	%Range Conc	Flag
Be 9	-0.007 ppb	0.00	-1.00-1.00	0-0	Pass
B 11	506.100 ppb	0.00	-1.00-1.00	0-0	*Fail*
Na 23	22340.000 ppb	250.00	249.00-251.00	250-250	*Fail*
Mg 24	8581.000 ppb	100.00	99.00-101.00	100-100	*Fail*
Al 27	8348.000 ppb	100.00	99.00-101.00	100-100	*Fail*
K 39	9966.000 ppb	100.00	99.00-101.00	100-100	*Fail*
Ca 44	15070.000 ppb	300.00	299.00-301.00	300-300	*Fail*
Ti 47	195.400 ppb	2.00	1.00-3.00	2-2	*Fail*
V 51	18.870 ppb	20.00	19.00-21.00	20-20	*Fail*
Cr 52	18.600 ppb	20.00	19.00-21.00	20-20	*Fail*
Fe 54	15960.000 ppb	250.00	249.00-251.00	250-250	*Fail*
Mn 55	19.240 ppb	20.00	19.00-21.00	20-20	Pass
Fe 57	23040.000 ppb	250.00	249.00-251.00	250-250	*Fail*
Co 59	18.170 ppb	20.00	19.00-21.00	20-20	*Fail*
Ni 60	17.850 ppb	20.00	19.00-21.00	20-20	*Fail*
Cu 65	19.890 ppb	20.00	19.00-21.00	20-20	Pass
Zn 68	10.130 ppb	10.00	9.00-11.00	10-10	Pass
As 75	9.964 ppb	10.00	9.00-11.00	10-10	Pass
Se 78	9.554 ppb	10.00	9.00-11.00	10-10	Pass
Se 82	9.371 ppb	10.00	9.00-11.00	10-10	Pass
Sr 88	1.643 ppb	0.00	-1.00-1.00	0-0	*Fail*
Mo 95	197.200 ppb	2.00	1.00-3.00	2-2	*Fail*
Ag 107	4.910 ppb	5.00	4.00-6.00	5-5	Pass
Cd 114	9.077 ppb	10.00	9.00-11.00	10-10	Pass
Sn 120	1.236 ppb	0.00	-1.00-1.00	0-0	*Fail*
Sb 123	0.414 ppb	0.00	-1.00-1.00	0-0	Pass
Ba 135	0.097 ppb	0.00	-1.00-1.00	0-0	Pass
Tl 205	-0.011 ppb	0.00	-1.00-1.00	0-0	Pass
Pb 208	0.282 ppb	0.00	-1.00-1.00	0-0	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	207175	Pass
89	195901	225968	Pass
115	206572	217422	Pass
159	270211	315333	Pass
165	268071	318210	Pass
209	160837	199965	Pass

Internal Standards referenced to 005CALB.D#

16 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
 0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

File : C:\HPCHEM\1\DATA\Apr0400.18A\048CCV_.D\048CCV_.D#
 Acquired : Apr 4 00 11:47 pm using AcqMethod M6020.M
 Operator :
 Sample Name: CCV 100 ppb
 Misc Info :
 Vial Number: 1104
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: CCV
 Dilution : 1.000000

CCV Mix #1

Element	Concentration	Expected	QC Range	Flag
Be 9	90.970 ppb	100.00	90.00-110.00	Pass
B 11	505.500 ppb	100.00	90.00-110.00	*Fail*
Na 23	120.200 ppb	100.00	90.00-110.00	*Fail*
Mg 24	111.600 ppb	100.00	90.00-110.00	*Fail*
Al 27	109.900 ppb	100.00	90.00-110.00	Pass
K 39	107.300 ppb	100.00	90.00-110.00	Pass
Ca 44	157.400 ppb	100.00	90.00-110.00	*Fail*
Ti 47	101.000 ppb	100.00	90.00-110.00	Pass
V 51	99.450 ppb	100.00	90.00-110.00	Pass
Cr 52	98.850 ppb	100.00	90.00-110.00	Pass
Fe 54	102.800 ppb	100.00	90.00-110.00	Pass
Mn 55	98.120 ppb	100.00	90.00-110.00	Pass
Fe 57	128.800 ppb	100.00	90.00-110.00	*Fail*
Co 59	99.070 ppb	100.00	90.00-110.00	Pass
Ni 60	97.550 ppb	100.00	90.00-110.00	Pass
Cu 65	104.700 ppb	100.00	90.00-110.00	Pass
Zn 68	103.000 ppb	100.00	90.00-110.00	Pass
As 75	104.200 ppb	100.00	90.00-110.00	Pass
Se 78	100.100 ppb	100.00	90.00-110.00	Pass
Se 82	103.600 ppb	100.00	90.00-110.00	Pass
Sr 88	101.500 ppb	100.00	90.00-110.00	Pass
Mo 95	100.700 ppb	100.00	90.00-110.00	Pass
Ag 107	102.000 ppb	100.00	90.00-110.00	Pass
Cd 114	100.600 ppb	100.00	90.00-110.00	Pass
Sn 120	96.330 ppb	100.00	90.00-110.00	Pass
Sb 123	94.960 ppb	100.00	90.00-110.00	Pass
Ba 135	100.100 ppb	100.00	90.00-110.00	Pass
Tl 205	101.700 ppb	100.00	90.00-110.00	Pass
Pb 208	101.800 ppb	100.00	90.00-110.00	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	190083	Pass
89	195901	217530	Pass
115	206572	225284	Pass
159	270211	308272	Pass
165	268071	306784	Pass
209	160837	195125	Pass

Internal Standards referenced to 005CALB.D#

5 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!

File : C:\HPCHEM\1\DATA\Apr0400.18A\049CCB_.D\049CCB_.D#
 Acquired : Apr 4 00 11:53 pm using AcqMethod M6020.M
 Operator :
 Sample Name: CCB
 Misc Info :
 Vial Number: 3
 CurrentMeth: C:\HPCHEM\1\METHODS\M6020.M
 BkgFile : -----
 Sample Type: CCB
 Dilution : 1.000000

Element	Concentration	CRDL Limit	Flag
Be 9	0.147 ppb	1.00	Pass
B 11	511.000 ppb	1.00	*Fail*
Na 23	31.880 ppb	1.00	*Fail*
Mg 24	19.620 ppb	1.00	*Fail*
Al 27	14.670 ppb	1.00	*Fail*
K 39	8.882 ppb	1.00	*Fail*
Ca 44	99.230 ppb	1.00	*Fail*
Ti 47	0.798 ppb	1.00	Pass
V 51	0.163 ppb	1.00	Pass
Cr 52	0.063 ppb	1.00	Pass
Fe 54	9.471 ppb	1.00	*Fail*
Mn 55	0.316 ppb	1.00	Pass
Fe 57	38.200 ppb	1.00	*Fail*
Co 59	0.149 ppb	1.00	Pass
Ni 60	0.149 ppb	1.00	Pass
Cu 65	0.168 ppb	1.00	Pass
Zn 68	0.257 ppb	1.00	Pass
As 75	0.141 ppb	1.00	Pass
Se 78	0.205 ppb	1.00	Pass
Se 82	-0.128 ppb	1.00	Pass
Sr 88	0.722 ppb	1.00	Pass
Mo 95	0.424 ppb	1.00	Pass
Ag 107	0.324 ppb	1.00	Pass
Cd 114	0.134 ppb	1.00	Pass
Sn 120	0.134 ppb	1.00	Pass
Sb 123	0.302 ppb	1.00	Pass
Ba 135	0.254 ppb	1.00	Pass
Tl 205	0.162 ppb	1.00	Pass
Pb 208	0.199 ppb	1.00	Pass

Internal Standard QC Report

ISTD m/z	Ref. Counts	Sample Counts	Flag
45	162770	176426	Pass
89	195901	205496	Pass
115	206572	219126	Pass
159	270211	291716	Pass
165	268071	291499	Pass
209	160837	178667	Pass

Internal Standards referenced to 005CALB.D#

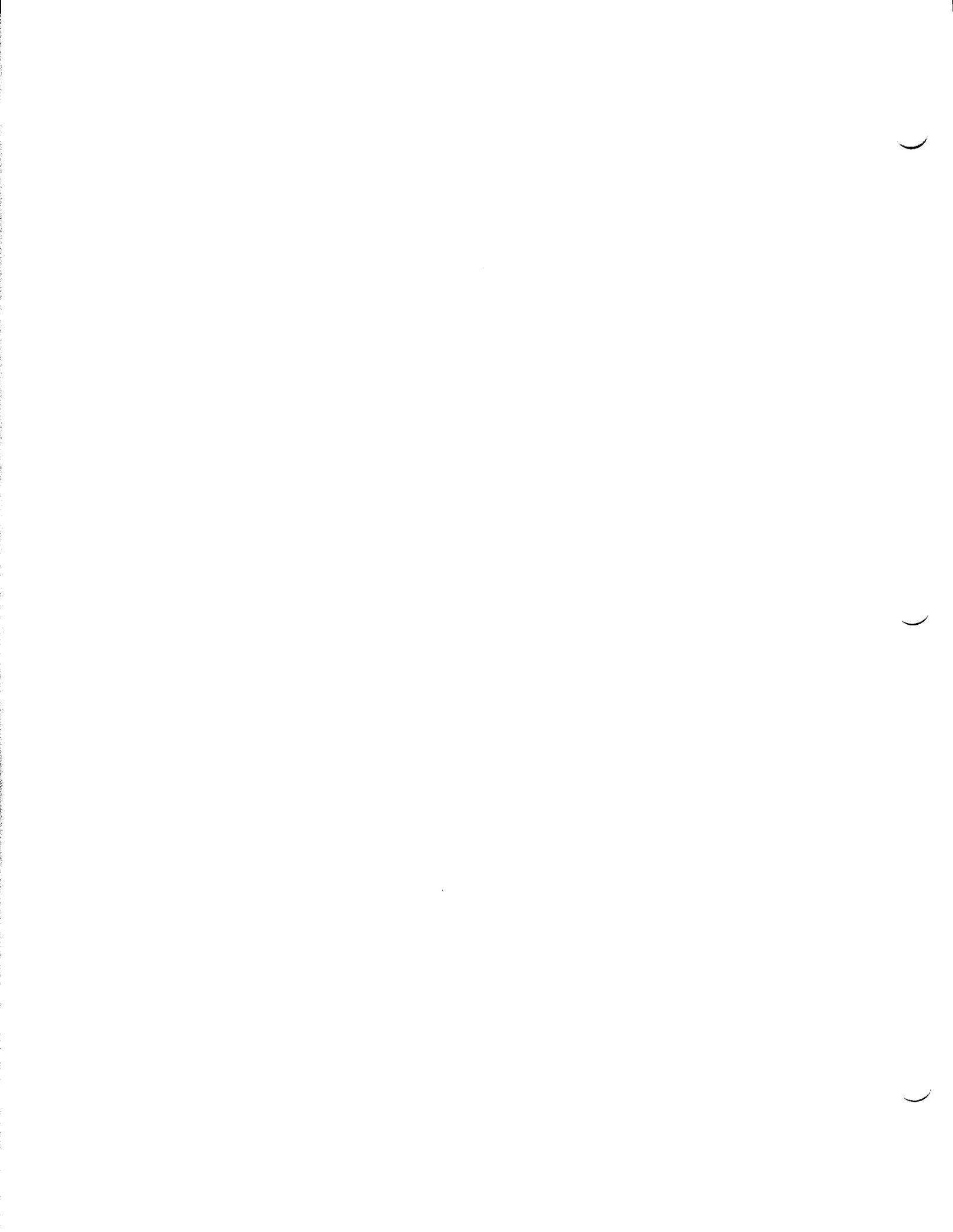
8 Element Failures! Maximum Number of Allowed Failures (0) Exceeded!
 0 ISTD Failures. Maximum Number of ISTD Failures Allowed (0)

Digestion Log



**Mercury (EPA 7470A)
Raw Data**

Geomatrix Consultants



DATE	DATA FILE	ID FILE	GEL ID #	INITIAL SAMPLE Vol(mL)/WT(g)	FINAL SAMPLE Vol(mL)	DILUTION FACTOR	Lot #	MS/MSD Conc (ppm)	Vol (mL)	POS.	WHO	COMMENTS
4/1/02	00040101	00040101	WS-44(25ml)	25ml	100						HR	
			WS-44(25ml)dup	↓								
			ZRA 9877(50ml)	50								
			ZRA 9877(50ml)dup	↓								
			ZRA 9877(25ml)	25								
			ZRA 9877(25ml)dup	↓								
			200401-LCS-HR dup	50								
			duv	100								
			duv	↓								
			Cal. Blank									
4/3/02	00040301	00040301	Cal. 0.50ppb	100	100	20	M040100A	1.0	0.2		JP	
			1.00	↓								
			2.00	↓		10	M040100A	1.0	1.0			
			5.00	↓		5						
			10.00	↓		2						
			icv	↓		1						
			icb	↓		1						
			000401LCS2	See sample prep. Build								
			mb 2									
			00-03-1187-1MS									
			↓ -1MSD									
			00-03-1187-1									
			000401LCS1									
			↓ MB									
			00-03-1187-(6MS)									
			↓ -16MSB									

Reviewed by: _____ on _____

CalScience Environmental Laboratories, Inc.

DATE	DATA FILE	ID FILE	CEL ID #	INITIAL SAMPLE Vol(ml), Wt(g)	FINAL SAMPLE Vol(ml)	DILUTION FACTOR	Lot #	MS/MSD Conc (ppm)	Vol (ml)	POS.	WHO	COMMENTS
4/2/00	00040301	00040301	00-03-1187-2	See Sample prep. Bulk		5	M040100A	1.0	1.0		TP	
			00-03-1187-3									
			-4									
			-5									
			-6									
			-7									
			-8									
			-9									
			-10									
			-11									
			-12									
			00-03-1187-13									
			-14									
			-15									
			-16									
			-17									
			00-03-1138-1									
			000403 LGS 1 ST									
			00-03-1138-1									
			000403 LGS 1 ST									

See
didn't sample
see 4/4/00

Calscience Environmental Laboratories, Inc.

DATE	DATA FILE	ID FILE	CEL ID #	INITIAL SAMPLE Vol(ml)/WT(g)	FINAL SAMPLE Vol(ml)	DILUTION FACTOR	Lot #	MSMSD Conc (ppm)	Vol (ml)	POS.	WHO	COMMENTS
4/3/00	00040301	00040301	000403MB1ST	See Sample prep. Blank							JP	
			00-03-1145-1MS ST ↓ MSD ST									
			00-03-1145-1ST									
			00-03-1176-1ST									
			00-03-0985-1ST									
			00-03-1137-1P ↓ -20									
			CUV	100	100	5	M040100A	1.0	1.0			
			CLB	↓	↓							
4/2/00	00040401	00040401	Ca/ib Blank	See sample prep'n blank							PA	
			0.50 ppb			20	M040100A	1.0	1.0			
			1.0			10						
			2.0			5						
			5.0			2						
			10.0			1						
			ICV			1	M040100B	1.0	0.5			
			ICb									
			BLANK									
			CCV									
			CCb									
			000403LCS3									
			000403MB3									
			00-04-0007-33									
			00-04-0007-33									
			00-04-0007-35									

ample Information File C:\AAUSER\SAMPINFO\00040301.SIF

Description :
 ID : 00040301
 Volume Units :
 Weight Units :
 Analyst : JB
 Sample Volume : 0.00

AS Sample ID	Sample Weight	Sample Units	User Dilution	Remarks
7 000401 LCS2			2.0000	
8 000401 MB2			2.0000	
9 00-03-1187-1 MS			2.0000	
10 00-03-1187-1 MSD			2.0000	
11 00-03-1187-1			2.0000	
12 000401 LCS1			167.0000	
13 000401 MB1			167.0000	
14 00-03-1187-16 MS			167.0000	
15 00-03-1187-16 MSD			167.0000	
16 00-03-1187-2			167.0000	
17 00-03-1187-3			167.0000	
18 00-03-1187-4			167.0000	
19 00-03-1187-5			167.0000	
20 00-03-1187-6			167.0000	
21 00-03-1187-7			167.0000	
22 00-03-1187-8			167.0000	
23 00-03-1187-9			167.0000	
24 00-03-1187-10			167.0000	
25 00-03-1187-11			167.0000	
26 00-03-1187-12			167.0000	
27 00-03-1187-13			167.0000	
28 00-03-1187-14			167.0000	
29 00-03-1187-15			167.0000	
30 00-03-1187-16			167.0000	
31 00-03-1187-17			167.0000	
32 00-03-1138-1			2.0000	
33 000403 LCS1 ST			10.0000	
34 000403 MB1 ST			10.0000	
35 00-03-1145-1 MS ST			10.0000	
36 00-03-1145-1 MSD ST			10.0000	
37 00-03-1145-1 ST			10.0000	
38 00-03-1176-1 ST			10.0000	
39 00-03-0985-1 ST			10.0000	
40 00-03-1137-19			10.0000	
41 00-03-1137-20			15.0000	

Reported

Method Name: Hg
 Method Description: 5 point cal
 Element: Hg

Date: 04/03/2000

Technique: FI-MHS

Calibration Type:

Hg, Calc. Intercept : Linear

Wavelength: 253.7 nm

Sample Info Name: 00040301.SIF

Results Data Set Name: 00040301

Element: Hg Seq. No.: 1 AS Loc.: 6 Date: 04/03/2000
 Sample ID: Calib Blank

Repl #	SampleConc μg/L	StndConc μg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0001	0.0010	0.0001	11:45:26	No
2			0.0002	0.0013	0.0002	11:46:11	No
3			0.0001	0.0010	0.0001	11:46:55	No
Mean:			0.0001				
SD :			0.0000				
%RSD:			3.1166				

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 1 Date: 04/03/2000
 Sample ID: 0.50ppb

Repl #	SampleConc μg/L	StndConc μg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0056	0.0280	0.0058	11:48:28	No
2			0.0057	0.0285	0.0058	11:49:13	No
3			0.0057	0.0286	0.0058	11:49:58	No
Mean:			0.0057				
SD :			0.0000				
%RSD:			0.5159				

[Hg] Standard number 1 applied. [0.50]

Correlation Coefficient: 1.00000

Slope: 0.01131

Intercept : 0.00000

Element: Hg Seq. No.: 3 AS Loc.: 2 Date: 04/03/2000
 Sample ID: 1.00ppb

Repl #	SampleConc μg/L	StndConc μg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0114	0.0559	0.0115	11:51:30	No
2			0.0114	0.0561	0.0116	11:52:15	No
3			0.0115	0.0562	0.0116	11:52:59	No
Mean:			0.0114				
SD :			0.0000				
%RSD:			0.3255				

[Hg] Standard number 2 applied. [1.00]

Correlation Coefficient: 0.99998

Slope: 0.01144

Intercept : -0.00002

Element: Hg Seq. No.: 4 AS Loc.: 3 Date: 04/03/2000
 Sample ID: 2.00ppb

Repl #	SampleConc $\mu\text{g/L}$	StndConc $\mu\text{g/L}$	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0230	0.1118	0.0231	11:54:32	No
2			0.0230	0.1114	0.0231	11:55:16	No
3			0.0232	0.1120	0.0233	11:56:01	No
Mean:			0.0230				
SD :			0.0001				
%RSD:			0.4738				

[Hg] Standard number 3 applied. [2.00]
Correlation Coefficient: 0.99999 Slope: 0.01153
Intercept : -0.00006

=====
Element: Hg Seq. No.: 5 AS Loc.: 4 Date: 04/03/2000
Sample ID: 5.00ppb

Repl #	SampleConc $\mu\text{g/L}$	StndConc $\mu\text{g/L}$	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0560	0.2691	0.0562	11:57:34	No
2			0.0561	0.2687	0.0563	11:58:19	No
3			0.0561	0.2681	0.0562	11:59:03	No
Mean:			0.0561				
SD :			0.0001				
%RSD:			0.1086				

[Hg] Standard number 4 applied. [5.00]
Correlation Coefficient: 0.99993 Slope: 0.01121
Intercept : 0.00018

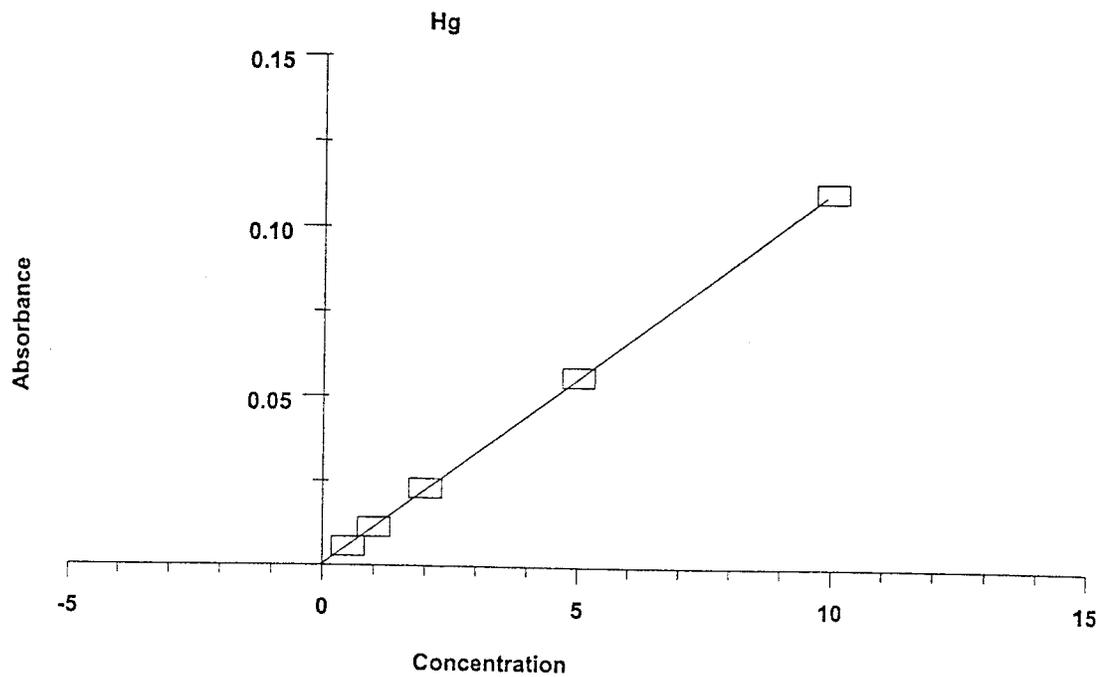
=====
Element: Hg Seq. No.: 6 AS Loc.: 5 Date: 04/03/2000
Sample ID: 10.00ppb

Repl #	SampleConc $\mu\text{g/L}$	StndConc $\mu\text{g/L}$	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1106	0.5317	0.1107	12:00:38	No
2			0.1107	0.5294	0.1109	12:01:22	No
3			0.1110	0.5304	0.1112	12:02:07	No
Mean:			0.1108				
SD :			0.0002				
%RSD:			0.2242				

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99996 Slope: 0.01107
Intercept : 0.00037

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration ($\mu\text{g/L}$)	Calculated Concentration ($\mu\text{g/L}$)	Standard Deviation	%RSD
Calib Blank	0.0001	--	----	----	----
0.50ppb	0.0057	0.50	0.48	0.000	0.5
1.00ppb	0.0114	1.00	1.00	0.000	0.3
2.00ppb	0.0230	2.00	2.05	0.000	0.5
5.00ppb	0.0561	5.00	5.03	0.000	0.1
10.00ppb	0.1108	10.00	9.98	0.000	0.2
Calib Blank	0.0001	--	----	----	----
Correlation Coefficient: 0.99996		Slope:	0.01107	Intercept:	0.0004



Element: Hg Seq. No.: 7 AS Loc.: 7 Date: 04/03/2000
Sample ID: icv

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.29	5.29	0.0589	0.2810	0.0590	12:17:23	No
2	5.25	5.25	0.0585	0.2777	0.0586	12:18:08	No
3	5.26	5.26	0.0586	0.2789	0.0587	12:18:54	No
Mean:	5.27	5.27	0.0586				
SD :	0.018	0.018	0.0002				
%RSD:	0.3	0.3	0.3363				

QC value within specified limits.

Element: Hg Seq. No.: 8 AS Loc.: 6 Date: 04/03/2000
Sample ID: icb

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	0.0000	0.0005	0.0001	12:20:31	No
2	-0.03	-0.03	0.0000	0.0013	0.0002	12:21:15	No
3	-0.03	-0.03	0.0000	0.0003	0.0001	12:22:00	No
Mean:	-0.03	-0.03	0.0000				
SD :	0.003	0.003	0.0000				
%RSD:	7.8	7.8	6468.8578				

QC value within specified limits.

Element: Hg Seq. No.: 9 AS Loc.: 17 Date: 04/03/2000
Sample ID: 000401 LCS2

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	9.92	4.96	0.0552	0.2639	0.0554	12:23:32	No
2	9.96	4.98	0.0555	0.2640	0.0556	12:24:17	No
3	9.95	4.97	0.0554	0.2629	0.0556	12:25:01	No
Mean:	9.94	4.97	0.0554				
SD :	0.023	0.012	0.0001				
%RSD:	0.2	0.2	0.2339				

Element: Hg Seq. No.: 10 AS Loc.: 18 Date: 04/03/2000
Sample ID: 000401 MB2

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.07	-0.04	0.0000	0.0004	0.0001	12:26:33	No
2	-0.07	-0.04	0.0000	0.0006	0.0001	12:27:17	No
3	-0.08	-0.04	-0.0001	0.0002	0.0001	12:28:02	No
Mean:	-0.08	-0.04	0.0000				
SD :	0.003	0.002	0.0000				
%RSD:	4.2	4.2	36.1391				

Element: Hg Seq. No.: 11 AS Loc.: 19 Date: 04/03/2000
Sample ID: 00-03-1187-1 MS

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.18	5.09	0.0567	0.2682	0.0568	12:29:34	No
2	10.21	5.10	0.0569	0.2684	0.0570	12:30:19	No
3	10.22	5.11	0.0569	0.2686	0.0571	12:31:03	No
Mean:	10.20	5.10	0.0568				

SD : 0.020 0.010 0.0001
 %RSD: 0.2 0.2 0.1979

=====
 Element: Hg Seq. No.: 12 AS Loc.: 20 Date: 04/03/2000
 Sample ID: 00-03-1187-1 MSD

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.13	5.07	0.0564	0.2664	0.0566	12:32:35	No
2	10.18	5.09	0.0567	0.2677	0.0569	12:33:19	No
3	10.18	5.09	0.0567	0.2677	0.0569	12:34:04	No
Mean:	10.17	5.08	0.0566				
SD :	0.031	0.015	0.0002				
%RSD:	0.3	0.3	0.2998				

=====
 Element: Hg Seq. No.: 13 AS Loc.: 21 Date: 04/03/2000
 Sample ID: 00-03-1187-1

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.07	-0.03	0.0000	0.0000	0.0001	12:35:35	No
2	-0.07	-0.04	0.0000	0.0004	0.0001	12:36:20	No
3	-0.07	-0.04	0.0000	0.0004	0.0001	12:37:04	No
Mean:	-0.07	-0.04	0.0000				
SD :	0.001	0.000	0.0000				
%RSD:	1.3	1.3	21.8626				

=====
 Element: Hg Seq. No.: 14 AS Loc.: 22 Date: 04/03/2000
 Sample ID: 000401 LCS1

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	827.5	4.96	0.0552	0.2628	0.0554	12:38:36	No
2	833.1	4.99	0.0556	0.2636	0.0557	12:39:20	No
3	836.9	5.01	0.0558	0.2642	0.0560	12:40:05	No
Mean:	832.5	4.99	0.0555				
SD :	4.691	0.028	0.0003				
%RSD:	0.6	0.6	0.5598				

=====
 Element: Hg Seq. No.: 15 AS Loc.: 23 Date: 04/03/2000
 Sample ID: 000401 MB1

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-6.41	-0.04	-0.0001	0.0000	0.0001	12:41:38	No
2	-6.02	-0.04	0.0000	0.0000	0.0001	12:42:23	No
3	-5.97	-0.04	0.0000	0.0006	0.0001	12:43:07	No
Mean:	-6.13	-0.04	0.0000				
SD :	0.245	0.001	0.0000				
%RSD:	4.0	4.0	41.4064				

=====
 Element: Hg Seq. No.: 16 AS Loc.: 24 Date: 04/03/2000
 Sample ID: 00-03-1187-16 MS

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1034	6.19	0.0689	0.3192	0.0690	12:44:41	No

2	1039	6.22	0.0692	0.3194	0.0694	12:45:26	No
3	1039	6.22	0.0693	0.3203	0.0694	12:46:10	No
Mean:	1038	6.21	0.0691				
SD :	3.012	0.018	0.0002				
%RSD:	0.3	0.3	0.2888				

=====
 Element: Hg Seq. No.: 17 AS Loc.: 25 Date: 04/03/2000
 Sample ID: 00-03-1187-16 MSD

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1033	6.19	0.0688	0.3188	0.0690	12:47:44	No
2	1034	6.19	0.0689	0.3195	0.0691	12:48:29	No
3	1040	6.23	0.0693	0.3207	0.0695	12:49:13	No
Mean:	1036	6.20	0.0690				
SD :	3.795	0.023	0.0003				
%RSD:	0.4	0.4	0.3644				

=====
 Element: Hg Seq. No.: 18 AS Loc.: 26 Date: 04/03/2000
 Sample ID: 00-03-1187-2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	94.97	0.57	0.0067	0.0303	0.0068	12:50:47	No
2	93.64	0.56	0.0066	0.0305	0.0067	12:51:32	No
3	93.91	0.56	0.0066	0.0307	0.0067	12:52:17	No
Mean:	94.17	0.56	0.0066				
SD :	0.705	0.004	0.0000				
%RSD:	0.7	0.7	0.7073				

=====
 Element: Hg Seq. No.: 19 AS Loc.: 3 Date: 04/03/2000
 Sample ID: ccv

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.08	2.08	0.0234	0.1105	0.0236	12:53:50	No
2	2.10	2.10	0.0236	0.1122	0.0238	12:54:35	No
3	2.11	2.11	0.0237	0.1134	0.0239	12:55:19	No
Mean:	2.10	2.10	0.0236				
SD :	0.015	0.015	0.0002				
%RSD:	0.7	0.7	0.7023				

QC value within specified limits.

=====
 Element: Hg Seq. No.: 20 AS Loc.: 6 Date: 04/03/2000
 Sample ID: ccb

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	-0.0001	-0.0001	0.0001	12:56:54	No
2	-0.03	-0.03	0.0000	0.0004	0.0001	12:57:38	No
3	-0.04	-0.04	0.0000	0.0002	0.0001	12:58:23	No
Mean:	-0.04	-0.04	0.0000				
SD :	0.002	0.002	0.0000				
%RSD:	6.7	6.7	65.6741				

QC value within specified limits.

=====
 Element: Hg Seq. No.: 21 AS Loc.: 27 Date: 04/03/2000

Sample ID: 00-03-1187-3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	31.32	0.19	0.0024	0.0116	0.0026	12:59:58	No
2	31.50	0.19	0.0025	0.0116	0.0026	01:00:43	No
3	31.86	0.19	0.0025	0.0120	0.0026	01:01:27	No
Mean:	31.56	0.19	0.0025				
SD :	0.274	0.002	0.0000				
%RSD:	0.9	0.9	0.7376				

=====
 Element: Hg Seq. No.: 22 AS Loc.: 28 Date: 04/03/2000
 Sample ID: 00-03-1187-4

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	35.83	0.21	0.0027	0.0128	0.0029	01:03:04	No
2	36.41	0.22	0.0028	0.0133	0.0029	01:03:48	No
3	36.22	0.22	0.0028	0.0133	0.0029	01:04:33	No
Mean:	36.15	0.22	0.0028				
SD :	0.297	0.002	0.0000				
%RSD:	0.8	0.8	0.7133				

=====
 Element: Hg Seq. No.: 23 AS Loc.: 29 Date: 04/03/2000
 Sample ID: 00-03-1187-5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	41.66	0.25	0.0031	0.0150	0.0033	01:06:08	No
2	41.77	0.25	0.0031	0.0151	0.0033	01:06:53	No
3	42.86	0.26	0.0032	0.0156	0.0034	01:07:37	No
Mean:	42.10	0.25	0.0032				
SD :	0.667	0.004	0.0000				
%RSD:	1.6	1.6	1.3997				

=====
 Element: Hg Seq. No.: 24 AS Loc.: 30 Date: 04/03/2000
 Sample ID: 00-03-1187-6

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	20.98	0.13	0.0018	0.0085	0.0019	01:09:14	No
2	21.03	0.13	0.0018	0.0088	0.0019	01:09:59	No
3	21.09	0.13	0.0018	0.0088	0.0019	01:10:43	No
Mean:	21.03	0.13	0.0018				
SD :	0.054	0.000	0.0000				
%RSD:	0.3	0.3	0.2047				

=====
 Element: Hg Seq. No.: 25 AS Loc.: 31 Date: 04/03/2000
 Sample ID: 00-03-1187-7

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	31.76	0.19	0.0025	0.0113	0.0026	01:12:20	No
2	32.15	0.19	0.0025	0.0117	0.0026	01:13:04	No
3	30.11	0.18	0.0024	0.0117	0.0025	01:13:49	No
Mean:	31.34	0.19	0.0024				
SD :	1.080	0.006	0.0001				
%RSD:	3.4	3.4	2.9286				

Element: Hg Seq. No.: 26 AS Loc.: 32 Date: 04/03/2000
Sample ID: 00-03-1187-8

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	58.82	0.35	0.0043	0.0202	0.0044	01:15:23	No
2	59.51	0.36	0.0043	0.0204	0.0045	01:16:07	No
3	59.00	0.35	0.0043	0.0203	0.0044	01:16:52	No
Mean:	59.11	0.35	0.0043				
SD :	0.355	0.002	0.0000				
%RSD:	0.6	0.6	0.5496				

Element: Hg Seq. No.: 27 AS Loc.: 33 Date: 04/03/2000
Sample ID: 00-03-1187-9

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	50.02	0.30	0.0037	0.0172	0.0038	01:18:21	No
2	50.19	0.30	0.0037	0.0173	0.0038	01:19:06	No
3	49.92	0.30	0.0037	0.0173	0.0038	01:19:50	No
Mean:	50.04	0.30	0.0037				
SD :	0.137	0.001	0.0000				
%RSD:	0.3	0.3	0.2466				

Element: Hg Seq. No.: 28 AS Loc.: 34 Date: 04/03/2000
Sample ID: 00-03-1187-10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	31.46	0.19	0.0025	0.0125	0.0026	01:21:19	No
2	31.75	0.19	0.0025	0.0127	0.0026	01:22:04	No
3	31.79	0.19	0.0025	0.0120	0.0026	01:22:49	No
Mean:	31.67	0.19	0.0025				
SD :	0.179	0.001	0.0000				
%RSD:	0.6	0.6	0.4799				

Element: Hg Seq. No.: 29 AS Loc.: 35 Date: 04/03/2000
Sample ID: 00-03-1187-11

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	43.13	0.26	0.0032	0.0155	0.0034	01:24:21	No
2	43.49	0.26	0.0032	0.0156	0.0034	01:25:05	No
3	43.44	0.26	0.0032	0.0156	0.0034	01:25:50	No
Mean:	43.35	0.26	0.0032				
SD :	0.193	0.001	0.0000				
%RSD:	0.4	0.4	0.3942				

Element: Hg Seq. No.: 30 AS Loc.: 36 Date: 04/03/2000
Sample ID: 00-03-1187-12

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	147.1	0.88	0.0101	0.0478	0.0103	01:27:21	No
2	148.5	0.89	0.0102	0.0483	0.0104	01:28:06	No
3	148.6	0.89	0.0102	0.0483	0.0104	01:28:50	No
Mean:	148.1	0.89	0.0102				
SD :	0.809	0.005	0.0001				
%RSD:	0.5	0.5	0.5269				

Element: Hg Seq. No.: 31 AS Loc.: 3 Date: 04/03/2000 137
 Sample ID: ccv

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.07	2.07	0.0233	0.1127	0.0235	01:30:22	No
2	2.09	2.09	0.0235	0.1133	0.0237	01:31:06	No
3	2.09	2.09	0.0235	0.1129	0.0236	01:31:51	No
Mean:	2.09	2.09	0.0234				
SD :	0.010	0.010	0.0001				
%RSD:	0.5	0.5	0.4768				

QC value within specified limits.

Element: Hg Seq. No.: 32 AS Loc.: 6 Date: 04/03/2000
 Sample ID: ccb

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	0.0000	0.0002	0.0001	01:33:26	No
2	-0.04	-0.04	0.0000	0.0002	0.0001	01:34:11	No
3	-0.03	-0.03	0.0000	0.0005	0.0001	01:34:55	No
Mean:	-0.04	-0.04	0.0000				
SD :	0.002	0.002	0.0000				
%RSD:	4.9	4.9	63.7514				

QC value within specified limits.

Element: Hg Seq. No.: 33 AS Loc.: 37 Date: 04/03/2000
 Sample ID: 00-03-1187-13

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	115.8	0.69	0.0080	0.0385	0.0082	01:36:29	No
2	116.2	0.70	0.0081	0.0384	0.0082	01:37:13	No
3	116.1	0.69	0.0081	0.0386	0.0082	01:37:58	No
Mean:	116.0	0.69	0.0081				
SD :	0.172	0.001	0.0000				
%RSD:	0.1	0.1	0.1412				

Element: Hg Seq. No.: 34 AS Loc.: 38 Date: 04/03/2000
 Sample ID: 00-03-1187-14

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	29.99	0.18	0.0024	0.0113	0.0025	01:39:29	No
2	29.73	0.18	0.0023	0.0114	0.0025	01:40:14	No
3	29.67	0.18	0.0023	0.0113	0.0025	01:40:58	No
Mean:	29.80	0.18	0.0023				
SD :	0.167	0.001	0.0000				
%RSD:	0.6	0.6	0.4738				

Element: Hg Seq. No.: 35 AS Loc.: 39 Date: 04/03/2000
 Sample ID: 00-03-1187-15

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	58.65	0.35	0.0043	0.0205	0.0044	01:42:32	No
2	59.24	0.35	0.0043	0.0206	0.0044	01:43:16	No
3	59.68	0.36	0.0043	0.0212	0.0045	01:44:01	No
Mean:	59.19	0.35	0.0043				

SD : 0.520 0.003 0.0000
 %RSD: 0.9 0.9 0.8031

=====
 Element: Hg Seq. No.: 36 AS Loc.: 40 Date: 04/03/2000
 Sample ID: 00-03-1187-16

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	63.49	0.38	0.0046	0.0221	0.0047	01:45:34	No
2	63.14	0.38	0.0046	0.0220	0.0047	01:46:19	No
3	63.24	0.38	0.0046	0.0221	0.0047	01:47:03	No
Mean:	63.29	0.38	0.0046				
SD :	0.182	0.001	0.0000				
%RSD:	0.3	0.3	0.2644				

=====
 Element: Hg Seq. No.: 37 AS Loc.: 41 Date: 04/03/2000
 Sample ID: 00-03-1187-17

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	156.0	0.93	0.0107	0.0512	0.0109	01:48:37	No
2	156.7	0.94	0.0108	0.0514	0.0109	01:49:21	No
3	157.3	0.94	0.0108	0.0516	0.0109	01:50:06	No
Mean:	156.7	0.94	0.0108				
SD :	0.666	0.004	0.0000				
%RSD:	0.4	0.4	0.4105				

=====
 Element: Hg Seq. No.: 38 AS Loc.: 3 Date: 04/03/2000
 Sample ID: ccv

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.09	2.09	0.0235	0.1141	0.0237	01:51:39	No
2	2.10	2.10	0.0236	0.1140	0.0237	01:52:24	No
3	2.08	2.08	0.0234	0.1133	0.0236	01:53:08	No
Mean:	2.09	2.09	0.0235				
SD :	0.007	0.007	0.0001				
%RSD:	0.4	0.4	0.3475				

QC value within specified limits.

=====
 Element: Hg Seq. No.: 39 AS Loc.: 6 Date: 04/03/2000
 Sample ID: ccb

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.03	-0.03	0.0000	0.0006	0.0001	01:54:43	No
2	-0.04	-0.04	0.0000	0.0005	0.0001	01:55:28	No
3	-0.04	-0.04	0.0000	0.0006	0.0001	01:56:12	No
Mean:	-0.04	-0.04	0.0000				
SD :	0.001	0.001	0.0000				
%RSD:	2.0	2.0	29.9397				

QC value within specified limits.

Element: Hg Seq. No.: 40 AS Loc.: 42 Date: 04/03/2000
Sample ID: 00-03-1138-1

Repl #	SampleConc $\mu\text{g/L}$	StndConc $\mu\text{g/L}$	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.01	0.0003	0.0022	0.0004	05:29:48	No
2	-0.02	-0.01	0.0003	0.0024	0.0004	05:30:33	No
3	-0.02	-0.01	0.0003	0.0027	0.0004	05:31:17	No
Mean:	-0.02	-0.01	0.0003				
SD :	0.001	0.001	0.0000				
%RSD:	5.8	5.8	2.4184				

Element: Hg Seq. No.: 41 AS Loc.: 43 Date: 04/03/2000
Sample ID: 000403 LCS1 ST

Repl #	SampleConc $\mu\text{g/L}$	StndConc $\mu\text{g/L}$	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	45.55	4.55	0.0508	0.2575	0.0509	05:32:52	No
2	45.62	4.56	0.0509	0.2561	0.0510	05:33:36	No

Element: Hg Seq. No.: 42 AS Loc.: 42 Date: 04/03/2000
Sample ID: 00-03-1138-1

Repl #	SampleConc $\mu\text{g/L}$	StndConc $\mu\text{g/L}$	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
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P.A.
 Sequence rerun from
 location # 42, because of
 a lower les from the previous run.
 B 4/3/00

Element: Hg Seq. No.: 42 AS Loc.: 42 Date: 04/03/2000
Sample ID: 00-03-1138-1

148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.01	0.0002	0.0018	0.0004	05:38:39	No
2	-0.02	-0.01	0.0002	0.0017	0.0004	05:39:23	No
3	-0.02	-0.01	0.0003	0.0023	0.0004	05:40:08	No
Mean:	-0.02	-0.01	0.0003				
SD :	0.004	0.002	0.0000				
%RSD:	19.5	19.5	8.3034				

Element: Hg Seq. No.: 43 AS Loc.: 43 Date: 04/03/2000
Sample ID: 000403 LCS1 ST

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	48.68	4.87	0.0542	0.2571	0.0544	05:41:42	No
2	49.09	4.91	0.0547	0.2573	0.0548	05:42:27	No
3	49.31	4.93	0.0549	0.2575	0.0551	05:43:11	No
Mean:	49.02	4.90	0.0546				
SD :	0.319	0.032	0.0004				
%RSD:	0.6	0.6	0.6456				

Element: Hg Seq. No.: 44 AS Loc.: 44 Date: 04/03/2000
Sample ID: 000403 MB1 ST

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.36	-0.04	0.0000	0.0001	0.0001	05:44:46	No
2	-0.36	-0.04	0.0000	0.0005	0.0001	05:45:31	No
3	-0.36	-0.04	0.0000	0.0005	0.0001	05:46:16	No
Mean:	-0.36	-0.04	0.0000				
SD :	0.001	0.000	0.0000				
%RSD:	0.3	0.3	3.8370				

Element: Hg Seq. No.: 45 AS Loc.: 45 Date: 04/03/2000
Sample ID: 00-03-1145-1 MS ST

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	46.43	4.64	0.0518	0.2462	0.0519	05:47:51	No
2	46.74	4.67	0.0521	0.2468	0.0522	05:48:36	No
3	46.57	4.66	0.0519	0.2462	0.0521	05:49:21	No
Mean:	46.58	4.66	0.0519				
SD :	0.155	0.016	0.0002				
%RSD:	0.3	0.3	0.3314				

Element: Hg Seq. No.: 46 AS Loc.: 46 Date: 04/03/2000
Sample ID: 00-03-1145-1 MSD ST

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	47.01	4.70	0.0524	0.2485	0.0525	05:50:56	No
2	47.04	4.70	0.0524	0.2477	0.0526	05:51:41	No
3	46.91	4.69	0.0523	0.2479	0.0524	05:52:25	No
Mean:	46.99	4.70	0.0524				
SD :	0.071	0.007	0.0001				
%RSD:	0.2	0.2	0.1503				

Element: Hg Seq. No.: 47 AS Loc.: 47 Date: 04/03/2000
Sample ID: 00-03-1145-1 ST

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.05	-0.01	0.0003	0.0016	0.0005	05:54:01	No
2	0.02	0.00	0.0004	0.0031	0.0005	05:54:45	No
3	0.02	0.00	0.0004	0.0022	0.0005	05:55:30	No
Mean:	0.00	0.00	0.0004				
SD :	0.042	0.004	0.0000				
%RSD:	1051	1051	12.7245				

Element: Hg Seq. No.: 48 AS Loc.: 48 Date: 04/03/2000
Sample ID: 00-03-1176-1 ST

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	53.01	5.30	0.0590	0.2777	0.0592	05:57:03	No
2	53.26	5.33	0.0593	0.2781	0.0595	05:57:48	No
3	53.32	5.33	0.0594	0.2775	0.0595	05:58:33	No
Mean:	53.20	5.32	0.0592				
SD :	0.165	0.017	0.0002				
%RSD:	0.3	0.3	0.3089				

Element: Hg Seq. No.: 49 AS Loc.: 49 Date: 04/03/2000
Sample ID: 00-03-0985-1 ST

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	24.33	2.43	0.0273	0.1274	0.0274	06:00:03	No
2	24.41	2.44	0.0274	0.1271	0.0275	06:00:47	No
3	24.42	2.44	0.0274	0.1274	0.0275	06:01:32	No
Mean:	24.38	2.44	0.0274				
SD :	0.051	0.005	0.0001				
%RSD:	0.2	0.2	0.2066				

Element: Hg Seq. No.: 50 AS Loc.: 50 Date: 04/03/2000
Sample ID: 00-03-1137-19

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.28	-0.03	0.0001	0.0004	0.0002	06:03:03	No
2	-0.27	-0.03	0.0001	0.0006	0.0002	06:03:47	No
3	-0.26	-0.03	0.0001	0.0008	0.0002	06:04:32	No
Mean:	-0.27	-0.03	0.0001				
SD :	0.009	0.001	0.0000				
%RSD:	3.4	3.4	14.5093				

Element: Hg Seq. No.: 51 AS Loc.: 51 Date: 04/03/2000
Sample ID: 00-03-1137-20

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.33	-0.02	0.0001	0.0010	0.0003	06:06:03	No
2	-0.28	-0.02	0.0002	0.0011	0.0003	06:06:48	No
3	-0.28	-0.02	0.0002	0.0012	0.0003	06:07:32	No
Mean:	-0.30	-0.02	0.0001				
SD :	0.028	0.002	0.0000				
%RSD:	9.4	9.4	13.9449				

=====
Element: Hg Seq. No.: 52 AS Loc.: 3 Date: 04/03/2000 142
Sample ID: ccv

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.00	2.00	0.0225	0.1047	0.0227	06:09:05	No
2	2.02	2.02	0.0227	0.1046	0.0228	06:09:49	No
3	2.01	2.01	0.0226	0.1048	0.0227	06:10:34	No
Mean:	2.01	2.01	0.0226				
SD :	0.007	0.007	0.0001				
%RSD:	0.3	0.3	0.3257				

QC value within specified limits.

=====
Element: Hg Seq. No.: 53 AS Loc.: 6 Date: 04/03/2000
Sample ID: ccb

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	0.0000	0.0000	0.0001	06:12:08	No
2	-0.04	-0.04	0.0000	-0.0001	0.0001	06:12:53	No
3	-0.04	-0.04	-0.0001	-0.0003	0.0001	06:13:37	No
Mean:	-0.04	-0.04	-0.0001				
SD :	0.001	0.001	0.0000				
%RSD:	2.8	2.8	22.4691				

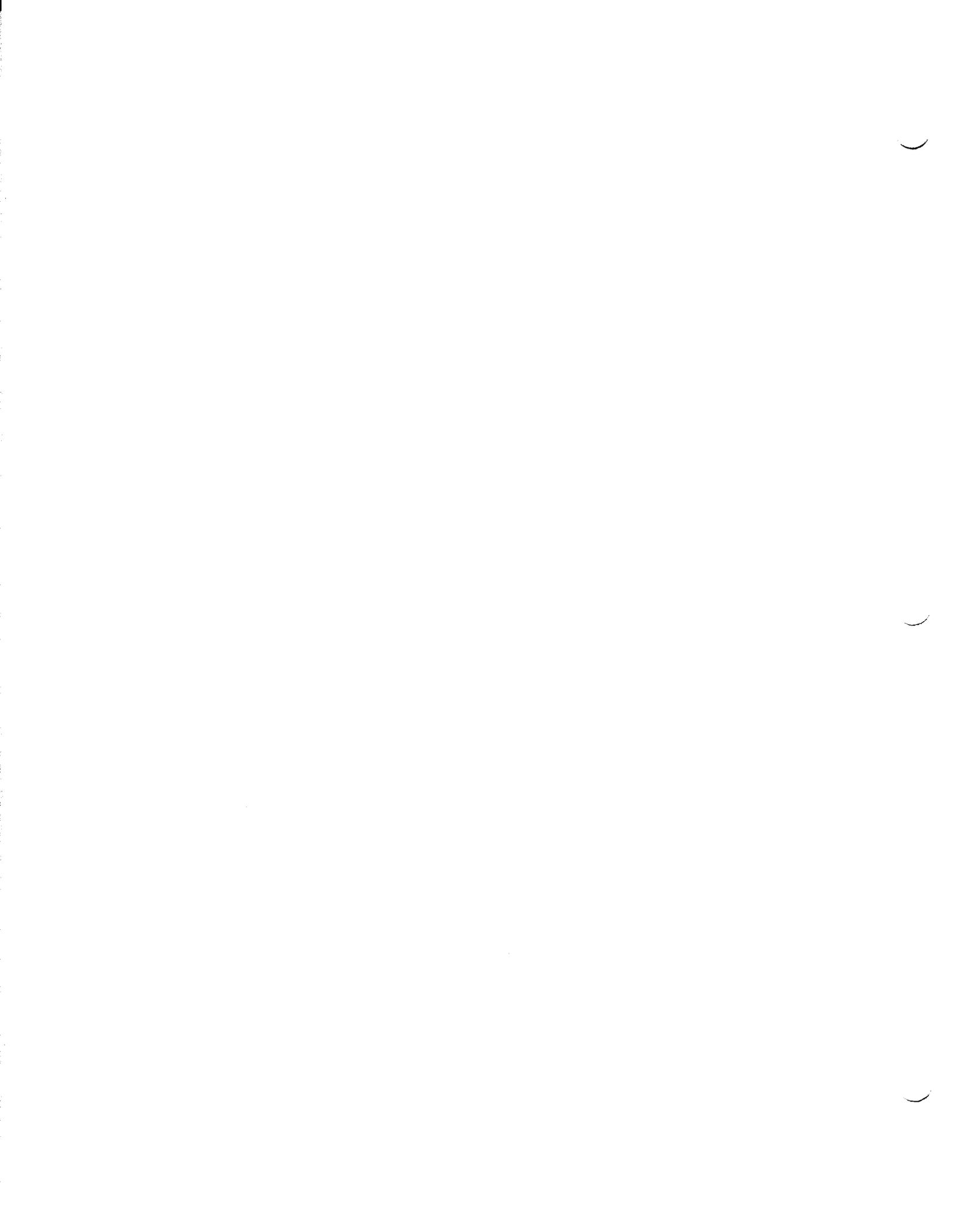
QC value within specified limits.





**Pesticides/PCBs (EPA 8081A/8082)
Raw Data**

Geomatrix Consultants





Initial Calibration Raw Data

Geomatrix Consultants

Calculation for PCB Initial Calibration, GC-17, PCB0330.MTH

Levels (ppb)	Arochlor 1016							Arochlor 1260							
	100	200	500	1000	2000	100	200	500	1000	2000	100	200	500	1000	2000
1016 (1)	6741	11736	39049	67543	121935	1260 (1)	14271	27768	76233	130513	240562				
1016 (2)	18138	36117	89496	153865	267750	1260 (2)	24473	45903	119030	195401	350575				
1016 (3)	23118	45201	122148	206634	369821	1260 (3)	27146	50250	130093	212181	377607				
1016 (4)	12149	23683	60197	102451	187942	1260 (4)	20103	37900	101921	170201	312749				
1016 (5)	8760	16097	41263	70442	126837	1260 (5)	18161	33896	89735	148533	272088				
1016 (6)	11713	23486	66618	112701	208055	1260 (6)	8673	16183	48273	76706	150222				
1016 (7)	2926	9673	30511	53659	102820	1260 (7)	19486	35740	105552	173340	331225				
Total Area	83545	165993	449282	767295	1385160		132313	247640	670837	1106875	2035028				
RF	8.35E+02	8.30E+02	8.99E+02	7.67E+02	6.93E+02		1.32E+03	1.24E+03	1.34E+03	1.11E+03	1.02E+03				
Ave RF	805						1205								
%RSD	9.70						11.62								

RF (mid point,500ppb)	Arochlor1221	1232	1242	1248	1254	1262
	246	440	650	780	1069	1137

Run Date: 3/30/2000
 Data Path: ... \000330

COPY

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=====
Data File Name   : G:\HPCHEM\2\DATA\000328\042F0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : PCB-100 S110499D
Run Time Bar Code:
Acquired on    : 30 Mar 00  00:07 AM
Report Created on: 30 Mar 00  09:31 AM

Page Number     : 1
Vial Number     : 42
Injection Number: 1
Sequence Line   : 1
Instrument Method: 8081.MTH
Analysis Method : PCB.MTH

```

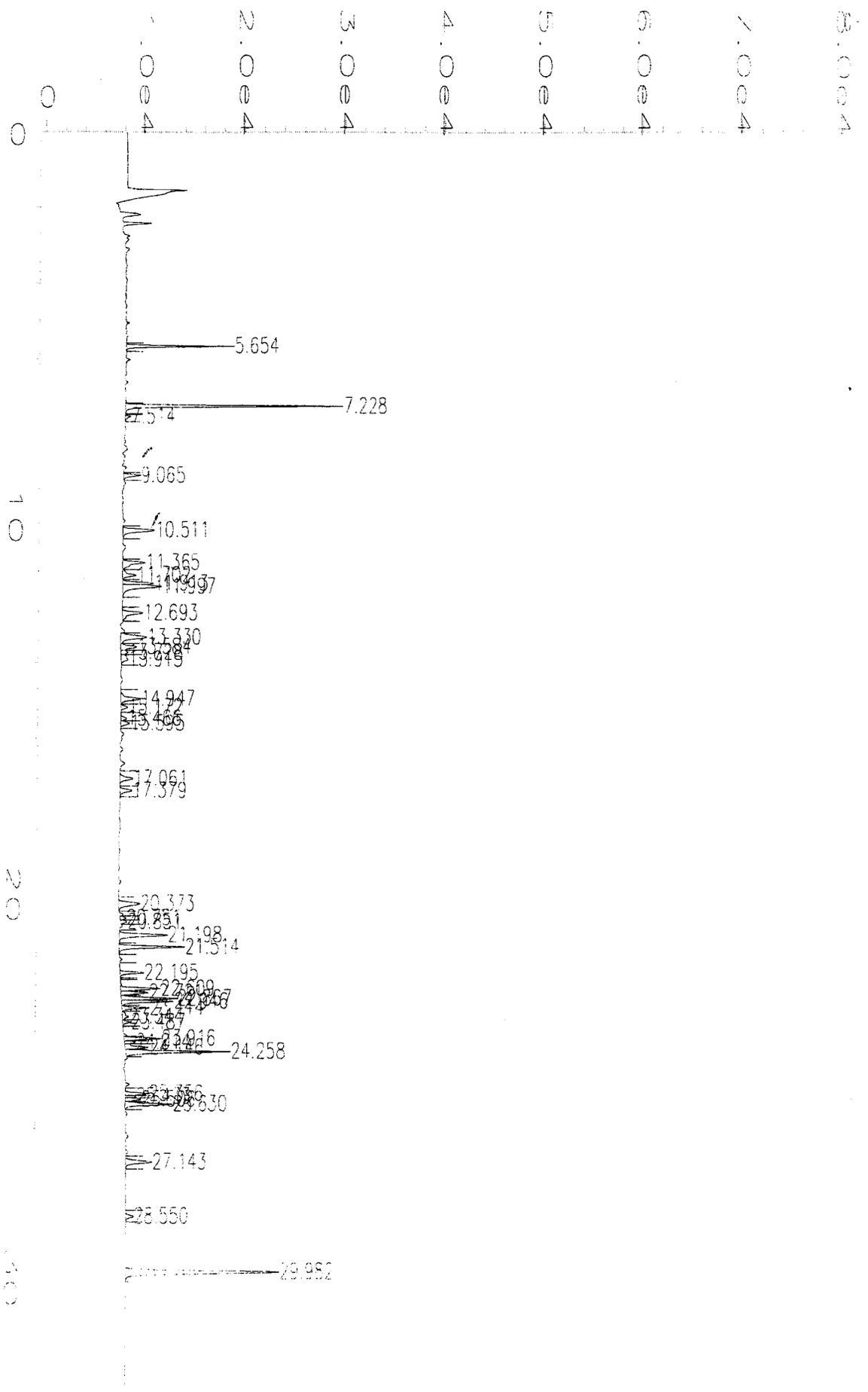
Sig. 1 in G:\HPCHEM\2\DATA\000328\042F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.654	28773	10897	BV	0.040	4.5734
2	7.228	64653	21850	BB	0.045	10.2764
3	7.514	2088	544	BB	0.055	0.3319
4	9.065	6747	1750	BV	0.058	1.0715
5	10.511	18138	3204	BB	0.089	2.8830
6	11.365	13283	2287	BV	0.084	2.1113
7	11.702	7528	1378	VV	0.080	1.1966
8	11.913	13011	3107	VV	0.064	2.0681
9	11.997	23118	3903	VB	0.086	3.6746
10	12.693	12149	2108	BB	0.086	1.9310
11	13.330	18177	2648	VV	0.107	2.8892
12	13.584	8760	1600	VV	0.083	1.3923
13	13.728	3903	741	VV	0.077	0.6204
14	13.915	6352	725	VB	0.119	1.0097
15	14.947	11713	1997	BV	0.088	1.8617
16	15.172	3602	718	VB	0.078	0.5725
17	15.466	2926	605	BV	0.076	0.4650
18	15.595	4994	946	VB	0.081	0.7937
19	17.061	8218	1352	BB	0.092	1.3063
20	17.379	6881	1238	BB	0.087	1.0937
21	20.373	14277	2159	BV	0.107	2.2684
22	20.751	2789	649	VV	0.065	0.4433
23	20.851	2730	674	VV	0.064	0.4340
24	21.198	24473	4890	BB	0.077	3.8899
25	21.514	27146	6620	BB	0.063	4.3148
26	22.195	8684	2420	BB	0.056	1.3803
27	22.609	14613	4023	BV	0.055	2.3226
28	22.721	10077	2787	VV	0.055	1.6017
29	22.867	20103	5611	VV	0.054	3.1953
30	22.946	18167	5242	VV	0.052	2.8866
31	23.114	9372	2787	VV	0.051	1.4896
32	23.344	4315	635	VV	0.092	0.6858
33	23.487	2999	813	VB	0.056	0.4767
34	23.916	12448	3741	VV	0.052	1.9786
35	24.014	4217	1102	VV	0.057	0.6702
36	24.146	9232	2372	VV	0.059	1.4674

38	25.356	8673	2327	BV	0.057	1.3786 ¹⁴⁷
39	25.433	3203	1063	VV	0.044	0.5092
40	25.506	6197	1592	VV	0.059	0.9850
41	25.630	19486	4765	VV	0.063	3.0972
42	27.143	13664	2625	BB	0.079	2.1718
43	28.550	3730	790	BB	0.074	0.5929
44	29.982	84333	15379	BB	0.085	13.4044

Total area = 629144

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01010702082200328\042F0101.D

=====
 Data File Name : G:\HPCHEM\2\DATA\000328\041F0101.D
 Operator : GC-17 Page Number : 1
 Instrument : GC 17 ECD Vial Number : 41
 Sample Name : PCB-200 S110499C Injection Number : 1
 Run Time Bar Code: Sequence Line : 1
 Acquired on : 29 Mar 00 11:30 PM Instrument Method: 8081.MTH
 Report Created on: 30 Mar 00 09:31 AM Analysis Method : PCB.MTH

Sig. 1 in G:\HPCHEM\2\DATA\000328\041F0101.D

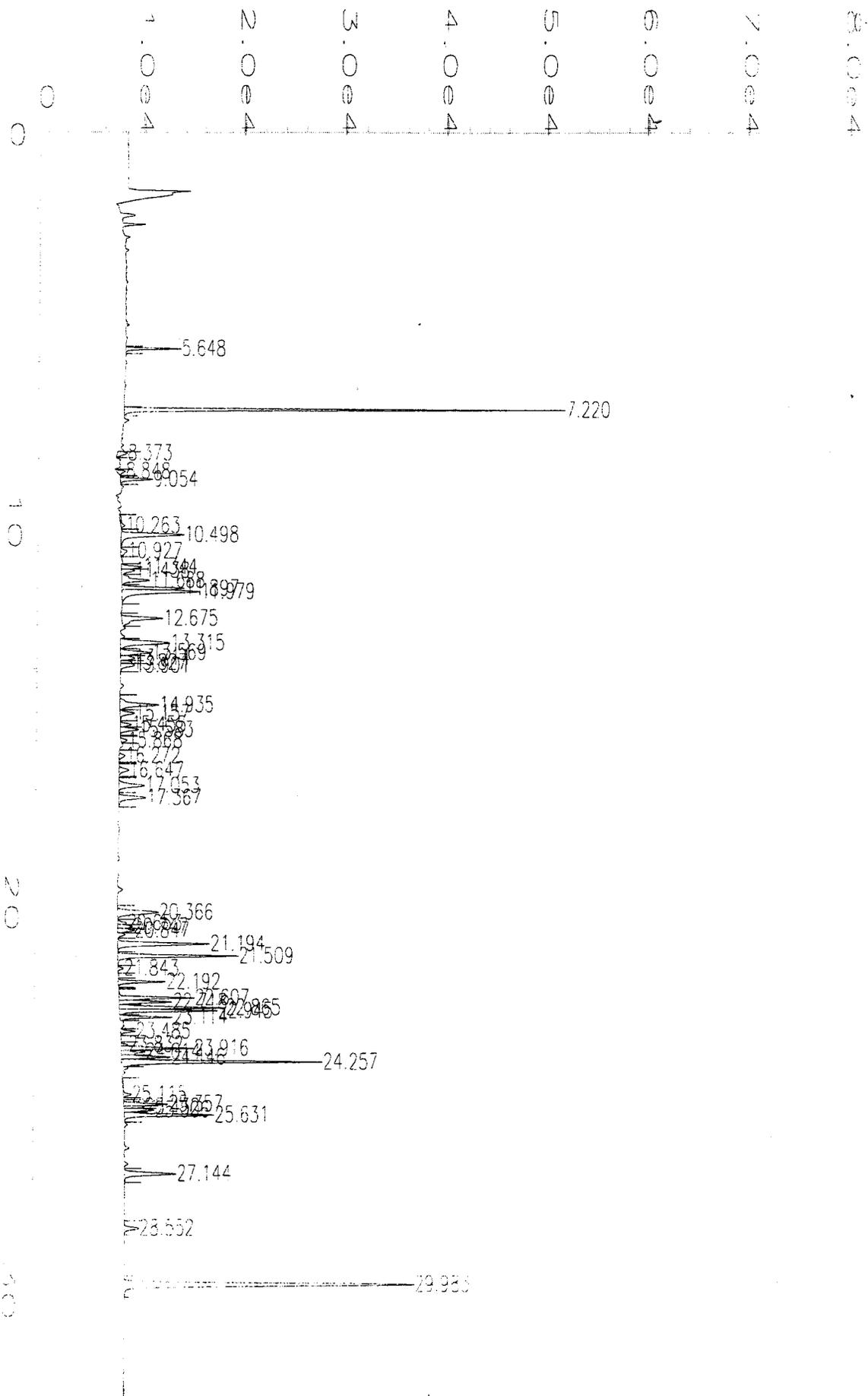
Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.648	14482	5532	BB	0.040	1.2073
2	7.220	128579	43904	BB	0.044	10.7189
3	8.373	5245	1002	VV	0.072	0.4372
4	8.848	3920	909	PB	0.063	0.3268
5	9.054	11736	3277	BV	0.055	0.9783
6	10.263	3170	422	PB	0.103	0.2643
7	10.498	36117	6249	BV	0.090	3.0109
8	10.927	4370	652	PV	0.095	0.3643
9	11.344	9325	2153	VV	0.066	0.7774
10	11.438	6332	1311	VV	0.072	0.5279
11	11.688	15980	2816	VV	0.083	1.3321
12	11.897	25136	6197	VV	0.062	2.0955
13	11.979	45201	7768	VB	0.084	3.7682
14	12.675	23683	4141	BV	0.085	1.9743
15	13.315	32887	4940	VV	0.106	2.7416
16	13.569	16097	3083	VV	0.079	1.3420
17	13.714	7543	1419	VV	0.079	0.6288
18	13.827	4626	1148	VV	0.067	0.3856
19	13.901	7566	1426	VB	0.079	0.6307
20	14.935	23486	3906	BV	0.090	1.9579
21	15.157	7987	1459	VB	0.083	0.6659
22	15.455	5308	1115	BV	0.075	0.4425
23	15.583	9673	1858	VB	0.080	0.8064
24	15.868	2860	645	BV	0.071	0.2384
25	16.272	3491	601	BB	0.089	0.2910
26	16.647	5986	970	BB	0.095	0.4990
27	17.053	15999	2591	BV	0.095	1.3337
28	17.367	16269	2750	PB	0.091	1.3562
29	20.366	27768	4124	BV	0.109	2.3148
30	20.653	3886	919	VV	0.064	0.3240
31	20.747	6890	1525	VV	0.068	0.5744
32	20.847	7854	1681	VV	0.071	0.6547
33	21.194	45903	9198	VV	0.075	3.8266
34	21.509	50250	12019	PV	0.064	4.1890
35	21.843	2098	563	VB	0.058	0.1749
36	22.192	16680	4749	BB	0.054	1.3905

38	22.718	19555	5303	VV	0.056	1.6302150
39	22.865	37900	10579	VV	0.054	3.1595
40	22.945	33896	9813	VV	0.052	2.8257
41	23.114	17600	5238	VV	0.052	1.4672
42	23.485	4977	1480	VB	0.052	0.4149
43	23.832	1887	685	BV	0.046	0.1573
44	23.916	24738	7221	VV	0.053	2.0623
45	24.014	11723	2374	VV	0.070	0.9773
46	24.146	17736	4873	VV	0.055	1.4786
47	24.257	79497	20007	VV	0.059	6.6272
48	25.115	4121	809	PB	0.075	0.3435
49	25.357	16183	4420	BV	0.056	1.3491
50	25.432	6264	2048	VV	0.051	0.5222
51	25.506	11433	3023	VV	0.057	0.9531
52	25.631	35740	9017	VV	0.061	2.9794
53	27.144	26980	5165	BB	0.080	2.2492
54	28.552	7002	1480	BB	0.074	0.5837
55	29.983	160928	28773	BB	0.088	13.4157

247640

Total area = 1199554

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Data File Name   : G:\HPCHEM\2\DATA\000328\040F0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 40
Sample Name     : PCB-500 S110199A                   Injection Number : 1
Run Time Bar Code:                                   Sequence Line   : 1
Acquired on    : 29 Mar 00  10:53 PM                 Instrument Method: 8081.MTH
Report Created on: 30 Mar 00  09:30 AM                Analysis Method  : PCB.MTH
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Sig. 1 in G:\HPCHEM\2\DATA\000328\040F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.646	41475	15659	BV	0.040	1.2316
2	6.008	1631	559	BB	0.044	0.0484
3	7.216	348411	117434	BV	0.045	10.3457
4	8.169	4243	1155	VV	0.055	0.1260
5	8.312	3491	1287	VV	0.042	0.1037
6	8.368	8044	2056	VB	0.057	0.2388
7	8.839	8693	2222	BV	0.059	0.2581
8	9.052	39049	10133	PV	0.058	1.1595
9	10.267	6236	449282	BV	0.066	0.1852
10	10.499	89496	16089	PB	0.088	2.6575
11	10.927	9996	1548	BV	0.091	0.2968
12	11.351	68244	11311	VV	0.087	2.0264
13	11.595	8418	2194	VV	0.058	0.2500
14	11.691	34911	7598	VV	0.070	1.0367
15	11.891	68283	17345	VV	0.060	2.0276
16	11.974	122148	21937	VB	0.081	3.6271
17	12.673	60197	12389	BV	0.074	1.7875
18	12.795	9895	2180	VV	0.067	0.2938
19	12.948	7737	1582	VV	0.075	0.2297
20	13.156	8002	1813	VV	0.069	0.2376
21	13.312	87335	12401	VV	0.113	2.5933
22	13.572	41263	8034	VV	0.078	1.2253
23	13.719	20012	3783	VV	0.079	0.5942
24	13.835	11823	3038	VV	0.065	0.3511
25	13.907	20776	3924	VB	0.079	0.6169
26	14.444	5114	1052	BB	0.076	0.1519
27	14.940	66618	10565	BV	0.093	1.9781
28	15.163	24282	4358	VV	0.084	0.7210
29	15.459	16268	3261	VV	0.077	0.4831
30	15.587	30511	5625	VV	0.083	0.9060
31	15.874	12651	2329	VV	0.082	0.3757
32	15.994	6573	1197	VV	0.082	0.1952
33	16.271	10134	1816	PB	0.086	0.3009
34	16.650	17876	2749	BV	0.101	0.5308
35	17.059	44019	7065	PV	0.094	1.3071
36	17.371	46201	7693	VB	0.092	1.3719

38	19.784	8335	1469	BB	0.089	0.2475 ¹⁵³
39	20.368	76233	11274	BV	0.108	2.2637
40	20.654	11519	2703	VV	0.065	0.3421
41	20.748	19610	4208	VV	0.070	0.5823
42	20.848	21972	4564	VV	0.073	0.6524
43	20.954	10923	2308	VV	0.071	0.3243
44	21.194	119030	23557	VV	0.077	3.5345
45	21.508	130093	30945	VV	0.064	3.8630
46	21.843	6568	1668	PV	0.060	0.1950
47	22.191	47033	13546	VB	0.053	1.3966
48	22.606	69951	19410	VV	0.055	2.0771
49	22.717	54100	15079	VV	0.054	1.6064
50	22.863	101921	28446	VV	0.054	3.0265
51	22.943	89735	25266	VV	0.053	2.6646
52	23.112	47868	14287	VV	0.051	1.4214
53	23.239	4432	1008	VV	0.064	0.1316
54	23.484	14556	4280	VV	0.052	0.4322
55	23.830	6146	1965	VV	0.047	0.1825
56	23.913	66445	19497	VV	0.052	1.9730
57	24.010	34723	6700	VV	0.073	1.0311
58	24.144	47194	13253	VV	0.054	1.4014
59	24.254	217357	55234	VV	0.059	6.4542
60	24.546	3356	755	VB	0.066	0.0996
61	25.112	14935	2529	BV	0.084	0.4435
62	25.354	48273	12651	VV	0.058	1.4334
63	25.428	20149	6508	VV	0.052	0.5983
64	25.504	35193	9119	VV	0.058	1.0450
65	25.626	105552	26068	VV	0.062	3.1343
66	25.878	6507	1209	PB	0.077	0.1932
67	26.473	5359	1345	BB	0.063	0.1591
68	26.881	4209	1040	BV	0.063	0.1250
69	27.139	77394	15069	PB	0.077	2.2981
70	28.546	20007	4251	BB	0.074	0.5941
71	29.974	407832	71924	BB	0.088	12.1102

670837

Total area = 3367686

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0	0	0	0	0	0	0	0

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7.216

0

8.369

8.839 ————— 9.052

10.267 ————— 10.499

10.927

11.595 11.691 11.351

11.891 11.974

12.705 ————— 12.673

13.436 ————— 13.312

13.909 ————— 13.572

14.444

15.483 ————— 14.940

15.987

16.271

16.650

17.059

17.371

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18.976

19.784

20.368

21.194 ————— 21.508

21.843 ————— 22.191

22.712 22.606

23.112 ————— 22.943 23.863

23.484

23.836 24.010 ————— 23.913

24.546 ————— 24.254

25.112 ————— 25.354

25.626

25.878

26.473

26.881 ————— 27.139

28.546

0

Data File Name : G:\HPCHEM\2\DATA\000328\039F0101.D
 Operator : GC-17 Page Number : 1
 Instrument : GC 17 ECD Vial Number : 39
 Sample Name : PCB-1K S110499B Injection Number : 1
 Run Time Bar Code: Sequence Line : 1
 Acquired on : 29 Mar 00 10:16 PM Instrument Method: 8081.MTH
 Report Created on: 30 Mar 00 09:30 AM Analysis Method : PCB.MTH

Sig. 1 in G:\HPCHEM\2\DATA\000328\039F0101.D

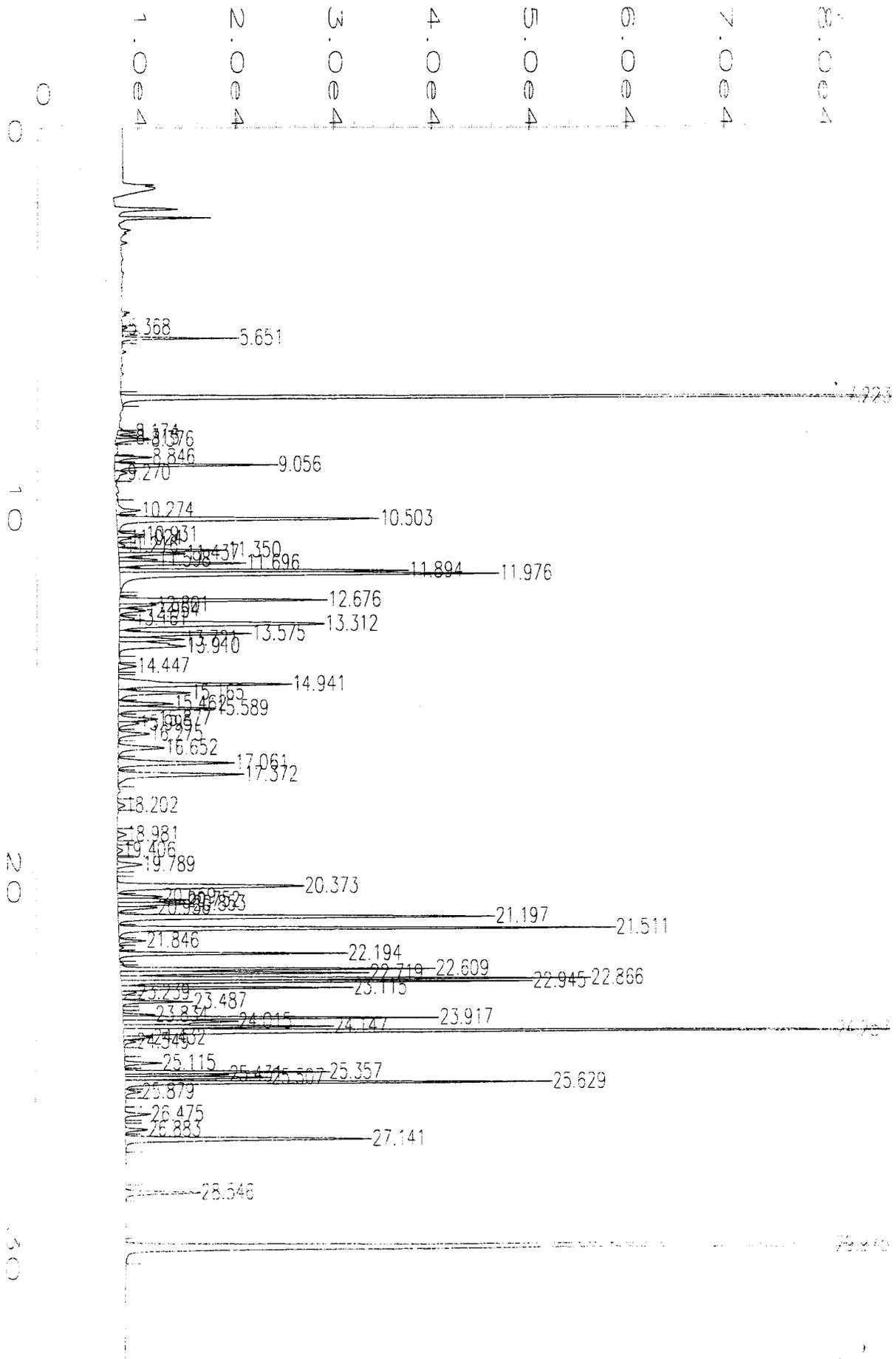
Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.368	1717	580	BB	0.045	0.0307
2	5.651	31963	12154	BV	0.040	0.5725
3	7.223	563998	190231	BV	0.045	10.1015
4	8.174	7086	1841	VV	0.058	0.1269
5	8.313	6076	2017	VV	0.045	0.1088
6	8.376	14649	3656	VV	0.059	0.2624
7	8.846	16788	3908	BV	0.063	0.3007
8	9.056	67543	767295	VV	0.060	1.2097
9	9.270	10094	1314	VV	0.103	0.1808
10	10.274	16515	2581	VV	0.090	0.2958
11	10.503	153865	26951	VV	0.090	2.7558
12	10.931	12909	2875	VV	0.068	0.2312
13	11.024	5440	1221	VV	0.065	0.0974
14	11.216	3275	729	VV	0.068	0.0587
15	11.350	46976	11224	VV	0.064	0.8414
16	11.437	30849	6955	VV	0.066	0.5525
17	11.598	15908	4035	VV	0.060	0.2849
18	11.696	60275	13116	VV	0.070	1.0796
19	11.894	117171	29678	VV	0.060	2.0986
20	11.976	206634	38853	VB	0.077	3.7009
21	12.676	102451	21375	BV	0.074	1.8350
22	12.801	17683	3815	VV	0.069	0.3167
23	12.954	13831	2771	VV	0.077	0.2477
24	13.161	6614	1591	VV	0.064	0.1185
25	13.312	149053	21103	VV	0.113	2.6696
26	13.575	70442	13693	VV	0.079	1.2617
27	13.721	35497	6782	VV	0.078	0.6358
28	13.910	57955	6969	VB	0.114	1.0380
29	14.447	9207	1879	VB	0.076	0.1649
30	14.941	112701	17871	BV	0.093	2.0185
31	15.165	42330	7513	VV	0.085	0.7582
32	15.462	28282	5720	VV	0.076	0.5065
33	15.589	53659	10056	VV	0.081	0.9611
34	15.877	22902	4156	VV	0.083	0.4102
35	15.995	12279	2198	VV	0.084	0.2199
36	16.275	18848	3308	VV	0.087	0.3376

38	17.061	75474	12032	VV	0.094	1.3518156
39	17.372	78323	13016	VV	0.093	1.4028
40	18.202	4153	758	BB	0.088	0.0744
41	18.981	5533	955	BB	0.090	0.0991
42	19.406	3227	599	BB	0.084	0.0578
43	19.789	15031	2623	BB	0.090	0.2692
44	20.373	130513	19283	BV	0.110	2.3375
45	20.659	20376	4725	VV	0.066	0.3649
46	20.752	33608	7162	VV	0.070	0.6019
47	20.853	37039	7726	VV	0.072	0.6634
48	20.956	19232	4118	VV	0.070	0.3444
49	21.197	195401	38669	VV	0.077	3.4997
50	21.511	212181	51045	VV	0.063	3.8003
51	21.846	10861	2836	VV	0.059	0.1945
52	22.194	81459	23482	VV	0.053	1.4590
53	22.609	115588	32431	VV	0.054	2:0702
54	22.719	93154	25611	VV	0.055	1.6684
55	22.866	170201	48227	VV	0.053	3.0484
56	22.945	148533	42267	VV	0.052	2.6603
57	23.115	80675	23912	VV	0.052	1.4449
58	23.239	6420	1613	VV	0.058	0.1150
59	23.487	24175	7343	VB	0.051	0.4330
60	23.834	9256	3340	BV	0.046	0.1658
61	23.917	111514	32434	VV	0.053	1.9973
62	24.015	60904	11901	VV	0.072	1.0908
63	24.147	78582	21622	VV	0.055	1.4074
64	24.257	366201	94125	VV	0.057	6.5588
65	24.432	11954	3036	VV	0.059	0.2141
66	24.549	5402	1302	VV	0.062	0.0968
67	25.115	14767	3918	BV	0.059	0.2645
68	25.357	76706	21090	PV	0.056	1.3738
69	25.431	33694	10752	VV	0.046	0.6035
70	25.507	56935	15004	VV	0.057	1.0197
71	25.629	173340	43874	VV	0.061	3.1046
72	25.879	7074	1682	VB	0.064	0.1267
73	26.475	10918	2682	BB	0.064	0.1956
74	26.883	9568	2356	BV	0.064	0.1714
75	27.141	135479	25380	PB	0.083	2.4265
76	28.546	36581	7757	BB	0.073	0.6552
77	29.975	647222	113117	BB	0.089	11.5920

1106875

Total area = 5583330

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Data File Name   : G:\HPCHEM\2\DATA\000328\038F0101.D
Operator        : GC-17                               Page Number     : 1
Instrument       : GC 17 ECD                           Vial Number      : 38
Sample Name     : PCB-2K S110499A                     Injection Number : 1
Run Time Bar Code:                                     Sequence Line    : 1
Acquired on    : 29 Mar 00  09:38 PM                 Instrument Method: 8081.MTH
Report Created on: 30 Mar 00  09:30 AM                 Analysis Method  : PCB.MTH
    
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Sig. 1 in G:\HPCHEM\2\DATA\000328\038F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.361	2415	918	BB	0.040	0.0231
2	5.644	49729	18828	BV	0.040	0.4758
3	6.006	2733	938	BB	0.044	0.0261
4	7.213	1101827	365343	VV	0.046	10.5432
5	7.499	6481	1408	VB	0.064	0.0620
6	8.074	3316	1095	BV	0.047	0.0317
7	8.165	13841	3681	VV	0.056	0.1324
8	8.303	12665	4480	VV	0.043	0.1212
9	8.364	25806	6878	VV	0.056	0.2469
10	8.537	2372	706	PV	0.052	0.0227
11	8.833	29571	7518	PV	0.059	0.2830
12	9.044	<u>121935</u>	31769	VV	0.058	1.1668
13	9.259	11409	2194	VV	0.074	0.1092
14	10.262	23049	4798	BV	0.071	0.2206
15	10.489	<u>267750</u>	47819	VV	0.088	2.5621
16	10.917	21973	5291	VV	0.064	0.2103
17	11.013	9287	2144	VV	0.065	0.0889
18	11.200	4947	1258	VV	0.062	0.0473
19	11.336	93864	22246	VV	0.064	0.8982
20	11.422	57439	13330	VV	0.063	0.5496
21	11.582	30860	7842	VV	0.060	0.2953
22	11.681	110380	24190	VV	0.069	1.0562
23	11.877	212979	54530	VV	0.060	2.0380
24	11.961	<u>369824</u>	71166	VB	0.076	3.5388
25	12.660	<u>187942</u>	39831	BV	0.072	1.7984
26	12.786	33571	7340	VV	0.068	0.3212
27	12.942	29002	5823	VV	0.076	0.2775
28	13.149	11907	2861	VV	0.065	0.1139
29	13.292	273297	38169	VV	0.115	2.6151
30	13.561	<u>126837</u>	25266	VV	0.076	1.2137
31	13.707	66146	12525	VV	0.079	0.6329
32	13.830	37629	9949	VV	0.063	0.3601
33	13.896	70565	12922	VV	0.080	0.6752
34	14.435	18008	3614	VB	0.077	0.1723
35	14.928	<u>208055</u>	32745	BV	0.094	1.9908
36	15.153	79347	14033	VV	0.086	0.7593

1395160

38	15.576	<u>102820</u>	19387	VV	0.081	0.9839
39	15.864	44524	8036	VV	0.083	0.4260
40	15.980	23539	4254	VV	0.083	0.2252
41	16.260	36514	6296	VV	0.089	0.3494
42	16.640	63400	9208	VV	0.107	0.6067
43	17.048	139521	21806	VV	0.096	1.3351
44	17.361	147355	24072	VV	0.094	1.4100
45	17.792	3543	619	VB	0.087	0.0339
46	18.188	9074	1534	BB	0.091	0.0868
47	18.970	10888	1857	BB	0.091	0.1042
48	19.394	6316	1131	BB	0.088	0.0604
49	19.776	29480	5099	BB	0.091	0.2821
50	20.363	<u>240562</u>	35106	VV	0.111	2.3019
51	20.650	39269	9103	VV	0.066	0.3758
52	20.743	62249	13236	VV	0.070	0.5957
53	20.844	67994	13994	VV	0.073	0.6506
54	20.946	36808	7826	VV	0.070	0.3522
55	21.190	<u>350575</u>	70841	VV	0.075	3.3546
56	21.502	<u>377607</u>	92019	VV	0.062	3.6133
57	21.840	20917	5435	VV	0.059	0.2002
58	22.025	3308	971	VV	0.053	0.0317
59	22.187	155527	44249	PV	0.054	1.4882
60	22.453	2541	795	VV	0.050	0.0243
61	22.603	208141	59100	VV	0.054	1.9917
62	22.713	173791	47503	VV	0.055	1.6630
63	22.860	<u>312749</u>	87764	VV	0.054	2.9927
64	22.941	<u>272088</u>	75931	VV	0.053	2.6036
65	23.110	149776	45189	VV	0.051	1.4332
66	23.233	13661	3060	VV	0.063	0.1307
67	23.483	47403	14662	VB	0.050	0.4536
68	23.830	17620	6327	BV	0.043	0.1686
69	23.912	208977	61180	VV	0.052	1.9997
70	24.009	120246	22757	VV	0.074	1.1506
71	24.142	144861	40534	VV	0.054	1.3862
72	24.252	681335	172982	VV	0.058	6.5196
73	24.428	22749	5795	VV	0.058	0.2177
74	24.545	9631	2449	VV	0.060	0.0922
75	25.113	30172	7828	BV	0.060	0.2887
76	25.354	<u>150222</u>	40364	VV	0.057	1.4375
77	25.429	66763	21510	VV	0.045	0.6388
78	25.504	113882	29417	VV	0.059	1.0897
79	25.626	<u>331225</u>	82708	VV	0.061	3.1695
80	25.877	14401	3427	VB	0.063	0.1378
81	26.477	17622	4421	BB	0.062	0.1686
82	26.884	12079	2941	BV	0.065	0.1156
83	27.143	269506	50884	PB	0.080	2.5789
84	28.549	69081	14486	BB	0.074	0.6610
85	29.977	1235582	215312	BB	0.088	11.8231

Total area = 1.04505E+007,


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Data File Name   : G:\HPCHEM\2\DATA\000328\043F0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 43
Sample Name     : PCB-ICV S012100A                   Injection Number : 1
Run Time Bar Code:                                   Sequence Line   : 1
Acquired on    : 30 Mar 00  00:44 AM                 Instrument Method: 8081.MTH
Report Created on: 30 Mar 00  09:31 AM                Analysis Method  : PCB.MTH
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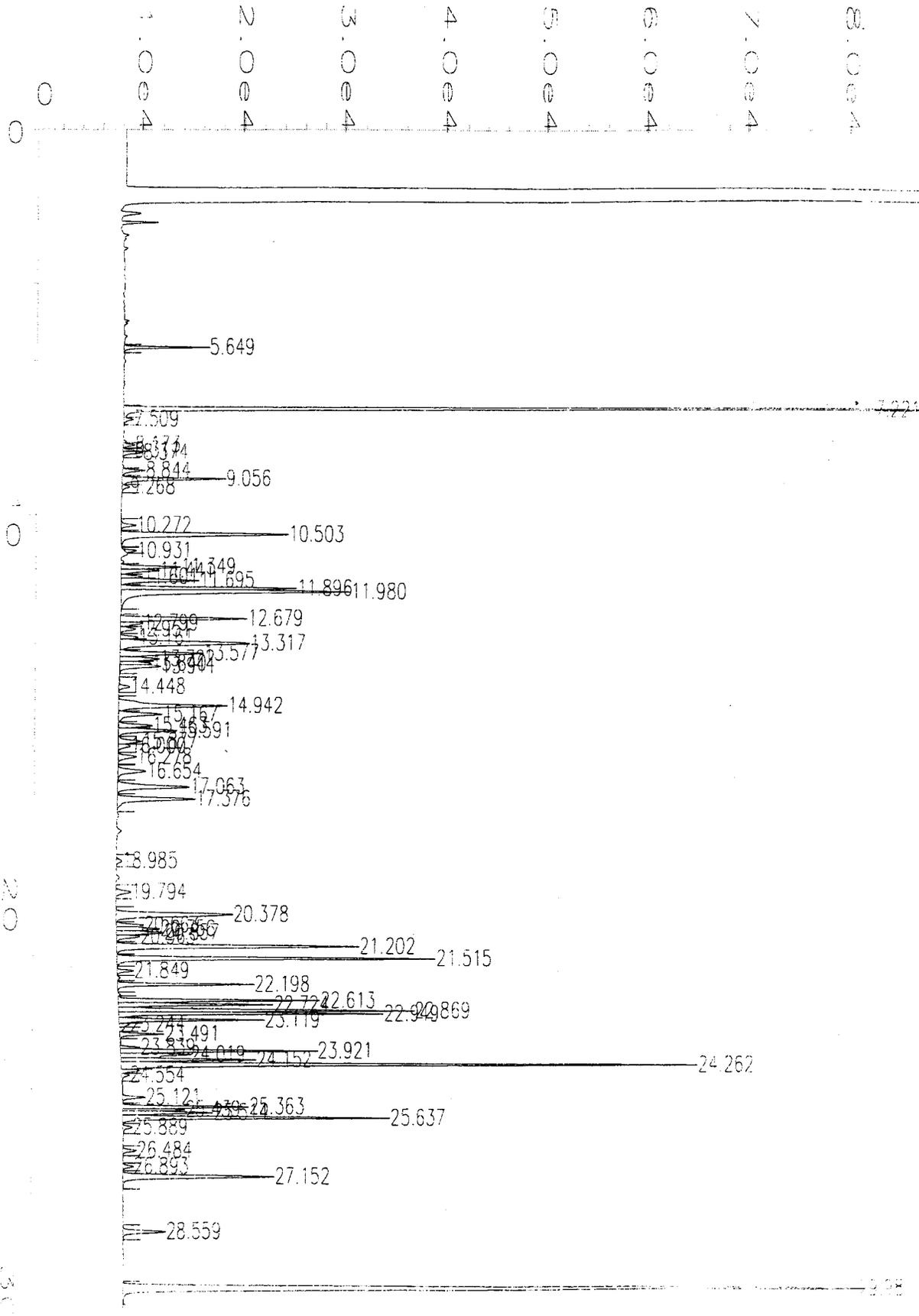
Sig. 1 in G:\HPCHEM\2\DATA\000328\043F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.649	22685	8585	BV	0.040	0.6691
2	7.221	362036	120907	BV	0.045	10.6783
3	7.509	3802	953	VB	0.058	0.1121
4	8.173	4438	1198	VV	0.055	0.1309
5	8.311	3155	1146	VV	0.042	0.0931
6	8.374	7443	1985	VV	0.056	0.2195
7	8.844	9294	2315	VV	0.060	0.2741
8	9.056	41811	10302	VV	0.061	1.2332
9	9.268	3591	765	VB	0.068	0.1059
10	10.272	6602	1512	BV	0.066	0.1947
11	10.503	92311	16561	PB	0.088	2.7227
12	10.931	4160	1203	BV	0.056	0.1227
13	11.349	24714	5945	VV	0.064	0.7289
14	11.441	17612	3839	VV	0.068	0.5195
15	11.601	8315	2193	VV	0.058	0.2452
16	11.695	35979	7772	VV	0.071	1.0612
17	11.896	69894	17385	VV	0.061	2.0615
18	11.980	126170	22697	VB	0.080	3.7214
19	12.679	61479	12570	BV	0.075	1.8133
20	12.799	10374	2235	VV	0.069	0.3060
21	12.951	7374	1526	VV	0.074	0.2175
22	13.161	7913	1794	PV	0.069	0.2334
23	13.317	89674	12835	VV	0.112	2.6450
24	13.577	42453	8285	VV	0.078	1.2522
25	13.722	20580	3942	VV	0.078	0.6070
26	13.840	12263	3100	VV	0.066	0.3617
27	13.911	21387	4073	VB	0.078	0.6308
28	14.448	5771	1102	BB	0.080	0.1702
29	14.942	68217	10796	BV	0.093	2.0121
30	15.167	25032	4397	VV	0.086	0.7383
31	15.463	16742	3376	VV	0.077	0.4938
32	15.591	31478	5790	VV	0.083	0.9285
33	15.877	12998	2361	VV	0.083	0.3834
34	16.000	6764	1219	VV	0.083	0.1995
35	16.278	10436	1841	VB	0.087	0.3078
36	16.654	18358	2836	BV	0.099	0.5415

38	17.376	46657	7736	VB	0.092	1.3762
39	18.985	3282	564	BB	0.090	0.0968
40	19.794	8532	1492	BB	0.090	0.2517
41	20.378	77957	11583	BV	0.110	2.2994
42	20.663	11635	2730	VV	0.065	0.3432
43	20.756	20179	4332	VV	0.069	0.5952
44	20.857	22271	4701	VV	0.072	0.6569
45	20.963	10788	2336	VV	0.069	0.3182
46	21.202	120828	24049	VV	0.077	3.5639
47	21.515	131588	31599	VV	0.064	3.8812
48	21.849	6333	1667	VV	0.059	0.1868
49	22.198	48234	13615	PV	0.055	1.4227
50	22.613	71466	19980	VV	0.054	2.1079
51	22.724	55549	15376	VV	0.054	1.6384
52	22.869	104566	29267	VV	0.054	3.0842
53	22.949	91930	26252	VV	0.052	2.7115
54	23.119	49196	14422	VV	0.052	1.4510
55	23.244	4611	1028	VV	0.065	0.1360
56	23.491	14897	4437	VV	0.051	0.4394
57	23.839	6307	1996	VV	0.053	0.1860
58	23.921	68708	19633	VV	0.054	2.0266
59	24.019	35214	6897	VV	0.072	1.0386
60	24.152	48737	13457	VV	0.055	1.4375
61	24.262	222478	57281	VV	0.057	6.5620
62	24.554	3510	792	VV	0.065	0.1035
63	25.121	9682	2299	VB	0.064	0.2856
64	25.363	46284	12515	BV	0.057	1.3652
65	25.439	19398	6213	VV	0.052	0.5721
66	25.514	33727	8953	VV	0.057	0.9948
67	25.637	104119	26458	VV	0.060	3.0710
68	25.889	4186	972	PB	0.065	0.1235
69	26.484	5533	1375	BB	0.063	0.1632
70	26.893	4182	1043	BV	0.063	0.1234
71	27.152	79741	15046	PB	0.081	2.3520
72	28.559	20484	4248	BB	0.076	0.6042
73	29.987	419044	73310	BB	0.090	12.3598

Total area = 3390380

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GC-17, Calculation of Initial Calibrator, Pest0330F.mth, Front Column----DB-608

Date of run: 3/30/00

Data path : \000330

Concentration(ppb)

AREA

Analyte	Concentration(ppb)										RF5	Avg RF	SD	%RSD
	10	20	40	60	80	RF1	RF2	RF3	RF4	RF5				
TCMX (Sur.)	62154	127887	256817	350692	452029	6215	6394	6420	5845	5650	6105	343	6	
alpha-BHC	28290	64163	161748	242644	335546	2829	3208	4044	4044	4194	3664	607	17	
gamma-BHC	26558	62432	152794	225881	314333	2656	3122	3820	3765	3929	3458	549	16	
beta-BHC	17140	40213	88152	124875	165496	1714	2011	2204	2081	2069	2016	183	9	
Heptachlor	38858	79709	173173	247362	330431	3886	3985	4329	4123	4130	4091	168	4	
delta-BHC	23068	47558	122923	187324	273764	2307	2378	3073	3122	3422	2860	492	17	
Aldrin	30153	65586	140965	215030	278190	3015	3279	3524	3584	3477	3376	232	7	
Heptachlor Epoxide	33929	70671	152724	217378	292687	3393	3534	3818	3623	3659	3605	157	4	
gamma-Chlordane	37251	75916	158676	227018	305196	3725	3796	3967	3784	3815	3817	90	2	
Alpha Chlordane	33467	70800	154345	220997	299474	3347	3540	3859	3683	3743	3634	198	5	
Endosulfan I	31198	66587	145359	209502	284757	3120	3329	3634	3492	3559	3427	205	6	
4,4'-DDE	28170	61281	133311	194190	267508	2817	3064	3333	3237	3344	3159	222	7	
Dieldrin	27859	59141	129922	189365	261817	2786	2957	3248	3156	3273	3084	208	7	
Endrin	18664	39369	88746	133191	198953	1866	1968	2219	2220	2487	2152	243	11	
4,4'-DDD	15908	34964	79638	118088	164390	1591	1748	1991	1968	2055	1871	194	10	
Endosulfan II	25539	54527	116189	165186	221904	2554	2726	2905	2753	2774	2742	126	5	
4,4'-DDT	16311	35601	78844	114454	166695	1631	1780	1971	1908	2084	1875	175	9	
Endrin Aldehyde	24305	49137	102626	134699	176948	2431	2457	2566	2245	2212	2382	150	6	
Endosulfan sulfate	22497	46201	96728	135744	185970	2250	2310	2418	2262	2325	2313	67	3	
Methoxychlor	11156	23640	48304	68526	94584	1116	1182	1208	1142	1182	1166	37	3	
Endrin Ketone	24149	55990	123088	174496	229642	2415	2800	3077	2908	2871	2814	245	9	
DCB (Sur.)	82071	160443	308428	412394	535641	8207	8022	7711	6873	6696	7502	681	9	

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Data File Name   : G:\HPCHEM\2\DATA\000328\036F0101.D
Operator        : GC-17                               Page Number     : 1
Instrument       : GC 17 ECD                           Vial Number     : 36
Sample Name     : PEST-10 S112299B                   Injection Number : 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 29 Mar 00 08:24 PM                   Instrument Method: 8081.MTH
Report Created on: 01 Apr 00 03:21 PM                 Analysis Method  : PST0330F.MTH
Last Recalib on : 30 MAR 00 03:57 PM                 Sample Amount   : 0
Multiplier     : 1                                     ISTD Amount     :
  
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Calibration Table

Pk#	RT	Lvl	ng/ml	Amt/Area	Ref Istd I#	Name
1	7.225	1	20.0	3.2178e-004	1	2,4,5,6-Tetrachloro-...
		2	40.0	3.1278e-004		
		3	80.0	3.1151e-004		
		4	120.0	3.4218e-004		
		5	160.0	3.5396e-004		
2	9.200	1	10.0	3.5348e-004	1	Alpha-BHC
		2	20.0	3.117e-004		
		3	40.0	2.473e-004		
		4	60.0	2.4728e-004		
		5	80.0	2.3842e-004		
3	10.602	1	10.0	3.7653e-004	1	Gamma-BHC
		2	20.0	3.2035e-004		
		3	40.0	2.6179e-004		
		4	60.0	2.6563e-004		
		5	80.0	2.5451e-004		
4	10.820	1	10.0	5.8344e-004	1	Beta-BHC
		2	20.0	4.9735e-004		
		3	40.0	4.5376e-004		
		4	60.0	4.8048e-004		
		5	80.0	4.8339e-004		
5	11.943	1	10.0	2.5735e-004	1	Heptachlor
		2	20.0	2.5091e-004		
		3	40.0	2.3098e-004		
		4	60.0	2.4256e-004		
		5	80.0	2.4211e-004		
6	12.374	1	10.0	4.3351e-004	1	Delta-BHC
		2	20.0	4.2054e-004		
		3	40.0	3.2541e-004		
		4	60.0	3.203e-004		
		5	80.0	2.9222e-004		
7	13.436	1	10.0	3.3165e-004	1	Aldrin
		2	20.0	3.0495e-004		
		3	40.0	2.8376e-004		

		4	60.0	2.7903e-004	
8	16.198	1	10.0	2.9473e-004	1 Heptachlor Epoxide
		2	20.0	2.83e-004	
		3	40.0	2.6191e-004	
		4	60.0	2.7602e-004	
		5	80.0	2.7333e-004	
9	17.078	1	10.0	2.6845e-004	1 Gamma Chlordane
		2	20.0	2.6345e-004	
		3	40.0	2.5209e-004	
		4	60.0	2.643e-004	
		5	80.0	2.6213e-004	
10	17.972	1	10.0	2.988e-004	1 Alpha Chlordane
		2	20.0	2.8249e-004	
		3	40.0	2.5916e-004	
		4	60.0	2.715e-004	
		5	80.0	2.6713e-004	
11	18.159	1	10.0	3.2053e-004	1 Endosulfan I
		2	20.0	3.0036e-004	
		3	40.0	2.7518e-004	
		4	60.0	2.8639e-004	
		5	80.0	2.8094e-004	
12	19.458	1	10.0	3.5498e-004	1 4,4'-DDE
		2	20.0	3.2636e-004	
		3	40.0	3.0005e-004	
		4	60.0	3.0898e-004	
		5	80.0	2.9906e-004	
13	19.947	1	10.0	3.5896e-004	1 Dieldrin
		2	20.0	3.3817e-004	
		3	40.0	3.0788e-004	
		4	60.0	3.1685e-004	
		5	80.0	3.0556e-004	
14	21.630	1	10.0	5.3579e-004	1 Endrin
		2	20.0	5.0801e-004	
		3	40.0	4.5073e-004	
		4	60.0	4.5048e-004	
		5	80.0	4.0211e-004	
15	22.001	1	10.0	6.286e-004	1 4,4'-DDD
		2	20.0	5.7202e-004	
		3	40.0	5.0228e-004	
		4	60.0	5.081e-004	
		5	80.0	4.8665e-004	
16	22.240	1	10.0	3.9156e-004	1 Endosulfan II
		2	20.0	3.6679e-004	
		3	40.0	3.4427e-004	
		4	60.0	3.6323e-004	
		5	80.0	3.6052e-004	
17	22.878	1	10.0	6.1309e-004	1 4,4'-DDT

Method: G:\HPCHEM\2\METHODS\PST0330F.MTH

		3	40.0	5.0733e-004	
		4	60.0	5.2423e-004	
		5	80.0	4.7992e-004	
18	23.162	1	10.0	4.1144e-004	1 Endrin Aldehyde
		2	20.0	4.0703e-004	
		3	40.0	3.8976e-004	
		4	60.0	4.4544e-004	
		5	80.0	4.5211e-004	
19	23.493	1	10.0	4.4451e-004	1 Endosulfan Sulfate
		2	20.0	4.3289e-004	
		3	40.0	4.1353e-004	
		4	60.0	4.4201e-004	
		5	80.0	4.3018e-004	
20	25.248	1	10.0	8.964e-004	1 Methoxychlor
		2	20.0	8.4602e-004	
		3	40.0	8.2808e-004	
		4	60.0	8.7558e-004	
		5	80.0	8.4581e-004	
21	25.807	1	10.0	4.1409e-004	1 Endrin Ketone
		2	20.0	3.5721e-004	
		3	40.0	3.2497e-004	
		4	60.0	3.4385e-004	
		5	80.0	3.4837e-004	
22	29.982	1	20.0	2.4369e-004	1 Decachlorobiphenyl
		2	40.0	2.4931e-004	
		3	80.0	2.5938e-004	
		4	120.0	2.9098e-004	
		5	160.0	2.9871e-004	

Calibration Settings

Title:

Reference window: 0.300 minutes
 Non-reference window: 0.300 minutes
 Units of amount: ng/ml
 Multiplier: 1.0
 RF uncal peaks: 0.0
 ISTD# to adjust uncal peaks: 0
 Sample Amount: 0.0

Sample ISTD Information

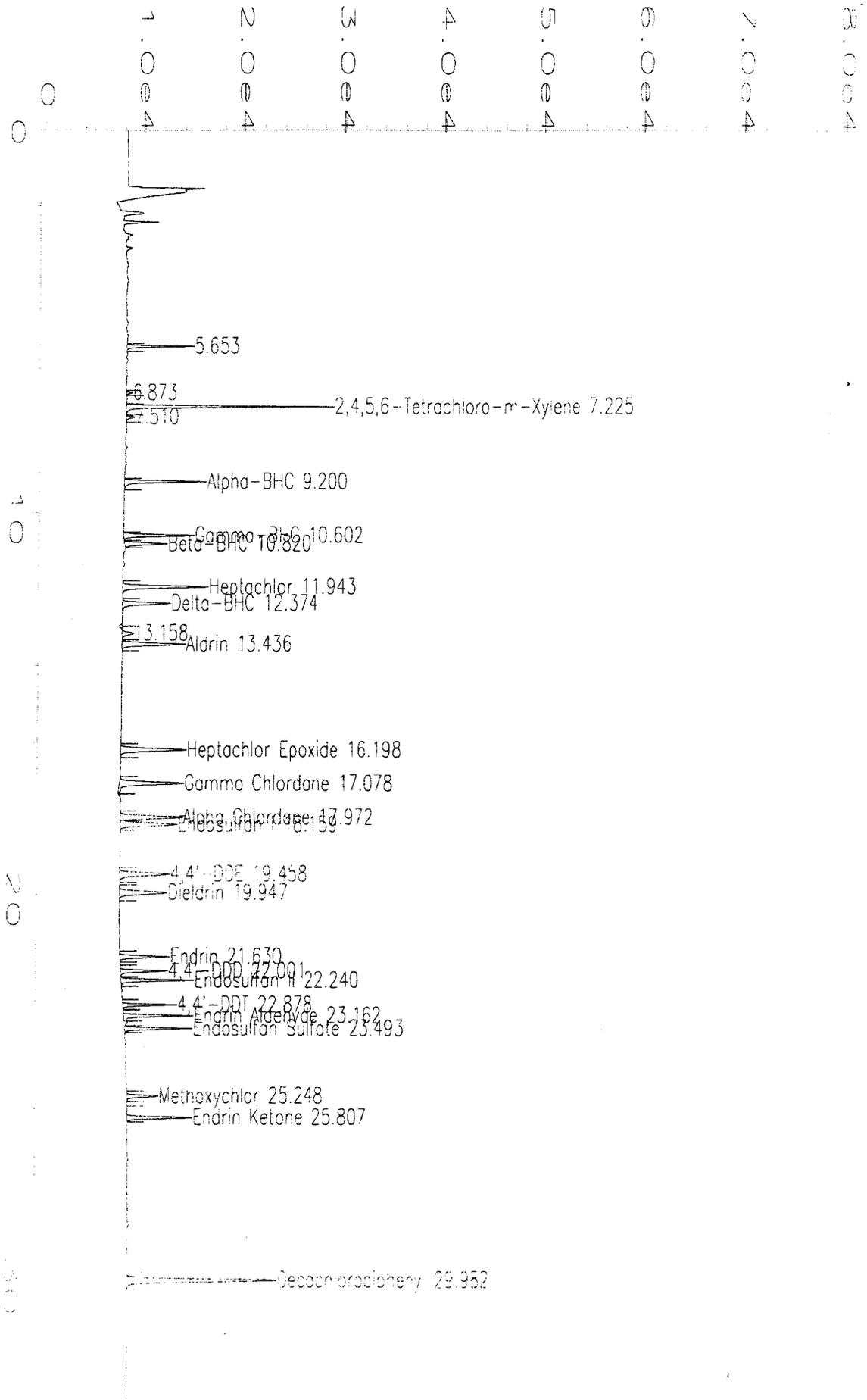
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Data File Name   : G:\HPCHEM\2\DATA\000328\036F0101.D  
Operator        : GC-17                               Page Number     : 1  
Instrument       : GC 17 ECD                          Vial Number     : 36  
Sample Name     : PEST-10 S112299B                   Injection Number : 1  
Run Time Bar Code:                                     Sequence Line   : 1  
Acquired on    : 29 Mar 00 08:24 PM                  Instrument Method: 8081.MTH  
Report Created on: 01 Apr 00 03:19 PM                 Analysis Method : PST0330F.MTH  
Last Recalib on : 30 MAR 00 03:57 PM                 Sample Amount   : 0  
Multiplier     : 1                                   ISTD Amount     :
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Sig. 1 in G:\HPCHEM\2\DATA\000328\036F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.225	62154	BV	0.045	1	17.119	2,4,5,6-Tetrachloro-m-Xylene
9.200	28290	BB	0.051	1	10.693	Alpha-BHC
10.602	26558	BV	0.057	1	10.410	Gamma-BHC
10.820	17140	PF	0.061	1	8.748	Beta-BHC
11.943	38858	MV	0.074	1	9.750	Heptachlor
12.374	23068	VV	0.078	1	12.204	Delta-BHC
13.436	30153	VM	0.078	1	9.504	Aldrin
16.198	33929	BB	0.079	1	9.548	Heptachlor Epoxide
17.078	37251	BV	0.087	1	9.596	Gamma Chlordane
17.972	33467	BV	0.082	1	9.662	Alpha Chlordane
18.159	31198	VB	0.085	1	9.753	Endosulfan I
19.458	28170	BB	0.086	1	10.001	4,4'-DDE
19.947	27859	BB	0.088	1	10.189	Dieldrin
21.630	18664	BB	0.057	1	11.585	Endrin
22.001	15908	BB	0.050	1	10.458	4,4'-DDD
22.240	25539	BB	0.054	1	9.342	Endosulfan II
22.878	16311	BB	0.046	1	10.736	4,4'-DDT
23.162	24305	BV	0.052	1	8.551	Endrin Aldehyde
23.493	22497	VB	0.051	1	9.584	Endosulfan Sulfate
25.248	11156	BB	0.054	1	9.582	Methoxychlor
25.807	24149	BB	0.057	1	8.733	Endrin Ketone
29.982	82071	BB	0.086	1	17.301	Decachlorobiphenyl

User Modified

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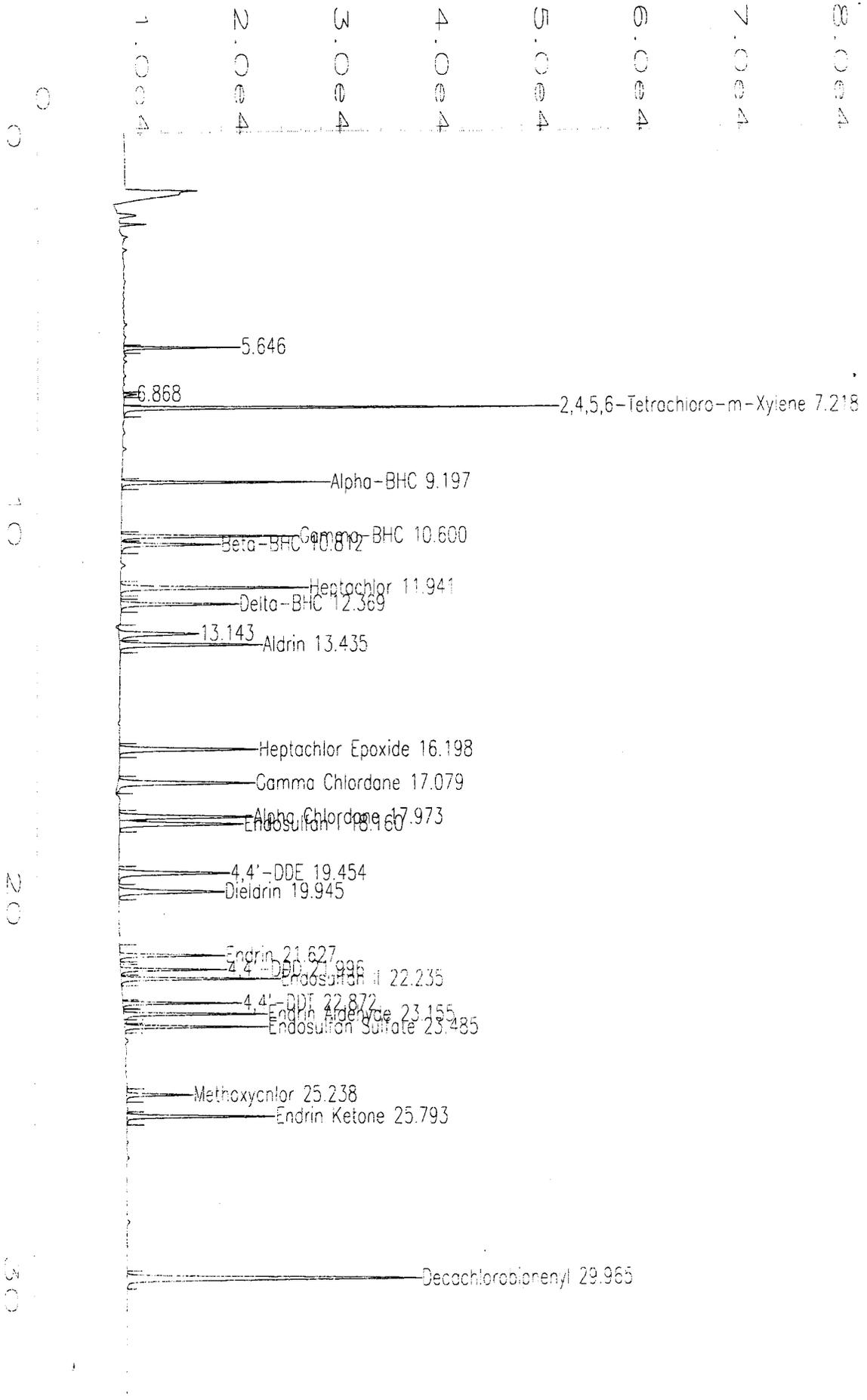
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Data File Name   : G:\HPCHEM\2\DATA\000328\035F0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : PEST-20 S112299C
Run Time Bar Code:
Acquired on    : 29 Mar 00 07:46 PM
Report Created on: 30 Mar 00 03:59 PM
Last Recalib on : 30 Mar 00 03:57 PM
Multiplier     : 1

Page Number    : 1
Vial Number    : 35
Injection Number : 1
Sequence Line  : 1
Instrument Method: 8081.MTH
Analysis Method : PST0330F.MTH
Sample Amount  : 0
ISTD Amount    :

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Sig. 1 in G:\HPCHEM\2\DATA\000328\035F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.218	127887	BB	0.044	1	39.952	2,4,5,6-Tetrachloro-m-Xylene
9.197	64163	BB	0.047	1	18.820	Alpha-BHC
10.600	62432	BV	0.053	1	19.138	Gamma-BHC
10.812	40213	VB	0.061	1	19.763	Beta-BHC
11.941	79709	BB	0.065	1	19.534	Heptachlor
12.369	47558	BB	0.061	1	18.999	Delta-BHC
13.435	65586	VB	0.070	1	19.470	Aldrin
16.198	70671	BB	0.078	1	19.533	Heptachlor Epoxide
17.079	75916	BV	0.084	1	19.731	Gamma Chlordane
17.973	70800	BV	0.081	1	19.549	Alpha Chlordane
18.160	66587	VB	0.083	1	19.586	Endosulfan I
19.454	61281	BB	0.084	1	19.746	4,4'-DDE
19.945	59141	BB	0.086	1	19.598	Dieldrin
21.627	39369	BB	0.057	1	19.751	Endrin
21.996	34964	BV	0.050	1	19.471	4,4'-DDD
22.235	54527	VB	0.052	1	19.740	Endosulfan II
22.872	35601	BB	0.046	1	19.864	4,4'-DDT
23.155	49137	BV	0.052	1	19.589	Endrin Aldehyde
23.485	46201	VB	0.049	1	19.835	Endosulfan Sulfate
25.238	23640	BB	0.054	1	20.211	Methoxychlor
25.793	55990	BB	0.058	1	19.665	Endrin Ketone
29.965	160443	BB	0.084	1	40.478	Decachlorobiphenyl

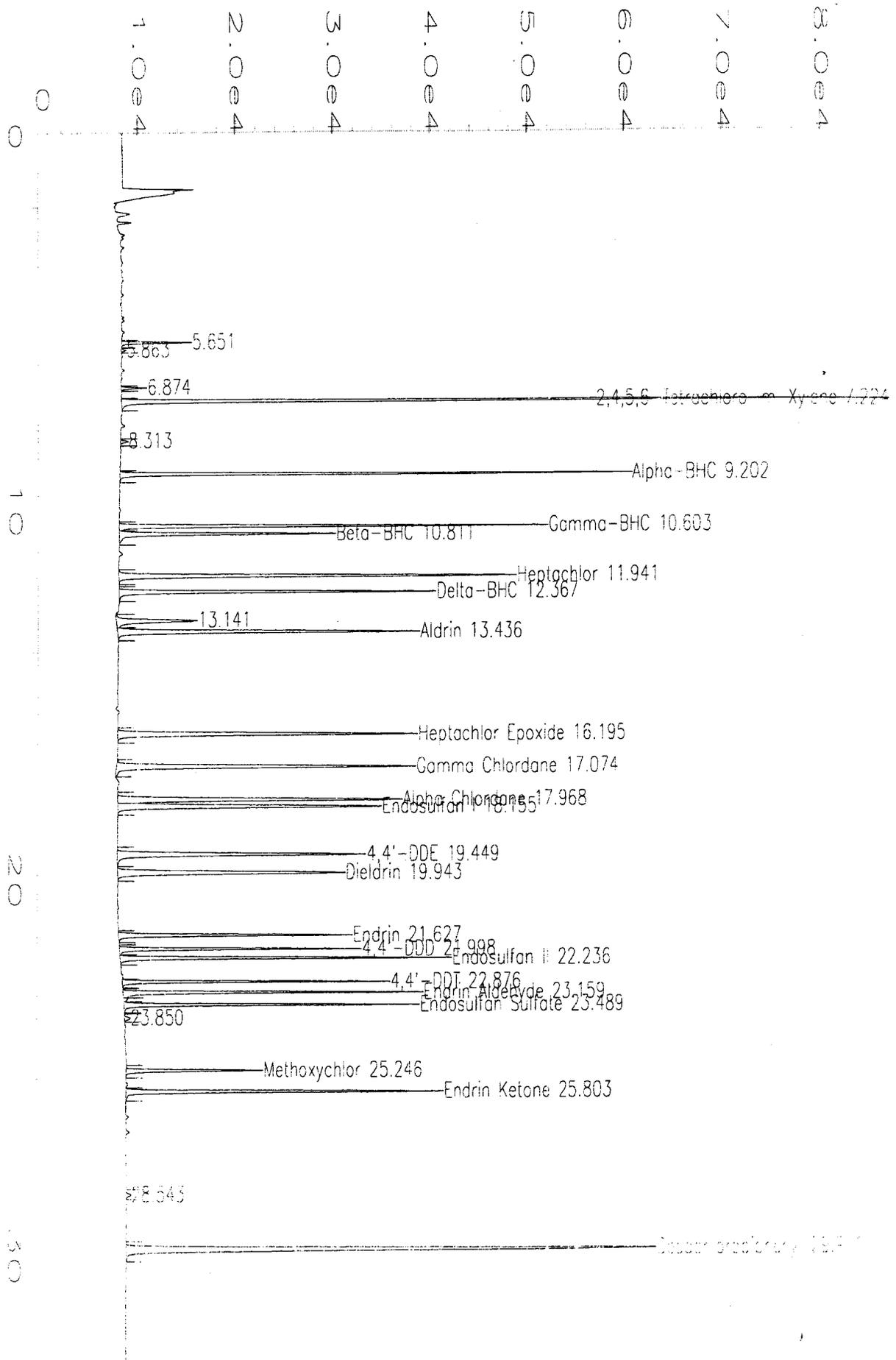


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Data File Name : G:\HPCHEM\2\DATA\000328\034F0101.D
Operator : GC-17 Page Number : 1
Instrument : GC 17 ECD Vial Number : 34
Sample Name : PEST-40 S112299D Injection Number : 1
Run Time Bar Code: Sequence Line : 1
Acquired on : 29 Mar 00 07:09 PM Instrument Method: 8081.MTH
Report Created on: 30 Mar 00 04:02 PM Analysis Method : PST0330F.MTH
Last Recalib on : 30 Mar 00 03:57 PM Sample Amount : 0
Multiplier : 1 ISTD Amount :

Sig. 1 in G:\HPCHEM\2\DATA\000328\034F0101.D

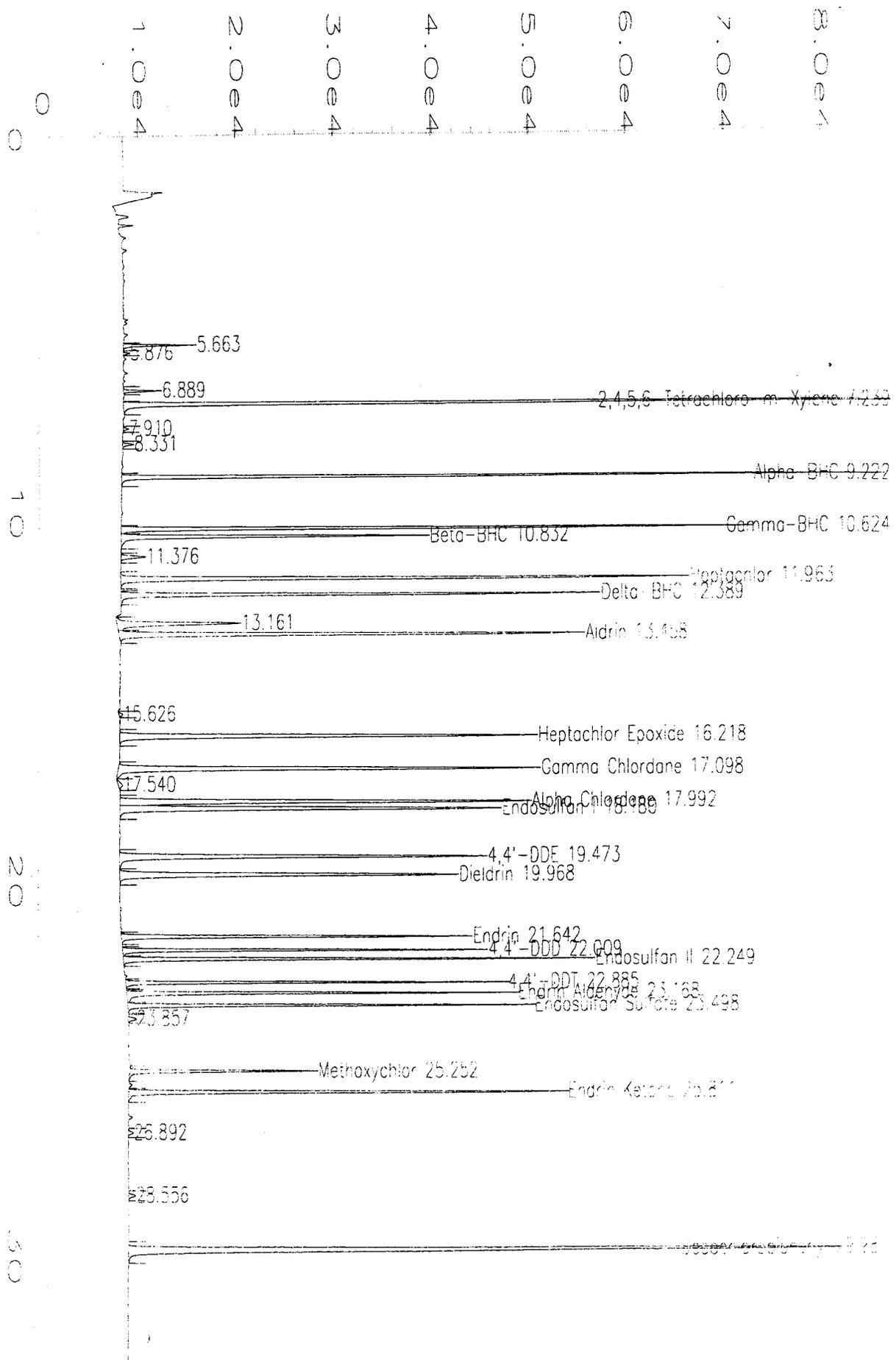
Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.224	256817	BB	0.045	1	86.491	2,4,5,6-Tetrachloro-m-Xylene
9.202	161748	BB	0.047	1	40.928	Alpha-BHC
10.603	152794	BV	0.053	1	41.123	Gamma-BHC
10.811	88152	VB	0.060	1	42.463	Beta-BHC
11.941	173173	BB	0.065	1	41.893	Heptachlor
12.367	122923	BB	0.058	1	39.911	Delta-BHC
13.436	140965	VB	0.070	1	40.553	Aldrin
16.195	152724	BB	0.077	1	41.796	Heptachlor Epoxide
17.074	158676	BV	0.079	1	41.440	Gamma Chlordane
17.968	154345	BV	0.082	1	41.611	Alpha Chlordane
18.155	145359	VB	0.083	1	41.412	Endosulfan I
19.449	133311	BV	0.079	1	40.946	4,4'-DDE
19.943	129922	PB	0.086	1	40.887	Dieldrin
21.627	88746	BB	0.057	1	39.224	Endrin
21.998	79638	BV	0.049	1	40.600	4,4'-DDD
22.236	116189	VB	0.052	1	41.828	Endosulfan II
22.876	78844	VB	0.044	1	40.326	4,4'-DDT
23.159	102626	BV	0.051	1	44.353	Endrin Aldehyde
23.489	96728	VB	0.049	1	41.697	Endosulfan Sulfate
25.246	48304	BB	0.053	1	41.202	Methoxychlor
25.803	123088	VB	0.059	1	42.551	Endrin Ketone
29.971	308428	BB	0.088	1	86.696	Decachlorobiphenyl



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Data File Name   : G:\HPCHEM\2\DATA\000328\033F0101.D  
Operator        : GC-17  
Instrument       : GC 17 ECD  
Sample Name     : PEST-60 S112299E  
Run Time Bar Code:  
Acquired on    : 29 Mar 00 06:32 PM  
Report Created on: 30 Mar 00 03:58 PM  
Last Recalib on : 30 Mar 00 03:57 PM  
Multiplier     : 1  
Page Number    : 1  
Vial Number    : 33  
Injection Number : 1  
Sequence Line  : 1  
Instrument Method: 8081.MTH  
Analysis Method : PST0330F.MTH  
Sample Amount  : 0  
ISTD Amount    :
```

Sig. 1 in G:\HPCHEM\2\DATA\000328\033F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.239	350692	BB	0.045	1	120.377	2,4,5,6-Tetrachloro-m-Xylene
9.222	242644	BB	0.048	1	59.256	Alpha-BHC
10.624	225881	BV	0.054	1	58.904	Gamma-BHC
10.832	124875	VB	0.060	1	59.851	Beta-BHC
11.963	247362	BB	0.066	1	59.640	Heptachlor
12.389	187324	BB	0.059	1	57.781	Delta-BHC
13.458	215030	VB	0.070	1	61.268	Aldrin
16.218	217378	BB	0.079	1	59.338	Heptachlor Epoxide
17.098	227018	BV	0.081	1	59.367	Gamma Chlordane
17.992	220997	BV	0.081	1	59.212	Alpha Chlordane
18.180	209502	VB	0.084	1	59.185	Endosulfan I
19.473	194190	BV	0.079	1	58.864	4,4'-DDE
19.968	189365	PB	0.084	1	58.766	Dieldrin
21.642	133191	PB	0.057	1	56.752	Endrin
22.009	118088	BV	0.049	1	58.786	4,4'-DDD
22.249	165186	VV	0.052	1	59.380	Endosulfan II
22.885	114454	BB	0.045	1	57.176	4,4'-DDT
23.168	134699	BV	0.051	1	59.202	Endrin Aldehyde
23.498	135744	VB	0.050	1	58.579	Endosulfan Sulfate
25.252	68526	BB	0.054	1	58.412	Methoxychlor
25.811	174496	PB	0.060	1	60.085	Endrin Ketone
29.987	412394	BB	0.088	1	119.166	Decachlorobiphenyl



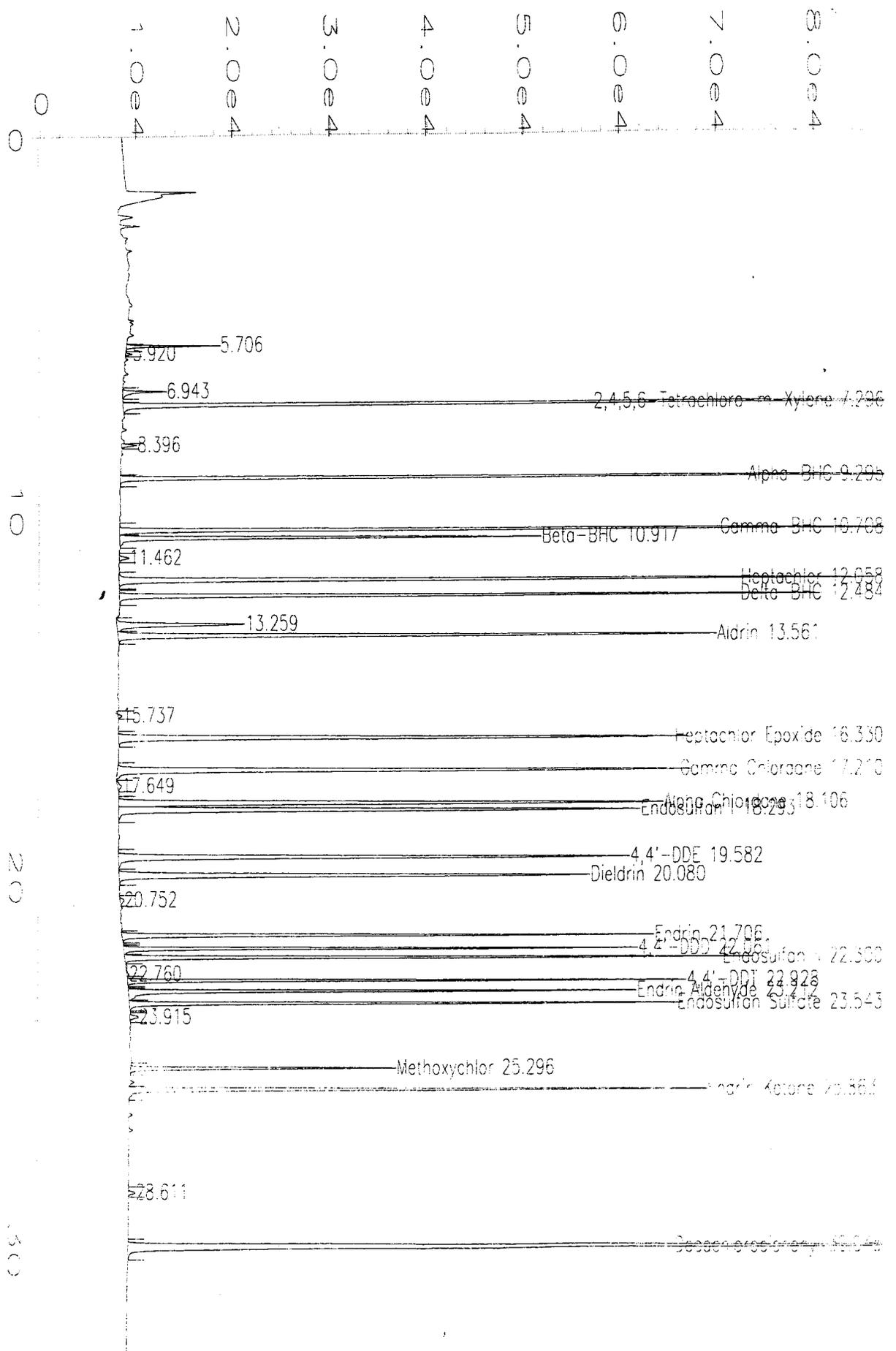
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=====
Data File Name      : G:\HPCHEM\2\DATA\000328\032F0101.D
Operator           : GC-17
Instrument          : GC 17 ECD
Sample Name        : PEST-80 S112299
Run Time Bar Code  :
Acquired on        : 29 Mar 00 05:57 PM
Report Created on  : 30 Mar 00 03:57 PM
Last Recalib on   : 30 Mar 00 03:57 PM
Multiplier         : 1

Page Number        : 1
Vial Number        : 32
Injection Number   : 1
Sequence Line      : 1
Instrument Method   : 8081.MTH
Analysis Method    : PST0330F.MTH
Sample Amount      : 0
ISTD Amount        :
    
```

Sig. 1 in G:\HPCHEM\2\DATA\000328\032F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.296	452029	BV	0.045	1	156.956	2,4,5,6-Tetrachloro-m-Xylene
9.295	335546	BB	0.049	1	80.302	Alpha-BHC
10.708	314333	BV	0.056	1	80.424	Gamma-BHC
10.917	165496	VB	0.058	1	79.085	Beta-BHC
12.058	330431	BB	0.065	1	79.512	Heptachlor
12.484	273764	BB	0.059	1	81.766	Delta-BHC
13.561	278190	VB	0.070	1	78.933	Aldrin
16.330	292687	BB	0.077	1	79.770	Heptachlor Epoxide
17.210	305196	BV	0.080	1	79.874	Gamma Chlordane
18.106	299474	BV	0.084	1	79.936	Alpha Chlordane
18.293	284757	VB	0.082	1	80.036	Endosulfan I
19.582	267508	BV	0.078	1	80.442	4,4'-DDE
20.080	261817	PB	0.084	1	80.558	Dieldrin
21.706	198953	PB	0.056	1	82.688	Endrin
22.061	164390	BV	0.048	1	80.686	4,4'-DDD
22.300	221904	VV	0.053	1	79.697	Endosulfan II
22.928	166695	VB	0.044	1	81.896	4,4'-DDT
23.212	176948	BV	0.051	1	78.763	Endrin Aldehyde
23.543	185970	VB	0.050	1	80.311	Endosulfan Sulfate
25.296	94584	BB	0.053	1	80.589	Methoxychlor
25.863	229642	PB	0.060	1	78.894	Endrin Ketone
30.045	535641	BB	0.089	1	157.658	Decachlorobiphenyl

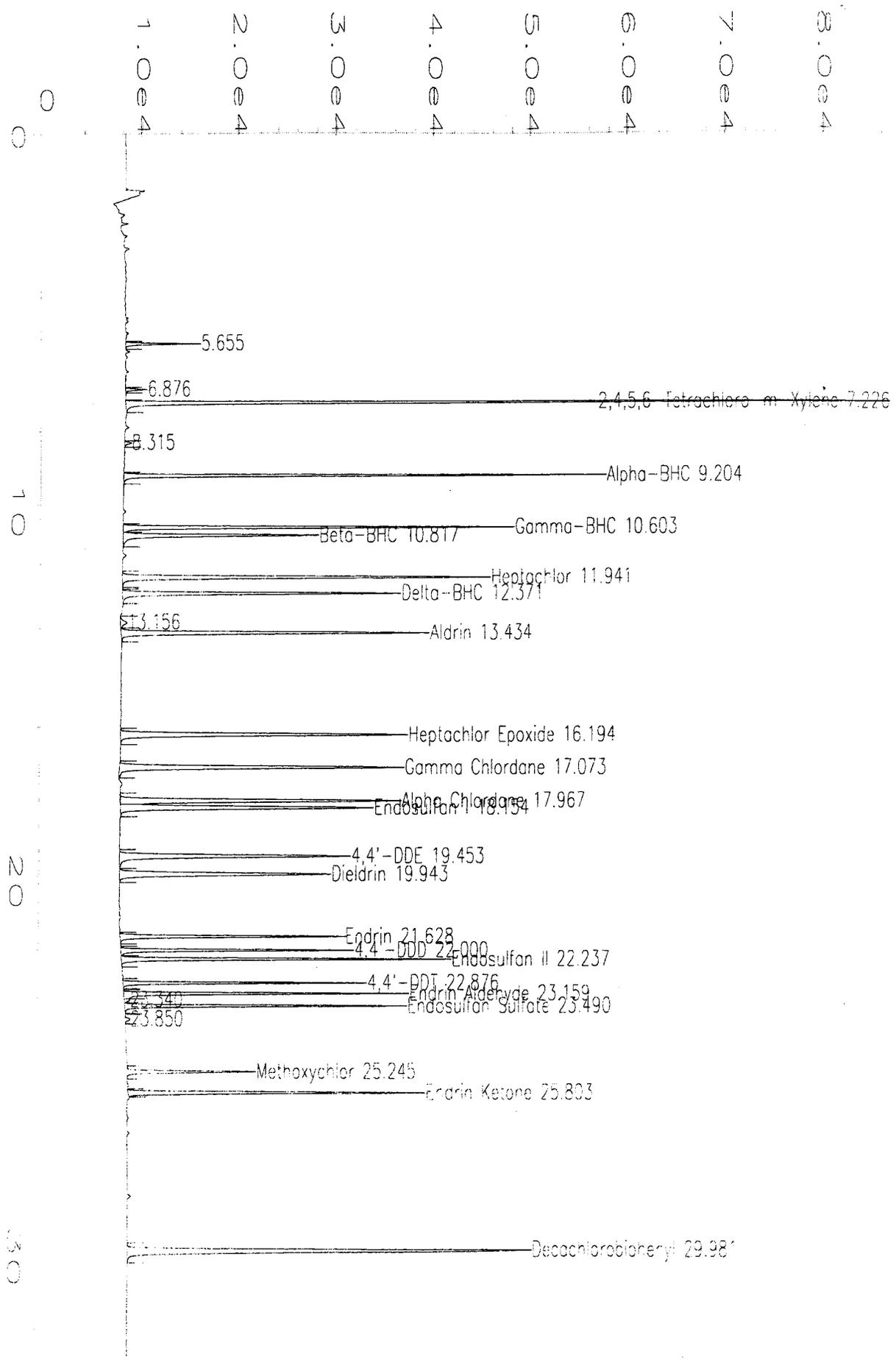


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Data File Name   : G:\HPCHEM\2\DATA\000328\037F0101.D  
Operator        : GC-17  
Instrument       : GC 17 ECD  
Sample Name     : PEST ICV S12999B  
Run Time Bar Code:   
Acquired on    : 29 Mar 00 09:01 PM  
Report Created on: 30 Mar 00 04:05 PM  
Last Recalib on : 30 Mar 00 03:57 PM  
Multiplier     : 1  
  
Page Number    : 1  
Vial Number    : 37  
Injection Number : 1  
Sequence Line  : 1  
Instrument Method: 8081.MTH  
Analysis Method : PST0330F.MTH  
Sample Amount  : 0  
ISTD Amount    :   
=====
```

Sig. 1 in G:\HPCHEM\2\DATA\000328\037F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.226	246436	BB	0.045	1	82.744	2,4,5,6-Tetrachloro-m-Xylene
9.204	153853	BB	0.048	1	39.140	Alpha-BHC
10.603	143966	BV	0.055	1	38.975	Gamma-BHC
10.817	84627	VB	0.064	1	40.793	Beta-BHC
11.941	161671	BB	0.065	1	39.141	Heptachlor
12.371	114668	BB	0.061	1	37.621	Delta-BHC
13.434	141915	VB	0.069	1	40.819	Aldrin
16.194	149341	BB	0.078	1	40.878	Heptachlor Epoxide
17.073	153579	BV	0.081	1	40.103	Gamma Chlordane
17.967	151130	BV	0.081	1	40.762	Alpha Chlordane
18.154	141411	VB	0.084	1	40.318	Endosulfan I
19.453	128356	BV	0.082	1	39.488	4,4'-DDE
19.943	120581	VB	0.085	1	38.078	Dieldrin
21.628	85728	BB	0.056	1	38.034	Endrin
22.000	78353	BV	0.050	1	39.992	4,4'-DDD
22.237	114648	VB	0.052	1	41.276	Endosulfan II
22.876	74019	BB	0.046	1	38.043	4,4'-DDT
23.159	97741	BV	0.051	1	42.092	Endrin Aldehyde
23.490	94254	VB	0.050	1	40.627	Endosulfan Sulfate
25.245	47308	BB	0.055	1	40.354	Methoxychlor
25.803	112576	BV	0.057	1	38.965	Endrin Ketone
29.981	233644	BB	0.087	1	63.340	Decachlorobiphenyl

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GC-17, Calculation of Initial Calibration, Pest0330R.mth, Rear Column----DB-5

Date of run: 3/30/00

Data path : \000330

Analyte	Concentration(ppb)								RF5	Avg RF	SD	%RSD	
	10	20	40	60	80	RF1	RF2	RF3					RF4
2,4,5,6-Tetrachloro-	63957	131099	258475	352231	446250	6396	6555	6462	5871	5578	6172	426	7
Alpha-BHC	32057	76085	173974	246390	346506	3206	3804	4349	4107	4331	3959	475	12
Beta-BHC	19333	42486	88649	121017	167729	1933	2124	2216	2017	2097	2077	108	5
Gamma-BHC	31400	74073	167144	234392	334514	3140	3704	4179	3907	4181	3822	431	11
Delta-BHC	25420	60299	145468	203845	300206	2542	3015	3637	3397	3753	3269	495	15
Heptachlor	41818	89185	183766	250783	348661	4182	4459	4594	4180	4358	4355	179	4
Aldrin	33592	72357	147711	210415	290491	3359	3618	3693	3507	3631	3562	131	4
Heptachlor Epoxide	37722	79199	188334	217030	385705	3772	3960	4708	3617	4821	4176	553	13
Gamma Chlordane	37911	78479	164807	224624	315494	3791	3924	4120	3744	3944	3905	148	4
Endosulfan I	34100	72624	149294	199122	284345	3410	3631	3732	3319	3554	3529	166	5
Alpha Chlordane	39724	83472	175090	240202	341359	3972	4174	4377	4003	4267	4159	172	4
4,4'-DDE	31538	68196	142410	194957	283600	3154	3410	3560	3249	3545	3384	179	5
Dieldrin	32069	68801	144458	196919	288060	3207	3440	3611	3282	3601	3428	183	5
Endrin	25732	53701	113701	159623	251202	2573	2885	2843	2660	3140	2780	223	8
Endosulfan II	33989	71563	146182	197768	281593	3399	3578	3655	3296	3520	3490	143	4
4,4'-DDD	21778	47544	101575	140229	208852	2178	2377	2539	2337	2611	2408	171	7
Endrin Aldehyde	31449	65779	137045	173770	238743	3145	3289	3426	2896	2984	3148	216	7
Endosulfan Sulfate	30923	64302	129165	173833	250031	3092	3215	3229	2897	3125	3112	133	4
4,4'-DDT	22784	49750	105827	145983	229046	2278	2488	2646	2433	2863	2542	223	9
Endrin Ketone	36216	77685	160989	215996	298388	3622	3884	4025	3600	3730	3772	181	5
Methoxychlor	15122	31692	63832	85715	123641	1512	1585	1596	1429	1546	1533	67	4
Decachlorobiphenyl	82031	157920	299092	399743	527042	8203	7896	7477	6662	6588	7365	724	10

Rear column

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=====
Data File Name      : G:\HPCHEM\2\DATA\000328\032R0101.D
Operator           : GC-17                               Page Number      : 1
Instrument         : GC 17 ECD                           Vial Number     : 32
Sample Name       : PEST-80 S112299                     Injection Number : 1
Run Time Bar Code :                                       Sequence Line    : 1
Acquired on      : 29 Mar 00 05:57 PM                   Instrument Method: 8081.MTH
Report Created on: 30 Mar 00 04:30 PM                   Analysis Method  : PST0330R.MTH
Last Recalib on  : 30 Mar 00 04:30 PM                   Sample Amount   : 0
Multiplier       : 1                                     ISTD Amount     :
    
```

Calibration Table

Pk#	RT	Lvl	ng/ul	Amt/Area	Ref Istd I#	Name
1	6.631	1	20.0	3.1271e-004	1	2,4,5,6-Tetrachloro-...
		2	40.0	3.0511e-004		
		3	80.0	3.0951e-004		
		4	120.0	3.4069e-004		
		5	160.0	3.5854e-004		
2	7.426	1	10.0	3.1194e-004	1	Alpha-BHC
		2	20.0	2.6286e-004		
		3	40.0	2.2992e-004		
		4	60.0	2.4352e-004		
		5	80.0	2.3088e-004		
3	7.981	1	10.0	5.1724e-004	1	Beta-BHC
		2	20.0	4.7075e-004		
		3	40.0	4.5122e-004		
		4	60.0	4.958e-004		
		5	80.0	4.7696e-004		
4	8.187	1	10.0	3.1847e-004	1	Gamma-BHC
		2	20.0	2.7001e-004		
		3	40.0	2.3932e-004		
		4	60.0	2.5598e-004		
		5	80.0	2.3915e-004		
5	8.732	1	10.0	3.9339e-004	1	Delta-BHC
		2	20.0	3.3168e-004		
		3	40.0	2.7497e-004		
		4	60.0	2.9434e-004		
		5	80.0	2.6648e-004		
6	10.289	1	10.0	2.3913e-004	1	Heptachlor
		2	20.0	2.2425e-004		
		3	40.0	2.1767e-004		
		4	60.0	2.3925e-004		
		5	80.0	2.2945e-004		
7	11.522	1	10.0	2.9769e-004	1	Aldrin
		2	20.0	2.7641e-004		
		3	40.0	2.708e-004		

		5	80.0	2.754e-004	
8	13.021	1	10.0	2.651e-004	1 Heptachlor Epoxide
		2	20.0	2.5253e-004	
		3	40.0	2.1239e-004	
		4	60.0	2.7646e-004	
		5	80.0	2.0741e-004	
9	14.016	1	10.0	2.6378e-004	1 Gamma Chlordane
		2	20.0	2.5484e-004	
		3	40.0	2.4271e-004	
		4	60.0	2.6711e-004	
		5	80.0	2.5357e-004	
10	14.603	1	10.0	2.9325e-004	1 Endosulfan I
		2	20.0	2.7539e-004	
		3	40.0	2.6793e-004	
		4	60.0	3.0132e-004	
		5	80.0	2.8135e-004	
11	14.693	1	10.0	2.5174e-004	1 Alpha Chlordane
		2	20.0	2.396e-004	
		3	40.0	2.2845e-004	
		4	60.0	2.4979e-004	
		5	80.0	2.3436e-004	
12	15.555	1	10.0	3.1708e-004	1 4,4'-DDE
		2	20.0	2.9327e-004	
		3	40.0	2.8088e-004	
		4	60.0	3.0776e-004	
		5	80.0	2.8209e-004	
13	15.812	1	10.0	3.1183e-004	1 Dieldrin
		2	20.0	2.907e-004	
		3	40.0	2.769e-004	
		4	60.0	3.0469e-004	
		5	80.0	2.7772e-004	
14	16.888	1	10.0	3.8862e-004	1 Endrin
		2	20.0	3.7243e-004	
		3	40.0	3.518e-004	
		4	60.0	3.7588e-004	
		5	80.0	3.1847e-004	
15	17.315	1	10.0	2.9422e-004	1 Endosulfan II
		2	20.0	2.7948e-004	
		3	40.0	2.7363e-004	
		4	60.0	3.0339e-004	
		5	80.0	2.841e-004	
16	17.656	1	10.0	4.5918e-004	1 4,4'-DDD
		2	20.0	4.2066e-004	
		3	40.0	3.938e-004	
		4	60.0	4.2787e-004	
		5	80.0	3.8305e-004	
17	18.265	1	10.0	3.1797e-004	1 Endrin Aldehyde

Method: G:\HPCHEM\2\METHODS\PST0330R.MTH

		3	40.0	2.9188e-004	
		4	60.0	3.4528e-004	
		5	80.0	3.3509e-004	
8	19.551	1	10.0	3.2338e-004	1 Endosulfan Sulfate
		2	20.0	3.1103e-004	
		3	40.0	3.0968e-004	
		4	60.0	3.4516e-004	
		5	80.0	3.1996e-004	
19	19.701	1	10.0	4.389e-004	1 4,4'-DDT
		2	20.0	4.0201e-004	
		3	40.0	3.7797e-004	
		4	60.0	4.1101e-004	
		5	80.0	3.4927e-004	
20	21.608	1	10.0	2.7612e-004	1 Endrin Ketone
		2	20.0	2.5745e-004	
		3	40.0	2.4846e-004	
		4	60.0	2.7778e-004	
		5	80.0	2.6811e-004	
21	22.007	1	10.0	6.6127e-004	1 Methoxychlor
		2	20.0	6.3107e-004	
		3	40.0	6.2664e-004	
		4	60.0	0.0007	
		5	80.0	6.4703e-004	
22	26.642	1	20.0	2.4381e-004	1 Decachlorobiphenyl
		2	40.0	2.5329e-004	
		3	80.0	2.6748e-004	
		4	120.0	3.0019e-004	
		5	160.0	3.0358e-004	

Calibration Settings

Title:

Reference window: 5.000 %
 Non-reference window: 5.000 %
 Units of amount: ng/ul
 Multiplier: 1.0
 RF uncal peaks: 0.0
 ISTD# to adjust uncal peaks: 0
 Sample Amount: 0.0

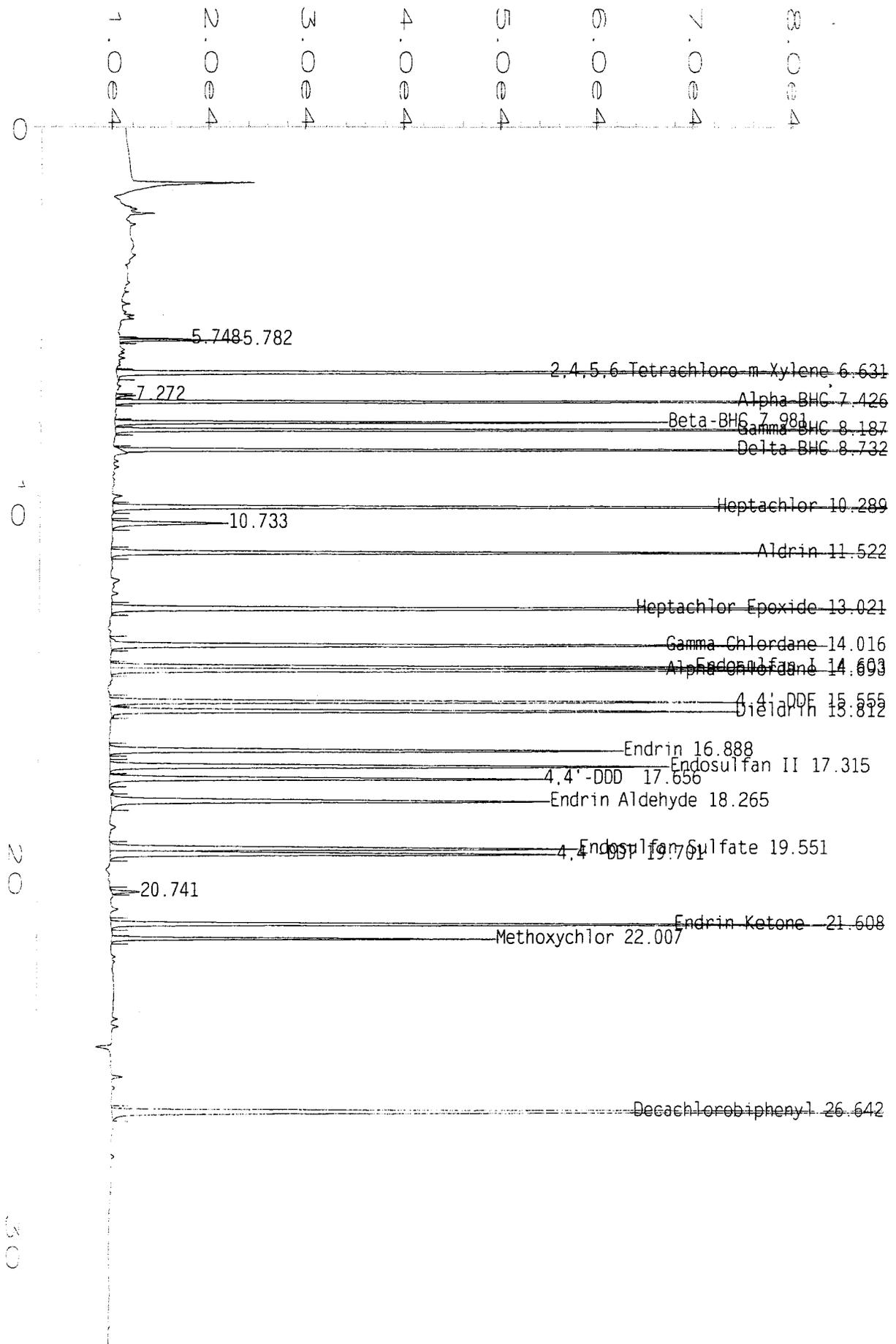
Sample ISTD Information

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=====
Data File Name   : G:\HPCHEM\2\DATA\000328\032R0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 32
Sample Name     : PEST-80 S112299                     Injection Number: 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 29 Mar 00 05:57 PM                   Instrument Method: 8081.MTH
Report Created on: 30 Mar 00 04:31 PM                 Analysis Method : PST0330R.MTH
Last Recalib on : 30 Mar 00 04:30 PM                 Sample Amount   : 0
Multiplier     : 1                                     ISTD Amount     :
  
```

Sig. 2 in G:\HPCHEM\2\DATA\000328\032R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.631	446250	BB	0.039	1	155.976	2,4,5,6-Tetrachloro-m-Xylene
7.426	346506	BB	0.038	1	80.650	Alpha-BHC
7.981	167729	BV	0.044	1	80.413	Beta-BHC
8.187	334514	VB	0.043	1	81.047	Gamma-BHC
8.732	300206	BV	0.044	1	81.724	Delta-BHC
10.289	348661	BB	0.053	1	80.586	Heptachlor
11.522	290491	BB	0.057	1	80.589	Aldrin
13.021	385705	BB	0.069	1	85.937	Heptachlor Epoxide
14.016	315494	BB	0.066	1	80.866	Gamma Chlordane
14.603	284345	BV	0.063	1	81.253	Endosulfan I
14.693	341359	VB	0.069	1	81.203	Alpha Chlordane
15.555	283600	BV	0.068	1	81.805	4,4'-DDE
15.812	288060	VB	0.070	1	81.938	Dieldrin
16.888	251202	BB	0.074	1	83.991	Endrin
17.315	281593	BB	0.077	1	81.274	Endosulfan II
17.656	208852	BB	0.073	1	82.393	4,4'-DDD
18.265	238743	BB	0.082	1	79.877	Endrin Aldehyde
19.551	250031	BV	0.081	1	81.613	Endosulfan Sulfate
19.701	229046	VB	0.077	1	83.764	4,4'-DDT
21.608	298388	BB	0.055	1	80.295	Endrin Ketone
22.007	123641	BB	0.048	1	81.660	Methoxychlor
26.642	527042	BB	0.065	1	158.747	Decachlorobiphenyl



```

=====
Data File Name   : G:\HPCHEM\2\DATA\000328\033R0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 33
Sample Name     : PEST-60 S112299E                   Injection Number : 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 29 Mar 00 06:32 PM                  Instrument Method: 8081.MTH
Report Created on: 30 Mar 00 04:31 PM                 Analysis Method  : PST0330R.MTH
Last Recalib on : 30 Mar 00 04:30 PM                 Sample Amount   : 0
Multiplier     : 1                                    ISTD Amount     :
  
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Sig. 2 in G:\HPCHEM\2\DATA\000328\033R0101.D

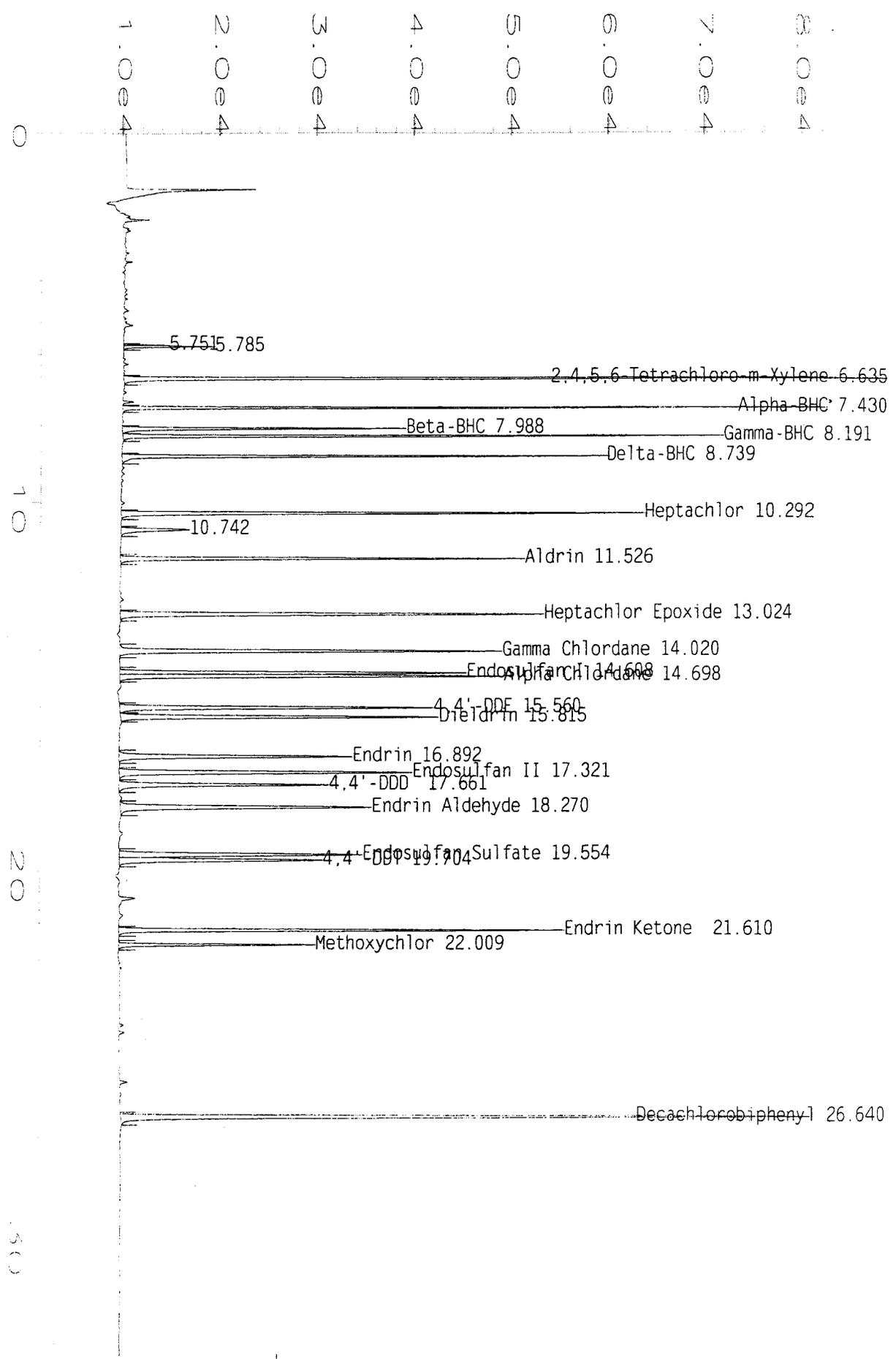
Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.634	352231	BB	0.041	1	121.423	2,4,5,6-Tetrachloro-m-Xylene
7.429	246390	BB	0.038	1	58.088	Alpha-BHC
7.987	121017	BV	0.046	1	57.951	Beta-BHC
8.190	234392	VB	0.043	1	57.526	Gamma-BHC
8.738	203845	BB	0.045	1	56.732	Delta-BHC
10.292	250783	BB	0.054	1	57.810	Heptachlor
11.525	210415	BB	0.056	1	58.450	Aldrin
13.021	217030	BB	0.063	1	49.627	Heptachlor Epoxide
14.020	224624	BB	0.067	1	57.513	Gamma Chlordane
14.608	199122	BV	0.063	1	56.736	Endosulfan I
14.698	240202	VB	0.070	1	57.225	Alpha Chlordane
15.558	194957	BV	0.067	1	56.504	4,4'-DDE
15.815	196919	VB	0.069	1	56.304	Dieldrin
16.890	159623	BB	0.074	1	54.503	Endrin
17.319	197768	BB	0.077	1	56.955	Endosulfan II
17.660	140229	BB	0.073	1	55.958	4,4'-DDD
18.268	173770	BB	0.083	1	57.379	Endrin Aldehyde
19.553	173833	BV	0.081	1	56.539	Endosulfan Sulfate
19.706	145983	VB	0.076	1	54.457	4,4'-DDT
21.609	215996	BB	0.055	1	57.843	Endrin Ketone
22.009	85715	BB	0.049	1	56.440	Methoxychlor
26.642	399743	BB	0.068	1	118.062	Decachlorobiphenyl


```

=====
Data File Name   : G:\HPCHEM\2\DATA\000328\034R0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 34
Sample Name     : PEST-40 S112299D                   Injection Number: 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 29 Mar 00 07:09 PM                  Instrument Method: 8081.MTH
Report Created on: 30 Mar 00 04:31 PM                 Analysis Method  : PST0330R.MTH
Last Recalib on : 30 Mar 00 04:30 PM                 Sample Amount   : 0
Multiplier     : 1                                    ISTD Amount     :
  
```

Sig. 2 in G:\HPCHEM\2\DATA\000328\034R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.635	258475	BB	0.039	1	86.967	2,4,5,6-Tetrachloro-m-Xylene
7.430	173974	BB	0.036	1	41.768	Alpha-BHC
7.988	88649	BV	0.046	1	42.388	Beta-BHC
8.191	167144	VB	0.041	1	41.727	Gamma-BHC
8.739	145468	BB	0.044	1	41.590	Delta-BHC
10.292	183766	BB	0.052	1	42.215	Heptachlor
11.526	147711	BB	0.055	1	41.115	Aldrin
13.024	188334	BB	0.067	1	43.450	Heptachlor Epoxide
14.020	164807	BB	0.064	1	42.140	Gamma Chlordane
14.608	149294	BV	0.064	1	42.402	Endosulfan I
14.698	175090	VB	0.067	1	41.792	Alpha Chlordane
15.560	142410	BV	0.068	1	41.506	4,4'-DDE
15.815	144458	VB	0.069	1	41.549	Dieldrin
16.892	113701	BB	0.073	1	39.717	Endrin
17.321	146182	BB	0.075	1	41.989	Endosulfan II
17.661	101575	BB	0.072	1	41.068	4,4'-DDD
18.270	137045	BB	0.082	1	44.662	Endrin Aldehyde
19.554	129165	BV	0.080	1	41.840	Endosulfan Sulfate
19.704	105827	VB	0.078	1	40.289	4,4'-DDT
21.610	160989	BB	0.055	1	42.854	Endrin Ketone
22.009	63832	BB	0.049	1	41.888	Methoxychlor
26.640	299092	BB	0.065	1	85.894	Decachlorobiphenyl

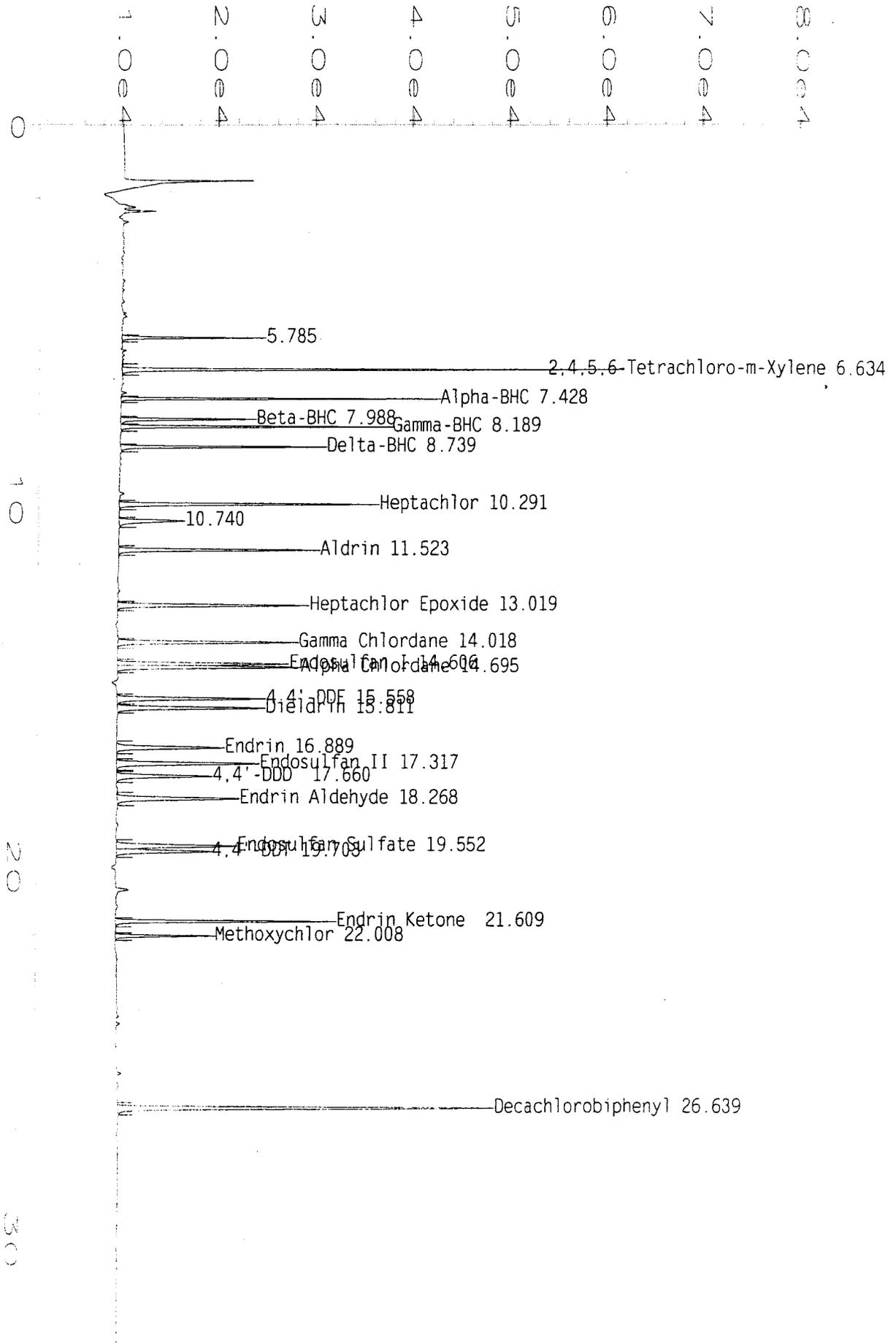


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Data File Name   : G:\HPCHEM\2\DATA\000328\035R0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 35
Sample Name     : PEST-20 S112299C                   Injection Number: 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 29 Mar 00 07:46 PM                 Instrument Method: 8081.MTH
Report Created on: 30 Mar 00 04:31 PM                Analysis Method : PST0330R.MTH
Last Recalib on : 30 Mar 00 04:30 PM                Sample Amount   : 0
Multiplier     : 1                                    ISTD Amount     :
  
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Sig. 2 in G:\HPCHEM\2\DATA\000328\035R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.634	131099	BB	0.037	1	40.155	2,4,5,6-Tetrachloro-m-Xylene
7.428	76085	BB	0.035	1	19.708	Alpha-BHC
7.988	42486	BV	0.045	1	20.190	Beta-BHC
8.189	74073	VB	0.040	1	19.863	Gamma-BHC
8.739	60299	BB	0.043	1	19.500	Delta-BHC
10.291	89185	BB	0.051	1	20.206	Heptachlor
11.523	72357	BB	0.053	1	20.282	Aldrin
13.019	79199	BB	0.061	1	19.957	Heptachlor Epoxide
14.018	78479	BB	0.065	1	19.954	Gamma Chlordane
14.606	72624	BV	0.062	1	20.346	Endosulfan I
14.695	83472	VB	0.067	1	20.075	Alpha Chlordane
15.558	68196	BV	0.067	1	20.324	4,4'-DDE
15.811	68801	VB	0.069	1	20.270	Dieldrin
16.889	53701	BB	0.074	1	20.398	Endrin
17.317	71563	BB	0.075	1	20.341	Endosulfan II
17.660	47544	BB	0.074	1	20.253	4,4'-DDD
18.268	65779	BB	0.080	1	19.985	Endrin Aldehyde
19.552	64302	BV	0.080	1	20.496	Endosulfan Sulfate
19.703	49750	VB	0.077	1	20.502	4,4'-DDT
21.609	77685	BB	0.053	1	20.154	Endrin Ketone
22.008	31692	BB	0.047	1	20.515	Methoxychlor
26.639	157920	BB	0.063	1	40.775	Decachlorobiphenyl

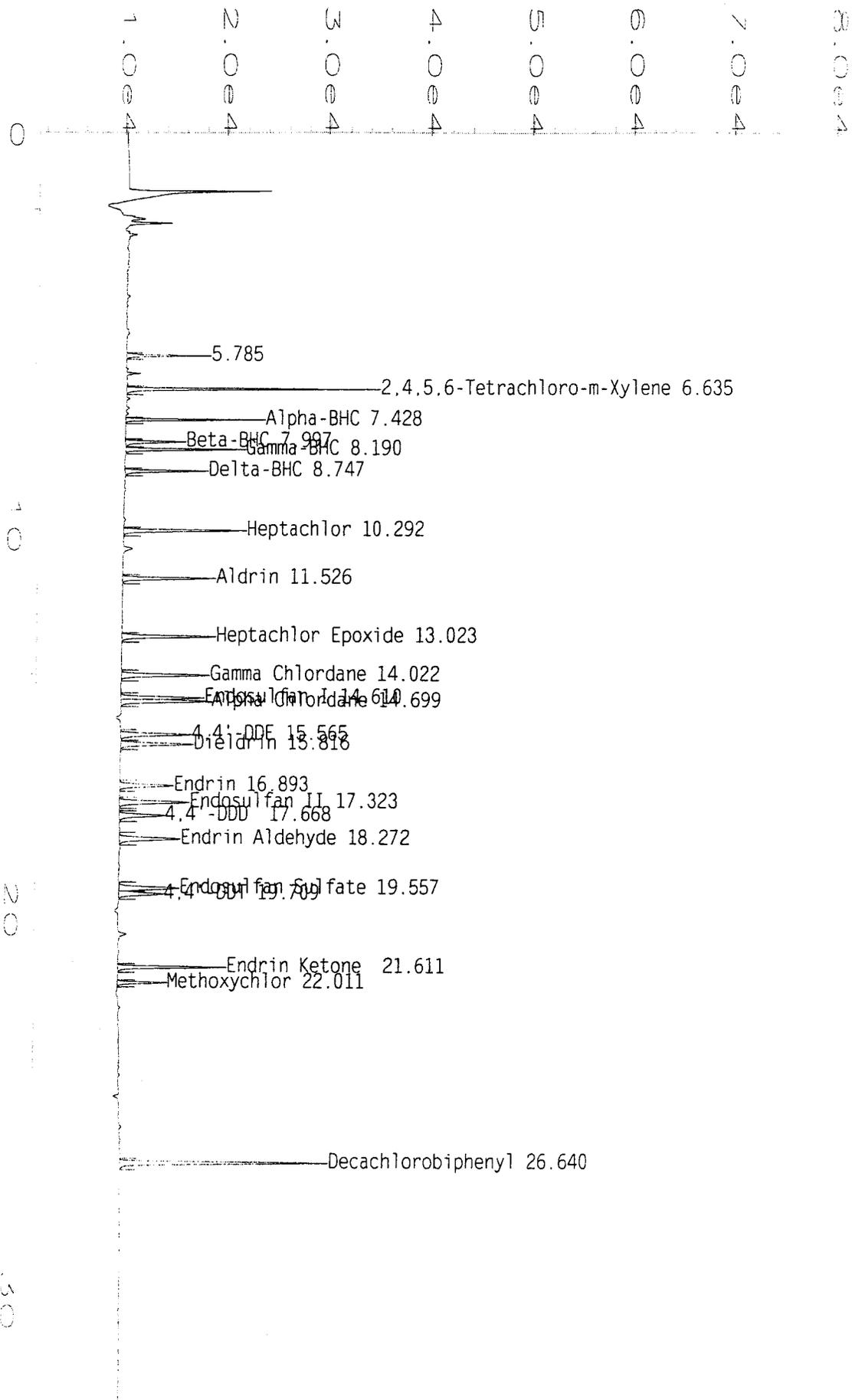


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Data File Name   : G:\HPCHEM\2\DATA\000328\036R0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 36
Sample Name     : PEST-10 S112299B                   Injection Number: 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 29 Mar 00 08:24 PM                   Instrument Method: 8081.MTH
Report Created on: 30 Mar 00 04:32 PM                 Analysis Method : PST0330R.MTH
Last Recalib on : 30 Mar 00 04:30 PM                 Sample Amount   : 0
Multiplier     : 1                                     ISTD Amount     :
  
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Sig. 2 in G:\HPCHEM\2\DATA\000328\036R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.635	63957	BB	0.038	1	16.774	2,4,5,6-Tetrachloro-m-Xylene
7.428	32057	BB	0.035	1	9.712	Alpha-BHC
7.997	19333	BB	0.048	1	9.080	Beta-BHC
8.190	31400	BB	0.041	1	9.785	Gamma-BHC
8.747	25420	BB	0.047	1	10.454	Delta-BHC
10.292	41818	BB	0.052	1	9.226	Heptachlor
11.526	33592	BB	0.056	1	9.552	Aldrin
13.023	37722	BB	0.063	1	11.029	Heptachlor Epoxide
14.022	37911	BB	0.067	1	9.538	Gamma Chlordane
14.610	34100	BV	0.063	1	9.302	Endosulfan I
14.699	39724	VB	0.067	1	9.696	Alpha Chlordane
15.565	31538	BB	0.069	1	9.847	4,4'-DDE
15.816	32069	BB	0.068	1	9.933	Dieldrin
16.893	25732	BB	0.075	1	11.392	Endrin
17.323	33989	BB	0.076	1	9.463	Endosulfan II
17.668	21778	BB	0.074	1	10.328	4,4'-DDD
18.272	31449	BB	0.080	1	8.513	Endrin Aldehyde
19.557	30923	BV	0.081	1	9.543	Endosulfan Sulfate
19.709	22784	VB	0.079	1	10.988	4,4'-DDT
21.611	36216	BB	0.052	1	8.959	Endrin Ketone
22.011	15122	BB	0.048	1	9.523	Methoxychlor
26.640	82031	BB	0.062	1	17.657	Decachlorobiphenyl



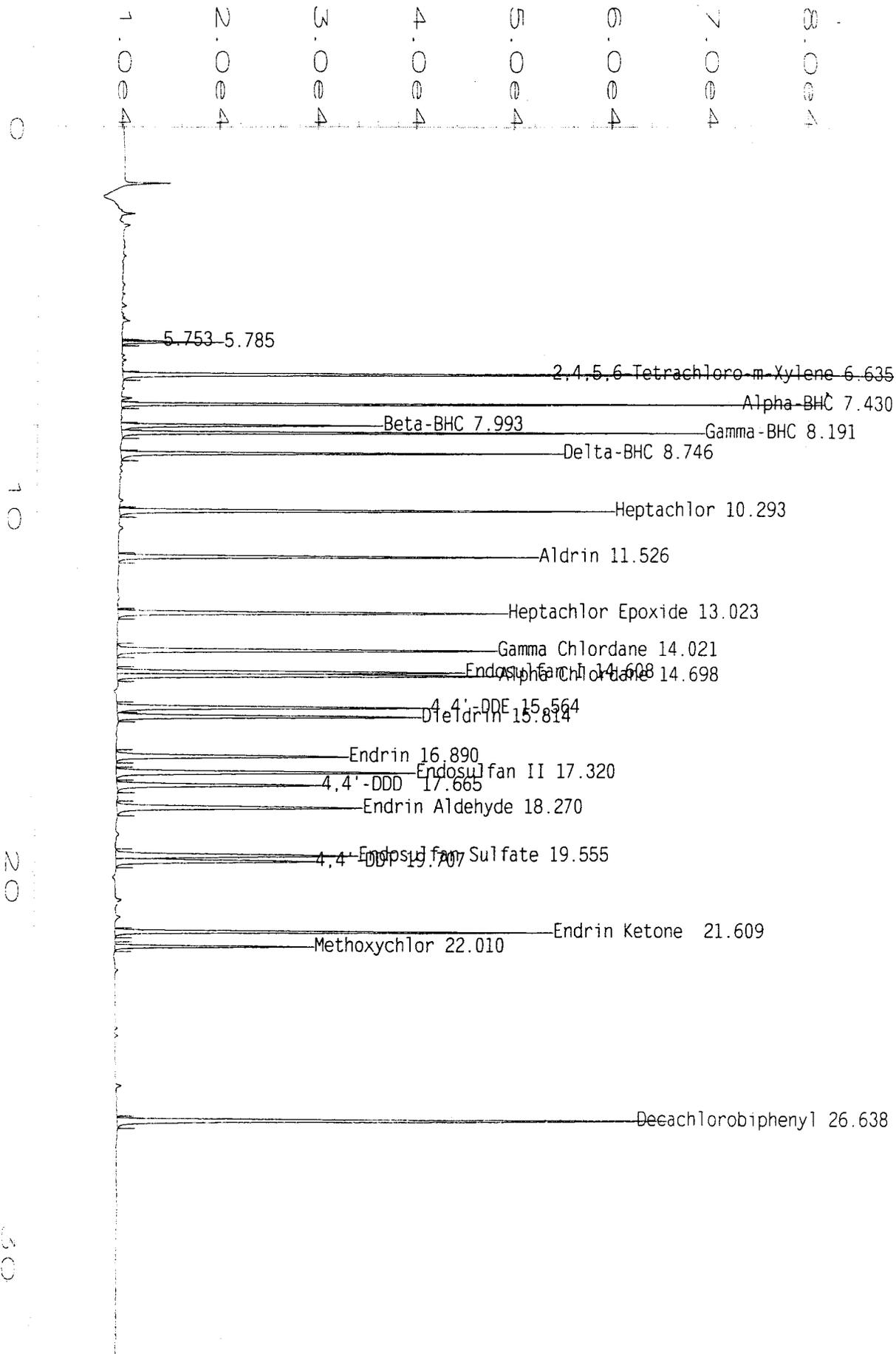
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Data File Name   : G:\HPCHEM\2\DATA\000328\037R0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 37
Sample Name     : PEST ICV S12999B                   Injection Number : 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 29 Mar 00 09:01 PM                 Instrument Method: 8081.MTH
Report Created on: 30 Mar 00 04:34 PM                Analysis Method  : PST0330R.MTH
Last Recalib on : 30 MAR 00 04:30 PM                Sample Amount   : 0
Multiplier     : 1                                    ISTD Amount     :
  
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Sig. 2 in G:\HPCHEM\2\DATA\000328\037R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.635	248464	BB	0.038	1	83.287	2,4,5,6-Tetrachloro-m-Xylene
7.430	170381	BB	0.037	1	40.958	Alpha-BHC
7.993	86535	BV	0.048	1	41.371	Beta-BHC
8.191	163369	VB	0.042	1	40.841	Gamma-BHC
8.746	139615	BB	0.047	1	40.072	Delta-BHC
10.293	175106	BB	0.053	1	40.200	Heptachlor
11.526	153248	BB	0.055	1	42.646	Aldrin
13.023	160839	BB	0.062	1	37.531	Heptachlor Epoxide
14.021	166821	BB	0.066	1	42.657	Gamma Chlordane
14.608	148019	BV	0.064	1	42.035	Endosulfan I
14.698	175514	VB	0.068	1	41.892	Alpha Chlordane
15.564	141994	BV	0.068	1	41.387	4,4'-DDE
15.814	138560	VB	0.069	1	39.890	Dieldrin
16.890	112418	BB	0.073	1	39.304	Endrin
17.320	147311	BB	0.075	1	42.317	Endosulfan II
17.665	99830	BB	0.074	1	40.395	4,4'-DDD
18.270	132507	BB	0.082	1	43.091	Endrin Aldehyde
19.555	129593	BV	0.082	1	41.981	Endosulfan Sulfate
19.707	102744	VB	0.078	1	39.200	4,4'-DDT
21.609	153566	BB	0.053	1	40.831	Endrin Ketone
22.010	63526	BB	0.048	1	41.684	Methoxychlor
26.638	228534	BB	0.062	1	63.344	Decachlorobiphenyl



PC 12NDATA\A\000328\037R0107.D



Continuing Calibration Raw Data

Geomatrix Consultants

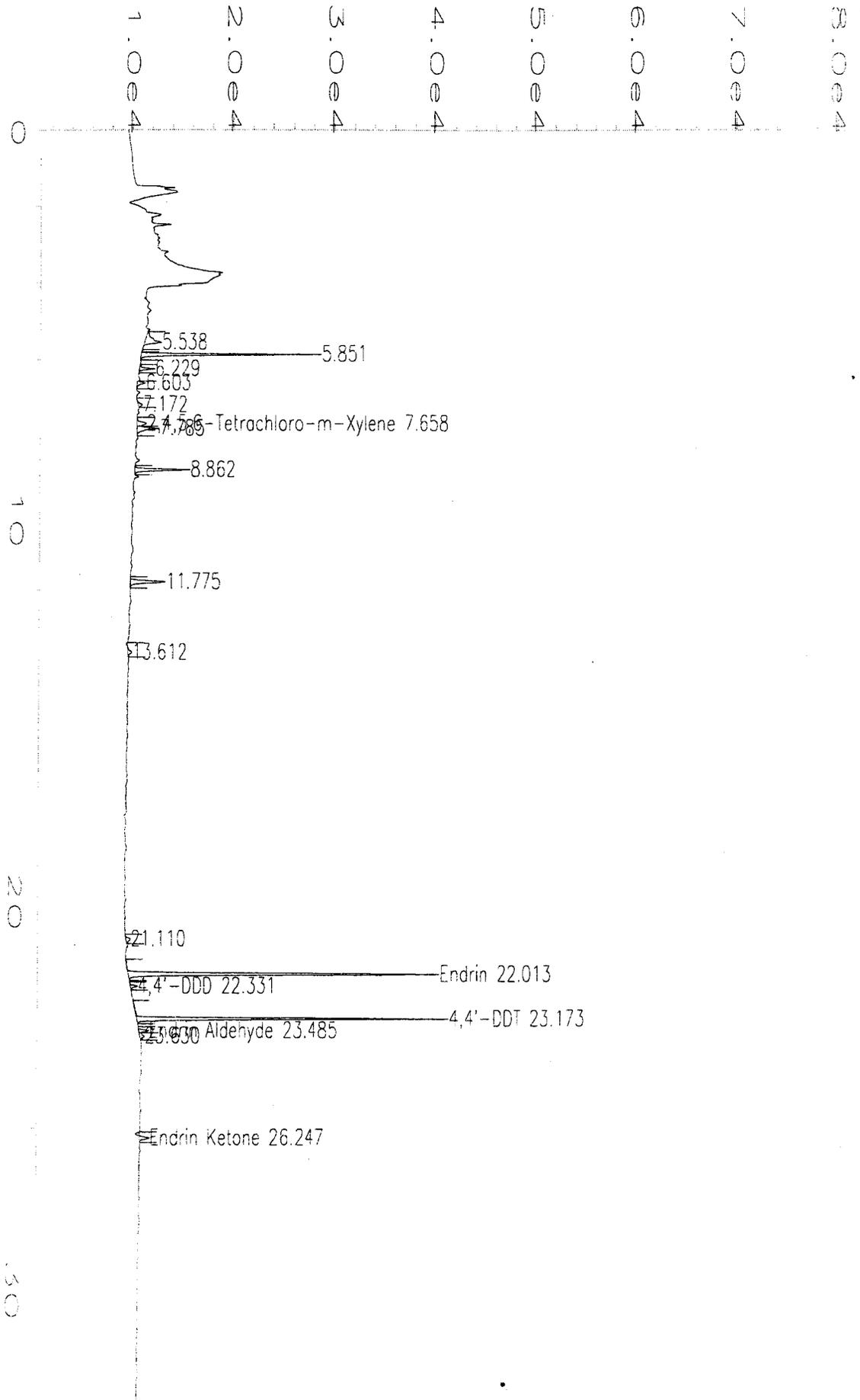
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Data File Name      : G:\HPCHEM\2\DATA\000403\025F0101.D
Operator           : GC-17                               Page Number      : 1
Instrument         : GC 17 ECD                           Vial Number      : 25
Sample Name       : EVAL S111899C                       Injection Number : 1
Run Time Bar Code :                                       Sequence Line    : 1
Acquired on      : 04 Apr 00 10:33 AM                   Instrument Method: 8081.MTH
Report Created on: 04 Apr 00 05:04 PM                   Analysis Method  : PST0404F.MTH
Last Recalib on  : 30 MAR 00 03:57 PM                   Sample Amount    : 0
Multiplier       : 1                                     ISTD Amount     :
  
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Sig. 1 in G:\HPCHEM\2\DATA\000403\025F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.658	5349	BV	0.085	1	1.473	2,4,5,6-Tetrachloro-m-Xylene
9.495	* not found *			1		Alpha-BHC
11.080	* not found *			1		Gamma-BHC
11.270	* not found *			1		Beta-BHC
12.258	* not found *			1		Heptachlor
12.684	* not found *			1		Delta-BHC
13.811	* not found *			1		Aldrin
16.630	* not found *			1		Heptachlor Epoxide
17.610	* not found *			1		Gamma Chlordane
18.500	* not found *			1		Alpha Chlordane
19.793	* not found *			1		Endosulfan I
19.982	* not found *			1		4,4'-DDE
20.480	* not found *			1		Dieldrin
22.013	108674	BB	0.055	1	47.083	Endrin
22.331	2404	BB	0.051	1	1.609	4,4'-DDD
22.500	* not found *			1		Endosulfan II
23.173	90607	BB	0.045	1	45.893	4,4'-DDT
23.485	3387	BV	0.052	1	1.192	Endrin Aldehyde
23.843	* not found *			1		Endosulfan Sulfate
25.696	* not found *			1		Methoxychlor
26.247	2459	BB	0.046	1	0.889	Endrin Ketone
30.445	* not found *			1		Decachlorobiphenyl

Not all calibrated peaks were found

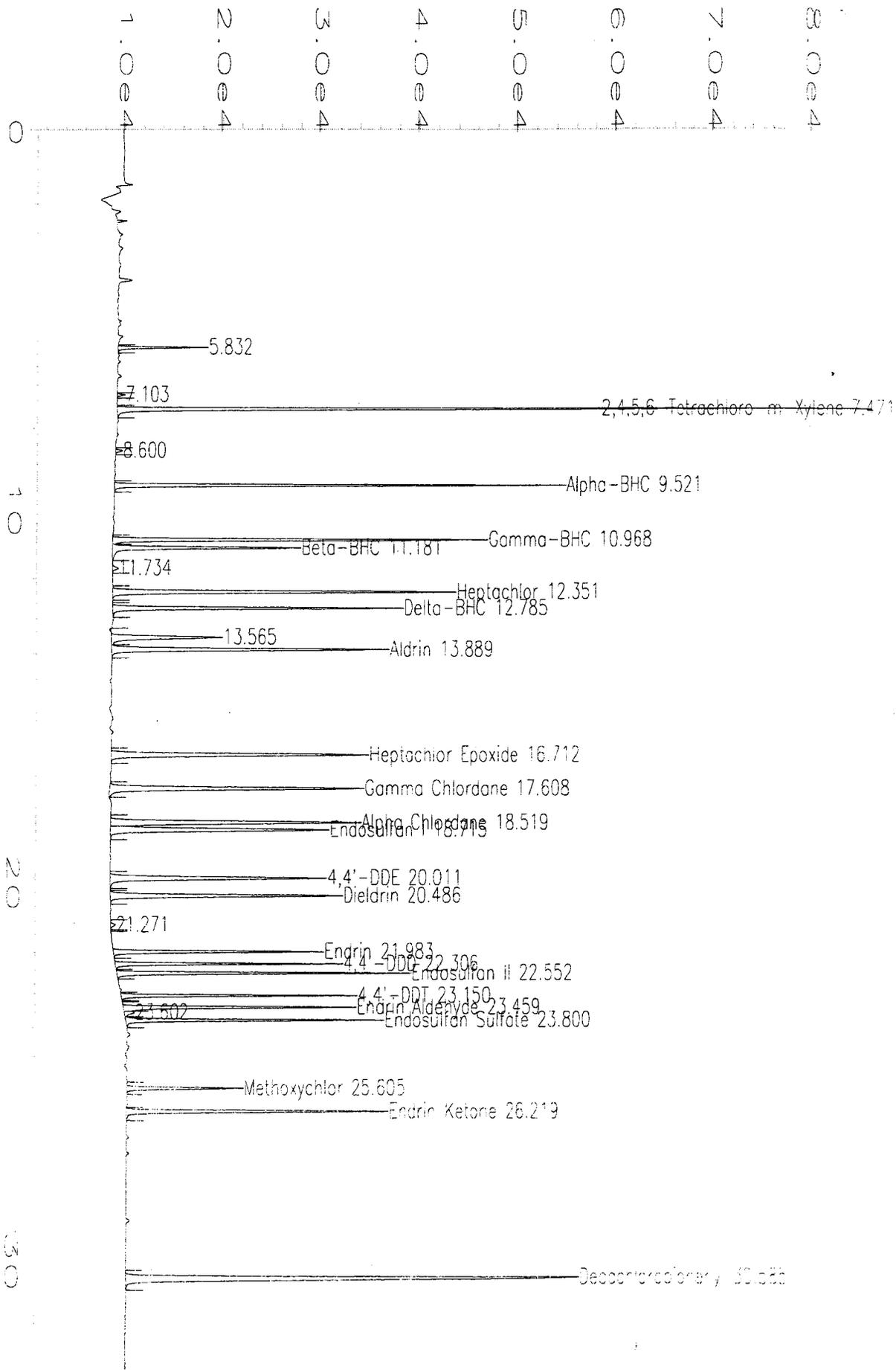


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Data File Name      : G:\HPCHEM\2\DATA\000403\027F0101.D
Operator           : GC-17                               Page Number      : 1
Instrument         : GC 17 ECD                           Vial Number      : 27
Sample Name       : PEST-40 S112299D                    Injection Number  : 1
Run Time Bar Code:                                     Sequence Line    : 1
Acquired on       : 04 Apr 00 11:48 AM                  Instrument Method: 8081.MTH
Report Created on : 04 Apr 00 12:39 PM                  Analysis Method  : PST0404F.MTH
Last Recalib on  : 30 MAR 00 03:57 PM                  Sample Amount    : 0
Multiplier        : 1                                   ISTD Amount     :
  
```

Sig. 1 in G:\HPCHEM\2\DATA\000403\027F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.471	231559	BB	0.046	1	77.374	2,4,5,6-Tetrachloro-m-Xylene
9.521	141676	BB	0.048	1	36.381	Alpha-BHC
10.968	136828	BV	0.055	1	37.238	Gamma-BHC
11.181	80275	VB	0.063	1	38.733	Beta-BHC
12.351	150009	BB	0.066	1	36.351	Heptachlor
12.785	115992	BB	0.060	1	37.988	Delta-BHC
13.889	128221	VB	0.070	1	36.989	Aldrin
16.712	133849	BB	0.079	1	36.674	Heptachlor Epoxide
17.608	138211	BV	0.083	1	36.072	Gamma Chlordane
18.519	135445	BV	0.082	1	36.620	Alpha Chlordane
8.715	121403	VB	0.084	1	34.775	Endosulfan I
20.011	115726	BB	0.080	1	35.771	4,4'-DDE
20.486	111745	BB	0.073	1	35.420	Dieldrin
21.983	73888	BB	0.053	1	33.364	Endrin
22.306	70096	BV	0.046	1	36.087	4,4'-DDD
22.552	99008	PB	0.051	1	35.673	Endosulfan II
23.150	69424	BB	0.044	1	35.869	4,4'-DDT
23.459	81960	BV	0.053	1	34.786	Endrin Aldehyde
23.800	88500	VB	0.052	1	38.137	Endosulfan Sulfate
25.605	42504	BB	0.055	1	36.266	Methoxychlor
26.219	105696	BB	0.061	1	36.619	Endrin Ketone
30.585	272455	BB	0.093	1	75.461	Decachlorobiphenyl

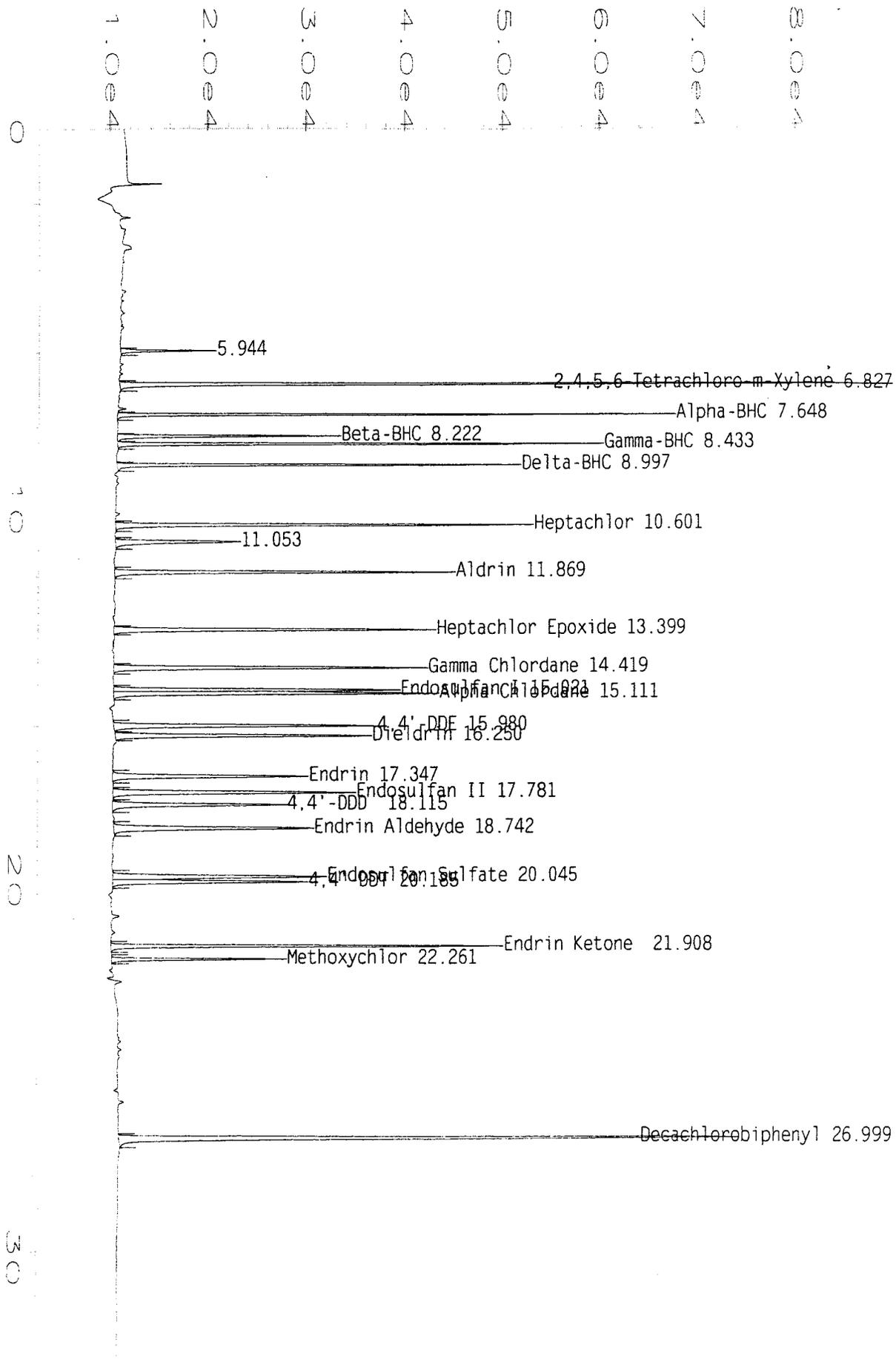


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Data File Name   : G:\HPCHEM\2\DATA\000403\027R0101.D
Operator        : GC-17                               Page Number     : 1
Instrument       : GC 17 ECD                          Vial Number     : 27
Sample Name     : PEST-40 S112299D                   Injection Number: 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 04 Apr 00 11:48 AM                 Instrument Method: 8081.MTH
Report Created on: 04 Apr 00 05:02 PM                Analysis Method : PST0404R.MTH
Last Recalib on : 30 MAR 00 04:30 PM                Sample Amount   : 0
Multiplier     : 1                                    ISTD Amount    :
  
```

Sig. 2 in G:\HPCHEM\2\DATA\000403\027R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.827	236145	BB	0.043	1	78.760	2,4,5,6-Tetrachloro-m-Xylene
7.648	143697	BB	0.039	1	34.945	Alpha-BHC
8.222	72942	BV	0.048	1	34.835	Beta-BHC
8.433	137491	VB	0.043	1	34.761	Gamma-BHC
8.997	122720	BB	0.046	1	35.690	Delta-BHC
10.601	153456	BB	0.055	1	35.162	Heptachlor
11.869	129260	BB	0.057	1	36.014	Aldrin
13.399	134498	BB	0.063	1	31.861	Heptachlor Epoxide
14.419	140609	BB	0.068	1	35.921	Gamma Chlordane
15.021	124545	BV	0.065	1	35.282	Endosulfan I
15.111	152317	VB	0.069	1	36.394	Alpha Chlordane
15.980	121090	BV	0.070	1	35.421	4,4'-DDE
16.250	118947	VB	0.070	1	34.374	Dieldrin
17.347	96440	BB	0.074	1	34.159	Endrin
17.781	122188	BB	0.076	1	35.028	Endosulfan II
18.115	85671	BB	0.074	1	34.941	4,4'-DDD
18.742	108470	BB	0.082	1	34.768	Endrin Aldehyde
20.045	114214	BV	0.081	1	36.920	Endosulfan Sulfate
20.185	93693	VB	0.072	1	36.007	4,4'-DDT
21.908	136067	BB	0.053	1	36.063	Endrin Ketone
22.261	55358	BB	0.048	1	36.253	Methoxychlor
26.999	291923	BB	0.071	1	83.603	Decachlorobiphenyl



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Data File Name   : G:\HPCHEM\2\DATA\000403\028F0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : PCB-500 S011199B
Run Time Bar Code:
Acquired on    : 04 Apr 00 12:25 PM
Report Created on: 04 Apr 00 05:05 PM

Page Number     : 1
Vial Number     : 28
Injection Number: 1
Sequence Line   : 1
Instrument Method: 8081.MTH
Analysis Method  : PCB.MTH
    
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Sig. 1 in G:\HPCHEM\2\DATA\000403\028F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.833	32346	12194	BB	0.040	1.1902
2	7.471	324453	107833	BB	0.046	11.9389
3	9.149	7634	2028	BB	0.057	0.2809
4	9.369	36189	9347	BB	0.059	1.3317
5	10.862	80971	14499	BB	0.089	2.9795
6	11.733	22419	5459	BV	0.063	0.8250
7	11.825	14567	3283	VV	0.066	0.5360
8	12.090	29845	6722	VV	0.068	1.0982
9	12.295	63383	15746	PV	0.061	2.3323
10	12.381	106062	20032	VB	0.078	3.9028
11	13.098	43053	9797	BV	0.070	1.5842
12	13.750	78867	11550	VV	0.109	2.9021
13	14.017	37133	7331	VV	0.077	1.3664
14	14.167	17845	3393	VV	0.079	0.6566
15	14.359	28554	3532	VB	0.111	1.0507
16	15.413	59963	9416	BV	0.094	2.2064
17	15.643	21169	3821	VB	0.084	0.7789
18	15.943	13931	2912	BV	0.075	0.5126
19	16.073	26449	5071	VB	0.080	0.9732
20	17.156	15012	2323	BB	0.103	0.5524
21	17.572	39014	6210	BB	0.095	1.4356
22	17.885	39092	7220	BB	0.085	1.4385
23	20.817	65067	11090	BV	0.095	2.3943
24	21.069	6769	1977	PV	0.054	0.2491
25	21.152	10869	2967	VV	0.056	0.3999
26	21.247	9326	2736	VV	0.055	0.3432
27	21.557	100569	22079	BV	0.070	3.7006
28	21.841	110940	28634	PB	0.059	4.0823
29	22.486	38933	11656	BV	0.052	1.4326
30	22.886	58550	17348	BV	0.052	2.1544
31	22.990	45762	13070	VV	0.053	1.6839
32	23.134	86134	24385	VV	0.054	3.1695
33	23.213	74918	21449	VV	0.052	2.7568
34	23.390	37867	11694	VV	0.050	1.3934
35	23.778	11122	3459	BB	0.050	0.4093
36	24.223	55253	16153	VV	0.053	2.0331

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389820

(C)=424

h=205

565877

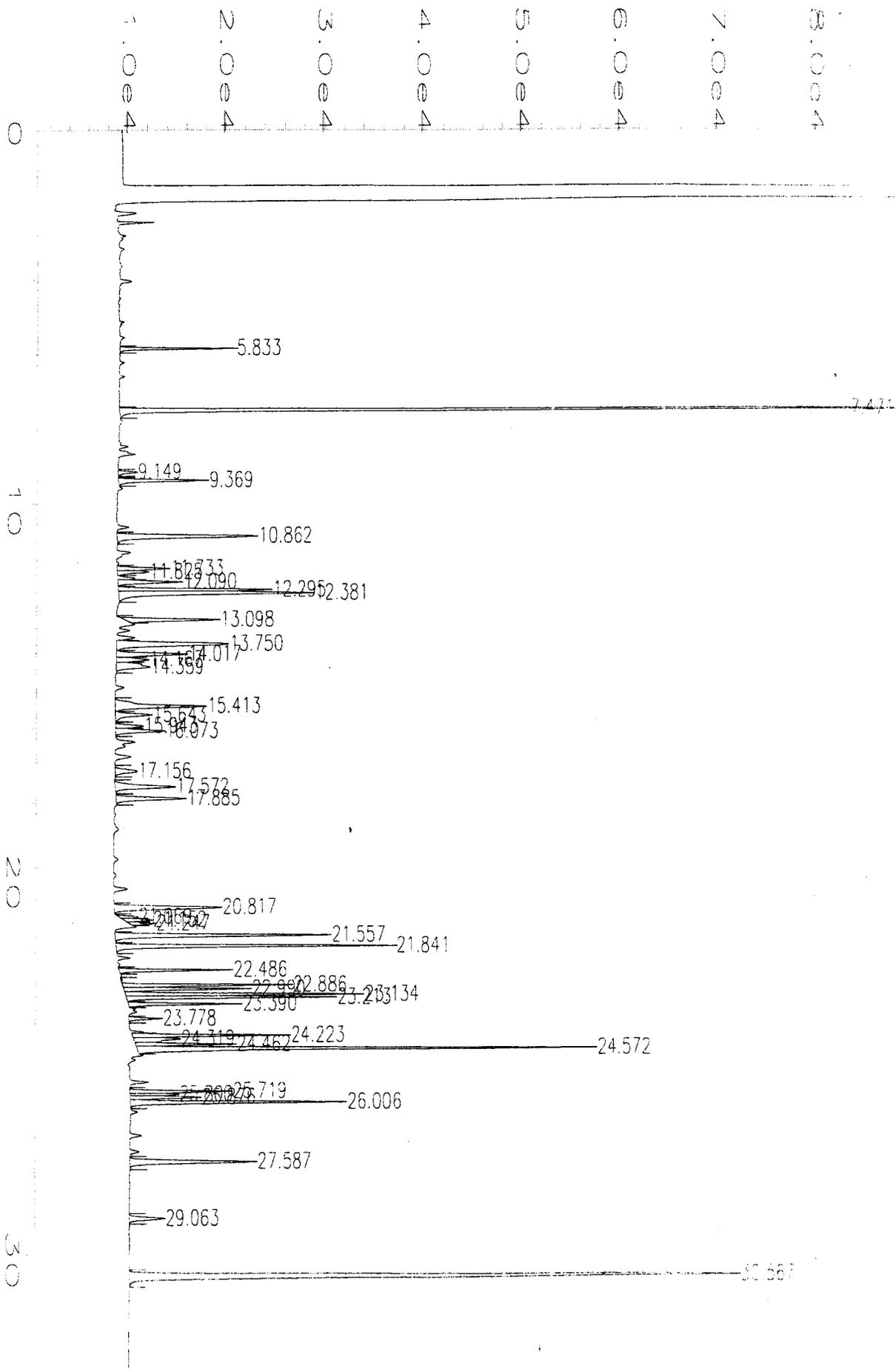
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37	24.319	26225	4841	VV	0.077	0.9650
38	24.462	36243	10340	VV	0.054	1.3336 ²⁰⁴
39	24.572	181194	46901	VV	0.058	6.6674
40	25.719	39596	10517	BV	0.058	1.4570
41	25.800	16434	5032	VV	0.048	0.6047
42	25.876	28459	7334	VV	0.059	1.0472
43	26.006	88653	22085	VB	0.062	3.2622
44	27.587	67645	13050	BB	0.079	2.4891
45	29.063	17713	3672	BB	0.075	0.6518
46	30.567	365426	62322	BB	0.092	13.4466

Total area = 2717617

=====



DATA\0004\03\028\F0101.D



Instrument Run Log

Geomatrix Consultants

INSTRUMENT LOGBOOK

Calscience Environmental Laboratories, Inc.

Date Loaded	Pos	Directory	Data File	CEL ID #	Mtx	Amount Loaded	pH <2	IS/SS	Lot #	Cal. Std.	By	Comments
03/27/00	29	000326	070F0101	163 PT 0527-7	NA	2ul	NA				TN	
03/29/00	30	001360	030	Eval					S117899C			
	31	031	031	Prot-40					S1122490			
	32	032	032	-80						F		
	33	033	033	-60						E		
	34	034	034	-40						D		
	35	035	035	-20						C		
	36	036	036	-10						B		
	37	037	037	Prot ICV					S12499B			
	38	038	038	PCB-2K					S110499A			
	39	039	039	-1K						B		
	40	040	040	-500					S110199A			
	41	041	041	-200					S110499C			
	42	042	042	-100						D		
	43	043	043	-ICV					S012100A			
	44	044	044	122.1					S110199B			
	45	045	045	123.2						C		
	46	046	046	124.2						D		
	47	047	047	124.3						E		
	48	048	048	125.4						F		

INSTRUMENT LOGBOOK

Calscience Environmental Laboratories, Inc.

Date Loaded	Pos	Directory	Data File	CEL ID #	Mtx Loaded	Amount pH <2	IS/SS	Lot #	Cal. Std.	By	Comments
03/29/00	49	000328	049F0101	1262	NA	2ml	NA	S110199A	N		
	50		0520	child 100				S07000F			
	51		0521	200				E			
	52		0522	500				D			
	53		0523	1K				C			
	54		0524	2K				B			
	55		0525	TOX 100				M			
	56		0526	2000				E			
	57		0527	2000				J			
	58		0528	500				K			
	59		0529	200				L			
	60		060	chl 100				F			
	61		061	child ICU				D			
	62		062	TOX. ICU				O			
	63		063	Eval				S111049C			
07/20/00	1	000330	001F0101	Eval							
	2		002	Post-40							
	3		003	PCA-500				S112299D			
	4		004	MB 0328-2				S110199A			
	5		005	ICS							

INSTRUMENT LOGBOOK

Calscience Environmental Laboratories, Inc.

Date Loaded	Pos	Directory	Data File	CEL ID #	Mtx	Amount Loaded	pH <2	IS/SS	Lot #	Cal. Std.	By	Comments
01/03/00	7	000463	007F0101	03 1137.45	NA	2.1	NA				ML	
	8		008	-47								
	9		009	-51								
	10		010	-53								
	11		011	57								
	12		012	-61								
	13		013	-67								
	14		014	-71								
	15		015	-75								
	16		016	-77								
	17		017	-81								
	18		018	85								
	19		019	-91								
	20		020	-95								
	21		021	99								
	22		022	Eval								
	23		023	Post. 40								
	24		024	PCA 500								
	25		025	Eval								
04/00	26		026	Child 500								
									SM1219C			
									SM1219D			
									SM1219A			
									SM18 99C			
									50300D			

INSTRUMENT LOGBOOK

Calscience Environmental Laboratories, Inc.

Date Loaded	Pos	Directory	Data File	CEL ID #	Mtx Loaded	Amount pH	ISISS	Lot #	Cal. Std.	By	Comments
04/08/00	27	000400E	027F 0101	pent-40	NA	2gal	NA	S110199A		TN	
	28		028	PCB-500							
	29		029	Mh 0530-3							
	30		030	LCS							
	31		031	LCS							
	32		032	LCS PB ↓ 02-1137-5 + 10X							
	33		033	03-1137-5 + 10X							
	34		034	↓ - 57 10X							
	35		035	↓ - 67 10X							
	36		036	↓ - 61 10X ↓ - 85 10X							
	37		037	LCS PB - 85 10X							
	38		038	LCS PB 0330-3							
	39		039	03-1092-4 10X							
	40		040	↓ - 5							
	41		041	↓ - 6							
	42		042	↓ - 7							
	43		043	↓ - 1 20X							
	44		044	↓ - 2 10X							
	45		045	↓ - 3 50X							
	46		046	02-1136-1							
				Eval							

INSTRUMENT LOGBOOK

Calscience Environmental Laboratories, Inc.

Date	Pos	Directory	Data File	CEL ID #	Mtx	Amount Loaded	pH <2	IS/SS	Lot #	Cal. Std.	By	Comments
10/20/00	47	000403	047F0101	Pert-40	MA	241	N/A		S11299D		TP	
J	48	↓	048F ↓	PtB-500					S110199A			
10/5/00	1	000405	001F0101									
	2		002									
	3		003									
	4		004									
	5		005									
	6		006									
	7		007									
	8		008									
	9		009									
	10		010									
	11		011									
	12		012									
	13		013									
	14		014									
	15		015									
	16		016									
	17		017									
	18		018									



Samples Raw Data

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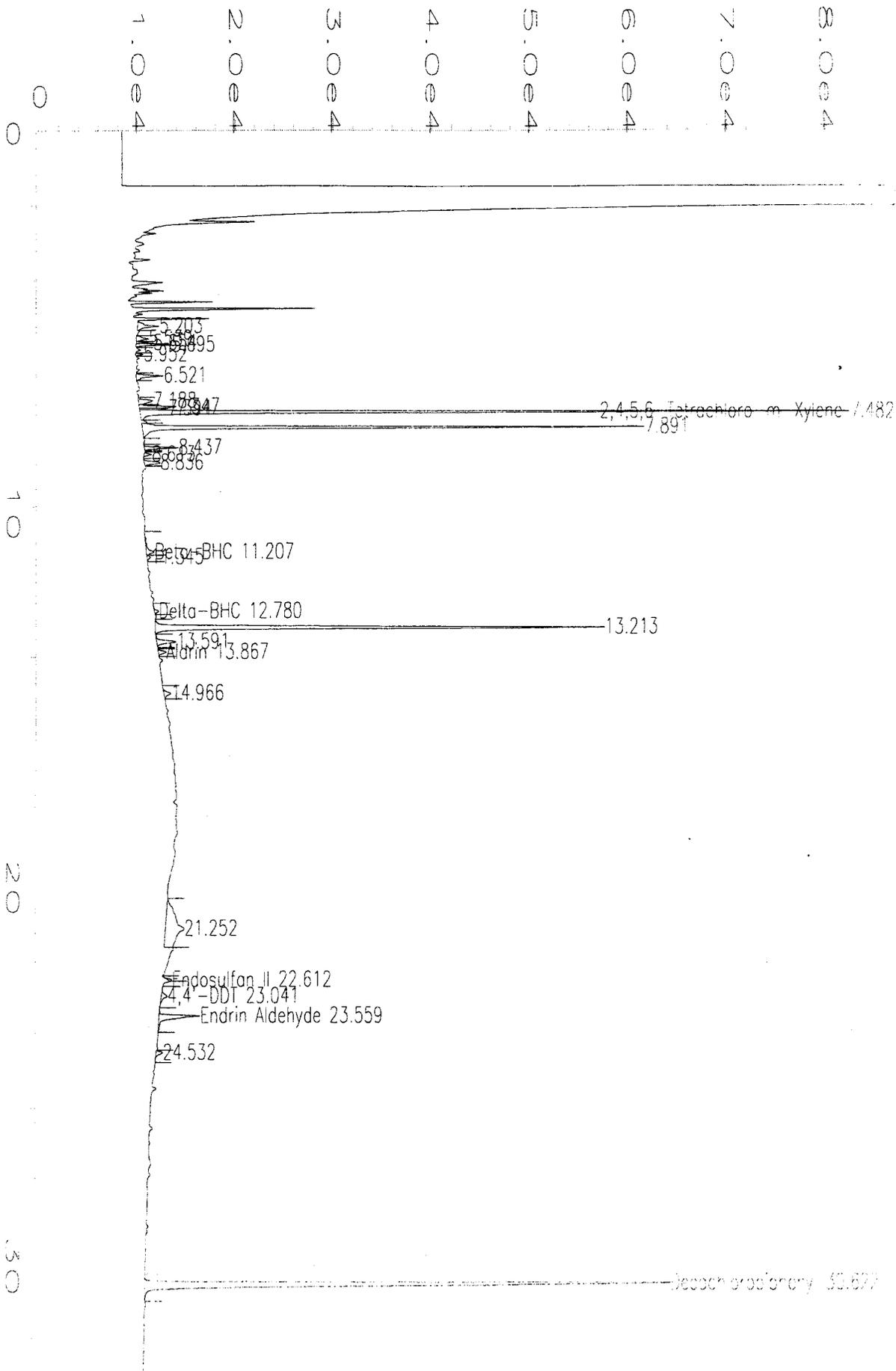
Data File Name      : G:\HPCHEM\2\DATA\000403\045F0101.D
Operator           : GC-17                               Page Number        : 1
Instrument         : GC 17 ECD                           Vial Number        : 45
Sample Name       : 03-1138-1                           Injection Number   : 1
Run Time Bar Code:                                       Sequence Line      : 1
Acquired on       : 04 Apr 00 10:59 PM                  Instrument Method  : 8081.MTH
Report Created on : 05 Apr 00 09:39 AM                  Analysis Method   : PST0404F.MTH
Last Recalib on  : 30 MAR 00 03:57 PM                  Sample Amount     : 0
Multiplier        : 1                                    ISTD Amount       :

```

Sig. 1 in G:\HPCHEM\2\DATA\000403\045F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.482	223266	VV	0.047	1	74.380	2,4,5,6-Tetrachloro-m-Xylene
9.495	* not found *			1		Alpha-BHC
10.980	* not found *			1		Gamma-BHC
11.207	6285	BV	0.110	1	3.208	Beta-BHC(z)
12.258	* not found *			1		Heptachlor
12.780	1733	BV	0.066	1	1.146	Delta-BHC /
13.867	3972	BB	0.077	1	1.252	Aldrin(z)
16.630	* not found *			1		Heptachlor Epoxide
17.610	* not found *			1		Gamma Chlordane
18.500	* not found *			1		Alpha Chlordane
18.793	* not found *			1		Endosulfan I
19.982	* not found *			1		4,4'-DDE
20.480	* not found *			1		Dieldrin
21.960	* not found *			1		Endrin
22.261	* not found *			1		4,4'-DDD
22.612	1378	PBA	0.066	1	0.504	Endosulfan II(z)
23.041	4936	BV	0.119	1	3.345	4,4'-DDT(z)
23.559	24350	PB	0.079	1	8.566	Endrin Aldehyde(z)
23.843	* not found *			1		Endosulfan Sulfate
25.696	* not found *			1		Methoxychlor
26.163	* not found *			1		Endrin Ketone
30.622	316314	BB	0.092	1	89.159	Decachlorobiphenyl

Not all calibrated peaks were found



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=====
Data File Name      : G:\HPCHEM\2\DATA\000403\045R0101.D
Operator           : GC-17                               Page Number      : 1
Instrument         : GC 17 ECD                           Vial Number      : 45
Sample Name        : 03-1138-1                           Injection Number : 1
Run Time Bar Code :                                       Sequence Line    : 1
Acquired on       : 04 Apr 00 10:59 PM                   Instrument Method: 8081.MTH
Report Created on : 05 Apr 00 09:48 AM                   Analysis Method  : PST0404R.MTH
Last Recalib on  : 30 MAR 00 04:30 PM                   Sample Amount    : 0
Multiplier        : 1                                    ISTD Amount     :
=====

```

Fig. 2 in G:\HPCHEM\2\DATA\000403\045R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.825	231161	BV	0.039	1	76.929	2,4,5,6-Tetrachloro-m-Xylene
7.626	* not found *			1		Alpha-BHC
8.162	497721	BB	0.045	1	239.087	Beta-BHC (RT 11)
8.587	* not found *			1		Gamma-BHC
8.987	5141	VV	0.063	1	2.172	Delta-BHC ✓
10.489	* not found *			1		Heptachlor
11.722	* not found *			1		Aldrin
13.429	7368872	VB	0.086	1	1589.154	Heptachlor Epoxide
14.216	* not found *			1		Gamma Chlordane
15.000	* not found *			1		Endosulfan I
15.100	* not found *			1		Alpha Chlordane
15.855	* not found *			1		4,4'-DDE
16.112	* not found *			1		Dieldrin
17.188	* not found *			1		Endrin
17.965	* not found *			1		Endosulfan II
18.056	* not found *			1		4,4'-DDD
18.625	* not found *			1		Endrin Aldehyde
19.893	19078	BB	0.087	1	5.887	Endosulfan Sulfate
20.200	* not found *			1		4,4'-DDT
21.808	* not found *			1		Endrin Ketone
22.207	* not found *			1		Methoxychlor
26.998	333632	BB	0.067	1	96.933	Decachlorobiphenyl

Not all calibrated peaks were found



LCS/LCSD QC Data

Geomatrix Consultants

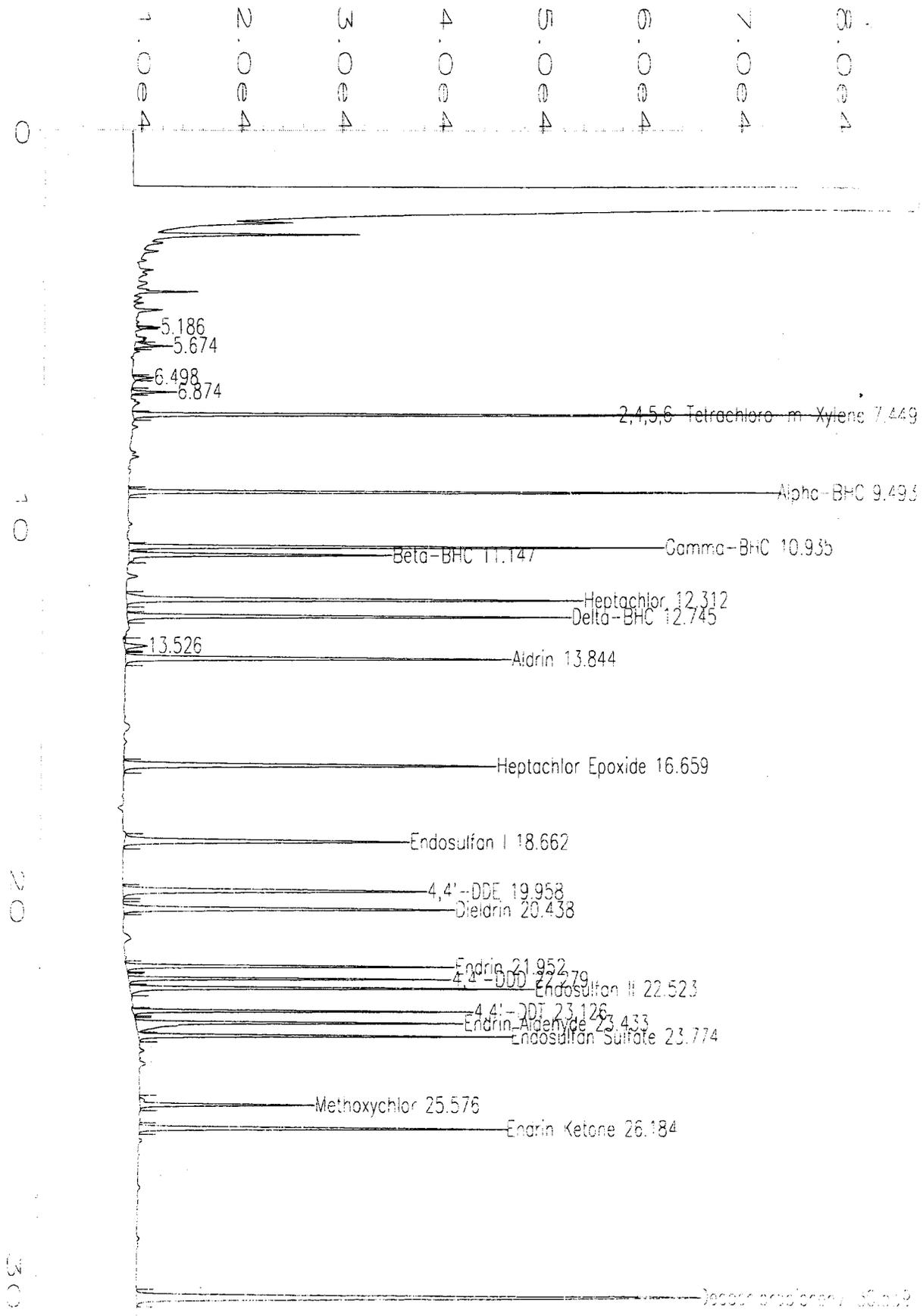
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Data File Name   : G:\HPCHEM\2\DATA\000403\030F0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 30
Sample Name     : LCS PT 0330-3                       Injection Number: 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 04 Apr 00 01:39 PM                   Instrument Method: 8081.MTH
Report Created on: 05 Apr 00 09:31 AM                 Analysis Method : PST0404F.MTH
Last Recalib on : 30 MAR 00 03:57 PM                 Sample Amount   : 0
Multiplier     : 1                                     ISTD Amount     :
  
```

Sig. 1 in G:\HPCHEM\2\DATA\000403\030F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.449	212210	BB	0.045	1	70.389	2,4,5,6-Tetrachloro-m-Xylene
9.493	205387	BB	0.049	1	50.815	Alpha-BHC
10.935	191378	BV	0.055	1	50.510	Gamma-BHC
11.147	106740	VB	0.062	1	51.264	Beta-BHC
12.312	200055	BB	0.067	1	48.323	Heptachlor
12.745	173712	BB	0.061	1	54.004	Delta-BHC
13.844	179962	BB	0.072	1	51.460	Aldrin
16.659	187845	BB	0.079	1	51.325	Heptachlor Epoxide
17.610	* not found *			1		Gamma Chlordane
18.500	* not found *			1		Alpha Chlordane
3.662	154410	BB	0.084	1	43.920	Endosulfan I
9.958	159643	BB	0.081	1	48.696	4,4'-DDE
20.438	157833	BB	0.074	1	49.282	Dieldrin
21.952	115176	BB	0.054	1	49.648	Endrin
22.279	98307	BB	0.047	1	49.430	4,4'-DDD
22.523	136576	BB	0.051	1	49.131	Endosulfan II
23.126	99138	BB	0.045	1	49.929	4,4'-DDT
23.433	131196	BV	0.059	1	57.581	Endrin Aldehyde
23.774	123301	VB	0.051	1	53.195	Endosulfan Sulfate
25.576	64918	BB	0.057	1	55.342	Methoxychlor
26.184	143729	BB	0.061	1	49.591	Endrin Ketone
30.539	333237	BB	0.092	1	94.444	Decachlorobiphenyl

Not all calibrated peaks were found



1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000

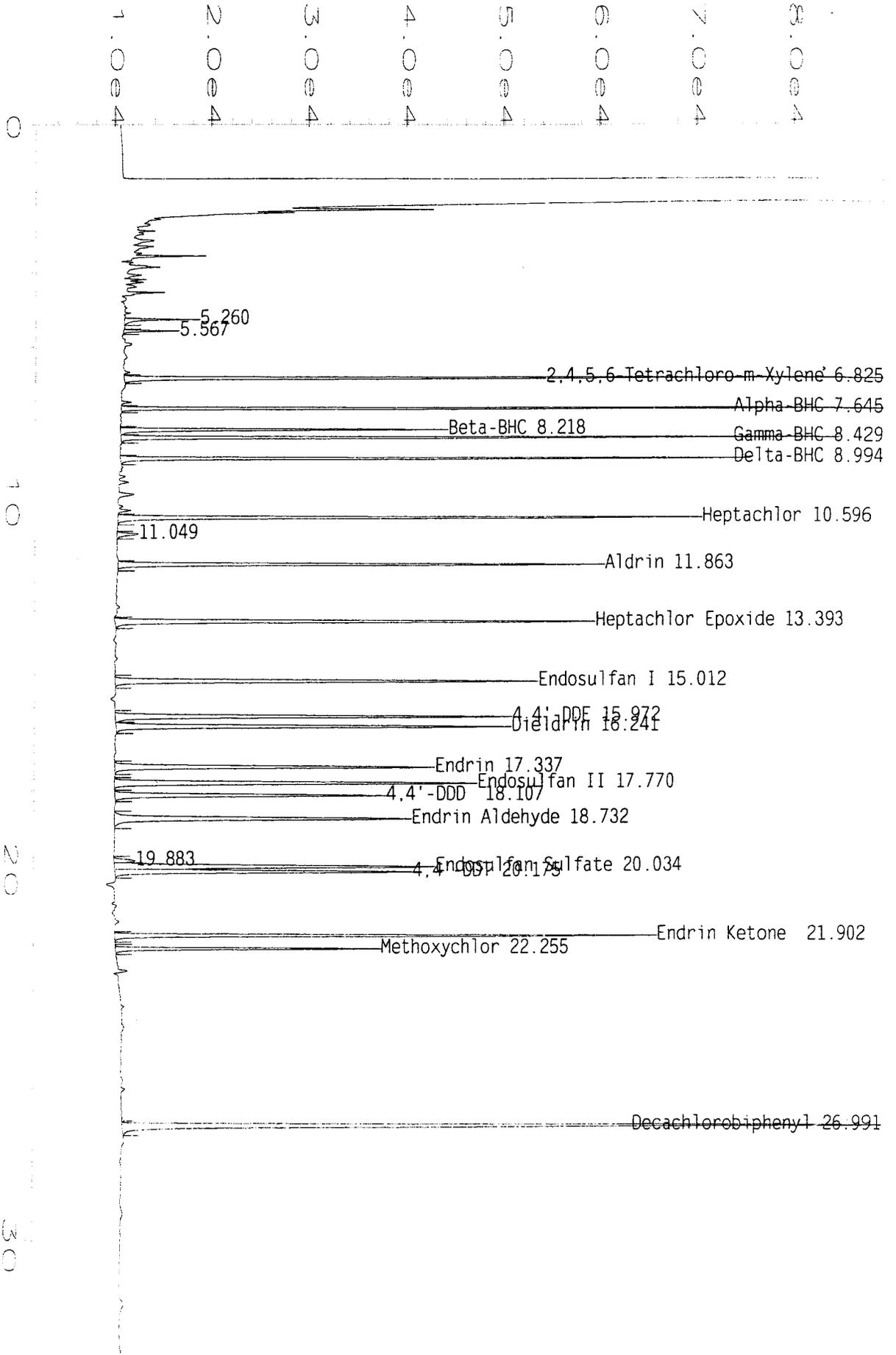
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Data File Name      : G:\HPCHEM\2\DATA\000403\030R0101.D
Operator           : GC-17                               Page Number      : 1
Instrument         : GC 17 ECD                           Vial Number     : 30
Sample Name       : LCS PT 0330-3                       Injection Number : 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on       : 04 Apr 00 01:39 PM                 Instrument Method: 8081.MTH
Report Created on : 05 Apr 00 09:45 AM                 Analysis Method  : PST0404R.MTH
Last Recalib on  : 30 MAR 00 04:30 PM                 Sample Amount   : 0
Multiplier        : 1                                   ISTD Amount     :
  
```

Sig. 2 in G:\HPCHEM\2\DATA\000403\030R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.825	232866	BB	0.041	1	77.555	2,4,5,6-Tetrachloro-m-Xylene
7.645	217496	BB	0.039	1	51.576	Alpha-BHC
8.218	108259	BV	0.049	1	51.817	Beta-BHC
8.429	209150	VB	0.043	1	51.596	Gamma-BHC
8.994	199065	BB	0.047	1	55.492	Delta-BHC
10.596	216141	BB	0.055	1	49.748	Heptachlor
11.863	185001	BB	0.057	1	51.424	Aldrin
13.393	211405	BB	0.066	1	48.416	Heptachlor Epoxide
14.216	* not found *			1		Gamma Chlordane
15.012	195944	BB	0.070	1	55.822	Endosulfan I
15.100	* not found *			1		Alpha Chlordane
15.972	182111	BV	0.069	1	52.838	4,4'-DDE
16.241	185510	VB	0.071	1	53.095	Dieldrin
17.337	157520	BB	0.075	1	53.826	Endrin
17.770	183553	BB	0.077	1	52.831	Endosulfan II
18.107	129439	BB	0.072	1	51.801	4,4'-DDD
18.732	164035	BB	0.082	1	54.008	Endrin Aldehyde
20.034	174375	VV	0.083	1	56.717	Endosulfan Sulfate
20.175	146036	VB	0.074	1	54.475	4,4'-DDT
21.902	192313	BB	0.054	1	51.390	Endrin Ketone
22.255	86566	BB	0.049	1	57.006	Methoxychlor
26.991	365643	BB	0.071	1	107.164	Decachlorobiphenyl

Not all calibrated peaks were found



WSPNDA\A000403\030R07 07 0

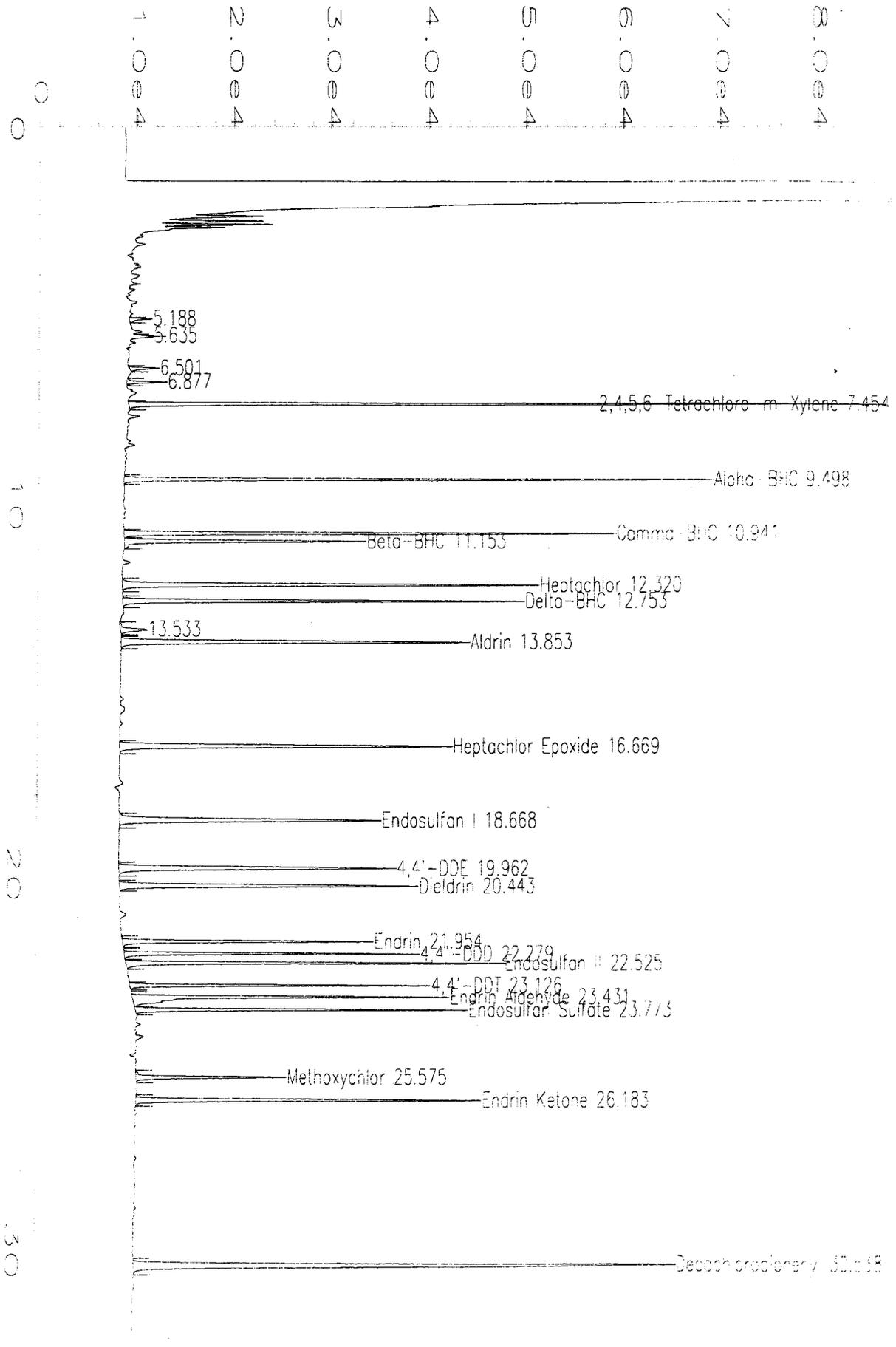
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Data File Name      : G:\HPCHEM\2\DATA\000403\031F0101.D
Operator           : GC-17                               Page Number      : 1
Instrument         : GC 17 ECD                           Vial Number      : 31
Sample Name       : LCSD PT 0330-3                       Injection Number : 1
Run Time Bar Code:                                       Sequence Line    : 1
Acquired on       : 04 Apr 00 02:16 PM                   Instrument Method: 8081.MTH
Report Created on : 05 Apr 00 09:32 AM                   Analysis Method  : PST0404F.MTH
Last Recalib on  : 30 MAR 00 03:57 PM                   Sample Amount    : 0
Multiplier        : 1                                    ISTD Amount     :
  
```

Sig. 1 in G:\HPCHEM\2\DATA\000403\031F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.454	229315	BB	0.045	1	76.564	2,4,5,6-Tetrachloro-m-Xylene
9.498	190123	BB	0.048	1	47.357	Alpha-BHC
10.941	179022	BV	0.055	1	47.504	Gamma-BHC
11.153	98823	VB	0.061	1	47.515	Beta-BHC
12.320	182221	BB	0.066	1	44.057	Heptachlor
12.753	159945	BB	0.060	1	50.184	Delta-BHC
13.853	163207	BB	0.071	1	46.774	Aldrin
16.669	174662	BB	0.080	1	47.748	Heptachlor Epoxide
17.610	* not found *			1		Gamma Chlordane
18.500	* not found *			1		Alpha Chlordane
3.668	146931	BB	0.085	1	41.848	Endosulfan I
19.962	146461	BB	0.079	1	44.816	4,4'-DDE
20.443	145092	BB	0.073	1	45.450	Dieldrin
21.954	90661	BB	0.054	1	39.979	Endrin
22.279	91898	BB	0.047	1	46.399	4,4'-DDD
22.525	130967	BB	0.052	1	47.122	Endosulfan II
23.126	88116	BB	0.044	1	44.713	4,4'-DDT
23.431	131319	BV	0.059	1	57.638	Endrin Aldehyde
23.773	113027	VB	0.051	1	48.750	Endosulfan Sulfate
25.575	56586	BB	0.057	1	48.251	Methoxychlor
26.183	138275	BB	0.061	1	47.731	Endrin Ketone
30.538	323795	BB	0.091	1	91.495	Decachlorobiphenyl

Not all calibrated peaks were found



1.00e4 0.00e4

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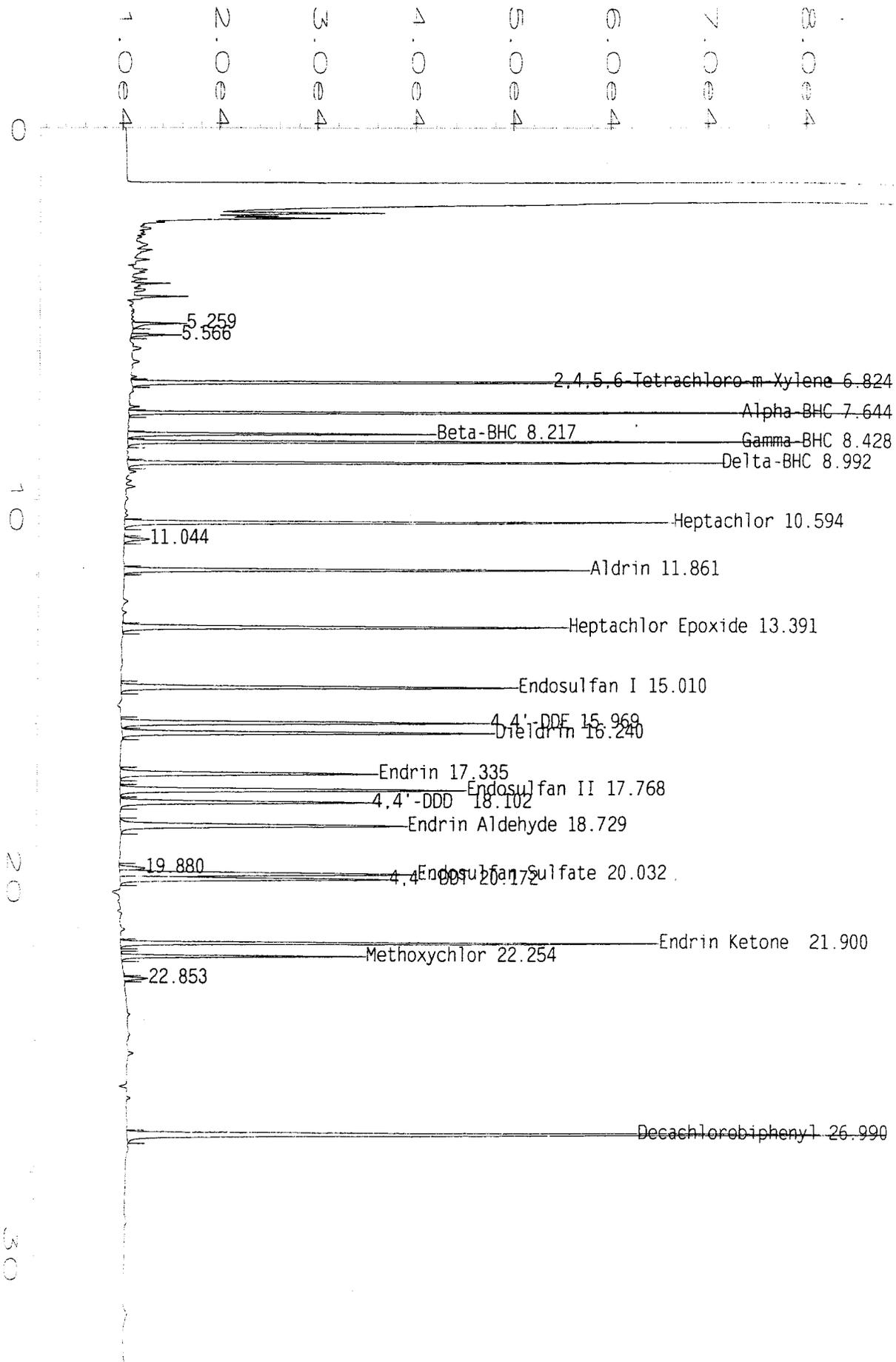
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Data File Name      : G:\HPCHEM\2\DATA\000403\031R0101.D
Operator           : GC-17                               Page Number      : 1
Instrument         : GC 17 ECD                           Vial Number      : 31
Sample Name       : LCSD PT 0330-3                       Injection Number : 1
Run Time Bar Code:                                       Sequence Line    : 1
Acquired on       : 04 Apr 00 02:16 PM                   Instrument Method: 8081.MTH
Report Created on : 05 Apr 00 09:45 AM                     Analysis Method  : PST0404R.MTH
Last Recalib on  : 30 MAR 00 04:30 PM                     Sample Amount    : 0
Multiplier        : 1                                       ISTD Amount     :
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Sig. 2 in G:\HPCHEM\2\DATA\000403\031R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.824	240257	BB	0.041	1	80.271	2,4,5,6-Tetrachloro-m-Xylene
7.644	202658	BB	0.039	1	48.232	Alpha-BHC
8.217	100835	BV	0.048	1	48.247	Beta-BHC
8.428	194002	PB	0.043	1	48.037	Gamma-BHC
8.992	182919	BB	0.046	1	51.304	Delta-BHC
10.594	200555	BB	0.055	1	46.122	Heptachlor
11.861	175798	BB	0.057	1	48.880	Aldrin
13.391	192844	BB	0.066	1	44.421	Heptachlor Epoxide
14.216	* not found *			1		Gamma Chlordane
15.010	180929	BB	0.070	1	51.502	Endosulfan I
5.100	* not found *			1		Alpha Chlordane
15.969	169861	BV	0.070	1	49.341	4,4'-DDE
16.240	171388	VB	0.070	1	49.123	Dieldrin
17.335	126366	BB	0.075	1	43.795	Endrin
17.768	172891	BB	0.076	1	49.738	Endosulfan II
18.102	121429	BB	0.073	1	48.716	4,4'-DDD
18.729	158678	BB	0.084	1	52.153	Endrin Aldehyde
20.032	161484	VV	0.082	1	52.475	Endosulfan Sulfate
20.172	131216	VB	0.074	1	49.246	4,4'-DDT
21.900	185222	BB	0.052	1	49.458	Endrin Ketone
22.254	77312	BB	0.047	1	50.852	Methoxychlor
26.990	352505	BB	0.070	1	102.965	Decachlorobiphenyl

Not all calibrated peaks were found



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=====
Data File Name   : G:\HPCHEM\2\DATA\000403\032F0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 32
Sample Name     : LCS PB 0330-3                       Injection Number : 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 04 Apr 00 02:54 PM                   Instrument Method: 8081.MTH
Report Created on: 05 Apr 00 09:49 AM                 Analysis Method  : PCB.MTH
=====

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Sig. 1 in G:\HPCHEM\2\DATA\000403\032F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.176	4693	1862	VV	0.038	0.3105
2	5.447	3525	1092	PV	0.046	0.2333
3	5.510	7593	2088	VV	0.055	0.5024
4	5.621	8575	3271	VV	0.038	0.5674
5	5.663	12115	4633	VV	0.038	0.8017
6	6.484	12943	3863	BV	0.050	0.8565
7	6.862	14529	4760	BV	0.046	0.9615
8	7.152	7858	1281	VV	0.086	0.5200
9	7.437	213423	71037	VV	0.046	14.1236
10	8.439	2323	681	BV	0.054	0.1537
11	8.560	1009	460	PV	0.036	0.0667
12	9.106	2991	716	BV	0.063	0.1979
13	9.326	13640	3398	PV	0.060	0.9026
14	10.814	<u>29769</u>	5277	BB	0.089	1.9700
15	11.262	3996	618	BB	0.092	0.2644
16	11.689	16788	2478	BV	0.096	1.1110
17	11.935	2430	649	VV	0.058	0.1608
18	12.039	10361	2386	VV	0.067	0.6856
19	12.241	25901	6386	VV	0.062	1.7141
20	12.328	<u>37736</u>	7853	VB	0.071	2.4972
21	13.043	<u>20091</u>	3964	BV	0.078	1.3296
22	13.168	3298	703	VV	0.078	0.2182
23	13.519	4949	1033	VV	0.076	0.3275
24	13.697	32405	4290	VV	0.119	2.1445
25	13.960	<u>14386</u>	2890	VV	0.076	0.9520
26	14.108	6147	1241	VV	0.075	0.4068
27	14.302	9995	1317	VB	0.105	0.6614
28	15.359	<u>26539</u>	4282	BV	0.092	1.7563
29	15.584	11418	1536	VV	0.105	0.7556
30	15.883	5439	1126	VV	0.075	0.3599
31	16.012	<u>9897</u>	1946	VB	0.079	0.6550
32	16.308	2048	524	BV	0.064	0.1355
33	16.701	3810	715	BB	0.083	0.2521
34	17.090	6002	891	BB	0.111	0.3972
35	17.512	14823	2540	BV	0.087	0.9809
36	17.622	14938	2456	VV	0.090	0.9886

37	17.829	14863	2768	VB	0.082	0.9704
38	18.633	6194	539	VB	0.156	0.4099 ²²⁷
39	20.266	2871	585	BB	0.077	0.1900
40	20.774	27126	4529	VV	0.096	1.7951
41	21.029	4200	1025	VV	0.062	0.2779
42	21.116	7489	1700	VV	0.065	0.4956
43	21.210	16232	2098	VV	0.105	1.0742
44	21.522	43173	9237	VV	0.072	2.8570
45	21.810	46499	12052	PB	0.060	3.0772
46	22.132	2207	557	BV	0.060	0.1460
47	22.457	14862	4443	BV	0.052	0.9835
48	22.594	4366	704	VV	0.099	0.2889
49	22.861	24063	7072	VV	0.052	1.5924
50	22.964	18182	5229	VV	0.053	1.2032
51	23.109	34608	9929	VV	0.052	2.2903
52	23.188	30874	8821	VV	0.052	2.0431
53	23.364	15855	4721	VV	0.052	1.0492
54	23.571	16096	2449	VV	0.092	1.0652
55	23.751	4723	1369	VB	0.053	0.3126
56	24.111	4021	824	BV	0.081	0.2661
57	24.198	24435	6624	VV	0.056	1.6170
58	24.293	9584	2310	VV	0.061	0.6342
59	24.362	4888	1829	VV	0.045	0.3235
60	24.439	20633	4787	VV	0.064	1.3654
61	24.546	85798	19966	VV	0.063	5.6778
62	25.446	24353	1646	PV	0.190	1.6116
63	25.692	20881	4458	VV	0.069	1.3819
64	25.771	7389	2232	VV	0.048	0.4890
65	25.849	11919	2990	VV	0.060	0.7888
66	25.978	35141	8523	VV	0.064	2.3255
67	27.556	23017	4606	BV	0.078	1.5232
68	29.029	4858	1180	BV	0.067	0.3215
69	30.529	281525	48133	BB	0.091	18.6304

Total area = 1511106

=====

1	N	W	A	U	O	7	0
0	0	0	0	0	0	0	0
4	4	4	4	4	4	4	4

0
10
20
30
40



101032701AN000403\03270101.D

```

=====
Data File Name   : G:\HPCHEM\2\DATA\000403\037F0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 37
Sample Name     : LCSD PB 0330-3                     Injection Number: 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 04 Apr 00 06:00 PM                  Instrument Method: 8081.MTH
Report Created on: 05 Apr 00 09:50 AM                 Analysis Method  : PCB.MTH
    
```

Sig. 1 in G:\HPCHEM\2\DATA\000403\037F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.177	2772	1320	PV	0.033	0.1927
2	5.449	2282	978	VV	0.035	0.1587
3	5.509	6790	1741	VV	0.058	0.4721
4	5.664	14051	3748	VV	0.052	0.9770
5	6.491	9297	2257	BB	0.060	0.6465
6	6.862	14633	4904	BB	0.045	1.0175
7	7.437	206667	68094	BB	0.046	14.3700
8	8.437	2576	706	BV	0.057	0.1791
9	8.560	957	437	PV	0.036	0.0665
10	9.105	2941	721	BV	0.061	0.2045
11	9.326	13498	3559	PV	0.058	0.9385
12	10.815	28759	5200	BB	0.088	1.9997
13	11.260	3619	586	BB	0.089	0.2516
14	11.688	18165	2652	VV	0.098	1.2630
15	11.939	2498	663	VV	0.057	0.1737
16	12.036	11573	2563	VV	0.069	0.8047
17	12.240	28215	6362	VV	0.067	1.9619
18	12.329	42654	7588	VB	0.082	2.9658
19	13.044	20646	3811	BV	0.083	1.4356
20	13.166	3822	762	VV	0.084	0.2658
21	13.520	5114	1053	PV	0.076	0.3556
22	13.697	39648	4742	VV	0.125	2.7568
23	13.957	15347	2942	VV	0.079	1.0671
24	14.106	6907	1297	VV	0.079	0.4802
25	14.298	11061	1360	VB	0.112	0.7691
26	15.350	23898	3785	BV	0.094	1.6617
27	15.580	11880	1520	VV	0.111	0.8260
28	15.879	5405	1104	VV	0.076	0.3758
29	16.007	10064	1940	VB	0.080	0.6998
30	16.301	2518	580	BV	0.070	0.1751
31	16.702	3896	652	BB	0.091	0.2709
32	17.090	5483	876	BB	0.101	0.3813
33	17.505	16493	2574	BV	0.095	1.1468
34	17.822	15247	2912	PB	0.082	1.0602
35	18.604	7172	491	BB	0.196	0.4987
36	20.261	2560	557	BB	0.075	0.1780

154866

107.192

37	20.707	<u>20070</u>	4348	BV	0.058	1.5322
38	21.021	3591	955	VV	0.058	0.2497230
39	21.110	7560	1766	VV	0.063	0.5257
40	21.203	14826	2127	VV	0.096	1.0309
41	21.517	<u>42533</u>	9416	PV	0.070	2.9574
42	21.807	<u>47189</u>	12218	VB	0.059	3.2811
43	22.127	1763	505	BV	0.055	0.1226
44	22.454	15416	4485	VV	0.053	1.0719
45	22.576	6288	883	VV	0.110	0.4372
46	22.857	26609	7319	VV	0.055	1.8502
47	22.962	19900	5449	VV	0.055	1.3837
48	23.106	<u>36047</u>	10177	VV	0.053	2.5064
49	23.185	<u>32904</u>	9175	VV	0.053	2.2879
50	23.361	17333	4967	VV	0.053	1.2052
51	23.518	6429	1809	VV	0.060	0.4470
52	23.564	8338	1723	VV	0.081	0.5798
53	23.748	5236	1441	VB	0.055	0.3641
54	24.108	2721	711	BV	0.064	0.1892
55	24.194	23859	6695	VV	0.055	1.6590
56	24.290	12224	2124	VV	0.080	0.8499
57	24.434	17674	4511	VV	0.059	1.2289
58	24.543	81045	19799	VV	0.061	5.6352
59	25.439	6951	1371	PV	0.077	0.4833
60	25.688	<u>15618</u>	4101	VV	0.059	1.0859
61	25.767	6477	1973	VV	0.048	0.4504
62	25.845	10873	2805	VV	0.059	0.7560
63	25.974	<u>34506</u>	8471	VB	0.063	2.3993
64	27.552	23816	4783	BV	0.077	1.6560
65	29.025	5417	1216	BV	0.072	0.3767
66	30.524	257858	44020	BV	0.091	17.9294

236873

(0) = 196

Total area = 1438183

=====



Method Blank QC Data

Geomatrix Consultants

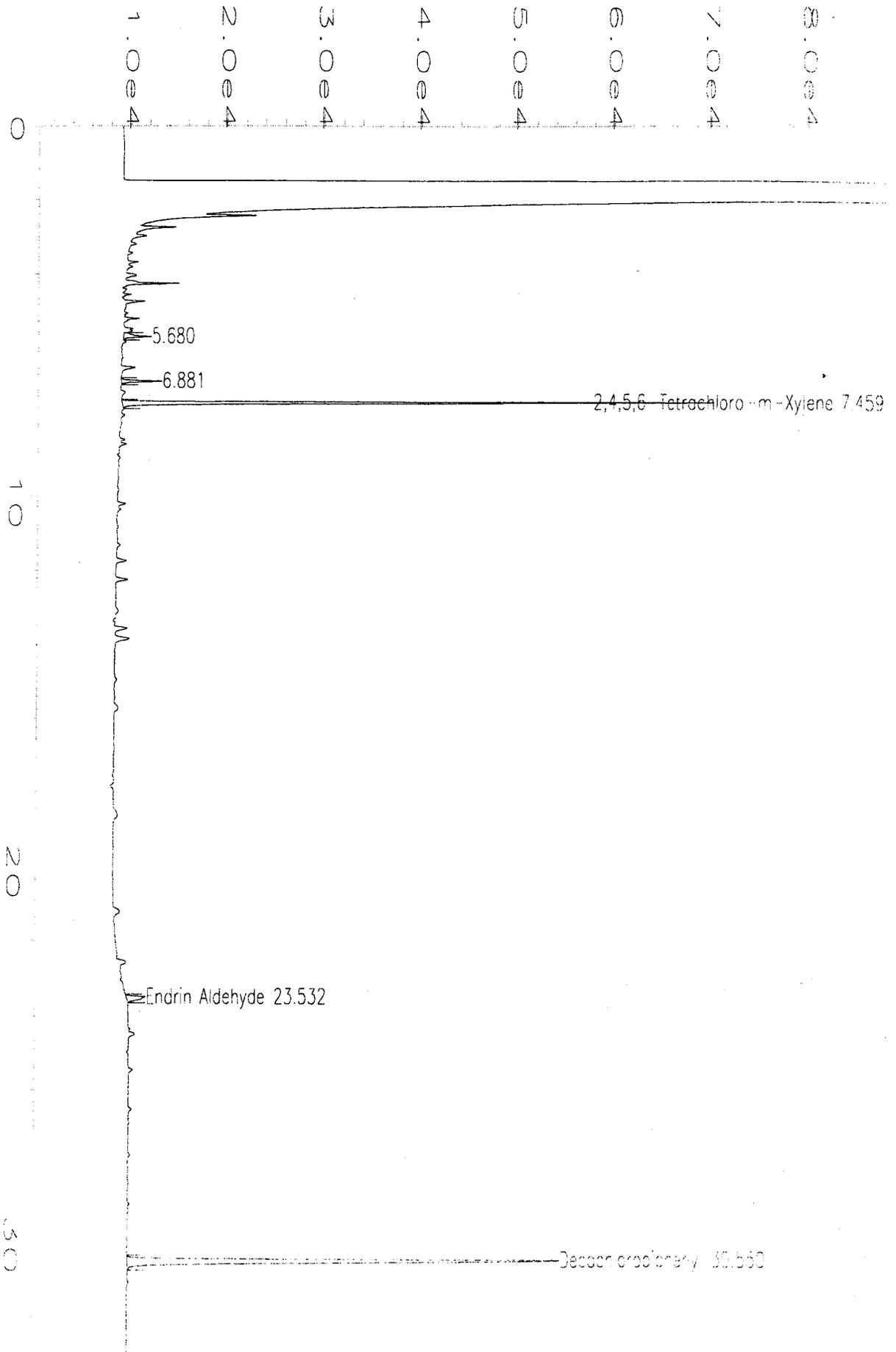
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=====
Data File Name      : G:\HPCHEM\2\DATA\000403\029F0101.D
Operator           : GC-17                               Page Number      : 1
Instrument         : GC 17 ECD                           Vial Number      : 29
Sample Name       : MB 0330-3                           Injection Number  : 1
Run Time Bar Code:                                     Sequence Line    : 1
Acquired on       : 04 Apr 00 01:02 PM                  Instrument Method: 8081.MTH
Report Created on : 05 Apr 00 09:30 AM                  Analysis Method  : PST0404F.MTH
Last Recalib on  : 30 MAR 00 03:57 PM                  Sample Amount    : 0
Multiplier        : 1                                   ISTD Amount     :
  
```

Sig. 1 in G:\HPCHEM\2\DATA\000403\029F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.459	185000	BB	0.046	1	60.568	2,4,5,6-Tetrachloro-m-Xylene
9.495	* not found	*		1		Alpha-BHC
11.080	* not found	*		1		Gamma-BHC
11.270	* not found	*		1		Beta-BHC
12.258	* not found	*		1		Heptachlor
12.684	* not found	*		1		Delta-BHC
13.811	* not found	*		1		Aldrin
16.630	* not found	*		1		Heptachlor Epoxide
17.610	* not found	*		1		Gamma Chlordane
18.500	* not found	*		1		Alpha Chlordane
18.793	* not found	*		1		Endosulfan I
19.982	* not found	*		1		4,4'-DDE
20.480	* not found	*		1		Dieldrin
21.960	* not found	*		1		Endrin
22.261	* not found	*		1		4,4'-DDD
22.500	* not found	*		1		Endosulfan II
23.128	* not found	*		1		4,4'-DDT
23.532	12693	BB	0.085	1	4.466	Endrin Aldehyde
23.843	* not found	*		1		Endosulfan Sulfate
25.696	* not found	*		1		Methoxychlor
26.363	* not found	*		1		Endrin Ketone
30.550	259759	BB	0.091	1	71.496	Decachlorobiphenyl

Not all calibrated peaks were found



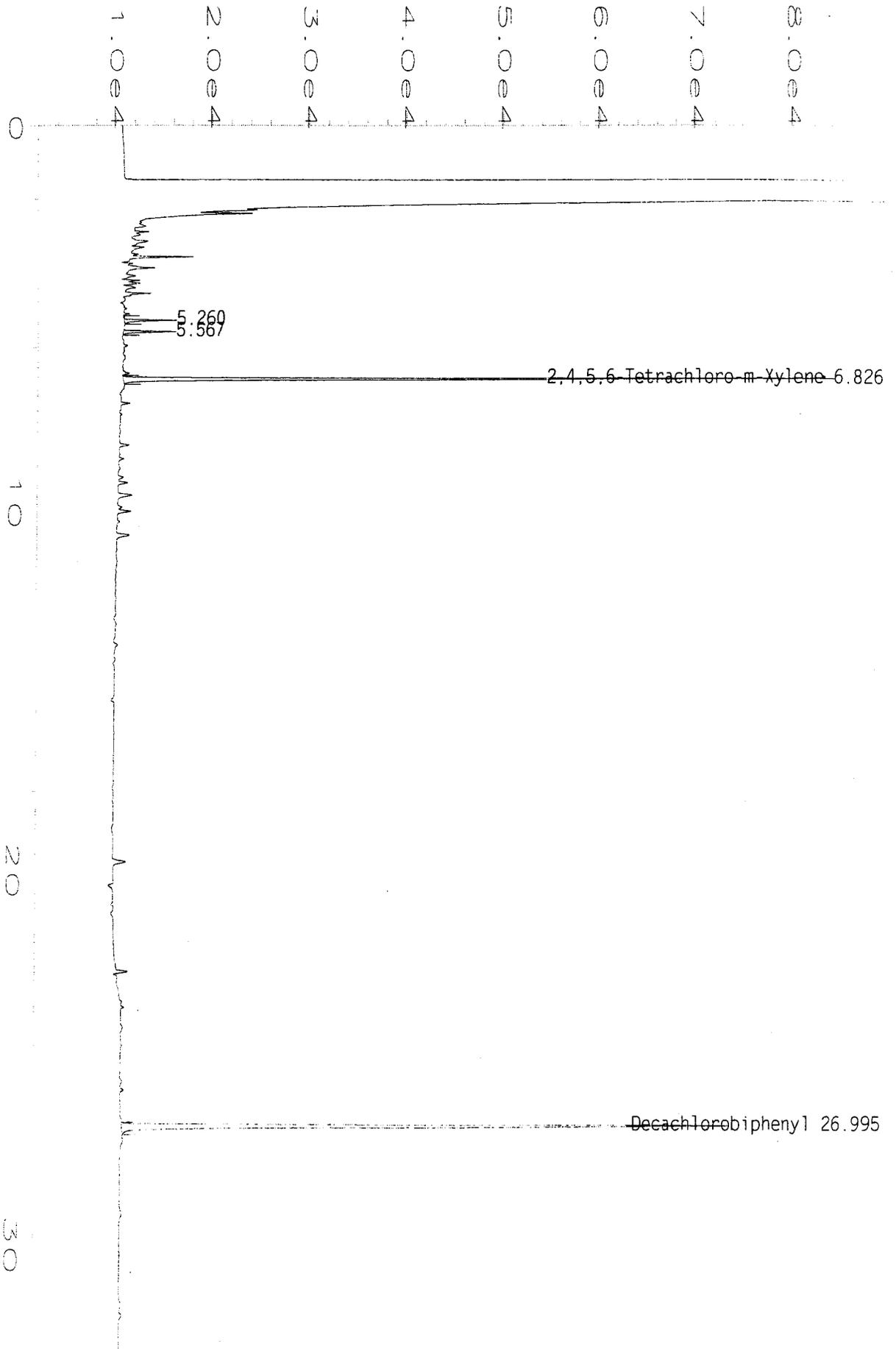
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=====
Data File Name      : G:\HPCHEM\2\DATA\000403\029R0101.D
Operator           : GC-17                               Page Number      : 1
Instrument         : GC 17 ECD                           Vial Number     : 29
Sample Name       : MB 0330-3                           Injection Number: 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on      : 04 Apr 00 01:02 PM                   Instrument Method: 8081.MTH
Report Created on: 05 Apr 00 09:44 AM                   Analysis Method  : PST0404R.MTH
Last Recalib on  : 30 MAR 00 04:30 PM                   Sample Amount   : 0
Multiplier       : 1                                     ISTD Amount     :
  
```

Sig. 2 in G:\HPCHEM\2\DATA\000403\029R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.826	204766	PB	0.041	1	67.228	2,4,5,6-Tetrachloro-m-Xylene
7.626	* not found *			1		Alpha-BHC
8.181	* not found *			1		Beta-BHC
8.587	* not found *			1		Gamma-BHC
8.932	* not found *			1		Delta-BHC
10.489	* not found *			1		Heptachlor
11.722	* not found *			1		Aldrin
13.221	* not found *			1		Heptachlor Epoxide
14.216	* not found *			1		Gamma Chlordane
15.000	* not found *			1		Endosulfan I
15.100	* not found *			1		Alpha Chlordane
15.855	* not found *			1		4,4'-DDE
16.112	* not found *			1		Dieldrin
17.188	* not found *			1		Endrin
17.965	* not found *			1		Endosulfan II
18.056	* not found *			1		4,4'-DDD
18.625	* not found *			1		Endrin Aldehyde
20.051	* not found *			1		Endosulfan Sulfate
20.200	* not found *			1		4,4'-DDT
21.808	* not found *			1		Endrin Ketone
22.207	* not found *			1		Methoxychlor
26.995	285147	BB	0.070	1	81.437	Decachlorobiphenyl

Not all calibrated peaks were found



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Extraction Log

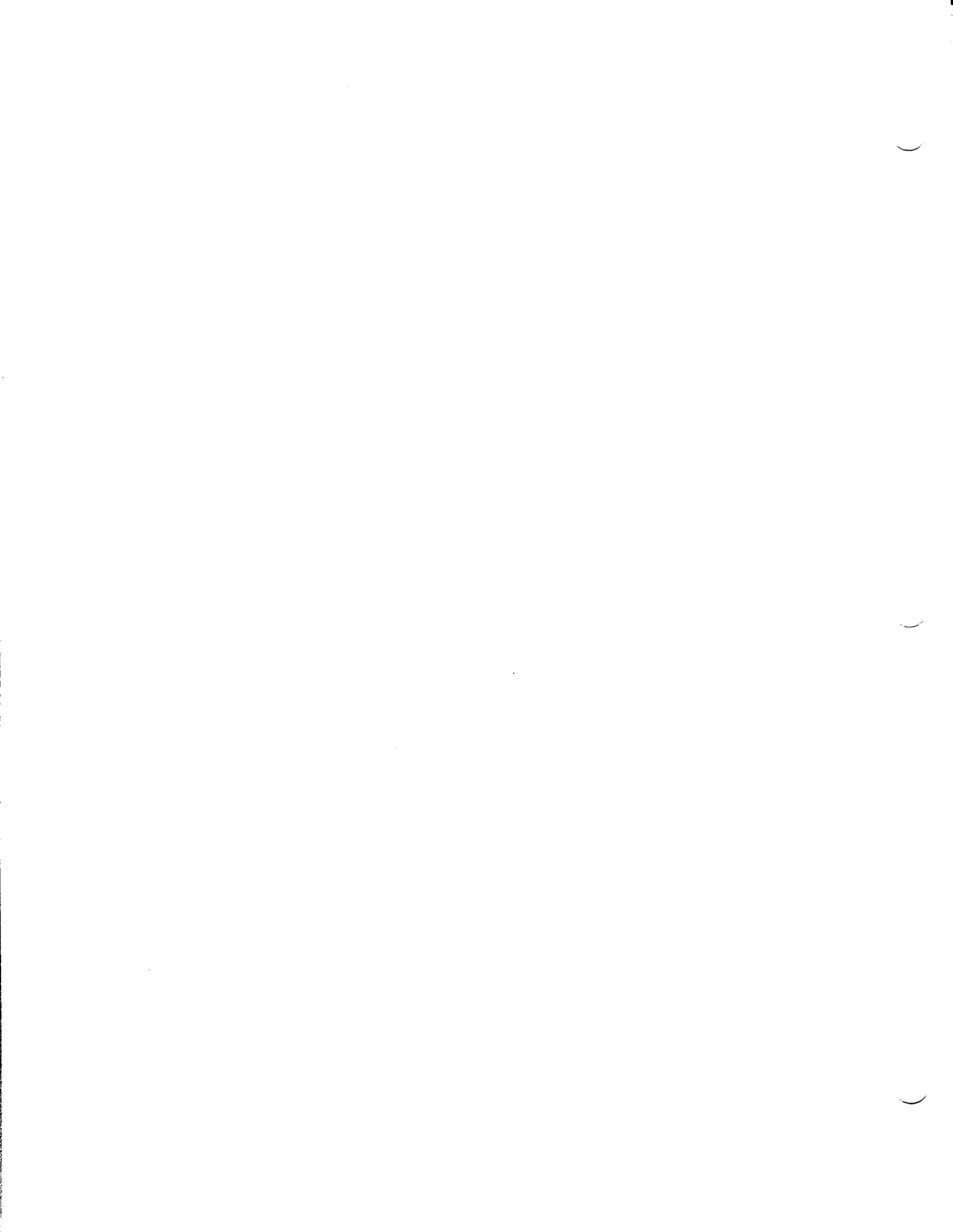
Geomatrix Consultants





**SVOCs (EPA 8270C)
Raw Data**

Geomatrix Consultants



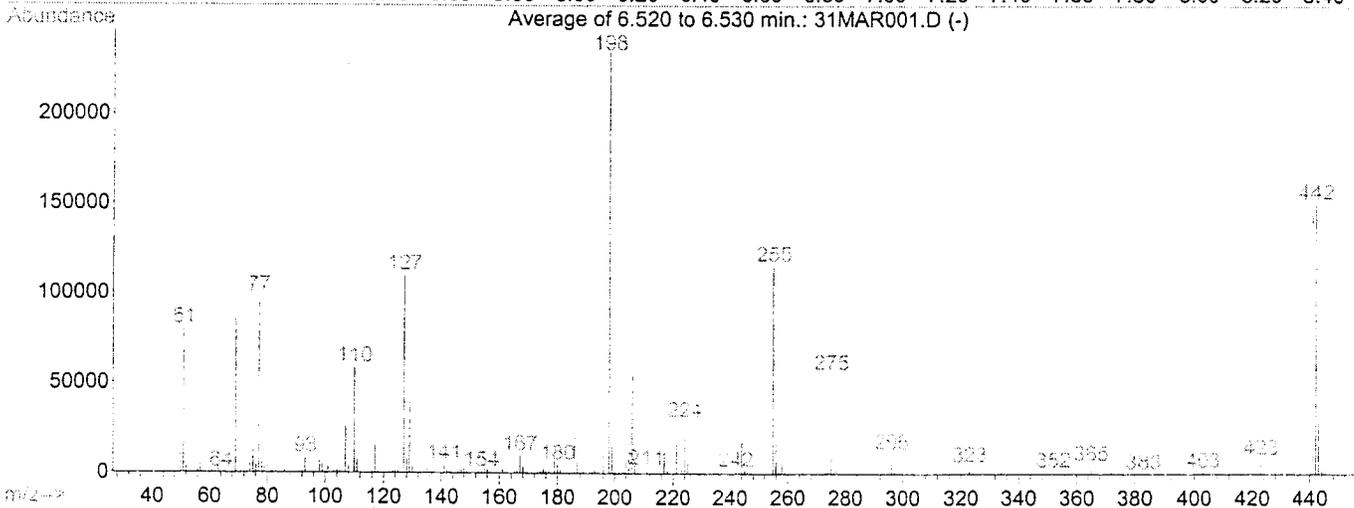
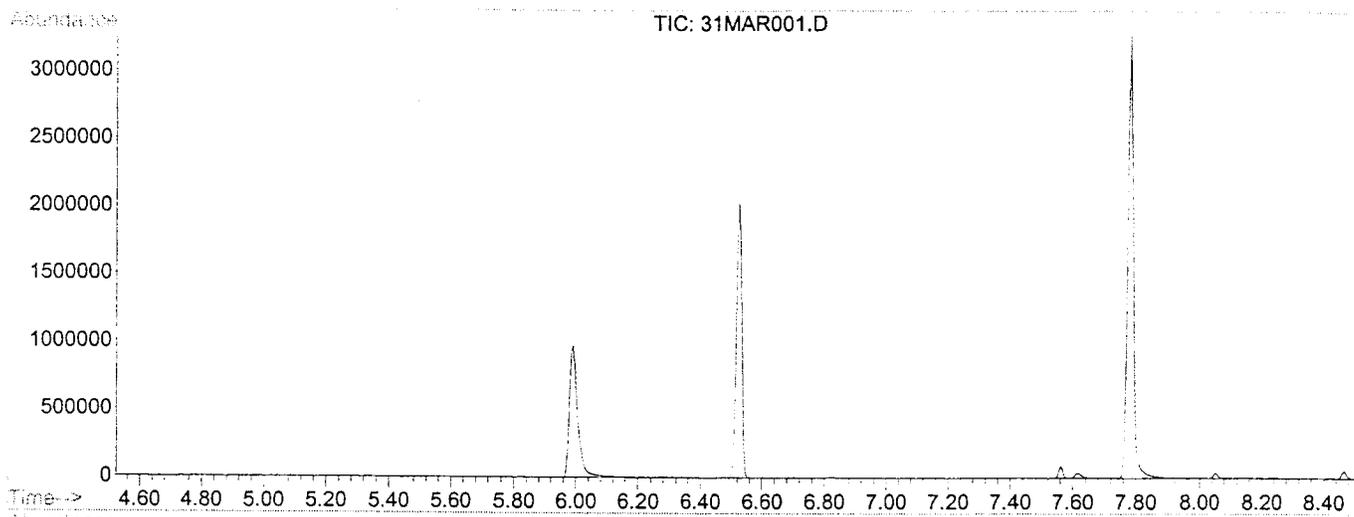


Initial Calibration Raw Data

Geomatrix Consultants



Data File : C:\HPCHEM\1\DATA\000331\31MAR001.D Vial: 1
 Acq On : 31 Mar 2000 2:34 pm Operator:
 Sample : DFTPP S032000A Inst : GC/MS J
 Misc : Multiplr: 1.00
 MS Integration Params: rteint.p
 Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)
 Title : BNA 8270/625 CALIBRATION

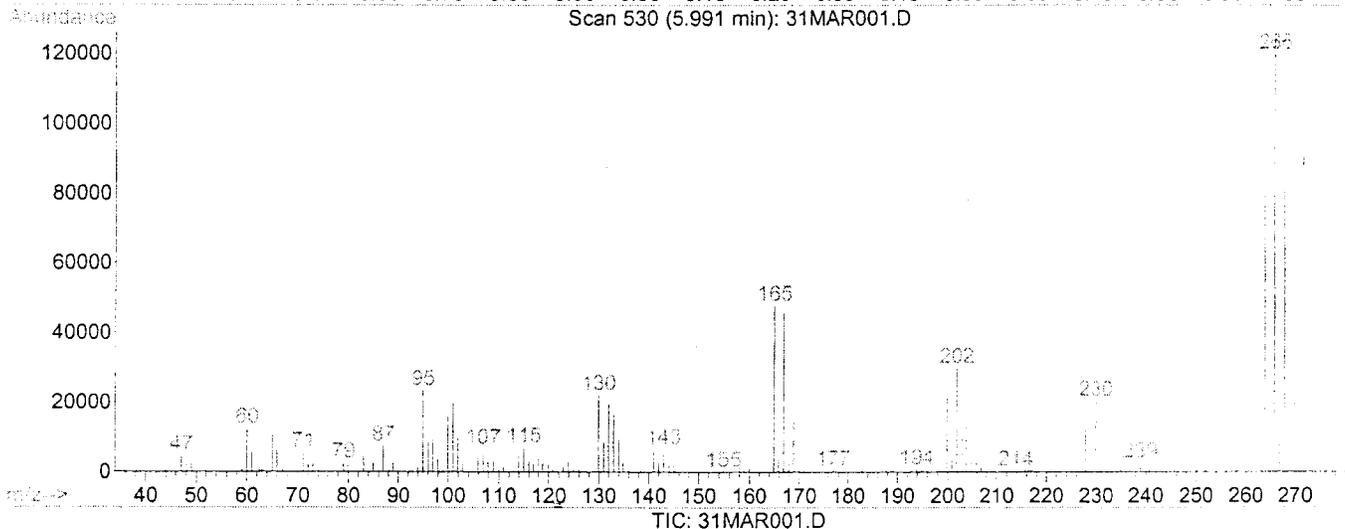
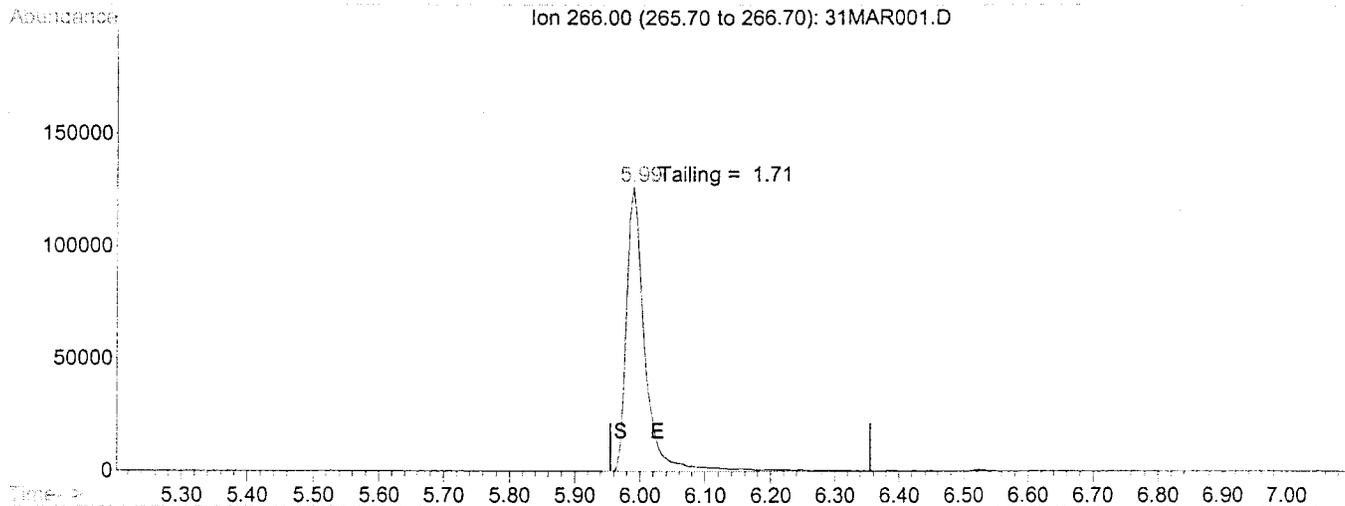


AutoFind: Scans 630, 631, 632; Background Corrected with Scan 623

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.1	79965	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	36.5	85760	PASS
70	69	0.00	2	0.6	474	PASS
127	198	40	60	46.9	110237	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	234837	PASS
199	198	5	9	6.7	15642	PASS
275	198	10	30	23.6	55483	PASS
365	198	1	100	2.1	4970	PASS
441	443	0.01	100	76.8	22332	PASS
442	198	40	100	64.3	151077	PASS
443	442	17	23	19.2	29069	PASS

Data File : C:\HPCHEM\1\DATA\000331\31MAR001.D Vial: 1
 Acq On : 31 Mar 2000 2:34 pm Operator:
 Sample : DFTPP S032000A Inst : GC/MS J
 Misc : Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Apr 6 11:07 2000 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : bbbbbb
 Last Update : Thu Feb 10 14:39:19 2000
 Response via : Single Level Calibration



(1) Pentachlorophenol

5.99min 0.00 m

response 243453

Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\000331\31MAR001.D

Vial: 1

Acq On : 31 Mar 2000 2:34 pm

Operator:

Sample : DFTPP S032000A

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 6 11:07 2000

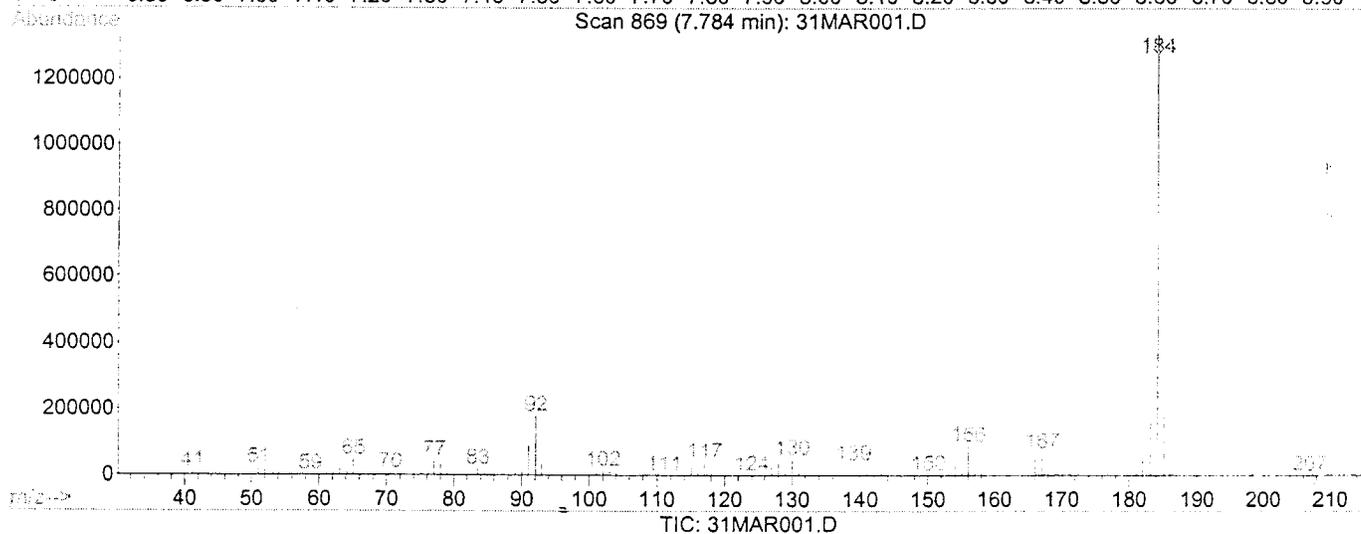
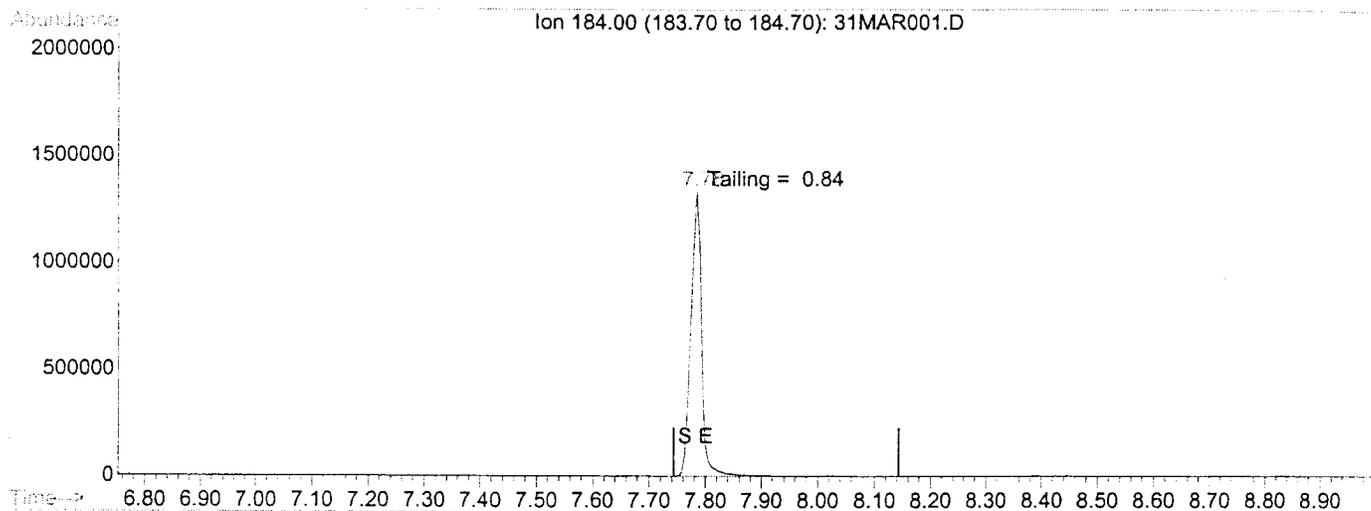
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)

Title : bbbbbb

Last Update : Thu Feb 10 14:39:19 2000

Response via : Single Level Calibration



(3) Benzidine

7.78min 0.00

response 1746654

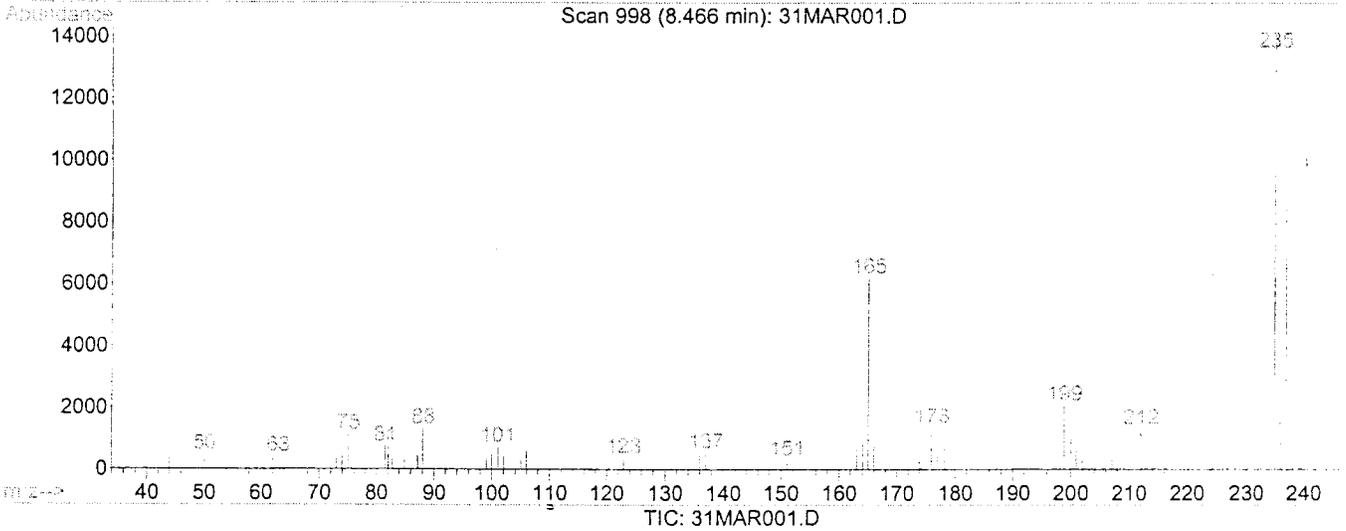
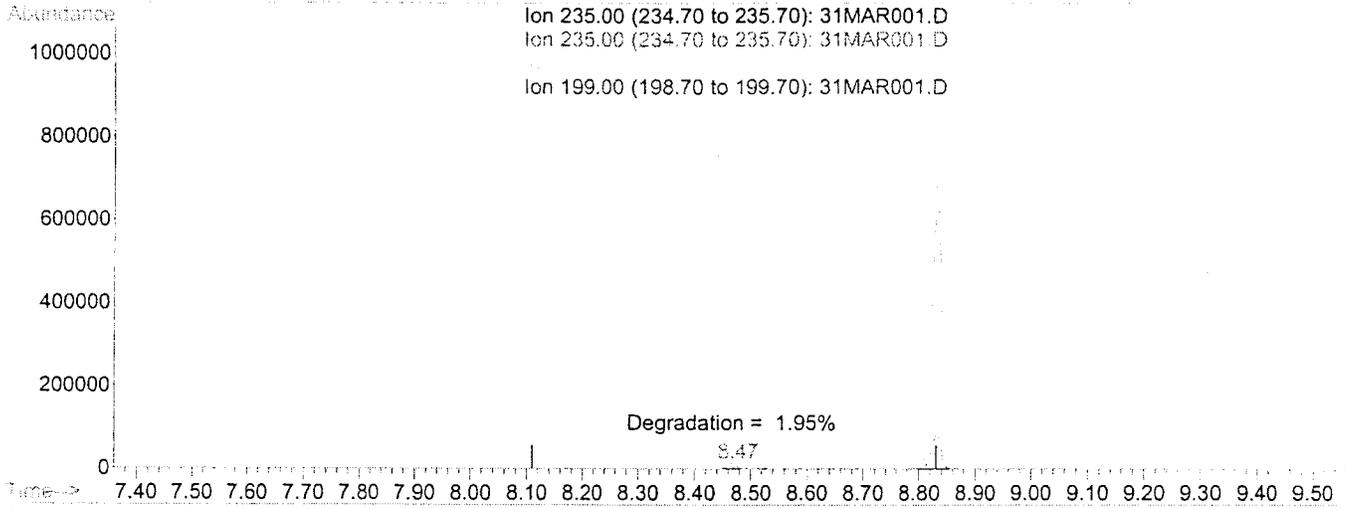
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\000331\31MAR001.D
 Acq On : 31 Mar 2000 2:34 pm
 Sample : DFTPP S032000A
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 6 11:08 2000

Vial: 1
 Operator:
 Inst : GC/MS J
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : bbbbbb
 Last Update : Thu Feb 10 14:39:19 2000
 Response via : Single Level Calibration



(5) DDD

8.47min 0.00 m

response 15297

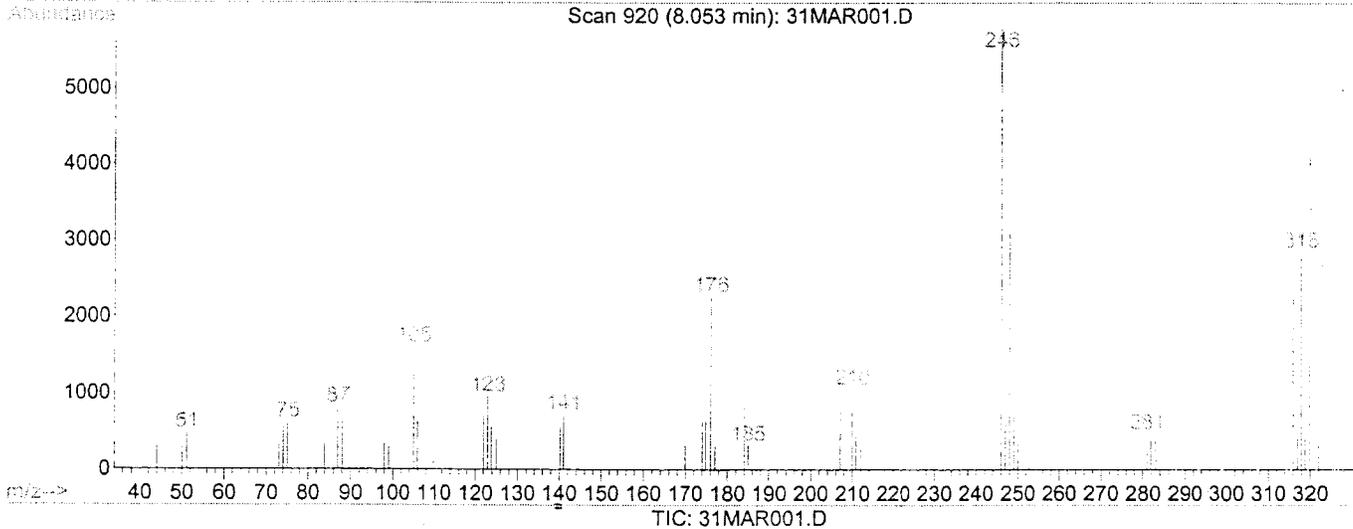
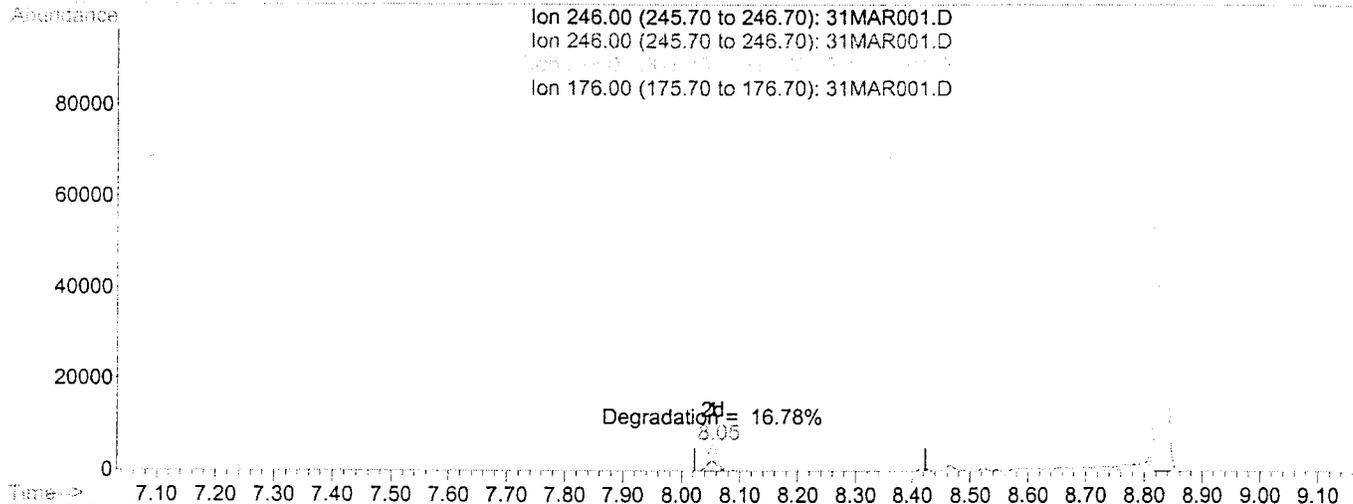
Ion	Exp%	Act%
235.00	100	100
235.00	100.00	0.00#
165.00	60.00	0.00#
199.00	13.00	0.00#

Data File : C:\HPCHEM\1\DATA\000331\31MAR001.D
 Acq On : 31 Mar 2000 2:34 pm
 Sample : DFTPP S032000A
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 6 11:08 2000

Vial: 1
 Operator:
 Inst : GC/MS J
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : bbbbb
 Last Update : Thu Feb 10 14:39:19 2000
 Response via : Single Level Calibration



(6) DDE

8.05min 0.00

response 6527

Ion	Exp%	Act%
246.00	100	100
246.00	70.00	100.00#
318.00	65.00	47.34#
176.00	60.00	0.00#

Response Factor Report GC/MS J

Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
 Title : BNA 8270/625 CALIBRATION
 Last Update : Mon Apr 03 10:00:10 2000
 Response via : Initial Calibration

Calibration Files

20 =31MAR006.D 50 =31MAR005.D 80 =31MAR002.D
 120 =31MAR004.D 160 =31MAR003.D

Compound	20	50	80	120	160	Avg	%RSD
1) 1,4-Dichlorobenzene-d	-----ISTD-----						
2) Pyridine	0.897	0.892	0.979	0.899	0.848	0.903	5.27
3) N-Nitrosodimethylamin	0.702	0.701	0.765	0.705	0.669	0.708	4.92
4) SURR2-Fluorophenol	1.257	1.262	1.368	1.275	1.203	1.273	4.70
5) Aniline	1.166	1.421	1.555	1.461	1.150	1.351	13.52
6) SURRPhenol-d6	1.512	1.472	1.566	1.419	1.339	1.462	5.98
7) C Phenol	1.514	1.474	1.667	1.496	1.397	1.509	6.55
8) Bis(2-Chloroethyl) Et	1.640	1.604	1.776	1.596	1.629	1.649	4.43
9) 2-Chlorophenol	1.366	1.345	1.447	1.322	1.239	1.344	5.61
10) 1,3-Dichlorobenzene	1.405	1.357	1.468	1.363	1.282	1.375	4.96
11) C 1,4-Dichlorobenzene	1.449	1.395	1.463	1.306	1.220	1.367	7.50#
12) Benzyl Alcohol	0.790	0.825	0.796	0.842	0.800	0.810	2.71
13) 1,2-Dichlorobenzene	1.372	1.325	1.389	1.262	1.185	1.307	6.44
14) 2-Methylphenol	1.199	1.178	1.313	1.133	1.082	1.181	7.31
15) Bis(2-Chloroisopropyl	1.161	1.148	1.245	1.113	1.047	1.143	6.32
16) 3/4-Methylphenol	1.316	1.331	1.446	1.341	1.333	1.353	3.88
17) P N-Nitroso-di-n-propyl	0.659	0.653	0.730	0.661	0.643	0.669	5.19
18) Hexachloroethane	0.509	0.505	0.546	0.497	0.474	0.506	5.11
19) Naphthalene-d8	-----ISTD-----						
20) SURRNitrobenzene-d5	0.339	0.327	0.346	0.316	0.298	0.325	5.92
21) Nitrobenzene	0.320	0.311	0.325	0.291	0.274	0.304	7.01
22) Isophorone	0.591	0.569	0.613	0.576	0.550	0.580	4.12
23) C 2-Nitrophenol	0.208	0.203	0.207	0.192	0.178	0.198	6.36#
24) 2,4-Dimethylphenol	0.320	0.303	0.309	0.289	0.272	0.299	6.17
25) Benzoic Acid	0.196	0.220	0.218	0.232	0.218	0.217	6.06
26) Bis(2-Chloroethoxy) M	0.403	0.388	0.397	0.358	0.338	0.377	7.38
27) C 2,4-Dichlorophenol	0.301	0.287	0.293	0.268	0.247	0.279	7.77#
28) 1,2,4-Trichlorobenzen	0.330	0.313	0.320	0.293	0.273	0.306	7.38
29) Naphthalene	1.088	0.980	0.967	0.816	0.733	0.917	15.42
30) 4-Chloroaniline	0.229	0.350	0.413	0.372	0.348	0.343	19.98
31) C Hexachloro-1,3-Butadi	0.170	0.160	0.163	0.145	0.134	0.154	9.37#
32) C 4-Chloro-3-Methylphen	0.285	0.278	0.291	0.259	0.244	0.271	7.25#
33) 2-Methylnaphthalene	0.701	0.651	0.648	0.571	0.522	0.619	11.54
34) 1-Methylnaphthalene	0.653	0.609	0.609	0.536	0.487	0.579	11.48
35) Acenaphthene-d10	-----ISTD-----						
36) P Hexachlorocyclopentad	0.195	0.223	0.266	0.244	0.240	0.234	11.32
37) C 2,4,6-Trichlorophenol	0.348	0.338	0.336	0.320	0.304	0.329	5.25#
38) 2,4,5-Trichlorophenol	0.385	0.375	0.368	0.341	0.317	0.357	7.74
39) 2-Chloronaphthalene	1.099	1.015	1.005	0.897	0.832	0.970	10.86
40) SURR2-Fluorobiphenyl	1.284	1.165	1.121	0.986	0.895	1.090	13.99
41) 2-Nitroaniline	0.273	0.262	0.274	0.254	0.249	0.262	4.32
42) Dimethyl Phthalate	1.229	1.142	1.148	1.043	0.994	1.111	8.36
43) Acenaphthylene	1.771	1.580	1.560	1.353	1.245	1.502	13.75
44) 3-Nitroaniline	0.158	0.163	0.167	0.269	0.263	0.204	27.76
45) C Acenaphthene	1.101	1.008	1.003	0.890	0.829	0.966	11.10#
46) P 2,4-Dinitrophenol	0.157	0.183	0.193	0.196	0.189	0.183	8.61
47) P 4-Nitrophenol	0.208	0.230	0.237	0.241	0.232	0.229	5.57
48) Dibenzofuran	1.518	1.382	1.359	1.198	1.092	1.310	12.73
49) 2,4-Dinitrotoluene	0.392	0.382	0.392	0.367	0.353	0.377	4.47
50) 2,6-Dinitrotoluene	0.302	0.295	0.304	0.281	0.263	0.289	5.91

(#) = Out of Range

000303.M

Mon Apr 03 10:00:38 2000

Response Factor Report GC/MS J

Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
 Title : BNA 8270/625 CALIBRATION
 Last Update : Mon Apr 03 10:00:10 2000
 Response via : Initial Calibration

Calibration Files

20 =31MAR006.D 50 =31MAR005.D 80 =31MAR002.D
 120 =31MAR004.D 160 =31MAR003.D

Compound	20	50	80	120	160	Avg	%RSD
51) Diethyl Phthalate	1.187	1.090	1.097	0.967	0.905	1.049	10.68
52) 4-Chlorophenyl-Phenyl	0.624	0.574	0.568	0.503	0.459	0.546	11.89
53) Fluorene	1.260	1.143	1.136	0.996	0.923	1.092	12.18
54) 4-Nitroaniline	0.201	0.155	0.151	0.158	0.151	0.163	13.25
55) Phenanthrene-d10	-----ISTD-----						
56) Azobenzene	0.675	0.620	0.624	0.578	0.540	0.607	8.37
57) 4,6-Dinitro-2-Methylp	0.147	0.155	0.160	0.142	0.127	0.146	8.62
58) C N-Nitrosodiphenylamin	0.541	0.445	0.451	0.429	0.401	0.453	11.59#
59) SURR2,4,6-Tribromophenol	0.084	0.083	0.085	0.080	0.077	0.082	3.96
60) 4-Bromophenyl-Phenyl	0.206	0.193	0.198	0.180	0.168	0.189	8.11
61) Hexachlorobenzene	0.208	0.195	0.201	0.183	0.171	0.192	7.57
62) C Pentachlorophenol	0.108	0.117	0.128	0.119	0.116	0.117	6.07#
63) Phenanthrene	1.111	0.993	0.977	0.853	0.802	0.947	12.88
64) Anthracene	1.164	1.027	1.009	0.866	0.768	0.967	15.84
65) Di-n-Butyl Phthalate	1.298	1.132	1.095	0.934	0.841	1.060	16.81
66) C Fluoranthene	1.222	1.090	1.074	0.945	0.861	1.038	13.43#
67) Benzidine	0.153	0.240	0.248	0.309	0.260	0.242	23.39
68) Chrysene-d12	-----ISTD-----						
69) Pyrene	1.344	1.253	1.294	1.192	1.121	1.241	7.03
70) SURRp-Terphenyl-d14	0.916	0.880	0.908	0.847	0.813	0.873	4.92
Butyl Benzyl Phthalat	0.607	0.600	0.640	0.605	0.583	0.607	3.42
3,3'-Dichlorobenzidin	0.259	0.237	0.216	0.277	0.262	0.250	9.66
73) Benzo (a) Anthracene	1.223	1.191	1.283	1.191	1.136	1.205	4.47
74) Bis(2-Ethylhexyl) Pht	0.845	0.806	0.852	0.777	0.725	0.801	6.53
75) Chrysene	1.150	1.122	1.206	1.124	1.093	1.139	3.73
76) Perylene-d12	-----ISTD-----						
77) C Di-n-Octyl Phthalate	1.652	1.562	1.585	1.434	1.291	1.505	9.52#
78) Benzo (b) Fluoranthen	1.291	1.262	1.424	1.752	1.558	1.457	13.89
79) Benzo (k) Fluoranthen	1.286	1.209	1.102	0.943	0.699	1.048	22.28
80) C Benzo (a) Pyrene	1.213	1.169	1.232	1.141	1.076	1.166	5.30#
81) Indeno (1,2,3-c,d) Py	1.326	1.304	1.400	1.310	1.259	1.320	3.89
82) Dibenz (a,h) Anthrace	1.130	1.099	1.185	1.108	1.072	1.119	3.80
83) Benzo (g,h,i) Perylen	1.125	1.118	1.216	1.135	1.095	1.138	4.06

Data File : C:\HPCHEM\1\DATA\000331\31MAR002.D

Vial: 2

Acq On : 31 Mar 2000 2:56 pm

Operator:

Sample : BNA-80 S033000D

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 3 9:10 2000

Quant Results File: 000303.RES

Quant Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Mon Mar 27 17:04:23 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	6.11	152	418713	40.00	mg/l	0.00
19) Naphthalene-d8	7.49	136	1551921	40.00	mg/l	0.00
35) Acenaphthene-d10	9.48	164	961790	40.00	mg/l	0.00
55) Phenanthrene-d10	11.15	188	1546201	40.00	mg/l	0.00
68) Chrysene-d12	14.62	240	1331938	40.00	mg/l	-0.01
76) Perylene-d12	17.67	264	1301610	40.00	mg/l	0.00

System Monitoring Compounds

4) 2-Fluorophenol	4.87	112	1145762	76.55	mg/l	-0.01
Spiked Amount	100.000		Recovery	=	76.55%	
6) Phenol-d6	5.76	99	1311812	75.41	mg/l	-0.01
Spiked Amount	100.000		Recovery	=	75.41%	
20) Nitrobenzene-d5	6.73	82	1074956	75.61	mg/l	0.00
Spiked Amount	100.000		Recovery	=	75.61%	
40) 2-Fluorobiphenyl	8.70	172	2155557	77.95	mg/l	0.00
Spiked Amount	100.000		Recovery	=	77.95%	
59) 2,4,6-Tribromophenol	10.38	330	262232	78.51	mg/l	0.00
Spiked Amount	100.000		Recovery	=	78.51%	
70) p-Terphenyl-d14	12.97	244	2418820	77.67	mg/l	0.00
Spiked Amount	100.000		Recovery	=	77.67%	

Target Compounds

						Qvalue
2) Pyridine	3.63	52	819999m	66.85	mg/ml	
3) N-Nitrosodimethylamine	3.64	74	640685	72.93	mg/l #	87
5) Aniline	5.81	93	1302613m	74.13	mg/l	
7) Phenol	5.77	94	1395986	81.15	mg/l	99
8) Bis(2-Chloroethyl) Ether	5.85	93	1487062m	80.39	mg/l	
9) 2-Chlorophenol	5.94	128	1211956	78.03	mg/l #	78
10) 1,3-Dichlorobenzene	6.08	146	1229021m	79.53	mg/l	
11) 1,4-Dichlorobenzene	6.13	146	1225453	79.98	mg/l #	90
12) Benzyl Alcohol	6.27	79	666678	59.67	mg/l #	80
13) 1,2-Dichlorobenzene	6.33	146	1163135	79.09	mg/l #	87
14) 2-Methylphenol	6.38	108	1099455m	81.43	mg/l	
15) Bis(2-Chloroisopropyl) Eth	6.41	45	1042305	58.18	mg/l	96
16) 3/4-Methylphenol	6.54	107	1210524	73.79	mg/l #	95
17) N-Nitroso-di-n-propylamine	6.59	70	611459	73.00	mg/l	82
18) Hexachloroethane	6.66	117	457050	78.29	mg/l	84
21) Nitrobenzene	6.75	77	1008258	76.56	mg/l #	96
22) Isophorone	7.00	82	1903555	74.59	mg/l	99
23) 2-Nitrophenol	7.09	139	642818	83.72	mg/l	95
24) 2,4-Dimethylphenol	7.11	107	958486	78.14	mg/l	97
25) Benzoic Acid	7.29	105	675907	67.02	mg/l	86
26) Bis(2-Chloroethoxy) Methan	7.21	93	1233665	75.63	mg/l	99
27) 2,4-Dichlorophenol	7.35	162	910802	80.66	mg/l #	91
28) 1,2,4-Trichlorobenzene	7.44	180	993858	82.46	mg/l	100
29) Naphthalene	7.52	128	3001377	84.21	mg/l	99
30) 4-Chloroaniline	7.58	127	1281036m	86.79	mg/l	
31) Hexachloro-1,3-Butadiene	7.69	225	505617	84.56	mg/l #	75
32) 4-Chloro-3-Methylphenol	8.10	107	902812	79.67	mg/l	99
33) 2-Methylnaphthalene	8.28	142	2012167	81.42	mg/l	98
34) 1-Methylnaphthalene	8.40	142	1891531	81.20	mg/l	98

(#)= qualifier out of range (m) = manual integration

31MAR002.D 000303.M

Mon Apr 03 09:10:34 2000

Data File : C:\HPCHEM\1\DATA\000331\31MAR002.D

Vial: 2

Acq On : 31 Mar 2000 2:56 pm

Operator:

Sample : BNA-80 S033000D

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 3 9:10 2000

Quant Results File: 000303.RES

Quant Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Mon Mar 27 17:04:23 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Hexachlorocyclopentadiene	8.52	237	511554	96.04	mg/l #	100
37) 2,4,6-Trichlorophenol	8.62	196	646440	77.97	mg/l	98
38) 2,4,5-Trichlorophenol	8.67	196	707222	77.52	mg/l	98
39) 2-Chloronaphthalene	8.83	162	1933243	77.73	mg/l #	100
41) 2-Nitroaniline	8.97	65	527895	68.05	mg/l	95
42) Dimethyl Phthalate	9.19	163	2208252	77.26	mg/l #	97
43) Acenaphthylene	9.31	152	3000875	79.48	mg/l	100
44) 3-Nitroaniline	9.45	138	321999	49.08	mg/l	95
45) Acenaphthene	9.52	153	1929307	76.91	mg/l #	86
46) 2,4-Dinitrophenol	9.55	184	371035	81.52	mg/l	93
47) 4-Nitrophenol	9.62	139	456091	68.39	mg/l	94
48) Dibenzofuran	9.70	168	2614829	80.28	mg/l #	88
49) 2,4-Dinitrotoluene	9.72	165	754653	76.48	mg/l	96
50) 2,6-Dinitrotoluene	9.28	165	584339	77.55	mg/l	97
51) Diethyl Phthalate	9.98	149	2109519	76.58	mg/l	99
52) 4-Chlorophenyl-Phenyl Ethe	10.06	204	1093056	79.50	mg/l #	75
53) Fluorene	10.09	166	2185782	78.09	mg/l #	58
54) 4-Nitroaniline	10.16	138	289690m	57.88	mg/l	
56) Azobenzene	10.25	77	1930860	66.89	mg/l	96
57) 4,6-Dinitro-2-Methylphenol	10.19	198	494790	83.59	mg/l #	78
58) N-Nitrosodiphenylamine	10.21	169	1395346	69.87	mg/l	96
60) 4-Bromophenyl-Phenyl Ether	10.61	248	612313	77.96	mg/l #	98
61) Hexachlorobenzene	10.80	284	620847	80.95	mg/l	94
62) Pentachlorophenol	11.00	266	395102	76.35	mg/l #	77
63) Phenanthrene	11.18	178	3021703	78.02	mg/l	99
64) Anthracene	11.24	178	3119923	80.11	mg/l #	95
65) Di-n-Butyl Phthalate	11.80	149	3385217	77.73	mg/l	100
66) Fluoranthene	12.54	202	3321051	78.27	mg/l #	99
67) Benzidine	12.66	184	767156	86.08	mg/l #	96
69) Pyrene	12.82	202	3448155	77.54	mg/l #	99
71) Butyl Benzyl Phthalate	13.66	149	1705304	72.70	mg/l #	98
72) 3,3'-Dichlorobenzidine	14.54	252	574122	45.95	mg/l	93
73) Benzo (a) Anthracene	14.59	228	3417358m	77.42	mg/l	
74) Bis(2-Ethylhexyl) Phthalat	14.63	149	2268645	71.73	mg/l	99
75) Chrysene	14.68	228	3211759m	76.48	mg/l	
77) Di-n-Octyl Phthalate	15.86	149	4125449	73.17	mg/l #	100
78) Benzo (b) Fluoranthene	16.82	252	3707815	72.54	mg/l #	91
79) Benzo (k) Fluoranthene	16.87	252	2869010m	79.66	mg/l	
80) Benzo (a) Pyrene	17.55	252	3207285	75.79	mg/l #	90
81) Indeno (1,2,3-c,d) Pyrene	20.53	276	3644610m	75.55	mg/l	
82) Dibenz (a,h) Anthracene	20.57	278	3085193	75.63	mg/l	96
83) Benzo (g,h,i) Perylene	21.34	276	3165038	76.82	mg/l #	86

(#) = qualifier out of range (m) = manual integration

31MAR002.D 000303.M Mon Apr 03 09:10:37 2000

Data File : C:\HPCHEM\1\DATA\000331\31MAR003.D

Vial: 3

Acq On : 31 Mar 2000 3:52 pm

Operator:

Sample : BNA-160 S033000B

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 3 9:17 2000

Quant Results File: 000303.RES

Quant Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Mon Mar 27 17:04:23 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	6.11	152	447060	40.00	mg/l	0.00
19) Naphthalene-d8	7.50	136	1695909	40.00	mg/l	0.00
35) Acenaphthene-d10	9.48	164	1028393	40.00	mg/l	0.00
55) Phenanthrene-d10	11.16	188	1687291	40.00	mg/l	0.00
68) Chrysene-d12	14.64	240	1345122	40.00	mg/l	0.00
76) Perylene-d12	17.70	264	1435562	40.00	mg/l	0.03

System Monitoring Compounds

4) 2-Fluorophenol	4.88	112	2151342	134.62	mg/l	0.00
Spiked Amount 100.000			Recovery =	134.62%		
6) Phenol-d6	5.77	99	2393931	128.89	mg/l	0.00
Spiked Amount 100.000			Recovery =	128.89%		
20) Nitrobenzene-d5	6.74	82	2021887	130.14	mg/l	0.00
Spiked Amount 100.000			Recovery =	130.14%		
40) 2-Fluorobiphenyl	8.71	172	3681286	124.51	mg/l	0.00
Spiked Amount 100.000			Recovery =	124.51%		
59) 2,4,6-Tribromophenol	10.39	330	520186	142.71	mg/l	0.00
Spiked Amount 100.000			Recovery =	142.71%		
70) p-Terphenyl-d14	12.98	244	4374972	139.11	mg/l	0.00
Spiked Amount 100.000			Recovery =	139.11%		

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Pyridine	3.66	52	1515539m	115.72	mg/ml	
3) N-Nitrosodimethylamine	3.67	74	1196785	127.60	mg/l #	87
5) Aniline	5.81	93	2056418	109.61	mg/l #	81
7) Phenol	5.79	94	2497302	135.97	mg/l	97
8) Bis(2-Chloroethyl) Ether	5.87	93	2913714m	147.53	mg/l	
9) 2-Chlorophenol	5.95	128	2215323	133.58	mg/l #	78
10) 1,3-Dichlorobenzene	6.08	146	2291753m	138.90	mg/l	
11) 1,4-Dichlorobenzene	6.13	146	2182056	133.38	mg/l #	90
12) Benzyl Alcohol	6.29	79	1430097	119.89	mg/l #	81
13) 1,2-Dichlorobenzene	6.33	146	2118300	134.90	mg/l #	87
14) 2-Methylphenol	6.39	108	1935304m	134.25	mg/l	
15) Bis(2-Chloroisopropyl) Eth	6.42	45	1871902	97.86	mg/l	91
16) 3/4-Methylphenol	6.56	107	2382877	136.05	mg/l #	95
17) N-Nitroso-di-n-propylamine	6.61	70	1150287	128.62	mg/l	82
18) Hexachloroethane	6.66	117	848442	136.11	mg/l	84
21) Nitrobenzene	6.76	77	1857403	129.06	mg/l #	71
22) Isophorone	7.02	82	3729910m	133.75	mg/l	
23) 2-Nitrophenol	7.10	139	1209551	144.15	mg/l	97
24) 2,4-Dimethylphenol	7.12	107	1846717	137.77	mg/l	97
25) Benzoic Acid	7.34	105	1477401	134.05	mg/l #	60
26) Bis(2-Chloroethoxy) Methan	7.22	93	2292399	128.60	mg/l	99
27) 2,4-Dichlorophenol	7.36	162	1675252	135.77	mg/l #	91
28) 1,2,4-Trichlorobenzene	7.45	180	1854774	140.82	mg/l	100
29) Naphthalene	7.53	128	4970128	127.61	mg/l #	97
30) 4-Chloroaniline	7.59	127	2359964	146.31	mg/l #	93
31) Hexachloro-1,3-Butadiene	7.70	225	910229	139.30	mg/l #	76
32) 4-Chloro-3-Methylphenol	8.10	107	1652697	133.46	mg/l	99
3) 2-Methylnaphthalene	8.29	142	3537958	131.00	mg/l	97
34) 1-Methylnaphthalene	8.41	142	3301225	129.68	mg/l	98

(#)= qualifier out of range (m) = manual integration

31MAR003.D 000303.M

Mon Apr 03 09:17:45 2000

Page 1

Data File : C:\HPCHEM\1\DATA\000331\31MAR003.D

Vial: 3

Acq On : 31 Mar 2000 3:52 pm

Operator:

Sample : BNA-160 S033000B

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 3 9:17 2000

Quant Results File: 000303.RES

Quant Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Mon Mar 27 17:04:23 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Hexachlorocyclopentadiene	8.52	237	988665	173.58	mg/l #	100
37) 2,4,6-Trichlorophenol	8.63	196	1250148	141.01	mg/l	98
38) 2,4,5-Trichlorophenol	8.68	196	1304546	133.73	mg/l	98
39) 2-Chloronaphthalene	8.84	162	3422686	128.70	mg/l #	99
41) 2-Nitroaniline	8.99	65	1022390	123.25	mg/l	95
42) Dimethyl Phthalate	9.20	163	4089134	133.80	mg/l	100
43) Acenaphthylene	9.32	152	5120002	126.83	mg/l #	100
44) 3-Nitroaniline	9.47	138	1083850	154.51	mg/l	94
45) Acenaphthene	9.53	153	3409673	127.11	mg/l	97
46) 2,4-Dinitrophenol	9.57	184	776134	159.48	mg/l	90
47) 4-Nitrophenol	9.64	139	952966	133.64	mg/l	95
48) Dibenzofuran	9.71	168	4491334	128.97	mg/l	98
49) 2,4-Dinitrotoluene	9.74	165	1453178	137.74	mg/l	95
50) 2,6-Dinitrotoluene	9.29	165	1082754	134.38	mg/l	96
51) Diethyl Phthalate	10.00	149	3723780	126.43	mg/l	99
52) 4-Chlorophenyl-Phenyl Ethe	10.07	204	1887723	128.41	mg/l #	75
53) Fluorene	10.10	166	3796984	126.86	mg/l	97
54) 4-Nitroaniline	10.18	138	620082m	115.86	mg/l	
56) Azobenzene	10.26	77	3644781	115.70	mg/l	96
57) 4,6-Dinitro-2-Methylphenol	10.22	198	859392	133.05	mg/l #	83
58) N-Nitrosodiphenylamine	10.23	169	2706279	124.18	mg/l	96
60) 4-Bromophenyl-Phenyl Ether	10.62	248	1132825	132.17	mg/l #	98
61) Hexachlorobenzene	10.81	284	1156801	138.22	mg/l	93
62) Pentachlorophenol	11.01	266	779977	138.12	mg/l #	77
63) Phenanthrene	11.19	178	5413238m	128.08	mg/l	
64) Anthracene	11.25	178	5185425	122.01	mg/l #	95
65) Di-n-Butyl Phthalate	11.80	149	5677504	119.46	mg/l #	100
66) Fluoranthene	12.55	202	5811920	125.52	mg/l #	99
67) Benzidine	12.67	184	1754966	180.46	mg/l	99
69) Pyrene	12.83	202	6030273	134.27	mg/l	99
71) Butyl Benzyl Phthalate	13.67	149	3138290	132.47	mg/l #	95
72) 3,3'-Dichlorobenzidine	14.56	252	1410428	111.77	mg/l	93
73) Benzo (a) Anthracene	14.61	228	6110033m	137.07	mg/l	
74) Bis(2-Ethylhexyl) Phthalat	14.64	149	3899265	122.08	mg/l	99
75) Chrysene	14.71	228	5878344m	138.61	mg/l	
77) Di-n-Octyl Phthalate	15.87	149	7414040	119.23	mg/l #	99
78) Benzo (b) Fluoranthene	16.87	252	8943681m	158.66	mg/l	
79) Benzo (k) Fluoranthene	16.92	252	4014870m	101.08	mg/l	
80) Benzo (a) Pyrene	17.60	252	6180880	132.42	mg/l #	90
81) Indeno (1,2,3-c,d) Pyrene	20.62	276	7228811m	135.87	mg/l	
82) Dibenz (a,h) Anthracene	20.65	278	6154838m	136.80	mg/l	
83) Benzo (g,h,i) Perylene	21.45	276	6285323	138.32	mg/l	96

(#) = qualifier out of range (m) = manual integration

31MAR003.D 000303.M

Mon Apr 03 09:17:49 2000

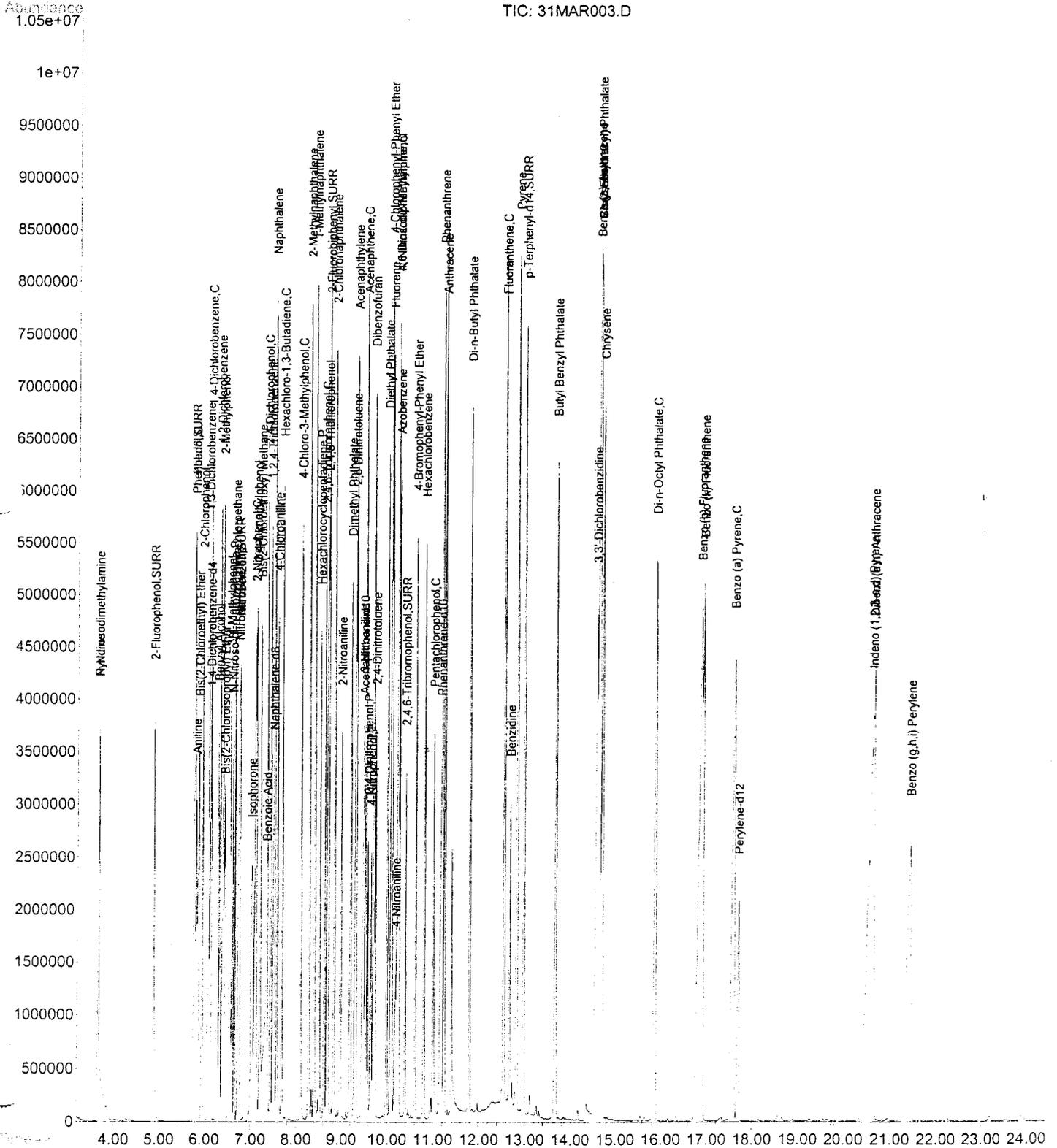
Page 2

Data File : C:\HPCHEM\1\DATA\000331\31MAR003.D
 Acq On : 31 Mar 2000 3:52 pm
 Sample : BNA-160 S033000B
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 3 9:17 2000

Vial: 3
 Operator:
 Inst : GC/MS J
 Multiplr: 1.00

Quant Results File: 000303.RES

Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
 Title : BNA 8270/625 CALIBRATION
 Last Update : Mon Mar 27 17:04:23 2000
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\000331\31MAR004.D

Vial: 4

Acq On : 31 Mar 2000 4:27 pm

Operator:

Sample : BNA-120 S033000C

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 3 9:23 2000

Quant Results File: 000303.RES

Quant Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Mon Mar 27 17:04:23 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	6.11	152	459317	40.00	mg/l	0.00
19) Naphthalene-d8	7.50	136	1712141	40.00	mg/l	0.00
35) Acenaphthene-d10	9.48	164	1048205	40.00	mg/l	0.00
55) Phenanthrene-d10	11.15	188	1702789	40.00	mg/l	0.00
68) Chrysene-d12	14.63	240	1396777	40.00	mg/l	0.00
76) Perylene-d12	17.68	264	1420758	40.00	mg/l	0.00

System Monitoring Compounds

4) 2-Fluorophenol	4.87	112	1756817	107.00	mg/l1	0.00
Spiked Amount	100.000		Recovery	=	107.00%	
6) Phenol-d6	5.77	99	1955515	102.47	mg/l	0.00
Spiked Amount	100.000		Recovery	=	102.47%	
20) Nitrobenzene-d5	6.74	82	1620803	103.33	mg/l	0.00
Spiked Amount	100.000		Recovery	=	103.33%	
40) 2-Fluorobiphenyl	8.70	172	3101947	102.93	mg/l	0.00
Spiked Amount	100.000		Recovery	=	102.93%	
59) 2,4,6-Tribromophenol	10.39	330	408523	111.06	mg/l	0.00
Spiked Amount	100.000		Recovery	=	111.06%	
70) p-Terphenyl-d14	12.98	244	3549324	108.69	mg/l	0.00
Spiked Amount	100.000		Recovery	=	108.69%	

Target Compounds

					Qvalue
2) Pyridine	3.64	52	1238188m	92.02	mg/ml
3) N-Nitrosodimethylamine	3.65	74	971729	100.84	mg/l # 87
5) Aniline	5.81	93	2013209m	104.45	mg/l1
7) Phenol	5.78	94	2060910	109.21	mg/l 98
8) Bis(2-Chloroethyl) Ether	5.86	93	2199239m	108.38	mg/l
9) 2-Chlorophenol	5.94	128	1821906	106.93	mg/l # 78
10) 1,3-Dichlorobenzene	6.08	146	1878727m	110.83	mg/l
11) 1,4-Dichlorobenzene	6.13	146	1800239	107.10	mg/l # 90
12) Benzyl Alcohol	6.28	79	1159547	94.61	mg/l # 81
13) 1,2-Dichlorobenzene	6.33	146	1738533	107.76	mg/l # 87
14) 2-Methylphenol	6.39	108	1560667m	105.38	mg/l
15) Bis(2-Chloroisopropyl) Eth	6.43	45	1533218m	78.01	mg/l
16) 3/4-Methylphenol	6.55	107	1848353	102.72	mg/l 98
17) N-Nitroso-di-n-propylamine	6.60	70	911337	99.18	mg/l 82
18) Hexachloroethane	6.66	117	684565	106.89	mg/l 84
21) Nitrobenzene	6.76	77	1495431	102.93	mg/l # 96
22) Isophorone	7.01	82	2956726m	105.02	mg/l
23) 2-Nitrophenol	7.10	139	985305	116.31	mg/l 97
24) 2,4-Dimethylphenol	7.12	107	1486694	109.86	mg/l 97
25) Benzoic Acid	7.32	105	1193045	107.22	mg/l # 61
26) Bis(2-Chloroethoxy) Methan	7.21	93	1840457	102.27	mg/l 99
27) 1,4-Dichlorophenol	7.36	162	1377386	110.57	mg/l # 91
28) 1,2,4-Trichlorobenzene	7.45	180	1504030	113.11	mg/l 100
29) Naphthalene	7.52	128	4190708	106.58	mg/l # 95
30) 4-Chloroaniline	7.59	127	1911742	117.40	mg/l # 93
31) Hexachloro-1,3-Butadiene	7.69	225	744985	112.93	mg/l # 75
32) 4-Chloro-3-Methylphenol	8.10	107	1327952	106.22	mg/l 99
33) 2-Methylnaphthalene	8.28	142	2933958	107.61	mg/l 98
34) 1-Methylnaphthalene	8.41	142	2753309	107.13	mg/l 98

(#)= qualifier out of range (m) = manual integration

31MAR004.D 000303.M

Mon Apr 03 09:24:08 2000

Data File : C:\HPCHEM\1\DATA\000331\31MAR004.D

Vial: 4

Acq On : 31 Mar 2000 4:27 pm

Operator:

Sample : BNA-120 S033000C

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 3 9:23 2000

Quant Results File: 000303.RES

ant Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)

title : BNA 8270/625 CALIBRATION

Last Update : Mon Mar 27 17:04:23 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Hexachlorocyclopentadiene	8.52	237	768818	132.43	mg/l #	100
37) 2,4,6-Trichlorophenol	8.62	196	1006972	111.44	mg/l	98
38) 2,4,5-Trichlorophenol	8.67	196	1073337	107.95	mg/l	98
39) 2-Chloronaphthalene	8.84	162	2819517	104.01	mg/l #	99
41) 2-Nitroaniline	8.98	65	798581	94.45	mg/l	94
42) Dimethyl Phthalate	9.19	163	3279391	105.28	mg/l	100
43) Acenaphthylene	9.32	152	4253174	103.36	mg/l #	100
44) 3-Nitroaniline	9.46	138	845636	118.27	mg/l #	50
45) Acenaphthene	9.52	153	2797512	102.32	mg/l #	86
46) 2,4-Dinitrophenol	9.56	184	617268	124.44	mg/l	92
47) 4-Nitrophenol	9.63	139	757304	104.19	mg/l	95
48) Dibenzofuran	9.70	168	3766173	106.10	mg/l #	88
49) 2,4-Dinitrotoluene	9.73	165	1155360	107.44	mg/l	95
50) 2,6-Dinitrotoluene	9.29	165	882580	107.47	mg/l	97
51) Diethyl Phthalate	9.99	149	3042330	101.34	mg/l	99
52) 4-Chlorophenyl-Phenyl Ethe	10.07	204	1582670	105.62	mg/l #	75
53) Fluorene	10.10	166	3130615	102.62	mg/l #	58
54) 4-Nitroaniline	10.16	138	495301	90.80	mg/l	85
56) Azobenzene	10.25	77	2953552	92.91	mg/l	97
57) 4,6-Dinitro-2-Methylphenol	10.21	198	727068	111.54	mg/l #	82
58) N-Nitrosodiphenylamine	10.22	169	2191611	99.65	mg/l	96
60) 4-Bromophenyl-Phenyl Ether	10.61	248	917393	106.06	mg/l #	98
61) Hexachlorobenzene	10.81	284	932985	110.46	mg/l	94
62) Pentachlorophenol	11.00	266	608038	106.69	mg/l #	77
63) Phenanthrene	11.19	178	4358838m	102.19	mg/l	
64) Anthracene	11.24	178	4425436	103.18	mg/l #	95
65) Di-n-Butyl Phthalate	11.80	149	4768697	99.43	mg/l #	100
66) Fluoranthene	12.55	202	4826391	103.28	mg/l #	99
67) Benzidine	12.67	184	1576471	160.63	mg/l #	96
69) Pyrene	12.82	202	4995369	107.11	mg/l #	99
71) Butyl Benzyl Phthalate	13.66	149	2533746	103.00	mg/l #	98
72) 3,3'-Dichlorobenzidine	14.55	252	1162542	88.72	mg/l	98
73) Benzo (a) Anthracene	14.59	228	4991543m	107.84	mg/l	
74) Bis(2-Ethylhexyl) Phthalat	14.63	149	3254018	98.11	mg/l	99
75) Chrysene	14.70	228	4710491m	106.96	mg/l	
77) Di-n-Octyl Phthalate	15.86	149	6112596	99.32	mg/l #	100
78) Benzo (b) Fluoranthene	16.84	252	7467577m	133.85	mg/l	
79) Benzo (k) Fluoranthene	16.89	252	4021022m	102.29	mg/l	
80) Benzo (a) Pyrene	17.57	252	4863978	105.29	mg/l #	92
81) Indeno (1,2,3-c,d) Pyrene	20.58	276	5581808m	106.01	mg/l	
82) Dibenz (a,h) Anthracene	20.61	278	4721847	106.04	mg/l	92
83) Benzo (g,h,i) Perylene	21.40	276	4836129	107.54	mg/l	94

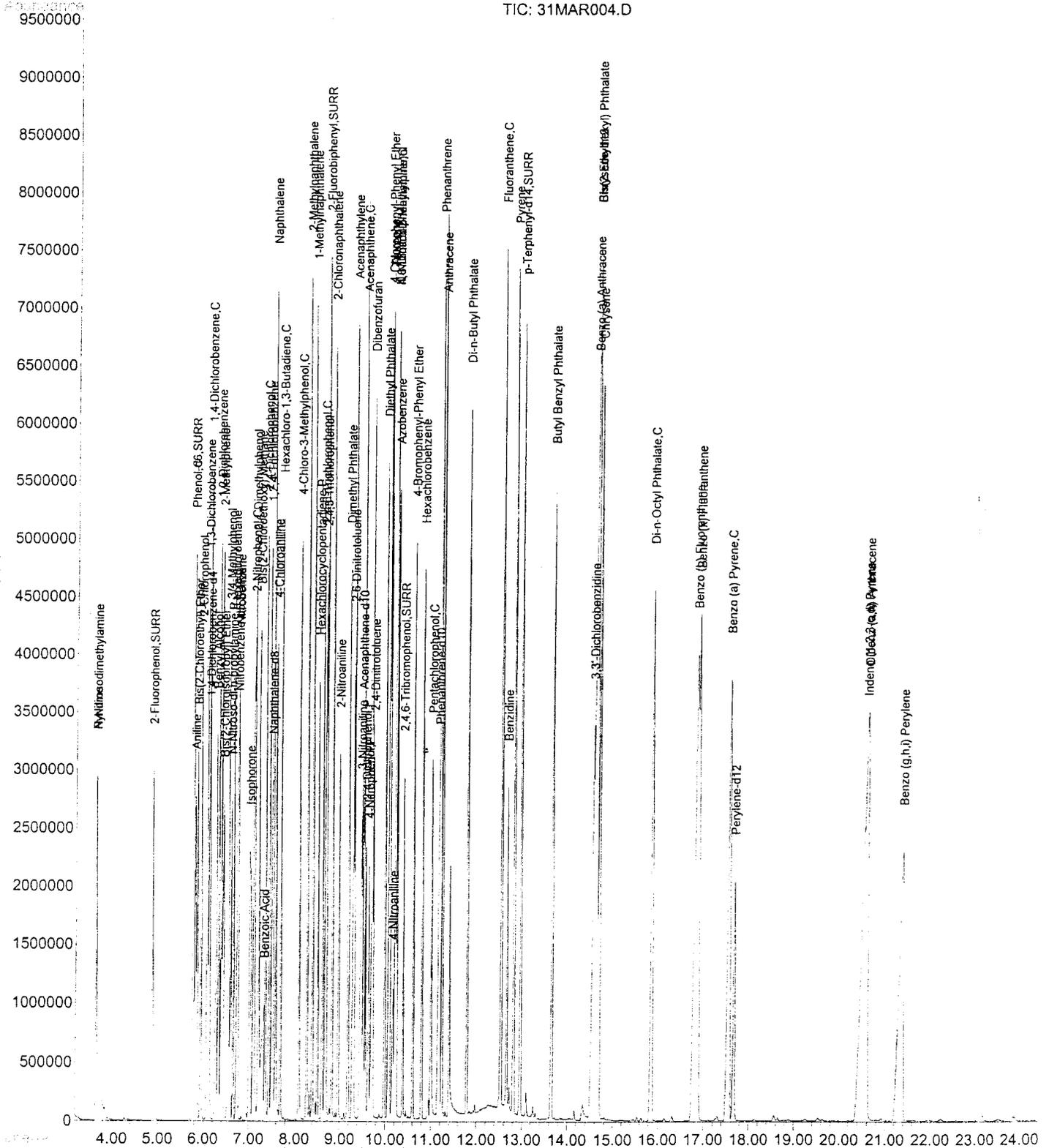
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\000331\31MAR004.D
Acq On : 31 Mar 2000 4:27 pm
Sample : BNA-120 S033000C
Misc :
MS Integration Params: rteint.p
Quant Time: Apr 3 9:23 2000

Vial: 4
Operator:
Inst : GC/MS J
Multiplr: 1.00

Quant Results File: 000303.RES

Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Mon Mar 27 17:04:23 2000
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\000331\31MAR005.D

Vial: 5

Acq On : 31 Mar 2000 5:02 pm

Operator:

Sample : BNA-50 S033000E

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 3 9:36 2000

Quant Results File: 000303.RES

Quant Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Mon Mar 27 17:04:23 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.11	152	478737	40.00	mg/l	-0.01
19) Naphthalene-d8	7.49	136	1708331	40.00	mg/l	-0.01
35) Acenaphthene-d10	9.47	164	1041782	40.00	mg/l	-0.01
55) Phenanthrene-d10	11.15	188	1681004	40.00	mg/l	-0.01
68) Chrysene-d12	14.61	240	1494463	40.00	mg/l	-0.02
76) Perylene-d12	17.66	264	1397336	40.00	mg/l	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	4.86	112	755246	44.13	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	44.13%	
6) Phenol-d6	5.75	99	881169	44.30	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	44.30%	
20) Nitrobenzene-d5	6.72	82	699277	44.68	mg/l	-0.01
Spiked Amount	100.000		Recovery	=	44.68%	
40) 2-Fluorobiphenyl	8.69	172	1517055	50.65	mg/l	-0.01
Spiked Amount	100.000		Recovery	=	50.65%	
59) 2,4,6-Tribromophenol	10.37	330	173954	47.90	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	47.90%	
70) p-Terphenyl-d14	12.97	244	1643079	47.03	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	47.03%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Pyridine	3.62	52	533766m	38.06	mg/ml	
3) N-Nitrosodimethylamine	3.63	74	419372m	41.75	mg/l	
5) Aniline	5.81	93	850443m	42.33	mg/l	
7) Phenol	5.76	94	881850	44.84	mg/l	97
8) Bis(2-Chloroethyl) Ether	5.85	93	959817m	45.38	mg/l	
9) 2-Chlorophenol	5.93	128	804619	45.31	mg/l #	78
10) 1,3-Dichlorobenzene	6.07	146	812295	45.98	mg/l #	90
11) 1,4-Dichlorobenzene	6.13	146	834703	47.64	mg/l #	90
12) Benzyl Alcohol	6.26	79	493448	38.63	mg/l #	81
13) 1,2-Dichlorobenzene	6.33	146	793121	47.17	mg/l #	87
14) 2-Methylphenol	6.37	108	704970m	45.67	mg/l	
15) Bis(2-Chloroisopropyl) Eth	6.41	45	687101m	33.54	mg/l	
16) 3/4-Methylphenol	6.53	107	796434	42.46	mg/l #	95
17) N-Nitroso-di-n-propylamine	6.57	70	390764	40.80	mg/l	82
18) Hexachloroethane	6.65	117	301991	45.24	mg/l	84
21) Nitrobenzene	6.75	77	664720	45.85	mg/l #	96
22) Isophorone	6.99	82	1214716	43.24	mg/l	99
23) 2-Nitrophenol	7.08	139	433949m	51.34	mg/l	
24) 2,4-Dimethylphenol	7.10	107	647234	47.94	mg/l	97
25) Benzoic Acid	7.26	105	470461	42.38	mg/l	98
26) Bis(2-Chloroethoxy) Methan	7.20	93	828993	46.17	mg/l	99
27) 2,4-Dichlorophenol	7.34	162	611927	49.23	mg/l #	91
28) 1,2,4-Trichlorobenzene	7.44	180	667603	50.32	mg/l	100
29) Naphthalene	7.51	128	2092162	53.33	mg/l #	95
30) 4-Chloroaniline	7.57	127	748437m	46.06	mg/l	
31) Hexachloro-1,3-Butadiene	7.69	225	341980	51.96	mg/l	98
32) 4-Chloro-3-Methylphenol	8.09	107	593774	47.60	mg/l	99
) 2-Methylnaphthalene	8.27	142	1391148	51.14	mg/l	98
34) 1-Methylnaphthalene	8.40	142	1300509	50.71	mg/l	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\000331\31MAR005.D
 Acq On : 31 Mar 2000 5:02 pm
 Sample : BNA-50 S033000E
 Misc :

Vial: 5
 Operator:
 Inst : GC/MS J
 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 3 9:36 2000

Quant Results File: 000303.RES

Quant Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Mon Mar 27 17:04:23 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.11	152	478737	40.00	mg/l	-0.01
19) Naphthalene-d8	7.49	136	1708331	40.00	mg/l	-0.01
35) Acenaphthene-d10	9.47	164	1041782	40.00	mg/l	-0.01
55) Phenanthrene-d10	11.15	188	1681004	40.00	mg/l	-0.01
68) Chrysene-d12	14.61	240	1494463	40.00	mg/l	-0.02
76) Perylene-d12	17.66	264	1397336	40.00	mg/l	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	4.86	112	755246	44.13	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	44.13%	
6) Phenol-d6	5.75	99	881169	44.30	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	44.30%	
20) Nitrobenzene-d5	6.72	82	699277	44.68	mg/l	-0.01
Spiked Amount	100.000		Recovery	=	44.68%	
40) 2-Fluorobiphenyl	8.69	172	1517055	50.65	mg/l	-0.01
Spiked Amount	100.000		Recovery	=	50.65%	
59) 2,4,6-Tribromophenol	10.37	330	173954	47.90	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	47.90%	
70) p-Terphenyl-d14	12.97	244	1643079	47.03	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	47.03%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Pyridine	3.62	52	533766m	38.06	mg/ml	
3) N-Nitrosodimethylamine	3.63	74	419372m	41.75	mg/l	
5) Aniline	5.81	93	850443m	42.33	mg/l	
7) Phenol	5.76	94	881850	44.84	mg/l	97
8) Bis(2-Chloroethyl) Ether	5.85	93	959817m	45.38	mg/l	
9) 2-Chlorophenol	5.93	128	804619	45.31	mg/l	# 78
10) 1,3-Dichlorobenzene	6.07	146	812295	45.98	mg/l	# 90
11) 1,4-Dichlorobenzene	6.13	146	834703	47.64	mg/l	# 90
12) Benzyl Alcohol	6.26	79	493448	38.63	mg/l	# 81
13) 1,2-Dichlorobenzene	6.33	146	793121	47.17	mg/l	# 87
14) 2-Methylphenol	6.37	108	704970m	45.67	mg/l	
15) Bis(2-Chloroisopropyl) Eth	6.41	45	687101m	33.54	mg/l	
16) 3/4-Methylphenol	6.53	107	796434	42.46	mg/l	# 95
17) N-Nitroso-di-n-propylamine	6.57	70	390764	40.80	mg/l	82
18) Hexachloroethane	6.65	117	301991	45.24	mg/l	84
21) Nitrobenzene	6.75	77	664720	45.85	mg/l	# 96
22) Isophorone	6.99	82	1214716	43.24	mg/l	99
23) 2-Nitrophenol	7.08	139	433949m	51.34	mg/l	
24) 2,4-Dimethylphenol	7.10	107	647234	47.94	mg/l	97
25) Benzoic Acid	7.26	105	470461	42.38	mg/l	98
26) Bis(2-Chloroethoxy) Methan	7.20	93	828993	46.17	mg/l	99
27) 2,4-Dichlorophenol	7.34	162	611927	49.23	mg/l	# 91
28) 1,2,4-Trichlorobenzene	7.44	180	667603	50.32	mg/l	100
29) Naphthalene	7.51	128	2092162	53.33	mg/l	# 95
30) 4-Chloroaniline	7.57	127	748437m	46.06	mg/l	
31) Hexachloro-1,3-Butadiene	7.69	225	341980	51.96	mg/l	98
32) 4-Chloro-3-Methylphenol	8.09	107	593774	47.60	mg/l	99
33) 2-Methylnaphthalene	8.27	142	1391148	51.14	mg/l	98
34) 1-Methylnaphthalene	8.40	142	1300509	50.71	mg/l	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\000331\31MAR005.D
 Acq On : 31 Mar 2000 5:02 pm
 Sample : BNA-50 S033000E
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 3 9:36 2000

Vial: 5
 Operator:
 Inst : GC/MS J
 Multiplr: 1.00

Quant Results File: 000303.RES

nt Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
 Title : BNA 8270/625 CALIBRATION
 Last Update : Mon Mar 27 17:04:23 2000
 Response via : Initial Calibration
 DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Hexachlorocyclopentadiene	8.52	237	290062	50.27	mg/l #	100
37) 2,4,6-Trichlorophenol	8.61	196	439684	48.96	mg/l	98
38) 2,4,5-Trichlorophenol	8.66	196	487996m	49.38	mg/l	
39) 2-Chloronaphthalene	8.82	162	1321243	49.04	mg/l #	100
41) 2-Nitroaniline	8.97	65	340915	40.57	mg/l	95
42) Dimethyl Phthalate	9.18	163	1487534	48.05	mg/l	100
43) Acenaphthylene	9.30	152	2057458	50.31	mg/l #	100
44) 3-Nitroaniline	9.44	138	212059	29.84	mg/l	95
45) Acenaphthene	9.51	153	1313206	48.33	mg/l #	86
46) 2,4-Dinitrophenol	9.54	184	237718	48.22	mg/l	93
47) 4-Nitrophenol	9.61	139	299089	41.40	mg/l	95
48) Dibenzofuran	9.69	168	1799871	51.02	mg/l	100
49) 2,4-Dinitrotoluene	9.71	165	496907	46.49	mg/l	96
50) 2,6-Dinitrotoluene	9.27	165	384226	47.07	mg/l	97
51) Diethyl Phthalate	9.97	149	1419054	47.56	mg/l	99
52) 4-Chlorophenyl-Phenyl Ethe	10.06	204	747098	50.17	mg/l #	76
53) Fluorene	10.08	166	1489015	49.11	mg/l #	58
54) 4-Nitroaniline	10.14	138	201369m	37.14	mg/l	
56) Azobenzene	10.24	77	1301791	41.48	mg/l	97
7) 4,6-Dinitro-2-Methylphenol	10.18	198	325352	50.56	mg/l	92
8) N-Nitrosodiphenylamine	10.20	169	935808	43.10	mg/l	96
60) 4-Bromophenyl-Phenyl Ether	10.61	248	405886	47.53	mg/l #	99
61) Hexachlorobenzene	10.80	284	410253	49.20	mg/l	94
62) Pentachlorophenol	10.99	266	245109	43.57	mg/l #	77
63) Phenanthrene	11.17	178	2086722	49.56	mg/l #	95
64) Anthracene	11.23	178	2156982	50.94	mg/l #	95
65) Di-n-Butyl Phthalate	11.79	149	2378198	50.23	mg/l #	100
66) Fluoranthene	12.53	202	2291396	49.67	mg/l #	100
67) Benzidine	12.65	184	505156	52.14	mg/l #	96
69) Pyrene	12.81	202	2340595	46.91	mg/l	99
71) Butyl Benzyl Phthalate	13.65	149	1120137	42.56	mg/l #	98
72) 3,3'-Dichlorobenzidine	14.52	252	442508	31.56	mg/l	93
73) Benzo (a) Anthracene	14.58	228	2225419	44.93	mg/l	99
74) Bis(2-Ethylhexyl) Phthalat	14.62	149	1505762	42.43	mg/l	99
75) Chrysene	14.67	228	2096916m	44.50	mg/l	
77) Di-n-Octyl Phthalate	15.85	149	2728440	45.08	mg/l #	100
78) Benzo (b) Fluoranthene	16.79	252	2203509	40.16	mg/l #	91
79) Benzo (k) Fluoranthene	16.84	252	2112537m	54.64	mg/l	
80) Benzo (a) Pyrene	17.53	252	2041910	44.94	mg/l #	90
81) Indeno (1,2,3-c,d) Pyrene	20.46	276	2277464m	43.98	mg/l	
82) Dibenz (a,h) Anthracene	20.52	278	1919907	43.84	mg/l #	84
83) Benzo (g,h,i) Perylene	21.29	276	1952687	44.15	mg/l #	86

(#) = qualifier out of range (m) = manual integration
 31MAR005.D 000303.M Mon Apr 03 09:36:59 2000

Data File : C:\HPCHEM\1\DATA\000331\31MAR005.D
Acq On : 31 Mar 2000 5:02 pm
Sample : BNA-50 S033000E
Misc :
MS Integration Params: rteint.p
Quant Time: Apr 3 9:36 2000

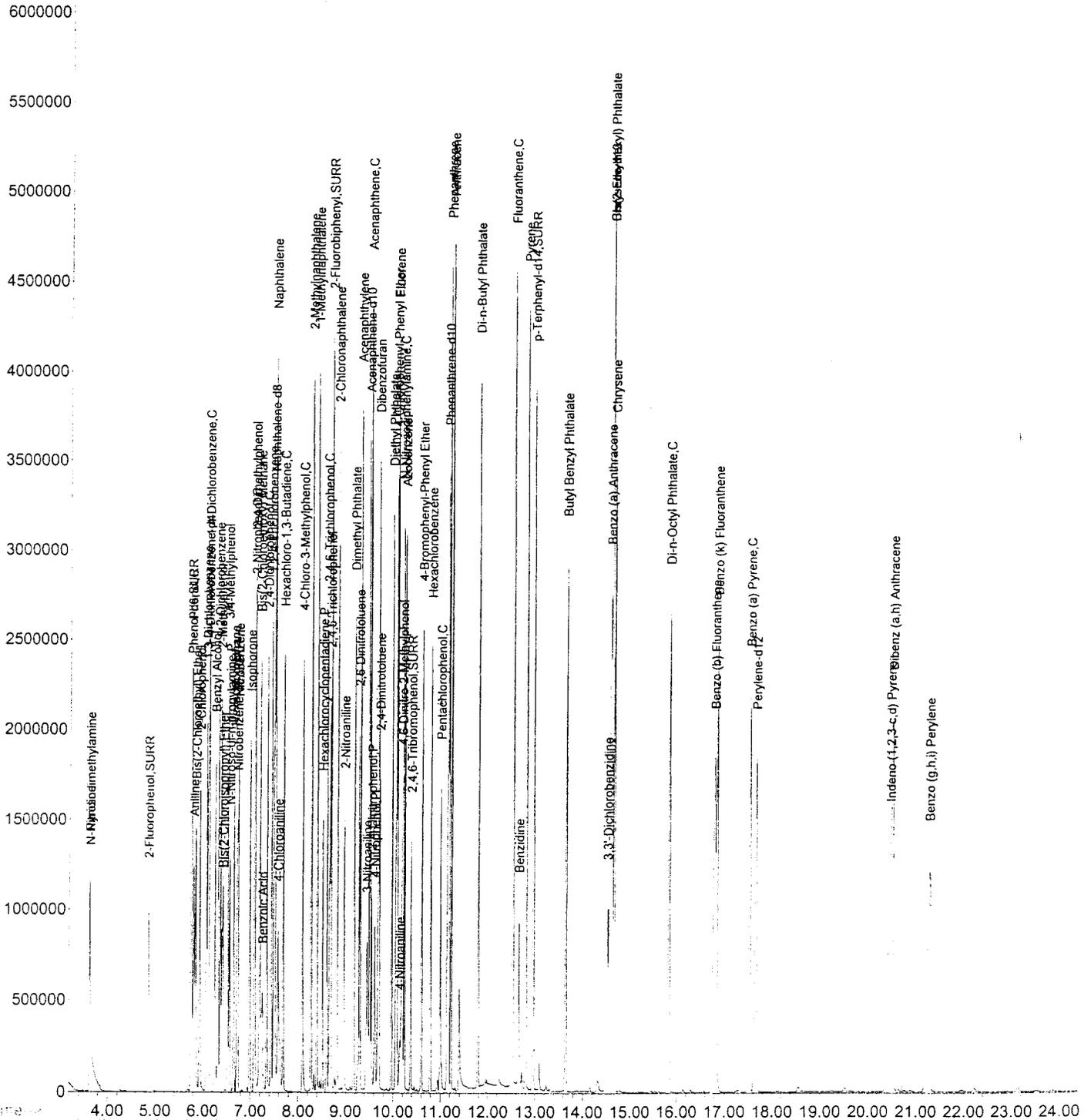
Vial: 5
Operator:
Inst : GC/MS J
Multiplr: 1.00

Quant Results File: 000303.RES

Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Mon Mar 27 17:04:23 2000
Response via : Initial Calibration

Abundance

TIC: 31MAR005.D



Data File : C:\HPCHEM\1\DATA\000331\31MAR006.D

Vial: 6

Acq On : 31 Mar 2000 5:37 pm

Operator:

Sample : BNA-20 S033000F

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 3 9:57 2000

Quant Results File: 000303.RES

Quant Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Mon Mar 27 17:04:23 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	6.11	152	475797	40.00	mg/l	-0.01
19) Naphthalene-d8	7.49	136	1649210	40.00	mg/l	-0.01
35) Acenaphthene-d10	9.47	164	991942	40.00	mg/l	-0.01
55) Phenanthrene-d10	11.14	188	1586287	40.00	mg/l	-0.01
68) Chrysene-d12	14.60	240	1473368	40.00	mg/l	-0.03
76) Perylene-d12	17.65	264	1311750	40.00	mg/l	-0.03

System Monitoring Compounds

4) 2-Fluorophenol	4.86	112	299077	17.58	mg/l1	-0.02
Spiked Amount	100.000		Recovery	=	17.58%	
6) Phenol-d6	5.74	99	359635	18.19	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	18.19%	
20) Nitrobenzene-d5	6.72	82	279834	18.52	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	18.52%	
40) 2-Fluorobiphenyl	8.68	172	636986	22.34	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	22.34%	
59) 2,4,6-Tribromophenol	10.37	330	66869	19.51	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	19.51%	
70) p-Terphenyl-d14	12.96	244	674728	19.59	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	19.59%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Pyridine	3.62	52	213488m	15.32	mg/ml	
3) N-Nitrosodimethylamine	3.63	74	166963m	16.73	mg/l	
5) Aniline	5.81	93	277428m	13.89	mg/l1	
7) Phenol	5.76	94	360124	18.42	mg/l #	91
8) Bis(2-Chloroethyl) Ether	5.84	93	390136m	18.56	mg/l	
9) 2-Chlorophenol	5.93	128	325056	18.42	mg/l #	85
10) 1,3-Dichlorobenzene	6.07	146	334205	19.03	mg/l #	90
11) 1,4-Dichlorobenzene	6.12	146	344824	19.80	mg/l #	90
12) Benzyl Alcohol	6.25	79	187823	14.79	mg/l #	81
13) 1,2-Dichlorobenzene	6.32	146	326439	19.53	mg/l #	87
14) 2-Methylphenol	6.37	108	285308m	18.60	mg/l	
15) Bis(2-Chloroisopropyl) Eth	6.41	45	276112m	13.56	mg/l	
16) 3/4-Methylphenol	6.52	107	312988	16.79	mg/l #	96
17) N-Nitroso-di-n-propylamine	6.56	70	156683	16.46	mg/l	83
18) Hexachloroethane	6.65	117	121119	18.26	mg/l	83
21) Nitrobenzene	6.74	77	263856	18.85	mg/l #	96
22) Isophorone	6.98	82	487130	17.96	mg/l	99
23) 2-Nitrophenol	7.08	139	171382m	21.00	mg/l	
24) 2,4-Dimethylphenol	7.09	107	263822	20.24	mg/l	97
25) Benzoic Acid	7.21	105	161536	15.07	mg/l	95
26) Bis(2-Chloroethoxy) Methan	7.20	93	332381	19.17	mg/l #	96
27) 2,4-Dichlorophenol	7.34	162	247952	20.66	mg/l	99
28) 1,2,4-Trichlorobenzene	7.43	180	271778	21.22	mg/l	99
29) Naphthalene	7.51	128	897140	23.69	mg/l #	95
30) 4-Chloroaniline	7.58	127	189052m	12.05	mg/l	
31) Hexachloro-1,3-Butadiene	7.69	225	139988	22.03	mg/l #	75
2) 4-Chloro-3-Methylphenol	8.09	107	235056	19.52	mg/l	99
33) 2-Methylnaphthalene	8.27	142	577885	22.00	mg/l	98
34) 1-Methylnaphthalene	8.39	142	538373	21.75	mg/l	98

(#)=qualifier out of range (m)=manual integration

31MAR006.D 000303.M

Mon Apr 03 09:58:19 2000

Data File : C:\HPCHEM\1\DATA\000331\31MAR006.D

Vial: 6

Acq On : 31 Mar 2000 5:37 pm

Operator:

Sample : BNA-20 S033000F

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 3 9:57 2000

Quant Results File: 000303.RES

Quant Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Mon Mar 27 17:04:23 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Hexachlorocyclopentadiene	8.51	237	96811	17.62	mg/l #	100
37) 2,4,6-Trichlorophenol	8.60	196	172648m	20.19	mg/l	
38) 2,4,5-Trichlorophenol	8.66	196	191032m	20.30	mg/l	
39) 2-Chloronaphthalene	8.82	162	545268	21.26	mg/l #	100
41) 2-Nitroaniline	8.96	65	135253	16.90	mg/l	96
42) Dimethyl Phthalate	9.17	163	609412	20.67	mg/l	100
43) Acenaphthylene	9.30	152	878440	22.56	mg/l #	100
44) 3-Nitroaniline	9.43	138	78590	11.61	mg/l #	50
45) Acenaphthene	9.50	153	546021	21.10	mg/l	97
46) 2,4-Dinitrophenol	9.53	184	77720	16.56	mg/l #	79
47) 4-Nitrophenol	9.61	139	103157	15.00	mg/l	95
48) Dibenzofuran	9.68	168	753098	22.42	mg/l #	88
49) 2,4-Dinitrotoluene	9.70	165	194484	19.11	mg/l	96
50) 2,6-Dinitrotoluene	9.26	165	149974	19.30	mg/l	96
51) Diethyl Phthalate	9.96	149	588689	20.72	mg/l	99
52) 4-Chlorophenyl-Phenyl Ethe	10.05	204	309715	21.84	mg/l #	76
53) Fluorene	10.07	166	625067	21.65	mg/l #	58
54) 4-Nitroaniline	10.13	138	99791m	19.33	mg/l	
56) Azobenzene	10.23	77	535042	18.07	mg/l	97
57) 4,6-Dinitro-2-Methylphenol	10.16	198	116868	19.25	mg/l	92
58) N-Nitrosodiphenylamine	10.19	169	428965	20.94	mg/l	97
60) 4-Bromophenyl-Phenyl Ether	10.60	248	163772	20.32	mg/l #	98
61) Hexachlorobenzene	10.79	284	164609	20.92	mg/l	94
62) Pentachlorophenol	10.99	266	85622	16.13	mg/l	98
63) Phenanthrene	11.17	178	880791	22.17	mg/l #	95
64) Anthracene	11.22	178	923377	23.11	mg/l #	95
65) Di-n-Butyl Phthalate	11.78	149	1029622	23.04	mg/l	100
66) Fluoranthene	12.52	202	969058	22.26	mg/l #	100
67) Benzidine	12.65	184	120972	13.23	mg/l	99
69) Pyrene	12.80	202	990178	20.13	mg/l #	100
71) Butyl Benzyl Phthalate	13.64	149	447239	17.24	mg/l #	98
72) 3,3'-Dichlorobenzidine	14.51	252	190629	13.79	mg/l	92
73) Benzo (a) Anthracene	14.56	228	900931	18.45	mg/l #	92
74) Bis(2-Ethylhexyl) Phthalat	14.61	149	622327	17.79	mg/l	99
75) Chrysene	14.65	228	847145m	18.24	mg/l	
77) Di-n-Octyl Phthalate	15.83	149	1083601	19.07	mg/l	100
78) Benzo (b) Fluoranthene	16.75	252	846848m	16.44	mg/l	
79) Benzo (k) Fluoranthene	16.81	252	843219m	23.23	mg/l	
80) Benzo (a) Pyrene	17.50	252	795862	18.66	mg/l #	90
81) Indeno (1,2,3-c,d) Pyrene	20.40	276	869390	17.88	mg/l	80
82) Dibenz (a,h) Anthracene	20.46	278	741284	18.03	mg/l #	84
83) Benzo (g,h,i) Perylene	21.22	276	737656	17.77	mg/l	98

(#) = qualifier out of range (m) = manual integration

31MAR006.D 000303.M

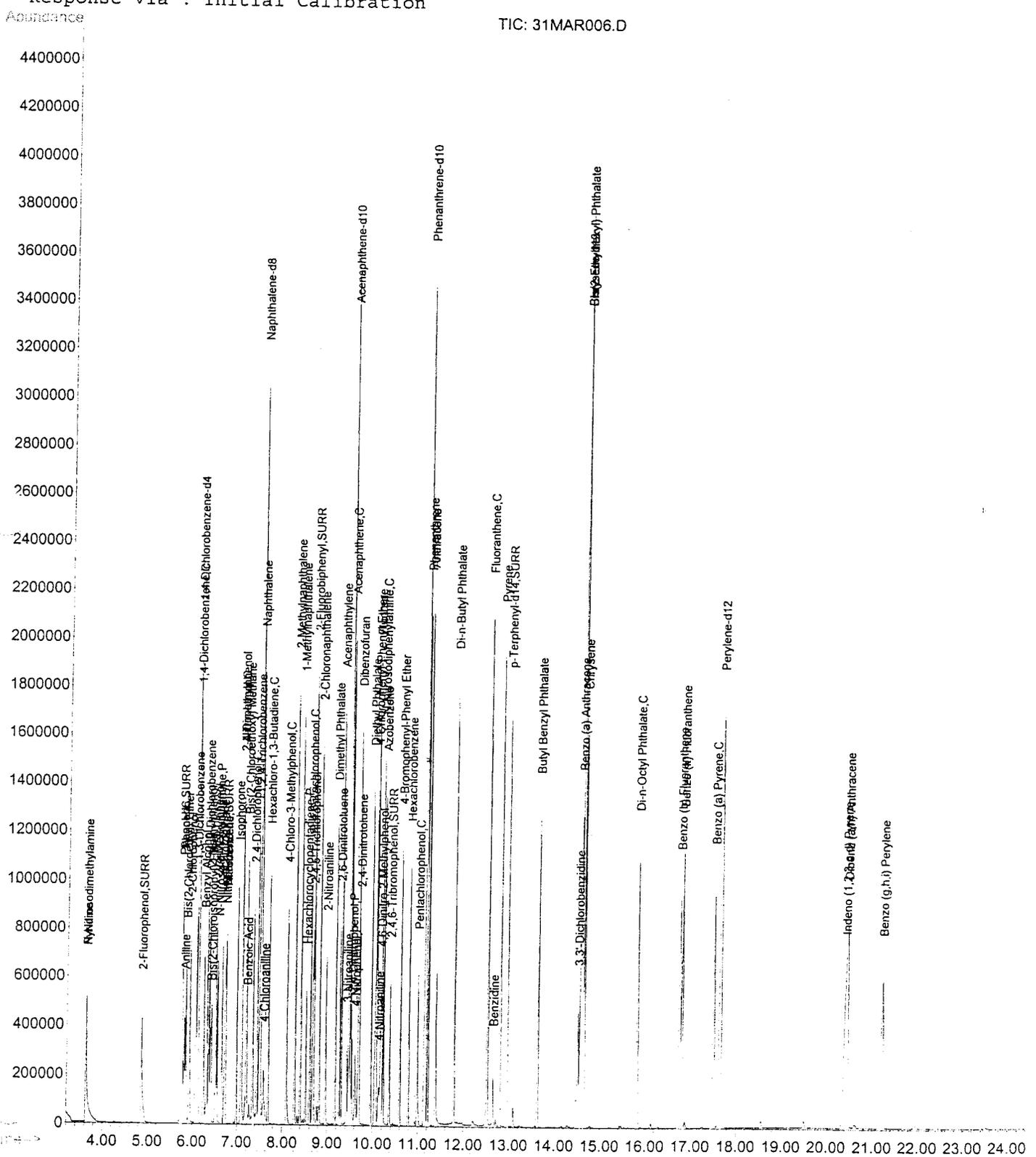
Mon Apr 03 09:58:22 2000

Data File : C:\HPCHEM\1\DATA\000331\31MAR006.D
 Acq On : 31 Mar 2000 5:37 pm
 Sample : BNA-20 S033000F
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 3 9:57 2000

Vial: 6
 Operator:
 Inst : GC/MS J
 Multiplr: 1.00

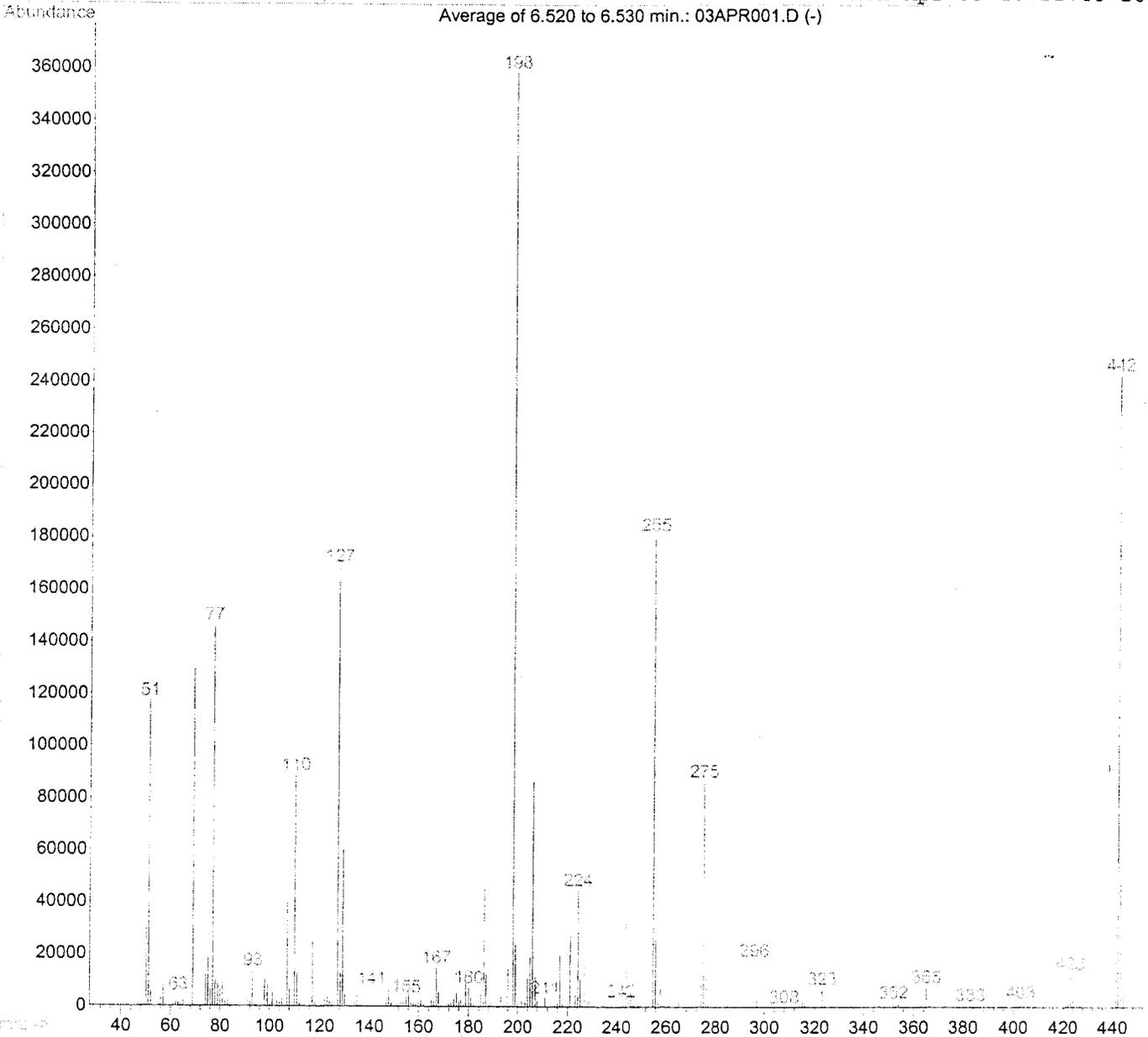
Quant Results File: 000303.RES

Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
 Title : BNA 8270/625 CALIBRATION
 Last Update : Mon Mar 27 17:04:23 2000
 Response via : Initial Calibration



C:\HPCHEM\1\DATA\000403\03APR001.D

Mon Apr 03 10:22:48 2000



Peak Apex is scan: 631

Average of 3 scans: 630, 631, 632 minus background scan 623

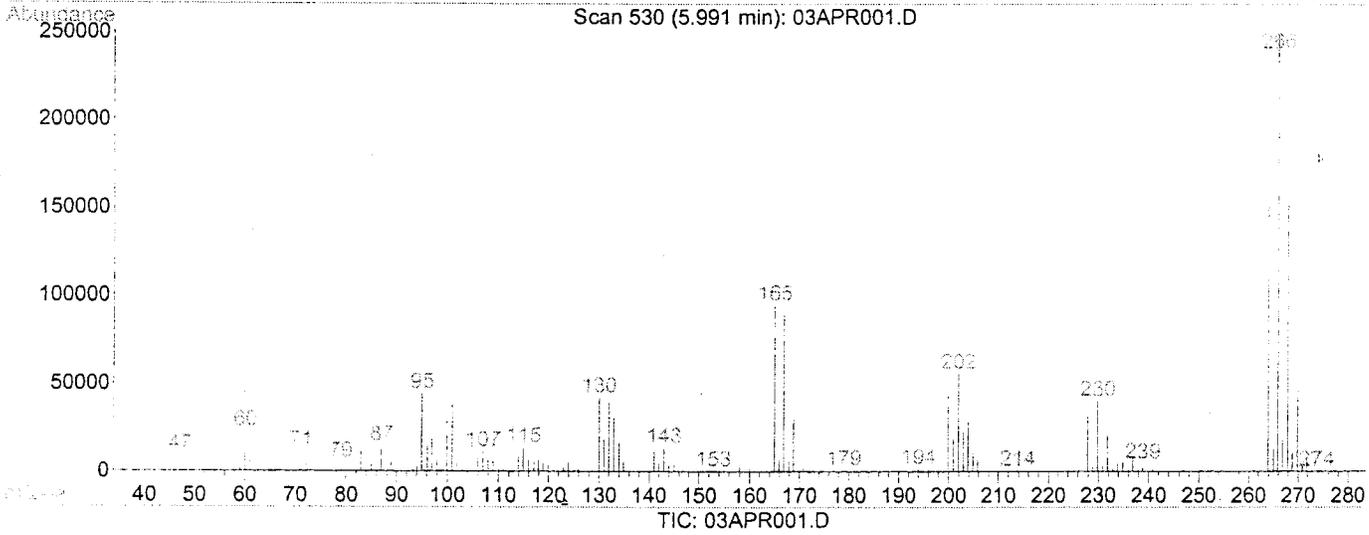
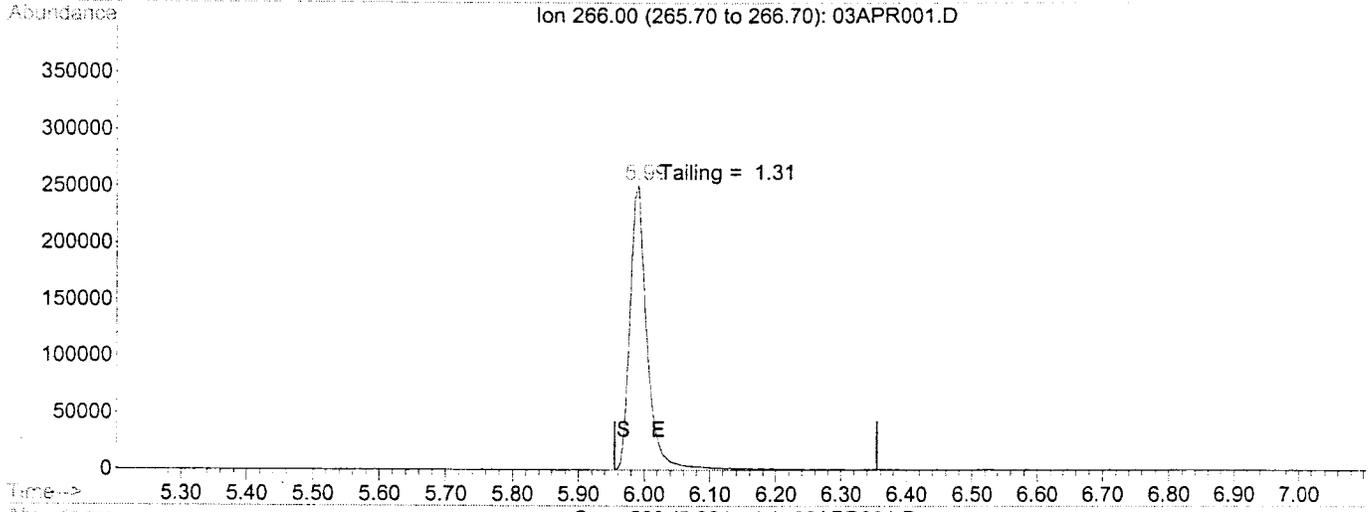
Target Mass	Comparison Mass	Lower Limit, %	Upper Limit, %	Relative Abundance, %	Result Pass/Fail
51	198	30	60	32.7	PASS
68	69	0	2	0.0	PASS
69	198	0	100	36.1	PASS
70	69	0	2	0.6	PASS
127	198	40	60	47.1	PASS
197	198	0	1	0.0	PASS
198	198	100	100	100.0	PASS
199	198	5	9	6.7	PASS
275	198	10	30	24.2	PASS
365	198	1	100	2.2	PASS
441	443	0	100	74.7	PASS
442	198	40	100	67.8	PASS
443	442	17	23	19.6	PASS

Data File : C:\HPCHEM\1\DATA\000403\03APR001.D
 Acq On : 3 Apr 2000 10:11 am
 Sample : DFTPP S032000A
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 3 10:27 2000

Vial: 1
 Operator:
 Inst : GC/MS J
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : bbbbbb
 Last Update : Thu Feb 10 14:39:19 2000
 Response via : Single Level Calibration



(1) Pentachlorophenol

5.99min 0.00 m

response 451925

Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\000403\03APR001.D

Vial: 1

Acq On : 3 Apr 2000 10:11 am

Operator:

Sample : DFTPP S032000A

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 3 10:27 2000

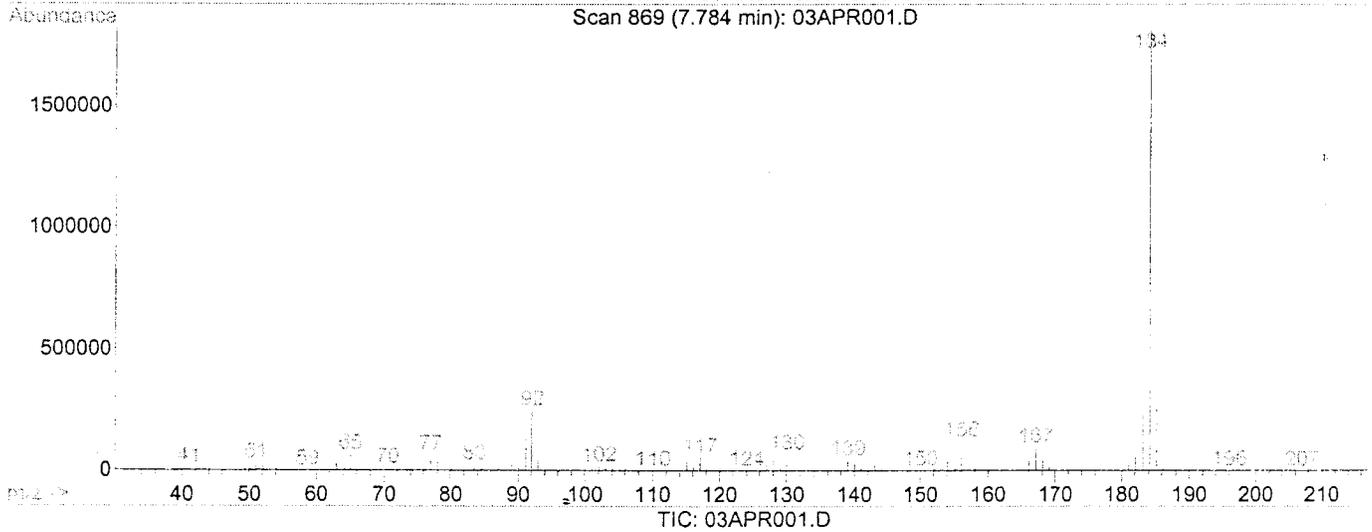
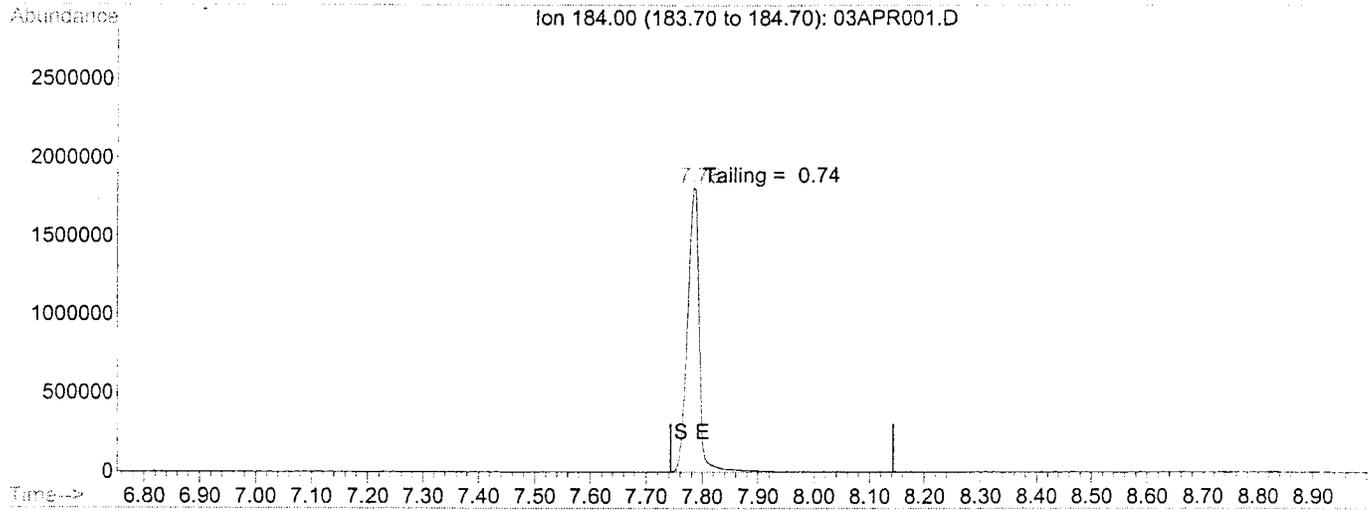
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)

Title : bbbbb

Last Update : Thu Feb 10 14:39:19 2000

Response via : Single Level Calibration



(3) Benzidine

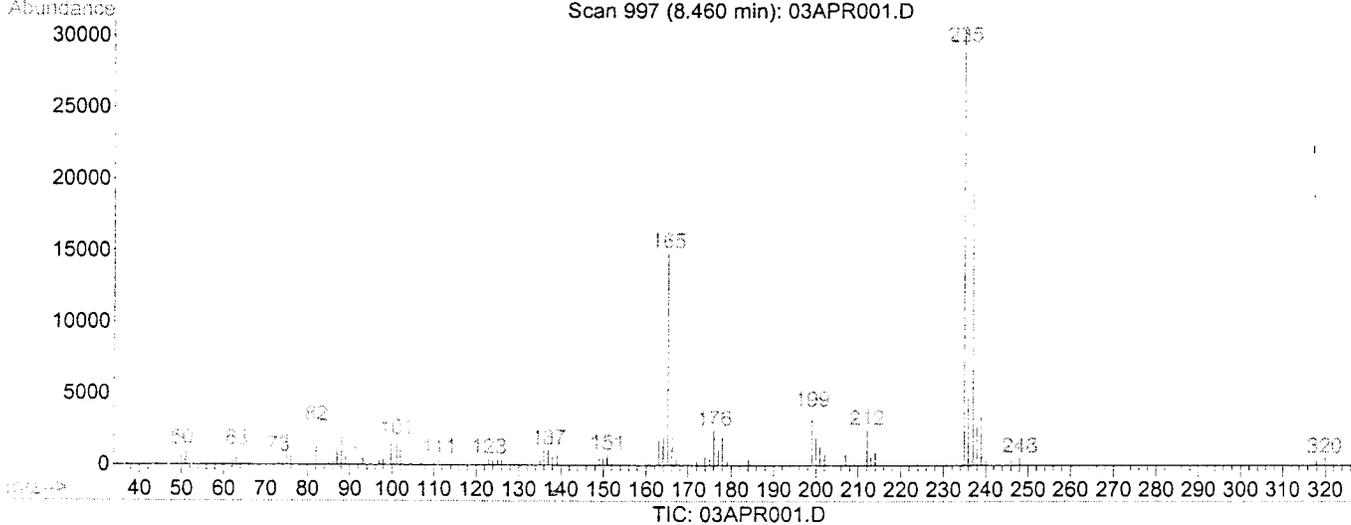
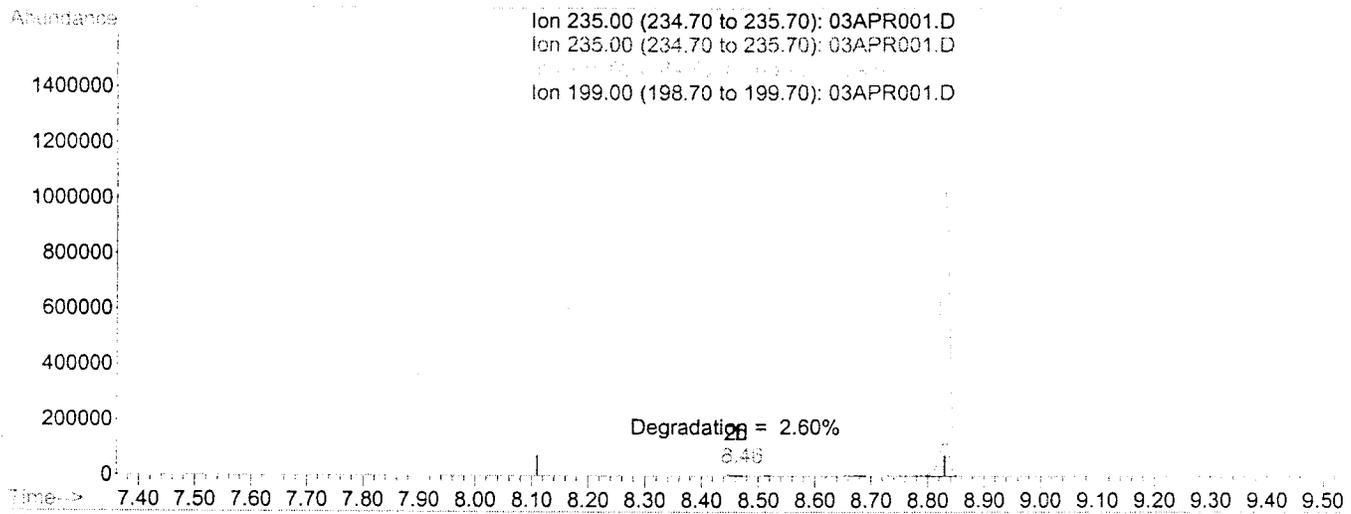
7.78min 0.00

response 2660430

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\000403\03APR001.D Vial: 1
 Acq On : 3 Apr 2000 10:11 am Operator:
 Sample : DFTPP S032000A Inst : GC/MS J
 Misc : Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Apr 3 11:30 2000 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : bbbbb
 Last Update : Thu Feb 10 14:39:19 2000
 Response via : Single Level Calibration



(5) DDD

8.46min 0.00

response 33708

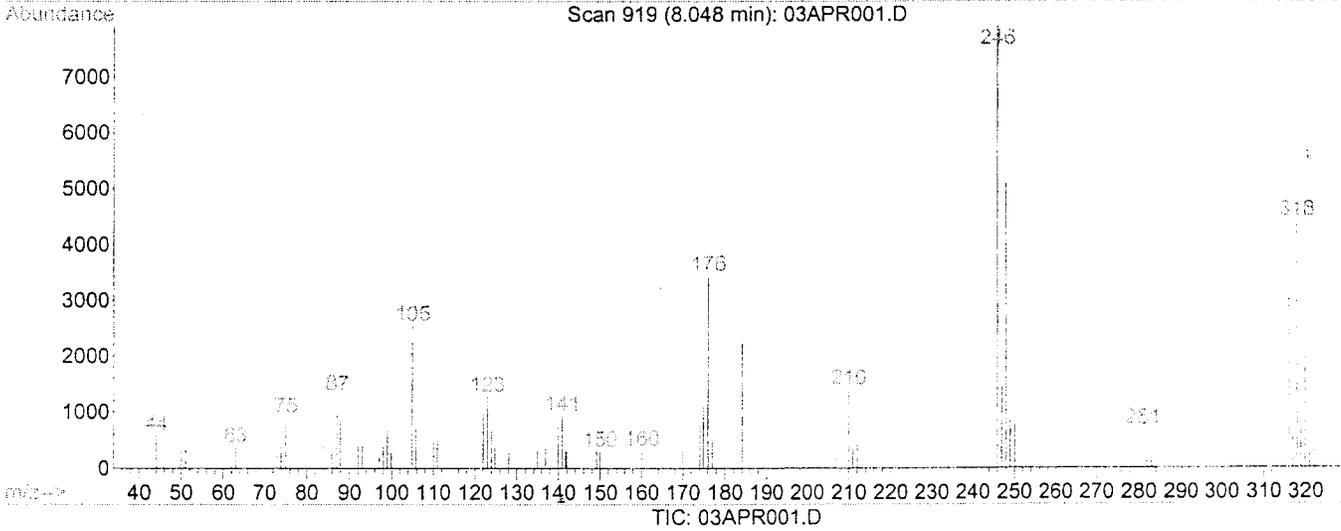
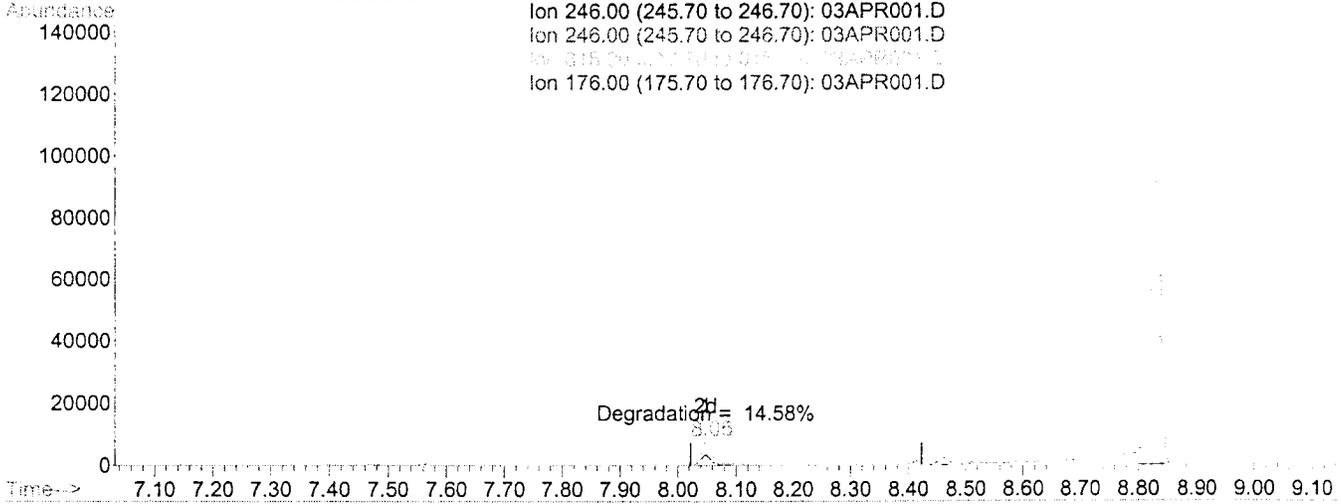
Ion	Exp%	Act%
235.00	100	100
235.00	100.00	100.00
165.00	60.00	48.20
199.00	13.00	12.74

Data File : C:\HPCHEM\1\DATA\000403\03APR001.D
 Acq On : 3 Apr 2000 10:11 am
 Sample : DFTPP S032000A
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 3 11:30 2000

Vial: 1
 Operator:
 Inst : GC/MS J
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : bbbbbb
 Last Update : Thu Feb 10 14:39:19 2000
 Response via : Single Level Calibration



(6) DDE

8.05min 0.00

response 10351

Ion	Exp%	Act%
246.00	100	100
246.00	70.00	100.00#
318.00	65.00	52.69
176.00	60.00	0.00#

Data File : C:\HPCHEM\1\DATA\000403\03APR001.D Vial: 1
 Acq On : 3 Apr 2000 10:11 am Operator:
 Sample : DFTPP S032000A Inst : GC/MS J
 Misc : Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Apr 3 11:30 2000 Quant Results File: DFTPP.RES

Quant Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : bbbbbb
 Last Update : Thu Feb 10 14:39:19 2000
 Response via : Initial Calibration
 DataAcq Meth : DFTPP625

Internal Standards R.T. QIon Response Conc Units Dev(Min)

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
1) Pentachlorophenol	5.99	266	451925	No Calib			
2) DFTPP	6.53	198	491209	250.05	MG/L		100
3) Benzidine	7.78	184	2660430	No Calib			
4) DDT	8.83	235	1262538	No Calib			
5) DDD	8.46	235	33708	No Calib			
6) DDE	8.05	246	10351	No Calib			#

 (#) = qualifier out of range (m) = manual integration
 03APR001.D DFTPP.M Mon Apr 03 11:32:00 2000

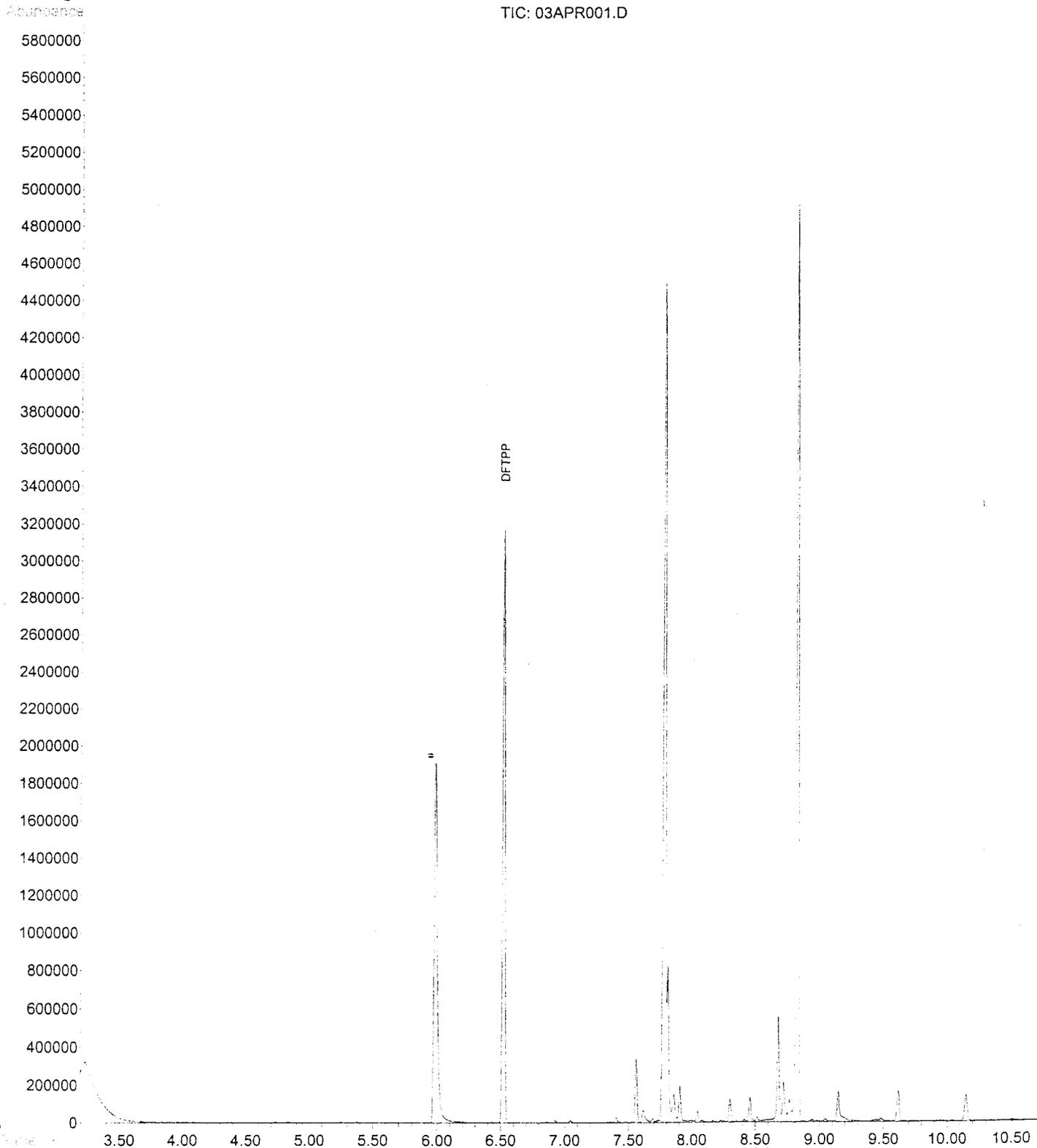
Data File : C:\HPCHEM\1\DATA\000403\03APR001.D
Acq On : 3 Apr 2000 10:11 am
Sample : DFTPP S032000A
Misc :
MS Integration Params: rteint.p
Quant Time: Apr 3 11:30 2000

Vial: 1
Operator:
Inst : GC/MS J
Multiplr: 1.00

Quant Results File: DFTPP.RES

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : bbbbb
Last Update : Thu Feb 10 14:39:19 2000
Response via : Initial Calibration

TIC: 03APR001.D



Data File : C:\HPCHEM\1\DATA\000403\03APR002.D Vial: 2
 Acq On : 3 Apr 2000 11:33 am Operator:
 Sample : BNA-80 ICV S012800B Inst : GC/MS J
 Misc : Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 3 15:33 2000

Quant Results File: 000331.RES

Quant Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Mon Apr 03 15:17:42 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	6.11	152	470154	40.00	mg/l	0.00
19) Naphthalene-d8	7.49	136	1756205	40.00	mg/l	0.00
35) Acenaphthene-d10	9.48	164	1082490	40.00	mg/l	0.00
55) Phenanthrene-d10	11.15	188	1753706	40.00	mg/l	0.00
68) Chrysene-d12	14.62	240	1528958	40.00	mg/l	-0.02
76) Perylene-d12	17.66	264	1503641	40.00	mg/l	-0.04

System Monitoring Compounds

4) 2-Fluorophenol	4.86	112	1207999	80.73	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	80.73%	
6) Phenol-d6	5.75	99	1393570	81.11	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	81.11%	
20) Nitrobenzene-d5	6.73	82	1156457	80.96	mg/l	0.00
Spiked Amount	100.000		Recovery	=	80.96%	
40) 2-Fluorobiphenyl	8.70	172	2287022	77.51	mg/l	-0.01
Spiked Amount	100.000		Recovery	=	77.51%	
59) 2,4,6-Tribromophenol	10.38	330	290939	81.14	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	81.14%	
70) p-Terphenyl-d14	12.97	244	2682415	80.41	mg/l	-0.01
Spiked Amount	100.000		Recovery	=	80.41%	

Target Compounds

						Qvalue
2) Pyridine	3.63	52	842349m	79.37	mg/ml	
3) N-Nitrosodimethylamine	3.65	74	615800	73.95	mg/l #	88
5) Aniline	5.81	93	1293307m	81.46	mg/l	
7) Phenol	5.77	94	1405657	79.24	mg/l	97
8) Bis(2-Chloroethyl) Ether	5.86	93	1268515m	65.45	mg/l	
9) 2-Chlorophenol	5.94	128	1298851	82.23	mg/l #	78
10) 1,3-Dichlorobenzene	6.08	146	1376736m	85.19	mg/l	
11) 1,4-Dichlorobenzene	6.13	146	1355394	84.36	mg/l #	90
12) Benzyl Alcohol	6.27	79	905225	95.05	mg/l #	81
13) 1,2-Dichlorobenzene	6.33	146	1299928	84.65	mg/l #	87
14) 2-Methylphenol	6.38	108	1010995m	72.83	mg/l	
15) Bis(2-Chloroisopropyl) Eth	6.41	45	1275247	94.96	mg/l	94
16) 3/4-Methylphenol	6.54	107	1352059	85.01	mg/l #	95
17) N-Nitroso-di-n-propylamine	6.59	70	616577	78.38	mg/l	82
18) Hexachloroethane	6.65	117	510628	85.83	mg/l	85
21) Nitrobenzene	6.75	77	1122922	84.07	mg/l #	96
22) Isophorone	7.00	82	2096257	82.37	mg/l	99
23) 2-Nitrophenol	7.09	139	688399	79.33	mg/l	95
24) 2,4-Dimethylphenol	7.11	107	919728	70.13	mg/l	97
25) Benzoic Acid	7.29	105	678196m	71.25	mg/l	
26) Bis(2-Chloroethoxy) Methan	7.21	93	1229424	74.28	mg/l	99
27) 2,4-Dichlorophenol	7.35	162	992767	81.00	mg/l #	91
28) 1,2,4-Trichlorobenzene	7.44	180	1113335	82.94	mg/l	100
29) Naphthalene	7.52	128	3159070	78.49	mg/l #	95
30) 4-Chloroaniline	7.58	127	1409255	93.71	mg/l #	93
31) Hexachloro-1,3-Butadiene	7.69	225	557484	82.23	mg/l #	75
2) 4-Chloro-3-Methylphenol	8.09	107	980373	82.33	mg/l	98
3) 2-Methylnaphthalene	8.28	142	2246823	82.72	mg/l	98
34) 1-Methylnaphthalene	8.39	142	2665	N.D.		

(#)= qualifier out of range (m) = manual integration

03APR002.D 000331.M

Mon Apr 03 15:33:28 2000

Data File : C:\HPCHEM\1\DATA\000403\03APR002.D

Vial: 2

Acq On : 3 Apr 2000 11:33 am

Operator:

Sample : BNA-80 ICV S012800B

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 3 15:33 2000

Quant Results File: 000331.RES

Quant Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Mon Apr 03 15:17:42 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Hexachlorocyclopentadiene	8.52	237	493045	77.94	mg/l #	100
37) 2,4,6-Trichlorophenol	8.61	196	711492	79.87	mg/l	98
38) 2,4,5-Trichlorophenol	8.67	196	720831	74.57	mg/l	98
39) 2-Chloronaphthalene	8.83	162	2140722	81.59	mg/l #	100
41) 2-Nitroaniline	8.97	65	605866	85.36	mg/l #	77
42) Dimethyl Phthalate	9.18	163	2185299	72.67	mg/l	100
43) Acenaphthylene	9.31	152	3190183	78.50	mg/l	100
44) 3-Nitroaniline	9.44	138	685836	124.10	mg/l	94
45) Acenaphthene	9.52	153	2066548	79.04	mg/l #	86
46) 2,4-Dinitrophenol	9.55	184	402396	81.07	mg/l	93
47) 4-Nitrophenol	9.62	139	512790	82.58	mg/l	95
48) Dibenzofuran	9.70	168	2905039	81.95	mg/l	99
49) 2,4-Dinitrotoluene	9.72	165	833897	81.66	mg/l	96
50) 2,6-Dinitrotoluene	9.28	165	654512	83.68	mg/l	97
51) Diethyl Phthalate	9.98	149	2075554	73.10	mg/l	99
52) 4-Chlorophenyl-Phenyl Ethe	10.06	204	1082089	73.27	mg/l #	75
53) Fluorene	10.09	166	2309567	78.17	mg/l	98
54) 4-Nitroaniline	10.16	138	517269	117.31	mg/l	86
56) Azobenzene	10.25	77	2049623	76.97	mg/l	97
57) 4,6-Dinitro-2-Methylphenol	10.20	198	513414	80.01	mg/l #	80
58) N-Nitrosodiphenylamine	10.21	169	1489519	74.92	mg/l	95
60) 4-Bromophenyl-Phenyl Ether	10.61	248	596266	71.95	mg/l #	98
61) Hexachlorobenzene	10.80	284	687464	81.87	mg/l	94
62) Pentachlorophenol	11.00	266	443031	86.08	mg/l #	77
63) Phenanthrene	11.18	178	3228429	77.74	mg/l #	94
64) Anthracene	11.23	178	3249457	76.66	mg/l #	95
65) Di-n-Butyl Phthalate	11.79	149	3342356	71.93	mg/l #	100
66) Fluoranthene	12.54	202	3555186	78.09	mg/l #	99
67) Benzidine	12.65	184	138928m	13.10	mg/l	
69) Pyrene	12.82	202	3760700	79.29	mg/l	99
71) Butyl Benzyl Phthalate	13.65	149	1710842	73.74	mg/l #	98
72) 3,3'-Dichlorobenzidine	14.54	252	1315483	137.58	mg/l	93
73) Benzo (a) Anthracene	14.58	228	3662252	79.53	mg/l #	92
74) Bis(2-Ethylhexyl) Phthalat	14.62	149	2265249	74.01	mg/l	99
75) Chrysene	14.68	228	3503032m	80.46	mg/l	
77) Di-n-Octyl Phthalate	15.85	149	4207355	74.38	mg/l #	100
78) Benzo (b) Fluoranthene	16.81	252	4087911	74.62	mg/l #	90
79) Benzo (k) Fluoranthene	16.87	252	3301966m	83.82	mg/l	
80) Benzo (a) Pyrene	17.54	252	3327929	75.90	mg/l #	90
81) Indeno (1,2,3-c,d) Pyrene	20.53	276	4025029m	81.14	mg/l	
82) Dibenz (a,h) Anthracene	20.56	278	3188546	75.81	mg/l #	84
83) Benzo (g,h,i) Perylene	21.33	276	3415690	79.88	mg/l	98

(#) = qualifier out of range (m) = manual integration

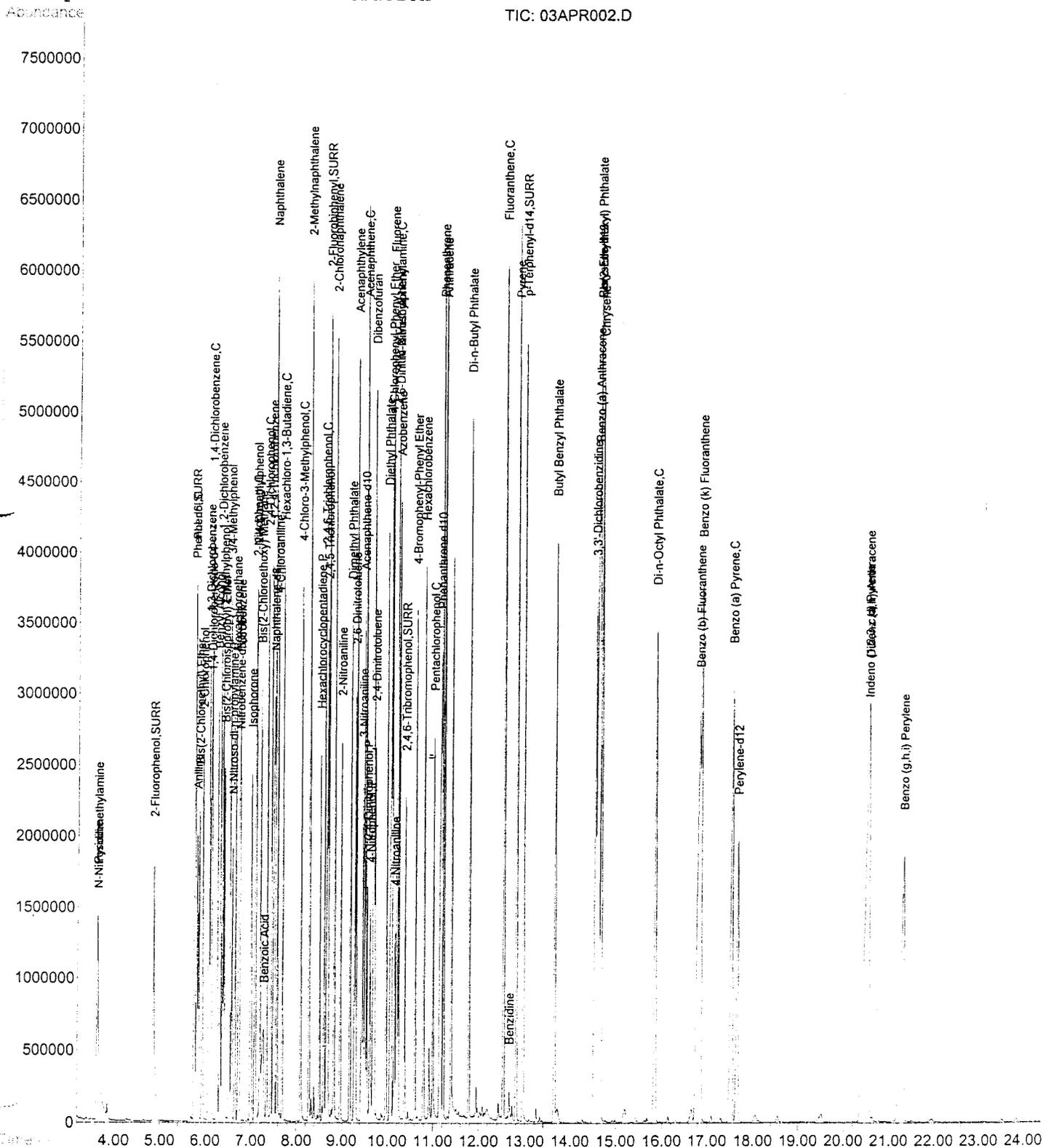
03APR002.D 000331.M Mon Apr 03 15:33:31 2000

Data File : C:\HPCHEM\1\DATA\000403\03APR002.D
Acq On : 3 Apr 2000 11:33 am
Sample : BNA-80 ICV S012800B
Misc :
MS Integration Params: rteint.p
Quant Time: Apr 3 15:33 2000

Vial: 2
Operator:
Inst : GC/MS J
Multiplr: 1.00

Quant Results File: 000331.RES

Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Mon Apr 03 15:17:42 2000
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\000403\03APR002.D Vial: 2
 Acq On : 3 Apr 2000 11:33 am Operator:
 Sample : BNA-80 ICV S012800B Inst : GC/MS J
 Misc : Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)
 Title : BNA 8270/625 CALIBRATION
 Last Update : Mon Apr 03 15:17:42 2000
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	0.00
2	Pyridine	0.903	0.896	0.8	103	-0.03
3	N-Nitrosodimethylamine	0.708	0.655	7.5	96	-0.02
4	SURR 2-Fluorophenol	1.273	1.285	-0.9	105	-0.02
5	Aniline	1.351	1.375	-1.8	99	0.00
6	SURR Phenol-d6	1.462	1.482	-1.4	106	-0.02
7	C Phenol	1.509	1.495	0.9#	101	-0.02
8	Bis(2-Chloroethyl) Ether	1.649	1.349	18.2	85	-0.01
9	2-Chlorophenol	1.344	1.381	-2.8	107	-0.01
10	1,3-Dichlorobenzene	1.375	1.464	-6.5	112	0.00
11	C 1,4-Dichlorobenzene	1.367	1.441	-5.4#	111	0.00
12	Benzyl Alcohol	0.810	0.963	-18.9	136	-0.02
13	1,2-Dichlorobenzene	1.307	1.382	-5.7	112	0.00
14	2-Methylphenol	1.181	1.075	9.0	92	-0.02
15	Bis(2-Chloroisopropyl) Ethe	1.143	1.356	-18.6	122	0.00
16	3/4-Methylphenol	1.353	1.438	-6.3	112	-0.02
17	P N-Nitroso-di-n-propylamine	0.669	0.656	1.9	101	-0.03
18	Hexachloroethane	0.506	0.543	-7.3	112	0.00
19	Naphthalene-d8	1.000	1.000	0.0	113	0.00
20	SURR Nitrobenzene-d5	0.325	0.329	-1.2	108	0.00
21	Nitrobenzene	0.304	0.320	-5.3	111	-0.01
22	Isophorone	0.580	0.597	-2.9	110	-0.02
23	C 2-Nitrophenol	0.198	0.196	1.0#	107	0.00
24	2,4-Dimethylphenol	0.299	0.262	12.4	96	-0.02
25	Benzoic Acid	0.217	0.193	11.1	100	-0.05
26	Bis(2-Chloroethoxy) Methane	0.377	0.350	7.2	100	-0.01
27	C 2,4-Dichlorophenol	0.279	0.283	-1.4#	109	-0.01
28	1,2,4-Trichlorobenzene	0.306	0.317	-3.6	112	0.00
29	Naphthalene	0.917	0.899	2.0	105	0.00
30	4-Chloroaniline	0.343	0.401	-16.9	110	-0.01
31	C Hexachloro-1,3-Butadiene	0.154	0.159	-3.2#	110	0.00
32	C 4-Chloro-3-Methylphenol	0.271	0.279	-3.0#	109	-0.01
33	2-Methylnaphthalene	0.619	0.640	-3.4	112	-0.01
34	1-Methylnaphthalene	0.579	0.001	99.8#	0#	-0.02
35	Acenaphthene-d10	1.000	1.000	0.0	113	0.00
36	P Hexachlorocyclopentadiene	0.234	0.228	2.6	96	0.00
37	C 2,4,6-Trichlorophenol	0.329	0.329	0.0	110	-0.01
38	2,4,5-Trichlorophenol	0.357	0.333	6.7	102	-0.01
39	2-Chloronaphthalene	0.970	0.989	-2.0	111	-0.01
40	SURR 2-Fluorobiphenyl	1.090	1.056	3.1	106	-0.01
41	2-Nitroaniline	0.262	0.280	-6.9	115	-0.01
42	Dimethyl Phthalate	1.111	1.009	9.2	99	-0.02
43	Acenaphthylene	1.502	1.474	1.9	106	0.00
44	3-Nitroaniline	0.204	0.317	-55.4#	213#	-0.02
45	C Acenaphthene	0.966	0.955	1.1#	107	-0.01
46	P 2,4-Dinitrophenol	0.183	0.186	-1.6	108	-0.02
47	P 4-Nitrophenol	0.229	0.237	-3.5	112	-0.02
48	Dibenzofuran	1.310	1.342	-2.4	111	-0.01

(#) = Out of Range

03APR002.D 000331.M Mon Apr 03 15:34:08 2000

Page 1

Data File : C:\HPCHEM\1\DATA\000403\03APR002.D

Vial: 2

Acq On : 3 Apr 2000 11:33 am

Operator:

Sample : BNA-80 ICV S012800B

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Mon Apr 03 15:17:42 2000

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
49	2,4-Dinitrotoluene	0.377	0.385	-2.1	111	-0.02
50	2,6-Dinitrotoluene	0.289	0.302	-4.5	112	-0.02
51	Diethyl Phthalate	1.049	0.959	8.6	98	-0.02
52	4-Chlorophenyl-Phenyl Ether	0.546	0.500	8.4	99	-0.01
53	Fluorene	1.092	1.067	2.3	106	-0.01
54	4-Nitroaniline	0.163	0.239	-46.6#	179#	-0.02
55	Phenanthrene-d10	1.000	1.000	0.0	113	0.00
56	Azobenzene	0.607	0.584	3.8	106	-0.01
57	4,6-Dinitro-2-Methylphenol	0.146	0.146	0.0	104	-0.03
58 C	N-Nitrosodiphenylamine	0.453	0.425	6.2#	107	-0.02
59 SURR	2,4,6-Tribromophenol	0.082	0.083	-1.2	111	-0.02
60	4-Bromophenyl-Phenyl Ether	0.189	0.170	10.1	97	-0.01
61	Hexachlorobenzene	0.192	0.196	-2.1	111	-0.01
62 C	Pentachlorophenol	0.117	0.126	-7.7#	112	0.00
63	Phenanthrene	0.947	0.920	2.9	107	-0.01
64	Anthracene	0.967	0.926	4.2	104	-0.02
65	Di-n-Butyl Phthalate	1.060	0.953	10.1	99	-0.01
66 C	Fluoranthene	1.038	1.014	2.3#	107	-0.02
	Benzidine	0.242	0.040	83.5#	18#	-0.02
68	Chrysene-d12	1.000	1.000	0.0	115	-0.02
69	Pyrene	1.241	1.230	0.9	109	-0.02
70 SURR	p-Terphenyl-d14	0.873	0.877	-0.5	111	-0.01
71	Butyl Benzyl Phthalate	0.607	0.559	7.9	100	-0.02
72	3,3'-Dichlorobenzidine	0.250	0.430	-72.0#	229#	-0.02
73	Benzo (a) Anthracene	1.205	1.198	0.6	107	-0.03
74	Bis(2-Ethylhexyl) Phthalate	0.801	0.741	7.5	100	-0.02
75	Chrysene	1.139	1.146	-0.6	109	-0.03
76	Perylene-d12	1.000	1.000	0.0	116	-0.04
77 C	Di-n-Octyl Phthalate	1.505	1.399	7.0#	102	-0.03
78	Benzo (b) Fluoranthene	1.457	1.359	6.7	110	-0.06
79	Benzo (k) Fluoranthene	1.048	1.098	-4.8	115	-0.05
80 C	Benzo (a) Pyrene	1.166	1.107	5.1#	104	-0.06
81	Indeno (1,2,3-c,d) Pyrene	1.320	1.338	-1.4	110	-0.09
82	Dibenz (a,h) Anthracene	1.119	1.060	5.3	103	-0.09
83	Benzo (g,h,i) Perylene	1.138	1.136	0.2	108	-0.12

(#)= Out of Range

SPCC's out = 0 CCC's out = 12

03APR002.D 000331.M

Mon Apr 03 15:34:14 2000

Page 2

Data File : C:\HPCHEM\1\DATA\000403\03APR003.D

Vial: 3

Acq On : 3 Apr 2000 12:08 pm

Operator:

Sample : BNA-5 S122899H

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 3 15:37 2000

Quant Results File: 000331.RES

Quant Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Mon Apr 03 15:17:42 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	6.10	152	431481	40.00	mg/l	-0.01
19) Naphthalene-d8	7.48	136	1513126	40.00	mg/l	-0.02
35) Acenaphthene-d10	9.47	164	911059	40.00	mg/l	-0.01
55) Phenanthrene-d10	11.14	188	1446027	40.00	mg/l	-0.02
68) Chrysene-d12	14.59	240	1379679	40.00	mg/l	-0.05
76) Perylene-d12	17.63	264	1202937	40.00	mg/l	-0.07

System Monitoring Compounds

4) 2-Fluorophenol	4.86	112	80327m	5.85	mg/l	-0.02
Spiked Amount 100.000			Recovery =	5.85%		
6) Phenol-d6	5.74	99	99900	6.34	mg/l	-0.03
Spiked Amount 100.000			Recovery =	6.34%		
20) Nitrobenzene-d5	6.71	82	80074	6.51	mg/l	-0.03
Spiked Amount 100.000			Recovery =	6.51%		
40) 2-Fluorobiphenyl	8.68	172	189624	7.64	mg/l	-0.02
Spiked Amount 100.000			Recovery =	7.64%		
59) 2,4,6-Tribromophenol	10.36	330	18350	6.21	mg/l	-0.03
Spiked Amount 100.000			Recovery =	6.21%		
70) p-Terphenyl-d14	12.95	244	199219	6.62	mg/l	-0.03
Spiked Amount 100.000			Recovery =	6.62%		

Target Compounds

						Qvalue
2) Pyridine	3.62	52	58546m	6.01	mg/ml	
3) N-Nitrosodimethylamine	3.63	74	42491	5.56	mg/l #	89
5) Aniline	5.80	93	88986m	6.11	mg/l	
7) Phenol	5.76	94	106153	6.52	mg/l	94
8) Bis(2-Chloroethyl) Ether	5.84	93	97567m	5.49	mg/l	
9) 2-Chlorophenol	5.93	128	87379	6.03	mg/l	94
10) 1,3-Dichlorobenzene	6.07	146	91255	6.15	mg/l #	90
11) 1,4-Dichlorobenzene	6.12	146	97628	6.62	mg/l #	90
12) Benzyl Alcohol	6.25	79	49002	5.61	mg/l #	81
13) 1,2-Dichlorobenzene	6.32	146	92559	6.57	mg/l #	87
14) 2-Methylphenol	6.37	108	76021m	5.97	mg/l	
15) Bis(2-Chloroisopropyl) Eth	6.40	45	87943	7.14	mg/l	93
16) 3/4-Methylphenol	6.52	107	74341	5.09	mg/l	96
17) N-Nitroso-di-n-propylamine	6.55	70	44591	6.18	mg/l	83
18) Hexachloroethane	6.65	117	34062	6.24	mg/l	84
21) Nitrobenzene	6.73	77	76491m	6.65	mg/l	
22) Isophorone	6.97	82	143044	6.52	mg/l	99
23) 2-Nitrophenol	7.08	139	46730	6.25	mg/l	94
24) 2,4-Dimethylphenol	7.09	107	72068	6.38	mg/l	97
25) Benzoic Acid	7.17	105	26364m	3.21	mg/l	
26) Bis(2-Chloroethoxy) Methan	7.19	93	93302	6.54	mg/l	99
27) 2,4-Dichlorophenol	7.34	162	66342	6.28	mg/l #	91
28) 1,2,4-Trichlorobenzene	7.43	180	77905	6.74	mg/l	100
29) Naphthalene	7.50	128	260269	7.51	mg/l #	95
30) 4-Chloroaniline	7.57	127	80603	6.22	mg/l #	92
31) Hexachloro-1,3-Butadiene	7.68	225	39026	6.68	mg/l #	75
32) 4-Chloro-3-Methylphenol	8.09	107	64901	6.33	mg/l	97
33) 2-Methylnaphthalene	8.27	142	166346	7.11	mg/l	98
34) 1-Methylnaphthalene	8.39	142	155449	7.10	mg/l	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\000403\03APR003.D

Vial: 3

Acq On : 3 Apr 2000 12:08 pm

Operator:

Sample : BNA-5 S122899H

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 3 15:37 2000

Quant Results File: 000331.RES

Quant Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Mon Apr 03 15:17:42 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Hexachlorocyclopentadiene	8.51	237	15224	2.86	mg/l #	100
37) 2,4,6-Trichlorophenol	8.60	196	45632	6.09	mg/l #	92
38) 2,4,5-Trichlorophenol	8.66	196	42975	5.28	mg/l	97
39) 2-Chloronaphthalene	8.81	162	158724	7.19	mg/l #	100
41) 2-Nitroaniline	8.95	65	36117	6.05	mg/l	96
42) Dimethyl Phthalate	9.16	163	176125	6.96	mg/l	100
43) Acenaphthylene	9.30	152	256122	7.49	mg/l	100
44) 3-Nitroaniline	9.42	138	35612	7.66	mg/l #	50
45) Acenaphthene	9.50	153	162577	7.39	mg/l	96
46) 2,4-Dinitrophenol	9.54	184	10294	2.46	mg/l #	68
47) 4-Nitrophenol	9.62	139	17094	3.27	mg/l	90
48) Dibenzofuran	9.67	168	207872	6.97	mg/l #	88
49) 2,4-Dinitrotoluene	9.70	165	52670	6.13	mg/l	97
50) 2,6-Dinitrotoluene	9.25	165	41591	6.32	mg/l	96
51) Diethyl Phthalate	9.95	149	170068	7.12	mg/l	100
52) 4-Chlorophenyl-Phenyl Ethe	10.04	204	88424	7.11	mg/l #	75
53) Fluorene	10.07	166	174874	7.03	mg/l	99
54) 4-Nitroaniline	10.12	138	31108	8.38	mg/l #	73
56) Azobenzene	10.22	77	146509	6.67	mg/l #	91
7) 4,6-Dinitro-2-Methylphenol	10.16	198	25409	4.80	mg/l	91
58) N-Nitrosodiphenylamine	10.18	169	126549	7.72	mg/l	97
60) 4-Bromophenyl-Phenyl Ether	10.60	248	46721	6.84	mg/l #	98
61) Hexachlorobenzene	10.78	284	47952	6.93	mg/l	94
62) Pentachlorophenol	10.99	266	16727	3.94	mg/l #	76
63) Phenanthrene	11.16	178	258584	7.55	mg/l	99
64) Anthracene	11.21	178	268079m	7.67	mg/l	
65) Di-n-Butyl Phthalate	11.78	149	300346	7.84	mg/l #	100
66) Fluoranthene	12.52	202	285890	7.62	mg/l #	100
67) Benzidine	12.65	184	25294m	2.89	mg/l	
69) Pyrene	12.79	202	290097	6.78	mg/l	100
71) Butyl Benzyl Phthalate	13.63	149	125088	5.97	mg/l #	98
72) 3,3'-Dichlorobenzidine	14.50	252	79268	9.19	mg/l	94
73) Benzo (a) Anthracene	14.55	228	259997	6.26	mg/l	99
74) Bis(2-Ethylhexyl) Phthalat	14.60	149	178225	6.45	mg/l #	86
75) Chrysene	14.63	228	244796m	6.23	mg/l	
77) Di-n-Octyl Phthalate	15.81	149	296807	6.56	mg/l	100
78) Benzo (b) Fluoranthene	16.73	252	243254m	5.55	mg/l	
79) Benzo (k) Fluoranthene	16.79	252	248600m	7.89	mg/l	
80) Benzo (a) Pyrene	17.48	252	223653	6.38	mg/l	97
81) Indeno (1,2,3-c,d) Pyrene	20.37	276	245401m	6.18	mg/l	
82) Dibenz (a,h) Anthracene	20.41	278	207532	6.17	mg/l #	84
83) Benzo (g,h,i) Perylene	21.17	276	208533m	6.10	mg/l	

(#) = qualifier out of range (m) = manual integration

03APR003.D 000331.M

Mon Apr 03 15:38:02 2000

Data File : C:\HPCHEM\1\DATA\000403\03APR003.D

Vial: 3

Acq On : 3 Apr 2000 12:08 pm

Operator:

Sample : BNA-5 S122899H

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 3 15:37 2000

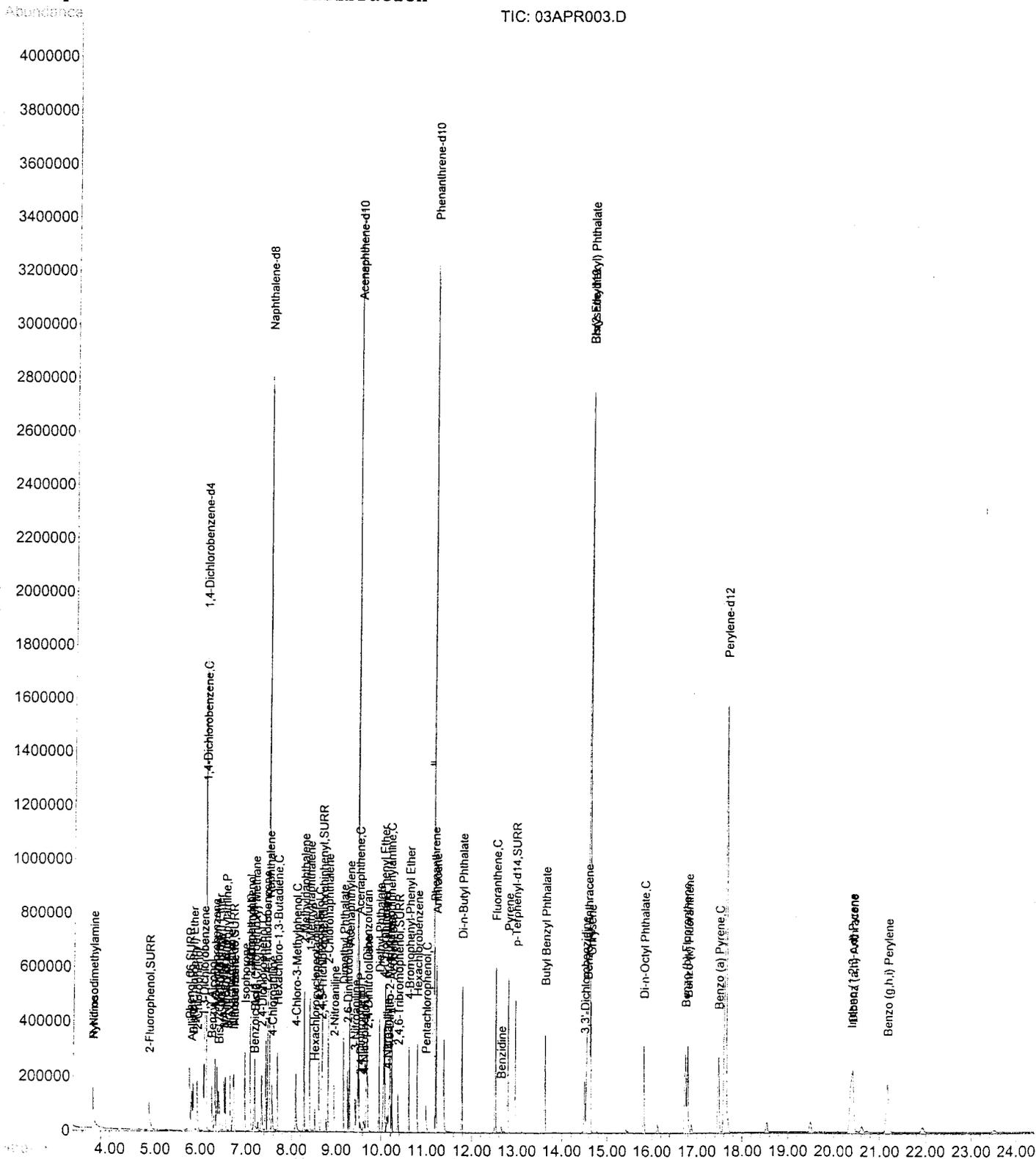
Quant Results File: 000331.RES

Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Mon Apr 03 15:17:42 2000

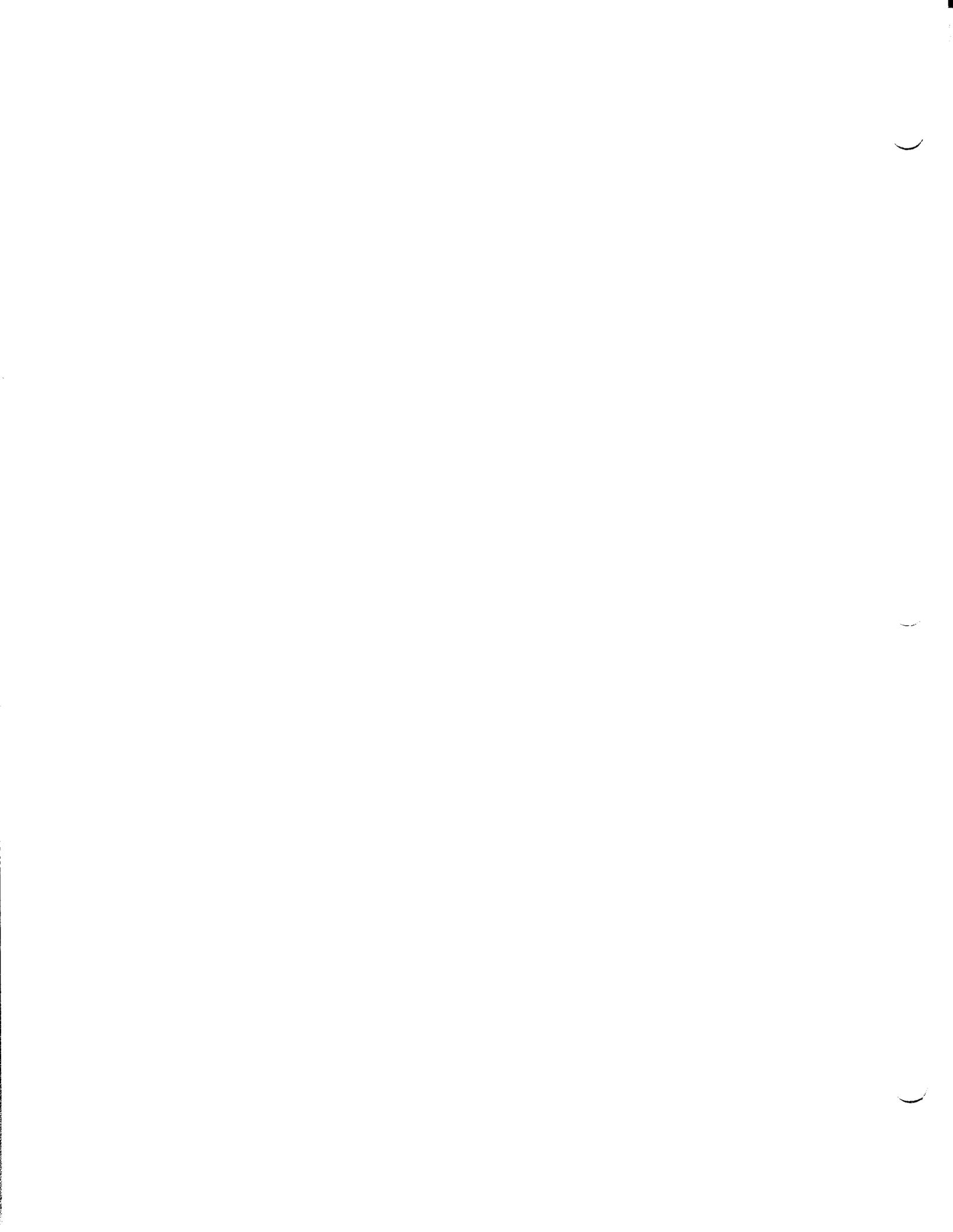
Response via : Initial Calibration





Continuing Calibration Raw Data

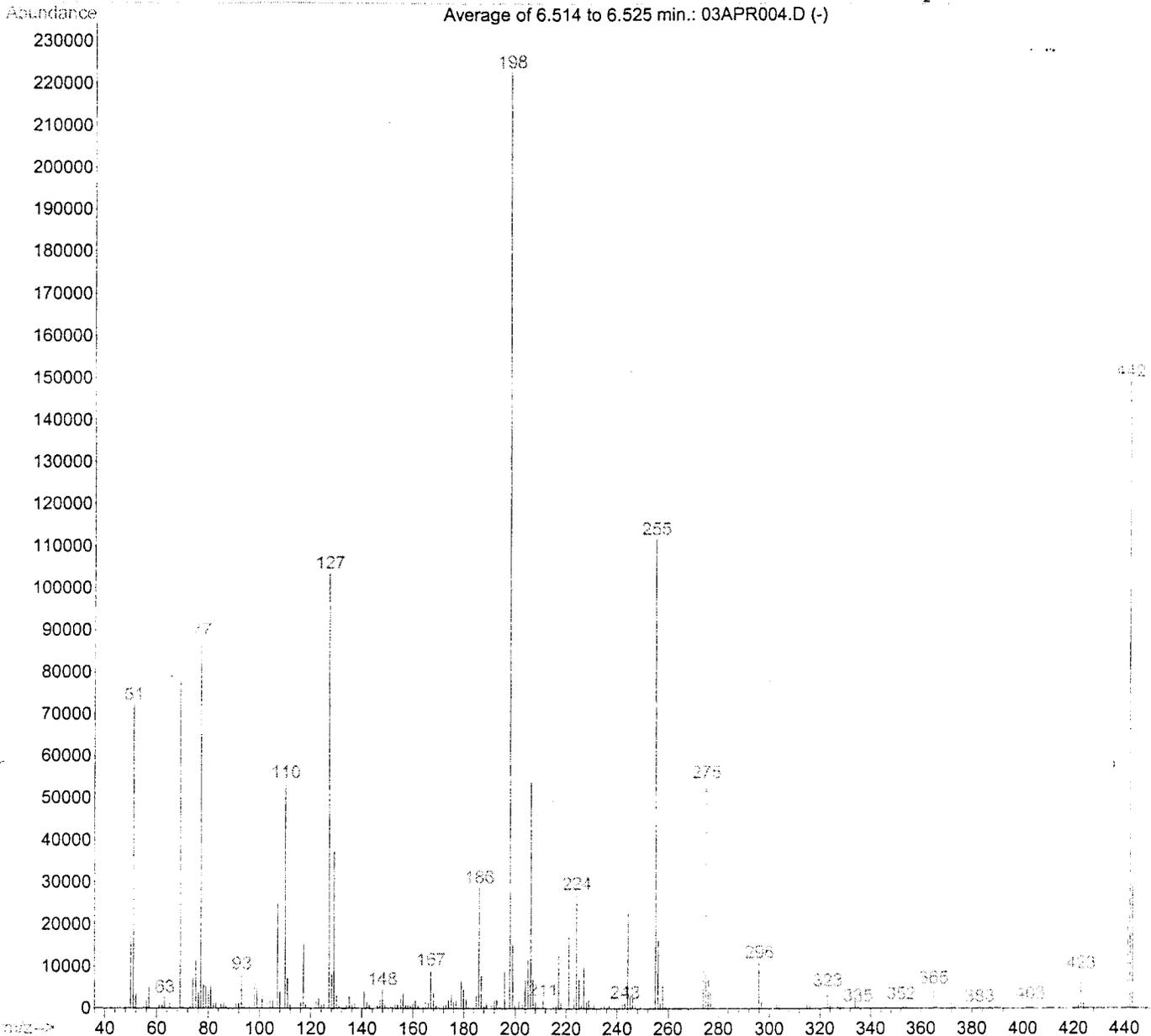
Geomatrix Consultants



DFTPP 625 Results

C:\HPCHEM\1\DATA\000403\03APR004.D

Mon Apr 03 14:27:02 2000



Peak Apex is scan: 630

Average of 3 scans: 629,630,631 minus background scan 622

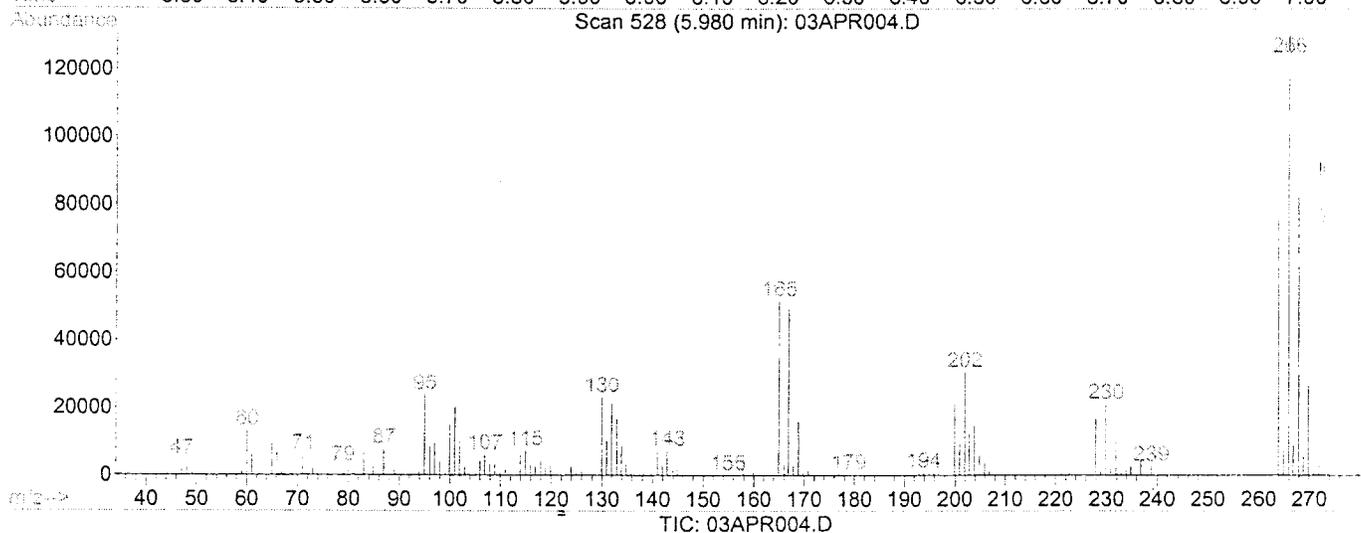
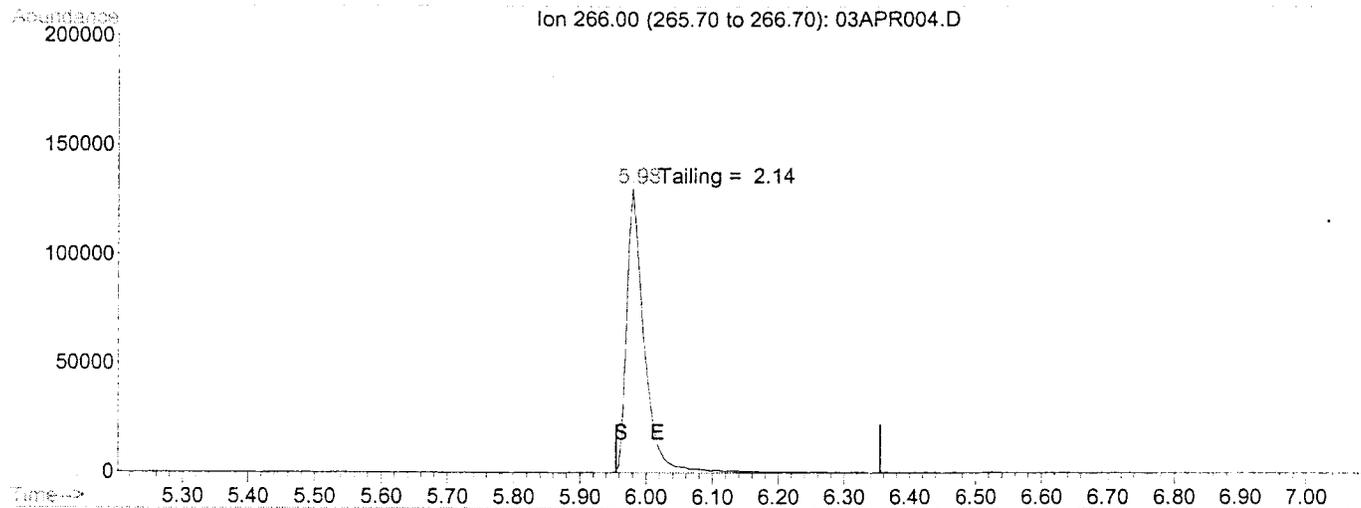
Target Mass	Comparison Mass	Lower Limit, %	Upper Limit, %	Relative Abundance, %	Result Pass/Fail
51	198	30	60	32.5	PASS
68	69	0	2	0.0	PASS
69	198	0	100	35.1	PASS
70	69	0	2	0.5	PASS
127	198	40	60	46.5	PASS
197	198	0	1	0.0	PASS
198	198	100	100	100.0	PASS
199	198	5	9	6.9	PASS
275	198	10	30	24.2	PASS
365	198	1	100	2.2	PASS
441	443	0	100	73.9	PASS
442	198	40	100	67.0	PASS
443	442	17	23	20.0	PASS

Data File : C:\HPCHEM\1\DATA\000403\03APR004.D
 Acq On : 3 Apr 2000 2:16 pm
 Sample : DFTPP S032000A
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 3 15:00 2000

Vial: 4
 Operator:
 Inst : GC/MS J
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : bbbbbb
 Last Update : Thu Feb 10 14:39:19 2000
 Response via : Single Level Calibration



(1) Pentachlorophenol

5.98min 0.00 m

response 235575

Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\000403\03APR004.D

Vial: 4

Acq On : 3 Apr 2000 2:16 pm

Operator:

Sample : DFTPP S032000A

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 3 15:00 2000

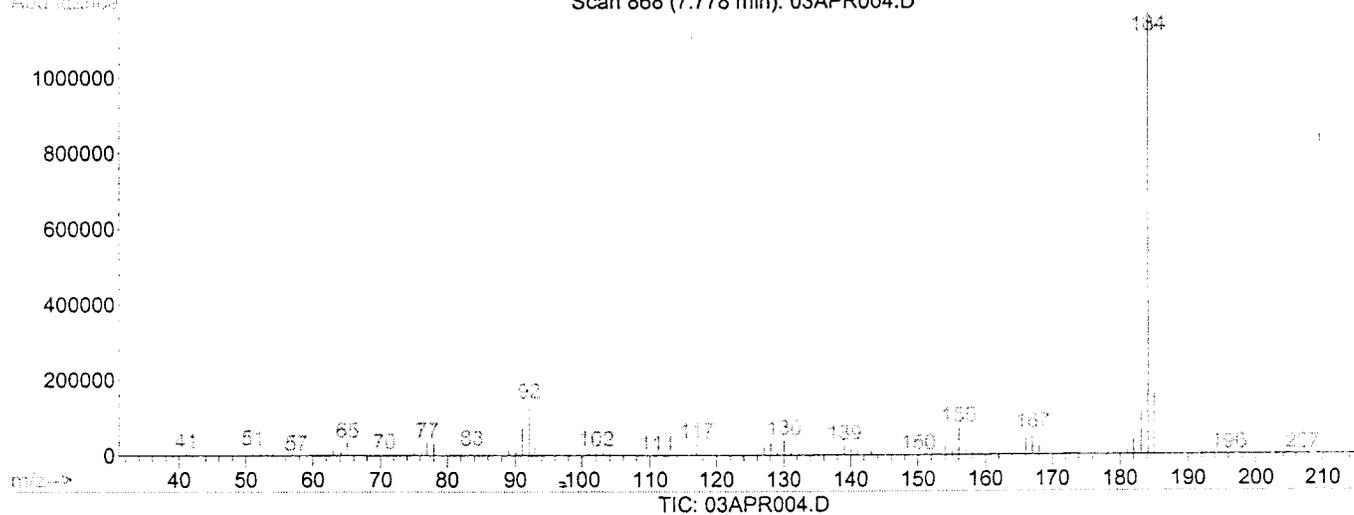
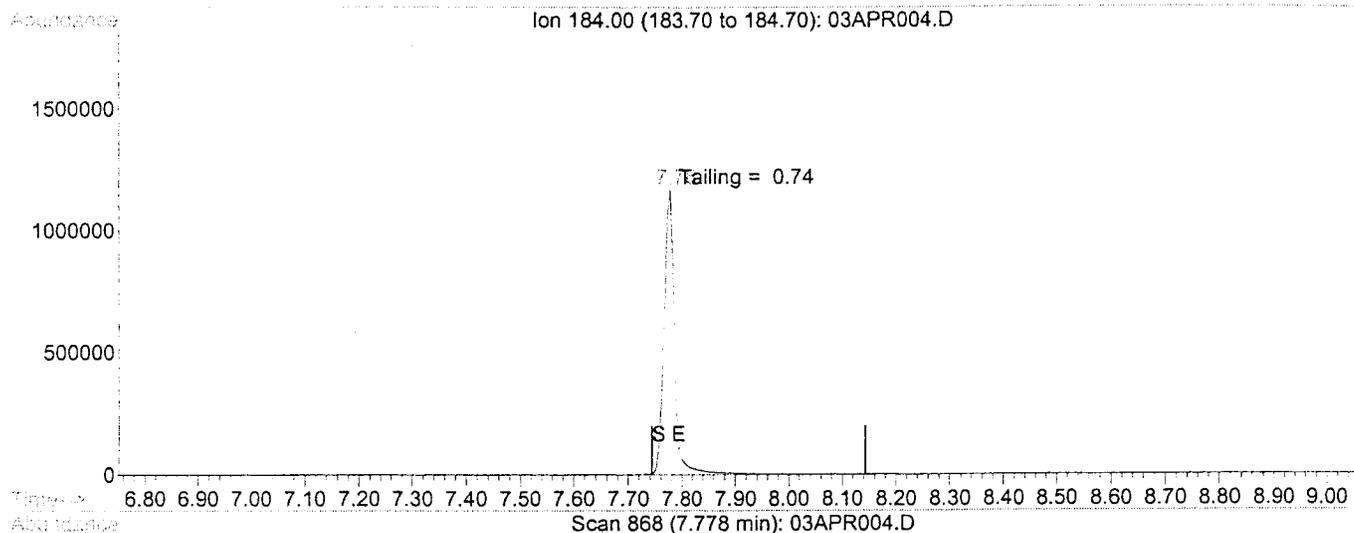
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)

Title : bbbbb

Last Update : Thu Feb 10 14:39:19 2000

Response via : Single Level Calibration



(3) Benzidine

7.78min 0.00

response 1583334

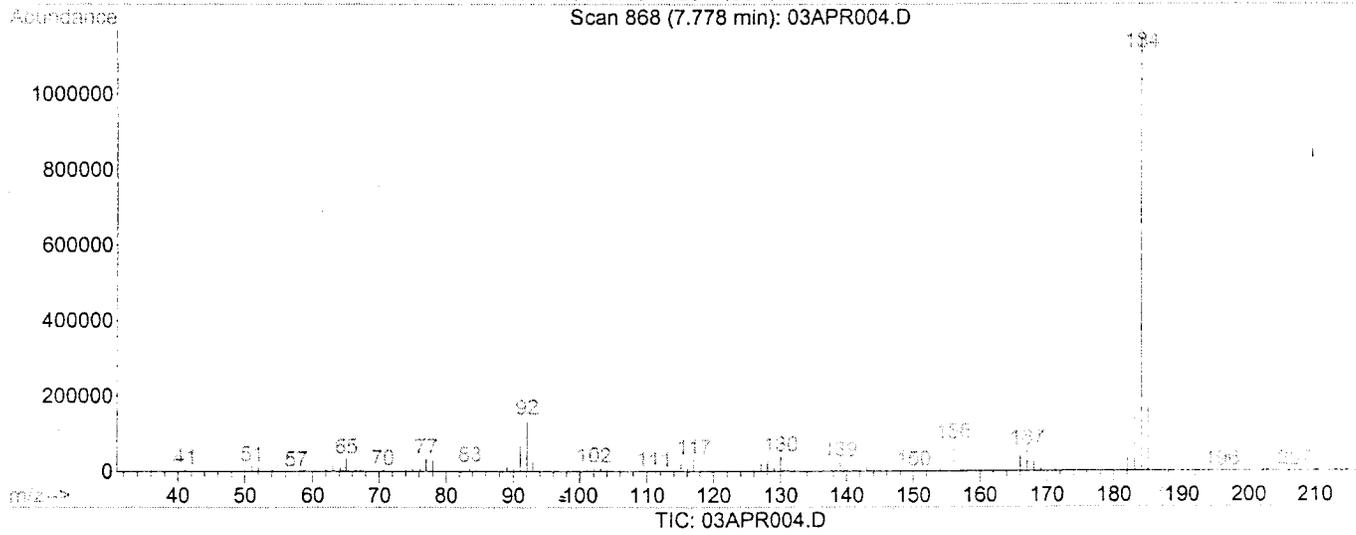
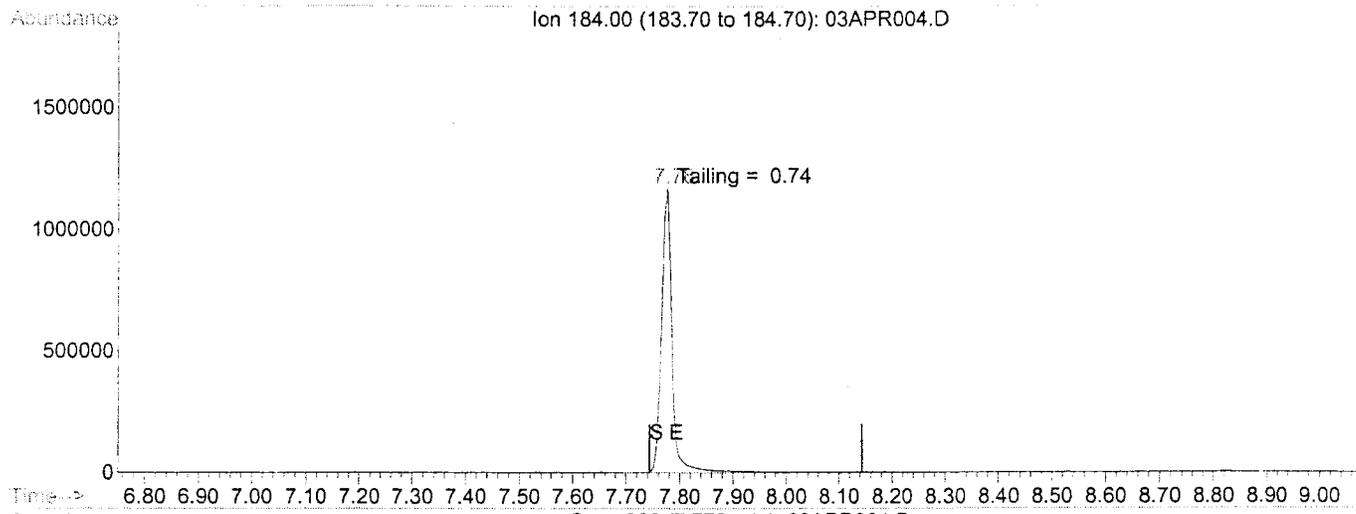
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\000403\03APR004.D
 Acq On : 3 Apr 2000 2:16 pm
 Sample : DFTPP S032000A
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 3 15:00 2000

Vial: 4
 Operator:
 Inst : GC/MS J
 Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : bbbbbb
 Last Update : Thu Feb 10 14:39:19 2000
 Response via : Single Level Calibration



(3) Benzidine

7.78min 0.00

response 1583334

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

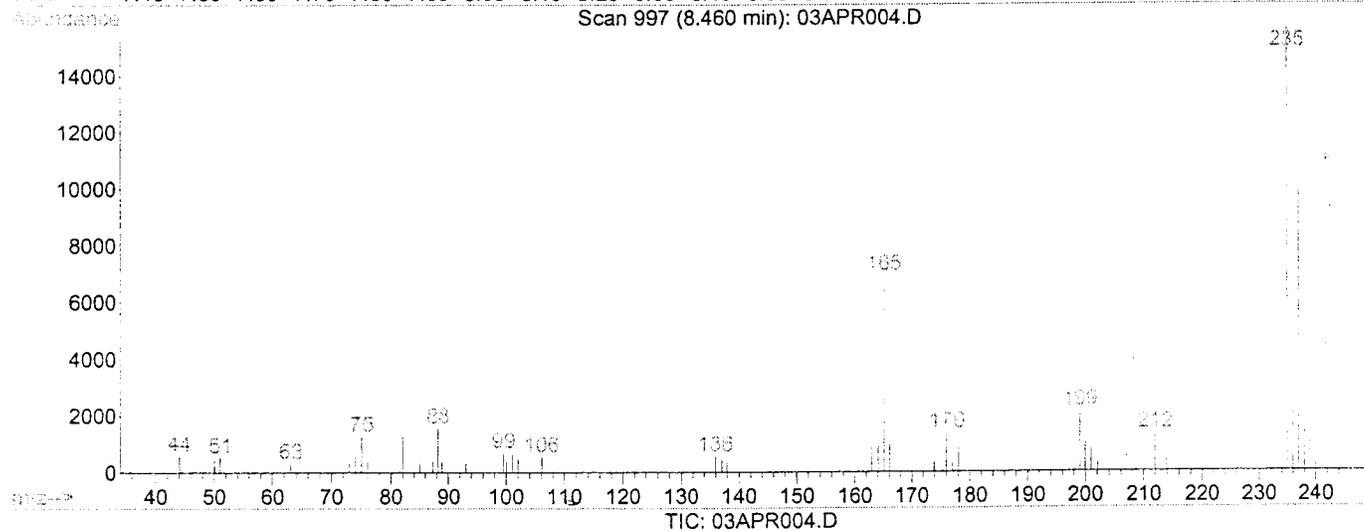
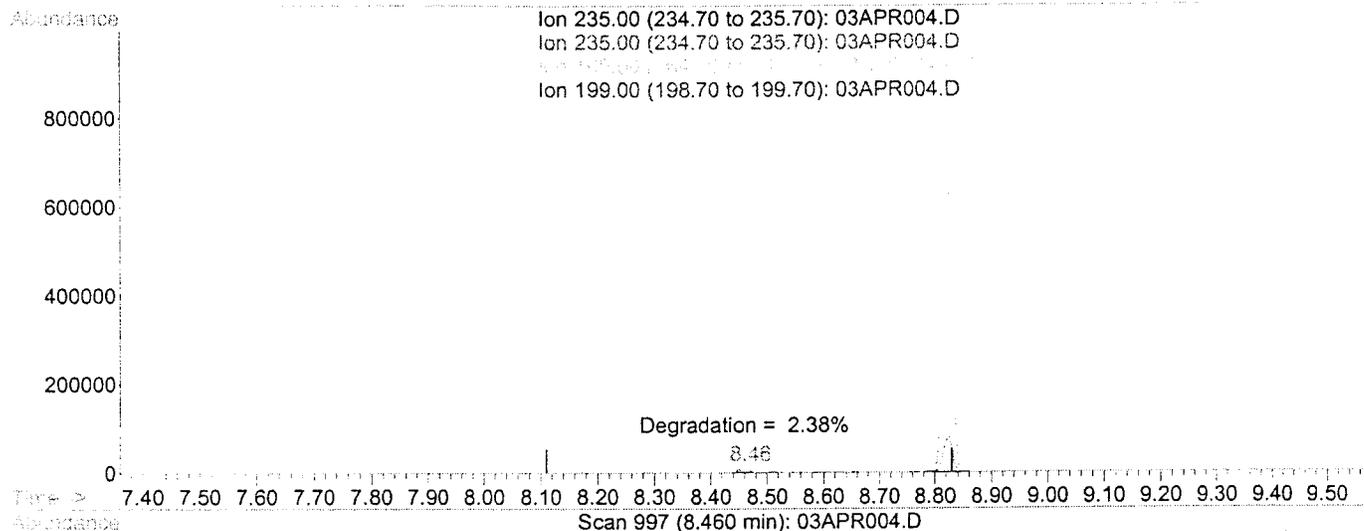
Data File : C:\HPCHEM\1\DATA\000403\03APR004.D
 Acq On : 3 Apr 2000 2:16 pm
 Sample : DFTPP S032000A
 Misc :

Vial: 4
 Operator:
 Inst : GC/MS J
 Multiplr: 1.00

MS Integration Params: rteint.p
 Quant Time: Apr 3 15:02 2000

Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : bbbbbb
 Last Update : Thu Feb 10 14:39:19 2000
 Response via : Single Level Calibration



(5) DDD

8.46min 0.00 m

response 16399

Ion	Exp%	Act%
235.00	100	100
235.00	100.00	0.00#
165.00	60.00	0.00#
199.00	13.00	0.00#

Data File : C:\HPCHEM\1\DATA\000403\03APR004.D

Vial: 4

Acq On : 3 Apr 2000 2:16 pm

Operator:

Sample : DFTPP S032000A

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 3 15:02 2000

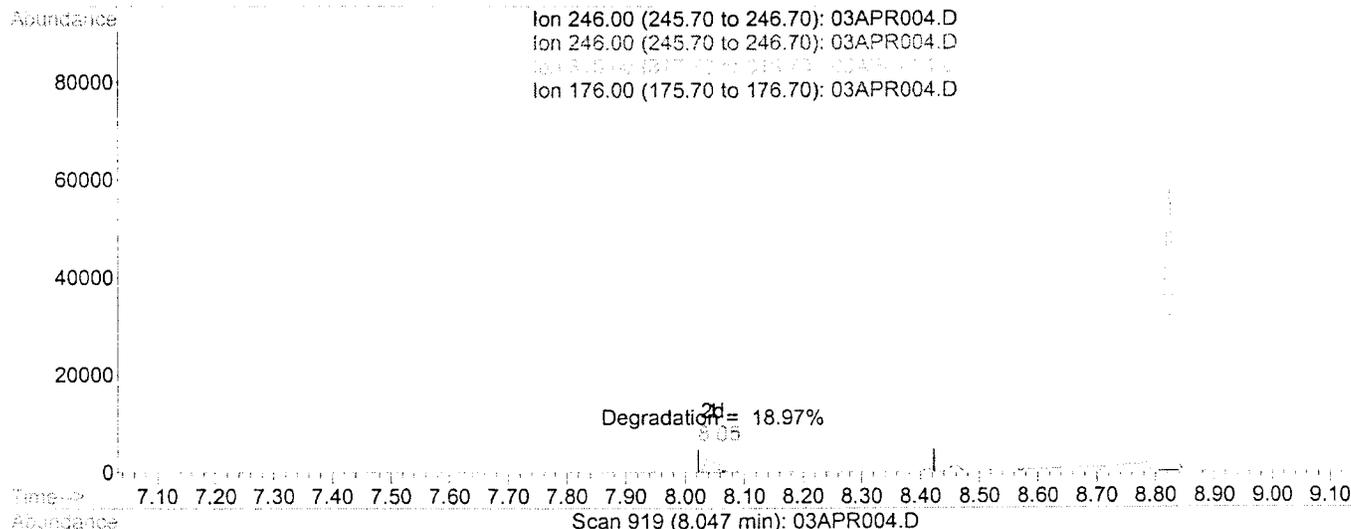
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)

Title : bbbbb

Last Update : Thu Feb 10 14:39:19 2000

Response via : Single Level Calibration



(6) DDE

8.05min 0.00

response 6350

Ion	Exp%	Act%
246.00	100	100
246.00	70.00	100.00#
318.00	65.00	51.57#
176.00	60.00	0.00#

Data File : C:\HPCHEM\1\DATA\000403\03APR005.D
 Acq On : 3 Apr 2000 2:35 pm
 Sample : BNA-80 S033000D
 Misc :

Vial: 5
 Operator:
 Inst : GC/MS J
 Multiplr: 1.00

MS Integration Params: rteint.p
 Start Time: Apr 3 15:42 2000

Quant Results File: 000331.RES

Quant Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)
 Title : BNA 8270/625 CALIBRATION
 Last Update : Mon Apr 03 15:17:42 2000
 Response via : Initial Calibration
 DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	6.10	152	423200	40.00	mg/l	-0.01
19) Naphthalene-d8	7.49	136	1621236	40.00	mg/l	-0.01
35) Acenaphthene-d10	9.47	164	955407	40.00	mg/l	-0.01
55) Phenanthrene-d10	11.14	188	1564274	40.00	mg/l	-0.01
68) Chrysene-d12	14.61	240	1334568	40.00	mg/l	-0.03
76) Perylene-d12	17.65	264	1329578	40.00	mg/l	-0.05

System Monitoring Compounds

4) 2-Fluorophenol	4.86	112	1204192	89.40	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	89.40%	
6) Phenol-d6	5.75	99	1358474	87.84	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	87.84%	
20) Nitrobenzene-d5	6.73	82	1103204	83.66	mg/l	-0.01
Spiked Amount	100.000		Recovery	=	83.66%	
40) 2-Fluorobiphenyl	8.69	172	2261693	86.85	mg/l	-0.01
Spiked Amount	100.000		Recovery	=	86.85%	
59) 2,4,6-Tribromophenol	10.37	330	292694	91.51	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	91.51%	
70) p-Terphenyl-d14	12.96	244	2611655	89.69	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	89.69%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Pyridine	3.62	52	836986m	87.62	mg/ml	
3) N-Nitrosodimethylamine	3.63	74	610171	81.41	mg/l #	88
5) Aniline	5.81	93	1337064m	93.56	mg/l	
7) Phenol	5.76	94	1441373	90.26	mg/l	98
8) Bis(2-Chloroethyl) Ether	5.85	93	1544961m	88.55	mg/l	
9) 2-Chlorophenol	5.93	128	1249439	87.88	mg/l #	78
10) 1,3-Dichlorobenzene	6.07	146	1259881	86.61	mg/l #	90
11) 1,4-Dichlorobenzene	6.12	146	1279523	88.48	mg/l #	90
12) Benzyl Alcohol	6.26	79	837808	97.73	mg/l #	80
13) 1,2-Dichlorobenzene	6.32	146	1217279	88.06	mg/l #	87
14) 2-Methylphenol	6.37	108	1082082m	86.60	mg/l	
15) Bis(2-Chloroisopropyl) Eth	6.41	45	1183404	97.89	mg/l	93
16) 3/4-Methylphenol	6.53	107	1247658	87.15	mg/l #	95
17) N-Nitroso-di-n-propylamine	6.58	70	627125	88.56	mg/l	82
18) Hexachloroethane	6.65	117	471483	88.04	mg/l	83
21) Nitrobenzene	6.75	77	1028301	83.40	mg/l #	96
22) Isophorone	7.00	82	1992429	84.80	mg/l	99
23) 2-Nitrophenol	7.09	139	672150	83.90	mg/l	94
24) 2,4-Dimethylphenol	7.10	107	1028905	84.99	mg/l #	81
25) Benzoic Acid	7.29	105	735586	83.71	mg/l	96
26) Bis(2-Chloroethoxy) Methan	7.20	93	1278671	83.68	mg/l #	96
27) 2,4-Dichlorophenol	7.34	162	960395	84.88	mg/l #	91
28) 1,2,4-Trichlorobenzene	7.43	180	1048561	84.62	mg/l	100
29) Naphthalene	7.51	128	3121743	84.02	mg/l #	95
30) 4-Chloroaniline	7.57	127	1364776	98.31	mg/l #	94
31) Hexachloro-1,3-Butadiene	7.69	225	530135	84.71	mg/l #	76
2) 4-Chloro-3-Methylphenol	8.09	107	933714	84.94	mg/l	99
-33) 2-Methylnaphthalene	8.27	142	2119385	84.52	mg/l	98
34) 1-Methylnaphthalene	8.40	142	1996069	85.09	mg/l	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\000403\03APR005.D

Vial: 5

Acq On : 3 Apr 2000 2:35 pm

Operator:

Sample : BNA-80 S033000D

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 3 15:42 2000

Quant Results File: 000331.RES

Quant Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Mon Apr 03 15:17:42 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Hexachlorocyclopentadiene	8.51	237	509277	91.22	mg/l #	100
37) 2,4,6-Trichlorophenol	8.61	196	676789	86.08	mg/l	98
38) 2,4,5-Trichlorophenol	8.66	196	778160m	91.21	mg/l	
39) 2-Chloronaphthalene	8.83	162	2027514	87.55	mg/l #	100
41) 2-Nitroaniline	8.97	65	559845	89.36	mg/l #	77
42) Dimethyl Phthalate	9.18	163	2352508	88.64	mg/l	100
43) Acenaphthylene	9.31	152	3107733	86.64	mg/l #	100
44) 3-Nitroaniline	9.45	138	504522	103.43	mg/l #	50
45) Acenaphthene	9.51	153	2044343	88.59	mg/l #	86
46) 2,4-Dinitrophenol	9.55	184	387188	88.38	mg/l	93
47) 4-Nitrophenol	9.62	139	500010	91.23	mg/l	95
48) Dibenzofuran	9.69	168	2711348	86.66	mg/l #	88
49) 2,4-Dinitrotoluene	9.72	165	801517	88.93	mg/l	96
50) 2,6-Dinitrotoluene	9.27	165	612084	88.67	mg/l	97
51) Diethyl Phthalate	9.97	149	2253456	89.92	mg/l	99
52) 4-Chlorophenyl-Phenyl Ethe	10.06	204	1168223	89.62	mg/l #	75
53) Fluorene	10.08	166	2296733	88.08	mg/l #	58
54) 4-Nitroaniline	10.15	138	285313m	73.31	mg/l	
56) Azobenzene	10.24	77	2007616	84.53	mg/l	96
57) 4,6-Dinitro-2-Methylphenol	10.19	198	531108	92.79	mg/l #	80
58) N-Nitrosodiphenylamine	10.20	169	1495205	84.31	mg/l	96
60) 4-Bromophenyl-Phenyl Ether	10.60	248	647364	87.58	mg/l #	98
61) Hexachlorobenzene	10.79	284	659720	88.08	mg/l #	78
62) Pentachlorophenol	10.99	266	428656	93.37	mg/l	98
63) Phenanthrene	11.18	178	3170367	85.59	mg/l #	94
64) Anthracene	11.23	178	3290364	87.02	mg/l #	95
65) Di-n-Butyl Phthalate	11.79	149	3614660	87.21	mg/l	100
66) Fluoranthene	12.53	202	3572526	87.97	mg/l #	99
67) Benzidine	12.65	184	927365	98.02	mg/l #	96
69) Pyrene	12.81	202	3698989	89.35	mg/l #	99
71) Butyl Benzyl Phthalate	13.65	149	1823256	90.03	mg/l #	98
72) 3,3'-Dichlorobenzidine	14.53	252	784787	94.03	mg/l	97
73) Benzo (a) Anthracene	14.58	228	3668804	91.27	mg/l	99
74) Bis(2-Ethylhexyl) Phthalat	14.61	149	2484430	92.99	mg/l	99
75) Chrysene	14.67	228	3463061m	91.13	mg/l	
77) Di-n-Octyl Phthalate	15.84	149	4466311	89.29	mg/l #	100
78) Benzo (b) Fluoranthene	16.81	252	4394845	90.73	mg/l #	91
79) Benzo (k) Fluoranthene	16.85	252	3151224m	90.47	mg/l	
80) Benzo (a) Pyrene	17.54	252	3497737	90.22	mg/l #	90
81) Indeno (1,2,3-c,d) Pyrene	20.52	276	3972742m	90.57	mg/l	
82) Dibenz (a,h) Anthracene	20.55	278	3366644	90.53	mg/l #	84
83) Benzo (g,h,i) Perylene	21.32	276	3407078	90.11	mg/l #	90

(#) = qualifier out of range (m) = manual integration

03APR005.D 000331.M

Mon Apr 03 15:42:46 2000

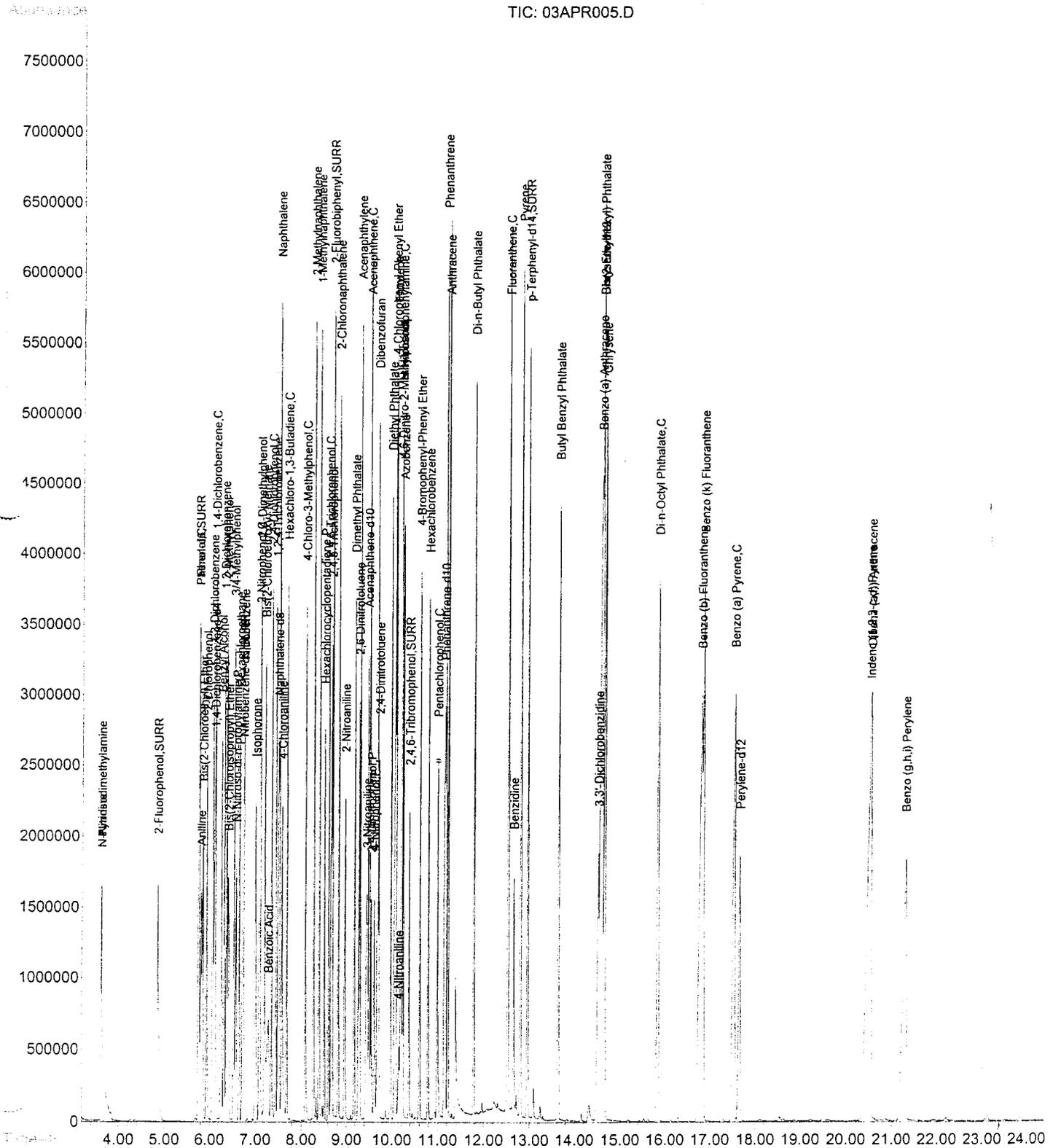
Page 2

Data File : C:\HPCHEM\1\DATA\000403\03APR005.D
 Acq On : 3 Apr 2000 2:35 pm
 Sample : BNA-80 S033000D
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 3 15:42 2000

Vial: 5
 Operator:
 Inst : GC/MS J
 Multiplr: 1.00

Quant Results File: 000331.RES

Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)
 Title : BNA 8270/625 CALIBRATION
 Last Update : Mon Apr 03 15:17:42 2000
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\000403\03APR005.D

Vial: 5

Acq On : 3 Apr 2000 2:35 pm

Operator:

Sample : BNA-80 S033000D

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Mon Apr 03 15:17:42 2000

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
1	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	-0.01
2	Pyridine	0.903	0.989	-9.5	102	-0.04
3	N-Nitrosodimethylamine	0.708	0.721	-1.8	95	-0.04
4	SURR 2-Fluorophenol	1.273	1.423	-11.8	105	-0.02
5	Aniline	1.351	1.580	-17.0	103	0.00
6	SURR Phenol-d6	1.462	1.605	-9.8	104	-0.02
7	C Phenol	1.509	1.703	-12.9#	103	-0.02
8	Bis(2-Chloroethyl) Ether	1.649	1.825	-10.7	104	-0.02
9	2-Chlorophenol	1.344	1.476	-9.8	103	-0.02
10	1,3-Dichlorobenzene	1.375	1.489	-8.3	103	-0.01
11	C 1,4-Dichlorobenzene	1.367	1.512	-10.6#	104	-0.01
12	Benzyl Alcohol	0.810	0.990	-22.2	126	-0.03
13	1,2-Dichlorobenzene	1.307	1.438	-10.0	105	0.00
14	2-Methylphenol	1.181	1.278	-8.2	98	-0.02
15	Bis(2-Chloroisopropyl) Ethe	1.143	1.398	-22.3	114	-0.01
16	3/4-Methylphenol	1.353	1.474	-8.9	103	-0.02
17	P N-Nitroso-di-n-propylamine	0.669	0.741	-10.8	103	-0.03
18	Hexachloroethane	0.506	0.557	-10.1	103	0.00
19	Naphthalene-d8	1.000	1.000	0.0	104	-0.01
20	SURR Nitrobenzene-d5	0.325	0.340	-4.6	103	-0.01
21	Nitrobenzene	0.304	0.317	-4.3	102	-0.02
22	Isophorone	0.580	0.614	-5.9	105	-0.03
23	C 2-Nitrophenol	0.198	0.207	-4.5#	105	-0.01
24	2,4-Dimethylphenol	0.299	0.317	-6.0	107	-0.02
25	Benzoic Acid	0.217	0.227	-4.6	109	-0.05
26	Bis(2-Chloroethoxy) Methane	0.377	0.394	-4.5	104	-0.02
27	C 2,4-Dichlorophenol	0.279	0.296	-6.1#	105	-0.02
28	1,2,4-Trichlorobenzene	0.306	0.323	-5.6	106	-0.01
29	Naphthalene	0.917	0.963	-5.0	104	-0.01
30	4-Chloroaniline	0.343	0.421	-22.7	107	-0.02
31	C Hexachloro-1,3-Butadiene	0.154	0.163	-5.8#	105	-0.01
32	C 4-Chloro-3-Methylphenol	0.271	0.288	-6.3#	103	-0.01
33	2-Methylnaphthalene	0.619	0.654	-5.7	105	-0.01
34	1-Methylnaphthalene	0.579	0.616	-6.4	106	-0.01
35	Acenaphthene-d10	1.000	1.000	0.0	99	-0.01
36	P Hexachlorocyclopentadiene	0.234	0.267	-14.1	100	0.00
37	C 2,4,6-Trichlorophenol	0.329	0.354	-7.6#	105	-0.02
38	2,4,5-Trichlorophenol	0.357	0.407	-14.0	110	-0.01
39	2-Chloronaphthalene	0.970	1.061	-9.4	105	-0.02
40	SURR 2-Fluorobiphenyl	1.090	1.184	-8.6	105	-0.01
41	2-Nitroaniline	0.262	0.293	-11.8	106	-0.02
42	Dimethyl Phthalate	1.111	1.231	-10.8	107	-0.02
43	Acenaphthylene	1.502	1.626	-8.3	104	-0.01
44	3-Nitroaniline	0.204	0.264	-29.4#	157#	-0.02
45	C Acenaphthene	0.966	1.070	-10.8#	106	-0.02
46	P 2,4-Dinitrophenol	0.183	0.203	-10.9	104	-0.02
47	P 4-Nitrophenol	0.229	0.262	-14.4	110	-0.03
48	Dibenzofuran	1.310	1.419	-8.3	104	-0.02

(#)= Out of Range

03APR005.D 000331.M

Mon Apr 03 15:43:28 2000

Data File : C:\HPCHEM\1\DATA\000403\03APR005.D

Vial: 5

Acq On : 3 Apr 2000 2:35 pm

Operator:

Sample : BNA-80 S033000D

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Mon Apr 03 15:17:42 2000

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	2,4-Dinitrotoluene	0.377	0.419	-11.1	106	-0.02
50	2,6-Dinitrotoluene	0.289	0.320	-10.7	105	-0.02
51	Diethyl Phthalate	1.049	1.179	-12.4	107	-0.02
52	4-Chlorophenyl-Phenyl Ether	0.546	0.611	-11.9	107	-0.02
53	Fluorene	1.092	1.202	-10.1	105	-0.02
54	4-Nitroaniline	0.163	0.149	8.6	98	-0.03
55	Phenanthrene-d10	1.000	1.000	0.0	101	-0.01
56	Azobenzene	0.607	0.642	-5.8	104	-0.02
57	4,6-Dinitro-2-Methylphenol	0.146	0.170	-16.4	107	-0.03
58 C	N-Nitrosodiphenylamine	0.453	0.478	-5.5#	107	-0.03
59 SURR	2,4,6-Tribromophenol	0.082	0.094	-14.6	112	-0.02
60	4-Bromophenyl-Phenyl Ether	0.189	0.207	-9.5	106	-0.02
61	Hexachlorobenzene	0.192	0.211	-9.9	106	-0.02
62 C	Pentachlorophenol	0.117	0.137	-17.1#	108	-0.01
63	Phenanthrene	0.947	1.013	-7.0	105	-0.02
64	Anthracene	0.967	1.052	-8.8	105	-0.02
65	Di-n-Butyl Phthalate	1.060	1.155	-9.0	107	-0.01
66 C	Fluoranthene	1.038	1.142	-10.0#	108	-0.02
67	Benzidine	0.242	0.296	-22.3	121	-0.02
68	Chrysene-d12	1.000	1.000	0.0	100	-0.03
69	Pyrene	1.241	1.386	-11.7	107	-0.02
70 SURR	p-Terphenyl-d14	0.873	0.978	-12.0	108	-0.02
71	Butyl Benzyl Phthalate	0.607	0.683	-12.5	107	-0.02
72	3,3'-Dichlorobenzidine	0.250	0.294	-17.6	137	-0.04
73	Benzo (a) Anthracene	1.205	1.375	-14.1	107	-0.03
74	Bis(2-Ethylhexyl) Phthalate	0.801	0.931	-16.2	110	-0.03
75	Chrysene	1.139	1.297	-13.9	108	-0.04
76	Perylene-d12	1.000	1.000	0.0	102	-0.05
77 C	Di-n-Octyl Phthalate	1.505	1.680	-11.6#	108	-0.03
78	Benzo (b) Fluoranthene	1.457	1.653	-13.5	119	-0.07
79	Benzo (k) Fluoranthene	1.048	1.185	-13.1	110	-0.07
80 C	Benzo (a) Pyrene	1.166	1.315	-12.8#	109	-0.07
81	Indeno (1,2,3-c,d) Pyrene	1.320	1.494	-13.2	109	-0.11
82	Dibenz (a,h) Anthracene	1.119	1.266	-13.1	109	-0.10
83	Benzo (g,h,i) Perylene	1.138	1.281	-12.6	108	-0.13

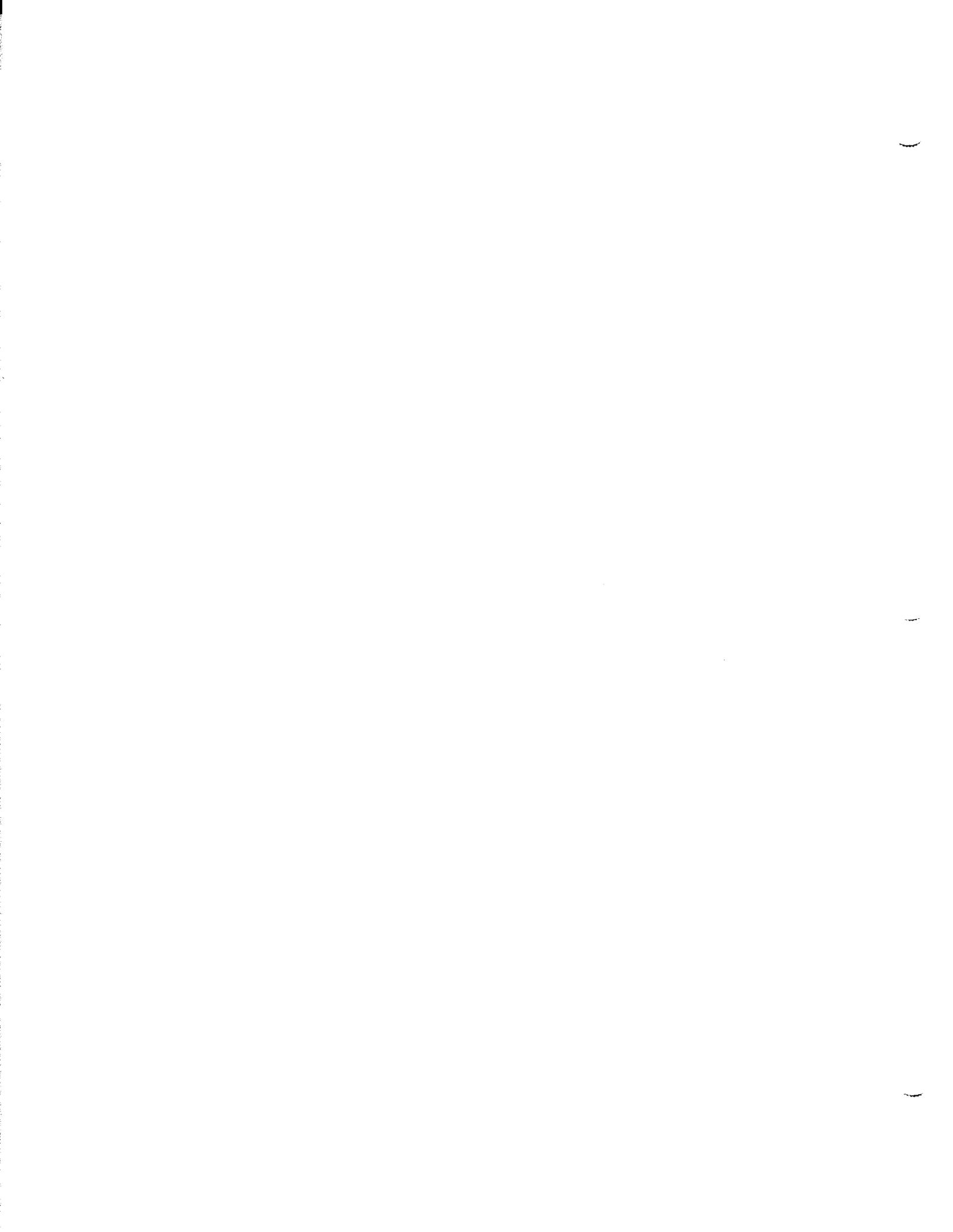
(#) = Out of Range

SPCC's out = 0 CCC's out = 13

03APR005.D 000331.M

Mon Apr 03 15:43:34 2000

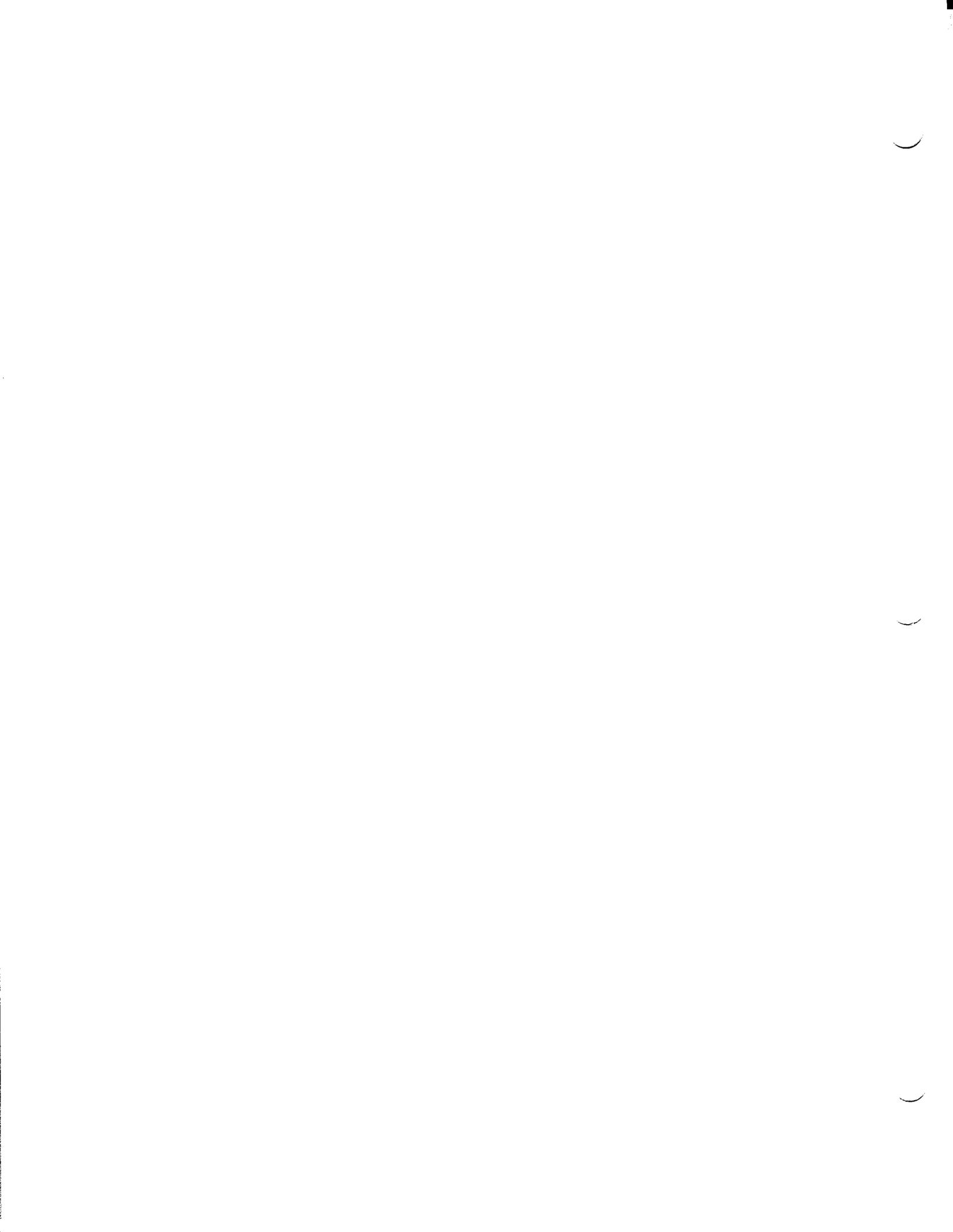
Page 2





Instrument Run Log

Geomatrix Consultants



INSTRUMENT LOGBOOK

Calscience Environmental Laboratories, Inc.

Date Loaded	Pos	Directory	Data File	CEL ID #	Mtx Loaded	Amount pH Loaded <2	IS/SS	Lot #	Cal. Std.	By	Comments
3/28/00	2	000328	28MAR002	BNA-80	N/A	1 ml	N/A	S030300D		LL	
	3			3-944-54							
	4			-55							
	5			-56							
	6			-56 MS							
	7			-56 MSD							
	8			3-947-1							
	9			-2							
	10			-3							
	11			-4							
	12			-5							
	13			-6							
	14			-7							
	15			-8							
	16			-9							
	17			-9 MS							
	18			-9 MSD							
	1			DETPP							
	2			BNA-80							
								S032000A			
								S030300D			
3/31/00	1	000331	31MAR001	DETPP	N/A	1 ml	N/A	S032000A			

INSTRUMENT LOGBOOK

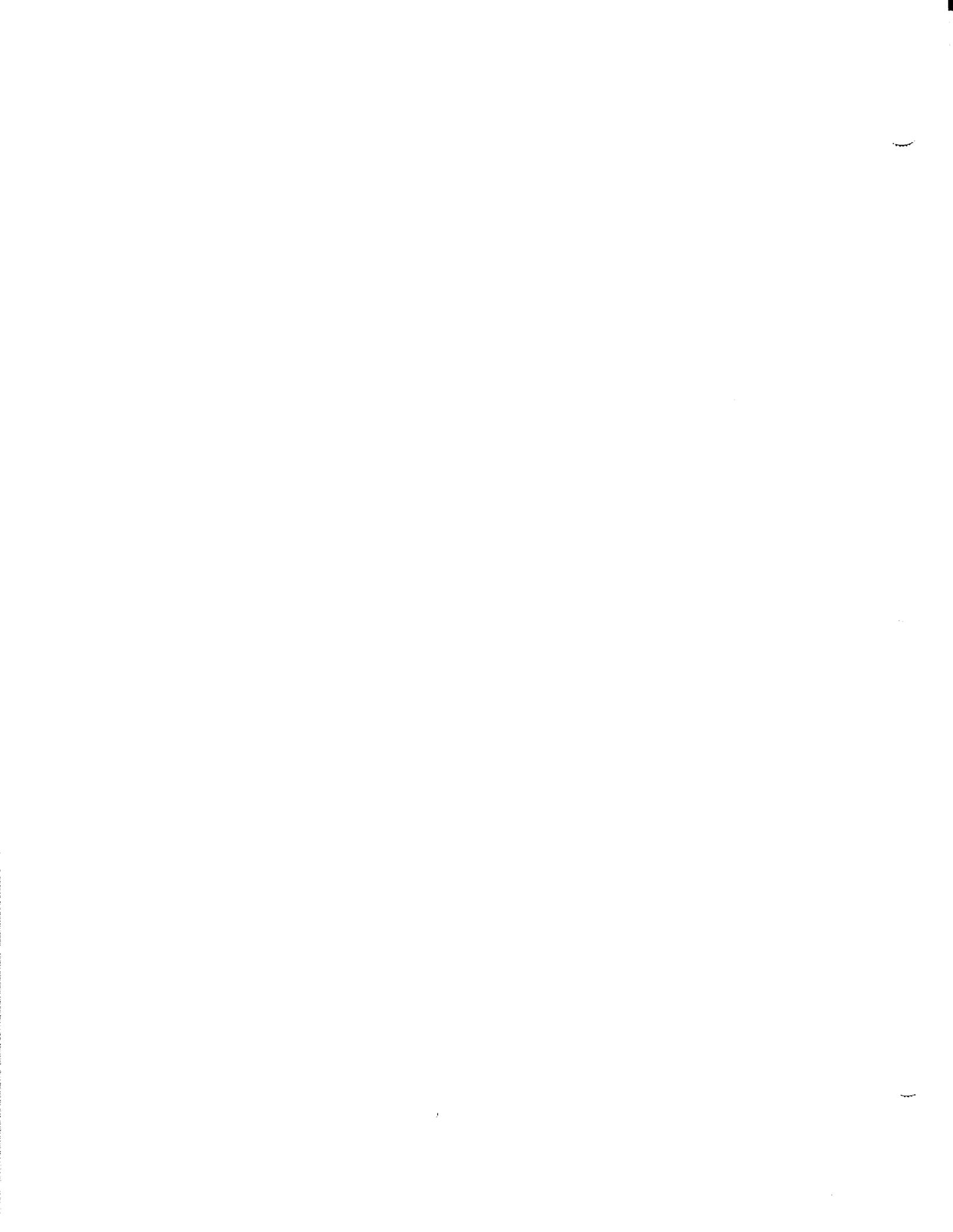
Calscience Environmental Laboratories, Inc.

Date Loaded	Pos	Directory	Data File	CEL ID #	Mtx Loaded	Amount pH Loaded <2	ISS	Lot # Cal. Std.	By	Comments
3/31/00	2	000331	31MAR002	BNA-80	N/A	1ul	N/A	5033000B LC		
	3		003	-160				5033000B		
	4		004	-120				C		
	5		005	-50				E		
	6		006	-20				F		
4/02/00	1	000403	03APR001	DFTPP	N/A	1ul	N/A	5032000A		
	2		2	BNA-80 ICU				5012800A		
	3		3	BNA-5				1228800A		
	4		4	DFTPP				5032000A		
	5		5	BNA-80				5037000D		
	6		6	8270W BLK				N/A		0004012
	7		7	LC5						
	8		8	LCSD						
	9		9	00031138-1						
	10		10	00031187-1						
	11		11	8270S BLK						0004024
	12		12	LC5						
	13		13	LCSD						
	14		14	00031187-2						
	15		15	-3						

INSTRUMENT LOGBOOK

Calscience Environmental Laboratories, Inc.

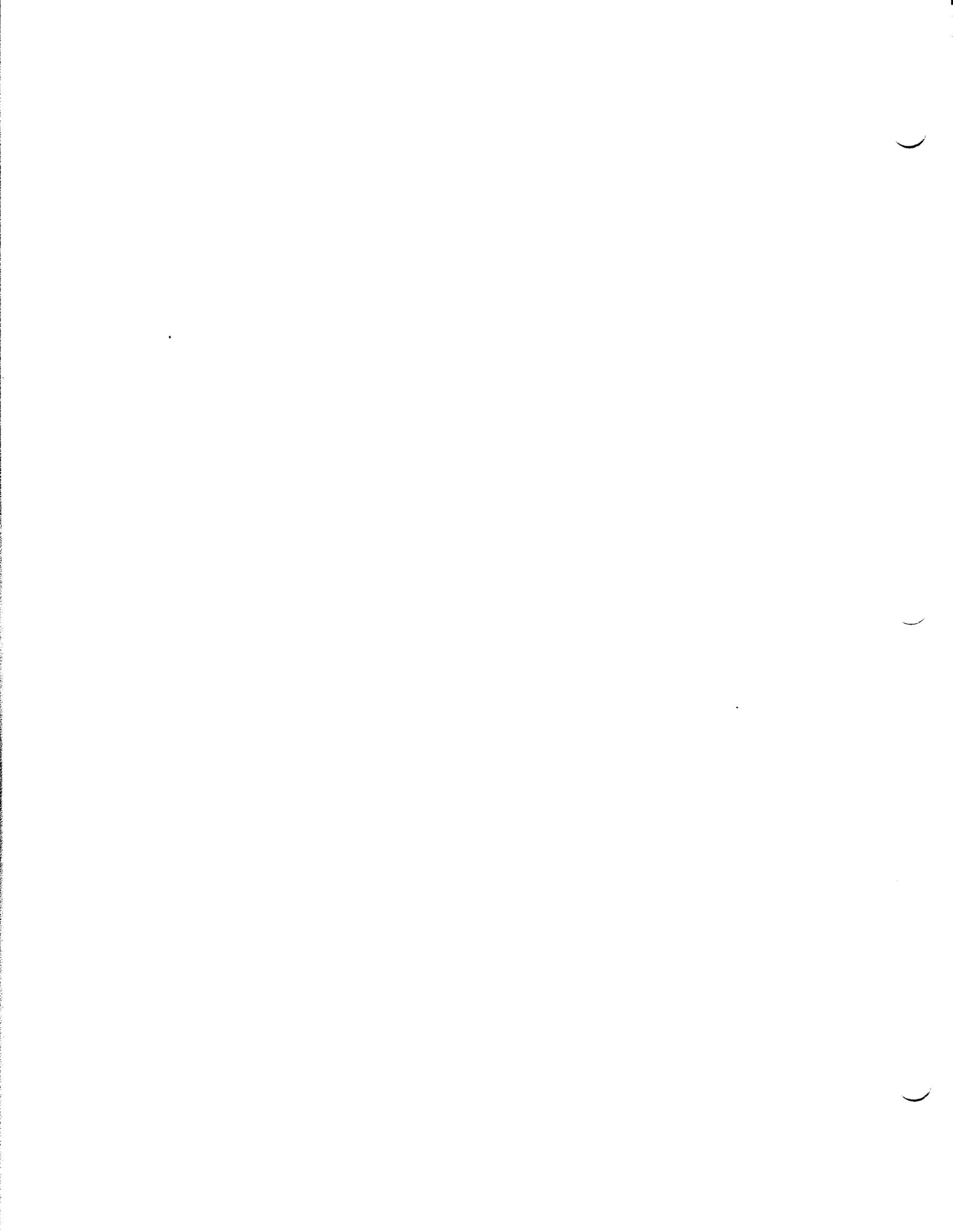
Date Loaded	Pos	Directory	Data File	CEL ID #	Mtx	Amount Loaded	pH	IS/SS	Lot #	Cal. Std.	By	Comments
04/02/00	16	000403	03APR06	00031187-4	N/A	1ul	N/A	N/A	N/A	N/A		
	17			-2 MS								
	18			-2 MSD								
	19			-5								
	20			-6								
	21			DFTPP					S032000A			
	22			BNA-80					S033000B			
04/04/00	1	000404	04APR01	DFTPP		1ul	N/A	N/A	N/A	S032000A		
	2			BNA-80					S033000D			
	3			00031187-7					N/A			0004024
	4			-8								
	5			-9								
	6			-10								
	7			-11								
	8			-12								
	9			-13								
	10			-14								
	11			-15								
	12			-16								
	13			-17								





Samples Raw Data

Geomatrix Consultants



Data File : C:\HPCHEM\1\DATA\000403\03APR009.D

Vial: 9

Acq On : 3 Apr 2000 4:57 pm

Operator:

Sample : 00031138-1 0004012

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 5 10:56 2000

Quant Results File: 000331.RES

Int Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Mon Apr 03 15:17:42 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	6.11	152	436457	40.00	mg/l	0.00
19) Naphthalene-d8	7.48	136	1510989	40.00	mg/l	-0.02
35) Acenaphthene-d10	9.47	164	896792	40.00	mg/l	-0.01
55) Phenanthrene-d10	11.14	188	1386078	40.00	mg/l	-0.02
68) Chrysene-d12	14.60	240	1421877	40.00	mg/l	-0.04
76) Perylene-d12	17.64	264	1230807	40.00	mg/l	-0.06

System Monitoring Compounds

4) 2-Fluorophenol	4.86	112	1161641	83.62	mg/l1	-0.02
Spiked Amount 100.000			Recovery =	83.62%		
6) Phenol-d6	5.74	99	1380928	86.58	mg/l	-0.03
Spiked Amount 100.000			Recovery =	86.58%		
20) Nitrobenzene-d5	6.72	82	1166804	94.94	mg/l	-0.02
Spiked Amount 100.000			Recovery =	94.94%		
40) 2-Fluorobiphenyl	8.69	172	2155661	88.19	mg/l	-0.02
Spiked Amount 100.000			Recovery =	88.19%		
59) 2,4,6-Tribromophenol	10.37	330	287989	101.62	mg/l	-0.03
Spiked Amount 100.000			Recovery =	101.62%		
70) p-Terphenyl-d14	12.98	244	2843673	91.66	mg/l	0.00
Spiked Amount 100.000			Recovery =	91.66%		

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Pyridine	0.00	52	0		N.D.	
3) N-Nitrosodimethylamine	0.00	74	0		N.D.	
5) Aniline	0.00	93	0		N.D.	
7) Phenol	5.76	94	1262		N.D.	
8) Bis(2-Chloroethyl) Ether	0.00	93	0		N.D.	
9) 2-Chlorophenol	5.93	128	226		N.D.	
10) 1,3-Dichlorobenzene	0.00	146	0		N.D.	
11) 1,4-Dichlorobenzene	0.00	146	0		N.D.	
12) Benzyl Alcohol	6.29	79	41		N.D.	
13) 1,2-Dichlorobenzene	0.00	146	0		N.D.	
14) 2-Methylphenol	0.00	108	0		N.D.	
15) Bis(2-Chloroisopropyl) Eth	6.42	45	44		N.D.	
16) 3/4-Methylphenol	0.00	107	0		N.D.	
17) N-Nitroso-di-n-propylamine	6.60	70	0		N.D.	
18) Hexachloroethane	0.00	117	0		N.D.	
21) Nitrobenzene	6.76	77	88		N.D.	
22) Isophorone	6.82	82	3555		N.D.	
23) 2-Nitrophenol	0.00	139	0		N.D.	
24) 2,4-Dimethylphenol	0.00	107	0		N.D.	
25) Benzoic Acid	7.30	105	92		N.D.	
26) Bis(2-Chloroethoxy) Methan	0.00	93	0		N.D.	
27) 2,4-Dichlorophenol	0.00	162	0		N.D.	
28) 1,2,4-Trichlorobenzene	0.00	180	0		N.D.	
29) Naphthalene	7.50	128	861		N.D.	
30) 4-Chloroaniline	0.00	127	0		N.D.	
31) Hexachloro-1,3-Butadiene	0.00	225	0		N.D.	
32) 4-Chloro-3-Methylphenol	8.11	107	412		N.D.	
33) 2-Methylnaphthalene	8.26	142	53		N.D.	
34) 1-Methylnaphthalene	8.37	142	42		N.D.	

(#)= qualifier out of range (m) = manual integration

03APR009.D 000331.M Wed Apr 05 10:58:06 2000

Data File : C:\HPCHEM\1\DATA\000403\03APR009.D

Vial: 9

Acq On : 3 Apr 2000 4:57 pm

Operator:

Sample : 00031138-1 0004012

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 5 10:56 2000

Quant Results File: 000331.RES

Quant Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Mon Apr 03 15:17:42 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Hexachlorocyclopentadiene	0.00	237	0		N.D.	
37) 2,4,6-Trichlorophenol	0.00	196	0		N.D.	
38) 2,4,5-Trichlorophenol	0.00	196	0		N.D.	
39) 2-Chloronaphthalene	0.00	162	0		N.D.	
41) 2-Nitroaniline	9.03	65	39		N.D.	
42) Dimethyl Phthalate	9.17	163	60		N.D.	
43) Acenaphthylene	9.30	152	54		N.D.	
44) 3-Nitroaniline	0.00	138	0		N.D.	
45) Acenaphthene	0.00	153	0		N.D.	
46) 2,4-Dinitrophenol	0.00	184	0		N.D.	
47) 4-Nitrophenol	0.00	139	0		N.D.	
48) Dibenzofuran	0.00	168	0		N.D.	
49) 2,4-Dinitrotoluene	0.00	165	0		N.D.	
50) 2,6-Dinitrotoluene	0.00	165	0		N.D.	
51) Diethyl Phthalate	9.95	149	1385		N.D.	
52) 4-Chlorophenyl-Phenyl Ethe	0.00	204	0		N.D.	
53) Fluorene	0.00	166	0		N.D.	
54) 4-Nitroaniline	0.00	138	0		N.D.	
56) Azobenzene	10.25	77	458		N.D.	
57) 4,6-Dinitro-2-Methylphenol	10.36	198	327		N.D.	
58) N-Nitrosodiphenylamine	0.00	169	0		N.D.	
60) 4-Bromophenyl-Phenyl Ether	0.00	248	0		N.D.	
61) Hexachlorobenzene	0.00	284	0		N.D.	
62) Pentachlorophenol	0.00	266	0		N.D.	
63) Phenanthrene	11.17	178	41		N.D.	
64) Anthracene	0.00	178	0		N.D.	
65) Di-n-Butyl Phthalate	11.79	149	4078		N.D.	
66) Fluoranthene	0.00	202	0		N.D.	
67) Benzidine	0.00	184	0		N.D.	
69) Pyrene	12.81	202	742		N.D.	
71) Butyl Benzyl Phthalate	13.64	149	1328		N.D.	
72) 3,3'-Dichlorobenzidine	0.00	252	0		N.D.	
73) Benzo (a) Anthracene	14.60	228	3511		N.D.	
74) Bis(2-Ethylhexyl) Phthalat	14.60	149	3249		N.D.	
75) Chrysene	0.00	228	0		N.D.	
77) Di-n-Octyl Phthalate	15.87	149	42		N.D.	
78) Benzo (b) Fluoranthene	0.00	252	0		N.D.	
79) Benzo (k) Fluoranthene	0.00	252	0		N.D.	
80) Benzo (a) Pyrene	17.62	252	1865		N.D.	
81) Indeno (1,2,3-c,d) Pyrene	0.00	276	0		N.D.	
82) Dibenz (a,h) Anthracene	0.00	278	0		N.D.	
83) Benzo (g,h,i) Perylene	0.00	276	0		N.D.	

(#) = qualifier out of range (m) = manual integration

03APR009.D 000331.M Wed Apr 05 10:58:10 2000

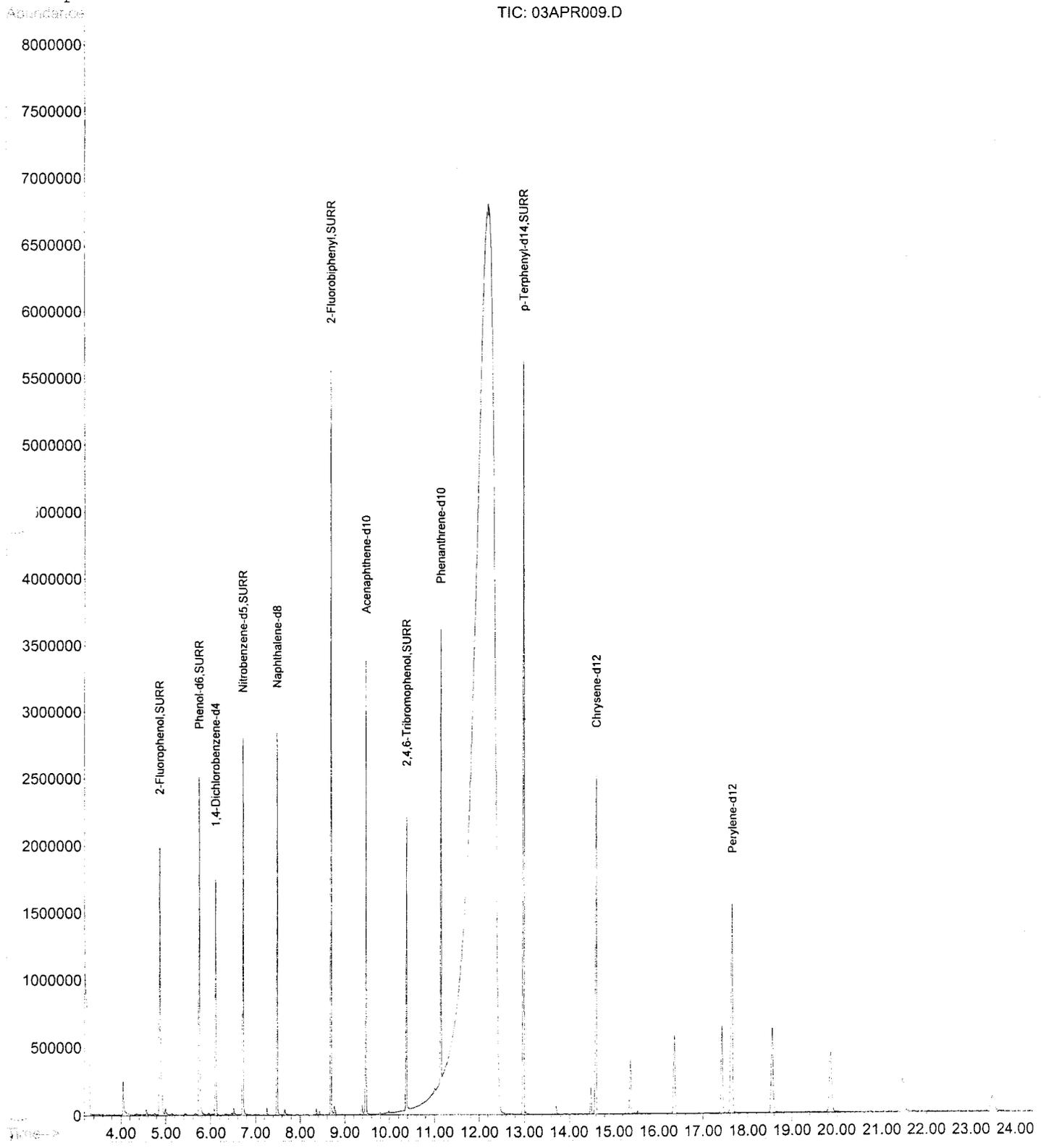
Page 2

Data File : C:\HPCHEM\1\DATA\000403\03APR009.D
Acq On : 3 Apr 2000 4:57 pm
Sample : 00031138-1 0004012
Misc :
MS Integration Params: rteint.p
Quant Time: Apr 5 10:56 2000

Vial: 9
Operator:
Inst : GC/MS J
Multiplr: 1.00

Quant Results File: 000331.RES

Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Mon Apr 03 15:17:42 2000
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\000403\03APR009.D Vial: 9
 Acq On : 3 Apr 2000 4:57 pm Operator:
 Sample : 00031138-1 0004012 Inst : GC/MS J
 Misc : Multiplr: 1.00
 MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)
 Title : BNA 8270/625 CALIBRATION
 Smoothing : OFF Filtering: 5
 Sampling : 1 Min Area: 1 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

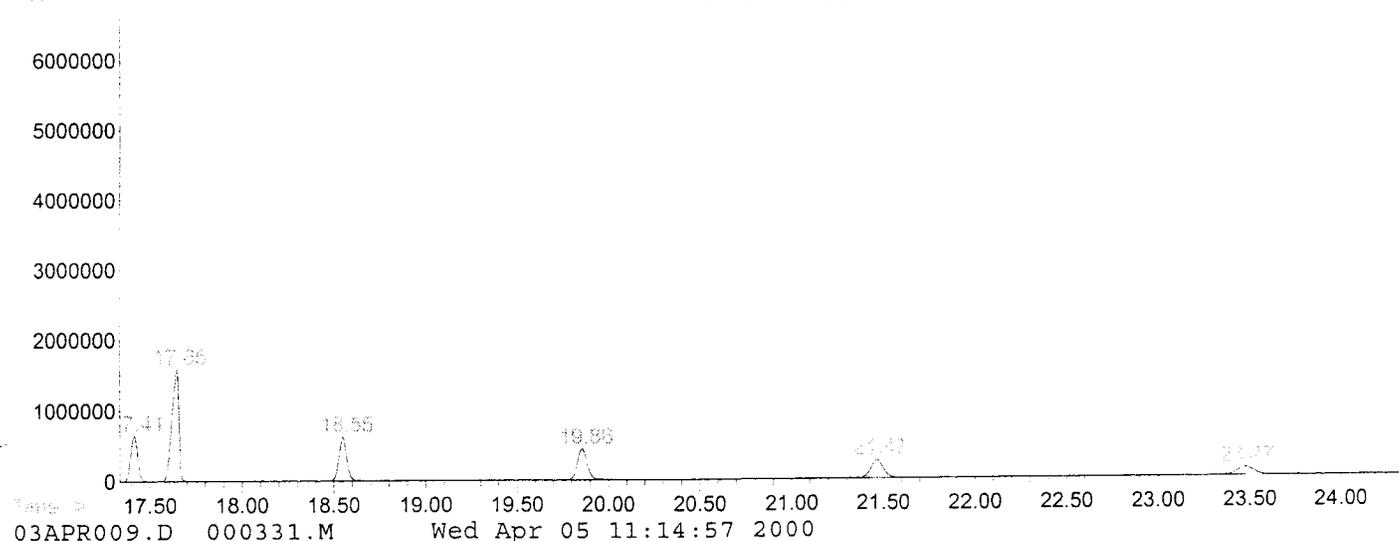
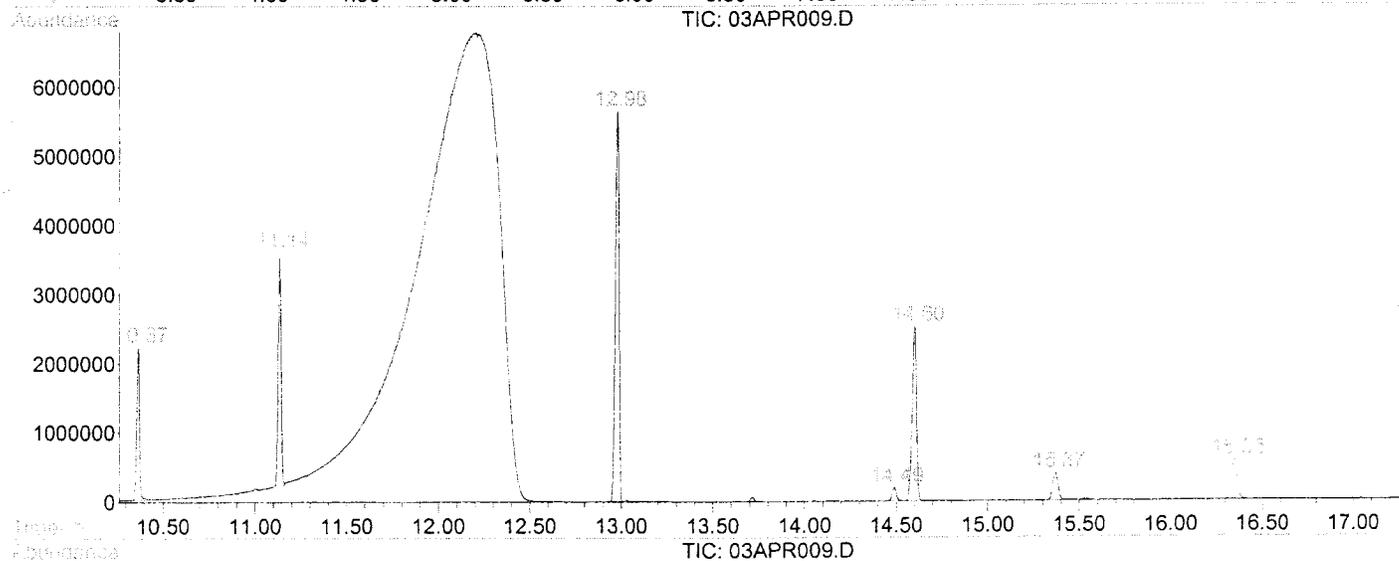
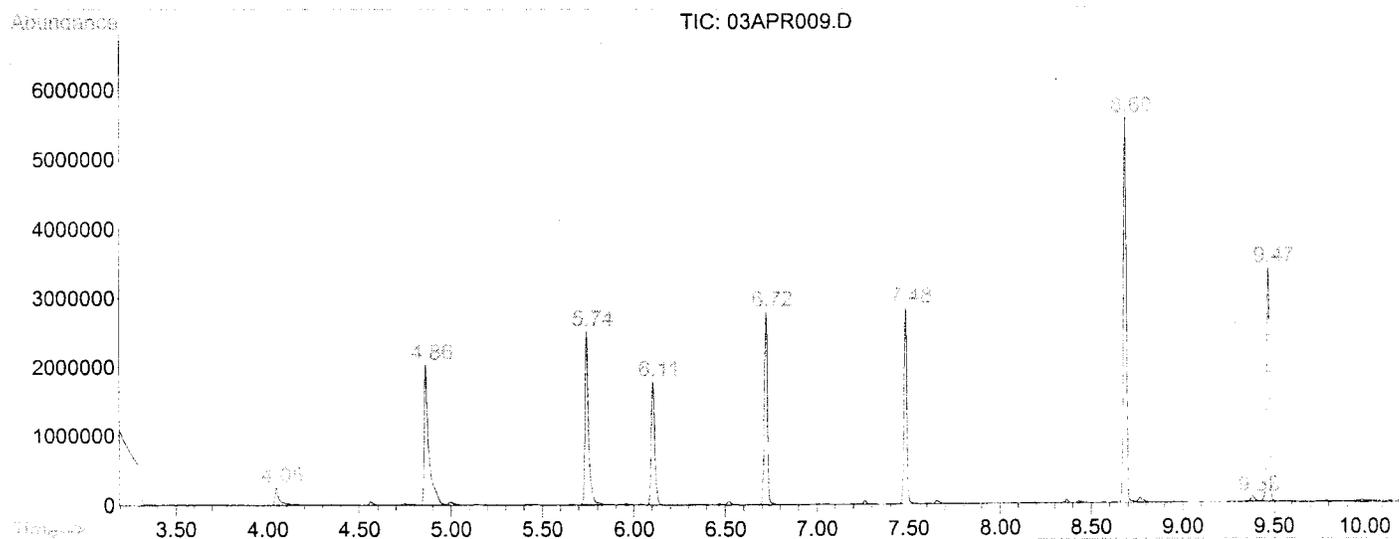
Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.046	324	333	370	rBV	259209	411263	5.00%	0.717%
2	4.863	639	651	692	rBV	2035105	3406958	41.43%	5.937%
3	5.743	980	993	1025	rBV	2526839	3316311	40.32%	5.779%
4	6.105	1122	1134	1153	rBV	1795107	2329917	28.33%	4.060%
5	6.722	1360	1374	1397	rBV	2802687	3311256	40.26%	5.770%
6	7.483	1659	1670	1691	rBV	2839013	3040944	36.98%	5.299%
7	8.689	2125	2139	2158	rBV	5566934	6164059	74.95%	10.742%
8	9.381	2392	2408	2424	rBV2	74179	119363	1.45%	0.208%
9	9.468	2425	2442	2462	rVV	3391504	3593653	43.70%	6.262%
10	10.368	2780	2792	2810	rBV	2217122	2392873	29.10%	4.170%
11	11.137	3081	3091	3101	rBV2	3375427	3590691	43.66%	6.257%
12	12.982	3788	3809	3820	rBV2	5658079	8224137	100.00%	14.332%
13	14.489	4382	4395	4410	rVB	199697	299662	3.64%	0.522%
14	14.605	4418	4440	4456	rBV2	2536587	4335781	52.72%	7.556%
15	15.371	4718	4738	4757	rBV2	399775	783281	9.52%	1.365%
16	16.350	5098	5119	5142	rBV4	580335	1308937	15.92%	2.281%
17	17.415	5511	5533	5559	rBV2	648662	1664501	20.24%	2.901%
18	17.646	5591	5623	5641	rBV2	1589391	4191599	50.97%	7.304%
19	18.554	5948	5976	6005	rBV3	630123	1799450	21.88%	3.136%
20	19.860	6451	6484	6521	rBV2	441656	1616021	19.65%	2.816%
21	21.467	7072	7109	7152	rBV5	256996	1160169	14.11%	2.022%
22	23.469	7847	7888	7890	rBV3	112802	324046	3.94%	0.565%

Sum of corrected areas: 57384872

03APR009.D 000331.M Wed Apr 05 11:14:42 2000

File : C:\HPCHEM\1\DATA\000403\03APR009.D
Operator :
Acquired : 3 Apr 2000 4:57 pm using AcqMethod SVOA
Instrument : GC/MS J
Sample Name: 00031138-1 0004012
Misc Info :
Vial Number: 9
Quant File :000331.RES (RTE Integrator)



Data File : C:\HPCHEM\1\DATA\000403\03APR009.D
Acq On : 3 Apr 2000 4:57 pm
Sample : 00031138-1 0004012
Misc :
MS Integration Params: LSCINT.P

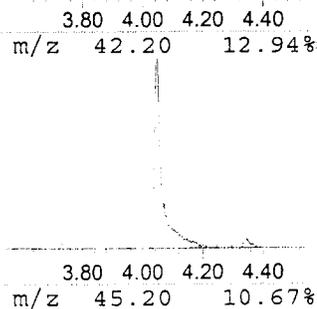
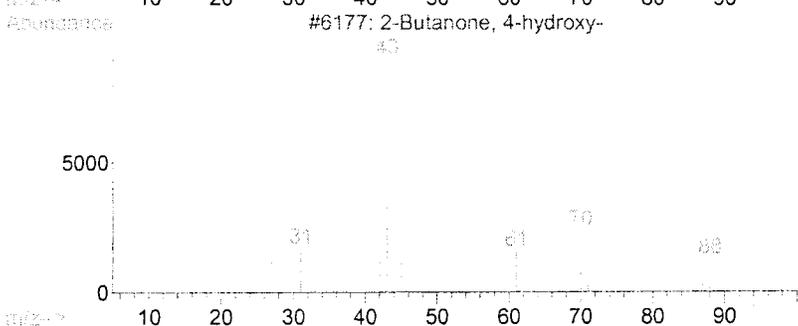
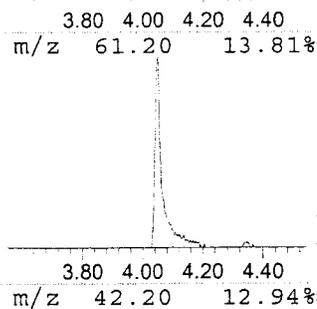
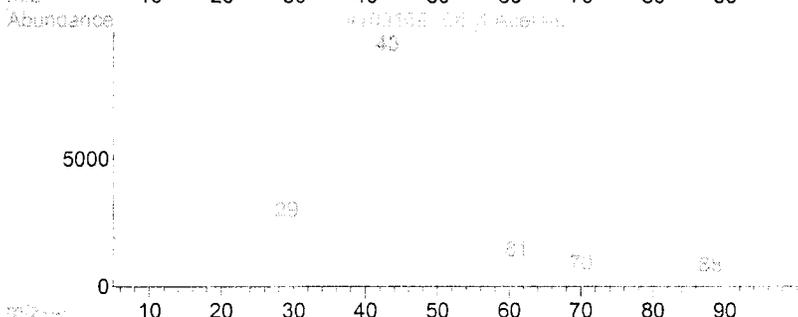
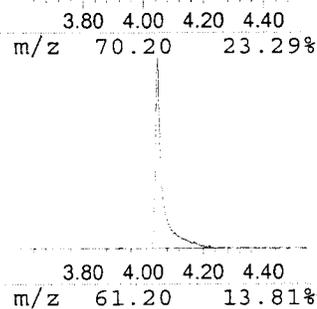
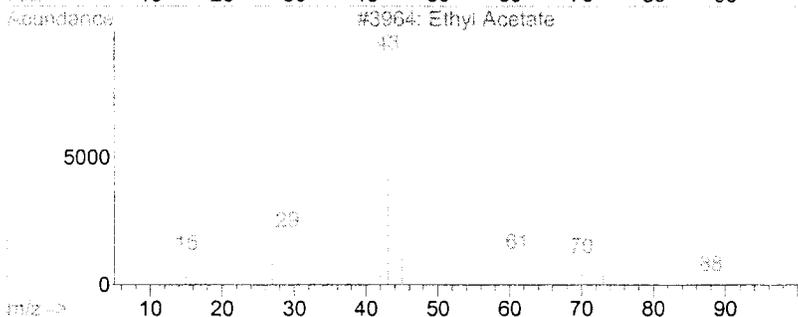
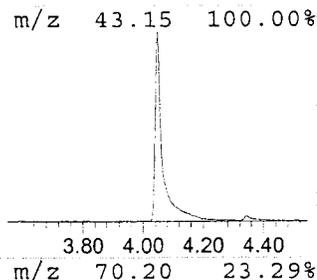
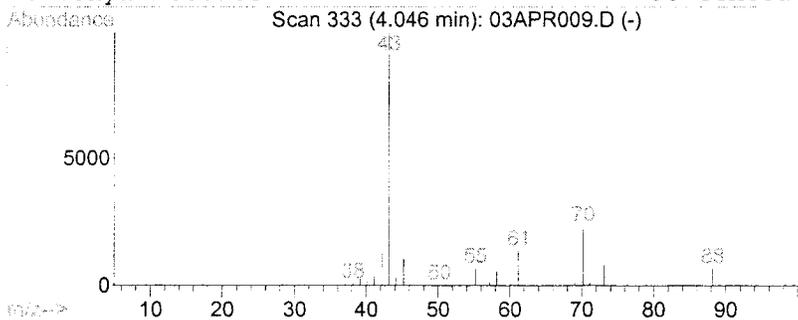
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Operator:
Inst : GC/MS J
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Library : C:\DATABASE\NIST98.L

Peak Number 1 Ethyl Acetate Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.05	7.06 mg/l	411263	1,4-Dichlorobenzene-d4	6.11

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Ethyl Acetate	88	C4H8O2	000141-78-6	52
2			Ethyl Acetate	88	C4H8O2	000141-78-6	50
3			2-Butanone, 4-hydroxy-	88	C4H8O2	1000197-37-3	50
4			Ethyl Acetate	88	C4H8O2	000141-78-6	50



Data File : C:\HPCHEM\1\DATA\000403\03APR009.D
Acq On : 3 Apr 2000 4:57 pm
Sample : 00031138-1 0004012
Misc :
MS Integration Params: LSCINT.P

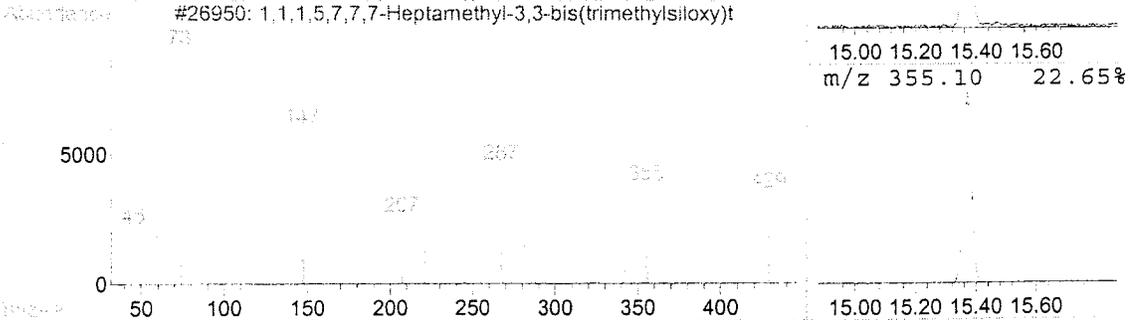
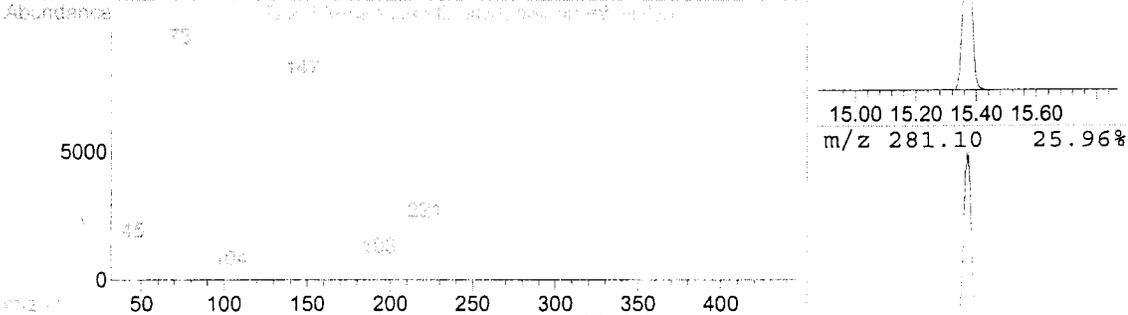
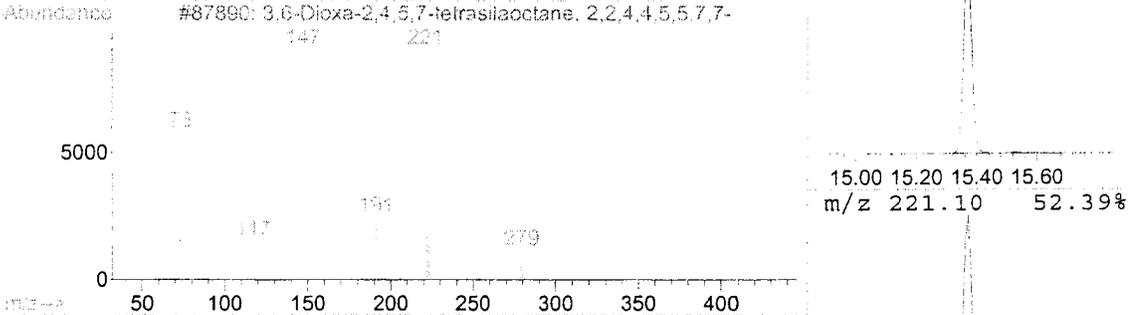
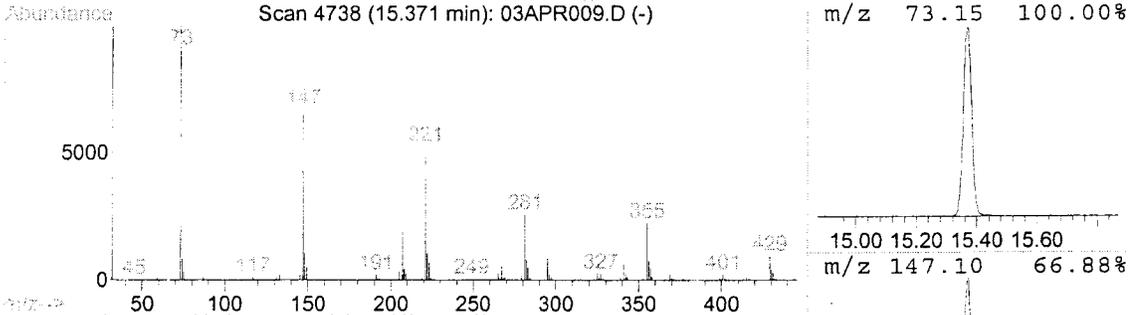
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Operator:
Inst : GC/MS J
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Library : C:\DATABASE\NIST98.L

Peak Number 2 3,6-Dioxa-2,4,5,7-tetrasilaoct Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.37	7.23 mg/l	783281	Chrysene-d12	14.60

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			3,6-Dioxa-2,4,5,7-tetrasilaoctane,	294	C10H30O2Si4	004342-25-0	37
2			Mercaptoacetic acid, bis(trimethyls	236	C8H20O2SSi2	006398-62-5	37
3			1,1,1,5,7,7,7-Heptamethyl-3,3-bis(t	444	C13H40O5Si6	038147-00-1	33
4			Trisiloxane, 1,1,1,5,5,5-hexamethyl	384	C12H36O4Si5	003555-47-3	25



Data File : C:\HPCHEM\1\DATA\000403\03APR009.D
 Acq On : 3 Apr 2000 4:57 pm
 Sample : 00031138-1 0004012
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 MS Integration Params: LSCINT.P

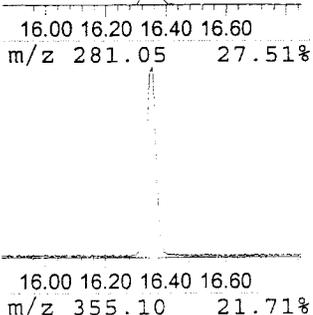
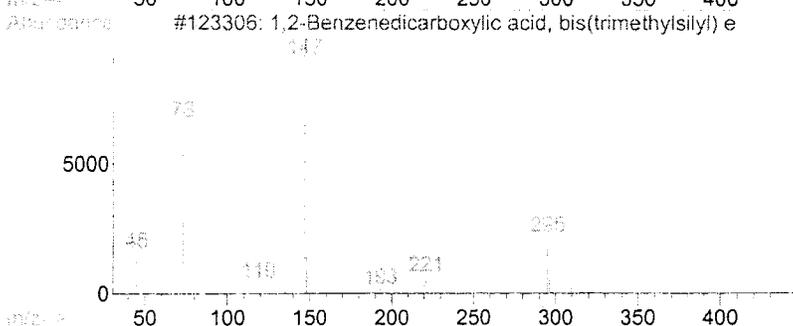
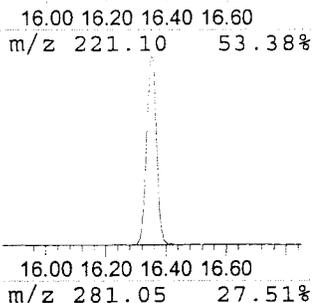
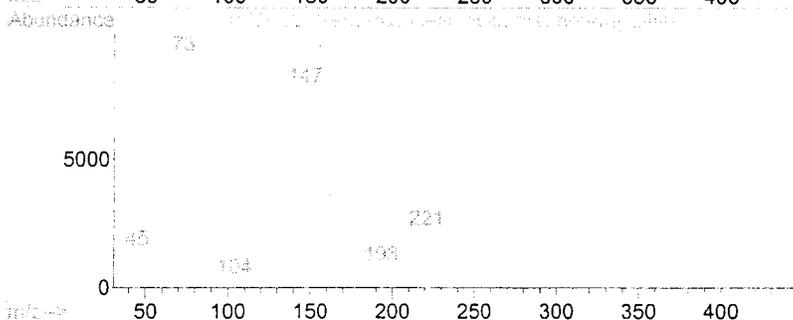
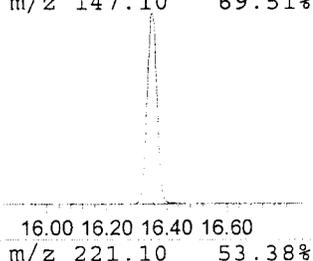
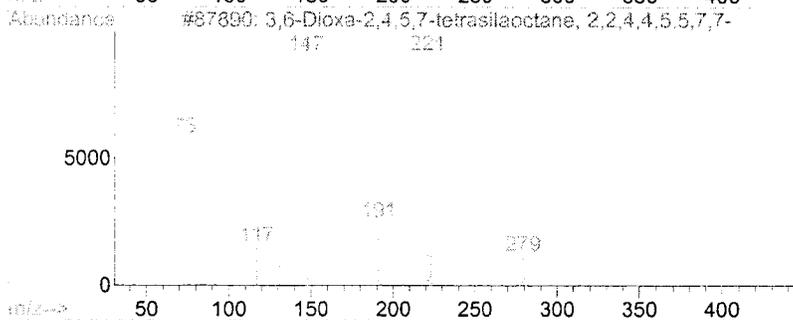
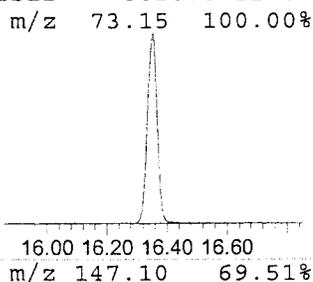
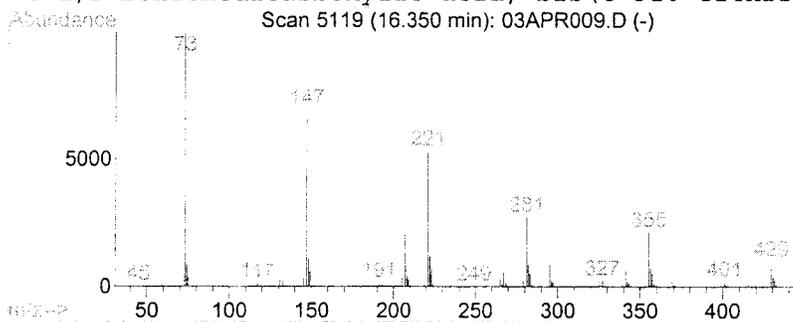
Vial: 9
 Operator:
 Inst : GC/MS J
 Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)
 Title : BNA 8270/625 CALIBRATION
 Library : C:\DATABASE\NIST98.L

 Peak Number 3 3,6-Dioxa-2,4,5,7-tetrasilaoct Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.35	12.49 mg/l	1308940	Perylene-d12	17.64

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			3,6-Dioxa-2,4,5,7-tetrasilaoctane,	294	C10H30O2Si4	004342-25-0	37
2			Mercaptoacetic acid, bis(trimethyls	236	C8H20O2SSi2	006398-62-5	37
3			1,2-Benzenedicarboxylic acid, bis(t	310	C14H22O4Si2	002078-22-0	22
4			1,2-Benzenedicarboxylic acid, bis(t	310	C14H22O4Si2	002078-22-0	22



Data File : C:\HPCHEM\1\DATA\000403\03APR009.D
Acq On : 3 Apr 2000 4:57 pm
Sample : 00031138-1 0004012
Misc :
MS Integration Params: LSCINT.P

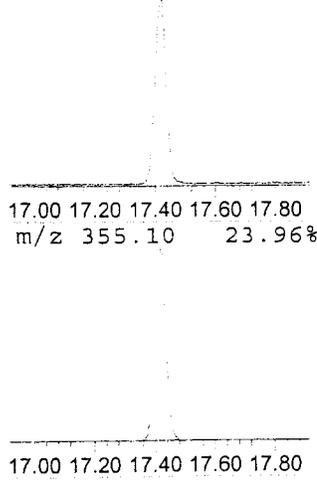
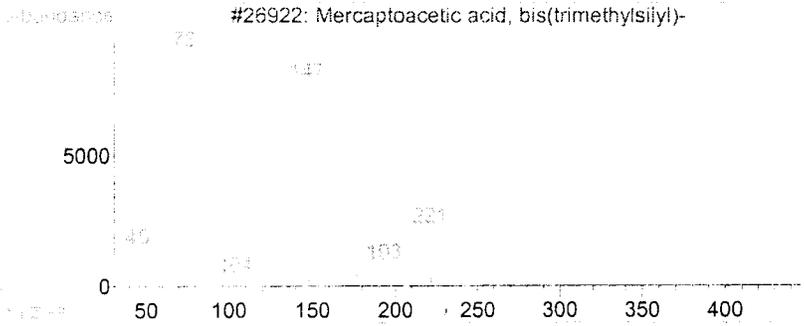
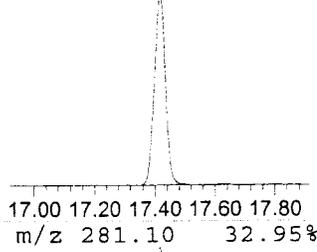
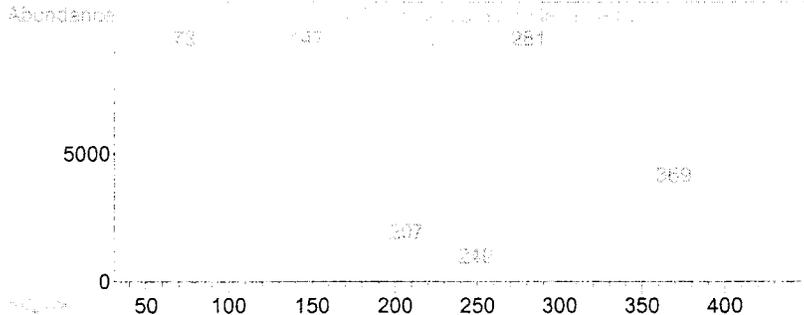
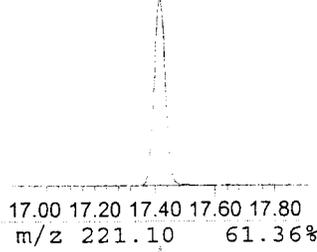
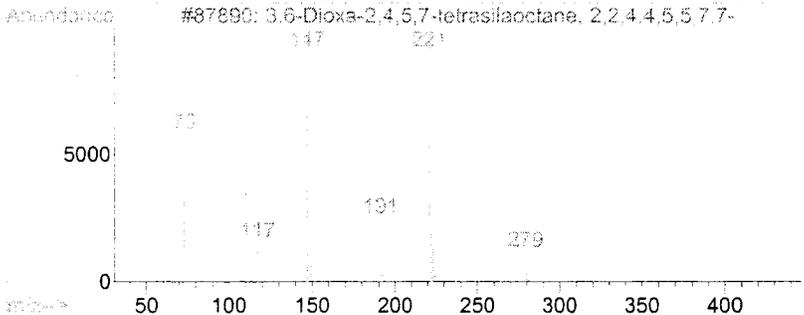
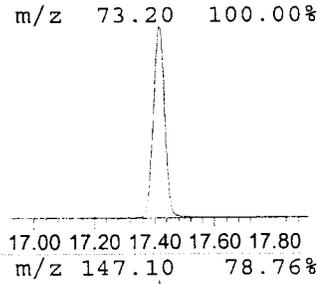
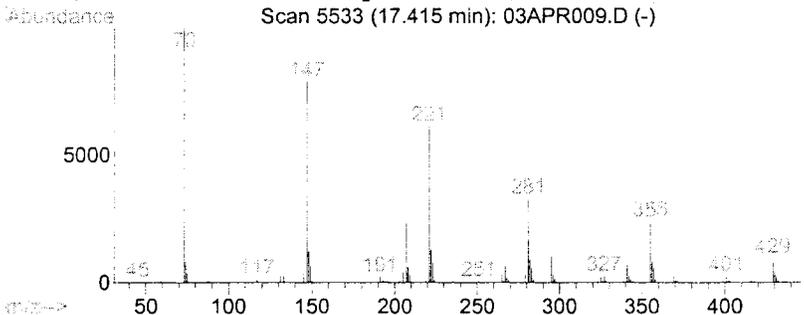
Vial: 9
Operator:
Inst : GC/MS J
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Library : C:\DATABASE\NIST98.L

Peak Number 4 3,6-Dioxa-2,4,5,7-tetrasilaoct Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.41	15.88 mg/l	1664500	Perylene-d12	17.64

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			3,6-Dioxa-2,4,5,7-tetrasilaoctane,	294	C10H30O2Si4	004342-25-0	43
2			Pentasiloxane, dodecamethyl-	384	C12H36O4Si5	000141-63-9	38
3			Mercaptoacetic acid, bis(trimethyls	236	C8H20O2SSi2	006398-62-5	37
4			1,2-Benzenedicarboxylic acid, bis(t	310	C14H22O4Si2	002078-22-0	27



Data File : C:\HPCHEM\1\DATA\000403\03APR009.D
Acq On : 3 Apr 2000 4:57 pm
Sample : 00031138-1 0004012
Misc :
MS Integration Params: LSCINT.P

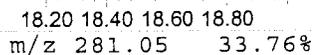
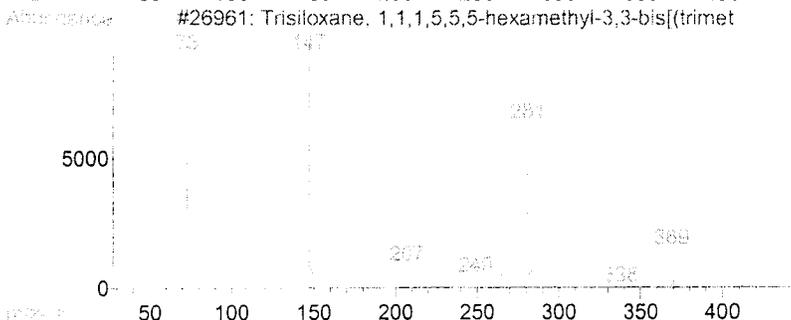
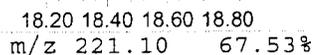
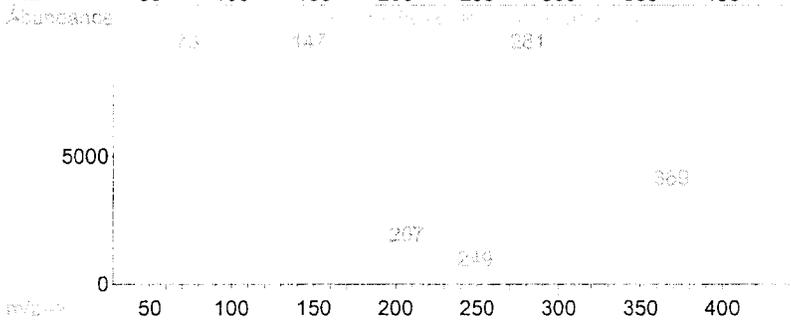
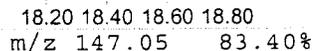
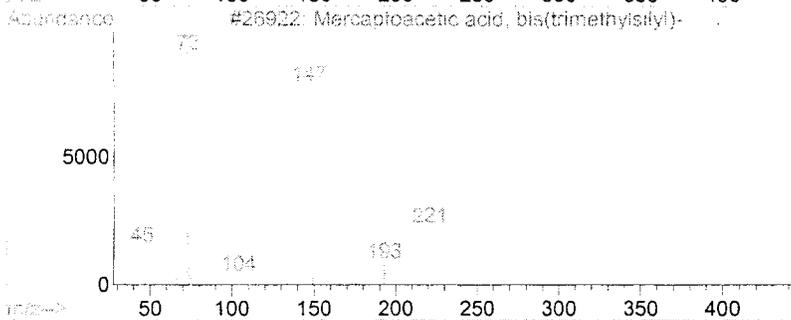
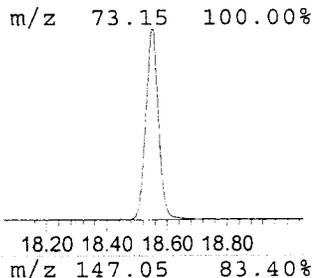
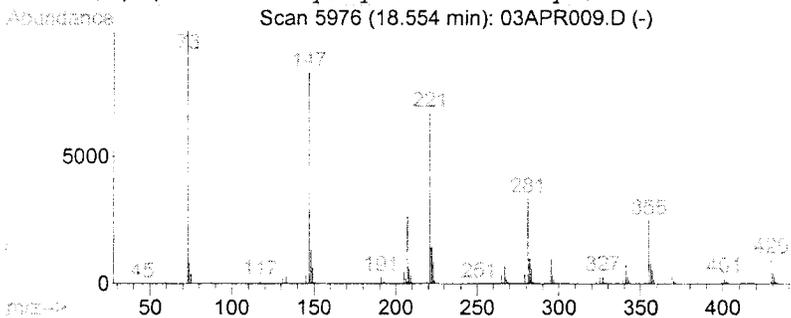
Vial: 9
Operator:
Inst : GC/MS J
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Library : C:\DATABASE\NIST98.L

Peak Number 5 Mercaptoacetic acid, bis(trimethyl Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.55	17.17 mg/l	1799450	Perylene-d12	17.64

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Mercaptoacetic acid, bis(trimethyls	236	C8H20O2SSi2	006398-62-5	43
2		Pentasiloxane, dodecamethyl-	384	C12H36O4Si5	000141-63-9	38
3		Trisiloxane, 1,1,1,5,5,5-hexamethyl	384	C12H36O4Si5	003555-47-3	38
4		2-(2,6,6-Trimethylcyclohex-1-enyl)c	222	C14H22O2	1000185-64-1	35



Data File : C:\HPCHEM\1\DATA\000403\03APR009.D
Acq On : 3 Apr 2000 4:57 pm
Sample : 00031138-1 0004012
Misc :
MS Integration Params: LSCINT.P

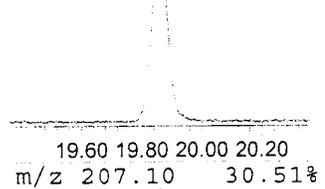
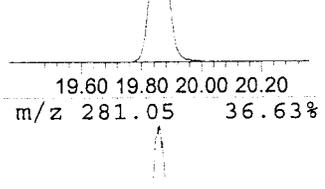
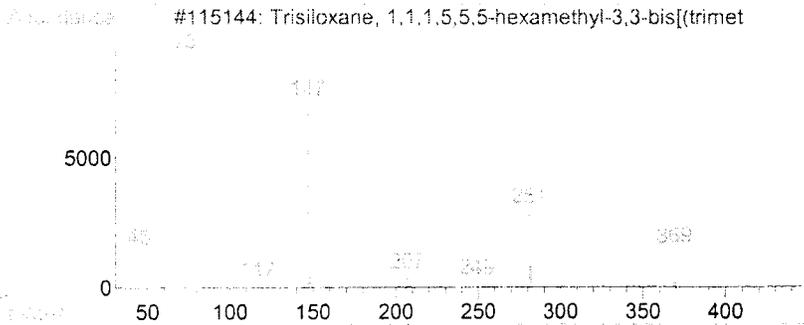
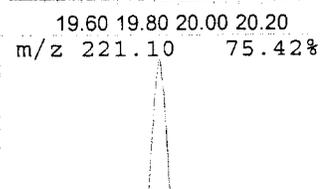
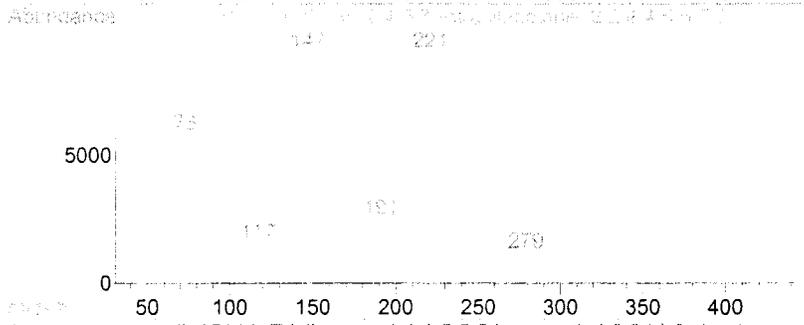
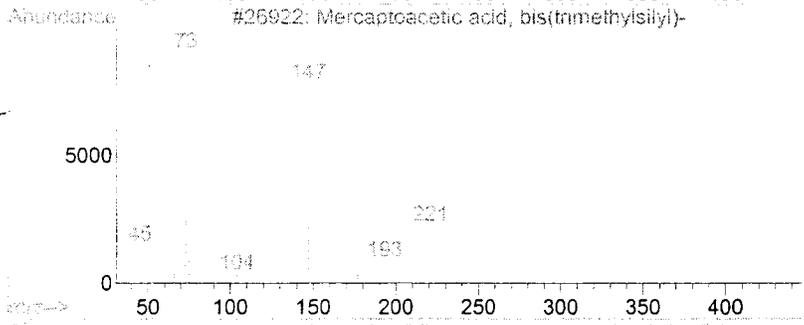
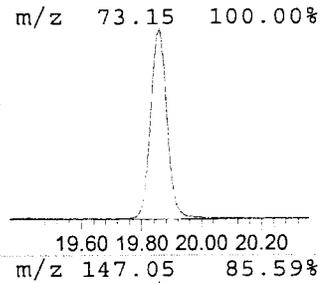
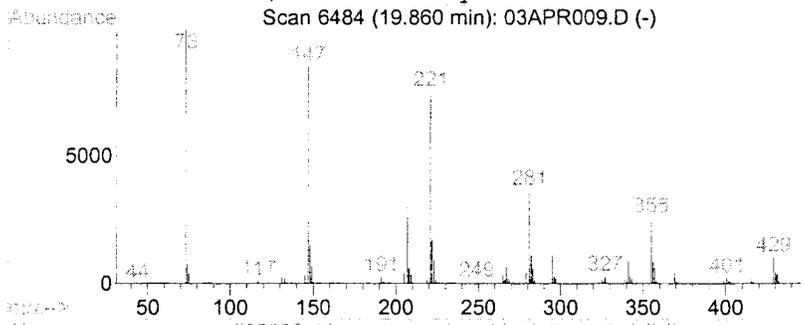
Vial: 9
Operator:
Inst : GC/MS J
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Library : C:\DATABASE\NIST98.L

Peak Number 6 Mercaptoacetic acid, bis(trimethy Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.86	15.42 mg/l	1616020	Perylene-d12	17.64

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Mercaptoacetic acid, bis(trimethyls	236	C8H20O2SSi2	006398-62-5	47
2		3,6-Dioxa-2,4,5,7-tetrasilaoctane,	294	C10H30O2Si4	004342-25-0	40
3		Trisiloxane, 1,1,1,5,5,5-hexamethyl	384	C12H36O4Si5	003555-47-3	30
4		Pentasiloxane, dodecamethyl-	384	C12H36O4Si5	000141-63-9	27



Data File : C:\HPCHEM\1\DATA\000403\03APR009.D
Acq On : 3 Apr 2000 4:57 pm
Sample : 00031138-1 0004012
Misc :
MS Integration Params: LSCINT.P

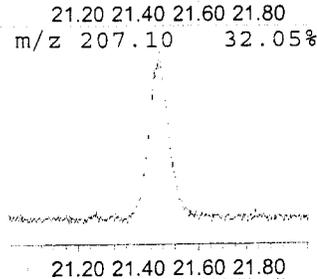
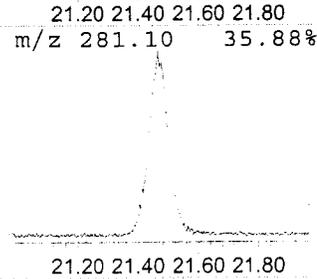
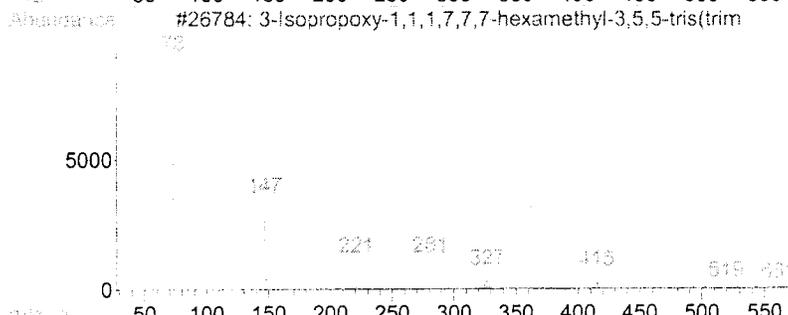
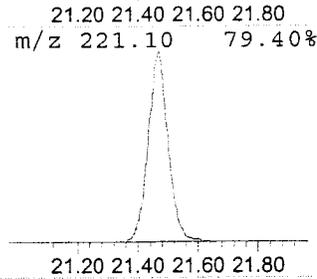
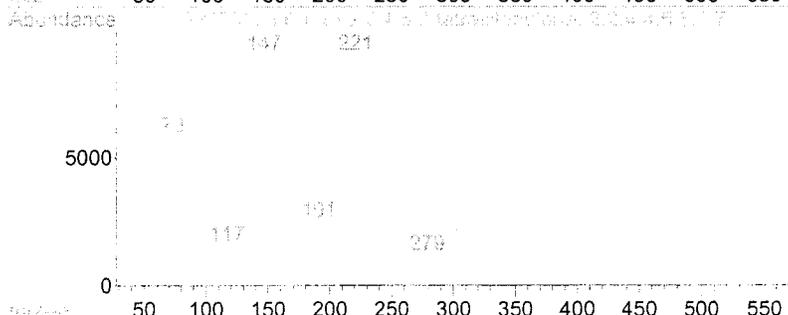
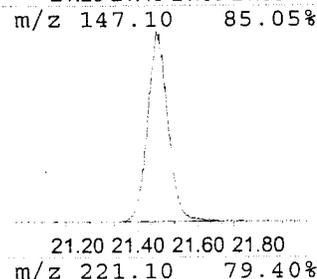
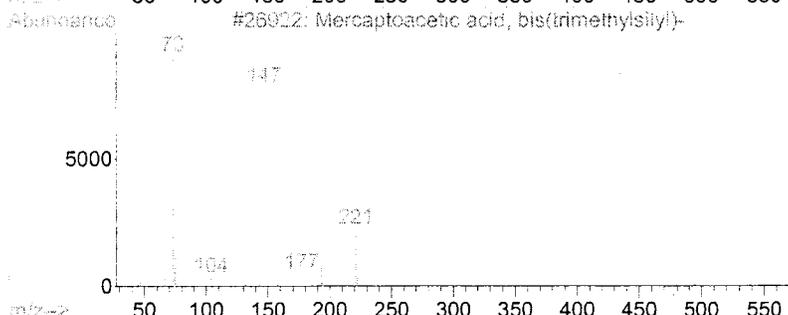
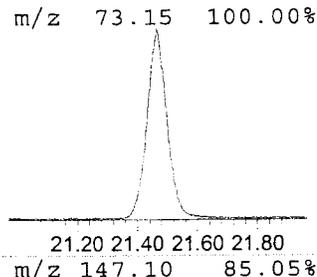
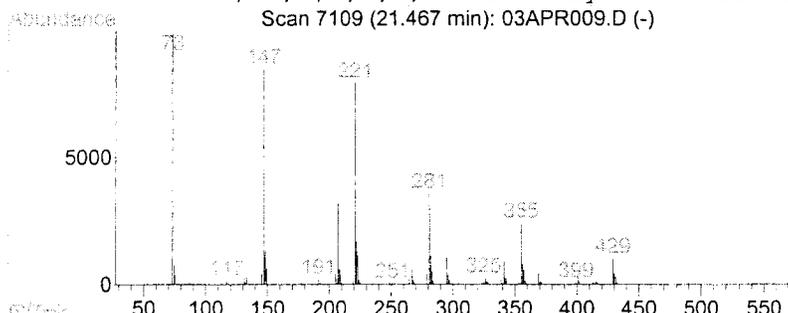
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Operator:
Inst : GC/MS J
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Library : C:\DATABASE\NIST98.L

Peak Number 7 Mercaptoacetic acid, bis(trimethyl Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.47	11.07 mg/l	1160170	Perylene-d12	17.64

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Mercaptoacetic acid, bis(trimethyls	236	C8H20O2SSi2	006398-62-5	47
2		3,6-Dioxa-2,4,5,7-tetrasilaoctane,	294	C10H30O2Si4	004342-25-0	40
3		3-Isopropoxy-1,1,1,7,7,7-hexamethyl	576	C18H52O7Si7	071579-69-6	37
4		Trisiloxane, 1,1,1,5,5,5-hexamethyl	384	C12H36O4Si5	003555-47-3	27



Operator ID: Date Acquired: 3 Apr 2000 4:57 pm

Data File: C:\HPCHEM\1\DATA\000403\03APR009.D

Name: 00031138-1 0004012

Misc:

Method: C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)

Title: BNA 8270/625 CALIBRATION

Library Searched: C:\DATABASE\NIST98.L

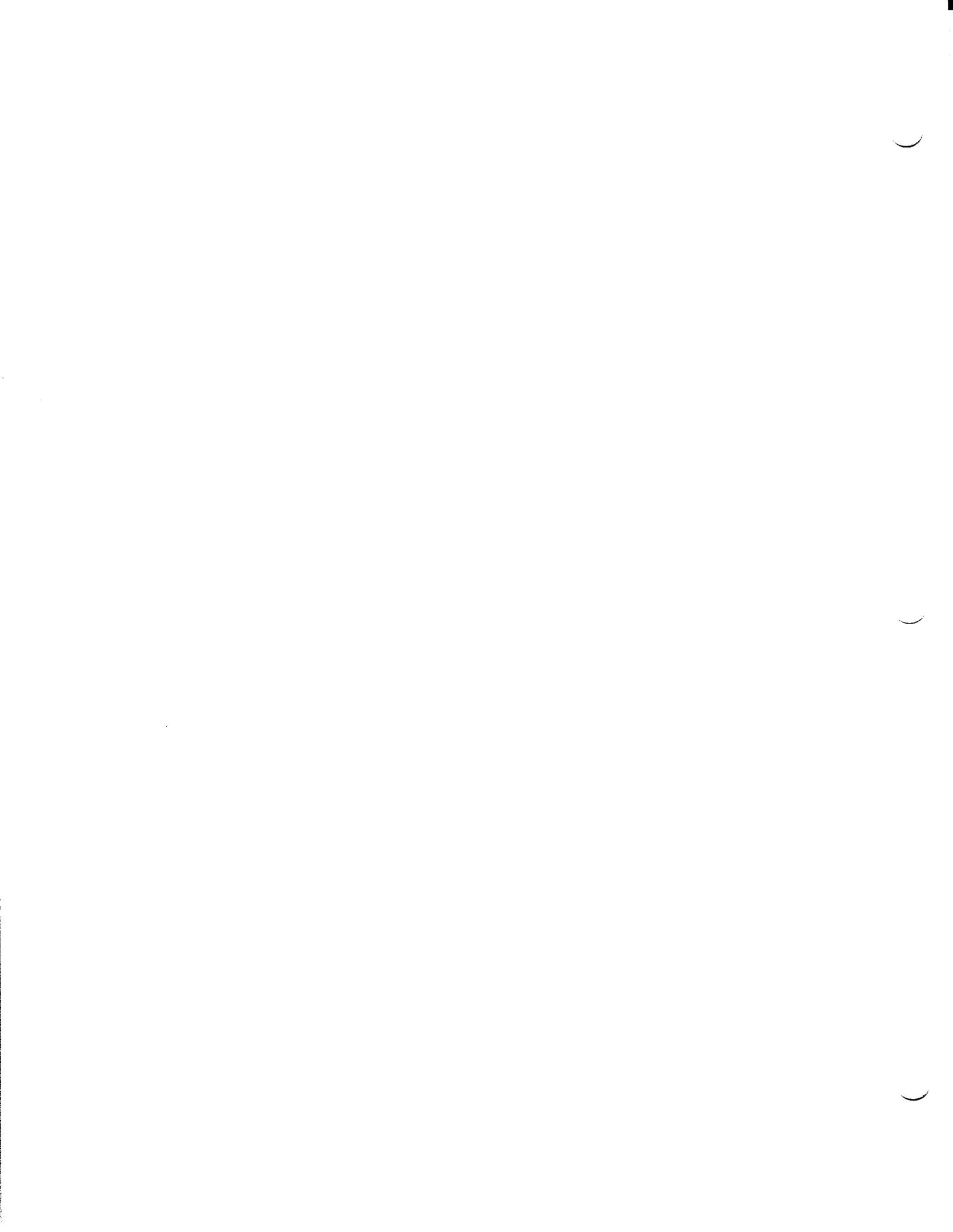
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3,6-Dioxa-2,4,5,7-te	15.37	7.2	mg/l	783281	ISTD05	14.60	4335780	40.0
3,6-Dioxa-2,4,5,7-te	16.35	12.5	mg/l	1308940	ISTD06	17.64	4191600	40.0
3,6-Dioxa-2,4,5,7-te	17.41	15.9	mg/l	1664500	ISTD06	17.64	4191600	40.0
Mercaptoacetic acid,	18.55	17.2	mg/l	1799450	ISTD06	17.64	4191600	40.0
Mercaptoacetic acid,	19.86	15.4	mg/l	1616020	ISTD06	17.64	4191600	40.0
Mercaptoacetic acid,	21.47	11.1	mg/l	1160170	ISTD06	17.64	4191600	40.0

03APR009.D 000331.M Wed Apr 05 11:16:32 2000



LCS/LCSD QC Data

Geomatrix Consultants



Data File : C:\HPCHEM\1\DATA\000403\03APR007.D
Acq On : 3 Apr 2000 3:46 pm
Sample : 8270W LCS 0004012
Misc :
MS Integration Params: rteint.p
Quant Time: Apr 5 9:26 2000

Vial: 7
Operator:
Inst : GC/MS J
Multiplr: 1.00

Quant Results File: 000331.RES

ant Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Mon Apr 03 15:17:42 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	6.11	152	439289	40.00	mg/l	0.00
19) Naphthalene-d8	7.49	136	1542044	40.00	mg/l	-0.01
35) Acenaphthene-d10	9.47	164	920090	40.00	mg/l	-0.01
55) Phenanthrene-d10	11.14	188	1477662	40.00	mg/l	-0.02
68) Chrysene-d12	14.60	240	1392540	40.00	mg/l	-0.04
76) Perylene-d12	17.61	264	374548	40.00	mg/l	-0.09

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
4) 2-Fluorophenol	4.87	112	1309387	93.65	mg/l	0.00
Spiked Amount	100.000		Recovery	=	93.65%	
6) Phenol-d6	5.75	99	1436788	89.50	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	89.50%	
20) Nitrobenzene-d5	6.73	82	1234403	98.42	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	98.42%	
40) 2-Fluorobiphenyl	8.69	172	2115971	84.38	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	84.38%	
59) 2,4,6-Tribromophenol	10.37	330	317037	104.93	mg/l	-0.03
Spiked Amount	100.000		Recovery	=	104.93%	
70) p-Terphenyl-d14	12.97	244	2803475	92.27	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	92.27%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Pyridine	3.70	52	39	N.D.		
3) N-Nitrosodimethylamine	0.00	74	0	N.D.		
5) Aniline	0.00	93	0	N.D.		
7) Phenol	5.77	94	1482607	89.45	mg/l	97
8) Bis(2-Chloroethyl) Ether	0.00	93	0	N.D.		
9) 2-Chlorophenol	5.93	128	1388239	94.06	mg/l #	78
10) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
11) 1,4-Dichlorobenzene	6.12	146	1214177	80.88	mg/l #	90
12) Benzyl Alcohol	6.27	79	925	N.D.		
13) 1,2-Dichlorobenzene	6.32	146	1747	N.D.		
14) 2-Methylphenol	6.39	108	565	N.D.		
15) Bis(2-Chloroisopropyl) Eth	6.46	45	48	N.D.		
16) 3/4-Methylphenol	6.55	107	167	N.D.		
17) N-Nitroso-di-n-propylamine	6.56	70	686192	93.36	mg/l	82
18) Hexachloroethane	6.70	117	93	N.D.		
21) Nitrobenzene	0.00	77	0	N.D.		
22) Isophorone	6.85	82	1510	N.D.		
23) 2-Nitrophenol	7.08	139	744	N.D.		
24) 2,4-Dimethylphenol	0.00	107	0	N.D.		
25) Benzoic Acid	7.22	105	139	N.D.		
26) Bis(2-Chloroethoxy) Methan	7.20	93	39	N.D.		
27) 2,4-Dichlorophenol	7.37	162	1440	N.D.		
28) 1,2,4-Trichlorobenzene	7.43	180	1003428	85.14	mg/l	100
29) Naphthalene	7.51	128	735	N.D.		
30) 4-Chloroaniline	7.61	127	48	N.D.		
31) Hexachloro-1,3-Butadiene	0.00	225	0	N.D.		
32) 4-Chloro-3-Methylphenol	8.09	107	1037262	99.20	mg/l	99
33) 2-Methylnaphthalene	8.26	142	308	N.D.		
34) 1-Methylnaphthalene	8.43	142	82	N.D.		

(#) = qualifier out of range (m) = manual integration
03APR007.D 000331.M Wed Apr 05 09:27:17 2000

Data File : C:\HPCHEM\1\DATA\000403\03APR007.D

Vial: 7

Acq On : 3 Apr 2000 3:46 pm

Operator:

Sample : 8270W LCS 0004012

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 5 9:26 2000

Quant Results File: 000331.RES

Quant Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Mon Apr 03 15:17:42 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Hexachlorocyclopentadiene	0.00	237	0		N.D.	
37) 2,4,6-Trichlorophenol	0.00	196	0		N.D.	
38) 2,4,5-Trichlorophenol	0.00	196	0		N.D.	
39) 2-Chloronaphthalene	0.00	162	0		N.D.	
41) 2-Nitroaniline	0.00	65	0		N.D.	
42) Dimethyl Phthalate	9.16	163	396		N.D.	
43) Acenaphthylene	9.29	152	16791		N.D.	
44) 3-Nitroaniline	9.51	138	2202		N.D.	
45) Acenaphthene	9.51	153	2148295	96.67	mg/l	97
46) 2,4-Dinitrophenol	0.00	184	0		N.D.	
47) 4-Nitrophenol	9.61	139	552585	104.70	mg/l	96
48) Dibenzofuran	9.71	168	632		N.D.	
49) 2,4-Dinitrotoluene	9.71	165	883359	101.77	mg/l	92
50) 2,6-Dinitrotoluene	0.00	165	0		N.D.	
51) Diethyl Phthalate	9.95	149	1862		N.D.	
52) 4-Chlorophenyl-Phenyl EtHe	0.00	204	0		N.D.	
53) Fluorene	0.00	166	0		N.D.	
54) 4-Nitroaniline	0.00	138	0		N.D.	
56) Azobenzene	10.26	77	828		N.D.	
57) 4,6-Dinitro-2-Methylphenol	10.37	198	538		N.D.	
58) N-Nitrosodiphenylamine	0.00	169	0		N.D.	
60) 4-Bromophenyl-Phenyl Ether	0.00	248	0		N.D.	
61) Hexachlorobenzene	0.00	284	0		N.D.	
62) Pentachlorophenol	10.99	266	483955	111.60	mg/l #	77
63) Phenanthrene	11.16	178	284		N.D.	
64) Anthracene	0.00	178	0		N.D.	
65) Di-n-Butyl Phthalate	11.78	149	5897		N.D.	
66) Fluoranthene	12.52	202	945		N.D.	
67) Benzidine	0.00	184	0		N.D.	
69) Pyrene	12.81	202	3525823	81.62	mg/l #	99
71) Butyl Benzyl Phthalate	13.71	149	1003		N.D.	
72) 3,3'-Dichlorobenzidine	14.50	252	40		N.D.	
73) Benzo (a) Anthracene	14.59	228	3528		N.D.	
74) Bis(2-Ethylhexyl) Phthalat	14.60	149	4768		N.D.	
75) Chrysene	0.00	228	0		N.D.	
77) Di-n-Octyl Phthalate	15.82	149	54		N.D.	
78) Benzo (b) Fluoranthene	0.00	252	0		N.D.	
79) Benzo (k) Fluoranthene	0.00	252	0		N.D.	
80) Benzo (a) Pyrene	17.64	252	6993		N.D.	
81) Indeno (1,2,3-c,d) Pyrene	0.00	276	0		N.D.	
82) Dibenz (a,h) Anthracene	0.00	278	0		N.D.	
83) Benzo (g,h,i) Perylene	0.00	276	0		N.D.	

(#) = qualifier out of range (m) = manual integration

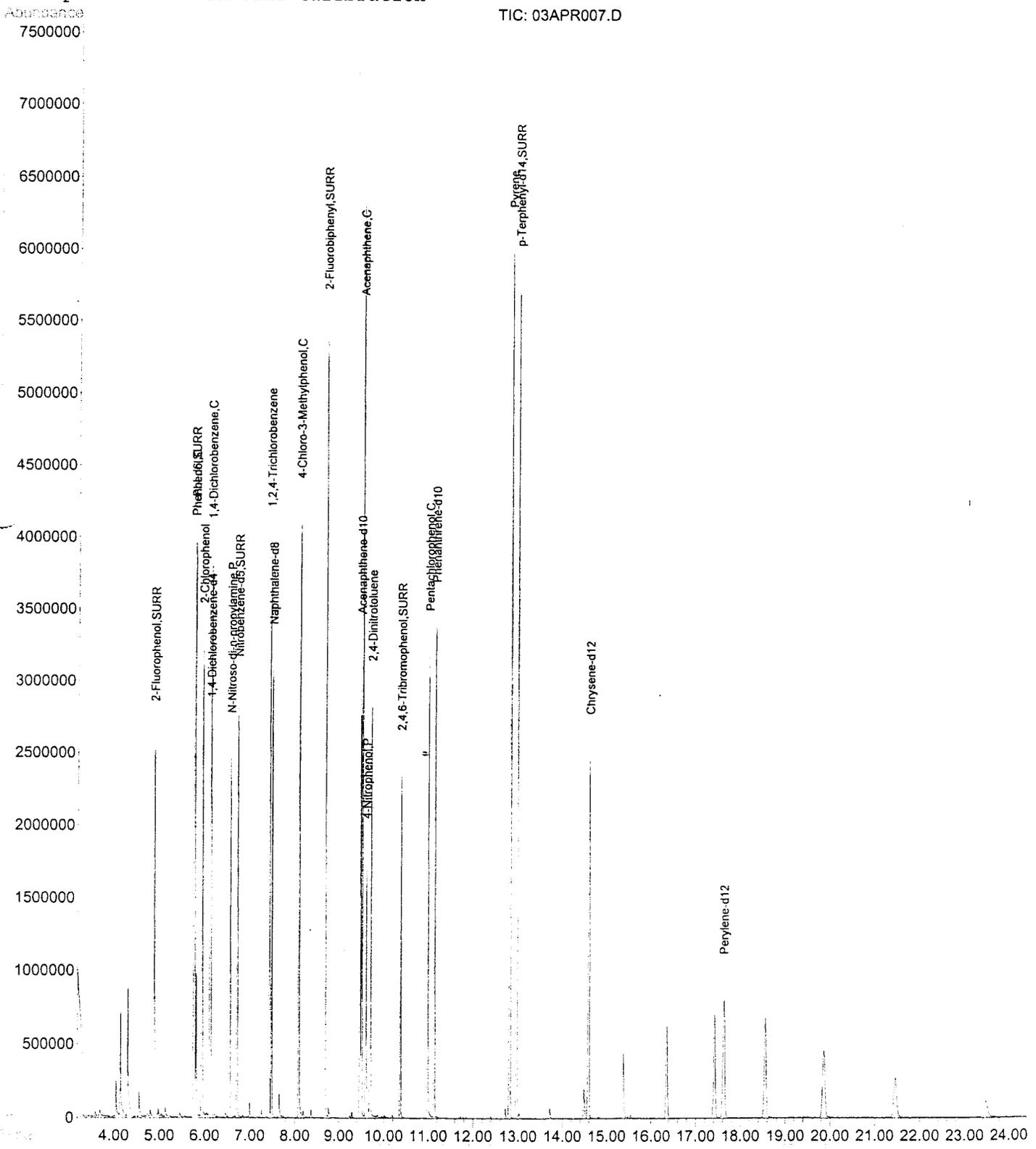
03APR007.D 000331.M Wed Apr 05 09:27:21 2000

Data File : C:\HPCHEM\1\DATA\000403\03APR007.D
Acq On : 3 Apr 2000 3:46 pm
Sample : 8270W LCS 0004012
Misc :
MS Integration Params: rteint.p
Quant Time: Apr 5 9:26 2000

Vial: 7
Operator:
Inst : GC/MS J
Multiplr: 1.00

Quant Results File: 000331.RES

Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Mon Apr 03 15:17:42 2000
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\000403\03APR008.D

Vial: 8

Acq On : 3 Apr 2000 4:22 pm

Operator:

Sample : 8270W LCSD 0004012

Inst : GC/MS J

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 5 9:31 2000

Quant Results File: 000331.RES

Quant Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Mon Apr 03 15:17:42 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	6.11	152	420365	40.00	mg/l	0.00
19) Naphthalene-d8	7.48	136	1473801	40.00	mg/l	-0.01
35) Acenaphthene-d10	9.47	164	898198	40.00	mg/l	-0.01
55) Phenanthrene-d10	11.14	188	1416251	40.00	mg/l	-0.02
68) Chrysene-d12	14.59	240	1337063	40.00	mg/l	-0.05
76) Perylene-d12	17.63	264	1142226	40.00	mg/l	-0.07

System Monitoring Compounds

4) 2-Fluorophenol	4.87	112	1345576	100.57	mg/l1	0.00
Spiked Amount	100.000		Recovery	=	100.57%	
6) Phenol-d6	5.75	99	1574300	102.48	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	102.48%	
20) Nitrobenzene-d5	6.72	82	1302286	108.64	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	108.64%	
40) 2-Fluorobiphenyl	8.69	172	2129160	86.97	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	86.97%	
59) 2,4,6-Tribromophenol	10.37	330	334596	115.55	mg/l	-0.03
Spiked Amount	100.000		Recovery	=	115.55%	
70) p-Terphenyl-d14	12.97	244	2953062	101.23	mg/l	-0.01
Spiked Amount	100.000		Recovery	=	101.23%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Pyridine	0.00	52	0		N.D.	
3) N-Nitrosodimethylamine	0.00	74	0		N.D.	
5) Aniline	5.80	93	108		N.D.	
7) Phenol	5.77	94	1573156	99.18	mg/l	97
8) Bis(2-Chloroethyl) Ether	0.00	93	0		N.D.	
9) 2-Chlorophenol	5.93	128	1464894	103.73	mg/l #	78
10) 1,3-Dichlorobenzene	0.00	146	0		N.D.	
11) 1,4-Dichlorobenzene	6.12	146	1265402	88.09	mg/l #	90
12) Benzyl Alcohol	6.26	79	1424		N.D.	
13) 1,2-Dichlorobenzene	6.32	146	1679		N.D.	
14) 2-Methylphenol	6.39	108	326		N.D.	
15) Bis(2-Chloroisopropyl) Eth	6.35	45	41		N.D.	
16) 3/4-Methylphenol	6.55	107	158		N.D.	
17) N-Nitroso-di-n-propylamine	6.56	70	733130	104.23	mg/l	82
18) Hexachloroethane	0.00	117	0		N.D.	
21) Nitrobenzene	0.00	77	0		N.D.	
22) Isophorone	6.86	82	2122		N.D.	
23) 2-Nitrophenol	7.09	139	609		N.D.	
24) 2,4-Dimethylphenol	0.00	107	0		N.D.	
25) Benzoic Acid	7.21	105	90		N.D.	
26) Bis(2-Chloroethoxy) Methan	0.00	93	0		N.D.	
27) 2,4-Dichlorophenol	7.36	162	1288		N.D.	
28) 1,2,4-Trichlorobenzene	7.43	180	1060131	94.11	mg/l	100
29) Naphthalene	7.50	128	568		N.D.	
30) 4-Chloroaniline	7.61	127	41		N.D.	
31) Hexachloro-1,3-Butadiene	0.00	225	0		N.D.	
32) 4-Chloro-3-Methylphenol	8.09	107	1101391	110.21	mg/l	99
33) 2-Methylnaphthalene	8.27	142	242		N.D.	
34) 1-Methylnaphthalene	8.39	142	756		N.D.	

(#) = qualifier out of range (m) = manual integration

03APR008.D 000331.M

Wed Apr 05 09:32:58 2000

Data File : C:\HPCHEM\1\DATA\000403\03APR008.D
Acq On : 3 Apr 2000 4:22 pm
Sample : 8270W LCSD 0004012
Misc :

Vial: 8
Operator:
Inst : GC/MS J
Multiplr: 1.00

MS Integration Params: rteint.p
Quant Time: Apr 5 9:31 2000

Quant Results File: 000331.RES

nt Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Mon Apr 03 15:17:42 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Hexachlorocyclopentadiene	0.00	237	0		N.D.	
37) 2,4,6-Trichlorophenol	0.00	196	0		N.D.	
38) 2,4,5-Trichlorophenol	0.00	196	0		N.D.	
39) 2-Chloronaphthalene	0.00	162	0		N.D.	
41) 2-Nitroaniline	0.00	65	0		N.D.	
42) Dimethyl Phthalate	9.17	163	105		N.D.	
43) Acenaphthylene	9.29	152	15409		N.D.	
44) 3-Nitroaniline	9.51	138	2231		N.D.	
45) Acenaphthene	9.51	153	2291370	105.62	mg/l #	86
46) 2,4-Dinitrophenol	0.00	184	0		N.D.	
47) 4-Nitrophenol	9.61	139	625188	121.34	mg/l	96
48) Dibenzofuran	9.70	168	460		N.D.	
49) 2,4-Dinitrotoluene	9.71	165	946568	111.71	mg/l	92
50) 2,6-Dinitrotoluene	0.00	165	0		N.D.	
51) Diethyl Phthalate	9.96	149	1450		N.D.	
52) 4-Chlorophenyl-Phenyl Ethe	0.00	204	0		N.D.	
53) Fluorene	0.00	166	0		N.D.	
54) 4-Nitroaniline	0.00	138	0		N.D.	
56) Azobenzene	10.26	77	605		N.D.	
57) 4,6-Dinitro-2-Methylphenol	0.00	198	0		N.D.	
58) N-Nitrosodiphenylamine	0.00	169	0		N.D.	
59) 4-Bromophenyl-Phenyl Ether	0.00	248	0		N.D.	
61) Hexachlorobenzene	0.00	284	0		N.D.	
62) Pentachlorophenol	10.99	266	514715	123.84	mg/l	98
63) Phenanthrene	11.16	178	165		N.D.	
64) Anthracene	0.00	178	0		N.D.	
65) Di-n-Butyl Phthalate	11.78	149	4802		N.D.	
66) Fluoranthene	12.52	202	1010		N.D.	
67) Benzidine	0.00	184	0		N.D.	
69) Pyrene	12.81	202	4118865	99.30	mg/l	100
71) Butyl Benzyl Phthalate	13.63	149	1168		N.D.	
72) 3,3'-Dichlorobenzidine	0.00	252	0		N.D.	
73) Benzo (a) Anthracene	14.59	228	3076		N.D.	
74) Bis(2-Ethylhexyl) Phthalat	14.59	149	10133		N.D.	
75) Chrysene	0.00	228	0		N.D.	
77) Di-n-Octyl Phthalate	0.00	149	0		N.D.	
78) Benzo (b) Fluoranthene	0.00	252	0		N.D.	
79) Benzo (k) Fluoranthene	0.00	252	0		N.D.	
80) Benzo (a) Pyrene	17.60	252	865		N.D.	
81) Indeno (1,2,3-c,d) Pyrene	0.00	276	0		N.D.	
82) Dibenz (a,h) Anthracene	0.00	278	0		N.D.	
83) Benzo (g,h,i) Perylene	0.00	276	0		N.D.	

(#) = qualifier out of range (m) = manual integration
03APR008.D 000331.M Wed Apr 05 09:33:01 2000

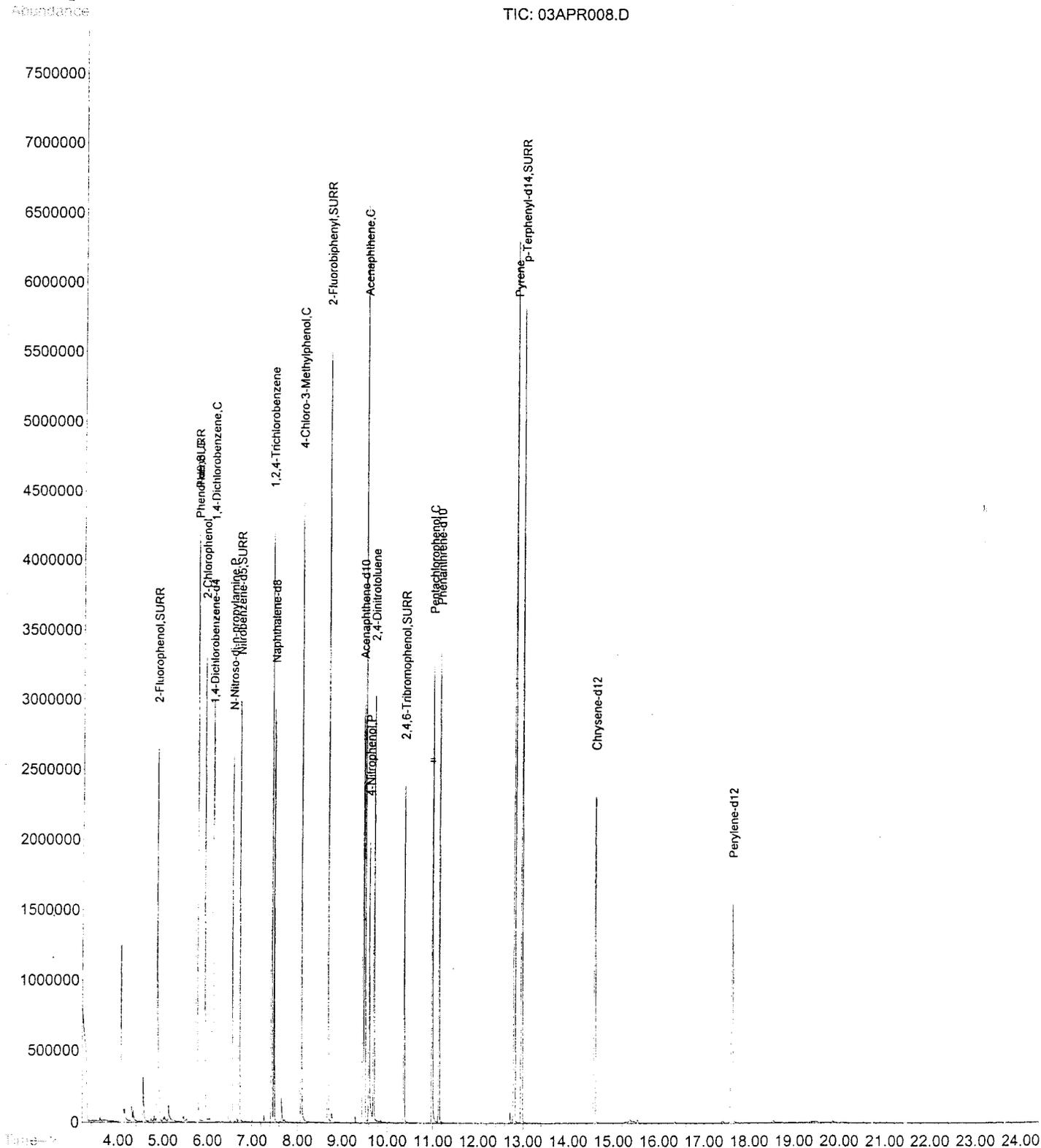
Data File : C:\HPCHEM\1\DATA\000403\03APR008.D
 Acq On : 3 Apr 2000 4:22 pm
 Sample : 8270W LCSD 0004012
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 5 9:31 2000

Vial: 8
 Operator:
 Inst : GC/MS J
 Multiplr: 1.00

Quant Results File: 000331.RES

Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)
 Title : BNA 8270/625 CALIBRATION
 Last Update : Mon Apr 03 15:17:42 2000
 Response via : Initial Calibration

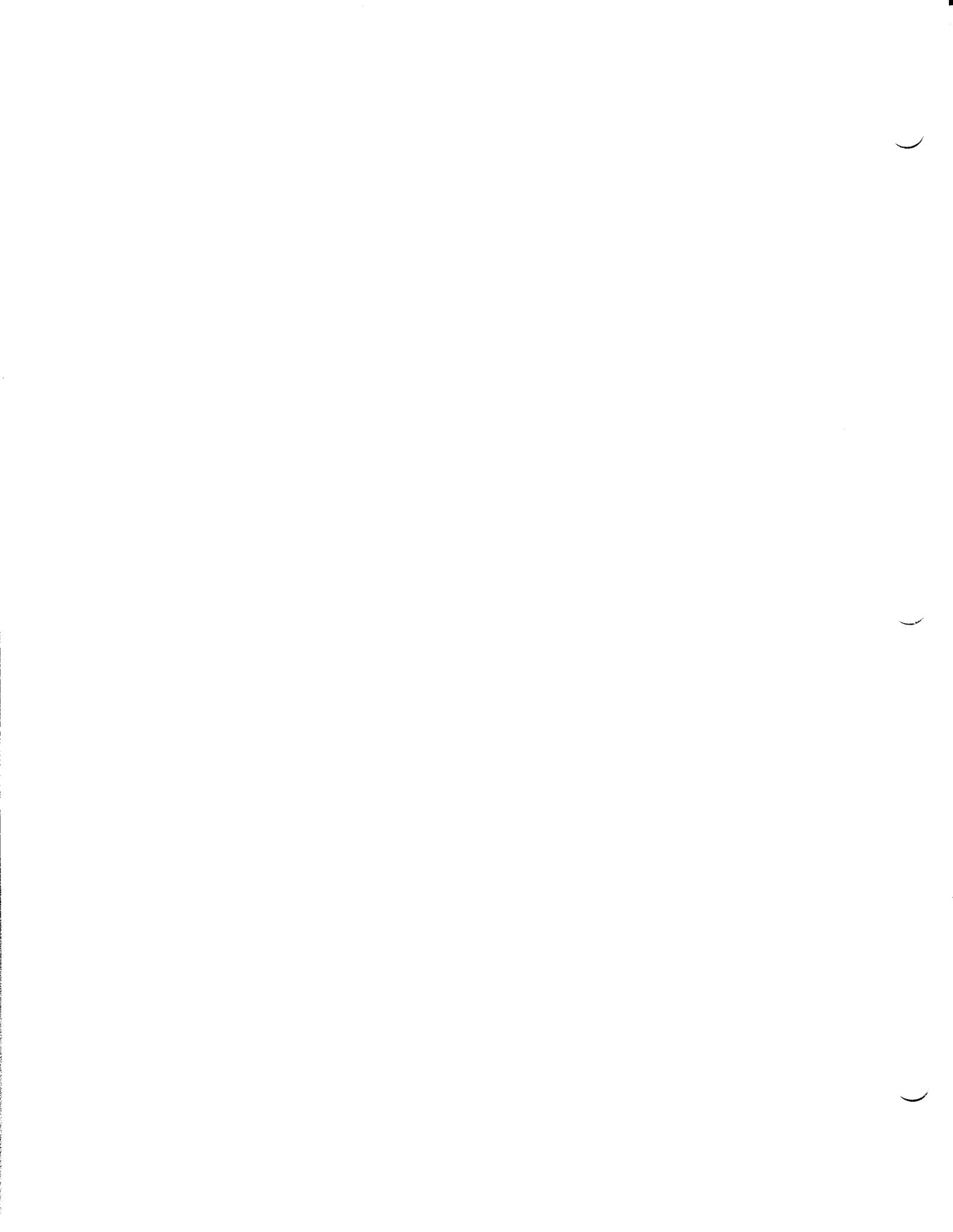
TIC: 03APR008.D





Method Blank QC Data

Geomatrix Consultants



Data File : C:\HPCHEM\1\DATA\000403\03APR006.D Vial: 6
 Acq On : 3 Apr 2000 3:11 pm Operator:
 Sample : 8270W BLK 0004012 Inst : GC/MS J
 Misc : Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 4 13:01 2000

Quant Results File: 000331.RES

Quant Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)
 Title : BNA 8270/625 CALIBRATION
 Last Update : Mon Apr 03 15:17:42 2000
 Response via : Initial Calibration
 DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	6.10	152	449927	40.00	mg/l	-0.01
19) Naphthalene-d8	7.48	136	1561091	40.00	mg/l	-0.02
35) Acenaphthene-d10	9.47	164	949764	40.00	mg/l	-0.02
55) Phenanthrene-d10	11.14	188	1530191	40.00	mg/l	-0.02
68) Chrysene-d12	14.59	240	1503867	40.00	mg/l	-0.05
76) Perylene-d12	17.63	264	1336432	40.00	mg/l	-0.07

System Monitoring Compounds

4) 2-Fluorophenol	4.86	112	1237572	86.42	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	86.42%	
6) Phenol-d6	5.74	99	1481513	90.11	mg/l	-0.03
Spiked Amount	100.000		Recovery	=	90.11%	
20) Nitrobenzene-d5	6.72	82	1194198	94.05	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	94.05%	
40) 2-Fluorobiphenyl	8.69	172	2070174	79.97	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	79.97%	
59) 2,4,6-Tribromophenol	10.37	330	305082	97.51	mg/l	-0.03
Spiked Amount	100.000		Recovery	=	97.51%	
70) p-Terphenyl-d14	12.96	244	2665088	81.22	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	81.22%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Pyridine	0.00	52	0		N.D.	
3) N-Nitrosodimethylamine	0.00	74	0		N.D.	
5) Aniline	0.00	93	0		N.D.	
7) Phenol	5.77	94	159		N.D.	
8) Bis(2-Chloroethyl) Ether	0.00	93	0		N.D.	
9) 2-Chlorophenol	5.93	128	108		N.D.	
10) 1,3-Dichlorobenzene	0.00	146	0		N.D.	
11) 1,4-Dichlorobenzene	0.00	146	0		N.D.	
12) Benzyl Alcohol	6.25	79	2018		N.D.	
13) 1,2-Dichlorobenzene	0.00	146	0		N.D.	
14) 2-Methylphenol	0.00	108	0		N.D.	
15) Bis(2-Chloroisopropyl) Eth	6.39	45	40		N.D.	
16) 3/4-Methylphenol	0.00	107	0		N.D.	
17) N-Nitroso-di-n-propylamine	6.61	70	40		N.D.	
18) Hexachloroethane	0.00	117	0		N.D.	
21) Nitrobenzene	0.00	77	0		N.D.	
22) Isophorone	6.86	82	3602		N.D.	
23) 2-Nitrophenol	0.00	139	0		N.D.	
24) 2,4-Dimethylphenol	0.00	107	0		N.D.	
25) Benzoic Acid	7.22	105	98		N.D.	
26) Bis(2-Chloroethoxy) Methan	0.00	93	0		N.D.	
27) 2,4-Dichlorophenol	0.00	162	0		N.D.	
28) 1,2,4-Trichlorobenzene	0.00	180	0		N.D.	
29) Naphthalene	7.50	128	456		N.D.	
30) 4-Chloroaniline	0.00	127	0		N.D.	
31) Hexachloro-1,3-Butadiene	0.00	225	0		N.D.	
2) 4-Chloro-3-Methylphenol	0.00	107	0		N.D.	
3) 2-Methylnaphthalene	0.00	142	0		N.D.	
34) 1-Methylnaphthalene	0.00	142	0		N.D.	

(#)= qualifier out of range (m) = manual integration

03APR006.D 000331.M Wed Apr 05 09:20:39 2000

Data File : C:\HPCHEM\1\DATA\000403\03APR006.D Vial: 6
 Acq On : 3 Apr 2000 3:11 pm Operator:
 Sample : 8270W BLK 0004012 Inst : GC/MS J
 Misc : Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Apr 4 13:01 2000 Quant Results File: 000331.RES

Quant Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)
 Title : BNA 8270/625 CALIBRATION
 Last Update : Mon Apr 03 15:17:42 2000
 Response via : Initial Calibration
 DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Hexachlorocyclopentadiene	0.00	237	0		N.D.	
37) 2,4,6-Trichlorophenol	0.00	196	0		N.D.	
38) 2,4,5-Trichlorophenol	0.00	196	0		N.D.	
39) 2-Chloronaphthalene	0.00	162	0		N.D.	
41) 2-Nitroaniline	0.00	65	0		N.D.	
42) Dimethyl Phthalate	9.16	163	221		N.D.	
43) Acenaphthylene	0.00	152	0		N.D.	
44) 3-Nitroaniline	0.00	138	0		N.D.	
45) Acenaphthene	0.00	153	0		N.D.	
46) 2,4-Dinitrophenol	0.00	184	0		N.D.	
47) 4-Nitrophenol	0.00	139	0		N.D.	
48) Dibenzofuran	0.00	168	0		N.D.	
49) 2,4-Dinitrotoluene	0.00	165	0		N.D.	
50) 2,6-Dinitrotoluene	9.24	165	43		N.D.	
51) Diethyl Phthalate	9.95	149	2171		N.D.	
52) 4-Chlorophenyl-Phenyl Ethe	0.00	204	0		N.D.	
53) Fluorene	0.00	166	0		N.D.	
54) 4-Nitroaniline	0.00	138	0		N.D.	
56) Azobenzene	10.25	77	652		N.D.	
57) 4,6-Dinitro-2-Methylphenol	10.36	198	371		N.D.	
58) N-Nitrosodiphenylamine	0.00	169	0		N.D.	
60) 4-Bromophenyl-Phenyl Ether	0.00	248	0		N.D.	
61) Hexachlorobenzene	0.00	284	0		N.D.	
62) Pentachlorophenol	0.00	266	0		N.D.	
63) Phenanthrene	11.16	178	86		N.D.	
64) Anthracene	0.00	178	0		N.D.	
65) Di-n-Butyl Phthalate	11.78	149	8928		N.D.	
66) Fluoranthene	12.52	202	54		N.D.	
67) Benzidine	12.65	184	44		N.D.	
69) Pyrene	12.96	202	6120		N.D.	
71) Butyl Benzyl Phthalate	13.63	149	2871		N.D.	
72) 3,3'-Dichlorobenzidine	14.52	252	39		N.D.	
73) Benzo (a) Anthracene	14.59	228	3681		N.D.	
74) Bis(2-Ethylhexyl) Phthalat	14.59	149	2505		N.D.	
75) Chrysene	0.00	228	0		N.D.	
77) Di-n-Octyl Phthalate	15.87	149	222		N.D.	
78) Benzo (b) Fluoranthene	0.00	252	0		N.D.	
79) Benzo (k) Fluoranthene	0.00	252	0		N.D.	
80) Benzo (a) Pyrene	17.61	252	1797		N.D.	
81) Indeno (1,2,3-c,d) Pyrene	0.00	276	0		N.D.	
82) Dibenz (a,h) Anthracene	0.00	278	0		N.D.	
83) Benzo (g,h,i) Perylene	0.00	276	0		N.D.	

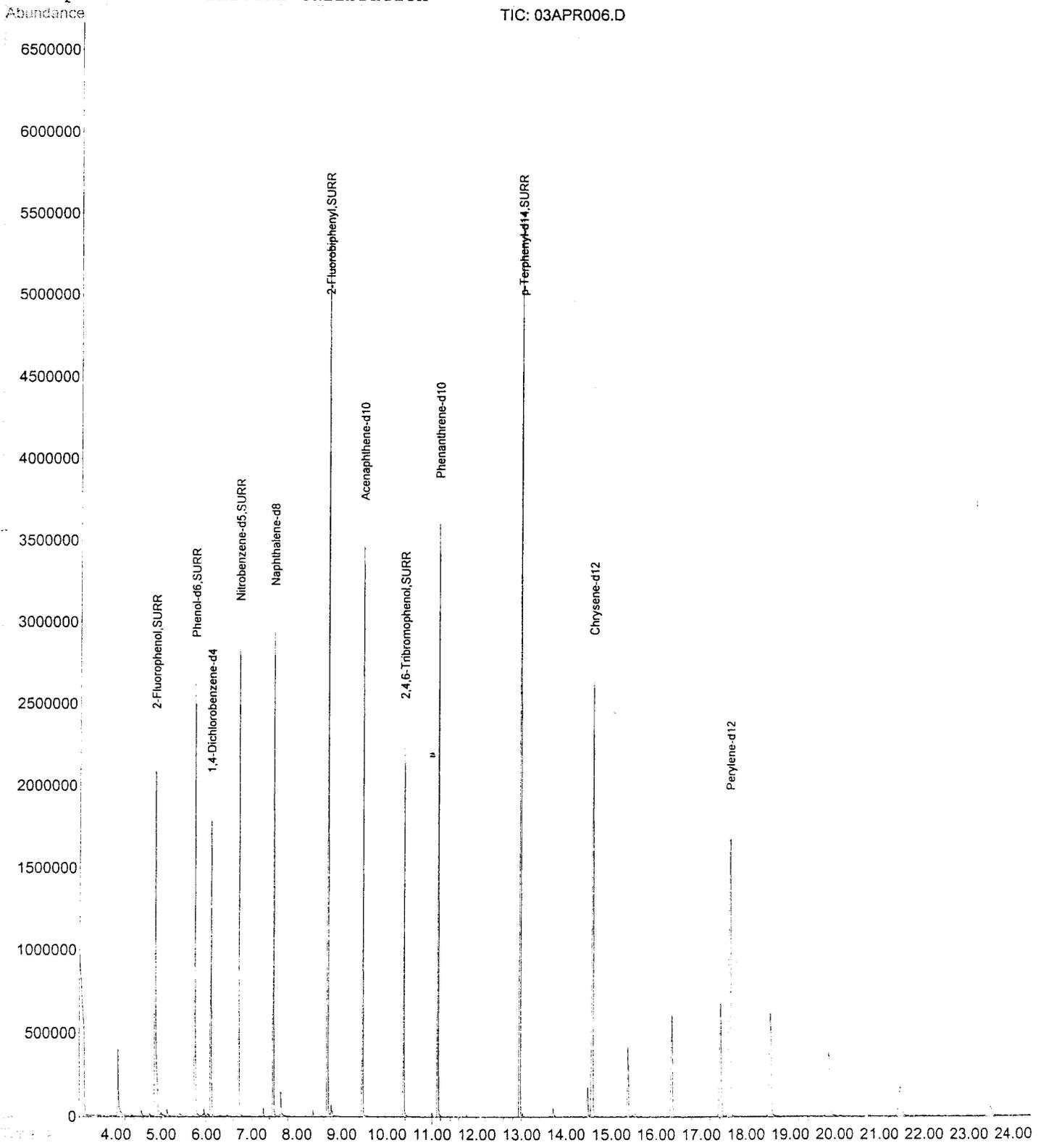
(#) = qualifier out of range (m) = manual integration
 03APR006.D 000331.M Wed Apr 05 09:20:43 2000

Data File : C:\HPCHEM\1\DATA\000403\03APR006.D
Acq On : 3 Apr 2000 3:11 pm
Sample : 8270W BLK 0004012
Misc :
MS Integration Params: rteint.p
Quant Time: Apr 4 13:01 2000

Vial: 6
Operator:
Inst : GC/MS J
Multiplr: 1.00

Quant Results File: 000331.RES

Method : C:\HPCHEM\1\METHODS\000331.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Mon Apr 03 15:17:42 2000
Response via : Initial Calibration





Extraction Log

Geomatrix Consultants



PRECLEANED CERTIFIED™

Certificate of Compliance

The enclosed containers have been chemically cleaned by using the specified USEPA cleaning procedures for low level chemical analysis. ESS containers meet and exceed the required detection limits established by the USEPA in SPECIFICATIONS AND GUIDANCE FOR CONTAMINANT-FREE SAMPLE CONTAINERS.

EXTRACTABLE ORGANIC COMPOUNDS (Procedure 1)

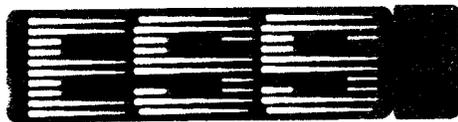
Analyte	Quantitation Limit (ug/L)							
Pesticides / PCBs	Alpha-BHC	< 0.01	Aroclor-1232	< 0.20	Hexachlorobutadiene	< 5	4-Bromophenyl-Phenylether	< 5
	Beta-BHC	< 0.01	Aroclor-1242	< 0.20	4-Chloro-3-Methylphenol	< 5	Hexachlorobenzene	< 5
	Delta-BHC	< 0.01	Aroclor-1248	< 0.20	2-Methylnaphthalene	< 5	Pentachlorophenol	< 20
	Gamma-BHC (Lindane)	< 0.01	Aroclor-1254	< 0.20	Hexachlorocyclopentadiene	< 5	Phenanthrene	< 5
	Heptachlor	< 0.01	Aroclor-1260	< 0.20	2,4,6-Trichlorophenol	< 5	Anthracene	< 5
	Aldrin	< 0.01	Aroclor-1262	< 0.20	2,4,5-Trichlorophenol	< 20	Di-n-Butylphthalate	< 5
	Heptachlor Epoxide	< 0.01	Aroclor-1268	< 0.20	1,2-Diphenylhydrazene	< 5	Fluoroanthene	< 5
	Endosulfan I	< 0.01			Carbazole	< 5	Pyrene	< 5
	Dieldrin	< 0.02	Semivolatiles		2-Chloronaphthalene	< 5	Butylbenzylphthalate	< 5
	4,4'-DDE	< 0.02	Phenol	< 5	2-Nitroaniline	< 20	1,2'-Dichlorobenzene	< 5
	Endrin	< 0.02	bis-(2-Chloroethyl) ether	< 5	Dimethylphthalate	< 5	1,3'-Dichlorobenzene	< 5
	Endosulfan II	< 0.02	bis-(2-Chloroisopropyl) ether	< 5	Acenaphthylene	< 5	1,4'-Dichlorobenzene	< 5
	4,4'-DDD	< 0.02	2-Chlorophenol	< 5	2,6-Dinitrotoluene	< 5	3,3'-Dichlorobenzidine	< 5
	Endosulfan Sulfate	< 0.02	2-Methylphenol	< 5	3-Nitroaniline	< 20	Benzo[a]anthracene	< 5
	4,4'-DDT	< 0.02	2,2'-Oxybis-(1-Chloropropane)	< 5	Acenaphthene	< 5	Chrysene	< 5
	Methoxychlor	< 0.10	4-Methylphenol	< 5	2,4-Dinitrophenol	< 20	bis-(2-Ethylhexyl) Phthalate	< 5
	Endrin Ketone	< 0.02	N-Nitroso-di-n-propylamine	< 5	4-Nitrophenol	< 20	Di-n-Octylphthalate	< 5
	Endrin Aldehyde	< 0.02	Hexachloroethane	< 5	Dibenzofuran	< 5	Benzo[b]fluoranthene	< 5
	Alpha-Chlordane	< 0.01	Nitrobenzene	< 5	2,4-Dinitrotoluene	< 5	Benzo[k]fluoranthene	< 5
	Gamma-Chlordane	< 0.01	Isophorone	< 5	Diethylphthalate	< 5	Benzo[a]pyrene	< 5
Toxaphene	< 1.0	2-Nitrophenol	< 5	4-Chlorophenyl-Phenylether	< 5	Indeno(1,2,3-cd)pyrene	< 5	
Aroclor-1016	< 0.20	2,4-Dimethylphenol	< 5	Flourene	< 5	Dibenzo[a,h]anthracene	< 5	
Aroclor-1221	< 0.20	bis-(2-Chloroethoxy) methane	< 5	4-Nitroaniline	< 20	Benzo[g,h,i]perylene	< 5	
		2,4-Dichlorophenol	< 5	4,6-Dinitro-2-Methylphenol	< 20	Benzoic Acid	< 20	
		1,2,4-Trichlorobenzene	< 5	N-Nitrosodiphenylamine	< 5	Benzyl Alcohol	< 5	
		Naphthalene	< 5	N-Nitrosodimethylamine	< 5			
		4-Chloroaniline	< 5					

PURGEABLE VOLATILE ORGANIC COMPOUNDS (Procedure 2)

Analyte	Quantitation Limit (ug/L)						
Acetone	< 5	2-Chlorotoluene	< 1	1,3-Dichloropropane	< 1	1,2,3-Trichlorobenzene	< 1
Benzene	< 1	4-Chlorotoluene	< 1	2,2-Dichloropropane	< 1	1,2,4-Trichlorobenzene	< 1
Bromoform	< 1	2,4-Chlorotoluene	< 1	1,1-Dichloropropene	< 1	1,1,1-Trichloroethane	< 1
Bromobenzene	< 1	Chloroform	< 1	cis-1,3-Dichloropropene	< 1	1,1,2-Trichloroethane	< 1
Bromochloromethane	< 1	Dibromomethane	< 1	trans-1,3-Dichloropropene	< 1	Trichloroethene	< 1
Bromodichloromethane	< 1	1,2-Diortho 3-Chloropropane	< 1	Ethylbenzene	< 5	Trichlorofluoromethane	< 1
Bromomethane	< 1	Dibromochloromethane	< 1	2-Hexanone	< 5	Trichlorotrifluoroethane	< 1
z-Butylbenzene	< 5	1,2-Dibromoethane (EDB)	< 1	Hexachlorobutadiene	< 1	1,2,3-Trichloropropane	< 1
n-Butylbenzene	< 1	1,2-Dichlorobenzene	< 1	Isopropylbenzene	< 1	1,2,3-Trimethylbenzene	< 1
sec-Butylbenzene	< 1	1,3-Dichlorobenzene	< 1	4-Isopropyltoluene	< 1	1,2,4-Trimethylbenzene	< 1
tert-Butylbenzene	< 1	1,4-Dichlorobenzene	< 1	Methylene Chloride	< 2	1,3,5-Trimethylbenzene	< 1
Carbon Tetrachloride	< 1	Dichlorodifluoromethane	< 1	Naphthalene	< 1	Vinyl Acetate	< 5
Carbon Disulfide	< 1	1,1-Dichloroethane	< 1	Propylbenzene	< 1	Vinyl Chloride	< 1
Chlorobenzene	< 1	1,2-Dichloroethane	< 1	Styrene	< 1	Methyl-Tert-Butyl-Ether	< 1
Chloroethane	< 1	1,1-Dichloroethene	< 1	1,1,1,2-Tetrachloroethane	< 1	4-Methyl-2-pentanone	< 5
Chloromethane	< 1	cis-1,2-Dichloroethene	< 1	1,1,2,2-Tetrachloroethane	< 1	o-xylene	< 1
		trans-1,2-Dichloroethene	< 1	Tetrachloroethene	< 1	m-xylene (1)	< 1
		1,2-Dichloropropane	< 1	Toluene	< 1	p-xylene (1)	< 1

METALS, CYANIDE, & SULFIDE COMPOUNDS (Procedure 3)

Analyte	Detection Limit (ug/L)						
Aluminum	< 80	Cadmium	< 1	Manganese	< 10	Thallium	< 5
Antimony	< 5	Calcium	< 500	Mercury	< 0.2	Vanadium	< 10
Arsenic	< 2	Calcium (HDPE)	< 100	Nickel	< 20	Zinc	< 10
Barium	< 20	Chromium	< 10	Potassium	< 750	Zinc (Amber HDPE)	< 500
Barium (Amber HDPE)	< 50	Cobalt	< 10	Potassium (HDPE)	< 100	Cyanide	< 10
Beryllium	< 0.5	Copper	< 10	Selenium	< 2	Flouride	< 200
		Iron	< 50	Silver	< 5	Nitrate+Nitrite	< 100
		Lead	< 2	Sodium	< 500		
		Magnesium	< 100	Sodium (HDPE)	< 100		



ENVIRONMENTAL SAMPLING SUPPLY

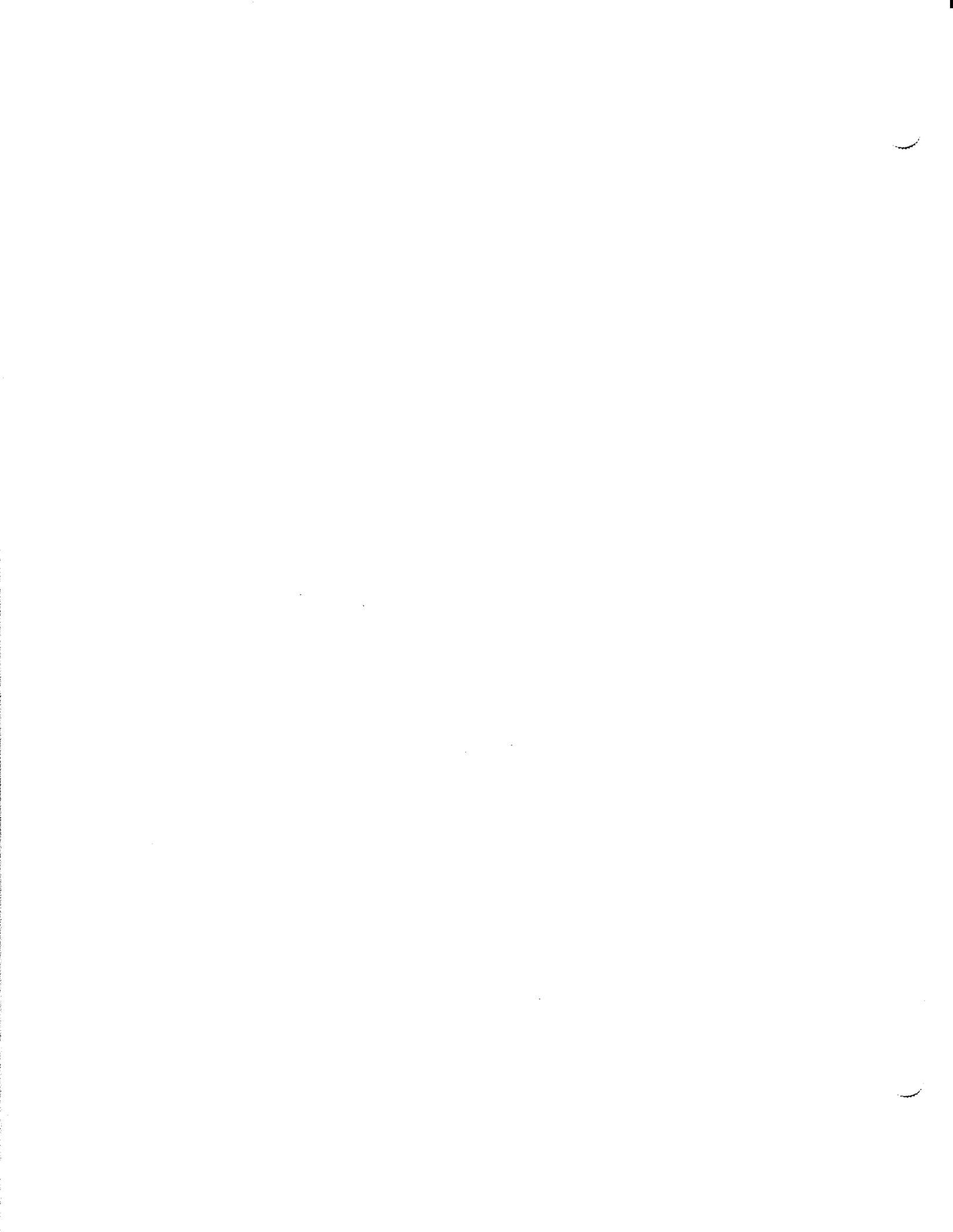
Printed on recycled paper with soy inks

"We sell experience with every container."

Matt Macy
 Matt Macy-Vice President, ESS, Inc.
 Quality Assurance Manager

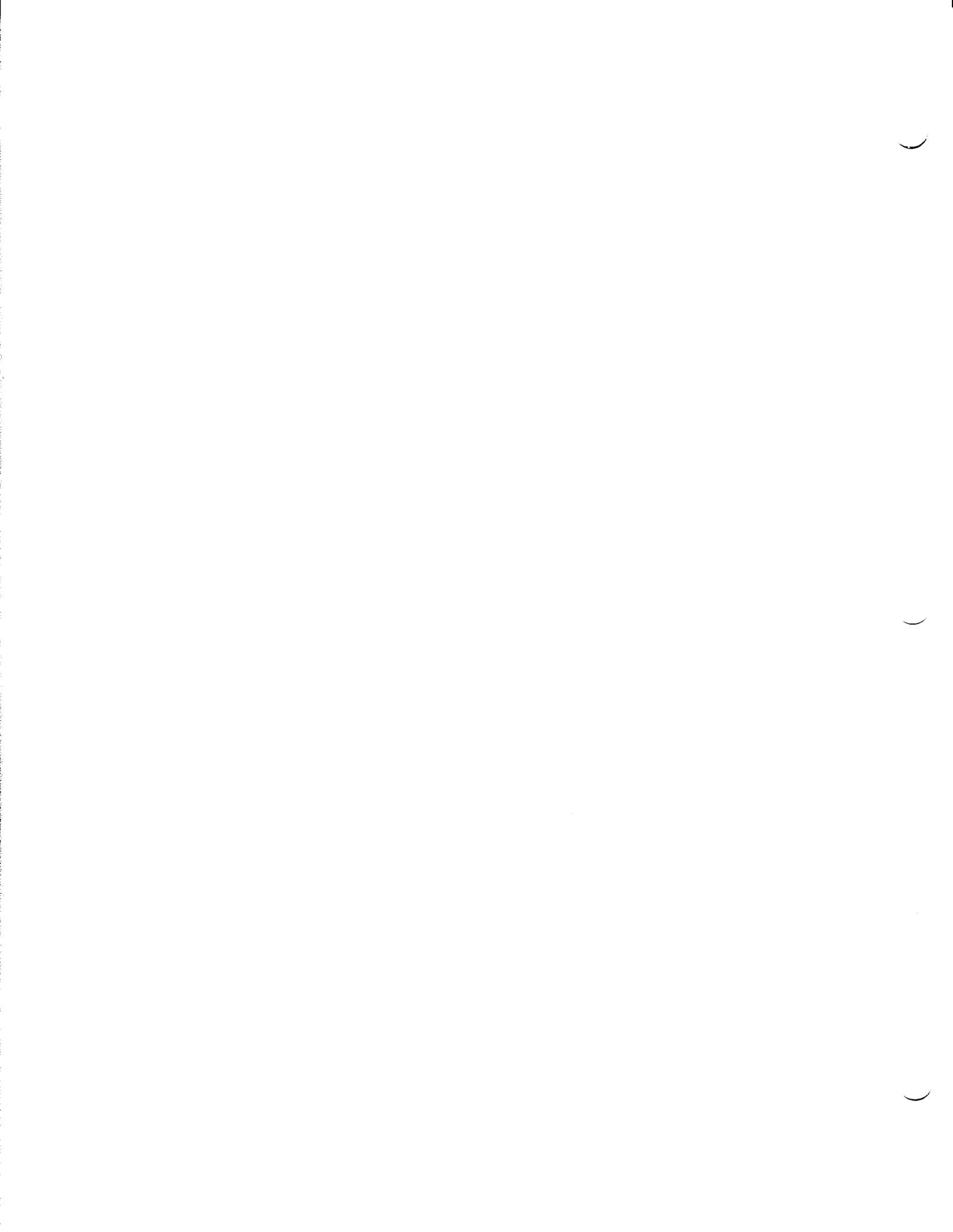
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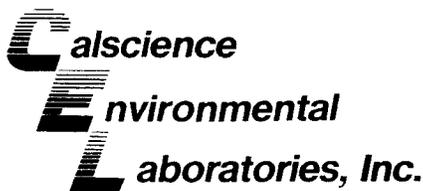
For information on our
 cleaning & monitoring
 procedures please call:
800-233-8425





Geomatrix Consultants





April 19, 2000
S0004189

Duane Paul
Geomatrix Consultants, Inc.
330 West Bay Street, Suite 140
Costa Mesa, CA 92627

Subject: Palos Verdes Shelf Superfund Investigation
A-2 & A-3 Borrow Areas
Calscience Work Order No. 00-03-1139

Dear Mr. Paul:

Calscience Environmental Laboratories, Inc. (Calscience) is pleased to submit the final report for the subject project. All testing was performed in accordance with the project specific Sampling and Analysis Plan, including the Quality Assurance/Quality Control (QA/QC) reviews. Presented below a narrative of the unique features or anomalies encountered as part of the analysis of the marine sediment samples.

Sample Receipt

Eleven individual sediment samples (and one temperature blank) were received as part of this Work Order on March 30, 2000. The samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. All samples were intact upon arrival. The temperature of the ice-chest was measured upon arrival in the laboratory and was within acceptable limits (<4.0°C). The samples were logged into the Laboratory Information Management System (LIMS), given a laboratory identification number, and stored in refrigeration units pending analysis.

As instructed, ten of the samples were composited into two individual samples for analysis. Specifically, the five samples labeled VC00-A3-05 were composited into one sample, and the five samples labeled VC00-A3-07 were composited into a second sample. A replicate sample of the composite VC00-A3-05 was also collected for analysis.

Additional sediment samples were received by the laboratory on March 29 and April 1, 2000. All of these samples were logged in and archived in refrigeration units.

Holding Times

All analytical holding time requirements were met.

Detection/Quantitation Limits

All reporting limits (quantitation limits) met the Project – Suggested Detection Limits (dry weight) listed in Table 3-4 of the Sampling and Analysis Plan, as well as the Laboratory Reporting Limits (dry weight) listed in Table 3-1 (Sediment Quality Guideline Values) of the Plan. J flags (estimated values) were reported in instances where an analyte was detected at a concentration below the reporting limit but above the method detection limit.

Blanks

Concentrations of target analytes in the method blanks were found to be below reporting limits for all analyses.

Initial and Continuing Calibration

Initial and continuing calibration criteria for respective analyses were met. Frequency criteria for initial and continuing calibration verifications for respective analyses were also met.

Surrogate Recoveries

Surrogate recoveries for all samples were within acceptable control limits (EPA CLP) for the applicable methods.

Laboratory Duplicates and MS/MSDs

Matrix spike (MS) and matrix spike duplicate (MSD) analyses were performed on a project sample, at the required frequencies. All recoveries were within acceptable limits, with the exception of the metals analysis by EPA 6020. The MS/MSD recoveries for antimony, arsenic, copper, and zinc were out-of-control low based on the control limit criteria established in the Sampling and Analysis Plan. Post digestion spike and spike duplicate (PDS/PDSD) recovery data also shows arsenic, copper, and zinc below control limits. However, the LCS recoveries were within control limits, demonstrating a matrix interference effect. Therefore the data was released with no further corrective action.

With regard to duplicate analyses, the RPD values are all within the established control limits for all tests.

Precision and Accuracy

With regard to precision, RPD values for all MS/MSD concentrations, and all duplicate analyses, met the acceptance criteria. For accuracy, all MS/MSD percent recoveries and surrogate recoveries were within acceptable control criteria, with the exception of certain EPA 6020 metals. This has been described above.

Representativeness and Comparability

Upon review of the sample data, the data appears to be representative of the sediments being investigated. Data from previous studies of sediments from the same area seems to match the data derived from this study. In addition, the data for the replicate samples compare favorably (all within 20%).

Completeness

With regard to completeness, it appears that all of the data presented is usable.

Please contact the undersigned if there are any questions regarding this report.

Sincerely,



Calscience Environmental
Laboratories, Inc.
Robert J. Stearns
Director

RJS:rjs

Enc.

Geomatrix Consultants, Inc.

A-2 & A-3 Borrow Areas, Palos Verdes Shelf Superfund Investigation

Summary Data Sheet

(CalScience Work Order: 00-03-1139)

Parameter	Method	VC00-A3-05-Comp		VC00-A3-05-Comp Rep		VC00-A3-07-Comp	
		wet wt.	dry wt.	wet wt.	dry wt.	wet wt.	dry wt.
Physical/Conventional Tests							
Total Percent Solids, %	ASTM D-2216	82.3	100	81.9	100	81.3	100
Total Organic Carbon, %	EPA 9060	0.016	0.019	0.017	0.021	0.016	0.020
Total Sulfide, mg/kg	EPA 376.2M	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Oil & Grease, mg/kg	EPA 413.2M	7.5	9.1	9.0	11	8.0	9.8
TRPH, mg/kg	EPA 418.1M	6.3	7.7	6.8	8.3	7.5	9.2
Total Volatile Solids, %	EPA 160.4	0.89	1.08	0.82	1.0	0.8	1.0
pH, pH units	EPA 9045B	8.32	NA	8.41	NA	8.28	NA
Ammonia-N, mg/kg	EPA 350.2M	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Pesticides, mg/kg							
p,p'-DDD	EPA 8081A	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002
p,p'-DDE	EPA 8081A	ND<0.0007J	ND<0.0008J	ND<0.0007J	ND<0.0008J	ND<0.0008J	ND<0.001J
p,p'-DDT	EPA 8081A	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Aldrin	EPA 8081A	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Chlordane	EPA 8081A	ND<0.020	ND<0.024	ND<0.020	ND<0.024	ND<0.020	ND<0.024
Dieldrin	EPA 8081A	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Heptachlor	EPA 8081A	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002
γ-BHC (Lindane)	EPA 8081A	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002
PCBs, mg/kg							
Aroclor 1016	EPA 8082	ND<0.020	ND<0.024	ND<0.020	ND<0.024	ND<0.020	ND<0.025
Aroclor 1221	EPA 8082	ND<0.020	ND<0.024	ND<0.020	ND<0.024	ND<0.020	ND<0.025
Aroclor 1232	EPA 8082	ND<0.020	ND<0.024	ND<0.020	ND<0.024	ND<0.020	ND<0.025
Aroclor 1242	EPA 8082	ND<0.020	ND<0.024	ND<0.020	ND<0.024	ND<0.020	ND<0.025
Aroclor 1248	EPA 8082	ND<0.020	ND<0.024	ND<0.020	ND<0.024	ND<0.020	ND<0.025
Aroclor 1254	EPA 8082	ND<0.020	ND<0.024	ND<0.020	ND<0.024	ND<0.020	ND<0.025
Aroclor 1260	EPA 8082	ND<0.020	ND<0.024	ND<0.020	ND<0.024	ND<0.020	ND<0.025
Total PCBs	EPA 8082	ND<0.020	ND<0.024	ND<0.020	ND<0.024	ND<0.020	ND<0.025
Organotins, ug/kg							
Tributyltin	GC-FPD	ND<1.0	ND<1.2	ND<1.0	ND<1.2	ND<1.0	ND<1.2
Dibutyltin	GC-FPD	ND<2.0	ND<2.4	ND<2.0	ND<2.4	ND<2.0	ND<2.4
Monobutyltin	GC-FPD	ND<2.0	ND<2.5	ND<2.0	ND<2.5	ND<2.0	ND<2.5

Geomatrix Consultants, Inc.
A-2 & A-3 Borrow Areas, Palos Verdes Shelf Superfund Investigation

Summary Data Sheet (Calscience Work Order: 00-03-1139)							
Parameter	Method	VC00-A3-05-Comp		VC00-A3-05-Comp Rep		VC00-A3-07-Comp	
		wet wt.	dry wt.	wet wt.	dry wt.	wet wt.	dry wt.
Semi-Volatile Organics, mg/kg							
Total LPAH	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
2-Methylnapthalene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Napththalene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Acenaphthylene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Acenaphthene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Fluorene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Phenanthrene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Anthracene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Total HPAH	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Fluoranthene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Pyrene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Benzo(a)anthracene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Chrysene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Benzo(b)fluoranthene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Benzo(k)fluoranthene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Benzo(a)pyrene	EPA 8270C	ND<0.014	ND<0.017	ND<0.014	ND<0.017	ND<0.014	ND<0.017
Indeno(1,2,3-cd)pyrene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Dibenzo(a,h)anthracene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Benzo(g,h,i) perylene	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Total PAH	EPA 8270C	ND<0.016	ND<0.019	ND<0.016	ND<0.02	ND<0.016	ND<0.02
Metals, mg/kg							
Antimony	EPA 6020	0.154	0.187	0.135	0.1650	ND<0.1	ND<0.1
Arsenic	EPA 6020	3.69	4.48	3.24	3.95	3.60	4.43
Cadmium	EPA 6020	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Chromium	EPA 6020	8.69	10.6	8.22	10.0	8.88	10.9
Copper	EPA 6020	1.18	1.43	1.05	1.28	1.71	2.10
Lead	EPA 6020	1.93	2.34	1.77	2.16	2.16	2.66
Mercury	EPA 7471A	ND<0.08	ND<0.1	ND<0.08	ND<0.1	ND<0.08	ND<0.1
Nickel	EPA 6020	2.34	2.84	2.08	2.54	2.95	3.63
Silver	EPA 6020	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Zinc	EPA 6020	7.95	9.66	6.89	8.41	9.65	11.9

Notes:

NA = Not Applicable
 ND = Not detected at indicated reporting limit.
 wet wt. = wet weight values
 dry wt. = dry weight values
 = Analyte was detected at a concentration below the reporting limit but above the detection limit. Reported value is estimated.

Geomatrix Consultants, Inc.
A-2 & A-3 Borrow Areas, Palos Verdes Shelf Superfund Investigation

Summary Data Sheet
(Calscience Work Order: 00-03-1139)

Parameter	Method	Method Blank wet wt.
<u>Physical/Conventional Tests</u>		
Total Percent Solids, %	ASTM D-2216	NA
Total Organic Carbon, %	EPA 9060	ND<0.004
Total Sulfide, mg/kg	EPA 376.2M	ND<0.1
Oil & Grease, mg/kg	EPA 413.2M	ND<1.0
TRPH, mg/kg	EPA 418.1M	ND<1.0
Total Volatile Solids, %	EPA 160.4	NA
pH, pH units	EPA 9045B	NA
Ammonia-N, mg/kg	EPA 350.2M	ND<0.1
<u>Pesticides, mg/kg</u>		
p,p-DDD	EPA 8081A	ND<0.002
p,p-DDE	EPA 8081A	ND<0.002
p,p-DDT	EPA 8081A	ND<0.002
Aldrin	EPA 8081A	ND<0.002
Chlordane	EPA 8081A	ND<0.020
Dieldrin	EPA 8081A	ND<0.002
Heptachlor	EPA 8081A	ND<0.002
γ-BHC (Lindane)	EPA 8081A	ND<0.002
<u>PCBs, mg/kg</u>		
Aroclor 1016	EPA 8082	ND<0.002
Aroclor 1221	EPA 8082	ND<0.002
Aroclor 1232	EPA 8082	ND<0.002
Aroclor 1242	EPA 8082	ND<0.002
Aroclor 1248	EPA 8082	ND<0.002
Aroclor 1254	EPA 8082	ND<0.002
Aroclor 1260	EPA 8082	ND<0.002
Total PCBs	EPA 8082	ND<0.002
<u>Organotins, ug/kg</u>		
Tributyltin	GC-FPD	ND<1.0
Dibutyltin	GC-FPD	ND<2.0
Monobutyltin	GC-FPD	ND<2.0

Geomatrix Consultants, Inc.
A-2 & A-3 Borrow Areas, Palos Verdes Shelf Superfund Investigation

Summary Data Sheet
(Calscience Work Order: 00-03-1139)

Parameter	Method	Method Blank
		wet wt.
<u>Semi-Volatile Organics, mg/kg</u>		
Total LPAH	EPA 8270C	ND<0.016
2-Methylnapthalene	EPA 8270C	ND<0.016
Napththalene	EPA 8270C	ND<0.016
Acenaphthylene	EPA 8270C	ND<0.016
Acenaphthene	EPA 8270C	ND<0.016
Fluorene	EPA 8270C	ND<0.016
Phenanthrene	EPA 8270C	ND<0.016
Anthracene	EPA 8270C	ND<0.016
Total HPAH	EPA 8270C	ND<0.016
Fluoranthene	EPA 8270C	ND<0.016
Pyrene	EPA 8270C	ND<0.016
Benzo(a)anthracene	EPA 8270C	ND<0.016
Chrysene	EPA 8270C	ND<0.016
Benzo(b)fluoranthene	EPA 8270C	ND<0.016
Benzo(k)fluoranthene	EPA 8270C	ND<0.016
Benzo(a)pyrene	EPA 8270C	ND<0.014
Indeno(1,2,3-cd)pyrene	EPA 8270C	ND<0.016
Dibenzo(a,h)anthracene	EPA 8270C	ND<0.016
Benzo(g,h,i) perylene	EPA 8270C	ND<0.016
Total PAH	EPA 8270C	ND<0.016
<u>Metals, mg/kg</u>		
Antimony	EPA 6020	ND<0.1
Arsenic	EPA 6020	ND<0.1
Cadmium	EPA 6020	ND<0.1
Chromium	EPA 6020	ND<0.1
Copper	EPA 6020	ND<0.1
Lead	EPA 6020	ND<0.1
Mercury	EPA 7471A	ND<0.08
Nickel	EPA 6020	ND<0.1
Silver	EPA 6020	ND<0.1
Zinc	EPA 6020	ND<0.1

Notes:

NA = Not Applicable
ND = Not detected at indicated reporting limit.
wet wt. = wet weight values
dry wt. = dry weight values
* = Analyte was detected at a concentration below the reporting limit but above the detection limit. Reported value is estimated.

Chain-of-Custody Record

Project No.: 4-186.018		ANALYSES										REMARKS		
Samplers (Signatures): <i>Paul Jensen</i>		Date	Time	Sample Number	Soil (S), Water (W), Vapor (V), or Other	EPA Method 8010	EPA Method 8240	EPA Method 8270	TPH by:	TPH Method 8020 (BTEX)	TPH:	Acidified	No. of containers	Additional Comments
3/30/00	7:40	V000-A3-03-C	S									✓	2	16 oz 8oz CERT # 120799 & 122099 NOTE: EACH SAMPLE CONSISTS OF ONE 16OZ & ONE 8OZ GLASS BOTTLE
3/30/00	8:25	V000-A3-05	S									✓	2	
3/30/00	9:15	V000-A3-05-C	S									✓	2	
3/30/00	9:45	V000-A3-05-D	S									✓	2	
3/30/00	10:25	V000-A3-05-A	S									✓	2	
3/30/00	10:50	V000-A3-05-B	S									✓	2	
3/30/00	13:00	V000-A3-07	S									✓	2	
3/30/00	13:40	V000-A3-07-A	S									✓	2	
3/30/00	14:15	V000-A3-07-B	S									✓	2	
3/30/00	14:50	V000-A3-07-C	S									✓	2	
3/30/00	15:25	V000-A3-07-D	S									✓	2	
3/30/00	-	TEMP BLANK	W									✓	1	
Turnaround time: WILL CALL WITH INSTRUCTIONS													Total No. of containers: 23	

Results to: **TIM KEUSHER GEOMATRIX CONSULTANTS**

Relinquished by (signature): <i>[Signature]</i>	Date: 3/30/00	Time: 19:20
Printed name: DALE BLACK		
Company: CA SCIENCE		
Received by (signature): <i>[Signature]</i>	Date: 3/30	Time: 19:20
Printed Name: ALEX E		
Company: CBCL		

Method of shipment: **COURIER**

Laboratory comments and Log No.:

Geomatrix Consultants
 330 W. Bay Street, Suite 140
 Costa Mesa, California 92627
 (949) 642-0245

From: Duane Paul <DPaul@geomatrix.com>
To: "bstearns@calscience.com" <bstearns@calscience.com>
Subject: FW:
Date: Mon, 3 Apr 2000 15:35:08 -0700
X-Mailer: Internet Mail Service (5.5.2650.21)

Select samples from 05 to run the replicate sample.

Duane

-----Original Message-----

From: jdevine@spl.usace.army.mil [mailto:jdevine@spl.usace.army.mil]
Sent: Monday, April 03, 2000 3:20 PM
To: DPaul@geomatrix.com
Subject: RE:

Yes, please select one of the locations, i.e. either five samples from 05 or five samples from 07. Run a duplicate on one of those composites. Thanks.

-----Original Message-----

From: Duane Paul [mailto:DPaul@geomatrix.com]
Sent: Monday, April 03, 2000 12:15 PM
To: 'jdevine@spl.usace.army.mil'
Cc: Timothy Keuscher; Jay Weaver
Subject: RE:

Jeffrey,

I understand that a composite sediment sample from Area 2 will not be analyzed at this point.

The revised SAP called for a duplicate analysis. Is there one set of samples described below that you want a duplicate analysis performed on??

Please advise.

Thank you,

Duane

-----Original Message-----

From: jdevine@spl.usace.army.mil [mailto:jdevine@spl.usace.army.mil]
Sent: Monday, April 03, 2000 11:39 AM
To: dpaul@geomatrix.com; tkeuscher@geomatrix.com
Subject:

Tim/Duane:

I am acting on behalf of Greg Dombrosky, the project engineer for the Palos

Calscience

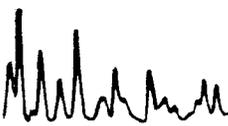
Environmental

Laboratories, Inc.

CALSCIENCE LEVEL III DATA PACKAGE

W.O. 00-03-0632

- 1) Client/Laboratory sample ID cross reference list
- 2) EPA Method 8141A
- 3) EPA Method 6010B
- 4) EPA Method 7470A/7471A
- 5) EPA 8081A
- 6) EPA 8270C
- 7) EPA 8260B
- 8) EPA TO-14A



From: Kim Holland <KHolland@geomatrix.com>
To: "bstearns@calscience.com" <bstearns@calscience.com>
Cc: "jdevine@spl.usace.army.mil" <jdevine@spl.usace.army.mil>, Duane Paul <DPaul@geomatrix.com>
Subject: Samples to Analyze for USACE Project
Date: Mon, 3 Apr 2000 14:10:54 -0700
X-Mailer: Internet Mail Service (5.5.2650.21)

The USACE informed us of the samples they would like to have analyzed. Please composite VC00-A3-05, VC00-A3-05-A, VC00-A3-05-B, VC00-A3-05-C, and VC00-A3-05-D to form one sample. These samples were collected on March 30, 2000 and were submitted to you under COC #5221. The other sample will be a composite of VC00-A3-07, VC00-A3-07-A, VC00-A3-07-B, VC00-A3-07-C, and VC00-A3-07-D. These samples were also collected on March 30, 2000 and were submitted under COC #5221. We were also informed that no soil replicate will be analyzed at this time. Please hold the remainder of the samples for this project. Thanks. Please contact me or Duane with any questions

Kim Holland
Geomatrix Consultants, Inc.
(kholland@geomatrix.com)

SAMPLE RECEIPT FORM

Work Order Number: 00-03-1139
Delivery Container Type: Cooler
Client Project ID: A2 & A3 Borow Areas, P.V. Shelf

Date Received: 03/30/00
Date Opened: 03/30/00
Opened By: AE

Section A: Pass/Fail

Criteria

Comments

- | | |
|---|-----|
| 1. Chain of custody document(s) received with samples. | Yes |
| 2. Sample container label(s) consistent with custody papers. | Yes |
| 3. Sample container label(s) complete (ID, date, time, taken by). | Yes |
| 4. Sample container(s) intact and in good condition. | Yes |
| 5. If applicable, proper preservation noted on sample label(s). | NA |
| 6. Sufficient sample volume received for analyses requested. | Yes |
| 7. Correct containers used for analyses requested. | Yes |
| 8. If applicable, VOA vials free of headspace. | NA |

Section B: Additional Observations

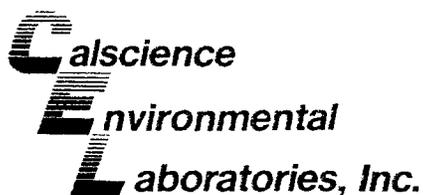
- | | |
|---|-------------------------------|
| 1. Describe packing materials used in container. | NA |
| 2. Was sample container(s) sealed with custody | Yes Cooler with Custody Seal. |
| 3. Were all samples sealed in separate plastic bags? | No |
| 4. Measured temperature inside delivery container when opened. | 4.0 °C |
| 5. If delivery container shipped by third-party carrier, did container come with shipping slip, airbill, etc.? If YES, attach copy of shipping slip/airbill to the back of this | NA |
| 6. Do tedlar bags show condensation? Describe below if yes. | NA |
| 7. Are 25.1 condensate traps immersed in dry ice? | NA |
| 8. Are 25.1 sampling trains intact? | NA |
| 9. Are 25.3 condensate vials still attached to the sampling train? | NA |
| 10. Are 25.3 condensate vials on wet ice? | NA |

Section C: Additional Comments



Quality Assurance Summary

Geomatrix Consultants



QUALITY ASSURANCE SUMMARY
Method EPA 418.1

Geomatrix Consultants
Page 1 of 1

Work Order No.: 00-03-1139
Date Analyzed: 04/07/00

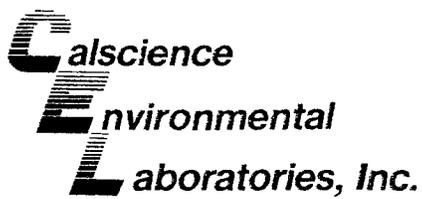
Matrix Spike/Matrix Spike Duplicate

Sample Spiked: CVOO-A3-07-Comp

<u>Analyte</u>	<u>MS%REC</u>	<u>MSD%REC</u>	<u>Control Limits</u>	<u>%RPD</u>	<u>Control Limits</u>
Total Recoverable Petroleum Hydrocarbons	99	97	55 - 135	2	0 - 30

Laboratory Control Sample

<u>Analyte</u>	<u>Conc. Added</u>	<u>Conc. Rec.</u>	<u>%REC</u>	<u>Control Limits</u>
Total Recoverable Petroleum Hydrocarbons	200	203	102	70 - 130



QUALITY ASSURANCE SUMMARY
Method EPA 413.2

Geomatrix Consultants
Page 1 of 1

Work Order No.: 00-03-1139
Date Analyzed: 04/07/00

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: CVOO-A3-07-Comp

<u>Analyte</u>	<u>MS%REC</u>	<u>MSD%REC</u>	<u>Control Limits</u>	<u>%RPD</u>	<u>Control Limits</u>
Oil and Grease	100	98	55 - 135	1	0 - 30

Laboratory Control Sample

<u>Analyte</u>	<u>Conc. Added</u>	<u>Conc. Rec.</u>	<u>%REC</u>	<u>Control Limits</u>
Oil and Grease	200	203	102	70 - 130

QUALITY ASSURANCE SUMMARY

Method EPA 9060

Geomatrix Consultants
 Page 1 of 1

Work Order No.: 00-03-1139
 Date Analyzed: 04/04/00

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: VCOO-A3-05-Comp

<u>Analyte</u>	<u>MS%REC</u>	<u>MSD%REC</u>	<u>Control Limits</u>	<u>%RPD</u>	<u>Control Limits</u>
Total Organic Carbon	98	96	70 - 130	2	0 - 25

Laboratory Control Sample

<u>Analyte</u>	<u>Conc. Added</u>	<u>Conc. Rec.</u>	<u>%REC</u>	<u>Control Limits</u>
Total Organic Carbon	800	788	98	80 - 120

QUALITY ASSURANCE SUMMARY

Method EPA 350.2M

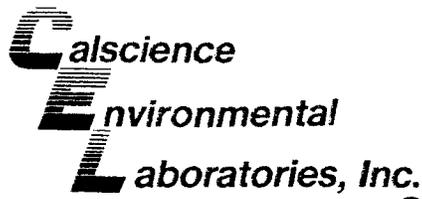
Geomatrix Consultants
Page 1 of 1

Work Order No.: 00-03-1139
Date Analyzed: 04/05/00

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: CVOO-A3-05-Comp

<u>Analyte</u>	<u>MS%REC</u>	<u>MSD%REC</u>	<u>Control Limits</u>	<u>%RPD</u>	<u>Control Limits</u>
Ammonia	100	101	80 - 120	1	0 - 20



QUALITY ASSURANCE SUMMARY

Geomatrix Consultants
Page 1 of 1

Work Order No.: 00-03-1139
Date Analyzed: 04/03-10/00

Method EPA 9045B - pH

<u>Sample Number</u>	<u>Sample Conc.</u>	<u>Duplicate Conc.</u>	<u>%RPD</u>	<u>Control Limits (%)</u>
VCOO-A3-05-Comp (Duplicate)	8.32	8.37	1	0 - 25

Method EPA 376.2M - Sulfide

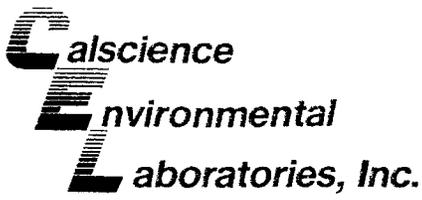
<u>Sample Number</u>	<u>Sample Conc.</u>	<u>Duplicate Conc.</u>	<u>%RPD</u>	<u>Control Limits (%)</u>
VCOO-A3-05-Comp (Duplicate)	ND	ND	NA	0 - 25

Method ASTM D-2216 - Moisture Content

<u>Sample Number</u>	<u>Sample Conc.</u>	<u>Duplicate Conc.</u>	<u>%RPD</u>	<u>Control Limits (%)</u>
VCOO-A3-05-Comp Rep (Duplicate)	18.1	18.1	0	0 - 25

Method EPA 160.4 - Volatile Solids

<u>Sample Number</u>	<u>Sample Conc.</u>	<u>Duplicate Conc.</u>	<u>%RPD</u>	<u>Control Limits (%)</u>
VCOO-A3-05-Comp Rep (Duplicate)	8190	7660	7	0 - 25



QUALITY ASSURANCE SUMMARY
Method EPA 8270C

Geomatrix Consultants
Page 1 of 1

Work Order No.: 00-03-1139
Date Analyzed: 04/06/00

Surrogate Recoveries (in %)

<u>Sample Number</u>	<u>S1</u>	<u>S2</u>	<u>S3</u>	<u>S4</u>	<u>S5</u>	<u>S6</u>
CVOO-A3-05-Comp	68	69	77	73	73	68
CVOO-A3-05-Comp Rep	64	65	74	71	70	67
CVOO-A3-07-Comp	69	70	79	76	76	71
Method Blank	75	76	82	76	79	76

<u>Surrogate Compound</u>	<u>Soil %REC</u> <u>Acceptable Limits</u>
S1 > 2-Fluorophenol	25 - 121
S2 > Phenol-d ₆	24 - 113
S3 > Nitrobenzene-d ₅	23 - 120
S4 > 2-Fluorobiphenyl	30 - 115
S5 > 2,4,6-Tribromophenol	19 - 122
S6 > p-Terphenyl-d14	18 - 137

QUALITY ASSURANCE SUMMARY

Method EPA 8081A/8082

Geomatrix Consultants
 Page 1 of 1

Work Order No.: 00-03-1139
 Date Analyzed: 04/10/00

Surrogate Recoveries (in %)

<u>Sample Number</u>	<u>S1</u>	<u>S2</u>
CVOO-A3-05-Comp	89	94
CVOO-A3-05-Comp Rep	87	95
CVOO-A3-07-Comp	86	92
Method Blank	72	85

Surrogate Compound

S1 > Decachlorobiphenyl (DCB)
 S2 > 2,4,5,6-Tetrachloro-m-Xylene

%REC Acceptable Limits

50 - 130
 50 - 130

Quality Control - Spike/Spike Duplicate

Geomatrix Consultants
 330 West Bay Street Suite 140
 Costa Mesa, CA 92627

Date Received: 03/30/00
 Work Order No: 00-03-1139
 Preparation: Total Digestion
 Method: EPA 7471A

Project: A2 & A3 Borrow Areas, P.V. Shelf

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
00-03-0972-11	Solid	Mercury	04/04/00	04/04/00	040400ms2

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	119	119	76-136	0	0-16	

Quality Control - Spike/Spike Duplicate

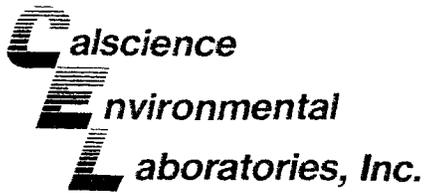
Geomatrix Consultants
 330 West Bay Street Suite 140
 Costa Mesa, CA 92627

Date Received: 03/30/00
 Work Order No: 00-03-1139
 Preparation: Total Digestion
 Method: EPA 6020

Project: A2 & A3 Borrow Areas, P.V. Shelf

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
VCOO-A3-05-Comp	Solid	ICP/MS A	04/04/00	04/04/00	040400ms4

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	55	61	80-120	9	0-20	3
Arsenic	67	69	80-120	2	0-20	3
Cadmium	87	88	80-120	2	0-20	
Chromium (Total)	88	90	80-120	2	0-20	
Copper	63	64	80-120	2	0-20	3
Lead	98	99	80-120	2	0-20	
Nickel	83	87	80-120	4	0-20	
Silver	86	78	80-120	10	0-20	3
Zinc	59	59	80-120	0	0-20	3



Quality Control - PDS / PDSD

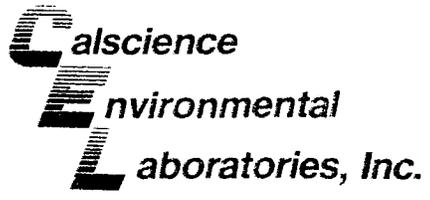
Geomatrix Consultants
330 West Bay Street, Suite 140
Costa Mesa, CA 92627

Date Received: 03/30/00
Work Order No.: 00-03-1139
Preparation: Total Digestion
Method: EPA 6020

Project: A2 & A3 Borrow Areas, P.V. Shelf

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
VCOO-A3-05-Comp	Solid	ICP/MS A	4/4/2000	4/4/2000	040400ms4

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifier
Antimony	96	97	75-125	1	0-20	
Arsenic	74	75	75-125	1	0-20	3
Cadmium	93	94	75-125	2	0-20	
Chromium (Total)	94	100	75-125	4	0-20	
Copper	69	71	75-125	3	0-20	3
Lead	109	108	75-125	0	0-20	
Nickel	92	93	75-125	2	0-20	
Silver	88	90	75-125	2	0-20	
Zinc	68	68	75-125	0	0-20	3



Quality Control - Spike/Spike Duplicate

Geomatrix Consultants
330 West Bay Street Suite 140
Costa Mesa, CA 92627

Date Received: 03/30/00
Work Order No: 00-03-1139
Preparation: EPA 3550A
Method: EPA 8081A/8082

Project: A2 & A3 Borrow Areas, P.V. Shelf

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
VCOO-A3-07-Comp	Solid	GC 17	04/04/00	04/07/00	0003113914

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gamma-BHC	98	89	50-135	9	0-25	
Heptachlor	98	87	50-135	11	0-25	
Endosulfan I	82	76	50-135	7	0-25	
Dieldrin	94	85	50-135	10	0-25	
Endrin	102	92	50-135	10	0-25	
4,4'-DDT	91	75	50-135	19	0-25	

Quality Control - Spike/Spike Duplicate

Geomatrix Consultants
 330 West Bay Street Suite 140
 Costa Mesa, CA 92627

Date Received: 03/30/00
 Work Order No: 00-03-1139
 Preparation: EPA 3550A
 Method: EPA 8270C

Project: A2 & A3 Borrow Areas, P.V. Shelf

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
VCOO-A3-07-Comp	Solid	GC/MS H	04/04/00	04/06/00	0003113914

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	65	65	53-118	0	0-19	
2-Chlorophenol	68	67	60-119	1	0-18	
1,4-Dichlorobenzene	77	71	56-131	9	0-18	
N-Nitroso-di-n-propylamine	75	72	64-123	4	0-18	
1,2,4-Trichlorobenzene	77	70	52-144	10	0-17	
4-Chloro-3-Methylphenol	73	74	45-135	1	0-20	
Acenaphthene	74	70	45-152	7	0-18	
4-Nitrophenol	71	68	45-135	4	0-20	
2,4-Dinitrotoluene	71	68	42-128	4	0-23	
Pentachlorophenol	73	73	45-135	0	0-20	
Pyrene	71	68	45-135	5	0-20	



Quality Control - Laboratory Control Sample


Geomatrix Consultants
330 West Bay Street Suite 140
Costa Mesa, CA 92627

Date Received: 03/30/00
Work Order No: 00-03-1139
Preparation: Total Digestion
Method: EPA 7471A

Project: A2 & A3 Borrow Areas, P.V. Shelf

LCS Sample Number	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-04-007-375	Solid	Mercury	04/04/00	000404 L	000404lcs2

<u>Parameter</u>	<u>Conc Added</u>	<u>Conc Recovered</u>	<u>%Rec</u>	<u>%Rec CL</u>	<u>Qualifiers</u>
Mercury	0.835	0.948	114	82-124	

Quality Control - LCS/LCS Duplicate

Geomatrix Consultants
 330 West Bay Street Suite 140
 Costa Mesa, CA 92627

Date Received: 03/30/00
 Work Order No: 00-03-1139
 Preparation: Total Digestion
 Method: EPA 6020

Project: A2 & A3 Borrow Areas, P.V. Shelf

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-10-002-91	Solid	ICP/MS A	04/04/00	04/04/00	000404lcs4

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	93	98	80-120	5	0-20	
Arsenic	97	103	80-120	7	0-20	
Cadmium	96	101	80-120	5	0-20	
Chromium (Total)	97	102	80-120	5	0-20	
Copper	98	103	80-120	5	0-20	
Lead	101	105	80-120	4	0-20	
Nickel	98	103	80-120	5	0-20	
Silver	96	102	80-120	6	0-20	
Zinc	100	104	80-120	4	0-20	

Quality Control - LCS/LCS Duplicate

Geomatrix Consultants
 330 West Bay Street Suite 140
 Costa Mesa, CA 92627

Date Received: 03/30/00
 Work Order No: 00-03-1139
 Preparation: EPA 3550A
 Method: EPA 8081A/8082

Project: A2 & A3 Borrow Areas, P.V. Shelf

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-014-1,607	Solid	GC 17	04/04/00	04/06/00	0004046

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gamma-BHC	78	80	50-135	3	0-25	
Heptachlor	78	80	50-135	1	0-25	
Endosulfan I	76	78	50-135	2	0-25	
Dieldrin	77	78	50-135	1	0-25	
4,4'-DDT	82	83	50-135	2	0-25	
Aroclor-1260	82	89	50-135	9	0-25	

Quality Control - LCS/LCS Duplicate

Geomatrix Consultants
 330 West Bay Street Suite 140
 Costa Mesa, CA 92627

Date Received: 03/30/00
 Work Order No: 00-03-1139
 Preparation: EPA 3550A
 Method: EPA 8270C

Project: A2 & A3 Borrow Areas, P.V. Shelf

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-010-627	Solid	GC/MS H	04/04/00	04/06/00	0004045

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	89	86	67-118	4	0-24	
2-Chlorophenol	92	88	72-119	4	0-24	
1,4-Dichlorobenzene	91	88	69-118	3	0-27	
N-Nitroso-di-n-propylamine	97	93	70-112	4	0-24	
1,2,4-Trichlorobenzene	93	89	65-135	5	0-25	
4-Chloro-3-Methylphenol	101	97	45-135	4	0-20	
Acenaphthene	89	85	61-142	4	0-25	
4-Nitrophenol	91	87	45-135	5	0-20	
2,4-Dinitrotoluene	90	87	47-137	4	0-24	
Pentachlorophenol	92	88	45-135	5	0-20	
Pyrene	86	78	45-135	10	0-20	

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 00-03-1139

<u>Qualifier</u>	<u>Definition</u>
3	Spike or Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
ND	Not detected at indicated reporting limit.



Wet Chemistry Raw Data

Geomatrix Consultants

analyte: Bromide, Chromium VI, Cyanide, Total, Cyanide, Free, Cyanide, Amenable, Fluoride, Mercaptans, Nitrate-N, Nitrite-N, Phenolics, Total, Phosphate Hydrolyzable, Phosphate, Organic, Phosphate, Orthoic, Phosphorous, Total, Sulfate, Surfactants, Tannin/Lignin, Total Organic Carbon, Total Organic Halides,

Method: EPA 9060

Date Prepared: _____

Matrix: Aggregates solid

Date Analyzed: 4/4/00

Concentration Units: mg/kg

Analyst: [Signature]

Work Order Number	CEL I.D. #	Concentration	RL	MSD Result	Comments
00-03-1139	12	157	40	12% 6	WAX base
	12 dup	166			
	13	171			
	14	155			
Method Blank	MD		40		

QC

Sample Used	Sample Result	Spike Added	MS Result	%REC	MSD Result	%REC	Control Limits	RPD	Control Limits
00-03-1139-12	157	800	942	98	926	96	70-130	2	0-25
LCS									
Laboratory Control Sample		Conc. Added	LCS Result	%REC	LCSD Result	%REC	Control Limits	RPD	Control Limits
		800	788	98			80-120		0-20

A copy of the supporting raw data must be attached.

CalScience Environmental Laboratories
General Inorganic Raw Data Form

MBMSLCS

Analyte: Bromide, Chromium VI, Cyanide, Total, Cyanide, Free, Cyanide, Amenable, Fluoride, Mercaptans, Nitrate-N, Nitrite-N, Phenolics, Total, Phosphate Hydrolyzable, Phosphate, Organic, Phosphate, Orthoic, Phosphorous, Total, Sulfate, Surfactants, Tannin/Lignin, Total Organic Carbon, Total Organic Halides,

Method: EPA 9060

Date Prepared: _____

Matrix: Aqueous solid

Date Analyzed: 4/4/00

Concentration Units: mg/kg

Analyst: [Signature]

Work Order Number	CEL I.D. #	Concentration	RL #	Comments
00-03-1139	12	191	50	dry base
	12 dup	202	50	
	13	209	50	
	14	191	50	
Method Blank	MB	ND	50	

I/QC

Sample Used	Sample Result	Spiked Added	MS Result	%REC	MSD Result	%REC	Control Limits	RPD	Control Limits
LCS							70 - 130		0 - 25
Laboratory Control Sample							80 - 120		0 - 20

A copy of the supporting raw data must be attached.

Standard Name / Code	Prep Date	Conc (N)	Date Standardized
STD-1 <i>AgSO4 / Good - 08-04</i>	<i>Fisher</i>	<i>0.02</i>	<i>3/14/00</i>

Method Name/Number: *EPA 350.2/M*

Analyst: *IR*

Date *4/5/00*

Group Leader: _____

Date *1/1/00*

Quality Control

Date Analyzed	Work Order Number	Conc	Conc Duplicate	RPD	Control Limit
<i>4/5/00</i>	<i>00-03-1139-12</i>	<i>ND</i>	<i>ND</i>	<i>N/A</i>	<i>0-25</i>

Date Analyzed	Work Order Number	Initial W(g) V(mL)	Final Vol (mL)	VO(mL)	V1(mL)	Dilution Factor	Initial Conc mg/kg, mg/L	Final Conc mg/kg, mg/L	RL	Comment
<i>4/5/00</i>	<i>MS</i>	<i>200</i>	<i>200</i>	<i>0.00</i>	<i>0.00</i>		<i>ND</i>	<i>ND</i>	<i>1</i>	
	<i>MS</i>	<i>200</i>	<i>200</i>	<i>0.00</i>	<i>3.48</i>		<i>4.87</i>	<i>12.2</i>	<i>1</i>	<i>12.5 ppm</i>
	<i>00-03-1139-12</i>	<i>200.02</i>	<i>200</i>	<i>0.00</i>	<i>0.50</i>		<i>0.70</i>	<i>ND</i>	<i>1</i>	
	<i>-13</i>	<i>200.03</i>	<i>200</i>	<i>0.00</i>	<i>0.50</i>		<i>0.70</i>	<i>ND</i>		
	<i>-14</i>	<i>200.04</i>	<i>200</i>	<i>0.00</i>	<i>0.60</i>		<i>0.84</i>	<i>ND</i>		
	<i>00-03-1139-12</i>	<i>200.06</i>	<i>200</i>	<i>0.00</i>	<i>0.50</i>		<i>0.70</i>	<i>ND</i>		<i>12.5 ppm</i>
	<i>MS</i>	<i>200.08</i>	<i>200</i>	<i>0.00</i>	<i>8.92</i>		<i>12.48</i>	<i>12.5</i>		<i>RPD=1% 10/</i>
	<i>MSD</i>	<i>200.07</i>	<i>200</i>	<i>0.00</i>	<i>9.00</i>		<i>12.60</i>	<i>12.6</i>		

Reviewed by: _____ Date: _____

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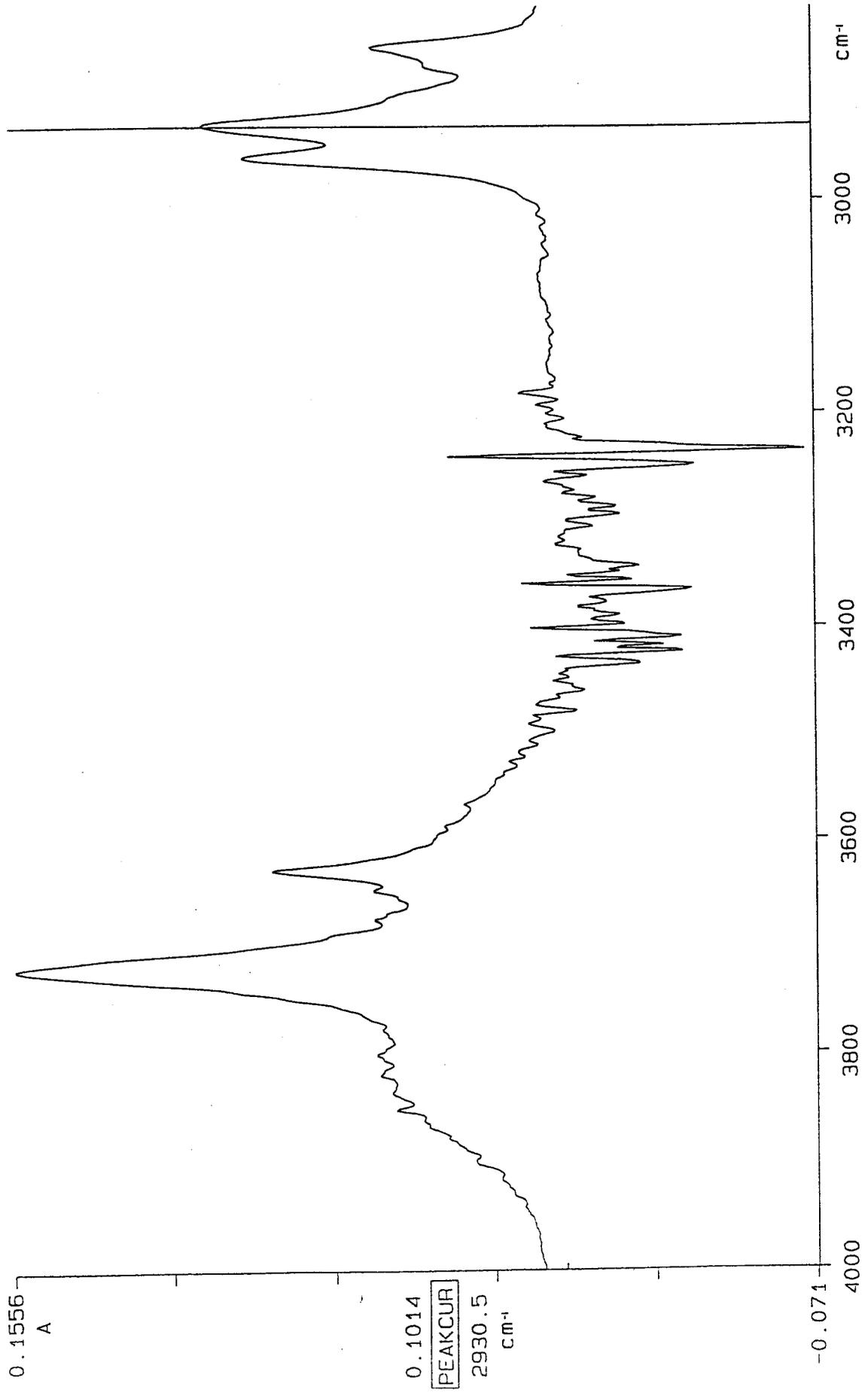


**Oil & Grease (EPA 413.2)
Raw Data**

Geomatrix Consultants

PERKIN ELMER

03/28/00
J
574.10 ppm



00/03/28 09:04 J.H.MOON

X: 1 scan, 4.0cm-1

PERKIN ELMER

0.1974
A

0.1974

PEAKCUR

2930.7

cm⁻¹

-0.063

4000

3800

3600

3400

3200

3000

cm⁻¹

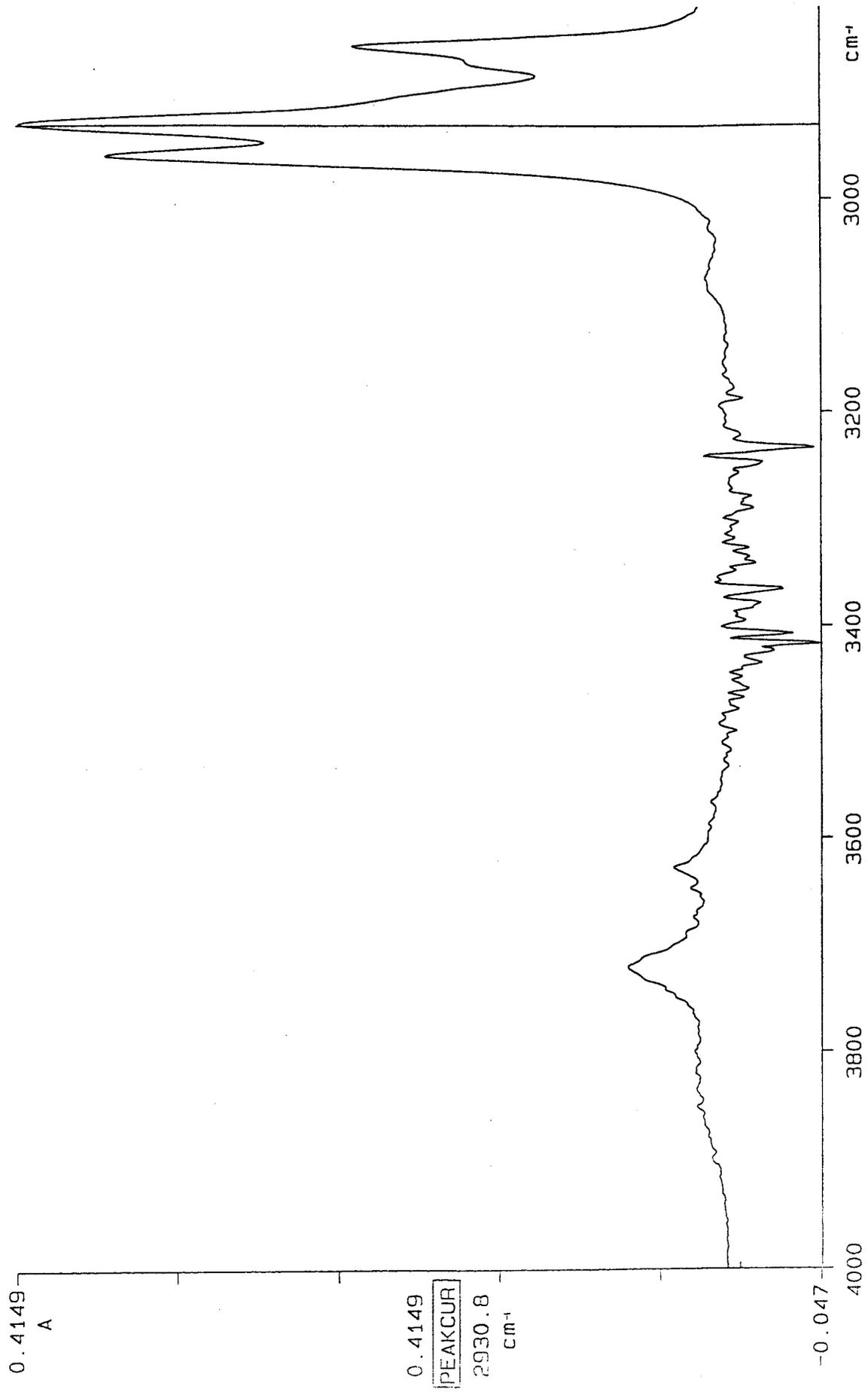
00/03/28 09:09 J.H.MOON

X: 1 scan, 4.0cm-1

03/28/00
for
Std. 20 19901

PERKIN ELM

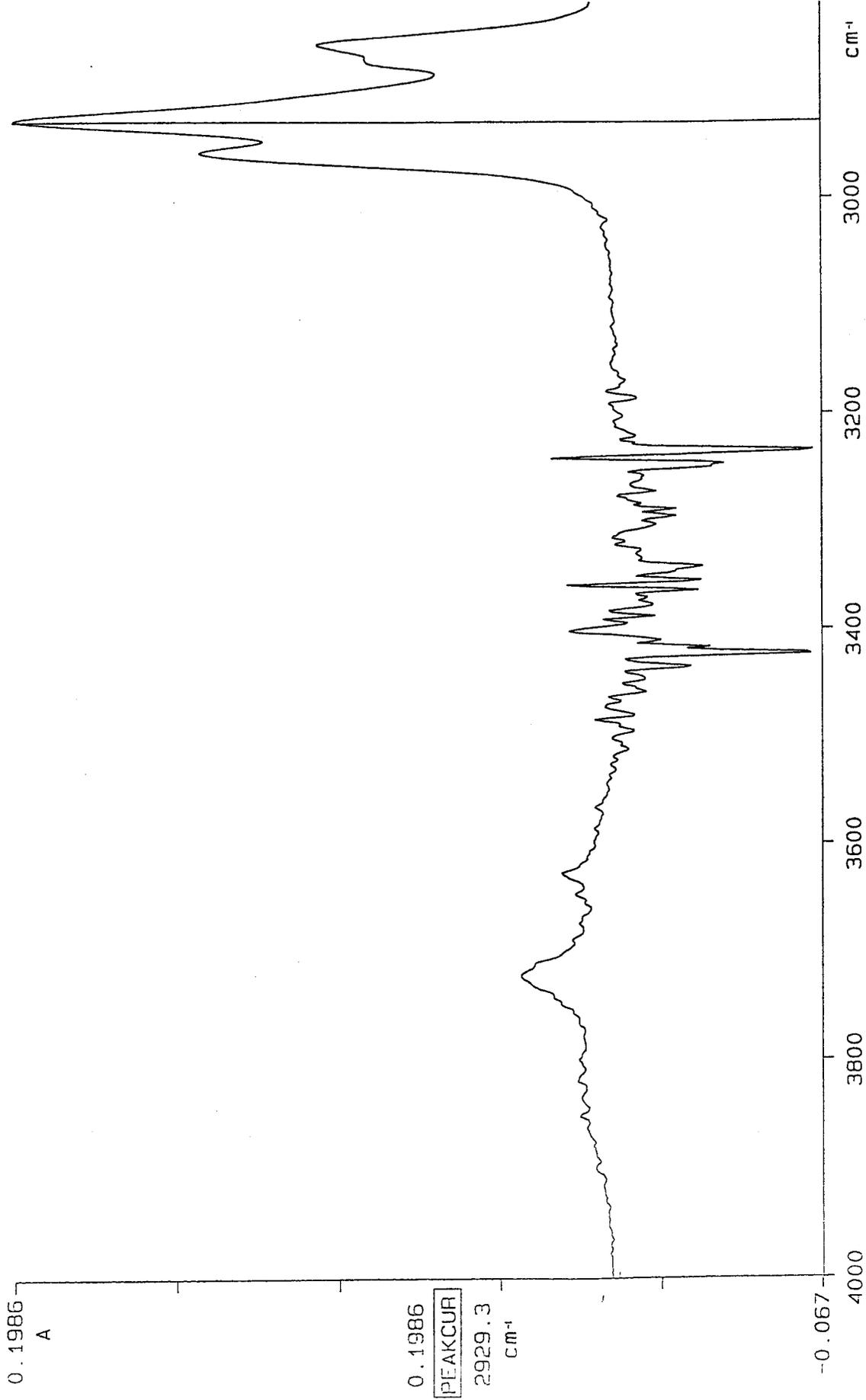
03/28/00
J
Std. 4017



00/03/28 09:13 J.H.MOON
X: 1 scan, 4.0cm-1

03/28/00
pr
2nd Src

PERKIN ELMER



00/03/28 09:17 J.H.MOON
X: 1 scan, 4.0cm-1

PERKIN ELMER

0.2061
A

0.2061

PEAKCUR

2930.9

cm⁻¹

-0.039

4000 3800 3600 3400 3200 3000 cm⁻¹

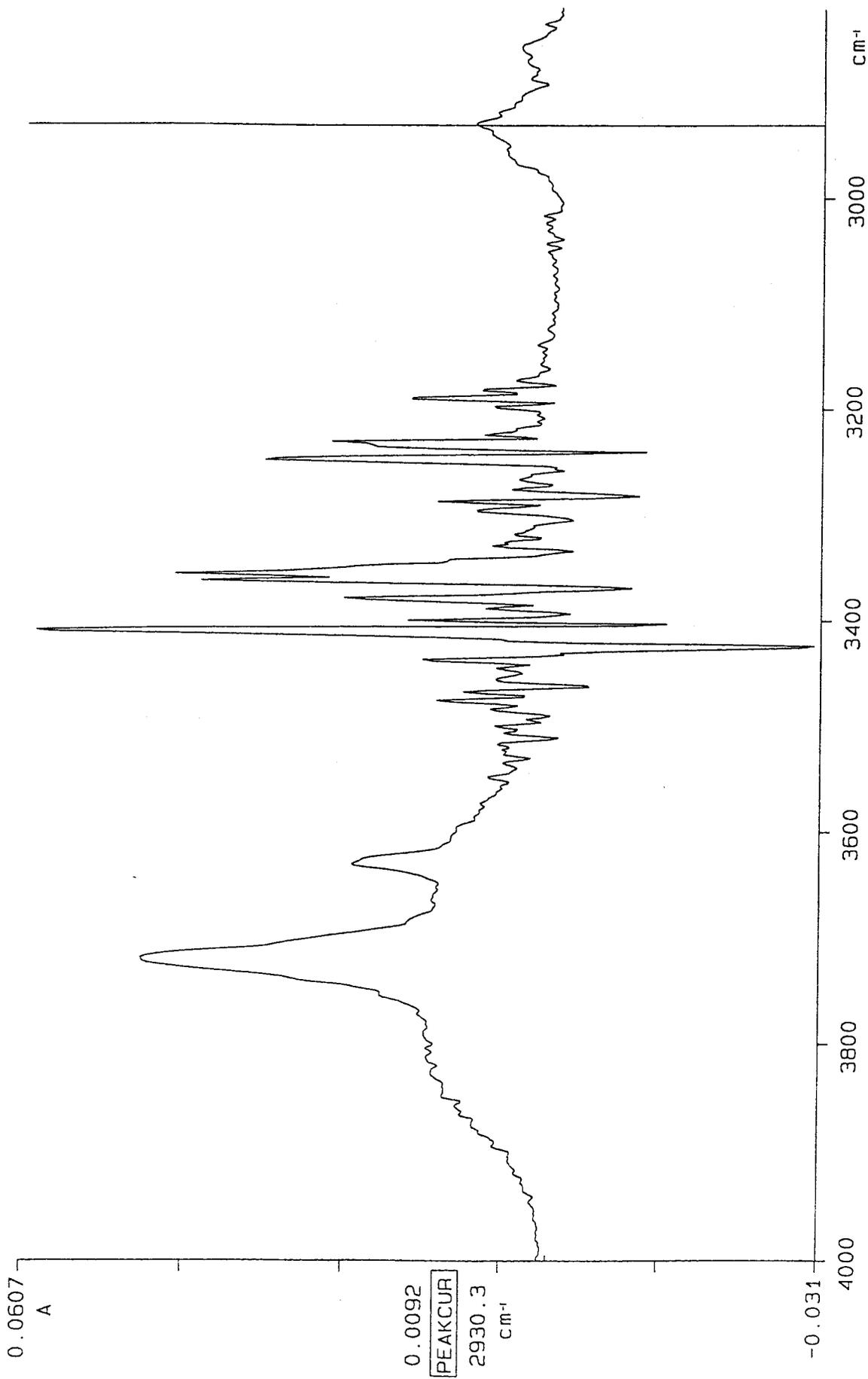
00/04/07 10:40 J.H. MOON
X: 1 scan, 4.0cm-1

04/07/00
J-
Stel. 20ppm

PERKIN ELMER

04/07/00
J

1113



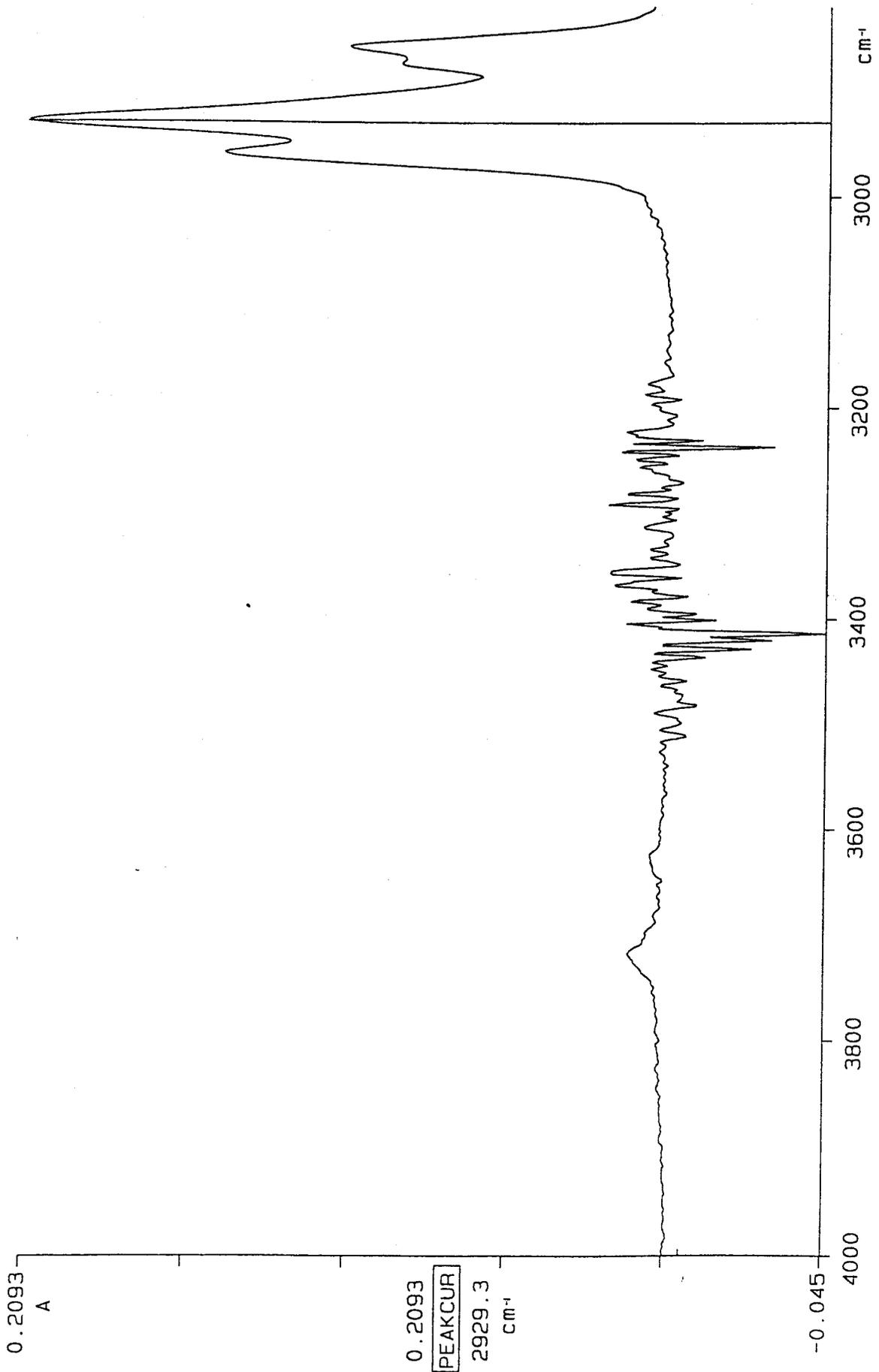
00/04/07 11:59 J.H.MOON

X: 1 scan, 4.0cm⁻¹

PERKIN ELMER

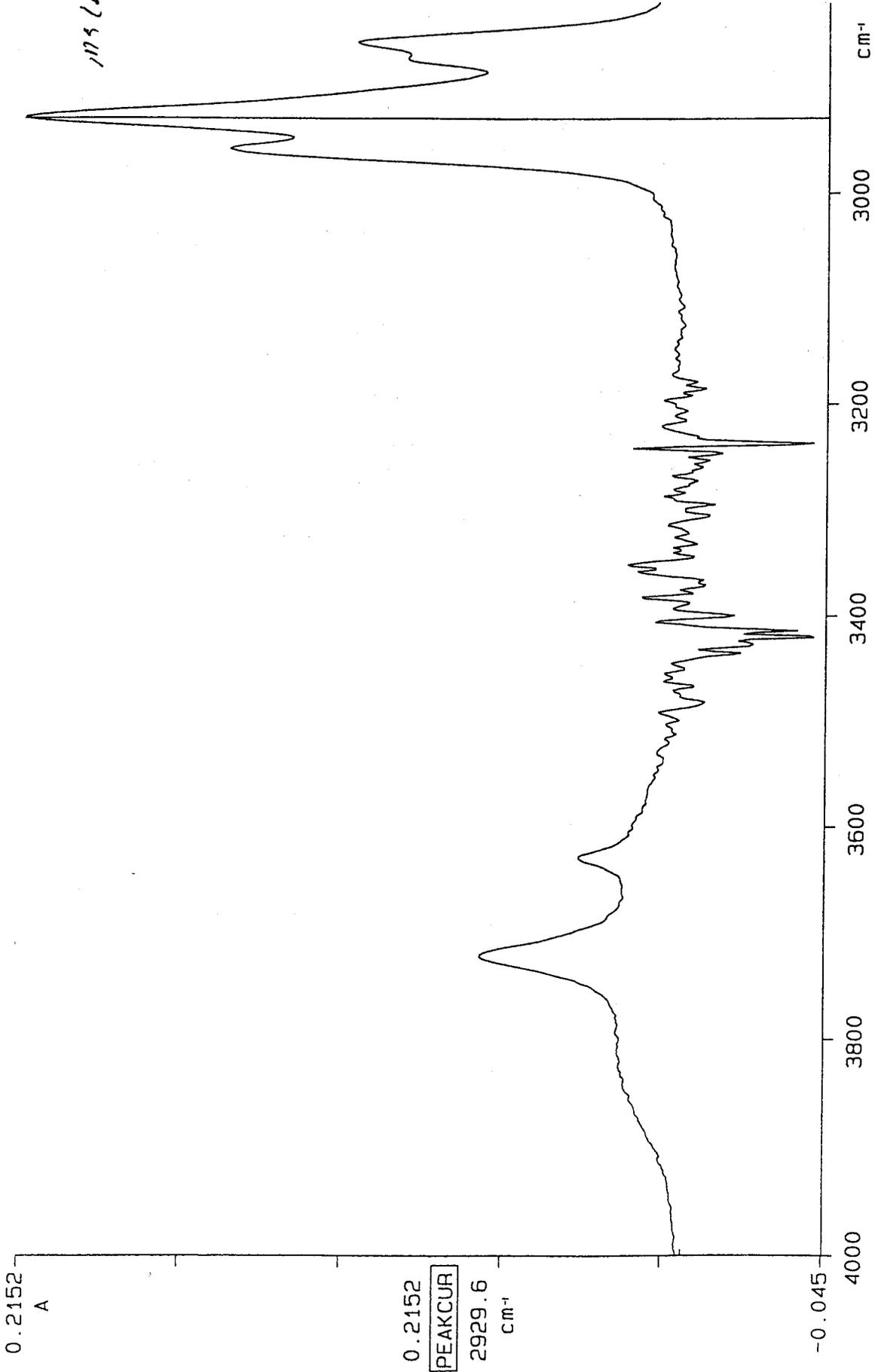
04/07/00
J

LCS
XF



00/04/07 13:51 J.H.MOON
X: 1 scan, 4.0cm⁻¹

PERKIN ELMER



4/07/00

2

00/04/07 14:01 J.H.MOON
X: 1 scan, 4.0cm-1

PERKIN ELMER

(

(

04/07/00
J

111D (00-03-1138-14)

X4

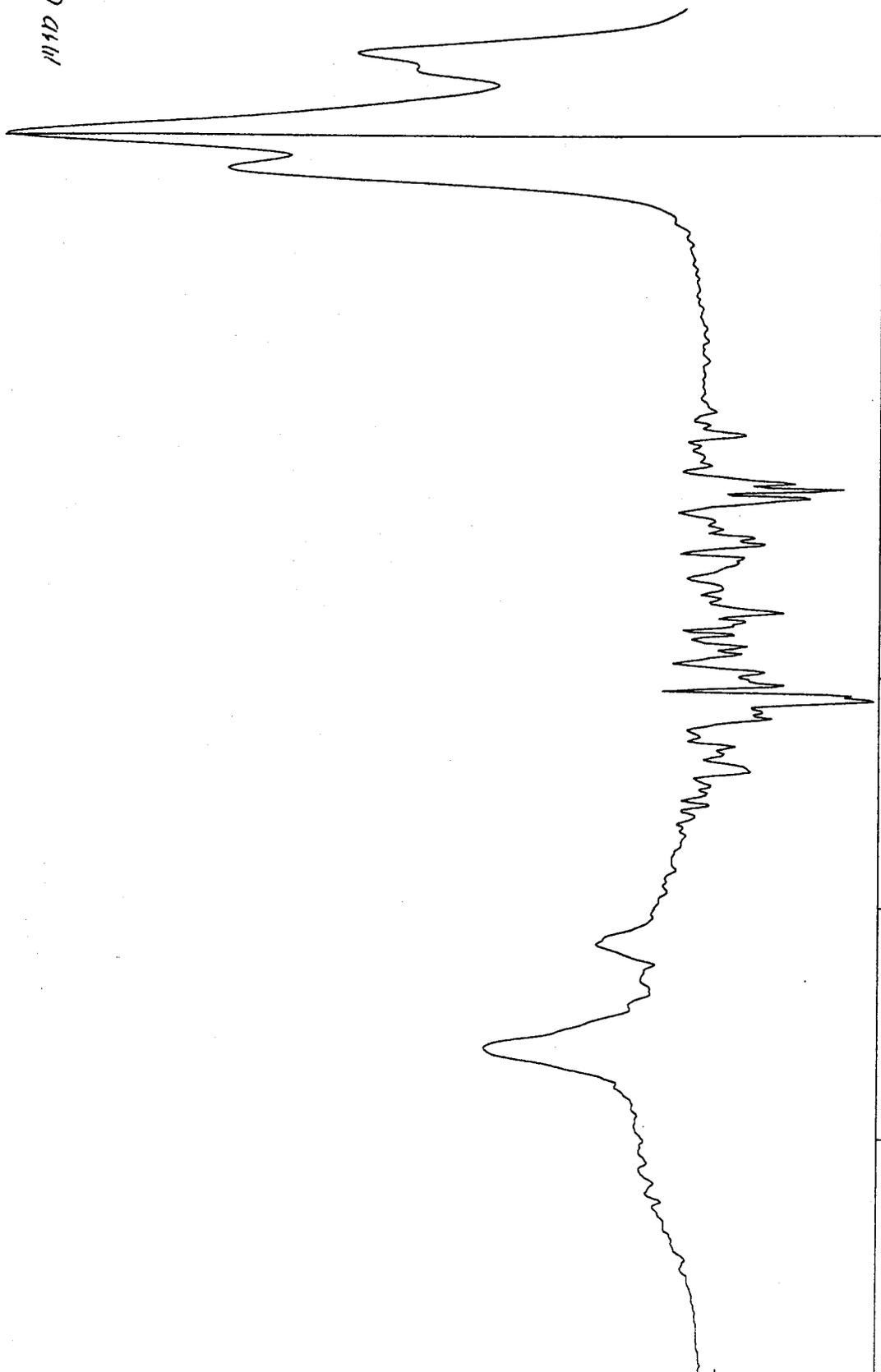
(413,2)

0.2112
A

0.2112
PEAKCUR
2929.7
cm⁻¹

-0.046

4000 3800 3600 3400 3200 3000 cm⁻¹



00/04/07 14:12 J.H.MOON
X: 1 scan, 4.0cm-1

Sample Number	Method Blank	SEA SAND	Batch Number	Aliquots / Final Vol (ml)	Standard ID / Conc (ppm) / Vol (ml)	Dilution	Freon Lot	Na ₂ SO ₄ Lot	Final Vol (ml)	Date Extracted	CEL ID Number	% RSD:	Date:	% D:	Analyst
1												77	3/28/00	2	
2			20	0.206	97										
3															
Method Blank	SEA SAND	200407015A	2.5ml / 25	NA	NA	0.009				4/7/00	12	Conc. (ppm)	REC (%)	RPD	
LCS	↓	↓	10.03/25	2.03 28.00 → 4000/150	4	0.209					13	2.03	10.2	NA	
MS	00-03-1139-14	2004070115	10.00/25	↓	4	0.215					14	2.08	10.0	↓	
MSD	↓	↓	10.07/25	↓	4	0.211						2.05	9.8	7	
CEL ID Number			Aliquots / Final Vol (ml)	Final Vol (ml)	Na ₂ SO ₄ Lot	Dilution	Freon Lot	Conc. (ppm)	Abs. (ppm)	Dilution	Conc. (ppm)	Abs. (ppm)	REC (%)	RPD	
(4/13/00) 00-03-1139-12			10.05 / 25	2.2-65-25	2.2-78-24	NA		0.031	0.031	NA	9.5	0.031	9.5	↓	
↓			10.02 /	↓	↓	↓		0.037	0.037	↓	9.0	0.037	11	↓	
↓			10.01 /	↓	↓	↓		0.033	0.033	↓	8.0	0.033	9.8	↓	

5710

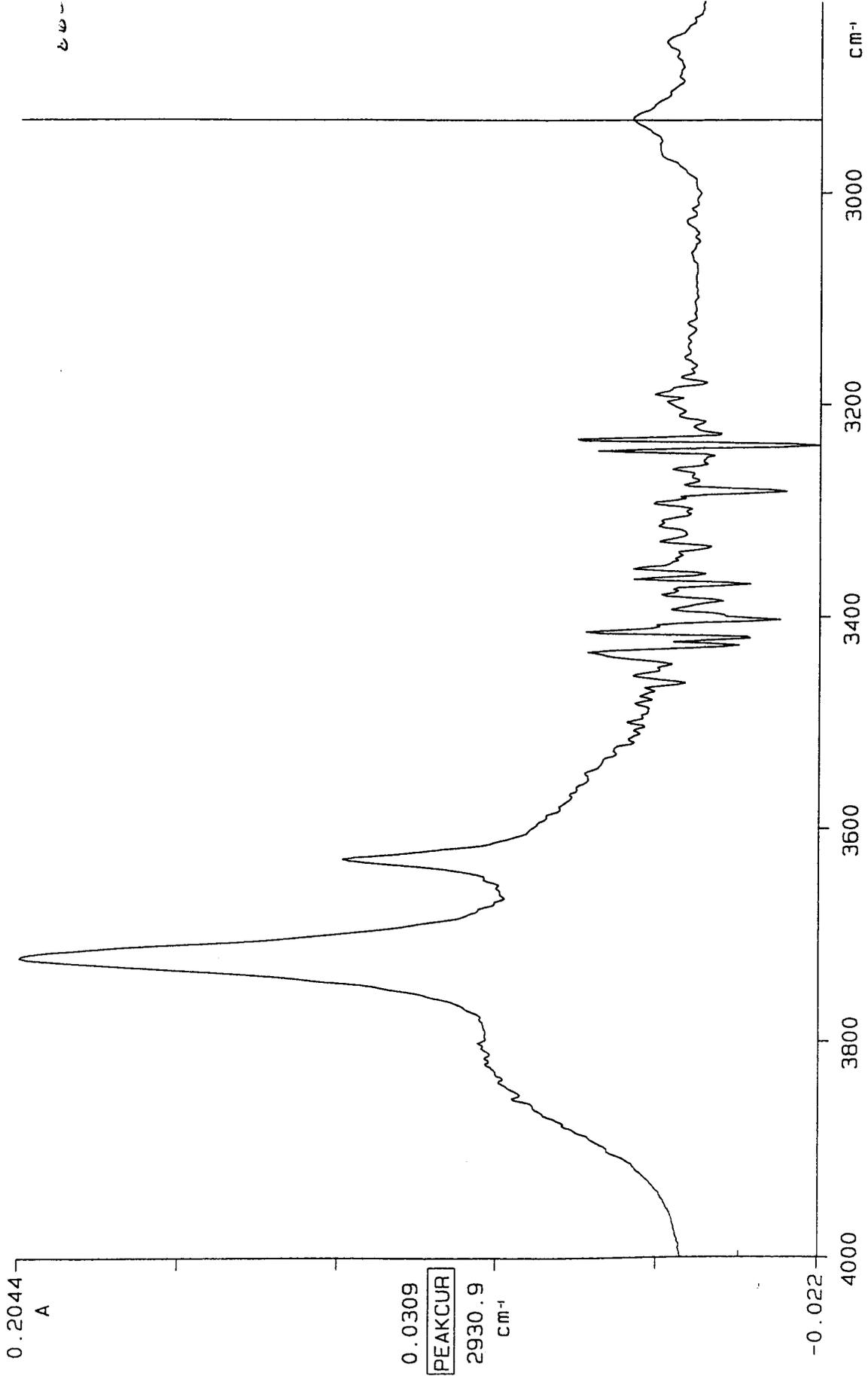
PERKIN ELMER

(14/07/02

Dr

20-03-1139-12

(413.2)



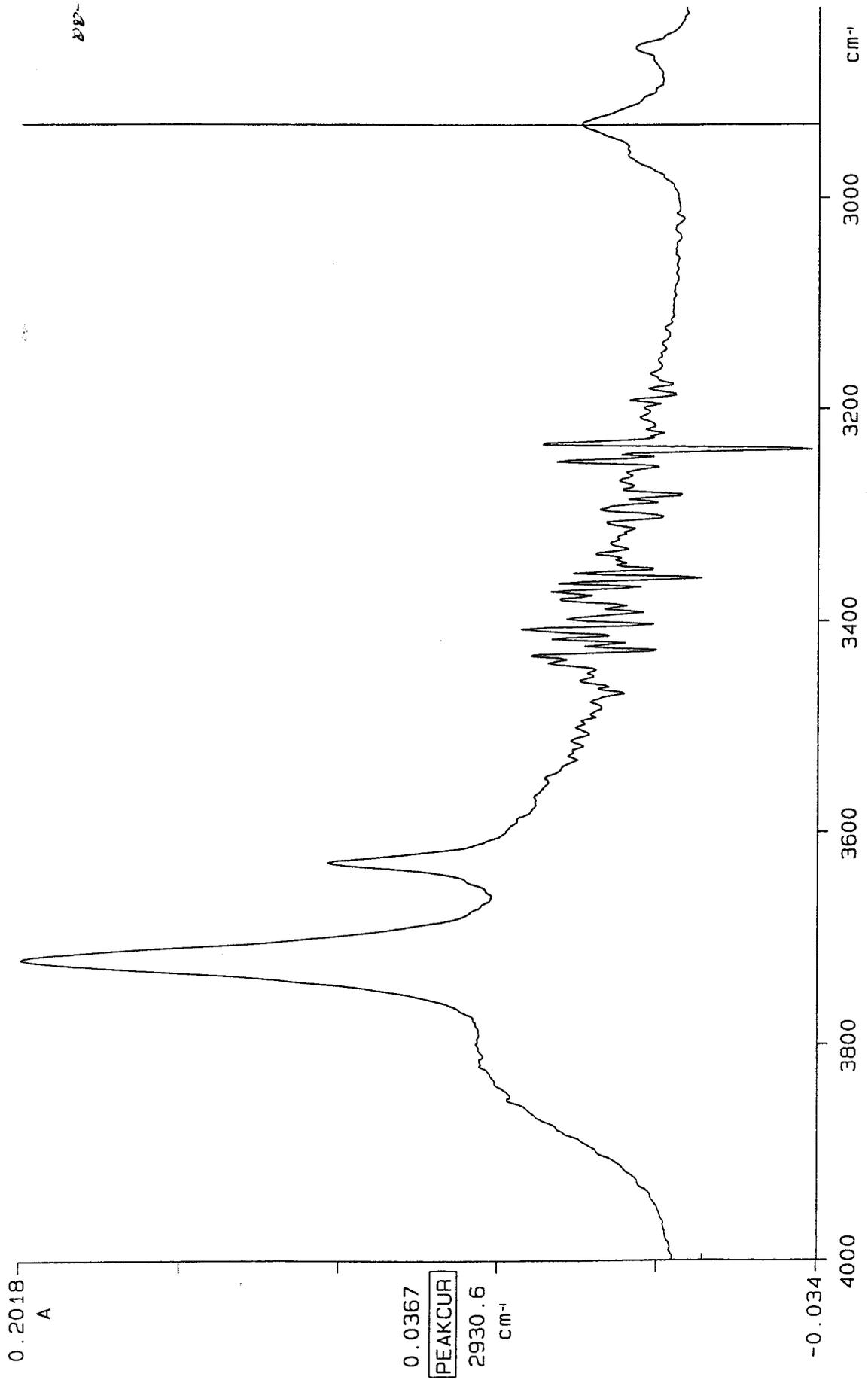
00/04/07 12:21 J.H.MOON

X: 1 scan, 4.0cm⁻¹

PERKIN ELMER

04/07/00
Z

00-03-1139-13
(413.2)



00/04/07 12:51 J.H.MOON
X: 1 scan, 4.0cm-1

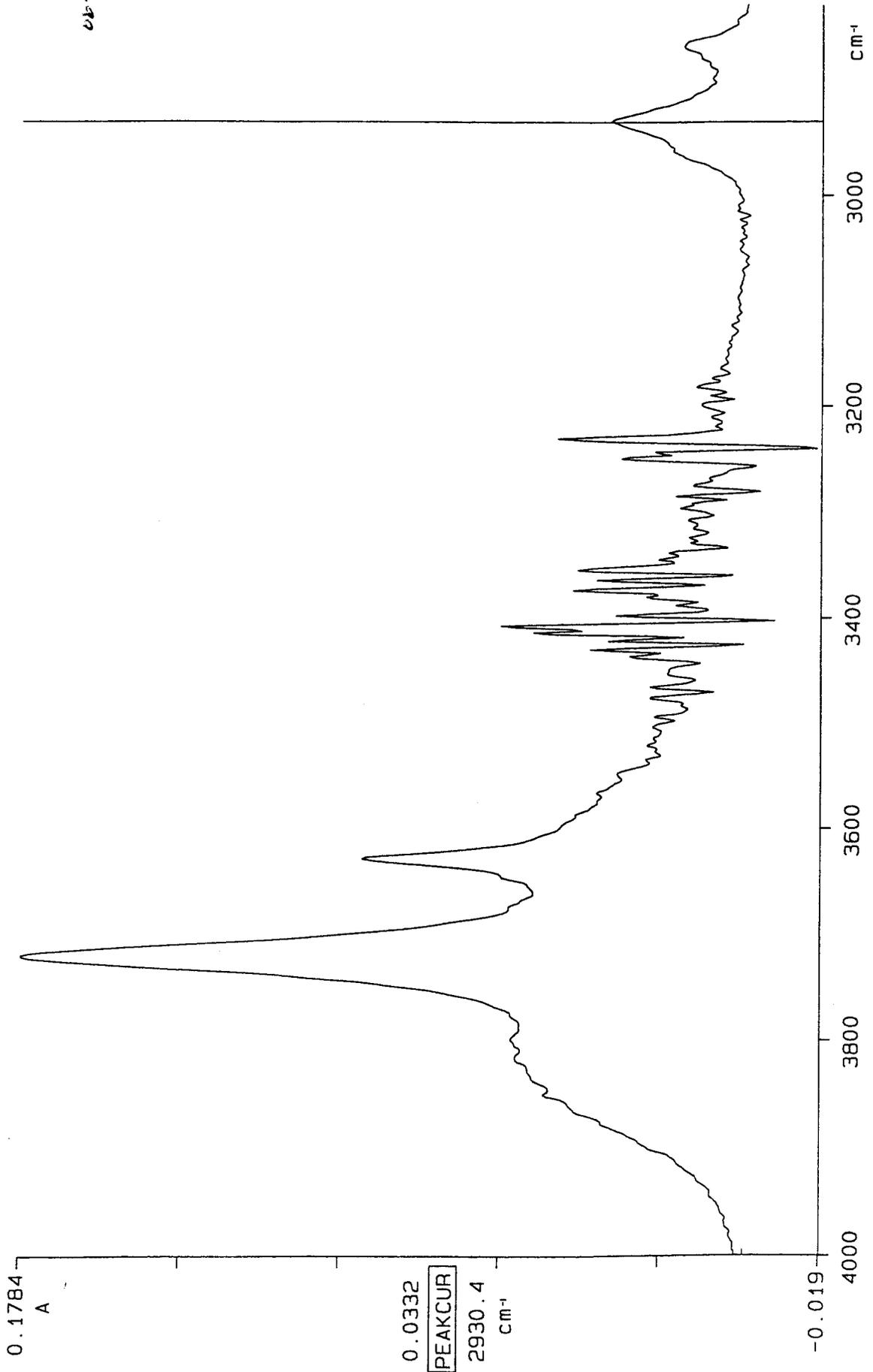
PERKIN ELMER

(

24/07/00
R

05-03-1138-11

(4/3, 2)



00/04/07 13:14 J.H.MOON

X: 1 scan, 4.0cm-1



**TRPH (EPA 418.1)
Raw Data**

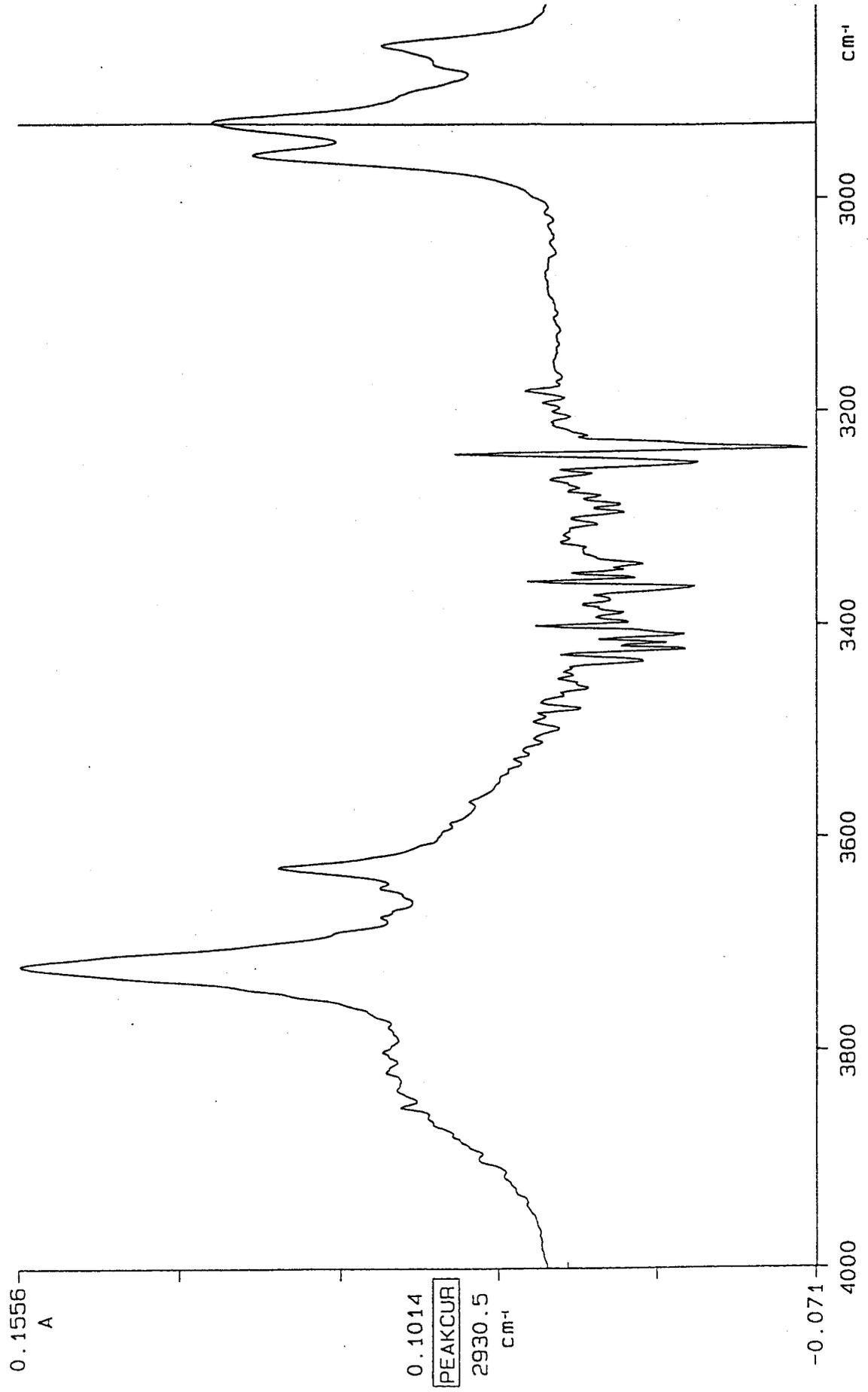
Geomatrix Consultants

PERKIN ELMER

03/28/00

2

Std. 10 ppm



00/03/28 09:04 J.H.MOON

X: 1 scan, 4.0cm-1

PERKIN ELMER

03/28/00
pc
Std. 20 ppm

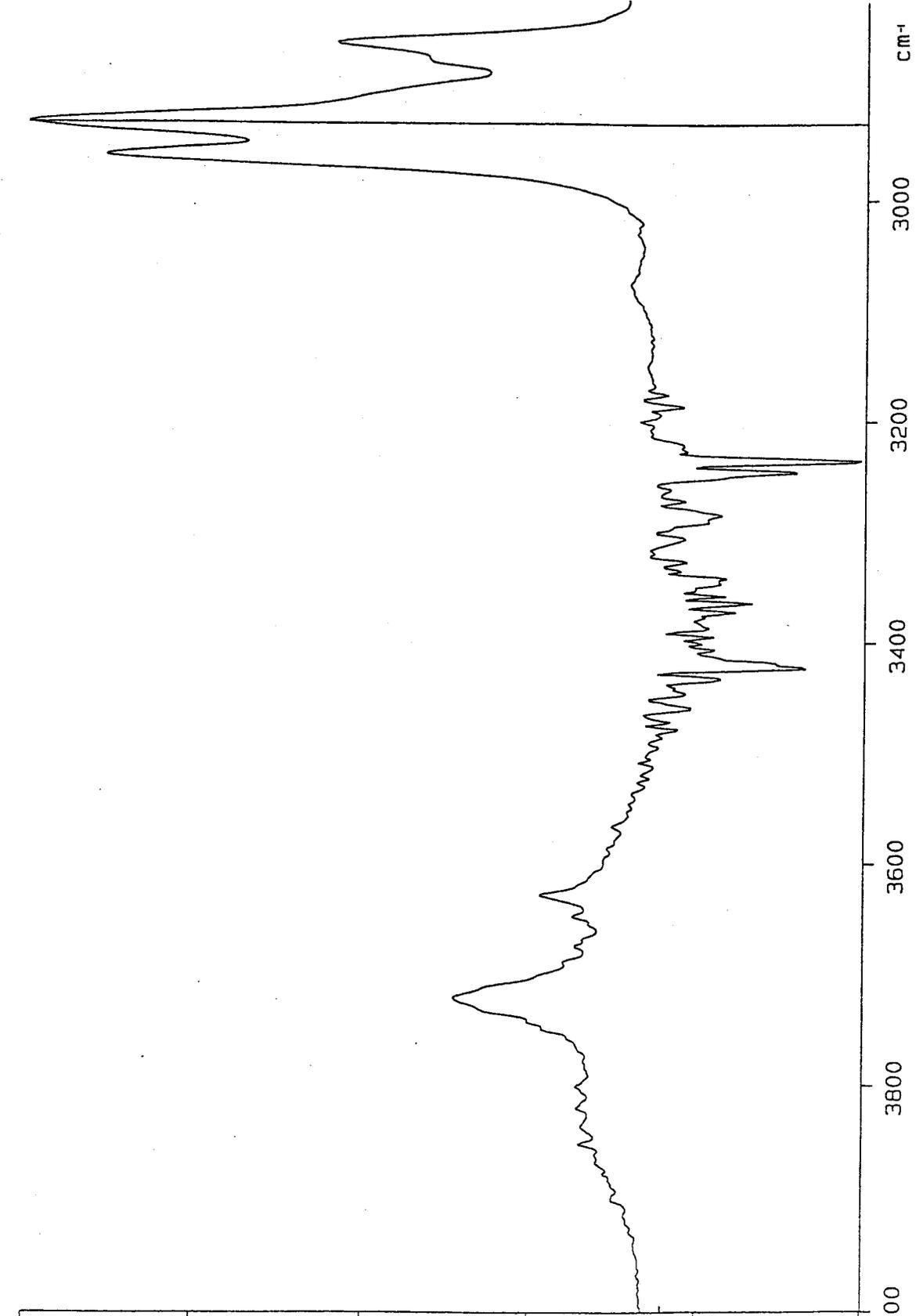
0.1974
A

0.1974

PEAKCUR

2930.7
cm⁻¹

-0.063



00/03/28 09:09 J.H.MOON

X: 1 scan, 4.0cm-1

PERKIN ELM

0.4149

A

0.4149

PEAKCUR

2930.8

cm⁻¹

-0.047

4000

3800

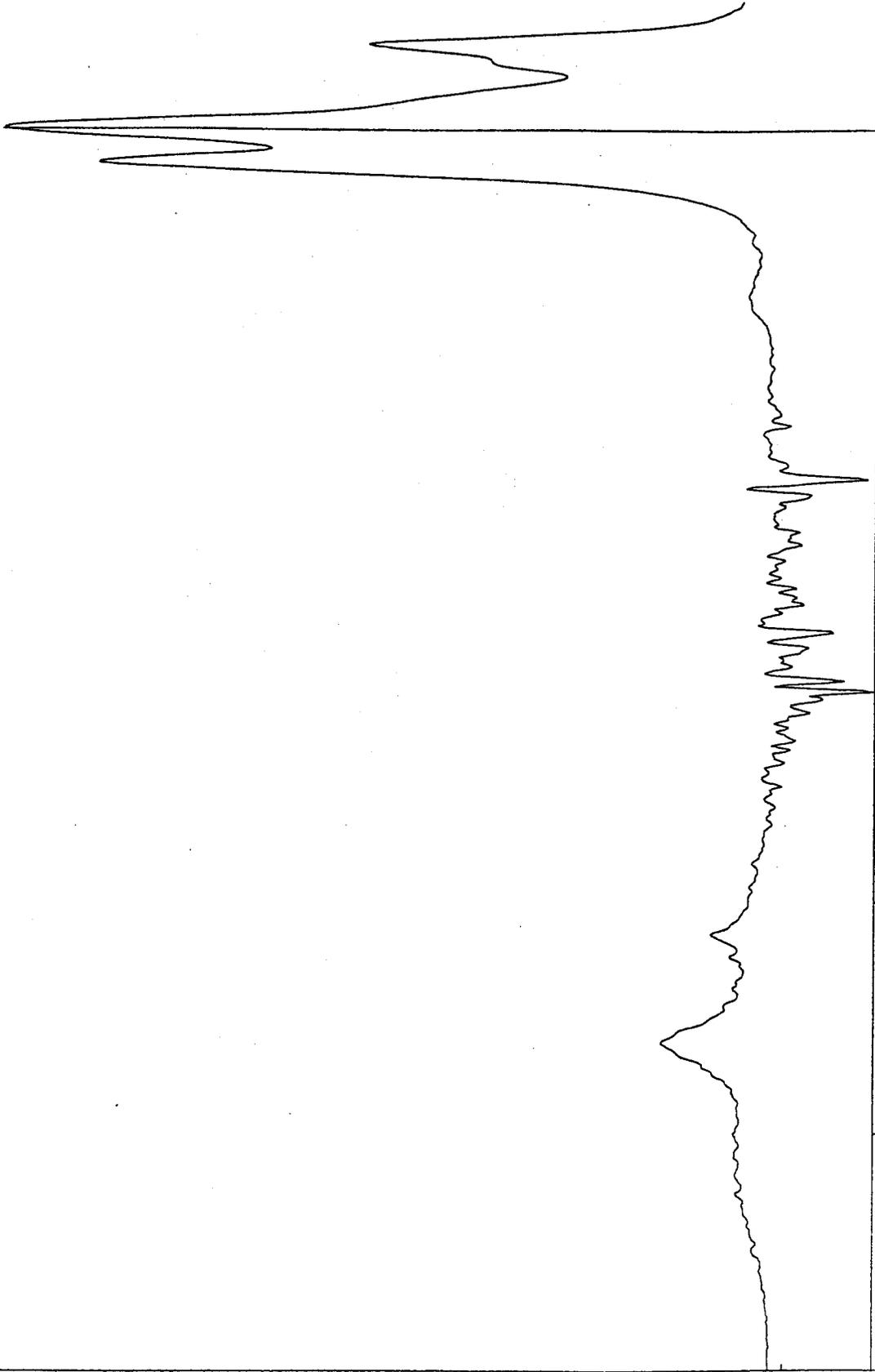
3600

3400

3200

3000

cm⁻¹



00/03/28 09:13 J.H.MOON

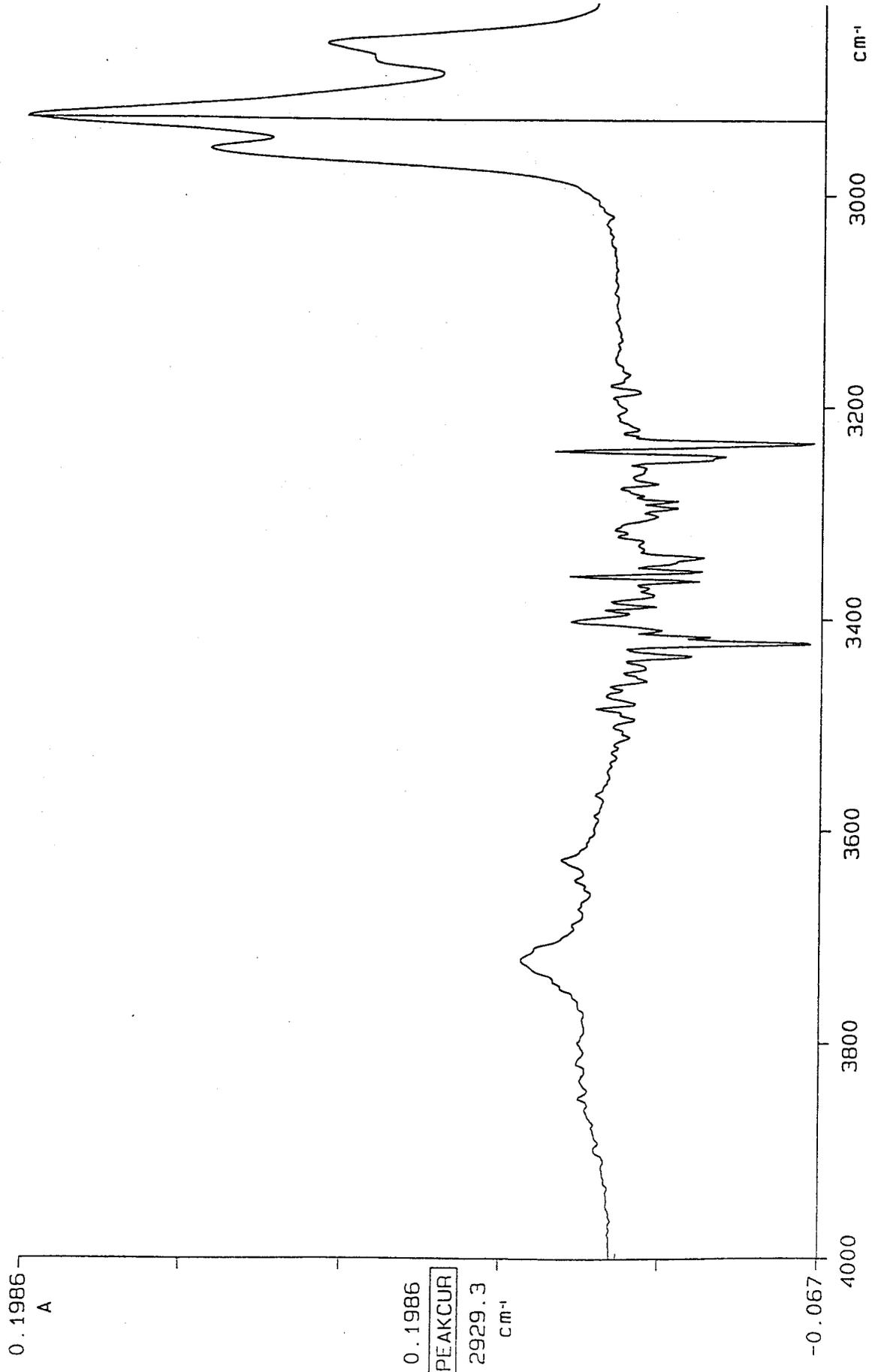
X: 1 scan, 4.0cm-1

03/28/00
gr

Std. 40 119

PERKIN ELMER

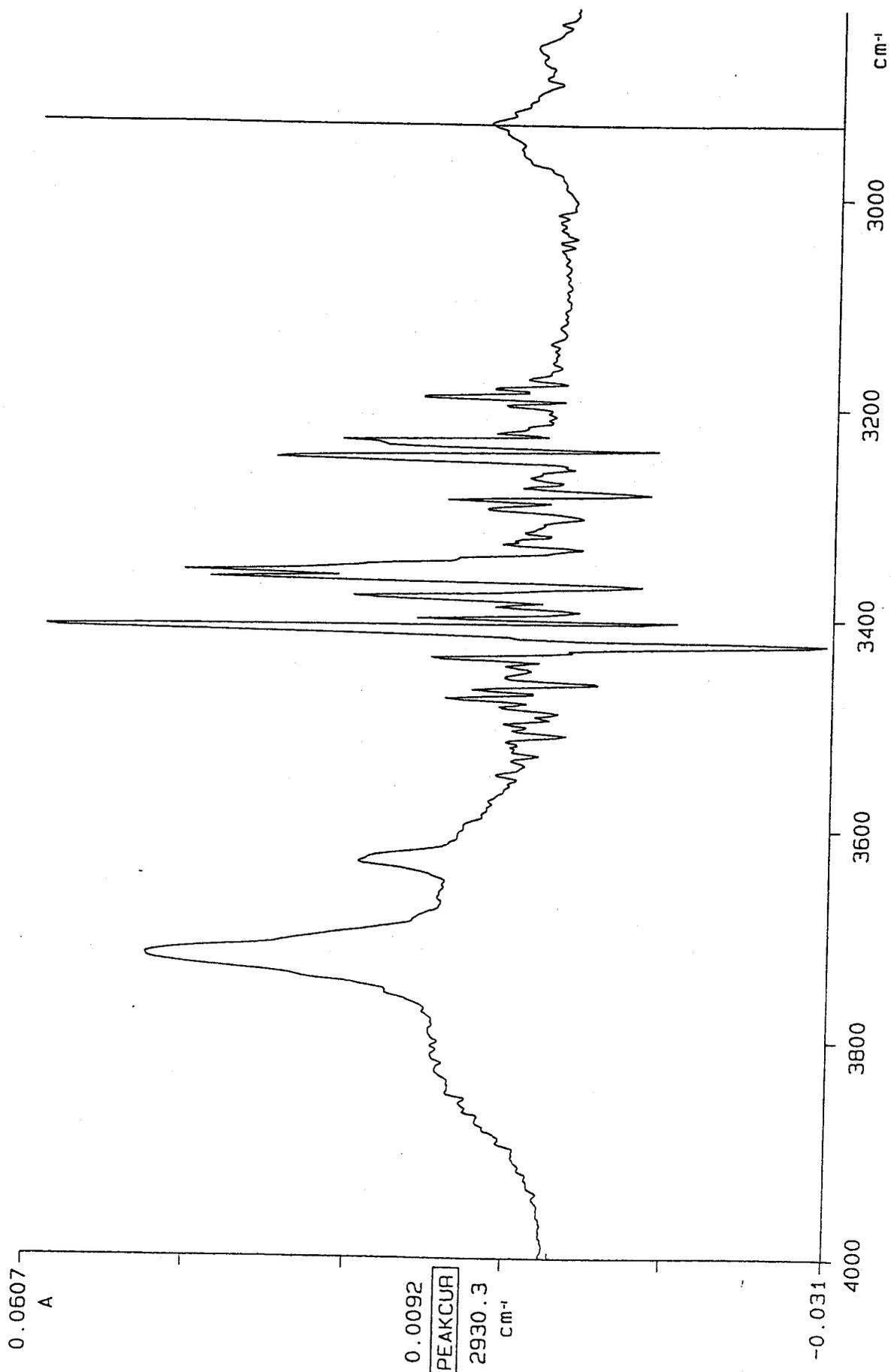
03/28/00
r
2nd SRC



00/03/28 09:17 J.H. MOON
X: 1 scan, 4.0cm-1

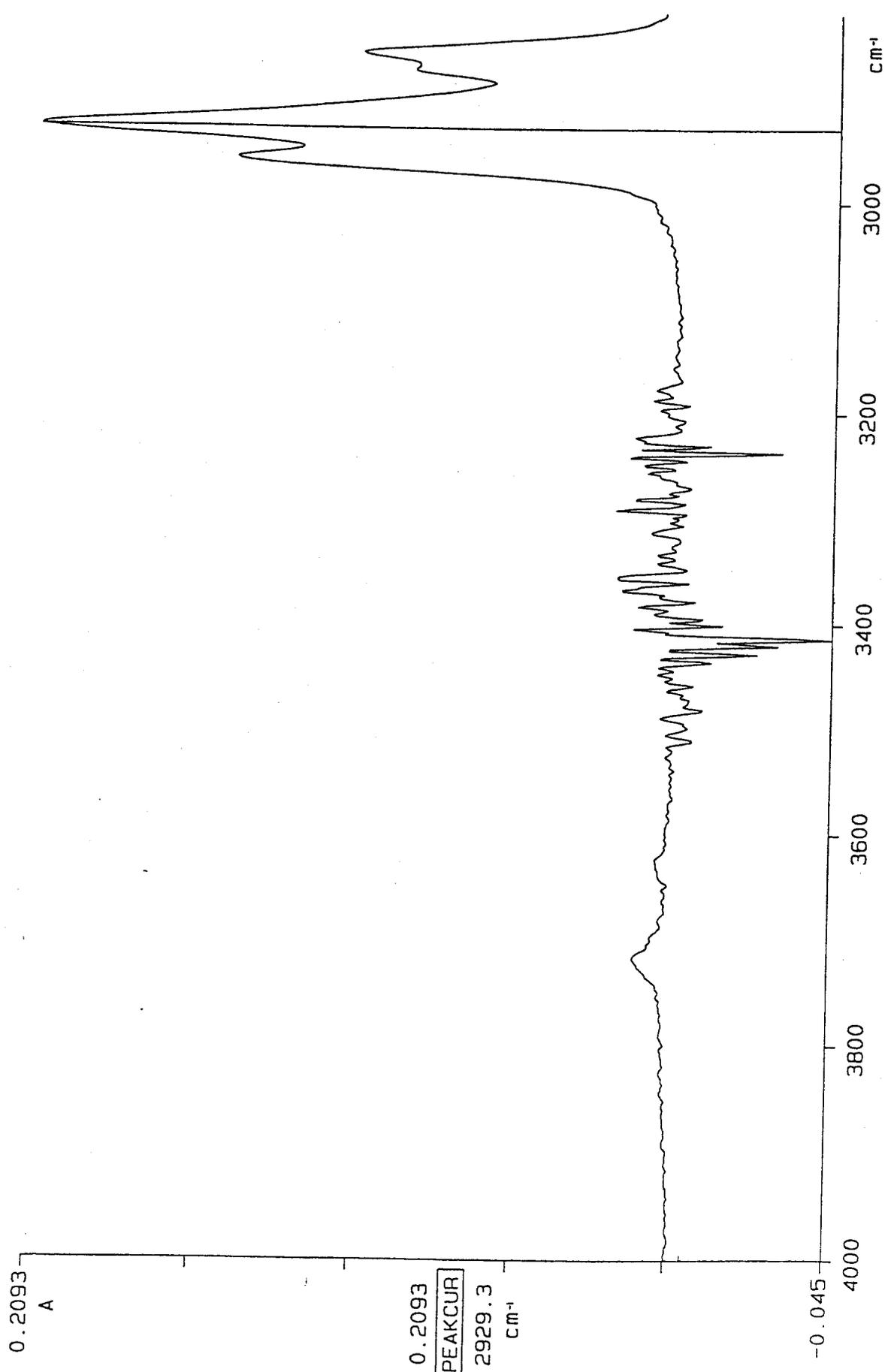
PERKIN ELMER

04/07/00
MB



00/04/07 11:59 J.H.MOON
X: 1 scan, 4.0cm⁻¹

PERKIN ELMER



04/07/00
Z
LCS
X4

0.2093
A

0.2093
PEAKCUR
2929.3
cm⁻¹

-0.045

4000 3800 3600 3400 3200 3000 cm⁻¹

00/04/07 13:51 J.H. MOON
X: 1 scan, 4.0cm⁻¹

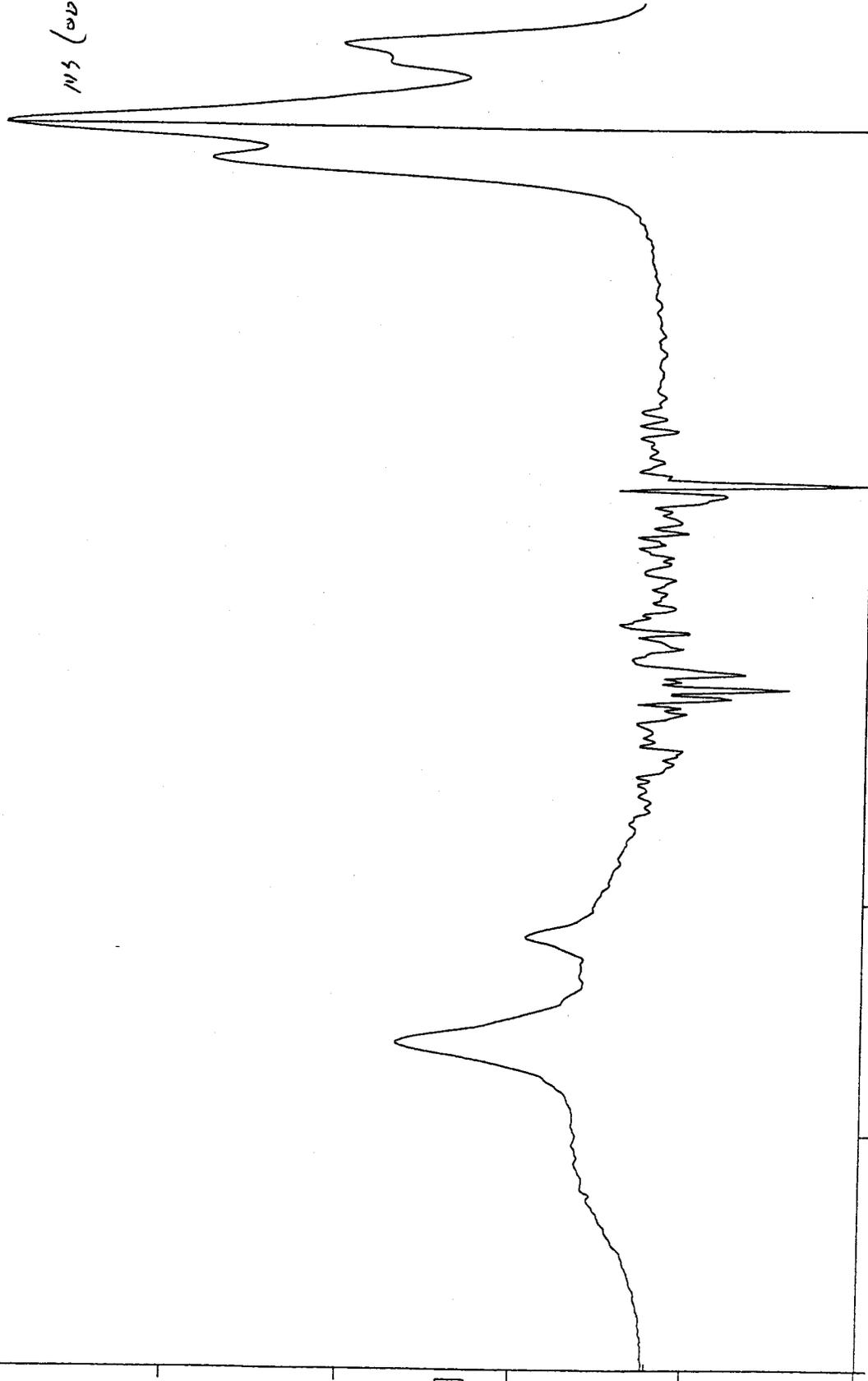
PERKIN ELM

0.2115
A

0.2115
PEAKCUR
2929.3
CM⁻¹

-0.067

4000 3800 3600 3400 3200 3000 CM⁻¹



(04/07/00
JH

MS (00-03-1139-14
X4
(418.1)

00/04/07 14:26 J.H.MOON
X: 1 scan, 4.0cm-1

PERKIN ELMER

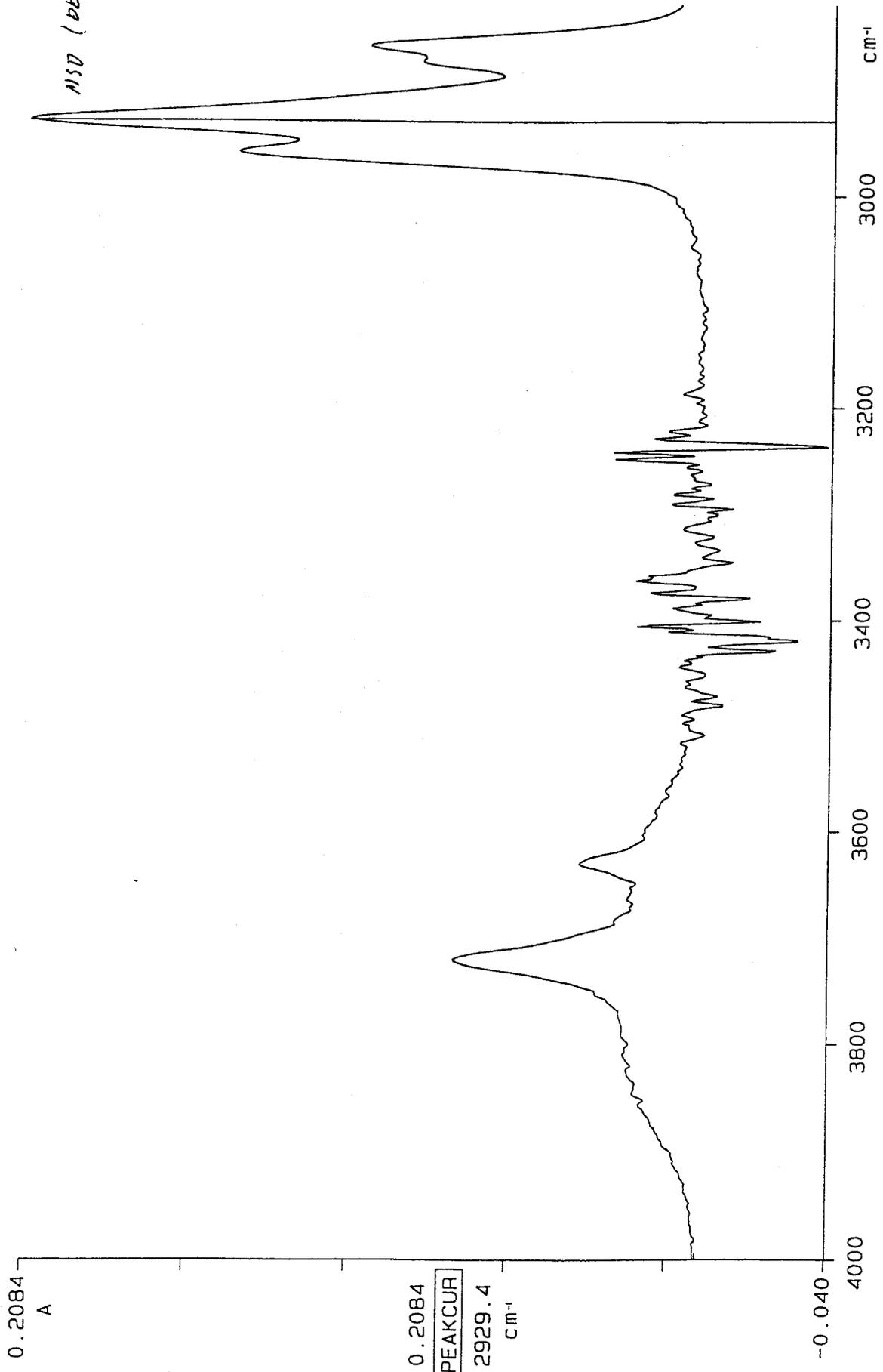
04/07/00

JK

MSD (06-03-1138-1)

X4

(418.1)



00/04/07 14:27 J.H.MOON

X: 1 scan, 4.0cm-1

PERKIN ELMER

0.1190

A

0.0264

PEAKCUR

2930.2

cm⁻¹

-0.049

4000

3800

3600

3400

3200

3000

cm⁻¹

04/07/00

f-

00-03-1138-10

(418.1)

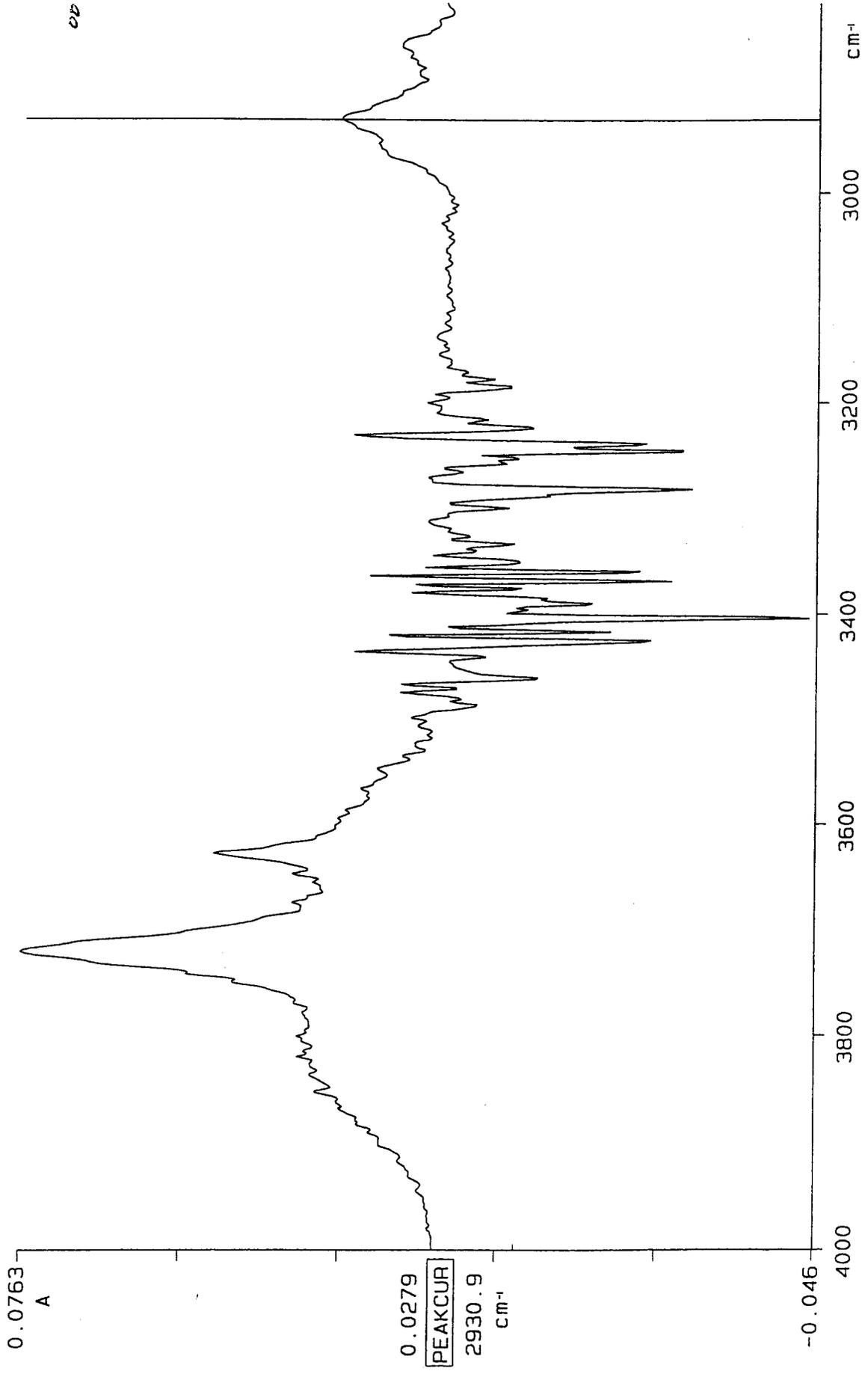
00/04/07 12:39 J.H.MOON

X: 1 scan, 4.0cm-1

PERKIN EL

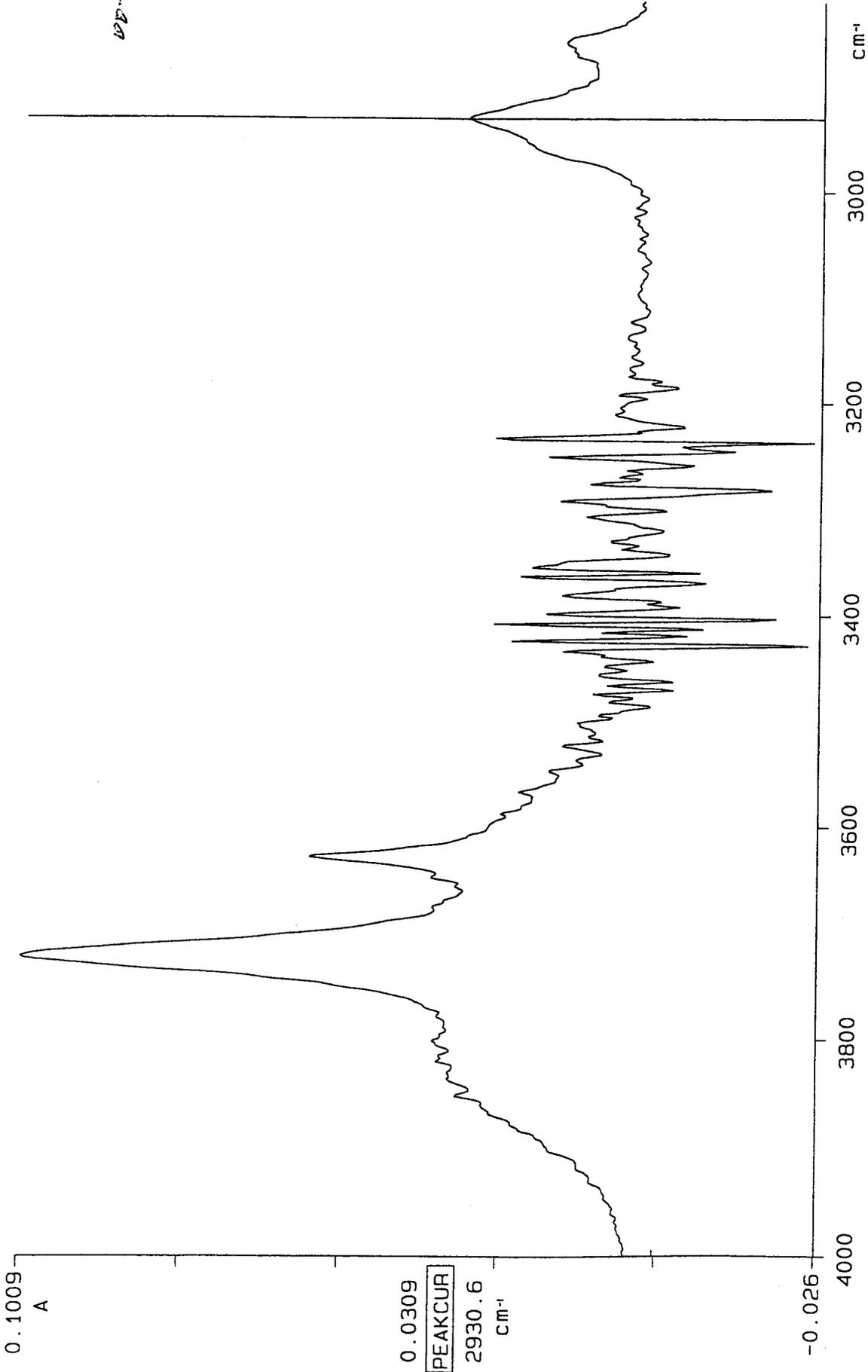
(04/07/00
A

00-03-1135-
(418.1)



00/04/07 13:02 J.H.MOON
X: 1 scan, 4.0cm-1

PERKIN ELMER



04/07/00
JK

00-03-7139-1
(4/B.1)

00/04/07 13:20 J.H.MOON

X: 1 scan, 4.0cm-1



**Pesticides/PCBs (EPA 8081A/8082)
Raw Data**

Geomatrix Consultants



Initial Calibration Raw Data

Geomatrix Consultants

GC-17, Calculation of Initial Calibrator, Pest0330F.mth, Front Column----DB-608
 Date of run: 3/30/00
 Data path : \000330

Analyte	Concentration(ppb)										RF5	RF4	RF3	RF2	RF1	80	60	40	20	10	%RSD
	AREA																				
TCMX (Sur.)	62154	127887	256817	350692	452029	6215	6394	6420	5845	5650	6105	343	6								
alpha-BHC	28290	64163	161748	242644	335546	2829	3208	4044	4044	4194	3664	607	17								
gamma-BHC	26558	62432	152794	225881	314333	2656	3122	3820	3765	3929	3458	549	16								
beta-BHC	17140	40213	88152	124875	165496	1714	2011	2204	2081	2069	2016	183	9								
Heptachlor	38858	79709	173173	247362	330431	3886	3985	4329	4123	4130	4091	168	4								
delta-BHC	23068	47558	122923	187324	273764	2307	2378	3073	3122	3422	2860	492	17								
Aldrin	30153	65586	140965	215030	278190	3015	3279	3524	3584	3477	3376	232	7								
Heptachlor Epoxide	33929	70671	152724	217378	292687	3393	3634	3818	3623	3659	3605	157	4								
gamma-Chlordane	37251	75916	158676	227018	305196	3725	3796	3967	3784	3815	3817	90	2								
Alpha Chlordane	33467	70800	154345	220997	299474	3347	3540	3859	3683	3743	3634	198	5								
Endosulfan I	31198	66587	145359	209502	284757	3120	3329	3634	3492	3559	3427	205	6								
4,4'-DDE	28170	61281	133311	194190	267508	2817	3064	3333	3237	3344	3159	222	7								
Dieldrin	27859	59141	129922	189365	261817	2786	2957	3248	3156	3273	3084	208	7								
Endrin	18664	39369	88746	133191	198953	1866	1968	2219	2220	2487	2152	243	11								
4,4'-DDD	15908	34964	79638	118088	164390	1591	1748	1991	1968	2055	1871	194	10								
Endosulfan II	25539	54527	116189	165186	221904	2554	2726	2905	2753	2774	2742	126	5								
4,4'-DDT	16311	35601	78844	114454	166695	1631	1780	1971	1908	2084	1875	175	9								
Endrin Aldehyde	24305	49137	102626	134699	176948	2431	2457	2566	2245	2212	2382	150	6								
Endosulfan sulfate	22497	46201	96728	135744	185970	2250	2310	2418	2262	2325	2313	67	3								
Methoxychlor	11156	23640	48304	68526	94584	1116	1182	1208	1142	1182	1166	37	3								
Endrin Ketone	24149	55990	123088	174496	229642	2415	2800	3077	2908	2871	2814	245	9								
DCB (Sur.)	82071	160443	308428	412394	535641	8207	8022	7711	6873	6696	7502	681	9								

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Data File Name      : G:\HPCHEM\2\DATA\000328\036F0101.D
Operator           : GC-17                               Page Number      : 1
Instrument         : GC 17 ECD                           Vial Number     : 36
Sample Name       : PEST-10 S112299B                     Injection Number : 1
Run Time Bar Code:                                       Sequence Line    : 1
Acquired on      : 29 Mar 00 08:24 PM                     Instrument Method: 8081.MTH
Report Created on: 01 Apr 00 03:21 PM                     Analysis Method  : PST0330F.MTH
Last Recalib on  : 30 MAR 00 03:57 PM                     Sample Amount    : 0
Multiplier       : 1                                       ISTD Amount     :
  
```

Calibration Table

Pk#	RT	Lvl	ng/ml	Amt/Area	Ref Istd I#	Name
1	7.225	1	20.0	3.2178e-004	1	2,4,5,6-Tetrachloro-...
		2	40.0	3.1278e-004		
		3	80.0	3.1151e-004		
		4	120.0	3.4218e-004		
		5	160.0	3.5396e-004		
2	9.200	1	10.0	3.5348e-004	1	Alpha-BHC
		2	20.0	3.117e-004		
		3	40.0	2.473e-004		
		4	60.0	2.4728e-004		
		5	80.0	2.3842e-004		
3	10.602	1	10.0	3.7653e-004	1	Gamma-BHC
		2	20.0	3.2035e-004		
		3	40.0	2.6179e-004		
		4	60.0	2.6563e-004		
		5	80.0	2.5451e-004		
4	10.820	1	10.0	5.8344e-004	1	Beta-BHC
		2	20.0	4.9735e-004		
		3	40.0	4.5376e-004		
		4	60.0	4.8048e-004		
		5	80.0	4.8339e-004		
5	11.943	1	10.0	2.5735e-004	1	Heptachlor
		2	20.0	2.5091e-004		
		3	40.0	2.3098e-004		
		4	60.0	2.4256e-004		
		5	80.0	2.4211e-004		
6	12.374	1	10.0	4.3351e-004	1	Delta-BHC
		2	20.0	4.2054e-004		
		3	40.0	3.2541e-004		
		4	60.0	3.203e-004		
		5	80.0	2.9222e-004		
7	13.436	1	10.0	3.3165e-004	1	Aldrin
		2	20.0	3.0495e-004		
		3	40.0	2.8376e-004		

Method: G:\HPCHEM\2\METHODS\PST0330F.MTH

		5	80.0	2.8757e-004	
8	16.198	1	10.0	2.9473e-004	1 Heptachlor Epoxide
		2	20.0	2.83e-004	
		3	40.0	2.6191e-004	
		4	60.0	2.7602e-004	
		5	80.0	2.7333e-004	
9	17.078	1	10.0	2.6845e-004	1 Gamma Chlordane
		2	20.0	2.6345e-004	
		3	40.0	2.5209e-004	
		4	60.0	2.643e-004	
		5	80.0	2.6213e-004	
10	17.972	1	10.0	2.988e-004	1 Alpha Chlordane
		2	20.0	2.8249e-004	
		3	40.0	2.5916e-004	
		4	60.0	2.715e-004	
		5	80.0	2.6713e-004	
11	18.159	1	10.0	3.2053e-004	1 Endosulfan I
		2	20.0	3.0036e-004	
		3	40.0	2.7518e-004	
		4	60.0	2.8639e-004	
		5	80.0	2.8094e-004	
12	19.458	1	10.0	3.5498e-004	1 4,4'-DDE
		2	20.0	3.2636e-004	
		3	40.0	3.0005e-004	
		4	60.0	3.0898e-004	
		5	80.0	2.9906e-004	
13	19.947	1	10.0	3.5896e-004	1 Dieldrin
		2	20.0	3.3817e-004	
		3	40.0	3.0788e-004	
		4	60.0	3.1685e-004	
		5	80.0	3.0556e-004	
14	21.630	1	10.0	5.3579e-004	1 Endrin
		2	20.0	5.0801e-004	
		3	40.0	4.5073e-004	
		4	60.0	4.5048e-004	
		5	80.0	4.0211e-004	
15	22.001	1	10.0	6.286e-004	1 4,4'-DDD
		2	20.0	5.7202e-004	
		3	40.0	5.0228e-004	
		4	60.0	5.081e-004	
		5	80.0	4.8665e-004	
16	22.240	1	10.0	3.9156e-004	1 Endosulfan II
		2	20.0	3.6679e-004	
		3	40.0	3.4427e-004	
		4	60.0	3.6323e-004	
		5	80.0	3.6052e-004	
17	22.878	1	10.0	6.1309e-004	1 4,4'-DDT

Sample ID	Retention Time	Scan	Abundance	Concentration	Compound
18	23.162	3	40.0	5.0733e-004	1 Endrin Aldehyde
		4	60.0	5.2423e-004	
		5	80.0	4.7992e-004	
		1	10.0	4.1144e-004	
		2	20.0	4.0703e-004	
19	23.493	3	40.0	3.8976e-004	1 Endosulfan Sulfate
		4	60.0	4.4544e-004	
		5	80.0	4.5211e-004	
		1	10.0	4.4451e-004	
		2	20.0	4.3289e-004	
20	25.248	3	40.0	4.1353e-004	1 Methoxychlor
		4	60.0	4.4201e-004	
		5	80.0	4.3018e-004	
		1	10.0	8.964e-004	
		2	20.0	8.4602e-004	
21	25.807	3	40.0	8.2808e-004	1 Endrin Ketone
		4	60.0	8.7558e-004	
		5	80.0	8.4581e-004	
		1	10.0	4.1409e-004	
		2	20.0	3.5721e-004	
22	29.982	3	40.0	3.2497e-004	1 Decachlorobiphenyl
		4	60.0	3.4385e-004	
		5	80.0	3.4837e-004	
		1	20.0	2.4369e-004	
		2	40.0	2.4931e-004	
		3	80.0	2.5938e-004	
		4	120.0	2.9098e-004	
		5	160.0	2.9871e-004	

Calibration Settings

Title:

Reference window: 0.300 minutes
Non-reference window: 0.300 minutes
Units of amount: ng/ml
Multiplier: 1.0
RF uncal peaks: 0.0
ISTD# to adjust uncal peaks: 0
Sample Amount: 0.0

Sample ISTD Information

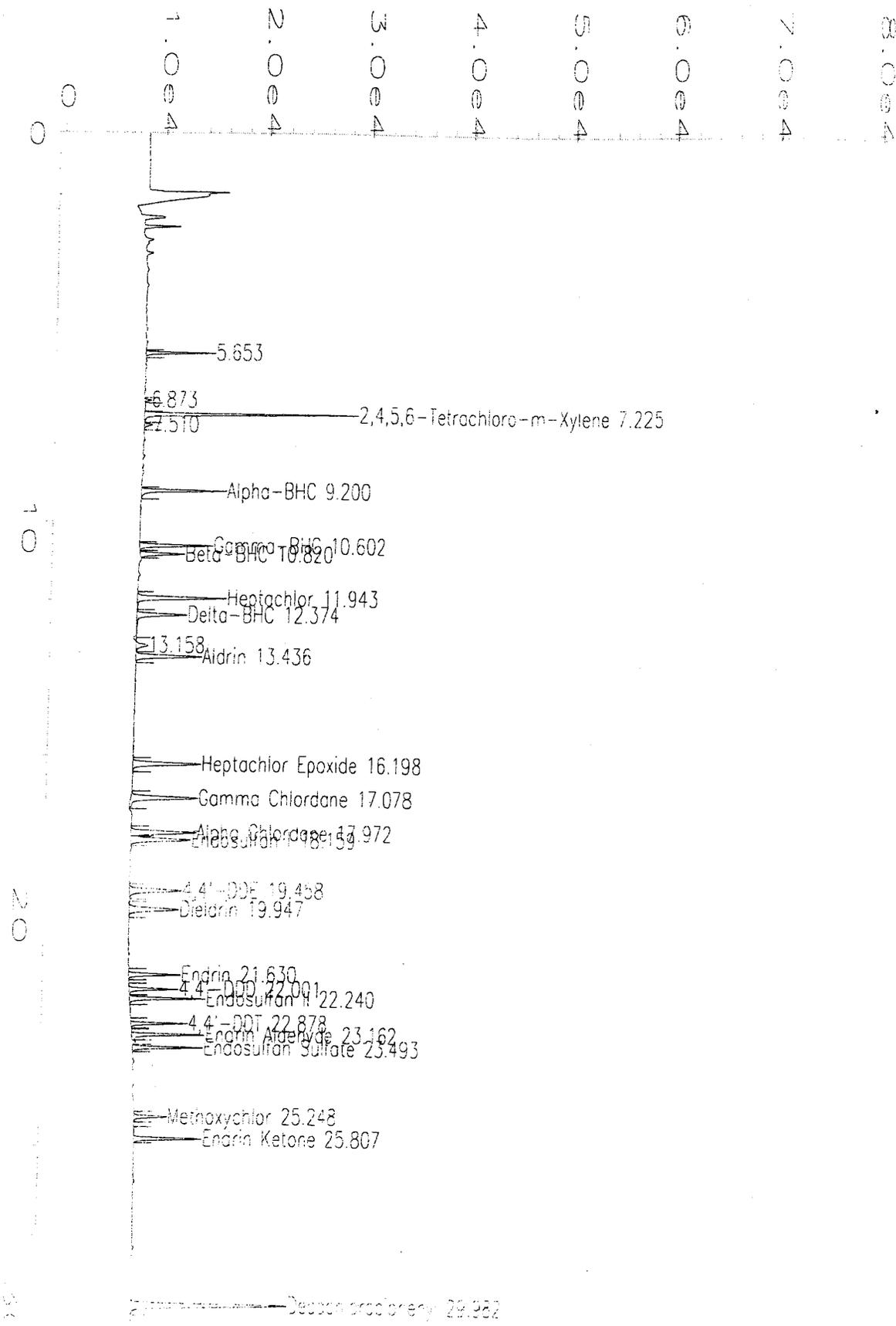
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Data File Name   : G:\HPCHEM\2\DATA\000328\036F0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : PEST-10 S112299B
Run Time Bar Code:
Acquired on    : 29 Mar 00 08:24 PM
Report Created on: 01 Apr 00 03:19 PM
Last Recalib on : 30 MAR 00 03:57 PM
Multiplier     : 1
Page Number    : 1
Vial Number    : 36
Injection Number : 1
Sequence Line  : 1
Instrument Method: 8081.MTH
Analysis Method : PST0330F.MTH
Sample Amount  : 0
ISTD Amount    :
  
```

Sig. 1 in G:\HPCHEM\2\DATA\000328\036F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.225	62154	BV	0.045	1	17.119	2,4,5,6-Tetrachloro-m-Xylene
9.200	28290	BB	0.051	1	10.693	Alpha-BHC
10.602	26558	BV	0.057	1	10.410	Gamma-BHC
10.820	17140	PF	0.061	1	8.748	Beta-BHC
11.943	38858	MV	0.074	1	9.750	Heptachlor
12.374	23068	VV	0.078	1	12.204	Delta-BHC
13.436	30153	VM	0.078	1	9.504	Aldrin
16.198	33929	BB	0.079	1	9.548	Heptachlor Epoxide
17.078	37251	BV	0.087	1	9.596	Gamma Chlordane
17.972	33467	BV	0.082	1	9.662	Alpha Chlordane
18.159	31198	VB	0.085	1	9.753	Endosulfan I
19.458	28170	BB	0.086	1	10.001	4,4'-DDE
19.947	27859	BB	0.088	1	10.189	Dieldrin
21.630	18664	BB	0.057	1	11.585	Endrin
22.001	15908	BB	0.050	1	10.458	4,4'-DDD
22.240	25539	BB	0.054	1	9.342	Endosulfan II
22.878	16311	BB	0.046	1	10.736	4,4'-DDT
23.162	24305	BV	0.052	1	8.551	Endrin Aldehyde
23.493	22497	VB	0.051	1	9.584	Endosulfan Sulfate
25.248	11156	BB	0.054	1	9.582	Methoxychlor
25.807	24149	BB	0.057	1	8.733	Endrin Ketone
29.982	82071	BB	0.086	1	17.301	Decachlorobiphenyl

User Modified



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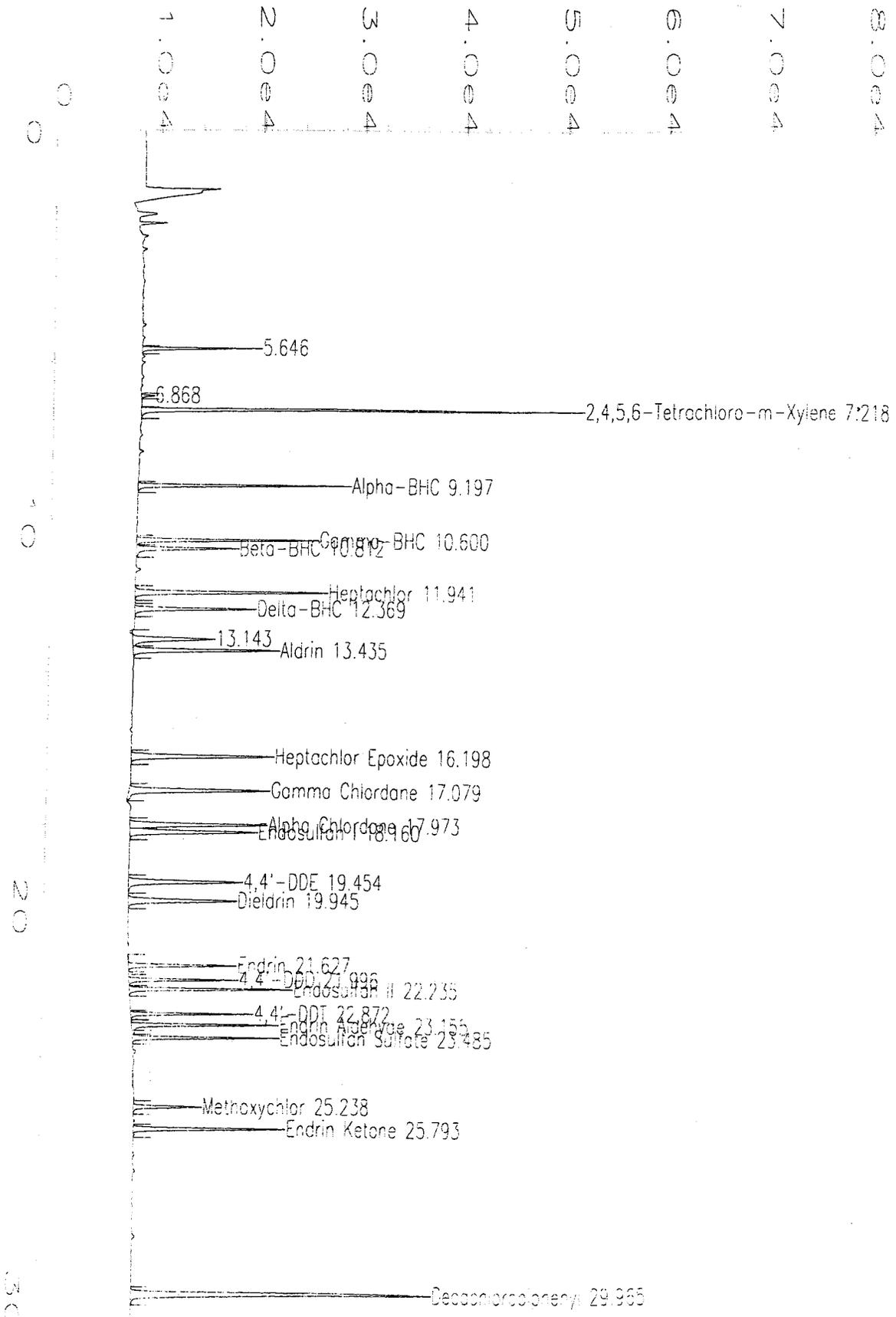
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Data File Name   : G:\HPCHEM\2\DATA\000328\035F0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : PEST-20 S112299C
Run Time Bar Code:
Acquired on    : 29 Mar 00 07:46 PM
Report Created on: 30 Mar 00 03:59 PM
Last Recalib on : 30 Mar 00 03:57 PM
Multiplier     : 1

Page Number    : 1
Vial Number    : 35
Injection Number : 1
Sequence Line  : 1
Instrument Method: 8081.MTH
Analysis Method : PST0330F.MTH
Sample Amount  : 0
ISTD Amount    :
  
```

Sig. 1 in G:\HPCHEM\2\DATA\000328\035F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.218	127887	BB	0.044	1	39.952	2,4,5,6-Tetrachloro-m-Xylene
9.197	64163	BB	0.047	1	18.820	Alpha-BHC
10.600	62432	BV	0.053	1	19.138	Gamma-BHC
10.812	40213	VB	0.061	1	19.763	Beta-BHC
11.941	79709	BB	0.065	1	19.534	Heptachlor
12.369	47558	BB	0.061	1	18.999	Delta-BHC
13.435	65586	VB	0.070	1	19.470	Aldrin
16.198	70671	BB	0.078	1	19.533	Heptachlor Epoxide
17.079	75916	BV	0.084	1	19.731	Gamma Chlordane
17.973	70800	BV	0.081	1	19.549	Alpha Chlordane
8.160	66587	VB	0.083	1	19.586	Endosulfan I
19.454	61281	BB	0.084	1	19.746	4,4'-DDE
19.945	59141	BB	0.086	1	19.598	Dieldrin
21.627	39369	BB	0.057	1	19.751	Endrin
21.996	34964	BV	0.050	1	19.471	4,4'-DDD
22.235	54527	VB	0.052	1	19.740	Endosulfan II
22.872	35601	BB	0.046	1	19.864	4,4'-DDT
23.155	49137	BV	0.052	1	19.589	Endrin Aldehyde
23.485	46201	VB	0.049	1	19.835	Endosulfan Sulfate
25.238	23640	BB	0.054	1	20.211	Methoxychlor
25.793	55990	BB	0.058	1	19.665	Endrin Ketone
29.965	160443	BB	0.084	1	40.478	Decachlorobiphenyl



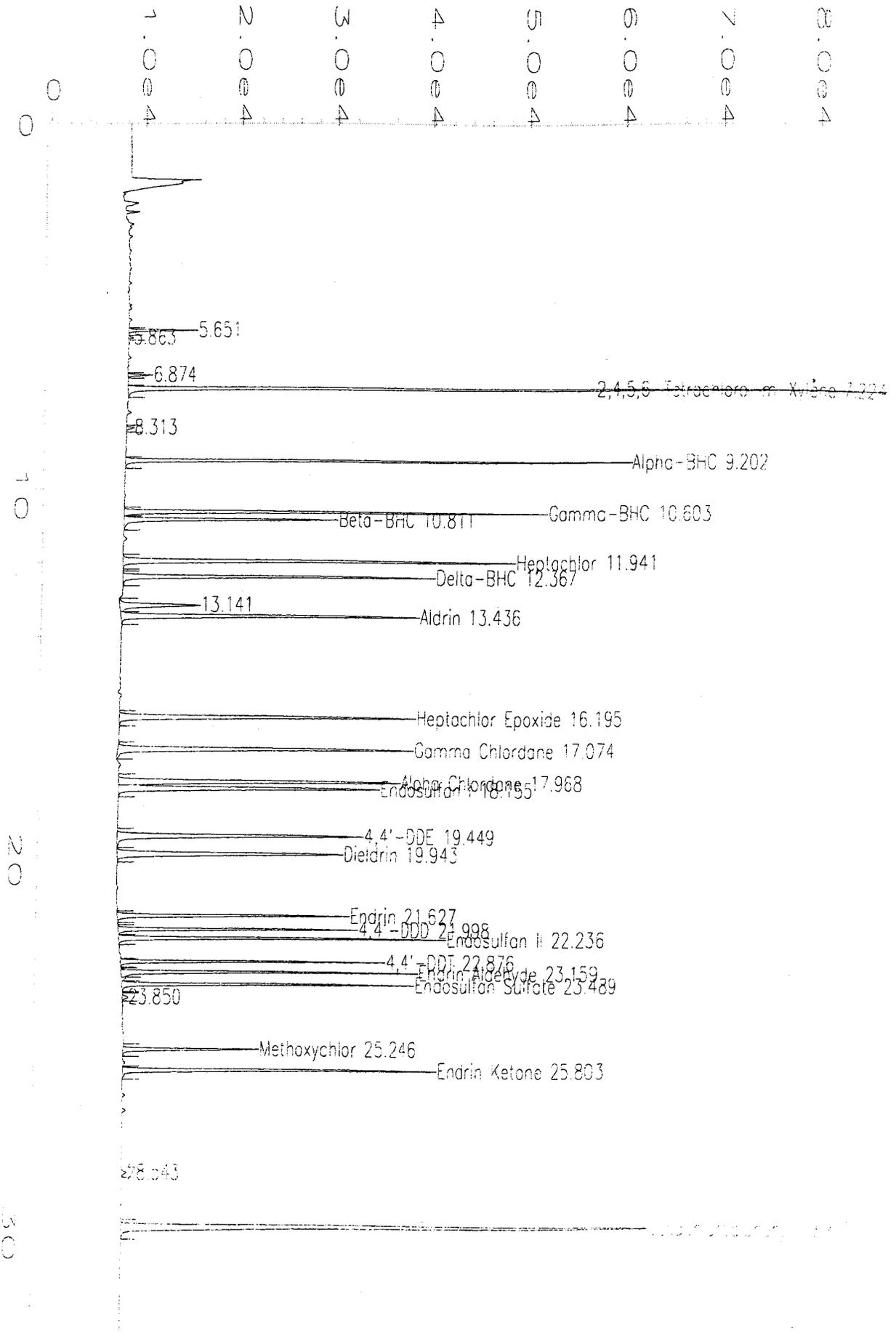
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Data File Name   : G:\HPCHEM\2\DATA\000328\034F0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 34
Sample Name     : PEST-40 S112299D                   Injection Number : 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 29 Mar 00 07:09 PM                 Instrument Method: 8081.MTH
Report Created on: 30 Mar 00 04:02 PM                Analysis Method  : PST0330F.MTH
Last Recalib on : 30 Mar 00 03:57 PM                Sample Amount   : 0
Multiplier     : 1                                   ISTD Amount     :
  
```

Sig. 1 in G:\HPCHEM\2\DATA\000328\034F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.224	256817	BB	0.045	1	86.491	2,4,5,6-Tetrachloro-m-Xylene
9.202	161748	BB	0.047	1	40.928	Alpha-BHC
10.603	152794	BV	0.053	1	41.123	Gamma-BHC
10.811	88152	VB	0.060	1	42.463	Beta-BHC
11.941	173173	BB	0.065	1	41.893	Heptachlor
12.367	122923	BB	0.058	1	39.911	Delta-BHC
13.436	140965	VB	0.070	1	40.553	Aldrin
16.195	152724	BB	0.077	1	41.796	Heptachlor Epoxide
17.074	158676	BV	0.079	1	41.440	Gamma Chlordane
17.968	154345	BV	0.082	1	41.611	Alpha Chlordane
18.155	145359	VB	0.083	1	41.412	Endosulfan I
19.449	133311	BV	0.079	1	40.946	4,4'-DDE
19.943	129922	PB	0.086	1	40.887	Dieldrin
21.627	88746	BB	0.057	1	39.224	Endrin
21.998	79638	BV	0.049	1	40.600	4,4'-DDD
22.236	116189	VB	0.052	1	41.828	Endosulfan II
22.876	78844	VB	0.044	1	40.326	4,4'-DDT
23.159	102626	BV	0.051	1	44.353	Endrin Aldehyde
23.489	96728	VB	0.049	1	41.697	Endosulfan Sulfate
25.246	48304	BB	0.053	1	41.202	Methoxychlor
25.803	123088	VB	0.059	1	42.551	Endrin Ketone
29.971	308428	BB	0.088	1	86.696	Decachlorobiphenyl



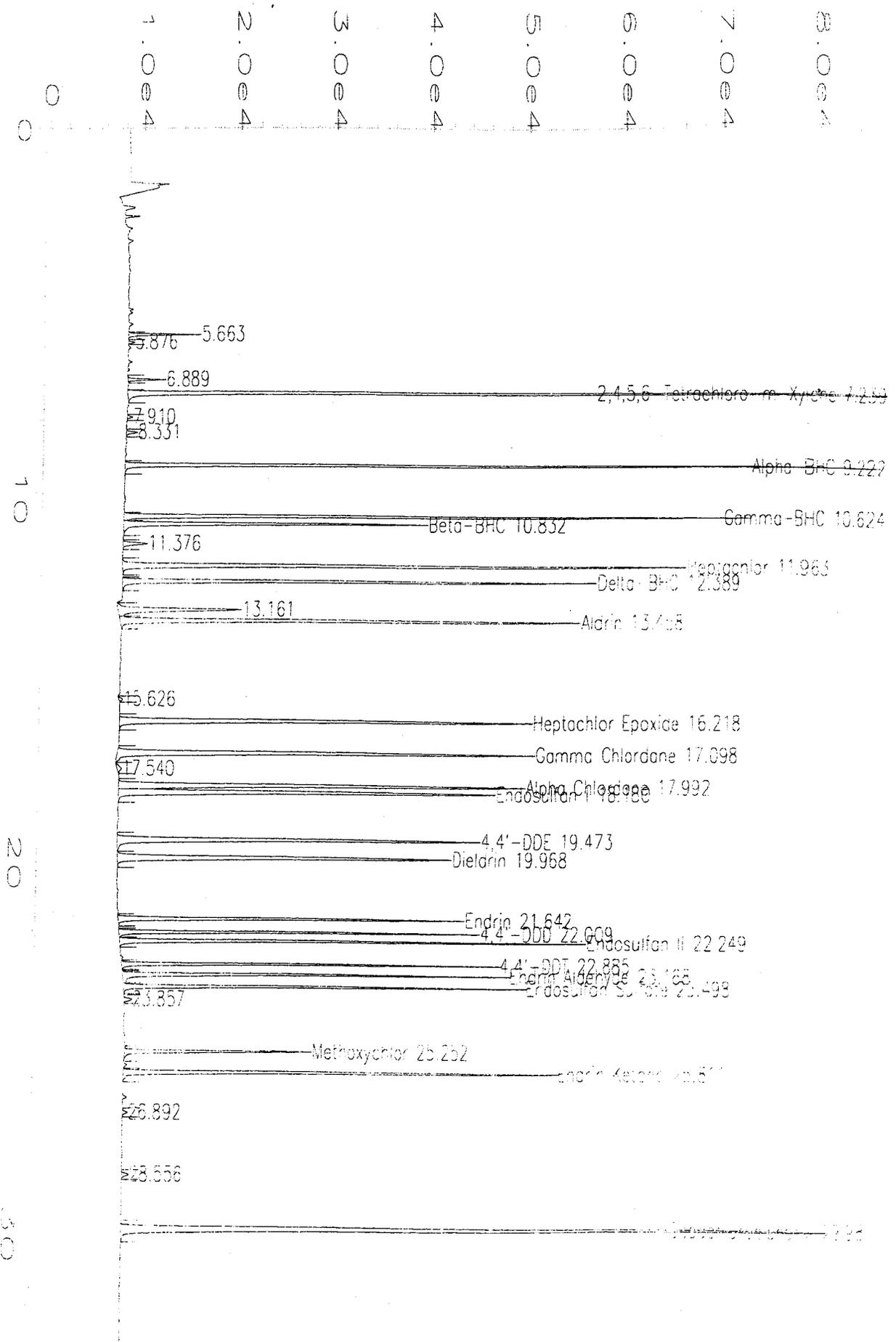
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Data File Name   : G:\HPCHEM\2\DATA\000328\033F0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 33
Sample Name     : PEST-60 S112299E                   Injection Number : 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 29 Mar 00 06:32 PM                  Instrument Method: 8081.MTH
Report Created on: 30 Mar 00 03:58 PM                 Analysis Method  : PST0330F.MTH
Last Recalib on : 30 Mar 00 03:57 PM                 Sample Amount   : 0
Multiplier     : 1                                     ISTD Amount     :
  
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Sig. 1 in G:\HPCHEM\2\DATA\000328\033F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.239	350692	BB	0.045	1	120.377	2,4,5,6-Tetrachloro-m-Xylene
9.222	242644	BB	0.048	1	59.256	Alpha-BHC
10.624	225881	BV	0.054	1	58.904	Gamma-BHC
10.832	124875	VB	0.060	1	59.851	Beta-BHC
11.963	247362	BB	0.066	1	59.640	Heptachlor
12.389	187324	BB	0.059	1	57.781	Delta-BHC
13.458	215030	VB	0.070	1	61.268	Aldrin
16.218	217378	BB	0.079	1	59.338	Heptachlor Epoxide
17.098	227018	BV	0.081	1	59.367	Gamma Chlordane
17.992	220997	BV	0.081	1	59.212	Alpha Chlordane
18.180	209502	VB	0.084	1	59.185	Endosulfan I
19.473	194190	BV	0.079	1	58.864	4,4'-DDE
19.968	189365	PB	0.084	1	58.766	Dieldrin
21.642	133191	PB	0.057	1	56.752	Endrin
22.009	118088	BV	0.049	1	58.786	4,4'-DDD
22.249	165186	VV	0.052	1	59.380	Endosulfan II
22.885	114454	BB	0.045	1	57.176	4,4'-DDT
23.168	134699	BV	0.051	1	59.202	Endrin Aldehyde
23.498	135744	VB	0.050	1	58.579	Endosulfan Sulfate
25.252	68526	BB	0.054	1	58.412	Methoxychlor
25.811	174496	PB	0.060	1	60.085	Endrin Ketone
29.987	412394	BB	0.088	1	119.166	Decachlorobiphenyl



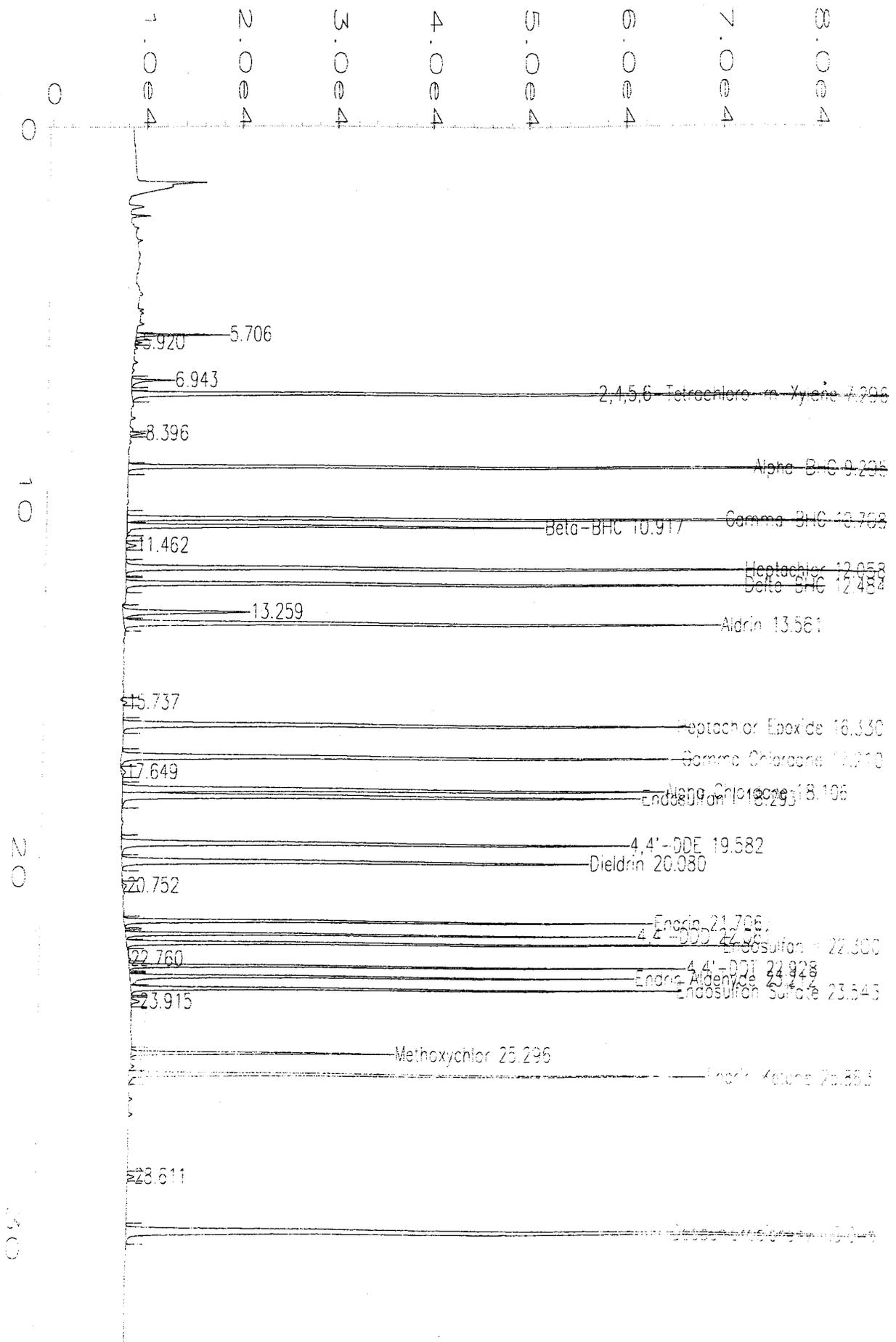
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Data File Name   : G:\HPCHEM\2\DATA\000328\032F0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 32
Sample Name     : PEST-80 S112299                    Injection Number : 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 29 Mar 00 05:57 PM                  Instrument Method: 8081.MTH
Report Created on: 30 Mar 00 03:57 PM                 Analysis Method  : PST0330F.MTH
Last Recalib on : 30 Mar 00 03:57 PM                 Sample Amount   : 0
Multiplier     : 1                                    ISTD Amount     :
  
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Sig. 1 in G:\HPCHEM\2\DATA\000328\032F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.296	452029	BV	0.045	1	156.956	2,4,5,6-Tetrachloro-m-Xylene
9.295	335546	BB	0.049	1	80.302	Alpha-BHC
10.708	314333	BV	0.056	1	80.424	Gamma-BHC
10.917	165496	VB	0.058	1	79.085	Beta-BHC
12.058	330431	BB	0.065	1	79.512	Heptachlor
12.484	273764	BB	0.059	1	81.766	Delta-BHC
13.561	278190	VB	0.070	1	78.933	Aldrin
16.330	292687	BB	0.077	1	79.770	Heptachlor Epoxide
17.210	305196	BV	0.080	1	79.874	Gamma Chlordane
18.106	299474	BV	0.084	1	79.936	Alpha Chlordane
8.293	284757	VB	0.082	1	80.036	Endosulfan I
19.582	267508	BV	0.078	1	80.442	4,4'-DDE
20.080	261817	PB	0.084	1	80.558	Dieldrin
21.706	198953	PB	0.056	1	82.688	Endrin
22.061	164390	BV	0.048	1	80.686	4,4'-DDD
22.300	221904	VV	0.053	1	79.697	Endosulfan II
22.928	166695	VB	0.044	1	81.896	4,4'-DDT
23.212	176948	BV	0.051	1	78.763	Endrin Aldehyde
23.543	185970	VB	0.050	1	80.311	Endosulfan Sulfate
25.296	94584	BB	0.053	1	80.589	Methoxychlor
25.863	229642	PB	0.060	1	78.894	Endrin Ketone
30.045	535641	BB	0.089	1	157.658	Decachlorobiphenyl

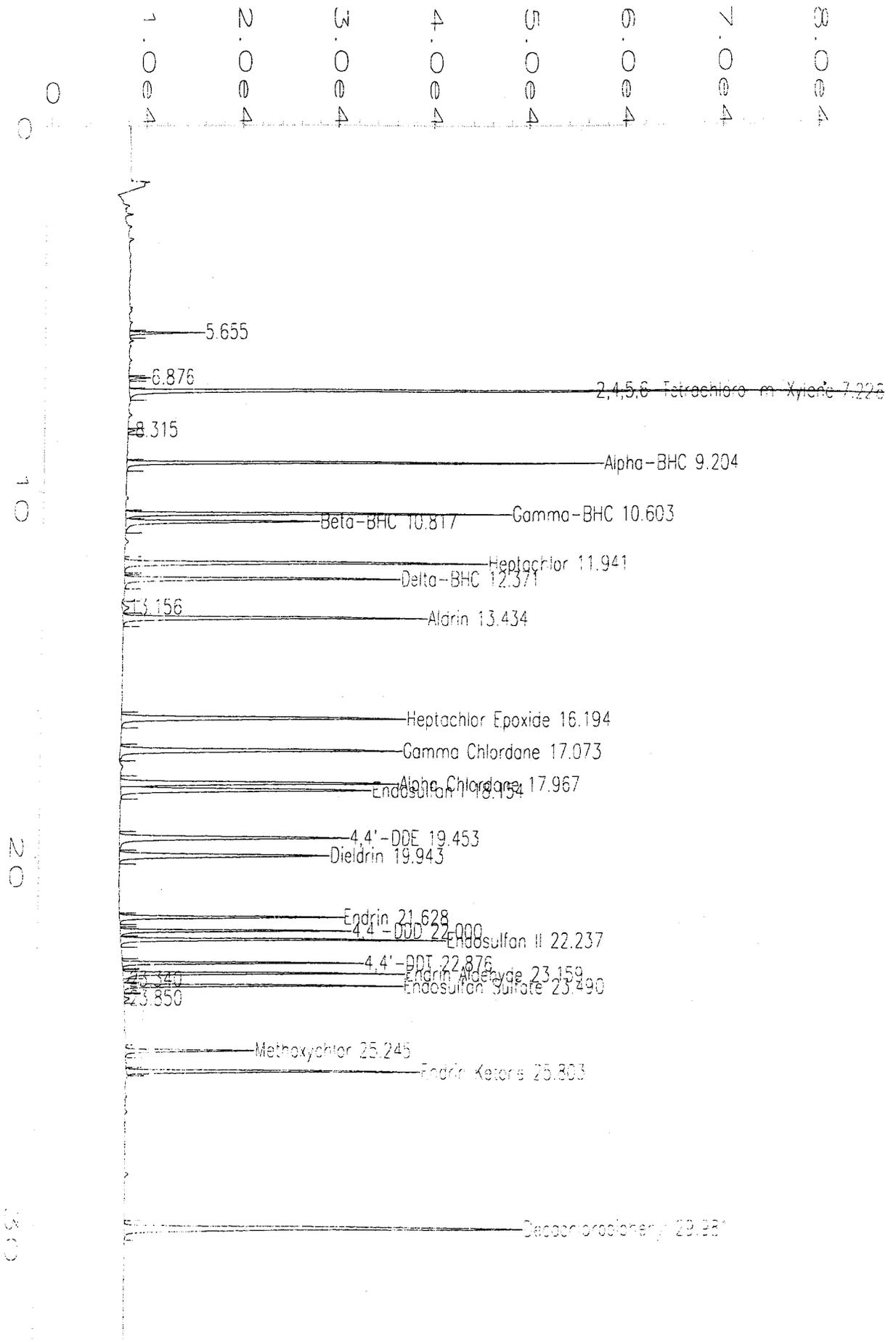


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Data File Name   : G:\HPCHEM\2\DATA\000328\037F0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 37
Sample Name     : PEST ICV S12999B                   Injection Number : 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 29 Mar 00 09:01 PM                 Instrument Method: 8081.MTH
Report Created on: 30 Mar 00 04:05 PM               Analysis Method  : PST0330F.MTH
Last Recalib on : 30 Mar 00 03:57 PM                Sample Amount   : 0
Multiplier     : 1                                    ISTD Amount    :
  
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Sig. 1 in G:\HPCHEM\2\DATA\000328\037F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.226	246436	BB	0.045	1	82.744	2,4,5,6-Tetrachloro-m-Xylene
9.204	153853	BB	0.048	1	39.140	Alpha-BHC
10.603	143966	BV	0.055	1	38.975	Gamma-BHC
10.817	84627	VB	0.064	1	40.793	Beta-BHC
11.941	161671	BB	0.065	1	39.141	Heptachlor
12.371	114668	BB	0.061	1	37.621	Delta-BHC
13.434	141915	VB	0.069	1	40.819	Aldrin
16.194	149341	BB	0.078	1	40.878	Heptachlor Epoxide
17.073	153579	BV	0.081	1	40.103	Gamma Chlordane
17.967	151130	BV	0.081	1	40.762	Alpha Chlordane
18.154	141411	VB	0.084	1	40.318	Endosulfan I
19.453	128356	BV	0.082	1	39.488	4,4'-DDE
19.943	120581	VB	0.085	1	38.078	Dieldrin
21.628	85728	BB	0.056	1	38.034	Endrin
22.000	78353	BV	0.050	1	39.992	4,4'-DDD
22.237	114648	VB	0.052	1	41.276	Endosulfan II
22.876	74019	BB	0.046	1	38.043	4,4'-DDT
23.159	97741	BV	0.051	1	42.092	Endrin Aldehyde
23.490	94254	VB	0.050	1	40.627	Endosulfan Sulfate
25.245	47308	BB	0.055	1	40.354	Methoxychlor
25.803	112576	BV	0.057	1	38.965	Endrin Ketone
29.981	233644	BB	0.087	1	63.340	Decachlorobiphenyl



FOR DATA\00328\037F0101.D

GC-17, Calculation of Initial Calibration, Pest0330R.mth, Rear Column----DB-5
 Date of run: 3/30/00
 Data path : \000330

Analyte	Concentration(ppb)								RF1	RF2	RF3	RF4	RF5	Avg RF	SD	%RSD
	10	20	40	60	80	AREA	AREA	AREA								
2,4,5,6-Tetrachloro-	63957	131099	258475	352231	446250	6396	6555	6462	5871	5578	6172	426	7			
Alpha-BHC	32057	76085	173974	246390	346506	3206	3804	4349	4107	4331	3959	475	12			
Beta-BHC	19333	42486	88649	121017	167729	1933	2124	2216	2017	2097	2077	108	5			
Gamma-BHC	31400	74073	167144	234392	334514	3140	3704	4179	3907	4181	3822	431	11			
Delta-BHC	25420	60299	145468	203845	300206	2542	3015	3637	3397	3753	3269	495	15			
Heptachlor	41818	89185	183766	250783	348661	4182	4459	4594	4180	4358	4355	179	4			
Aldrin	33592	72357	147711	210415	290491	3359	3618	3693	3507	3631	3562	131	4			
Heptachlor Epoxide	37722	79199	188334	217030	385705	3772	3960	4708	3617	4821	4176	553	13			
Gamma Chlordane	37911	78479	164807	224624	315494	3791	3924	4120	3744	3944	3905	148	4			
Endosulfan I	34100	72624	149294	199122	284345	3410	3631	3732	3319	3554	3529	166	5			
Alpha Chlordane	39724	83472	175090	240202	341359	3972	4174	4377	4003	4267	4159	172	4			
4,4'-DDE	31538	68196	142410	194957	283600	3154	3410	3560	3249	3545	3384	179	5			
Dieldrin	32069	68801	144458	196919	288060	3207	3440	3611	3282	3601	3428	183	5			
Endrin	25732	53701	113701	159623	251202	2573	2685	2843	2660	3140	2780	223	8			
Endosulfan II	33989	71563	146182	197768	281593	3399	3578	3655	3296	3520	3490	143	4			
4,4'-DDD	21778	47544	101575	140229	208852	2178	2377	2539	2337	2611	2408	171	7			
Endrin Aldehyde	31449	65779	137045	173770	238743	3145	3289	3426	2896	2984	3148	216	7			
Endosulfan Sulfate	30923	64302	129165	173833	250031	3092	3215	3229	2897	3125	3112	133	4			
4,4'-DDT	22784	49750	105827	145983	229046	2278	2488	2646	2433	2863	2542	223	9			
Endrin Ketone	36216	77685	160989	215996	298388	3622	3884	4025	3600	3730	3772	181	5			
Methoxychlor	15122	31692	63832	85715	123641	1512	1585	1596	1429	1546	1533	67	4			
Decachlorobiphenyl	82031	157920	299092	399743	527042	8203	7896	7477	6662	6588	7365	724	10			

```

=====
Data File Name   : G:\HPCHEM\2\DATA\000328\032R0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : PEST-80 S112299
Run Time Bar Code:
Acquired on    : 29 Mar 00 05:57 PM
Report Created on: 30 Mar 00 04:30 PM
Last Recalib on : 30 Mar 00 04:30 PM
Multiplier     : 1
Page Number    : 1
Vial Number    : 32
Injection Number : 1
Sequence Line  : 1
Instrument Method: 8081.MTH
Analysis Method : PST0330R.MTH
Sample Amount  : 0
ISTD Amount    :
  
```

Calibration Table

Pk#	RT	Lvl	ng/ul	Amt/Area	Ref Istd I#	Name
1	6.631	1	20.0	3.1271e-004	1	2,4,5,6-Tetrachloro-...
		2	40.0	3.0511e-004		
		3	80.0	3.0951e-004		
		4	120.0	3.4069e-004		
		5	160.0	3.5854e-004		
2	7.426	1	10.0	3.1194e-004	1	Alpha-BHC
		2	20.0	2.6286e-004		
		3	40.0	2.2992e-004		
		4	60.0	2.4352e-004		
		5	80.0	2.3088e-004		
3	7.981	1	10.0	5.1724e-004	1	Beta-BHC
		2	20.0	4.7075e-004		
		3	40.0	4.5122e-004		
		4	60.0	4.958e-004		
		5	80.0	4.7696e-004		
4	8.187	1	10.0	3.1847e-004	1	Gamma-BHC
		2	20.0	2.7001e-004		
		3	40.0	2.3932e-004		
		4	60.0	2.5598e-004		
		5	80.0	2.3915e-004		
5	8.732	1	10.0	3.9339e-004	1	Delta-BHC
		2	20.0	3.3168e-004		
		3	40.0	2.7497e-004		
		4	60.0	2.9434e-004		
		5	80.0	2.6648e-004		
6	10.289	1	10.0	2.3913e-004	1	Heptachlor
		2	20.0	2.2425e-004		
		3	40.0	2.1767e-004		
		4	60.0	2.3925e-004		
		5	80.0	2.2945e-004		
7	11.522	1	10.0	2.9769e-004	1	Aldrin
		2	20.0	2.7641e-004		
		3	40.0	2.708e-004		

Method: G:\HPCHEM\2\METHODS\PST0330R.MTH

		5	80.0	2.754e-004	
8	13.021	1	10.0	2.651e-004	1 Heptachlor Epoxide
		2	20.0	2.5253e-004	
		3	40.0	2.1239e-004	
		4	60.0	2.7646e-004	
		5	80.0	2.0741e-004	
9	14.016	1	10.0	2.6378e-004	1 Gamma Chlordane
		2	20.0	2.5484e-004	
		3	40.0	2.4271e-004	
		4	60.0	2.6711e-004	
		5	80.0	2.5357e-004	
10	14.603	1	10.0	2.9325e-004	1 Endosulfan I
		2	20.0	2.7539e-004	
		3	40.0	2.6793e-004	
		4	60.0	3.0132e-004	
		5	80.0	2.8135e-004	
11	14.693	1	10.0	2.5174e-004	1 Alpha Chlordane
		2	20.0	2.396e-004	
		3	40.0	2.2845e-004	
		4	60.0	2.4979e-004	
		5	80.0	2.3436e-004	
12	15.555	1	10.0	3.1708e-004	1 4,4'-DDE
		2	20.0	2.9327e-004	
		3	40.0	2.8088e-004	
		4	60.0	3.0776e-004	
		5	80.0	2.8209e-004	
13	15.812	1	10.0	3.1183e-004	1 Dieldrin
		2	20.0	2.907e-004	
		3	40.0	2.769e-004	
		4	60.0	3.0469e-004	
		5	80.0	2.7772e-004	
14	16.888	1	10.0	3.8862e-004	1 Endrin
		2	20.0	3.7243e-004	
		3	40.0	3.518e-004	
		4	60.0	3.7588e-004	
		5	80.0	3.1847e-004	
15	17.315	1	10.0	2.9422e-004	1 Endosulfan II
		2	20.0	2.7948e-004	
		3	40.0	2.7363e-004	
		4	60.0	3.0339e-004	
		5	80.0	2.841e-004	
16	17.656	1	10.0	4.5918e-004	1 4,4'-DDD
		2	20.0	4.2066e-004	
		3	40.0	3.938e-004	
		4	60.0	4.2787e-004	
		5	80.0	3.8305e-004	
17	18.265	1	10.0	3.1797e-004	1 Endrin Aldehyde

Method: G:\HPCHEM\2\METHODS\PST0330R.MTH

		3	40.0	2.9188e-004	
		4	60.0	3.4528e-004	
		5	80.0	3.3509e-004	
18	19.551	1	10.0	3.2338e-004	1 Endosulfan Sulfate
		2	20.0	3.1103e-004	
		3	40.0	3.0968e-004	
		4	60.0	3.4516e-004	
		5	80.0	3.1996e-004	
19	19.701	1	10.0	4.389e-004	1 4,4'-DDT
		2	20.0	4.0201e-004	
		3	40.0	3.7797e-004	
		4	60.0	4.1101e-004	
		5	80.0	3.4927e-004	
20	21.608	1	10.0	2.7612e-004	1 Endrin Ketone
		2	20.0	2.5745e-004	
		3	40.0	2.4846e-004	
		4	60.0	2.7778e-004	
		5	80.0	2.6811e-004	
21	22.007	1	10.0	6.6127e-004	1 Methoxychlor
		2	20.0	6.3107e-004	
		3	40.0	6.2664e-004	
		4	60.0	0.0007	
		5	80.0	6.4703e-004	
22	26.642	1	20.0	2.4381e-004	1 Decachlorobiphenyl
		2	40.0	2.5329e-004	
		3	80.0	2.6748e-004	
		4	120.0	3.0019e-004	
		5	160.0	3.0358e-004	

Calibration Settings

Title:

Reference window: 5.000 %
 Non-reference window: 5.000 %
 Units of amount: ng/ul
 Multiplier: 1.0
 RF uncal peaks: 0.0
 ISTD# to adjust uncal peaks: 0
 Sample Amount: 0.0

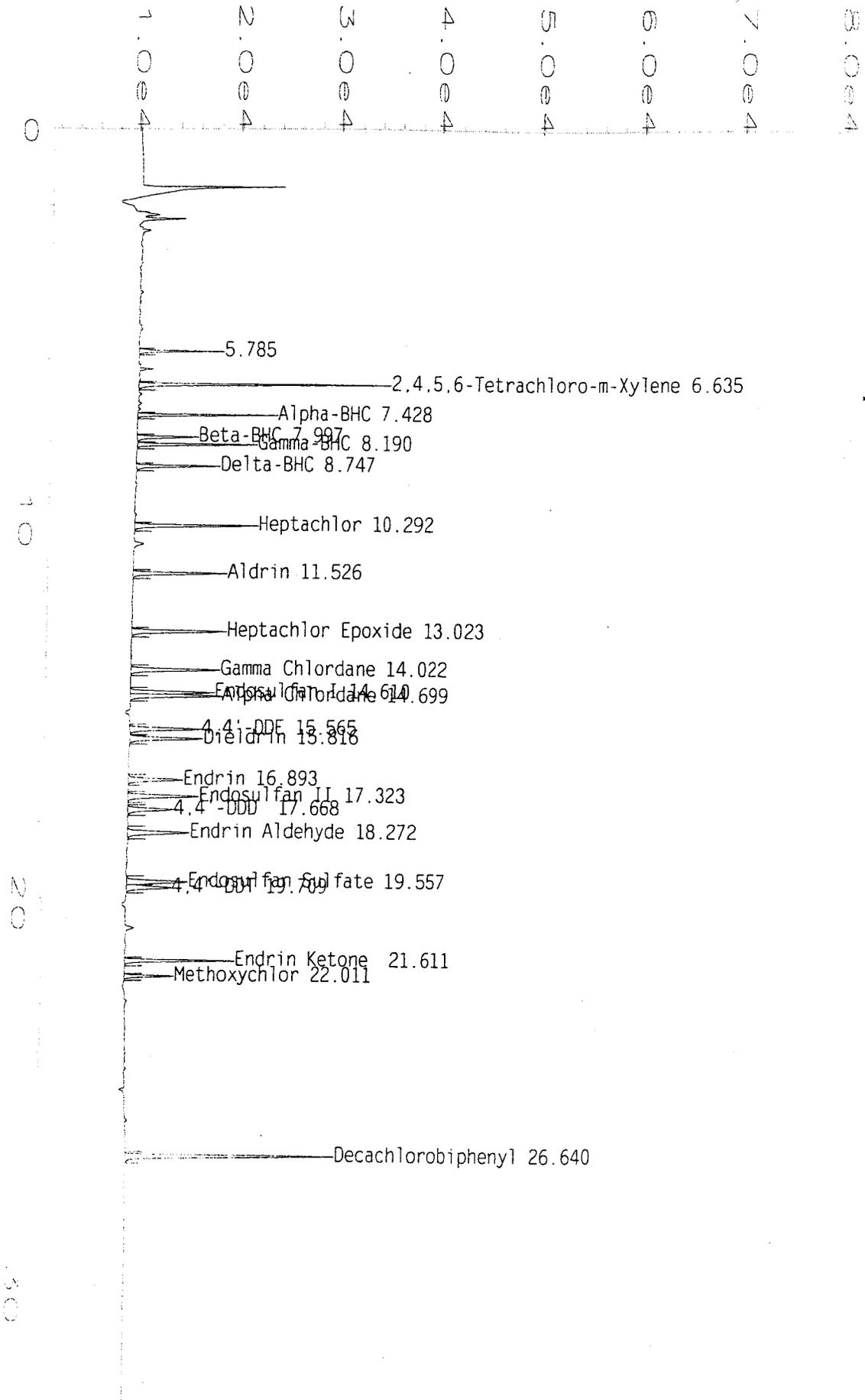
Sample ISTD Information

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Data File Name      : G:\HPCHEM\2\DATA\000328\036R0101.D
Operator           : GC-17                               Page Number      : 1
Instrument         : GC 17 ECD                           Vial Number      : 36
Sample Name       : PEST-10 S112299B                    Injection Number  : 1
Run Time Bar Code:                                       Sequence Line    : 1
Acquired on      : 29 Mar 00  08:24 PM                  Instrument Method: 8081.MTH
Report Created on: 30 Mar 00  04:32 PM                  Analysis Method  : PST0330R.MTH
Last Recalib on  : 30 Mar 00  04:30 PM                  Sample Amount    : 0
Multiplier       : 1                                     ISTD Amount     :
  
```

Sig. 2 in G:\HPCHEM\2\DATA\000328\036R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.635	63957	BB	0.038	1	16.774	2,4,5,6-Tetrachloro-m-Xylene
7.428	32057	BB	0.035	1	9.712	Alpha-BHC
7.997	19333	BB	0.048	1	9.080	Beta-BHC
8.190	31400	BB	0.041	1	9.785	Gamma-BHC
8.747	25420	BB	0.047	1	10.454	Delta-BHC
10.292	41818	BB	0.052	1	9.226	Heptachlor
11.526	33592	BB	0.056	1	9.552	Aldrin
13.023	37722	BB	0.063	1	11.029	Heptachlor Epoxide
14.022	37911	BB	0.067	1	9.538	Gamma Chlordane
14.610	34100	BV	0.063	1	9.302	Endosulfan I
14.699	39724	VB	0.067	1	9.696	Alpha Chlordane
15.565	31538	BB	0.069	1	9.847	4,4'-DDE
15.816	32069	BB	0.068	1	9.933	Dieldrin
16.893	25732	BB	0.075	1	11.392	Endrin
17.323	33989	BB	0.076	1	9.463	Endosulfan II
17.668	21778	BB	0.074	1	10.328	4,4'-DDD
18.272	31449	BB	0.080	1	8.513	Endrin Aldehyde
19.557	30923	BV	0.081	1	9.543	Endosulfan Sulfate
19.709	22784	VB	0.079	1	10.988	4,4'-DDT
21.611	36216	BB	0.052	1	8.959	Endrin Ketone
22.011	15122	BB	0.048	1	9.523	Methoxychlor
26.640	82031	BB	0.062	1	17.657	Decachlorobiphenyl



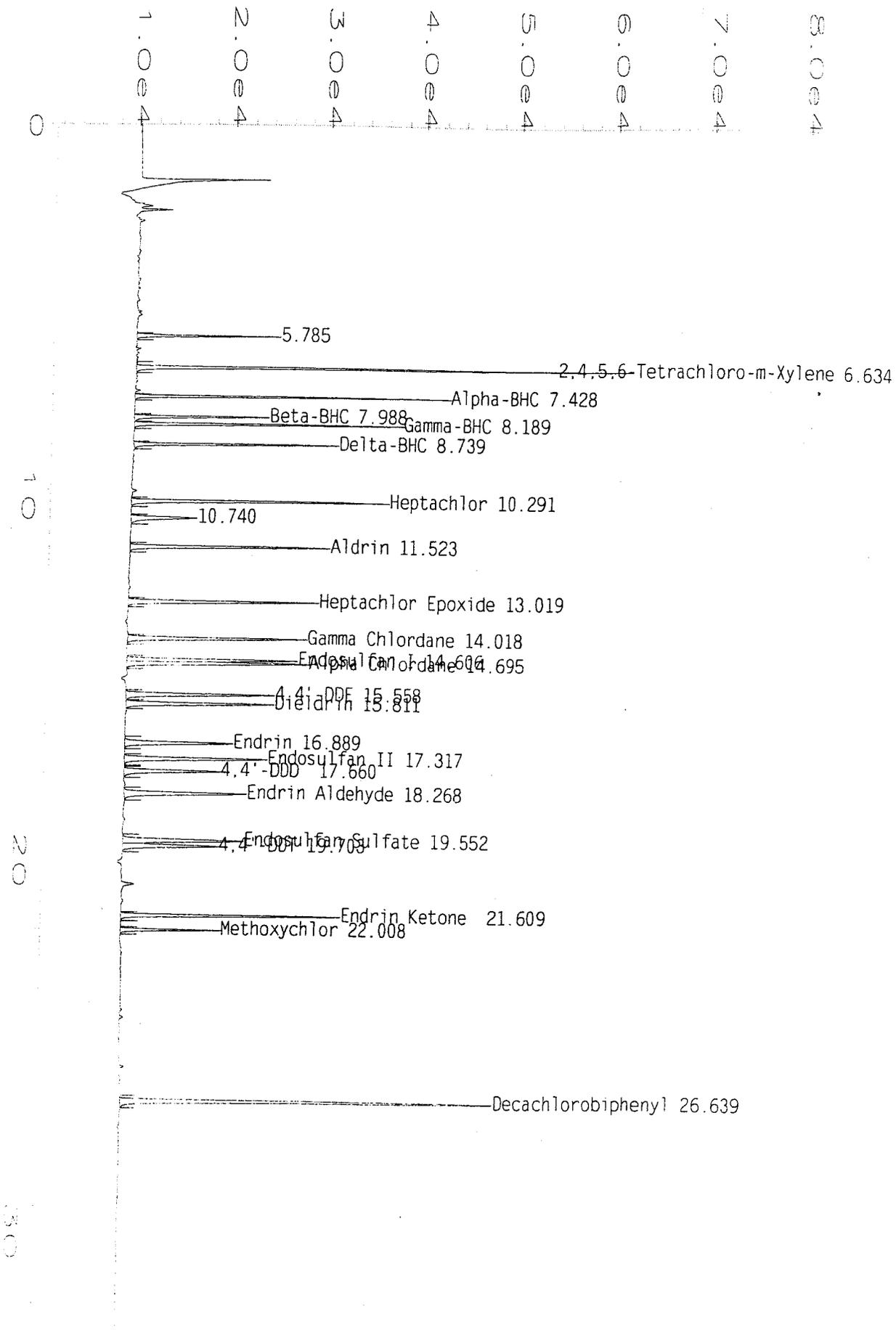
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=====
Data File Name   : G:\HPCHEM\2\DATA\000328\035R0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : PEST-20 S112299C
Run Time Bar Code:
Acquired on    : 29 Mar 00 07:46 PM
Report Created on: 30 Mar 00 04:31 PM
Last Recalib on : 30 Mar 00 04:30 PM
Multiplier     : 1

Page Number    : 1
Vial Number    : 35
Injection Number : 1
Sequence Line  : 1
Instrument Method: 8081.MTH
Analysis Method : PST0330R.MTH
Sample Amount  : 0
ISTD Amount    :
  
```

Sig. 2 in G:\HPCHEM\2\DATA\000328\035R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.634	131099	BB	0.037	1	40.155	2,4,5,6-Tetrachloro-m-Xylene
7.428	76085	BB	0.035	1	19.708	Alpha-BHC
7.988	42486	BV	0.045	1	20.190	Beta-BHC
8.189	74073	VB	0.040	1	19.863	Gamma-BHC
8.739	60299	BB	0.043	1	19.500	Delta-BHC
10.291	89185	BB	0.051	1	20.206	Heptachlor
11.523	72357	BB	0.053	1	20.282	Aldrin
13.019	79199	BB	0.061	1	19.957	Heptachlor Epoxide
14.018	78479	BB	0.065	1	19.954	Gamma Chlordane
14.606	72624	BV	0.062	1	20.346	Endosulfan I
14.695	83472	VB	0.067	1	20.075	Alpha Chlordane
15.558	68196	BV	0.067	1	20.324	4,4'-DDE
15.811	68801	VB	0.069	1	20.270	Dieldrin
16.889	53701	BB	0.074	1	20.398	Endrin
17.317	71563	BB	0.075	1	20.341	Endosulfan II
17.660	47544	BB	0.074	1	20.253	4,4'-DDD
18.268	65779	BB	0.080	1	19.985	Endrin Aldehyde
19.552	64302	BV	0.080	1	20.496	Endosulfan Sulfate
19.703	49750	VB	0.077	1	20.502	4,4'-DDT
21.609	77685	BB	0.053	1	20.154	Endrin Ketone
22.008	31692	BB	0.047	1	20.515	Methoxychlor
26.639	157920	BB	0.063	1	40.775	Decachlorobiphenyl



01.D \DATA\00328\035R0101.D

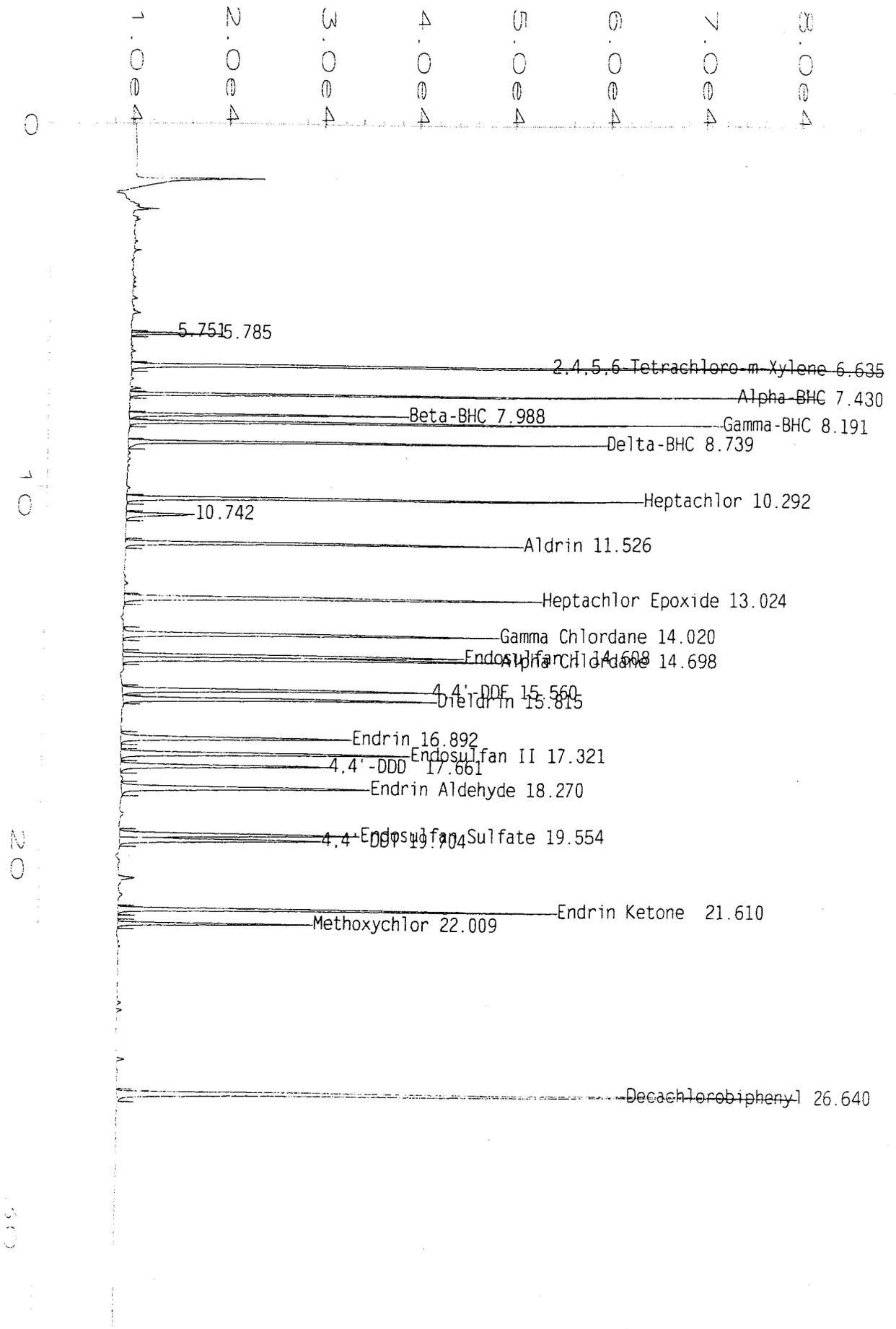
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Data File Name   : G:\HPCHEM\2\DATA\000328\034R0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : PEST-40 S112299D
Run Time Bar Code:
Acquired on    : 29 Mar 00 07:09 PM
Report Created on: 30 Mar 00 04:31 PM
Last Recalib on : 30 Mar 00 04:30 PM
Multiplier     : 1

Page Number      : 1
Vial Number     : 34
Injection Number : 1
Sequence Line   : 1
Instrument Method: 8081.MTH
Analysis Method : PST0330R.MTH
Sample Amount   : 0
ISTD Amount     :
  
```

Sig. 2 in G:\HPCHEM\2\DATA\000328\034R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.635	258475	BB	0.039	1	86.967	2,4,5,6-Tetrachloro-m-Xylene
7.430	173974	BB	0.036	1	41.768	Alpha-BHC
7.988	88649	BV	0.046	1	42.388	Beta-BHC
8.191	167144	VB	0.041	1	41.727	Gamma-BHC
8.739	145468	BB	0.044	1	41.590	Delta-BHC
10.292	183766	BB	0.052	1	42.215	Heptachlor
11.526	147711	BB	0.055	1	41.115	Aldrin
13.024	188334	BB	0.067	1	43.450	Heptachlor Epoxide
14.020	164807	BB	0.064	1	42.140	Gamma Chlordane
14.608	149294	BV	0.064	1	42.402	Endosulfan I
14.698	175090	VB	0.067	1	41.792	Alpha Chlordane
15.560	142410	BV	0.068	1	41.506	4,4'-DDE
15.815	144458	VB	0.069	1	41.549	Dieldrin
16.892	113701	BB	0.073	1	39.717	Endrin
17.321	146182	BB	0.075	1	41.989	Endosulfan II
17.661	101575	BB	0.072	1	41.068	4,4'-DDD
18.270	137045	BB	0.082	1	44.662	Endrin Aldehyde
19.554	129165	BV	0.080	1	41.840	Endosulfan Sulfate
19.704	105827	VB	0.078	1	40.289	4,4'-DDT
21.610	160989	BB	0.055	1	42.854	Endrin Ketone
22.009	63832	BB	0.049	1	41.888	Methoxychlor
26.640	299092	BB	0.065	1	85.894	Decachlorobiphenyl



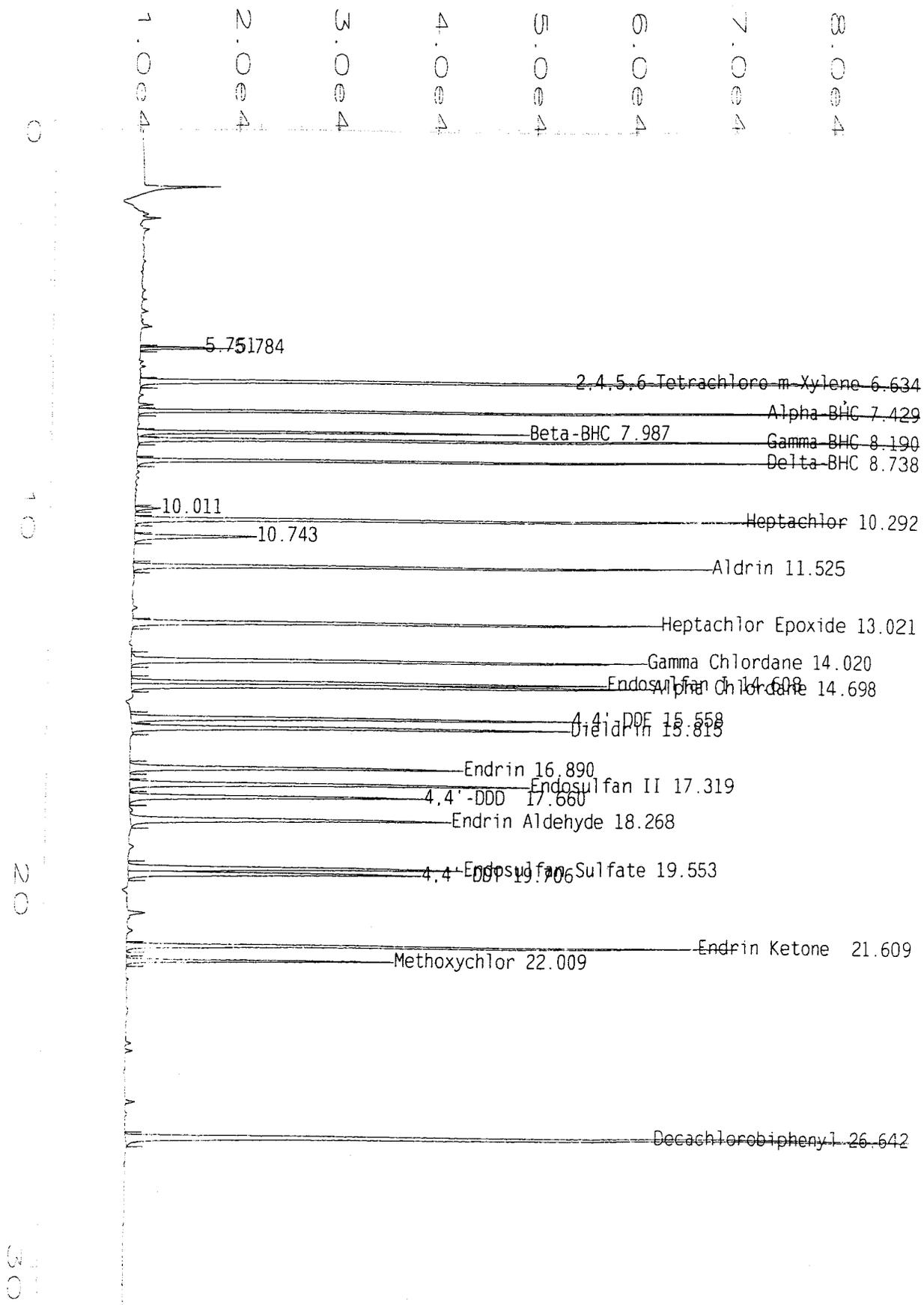
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Data File Name   : G:\HPCHEM\2\DATA\000328\033R0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : PEST-60 S112299E
Run Time Bar Code:
Acquired on    : 29 Mar 00 06:32 PM
Report Created on: 30 Mar 00 04:31 PM
Last Recalib on : 30 Mar 00 04:30 PM
Multiplier     : 1

Page Number     : 1
Vial Number     : 33
Injection Number : 1
Sequence Line   : 1
Instrument Method: 8081.MTH
Analysis Method : PST0330R.MTH
Sample Amount   : 0
ISTD Amount     :
  
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Sig. 2 in G:\HPCHEM\2\DATA\000328\033R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.634	352231	BB	0.041	1	121.423	2,4,5,6-Tetrachloro-m-Xylene
7.429	246390	BB	0.038	1	58.088	Alpha-BHC
7.987	121017	BV	0.046	1	57.951	Beta-BHC
8.190	234392	VB	0.043	1	57.526	Gamma-BHC
8.738	203845	BB	0.045	1	56.732	Delta-BHC
10.292	250783	BB	0.054	1	57.810	Heptachlor
11.525	210415	BB	0.056	1	58.450	Aldrin
13.021	217030	BB	0.063	1	49.627	Heptachlor Epoxide
14.020	224624	BB	0.067	1	57.513	Gamma Chlordane
14.608	199122	BV	0.063	1	56.736	Endosulfan I
14.698	240202	VB	0.070	1	57.225	Alpha Chlordane
15.558	194957	BV	0.067	1	56.504	4,4'-DDE
15.815	196919	VB	0.069	1	56.304	Dieldrin
16.890	159623	BB	0.074	1	54.503	Endrin
17.319	197768	BB	0.077	1	56.955	Endosulfan II
17.660	140229	BB	0.073	1	55.958	4,4'-DDD
18.268	173770	BB	0.083	1	57.379	Endrin Aldehyde
19.553	173833	BV	0.081	1	56.539	Endosulfan Sulfate
19.706	145983	VB	0.076	1	54.457	4,4'-DDT
21.609	215996	BB	0.055	1	57.843	Endrin Ketone
22.009	85715	BB	0.049	1	56.440	Methoxychlor
26.642	399743	BB	0.068	1	118.062	Decachlorobiphenyl



1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00

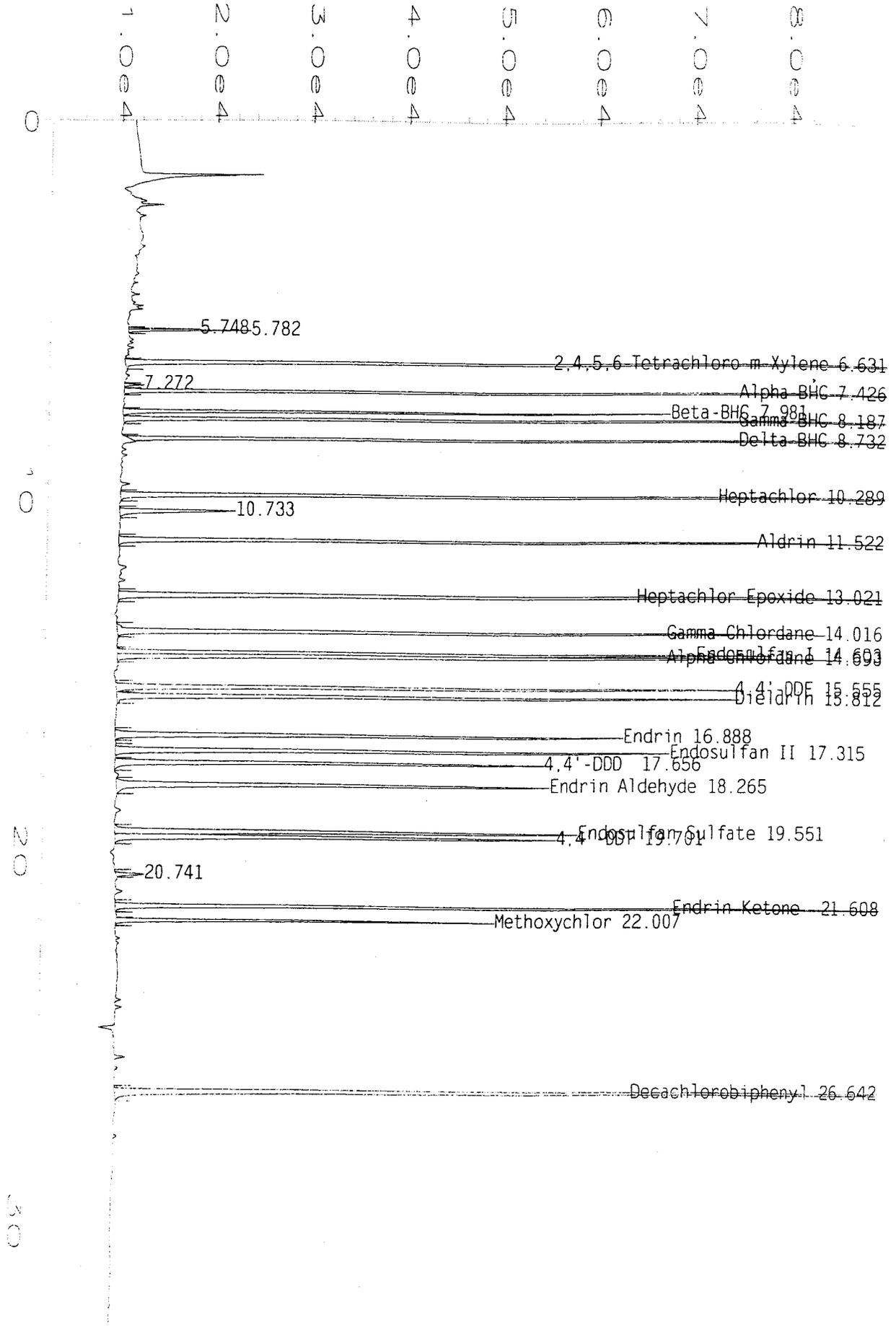
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Data File Name   : G:\HPCHEM\2\DATA\000328\032R0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : PEST-80 S112299
Run Time Bar Code:
Acquired on    : 29 Mar 00 05:57 PM
Report Created on: 30 Mar 00 04:31 PM
Last Recalib on : 30 Mar 00 04:30 PM
Multiplier     : 1

Page Number     : 1
Vial Number     : 32
Injection Number : 1
Sequence Line   : 1
Instrument Method: 8081.MTH
Analysis Method : PST0330R.MTH
Sample Amount   : 0
ISTD Amount     :
  
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Sig. 2 in G:\HPCHEM\2\DATA\000328\032R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.631	446250	BB	0.039	1	155.976	2,4,5,6-Tetrachloro-m-Xylene
7.426	346506	BB	0.038	1	80.650	Alpha-BHC
7.981	167729	BV	0.044	1	80.413	Beta-BHC
8.187	334514	VB	0.043	1	81.047	Gamma-BHC
8.732	300206	BV	0.044	1	81.724	Delta-BHC
10.289	348661	BB	0.053	1	80.586	Heptachlor
11.522	290491	BB	0.057	1	80.589	Aldrin
13.021	385705	BB	0.069	1	85.937	Heptachlor Epoxide
14.016	315494	BB	0.066	1	80.866	Gamma Chlordane
14.603	284345	BV	0.063	1	81.253	Endosulfan I
14.693	341359	VB	0.069	1	81.203	Alpha Chlordane
15.555	283600	BV	0.068	1	81.805	4,4'-DDE
15.812	288060	VB	0.070	1	81.938	Dieldrin
16.888	251202	BB	0.074	1	83.991	Endrin
17.315	281593	BB	0.077	1	81.274	Endosulfan II
17.656	208852	BB	0.073	1	82.393	4,4'-DDD
18.265	238743	BB	0.082	1	79.877	Endrin Aldehyde
19.551	250031	BV	0.081	1	81.613	Endosulfan Sulfate
19.701	229046	VB	0.077	1	83.764	4,4'-DDT
21.608	298388	BB	0.055	1	80.295	Endrin Ketone
22.007	123641	BB	0.048	1	81.660	Methoxychlor
26.642	527042	BB	0.065	1	158.747	Decachlorobiphenyl



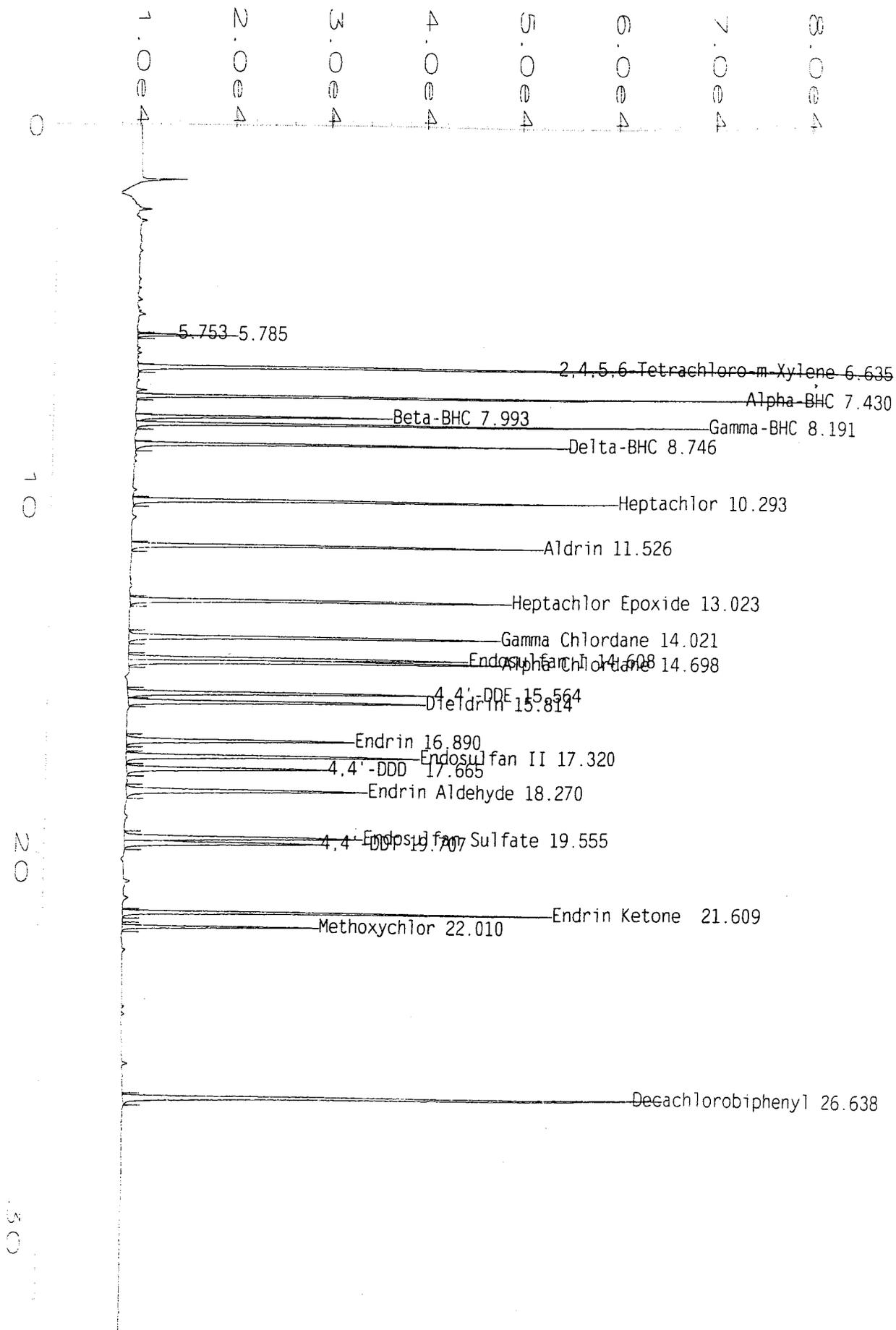
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Data File Name   : G:\HPCHEM\2\DATA\000328\037R0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : PEST ICV S12999B
Run Time Bar Code:
Acquired on    : 29 Mar 00 09:01 PM
Report Created on: 30 Mar 00 04:34 PM
Last Recalib on : 30 MAR 00 04:30 PM
Multiplier     : 1

Page Number    : 1
Vial Number    : 37
Injection Number : 1
Sequence Line  : 1
Instrument Method: 8081.MTH
Analysis Method : PST0330R.MTH
Sample Amount  : 0
ISTD Amount    :
  
```

Sig. 2 in G:\HPCHEM\2\DATA\000328\037R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.635	248464	BB	0.038	1	83.287	2,4,5,6-Tetrachloro-m-Xylene
7.430	170381	BB	0.037	1	40.958	Alpha-BHC
7.993	86535	BV	0.048	1	41.371	Beta-BHC
8.191	163369	VB	0.042	1	40.841	Gamma-BHC
8.746	139615	BB	0.047	1	40.072	Delta-BHC
10.293	175106	BB	0.053	1	40.200	Heptachlor
11.526	153248	BB	0.055	1	42.646	Aldrin
13.023	160839	BB	0.062	1	37.531	Heptachlor Epoxide
14.021	166821	BB	0.066	1	42.657	Gamma Chlordane
14.608	148019	BV	0.064	1	42.035	Endosulfan I
14.698	175514	VB	0.068	1	41.892	Alpha Chlordane
15.564	141994	BV	0.068	1	41.387	4,4'-DDE
15.814	138560	VB	0.069	1	39.890	Dieldrin
16.890	112418	BB	0.073	1	39.304	Endrin
17.320	147311	BB	0.075	1	42.317	Endosulfan II
17.665	99830	BB	0.074	1	40.395	4,4'-DDD
18.270	132507	BB	0.082	1	43.091	Endrin Aldehyde
19.555	129593	BV	0.082	1	41.981	Endosulfan Sulfate
19.707	102744	VB	0.078	1	39.200	4,4'-DDT
21.609	153566	BB	0.053	1	40.831	Endrin Ketone
22.010	63526	BB	0.048	1	41.684	Methoxychlor
26.638	228534	BB	0.062	1	63.344	Decachlorobiphenyl



1.0e4 2.0e4 3.0e4 4.0e4 5.0e4 6.0e4 7.0e4 8.0e4


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=====
Data File Name   : G:\HPCHEM\2\DATA\000328\042F0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : PCB-100 S110499D
Run Time Bar Code:
Acquired on    : 30 Mar 00 00:07 AM
Report Created on: 30 Mar 00 09:31 AM

Page Number     : 1
Vial Number     : 42
Injection Number: 1
Sequence Line   : 1
Instrument Method: 8081.MTH
Analysis Method  : PCB.MTH
    
```

Sig. 1 in G:\HPCHEM\2\DATA\000328\042F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.654	28773	10897	BV	0.040	4.5734
2	7.228	64653	21850	BB	0.045	10.2764
3	7.514	2088	544	BB	0.055	0.3319
4	9.065	6741	1750	BV	0.058	1.0715
5	10.511	18138	3204	BB	0.089	2.8830
6	11.365	13283	2287	BV	0.084	2.1113
7	11.702	7528	1378	VV	0.080	1.1966
8	11.913	13011	3107	VV	0.064	2.0681
9	11.997	23118	3903	VB	0.086	3.6746
10	12.693	12149	2108	BB	0.086	1.9310
11	13.330	18177	2648	VV	0.107	2.8892
12	13.584	8760	1600	VV	0.083	1.3923
13	13.728	3903	741	VV	0.077	0.6204
14	13.915	6352	725	VB	0.119	1.0097
15	14.947	11713	1997	BV	0.088	1.8617
16	15.172	3602	718	VB	0.078	0.5725
17	15.466	2926	605	BV	0.076	0.4650
18	15.595	4994	946	VB	0.081	0.7937
19	17.061	8218	1352	BB	0.092	1.3063
20	17.379	6881	1238	BB	0.087	1.0937
21	20.373	14271	2159	BV	0.107	2.2684
22	20.751	2789	649	VV	0.065	0.4433
23	20.851	2730	674	VV	0.064	0.4340
24	21.198	24473	4890	BB	0.077	3.8899
25	21.514	27146	6620	BB	0.063	4.3148
26	22.195	8684	2420	BB	0.056	1.3803
27	22.609	14613	4023	BV	0.055	2.3226
28	22.721	10077	2787	VV	0.055	1.6017
29	22.867	20103	5611	VV	0.054	3.1953
30	22.946	18161	5242	VV	0.052	2.8866
31	23.114	9372	2787	VV	0.051	1.4896
32	23.344	4315	635	VV	0.092	0.6858
33	23.487	2999	813	VB	0.056	0.4767
34	23.916	12448	3741	VV	0.052	1.9786
35	24.014	4217	1102	VV	0.057	0.6702
36	24.146	9232	2372	VV	0.059	1.4674

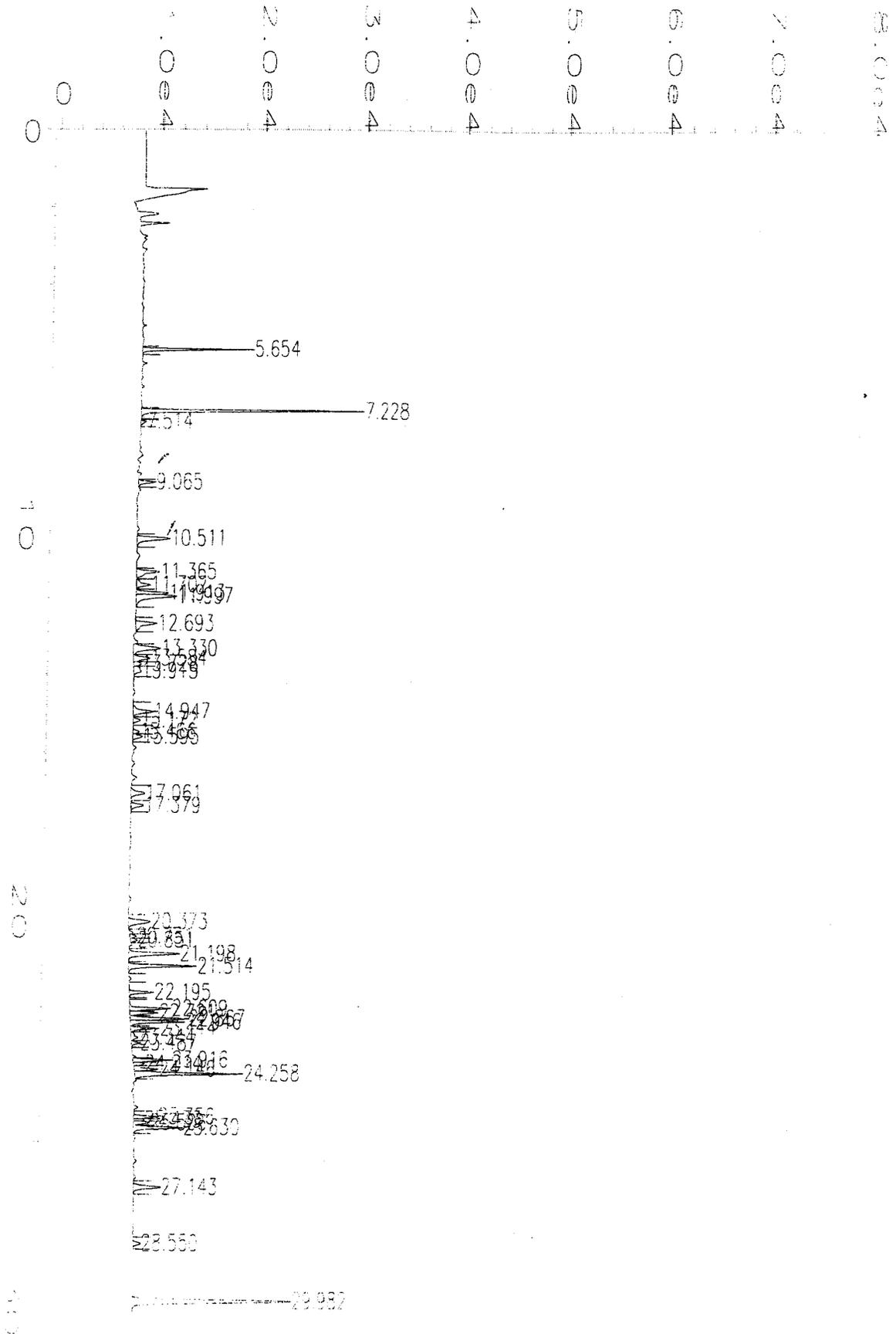
83545

132313

37	21.233	8673	2327	BV	0.057	0.2336
38	25.356	3203	1063	VV	0.044	1.3786 ¹⁰¹
39	25.433	6197	1592	VV	0.059	0.5092
40	25.506	19486	4765	VV	0.063	0.9850
41	25.630	13664	2625	BB	0.079	3.0972
42	27.143	3730	790	BB	0.074	2.1718
43	28.550	84333	15379	BB	0.085	0.5929
44	29.982					13.4044

Total area = 629144

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DATA\00328\04270101.D

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Data File Name   : G:\HPCHEM\2\DATA\000328\041F0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : PCB-200 S110499C
Run Time Bar Code:
Acquired on    : 29 Mar 00  11:30 PM
Report Created on: 30 Mar 00  09:31 AM

Page Number    : 1
Vial Number    : 41
Injection Number : 1
Sequence Line  : 1
Instrument Method: 8081.MTH
Analysis Method : PCB.MTH
    
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Sig. 1 in G:\HPCHEM\2\DATA\000328\041F0101.D

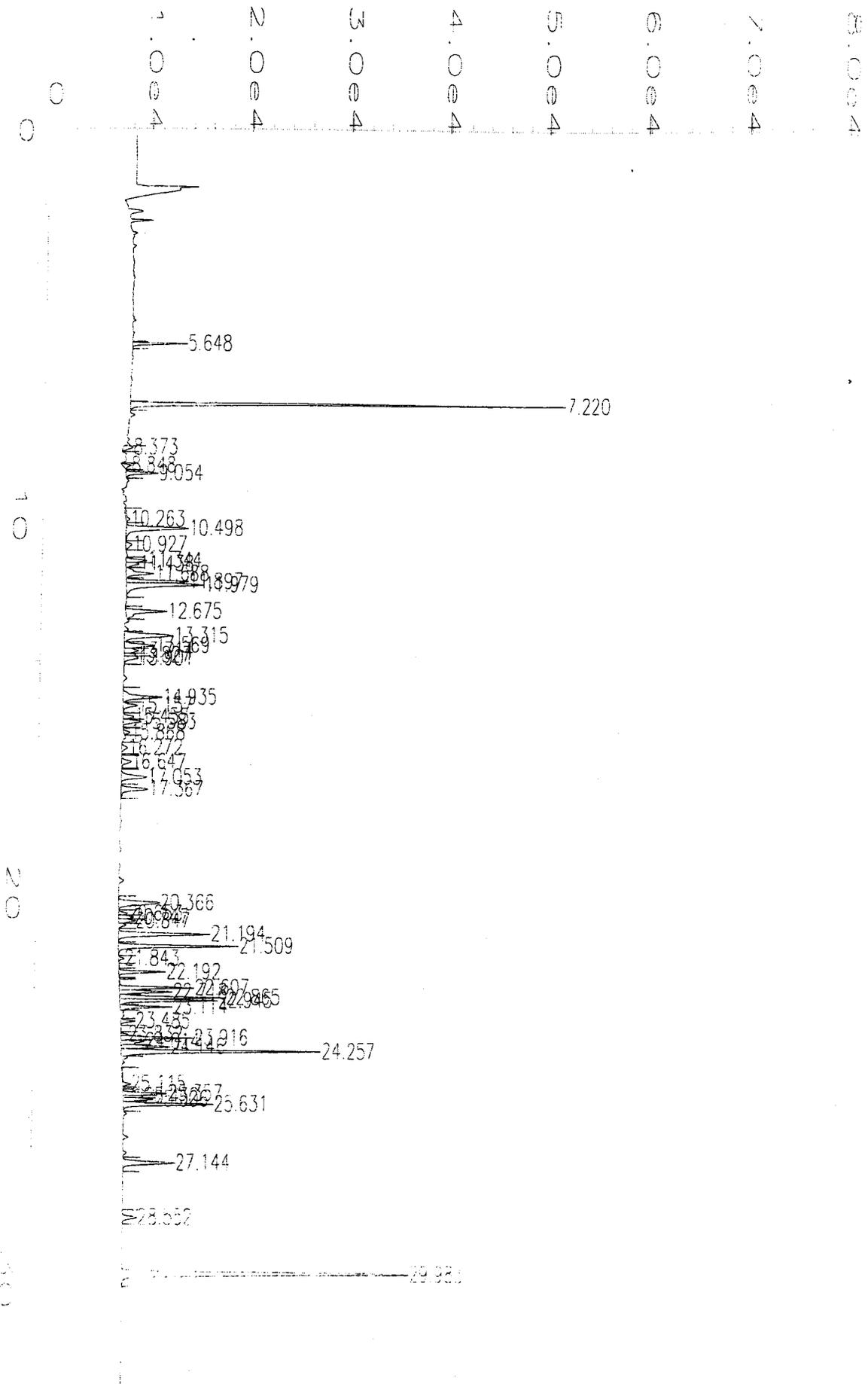
Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.648	14482	5532	BB	0.040	1.2073
2	7.220	128579	43904	BB	0.044	10.7189
3	8.373	5245	1002	VV	0.072	0.4372
4	8.848	3920	909	PB	0.063	0.3268
5	9.054	11736	3277	BV	0.055	0.9783
6	10.263	3170	422	PB	0.103	0.2643
7	10.498	36117	6249	BV	0.090	3.0109
8	10.927	4370	652	PV	0.095	0.3643
9	11.344	9325	2153	VV	0.066	0.7774
10	11.438	6332	1311	VV	0.072	0.5279
11	11.688	15980	2816	VV	0.083	1.3321
12	11.897	25136	6197	VV	0.062	2.0955
13	11.979	45204	7768	VB	0.084	3.7682
14	12.675	23683	4141	BV	0.085	1.9743
15	13.315	32887	4940	VV	0.106	2.7416
16	13.569	16097	3083	VV	0.079	1.3420
17	13.714	7543	1419	VV	0.079	0.6288
18	13.827	4626	1148	VV	0.067	0.3856
19	13.901	7566	1426	VB	0.079	0.6307
20	14.935	23486	3906	BV	0.090	1.9579
21	15.157	7987	1459	VB	0.083	0.6659
22	15.455	5308	1115	BV	0.075	0.4425
23	15.583	9673	1858	VB	0.080	0.8064
24	15.868	2860	645	BV	0.071	0.2384
25	16.272	3491	601	BB	0.089	0.2910
26	16.647	5986	970	BB	0.095	0.4990
27	17.053	15999	2591	BV	0.095	1.3337
28	17.367	16269	2750	PB	0.091	1.3562
29	20.366	27768	4124	BV	0.109	2.3148
30	20.653	3886	919	VV	0.064	0.3240
31	20.747	6890	1525	VV	0.068	0.5744
32	20.847	7854	1681	VV	0.071	0.6547
33	21.194	45903	9198	VV	0.075	3.8266
34	21.509	50250	12019	PV	0.064	4.1890
35	21.843	2098	563	VB	0.058	0.1749
36	22.192	16680	4749	BB	0.054	1.3905

38	22.718	19555	5303	VV	0.056	1.6302 ¹⁰⁴
39	22.865	37900	10579	VV	0.054	3.1595
40	22.945	33896	9813	VV	0.052	2.8257
41	23.114	17600	5238	VV	0.052	1.4672
42	23.485	4977	1480	VB	0.052	0.4149
43	23.832	1887	685	BV	0.046	0.1573
44	23.916	24738	7221	VV	0.053	2.0623
45	24.014	11723	2374	VV	0.070	0.9773
46	24.146	17736	4873	VV	0.055	1.4786
47	24.257	79497	20007	VV	0.059	6.6272
48	25.115	4121	809	PB	0.075	0.3435
49	25.357	16183	4420	BV	0.056	1.3491
50	25.432	6264	2048	VV	0.051	0.5222
51	25.506	11433	3023	VV	0.057	0.9531
52	25.631	35740	9017	VV	0.061	2.9794
53	27.144	26980	5165	BB	0.080	2.2492
54	28.552	7002	1480	BB	0.074	0.5837
55	29.983	160928	28773	BB	0.088	13.4157

247640

Total area = 1199554

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0 100 200 300

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=====
Data File Name   : G:\HPCHEM\2\DATA\000328\040F0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : PCB-500 S110199A
Run Time Bar Code:
Acquired on    : 29 Mar 00 10:53 PM
Report Created on: 30 Mar 00 09:30 AM

Page Number     : 1
Vial Number     : 40
Injection Number: 1
Sequence Line   : 1
Instrument Method: 8081.MTH
Analysis Method : PCB.MTH
    
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Sig. 1 in G:\HPCHEM\2\DATA\000328\040F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.646	41475	15659	BV	0.040	1.2316
2	6.008	1631	559	BB	0.044	0.0484
3	7.216	348411	117434	BV	0.045	10.3457
4	8.169	4243	1155	VV	0.055	0.1260
5	8.312	3491	1287	VV	0.042	0.1037
6	8.368	8044	2056	VB	0.057	0.2388
7	8.839	8693	2222	BV	0.059	0.2581
8	9.052	39049	10133	PV	0.058	1.1595
9	10.267	6236	1434	BV	0.066	0.1852
10	10.499	89496	16089	PB	0.088	2.6575
11	10.927	9996	1548	BV	0.091	0.2968
12	11.351	68244	11311	VV	0.087	2.0264
13	11.595	8418	2194	VV	0.058	0.2500
14	11.691	34911	7598	VV	0.070	1.0367
15	11.891	68283	17345	VV	0.060	2.0276
16	11.974	122148	21937	VB	0.081	3.6271
17	12.673	60197	12389	BV	0.074	1.7875
18	12.795	9895	2180	VV	0.067	0.2938
19	12.948	7737	1582	VV	0.075	0.2297
20	13.156	8002	1813	VV	0.069	0.2376
21	13.312	87335	12401	VV	0.113	2.5933
22	13.572	41263	8034	VV	0.078	1.2253
23	13.719	20012	3783	VV	0.079	0.5942
24	13.835	11823	3038	VV	0.065	0.3511
25	13.907	20776	3924	VB	0.079	0.6169
26	14.444	5114	1052	BB	0.076	0.1519
27	14.940	66618	10565	BV	0.093	1.9781
28	15.163	24282	4358	VV	0.084	0.7210
29	15.459	16268	3261	VV	0.077	0.4831
30	15.587	30511	5625	VV	0.083	0.9060
31	15.874	12651	2329	VV	0.082	0.3757
32	15.994	6573	1197	VV	0.082	0.1952
33	16.271	10134	1816	PB	0.086	0.3009
34	16.650	17876	2749	BV	0.101	0.5308
35	17.059	44019	7065	PV	0.094	1.3071
36	17.371	46201	7693	VB	0.092	1.3719

449282

38	19.784	8335	1469	BB	0.089	0.2475107
39	20.368	<u>76233</u>	11274	BV	0.108	2.2637
40	20.654	11519	2703	VV	0.065	0.3421
41	20.748	19610	4208	VV	0.070	0.5823
42	20.848	21972	4564	VV	0.073	0.6524
43	20.954	10923	2308	VV	0.071	0.3243
44	21.194	<u>119030</u>	23557	VV	0.077	3.5345
45	21.508	<u>130093</u>	30945	VV	0.064	3.8630
46	21.843	6568	1668	PV	0.060	0.1950
47	22.191	47033	13546	VB	0.053	1.3966
48	22.606	69951	19410	VV	0.055	2.0771
49	22.717	54100	15079	VV	0.054	1.6064
50	22.863	<u>101921</u>	28446	VV	0.054	3.0265
51	22.943	<u>89735</u>	25266	VV	0.053	2.6646
52	23.112	47868	14287	VV	0.051	1.4214
53	23.239	4432	1008	VV	0.064	0.1316
54	23.484	14556	4280	VV	0.052	0.4322
55	23.830	6146	1965	VV	0.047	0.1825
56	23.913	66445	19497	VV	0.052	1.9730
57	24.010	34723	6700	VV	0.073	1.0311
58	24.144	47194	13253	VV	0.054	1.4014
59	24.254	217357	55234	VV	0.059	6.4542
60	24.546	3356	755	VB	0.066	0.0996
61	25.112	14935	2529	BV	0.084	0.4435
62	25.354	<u>48273</u>	12651	VV	0.058	1.4334
63	25.428	20149	6508	VV	0.052	0.5983
64	25.504	35193	9119	VV	0.058	1.0450
65	25.626	<u>105552</u>	26068	VV	0.062	3.1343
66	25.878	6507	1209	PB	0.077	0.1932
67	26.473	5359	1345	BB	0.063	0.1591
68	26.881	4209	1040	BV	0.063	0.1250
69	27.139	77394	15069	PB	0.077	2.2981
70	28.546	20007	4251	BB	0.074	0.5941
71	29.974	407832	71924	BB	0.088	12.1102

670837

Total area = 3367686

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Data File Name   : G:\HPCHEM\2\DATA\000328\039F0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : PCB-1K S110499B
Run Time Bar Code:
Acquired on    : 29 Mar 00  10:16 PM
Report Created on: 30 Mar 00  09:30 AM

Page Number     : 1
Vial Number     : 39
Injection Number: 1
Sequence Line   : 1
Instrument Method: 8081.MTH
Analysis Method : PCB.MTH
    
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Sig. 1 in G:\HPCHEM\2\DATA\000328\039F0101.D

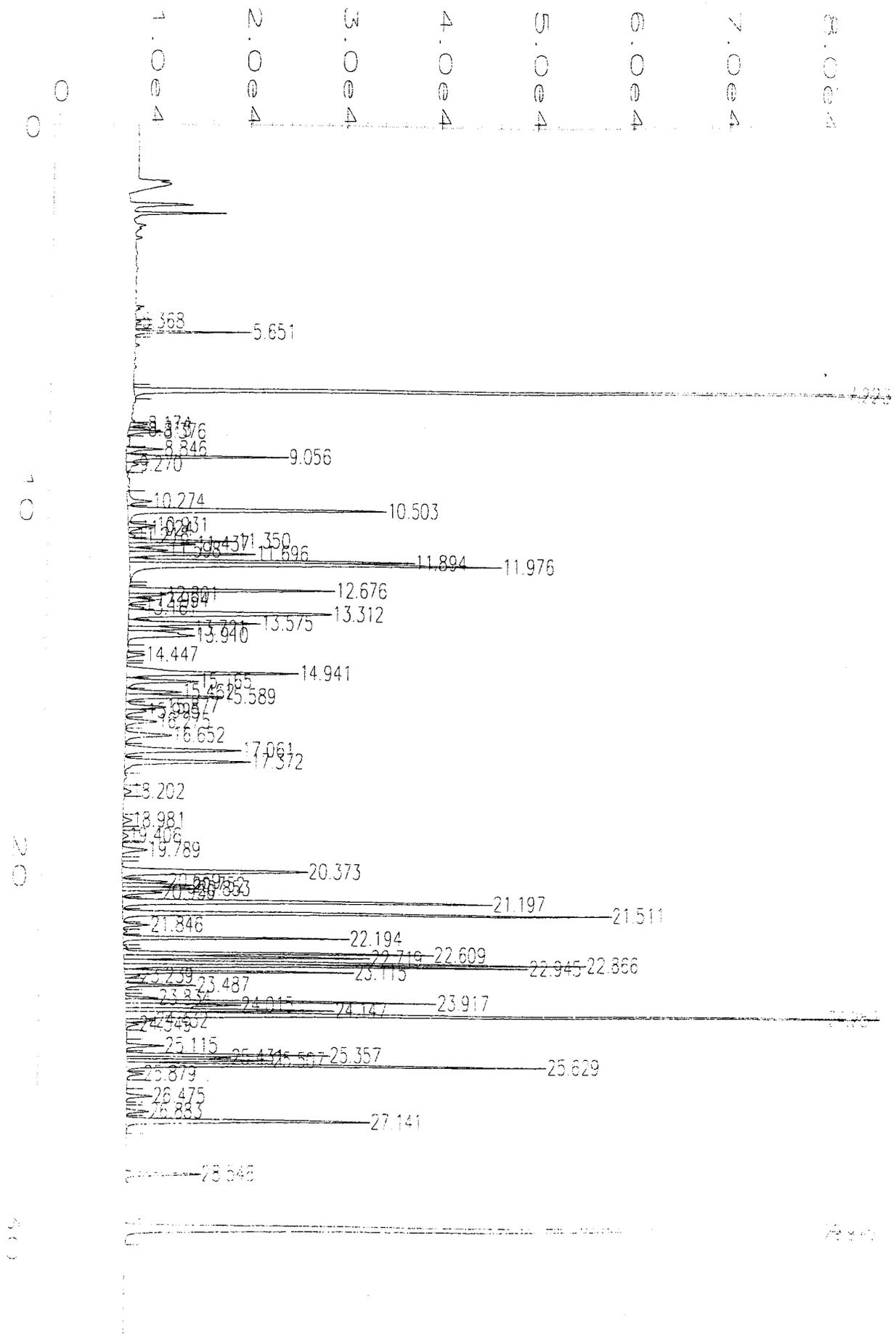
PK#	Ret Time	Area	Height	Type	Width	Area %
1	5.368	1717	580	BB	0.045	0.0307
2	5.651	31963	12154	BV	0.040	0.5725
3	7.223	563998	190231	BV	0.045	10.1015
4	8.174	7086	1841	VV	0.058	0.1269
5	8.313	6076	2017	VV	0.045	0.1088
6	8.376	14649	3656	VV	0.059	0.2624
7	8.846	16788	3908	BV	0.063	0.3007
8	9.056	67543	16814	VV	0.060	1.2097
9	9.270	10094	1314	VV	0.103	0.1808
10	10.274	16515	2581	VV	0.090	0.2958
11	10.503	153865	26951	VV	0.090	2.7558
12	10.931	12909	2875	VV	0.068	0.2312
13	11.024	5440	1221	VV	0.065	0.0974
14	11.216	3275	729	VV	0.068	0.0587
15	11.350	46976	11224	VV	0.064	0.8414
16	11.437	30849	6955	VV	0.066	0.5525
17	11.598	15908	4035	VV	0.060	0.2849
18	11.696	60275	13116	VV	0.070	1.0796
19	11.894	117171	29678	VV	0.060	2.0986
20	11.976	206634	38853	VB	0.077	3.7009
21	12.676	102451	21375	BV	0.074	1.8350
22	12.801	17683	3815	VV	0.069	0.3167
23	12.954	13831	2771	VV	0.077	0.2477
24	13.161	6614	1591	VV	0.064	0.1185
25	13.312	149053	21103	VV	0.113	2.6696
26	13.575	70442	13693	VV	0.079	1.2617
27	13.721	35497	6782	VV	0.078	0.6358
28	13.910	57955	6969	VB	0.114	1.0380
29	14.447	9207	1879	VB	0.076	0.1649
30	14.941	112701	17871	BV	0.093	2.0185
31	15.165	42330	7513	VV	0.085	0.7582
32	15.462	28282	5720	VV	0.076	0.5065
33	15.589	53659	10056	VV	0.081	0.9611
34	15.877	22902	4156	VV	0.083	0.4102
35	15.995	12279	2198	VV	0.084	0.2199
36	16.275	18848	3308	VV	0.087	0.3376

38	17.061	75474	12032	VV	0.094	1.3518 ¹¹⁰
39	17.372	78323	13016	VV	0.093	1.4028
40	18.202	4153	758	BB	0.088	0.0744
41	18.981	5533	955	BB	0.090	0.0991
42	19.406	3227	599	BB	0.084	0.0578
43	19.789	15031	2623	BB	0.090	0.2692
44	20.373	130513	19283	BV	0.110	2.3375
45	20.659	20376	4725	VV	0.066	0.3649
46	20.752	33608	7162	VV	0.070	0.6019
47	20.853	37039	7726	VV	0.072	0.6634
48	20.956	19232	4118	VV	0.070	0.3444
49	21.197	195401	38669	VV	0.077	3.4997
50	21.511	212181	51045	VV	0.063	3.8003
51	21.846	10861	2836	VV	0.059	0.1945
52	22.194	81459	23482	VV	0.053	1.4590
53	22.609	115588	32431	VV	0.054	2.0702
54	22.719	93154	25611	VV	0.055	1.6684
55	22.866	170201	48227	VV	0.053	3.0484
56	22.945	148533	42267	VV	0.052	2.6603
57	23.115	80675	23912	VV	0.052	1.4449
58	23.239	6420	1613	VV	0.058	0.1150
59	23.487	24175	7343	VB	0.051	0.4330
60	23.834	9256	3340	BV	0.046	0.1658
61	23.917	111514	32434	VV	0.053	1.9973
62	24.015	60904	11901	VV	0.072	1.0908
63	24.147	78582	21622	VV	0.055	1.4074
64	24.257	366201	94125	VV	0.057	6.5588
65	24.432	11954	3036	VV	0.059	0.2141
66	24.549	5402	1302	VV	0.062	0.0968
67	25.115	14767	3918	BV	0.059	0.2645
68	25.357	76706	21090	PV	0.056	1.3738
69	25.431	33694	10752	VV	0.046	0.6035
70	25.507	56935	15004	VV	0.057	1.0197
71	25.629	173340	43874	VV	0.061	3.1046
72	25.879	7074	1682	VB	0.064	0.1267
73	26.475	10918	2682	BB	0.064	0.1956
74	26.883	9568	2356	BV	0.064	0.1714
75	27.141	135479	25380	PB	0.083	2.4265
76	28.546	36581	7757	BB	0.073	0.6552
77	29.975	647222	113117	BB	0.089	11.5920

1106875

Total area = 5583330

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DATA\000328\039\010

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Data File Name   : G:\HPCHEM\2\DATA\000328\038F0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : PCB-2K S110499A
Run Time Bar Code:
Acquired on    : 29 Mar 00 09:38 PM
Report Created on: 30 Mar 00 09:30 AM

Page Number     : 1
Vial Number     : 38
Injection Number: 1
Sequence Line   : 1
Instrument Method: 8081.MTH
Analysis Method  : PCB.MTH

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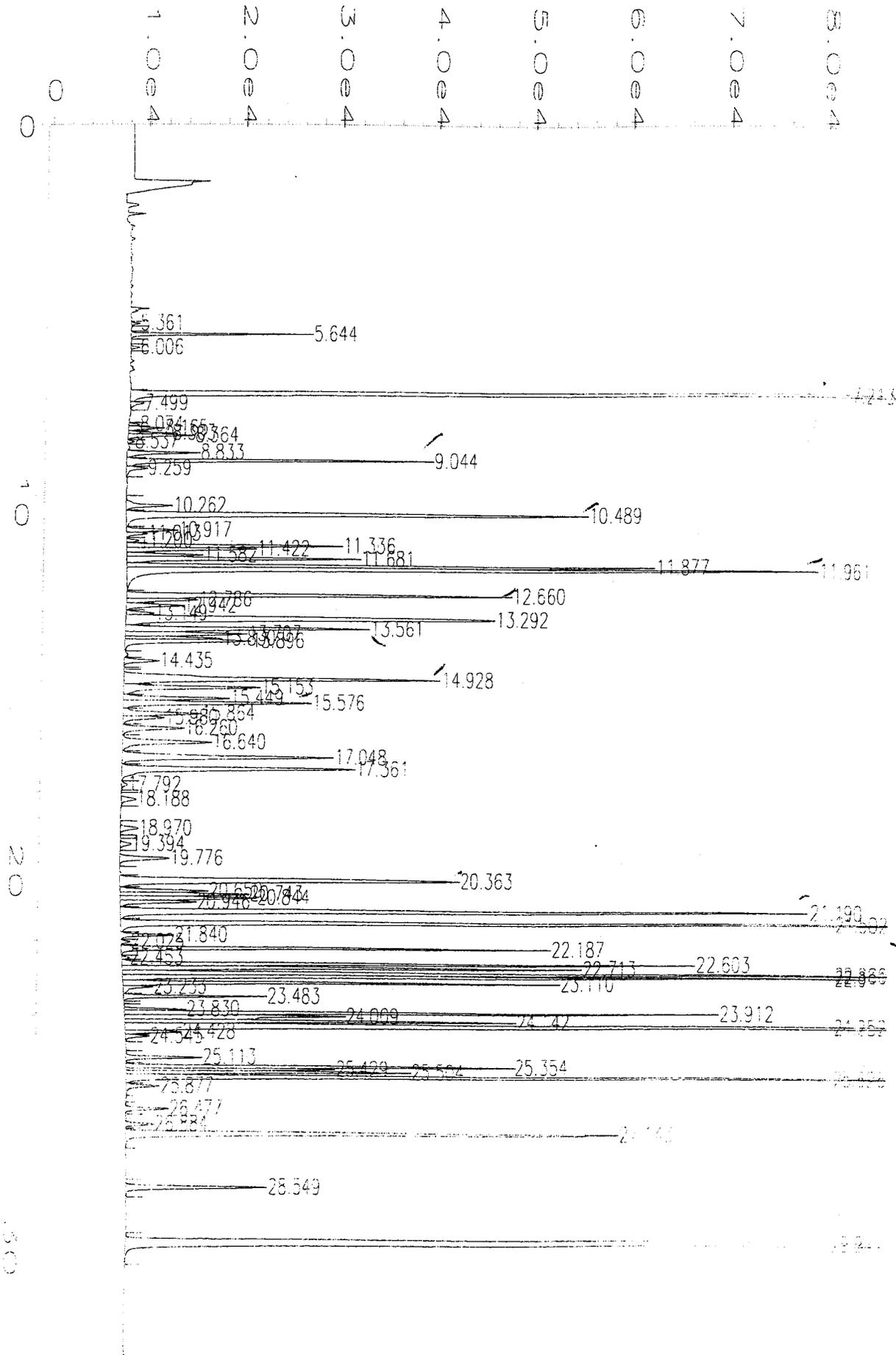
Sig. 1 in G:\HPCHEM\2\DATA\000328\038F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.361	2415	918	BB	0.040	0.0231
2	5.644	49729	18828	BV	0.040	0.4758
3	6.006	2733	938	BB	0.044	0.0261
4	7.213	1101827	365343	VV	0.046	10.5432
5	7.499	6481	1408	VB	0.064	0.0620
6	8.074	3316	1095	BV	0.047	0.0317
7	8.165	13841	3681	VV	0.056	0.1324
8	8.303	12665	4480	VV	0.043	0.1212
9	8.364	25806	6878	VV	0.056	0.2469
10	8.537	2372	706	PV	0.052	0.0227
11	8.833	29571	7518	PV	0.059	0.2830
12	9.044	<u>121935</u>	31769	VV	0.058	1.1668
13	9.259	11409	2194	VV	0.074	0.1092
14	10.262	23049	4798	BV	0.071	0.2206
15	10.489	<u>267750</u>	47819	VV	0.088	2.5621
16	10.917	21973	5291	VV	0.064	0.2103
17	11.013	9287	2144	VV	0.065	0.0889
18	11.200	4947	1258	VV	0.062	0.0473
19	11.336	93864	22246	VV	0.064	0.8982
20	11.422	57439	13330	VV	0.063	0.5496
21	11.582	30860	7842	VV	0.060	0.2953
22	11.681	110380	24190	VV	0.069	1.0562
23	11.877	212979	54530	VV	0.060	2.0380
24	11.961	<u>369821</u>	71166	VB	0.076	3.5388
25	12.660	<u>187942</u>	39831	BV	0.072	1.7984
26	12.786	33571	7340	VV	0.068	0.3212
27	12.942	29002	5823	VV	0.076	0.2775
28	13.149	11907	2861	VV	0.065	0.1139
29	13.292	273297	38169	VV	0.115	2.6151
30	13.561	<u>126837</u>	25266	VV	0.076	1.2137
31	13.707	66146	12525	VV	0.079	0.6329
32	13.830	37629	9949	VV	0.063	0.3601
33	13.896	70565	12922	VV	0.080	0.6752
34	14.435	18008	3614	VB	0.077	0.1723
35	14.928	<u>208055</u>	32745	BV	0.094	1.9908
36	15.153	79347	14033	VV	0.086	0.7593

38	15.576	<u>102820</u>	19387	VV	0.081	0.9839113
39	15.864	44524	8036	VV	0.083	0.4260
40	15.980	23539	4254	VV	0.083	0.2252
41	16.260	36514	6296	VV	0.089	0.3494
42	16.640	63400	9208	VV	0.107	0.6067
43	17.048	139521	21806	VV	0.096	1.3351
44	17.361	147355	24072	VV	0.094	1.4100
45	17.792	3543	619	VB	0.087	0.0339
46	18.188	9074	1534	BB	0.091	0.0868
47	18.970	10888	1857	BB	0.091	0.1042
48	19.394	6316	1131	BB	0.088	0.0604
49	19.776	29480	5099	BB	0.091	0.2821
50	20.363	<u>240562</u>	35106	VV	0.111	2.3019
51	20.650	39269	9103	VV	0.066	0.3758
52	20.743	62249	13236	VV	0.070	0.5957
53	20.844	67994	13994	VV	0.073	0.6506
54	20.946	36808	7826	VV	0.070	0.3522
55	21.190	<u>350575</u>	70841	VV	0.075	3.3546
56	21.502	<u>377607</u>	92019	VV	0.062	3.6133
57	21.840	20917	5435	VV	0.059	0.2002
58	22.025	3308	971	VV	0.053	0.0317
59	22.187	155527	44249	PV	0.054	1.4882
60	22.453	2541	795	VV	0.050	0.0243
61	22.603	208141	59100	VV	0.054	1.9917
62	22.713	173791	47503	VV	0.055	1.6630
63	22.860	<u>312749</u>	87764	VV	0.054	2.9927
64	22.941	<u>272088</u>	75931	VV	0.053	2.6036
65	23.110	149776	45189	VV	0.051	1.4332
66	23.233	13661	3060	VV	0.063	0.1307
67	23.483	47403	14662	VB	0.050	0.4536
68	23.830	17620	6327	BV	0.043	0.1686
69	23.912	208977	61180	VV	0.052	1.9997
70	24.009	120246	22757	VV	0.074	1.1506
71	24.142	144861	40534	VV	0.054	1.3862
72	24.252	681335	172982	VV	0.058	6.5196
73	24.428	22749	5795	VV	0.058	0.2177
74	24.545	9631	2449	VV	0.060	0.0922
75	25.113	30172	7828	BV	0.060	0.2887
76	25.354	<u>150222</u>	40364	VV	0.057	1.4375
77	25.429	66763	21510	VV	0.045	0.6388
78	25.504	113882	29417	VV	0.059	1.0897
79	25.626	<u>331225</u>	82708	VV	0.061	3.1695
80	25.877	14401	3427	VB	0.063	0.1378
81	26.477	17622	4421	BB	0.062	0.1686
82	26.884	12079	2941	BV	0.065	0.1156
83	27.143	269506	50884	PB	0.080	2.5789
84	28.549	69081	14486	BB	0.074	0.6610
85	29.977	1235582	215312	BB	0.088	11.8231

20 35028

Total area = 1.04505E+007



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=====
Data File Name   : G:\HPCHEM\2\DATA\000328\043F0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : PCB-ICV S012100A
Run Time Bar Code:
Acquired on    : 30 Mar 00  00:44 AM
Report Created on: 30 Mar 00  09:31 AM

Page Number     : 1
Vial Number     : 43
Injection Number : 1
Sequence Line   : 1
Instrument Method: 8081.MTH
Analysis Method  : PCB.MTH

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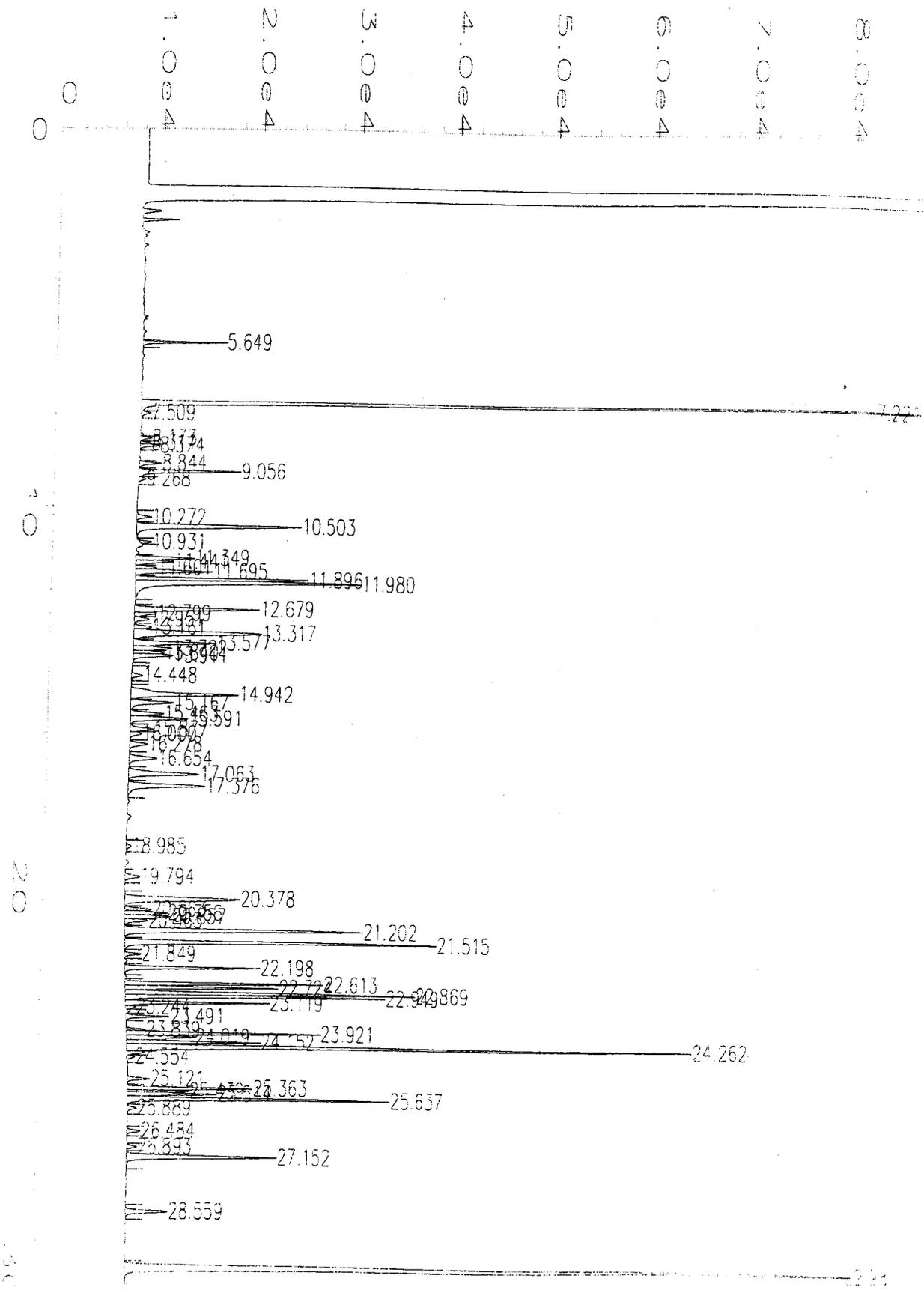
Sig. 1 in G:\HPCHEM\2\DATA\000328\043F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.649	22685	8585	BV	0.040	0.6691
2	7.221	362036	120907	BV	0.045	10.6783
3	7.509	3802	953	VB	0.058	0.1121
4	8.173	4438	1198	VV	0.055	0.1309
5	8.311	3155	1146	VV	0.042	0.0931
6	8.374	7443	1985	VV	0.056	0.2195
7	8.844	9294	2315	VV	0.060	0.2741
8	9.056	41811	10302	VV	0.061	1.2332
9	9.268	3591	765	VB	0.068	0.1059
10	10.272	6602	1512	BV	0.066	0.1947
11	10.503	92311	16561	PB	0.088	2.7227
12	10.931	4160	1203	BV	0.056	0.1227
13	11.349	24714	5945	VV	0.064	0.7289
14	11.441	17612	3839	VV	0.068	0.5195
15	11.601	8315	2193	VV	0.058	0.2452
16	11.695	35979	7772	VV	0.071	1.0612
17	11.896	69894	17385	VV	0.061	2.0615
18	11.980	126170	22697	VB	0.080	3.7214
19	12.679	61479	12570	BV	0.075	1.8133
20	12.799	10374	2235	VV	0.069	0.3060
21	12.951	7374	1526	VV	0.074	0.2175
22	13.161	7913	1794	PV	0.069	0.2334
23	13.317	89674	12835	VV	0.112	2.6450
24	13.577	42453	8285	VV	0.078	1.2522
25	13.722	20580	3942	VV	0.078	0.6070
26	13.840	12263	3100	VV	0.066	0.3617
27	13.911	21387	4073	VB	0.078	0.6308
28	14.448	5771	1102	BB	0.080	0.1702
29	14.942	68217	10796	BV	0.093	2.0121
30	15.167	25032	4397	VV	0.086	0.7383
31	15.463	16742	3376	VV	0.077	0.4938
32	15.591	31478	5790	VV	0.083	0.9285
33	15.877	12998	2361	VV	0.083	0.3834
34	16.000	6764	1219	VV	0.083	0.1995
35	16.278	10436	1841	VB	0.087	0.3078
36	16.654	18358	2836	BV	0.099	0.5415

38	17.376	46657	7736	VB	0.092	1.3344
39	18.985	3282	564	BB	0.090	1.3762 ¹¹⁶
40	19.794	8532	1492	BB	0.090	0.0968
41	20.378	77957	11583	BV	0.110	0.2517
42	20.663	11635	2730	VV	0.065	2.2994
43	20.756	20179	4332	VV	0.069	0.3432
44	20.857	22271	4701	VV	0.072	0.5952
45	20.963	10788	2336	VV	0.069	0.6569
46	21.202	120828	24049	VV	0.077	0.3182
47	21.515	131588	31599	VV	0.064	3.5639
48	21.849	6333	1667	VV	0.059	3.8812
49	22.198	48234	13615	PV	0.055	0.1868
50	22.613	71466	19980	VV	0.054	1.4227
51	22.724	55549	15376	VV	0.054	2.1079
52	22.869	104566	29267	VV	0.054	1.6384
53	22.949	91930	26252	VV	0.052	3.0842
54	23.119	49196	14422	VV	0.052	2.7115
55	23.244	4611	1028	VV	0.065	1.4510
56	23.491	14897	4437	VV	0.051	0.1360
57	23.839	6307	1996	VV	0.053	0.4394
58	23.921	68708	19633	VV	0.054	0.1860
59	24.019	35214	6897	VV	0.072	2.0266
60	24.152	48737	13457	VV	0.055	1.0386
61	24.262	222478	57281	VV	0.057	1.4375
62	24.554	3510	792	VV	0.065	6.5620
63	25.121	9682	2299	VB	0.064	0.1035
64	25.363	46284	12515	BV	0.064	0.2856
65	25.439	19398	6213	VV	0.057	1.3652
66	25.514	33727	8953	VV	0.052	0.5721
67	25.637	104119	26458	VV	0.057	0.9948
68	25.889	4186	972	PB	0.060	3.0710
69	26.484	5533	1375	BB	0.065	0.1235
70	26.893	4182	1043	BB	0.063	0.1632
71	27.152	79741	15046	BV	0.063	0.1234
72	28.559	20484	4248	PB	0.081	2.3520
73	29.987	419044	73310	BB	0.076	0.6042
					0.090	12.3598

Total area = 3390380

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Continuing Calibration Raw Data

Geomatrix Consultants

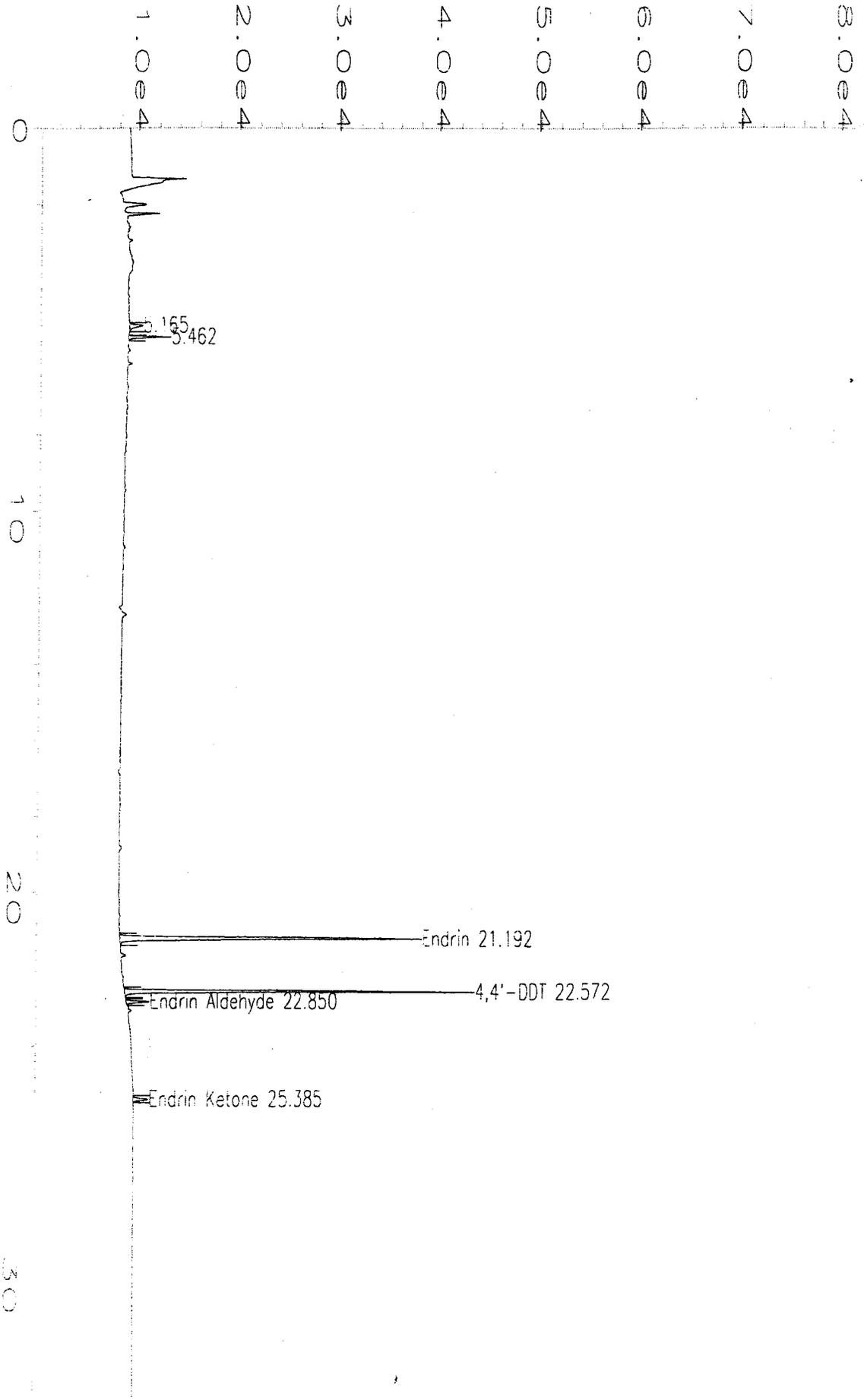
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Data File Name   : G:\HPCHEM\2\DATA\000405\024F0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 24
Sample Name     : EVAL S111899C                       Injection Number : 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 06 Apr 00 02:44 PM                   Instrument Method: 8081.MTH
Report Created on: 06 Apr 00 04:14 PM                 Analysis Method : PST0406F.MTH
Last Recalib on : 30 MAR 00 03:57 PM                 Sample Amount   : 0
Multiplier     : 1                                     ISTD Amount     :
  
```

Sig. 1 in G:\HPCHEM\2\DATA\000405\024F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
6.938	* not found *			1		2,4,5,6-Tetrachloro-m-Xylene
8.895	* not found *			1		Alpha-BHC
10.280	* not found *			1		Gamma-BHC
10.370	* not found *			1		Beta-BHC
11.558	* not found *			1		Heptachlor
11.984	* not found *			1		Delta-BHC
12.900	* not found *			1		Aldrin
15.630	* not found *			1		Heptachlor Epoxide
16.610	* not found *			1		Gamma Chlordane
17.300	* not found *			1		Alpha Chlordane
17.493	* not found *			1		Endosulfan I
18.882	* not found *			1		4,4'-DDE
19.280	* not found *			1		Dieldrin
21.192	119574	BB	0.062	1	51.382	Endrin
21.561	* not found *			1		4,4'-DDD
21.800	* not found *			1		Endosulfan II
22.572	102907	BB	0.045	1	51.713	4,4'-DDT
22.850	7181	BV	0.048	1	2.526	Endrin Aldehyde
23.143	* not found *			1		Endosulfan Sulfate
24.996	* not found *			1		Methoxychlor
25.385	5407	BB	0.056	1	1.955	Endrin Ketone
29.345	* not found *			1		Decachlorobiphenyl

Not all calibrated peaks were found

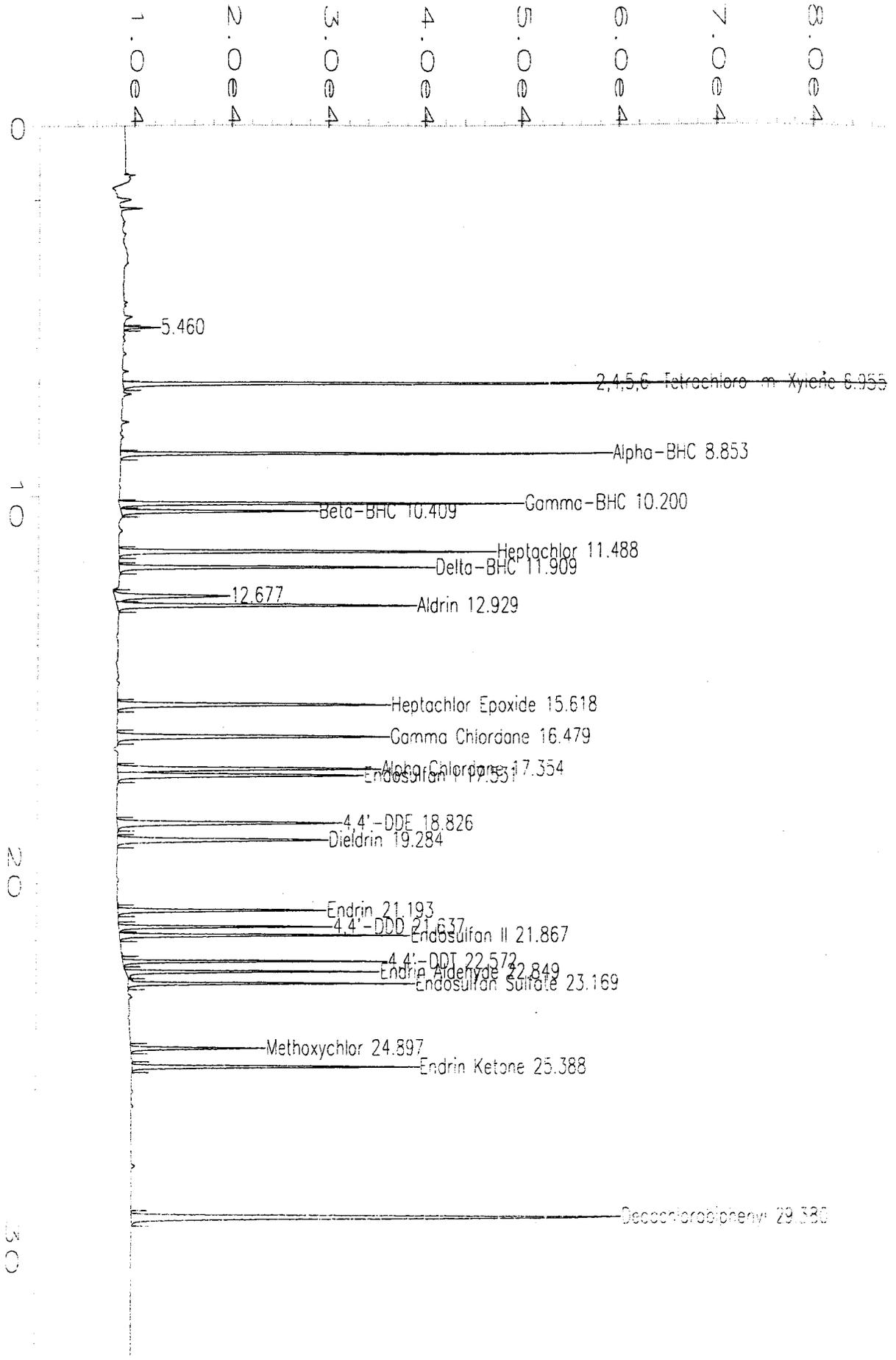


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=====
Data File Name      : G:\HPCHEM\2\DATA\000405\025F0101.D
Operator           : GC-17                               Page Number      : 1
Instrument         : GC 17 ECD                           Vial Number     : 25
Sample Name       : PEST-40 S112299D                     Injection Number : 1
Run Time Bar Code:                                       Sequence Line    : 1
Acquired on       : 06 Apr 00 03:22 PM                   Instrument Method: 8081.MTH
Report Created on : 06 Apr 00 04:14 PM                   Analysis Method  : PST0406F.MTH
Last Recalib on  : 30 MAR 00 03:57 PM                   Sample Amount   : 0
Multiplier        : 1                                    ISTD Amount     :
  
```

Sig. 1 in G:\HPCHEM\2\DATA\000405\025F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
6.955	236323	BB	0.043	1	79.094	2,4,5,6-Tetrachloro-m-Xylene
8.853	150172	BB	0.045	1	38.306	Alpha-BHC
10.200	141288	BV	0.052	1	38.323	Gamma-BHC
10.409	77044	VB	0.058	1	37.203	Beta-BHC
11.488	158766	BB	0.063	1	38.446	Heptachlor
11.909	122447	BB	0.058	1	39.779	Delta-BHC
12.929	135799	VB	0.067	1	39.108	Aldrin
15.618	138734	BB	0.076	1	38.000	Heptachlor Epoxide
16.479	140647	BB	0.078	1	36.711	Gamma Chlordane
17.354	139701	BV	0.080	1	37.744	Alpha Chlordane
17.531	130541	VB	0.079	1	37.306	Endosulfan I
18.826	118486	BB	0.079	1	36.583	4,4'-DDE
19.284	116282	BB	0.083	1	36.785	Dieldrin
21.193	85444	BB	0.062	1	37.922	Endrin
21.637	72635	BV	0.051	1	37.288	4,4'-DDD
21.867	106008	VB	0.055	1	38.181	Endosulfan II
22.572	79688	BB	0.045	1	40.726	4,4'-DDT
22.849	84032	BB	0.049	1	35.745	Endrin Aldehyde
23.169	91034	BB	0.047	1	39.233	Endosulfan Sulfate
24.897	46433	BB	0.052	1	39.609	Methoxychlor
25.388	106170	BB	0.056	1	36.781	Endrin Ketone
29.380	272814	BB	0.085	1	75.574	Decachlorobiphenyl



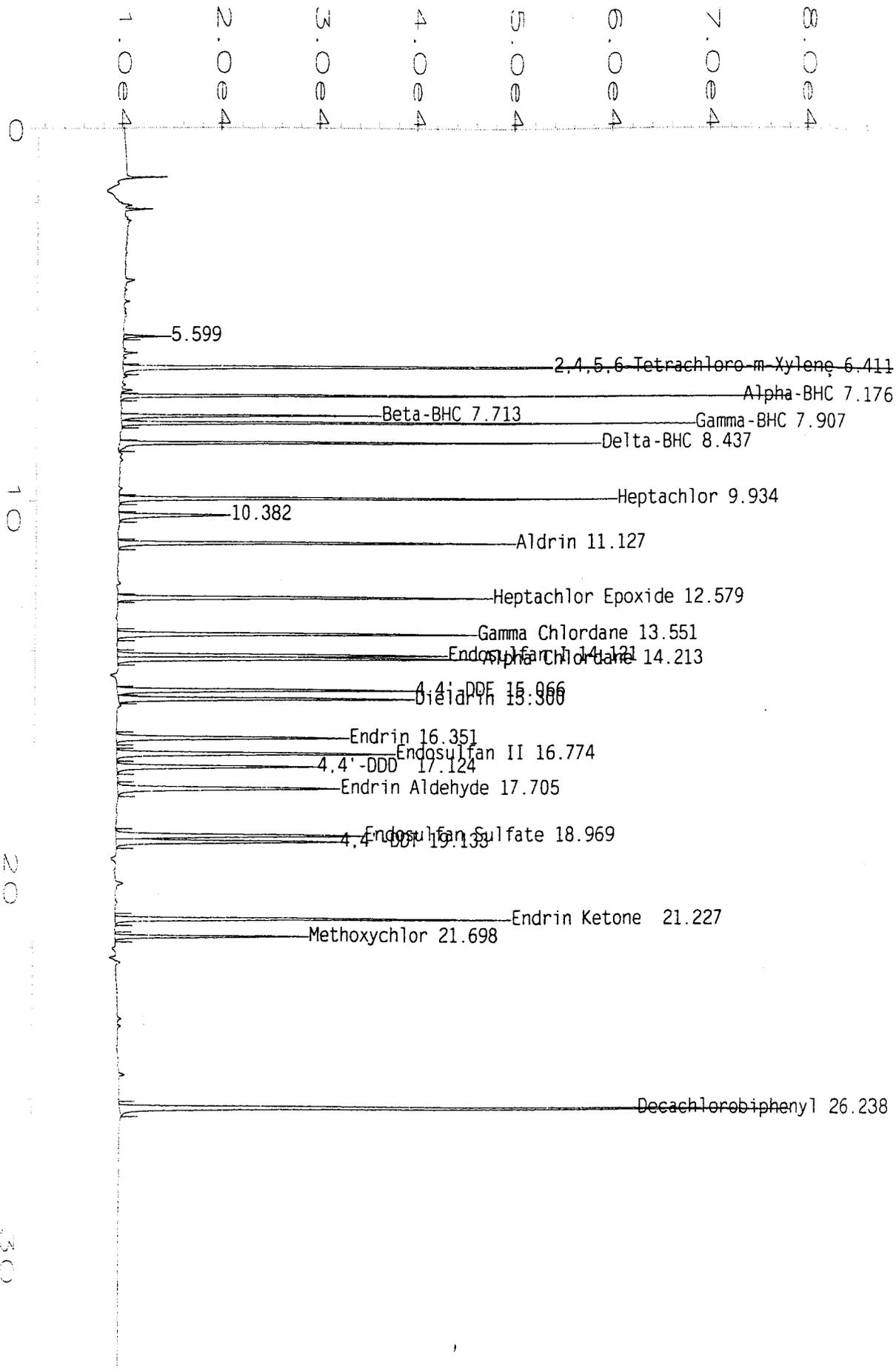
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Data File Name   : G:\HPCHEM\2\DATA\000405\025R0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : PEST-40 S112299D
Run Time Bar Code:
Acquired on    : 06 Apr 00 03:22 PM
Report Created on: 06 Apr 00 05:06 PM
Last Recalib on : 30 MAR 00 04:30 PM
Multiplier     : 1

Page Number    : 1
Vial Number    : 25
Injection Number : 1
Sequence Line  : 1
Instrument Method: 8081.MTH
Analysis Method : PST0406R.MTH
Sample Amount  : 0
ISTD Amount    :
  
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Sig. 2 in G:\HPCHEM\2\DATA\000405\025R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.411	243018	BB	0.038	1	81.286	2,4,5,6-Tetrachloro-m-Xylene
7.176	158980	BB	0.036	1	38.389	Alpha-BHC
7.713	79691	BV	0.045	1	38.080	Beta-BHC
7.907	151921	VB	0.040	1	38.151	Gamma-BHC
8.437	143199	BB	0.044	1	41.002	Delta-BHC
9.934	168130	BB	0.051	1	38.576	Heptachlor
11.127	142920	BB	0.054	1	39.790	Aldrin
12.579	149088	BB	0.061	1	35.002	Heptachlor Epoxide
13.551	152687	BB	0.064	1	39.025	Gamma Chlordane
14.121	137496	BV	0.062	1	39.008	Endosulfan I
15.213	163010	VB	0.066	1	38.928	Alpha Chlordane
15.066	133197	BV	0.068	1	38.877	4,4'-DDE
15.300	132790	VV	0.068	1	38.267	Dieldrin
16.351	109316	BB	0.072	1	38.305	Endrin
16.774	134319	BB	0.074	1	38.548	Endosulfan II
17.124	93695	BB	0.071	1	38.032	4,4'-DDD
17.705	118519	BB	0.082	1	38.247	Endrin Aldehyde
18.969	129425	BV	0.080	1	41.926	Endosulfan Sulfate
19.133	111154	VB	0.076	1	42.168	4,4'-DDT
21.227	149253	BB	0.057	1	39.656	Endrin Ketone
21.698	64987	BB	0.051	1	42.656	Methoxychlor
26.238	283563	BB	0.064	1	80.931	Decachlorobiphenyl



Data File Name : G:\HPCHEM\2\DATA\000405\026F0101.D
 Operator : GC-17 Page Number : 1
 Instrument : GC 17 ECD Vial Number : 26
 Sample Name : PCB-500 S011199B Injection Number : 1
 Run Time Bar Code: Sequence Line : 1
 Acquired on : 06 Apr 00 03:58 PM Instrument Method: 8081.MTH
 Report Created on: 06 Apr 00 04:48 PM Analysis Method : PCB.MTH

Sig. 1 in G:\HPCHEM\2\DATA\000405\026F0101.D

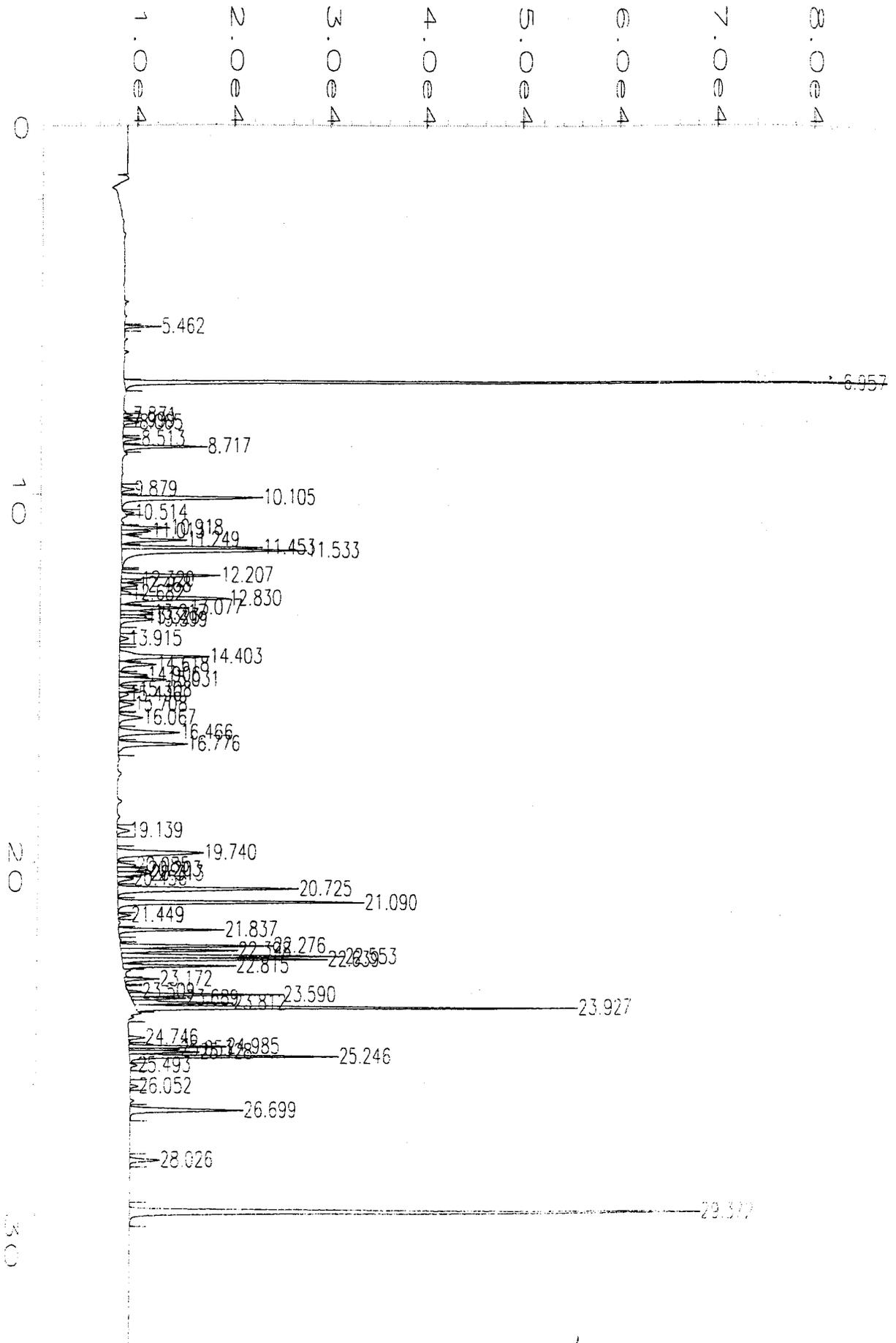
Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.462	9833	3826	BB	0.039	0.3618
2	6.957	286902	99289	BV	0.043	10.5548
3	7.871	3434	978	VV	0.054	0.1264
4	7.999	2491	900	VV	0.042	0.0916
5	8.065	6009	1628	VB	0.055	0.2211
6	8.513	7268	1886	BV	0.058	0.2674
7	8.717	33777	8689	PV	0.059	1.2426
8	9.879	5429	1299	BV	0.063	0.1997
9	10.105	78241	14587	PB	0.084	2.8784
10	10.514	3015	972	BV	0.050	0.1109
11	10.918	20882	5049	VV	0.063	0.7682
12	11.013	14662	3102	VV	0.071	0.5394
13	11.249	37194	6705	VV	0.081	1.3683
14	11.453	56489	14542	VV	0.059	2.0782
15	11.533	113168	19128	VB	0.084	4.1633
16	12.207	51655	10217	BV	0.077	1.9003
17	12.320	8762	2058	VV	0.063	0.3224
18	12.468	8210	1753	VV	0.072	0.3020
19	12.682	4542	1053	PV	0.067	0.1671
20	12.830	77732	11137	VV	0.111	2.8597
21	13.077	36671	7113	VV	0.078	1.3491
22	13.217	17582	3398	VV	0.077	0.6468
23	13.323	10982	2707	VV	0.060	0.4040
24	13.399	18686	3493	VB	0.079	0.6874
25	13.915	4336	904	BB	0.075	0.1595
26	14.403	56656	9290	BV	0.091	2.0843
27	14.618	21694	3774	VV	0.086	0.7981
28	14.906	14000	2887	VV	0.074	0.5151
29	15.031	26791	4901	VV	0.083	0.9856
30	15.308	10828	1986	VV	0.083	0.3984
31	15.436	5522	968	VB	0.086	0.2032
32	15.708	8631	1517	BB	0.087	0.3175
33	16.067	15262	2480	BV	0.094	0.5615
34	16.466	38282	6290	PV	0.092	1.4084
35	16.776	41657	7101	VB	0.090	1.5325
36	19.139	7310	1291	BB	0.089	0.2689

37	19.740	07211	0004	BV	0.125	2.4726	126
38	20.085	9997	1929	VV	0.079	0.3678	
39	20.203	17127	3154	VV	0.082	0.6301	
40	20.313	18995	3408	VV	0.084	0.6988	
41	20.456	8749	1633	VV	0.082	0.3219	
42	20.725	106545	18725	VV	0.085	3.9197	
43	21.090	116362	25548	VV	0.070	4.2808	
44	21.449	5195	1314	VV	0.061	0.1911	
45	21.837	40503	10913	PB	0.057	1.4900	
46	22.276	59978	15767	VV	0.058	2.2065	
47	22.398	45545	12110	VV	0.057	1.6755	
48	22.553	86840	23014	VV	0.057	3.1947	
49	22.639	75726	21187	VV	0.054	2.7859	
50	22.815	39807	11684	VV	0.052	1.4644	
51	23.172	11378	3564	VB	0.049	0.4186	
52	23.509	3027	1383	BV	0.036	0.1113	
53	23.590	51277	15805	VV	0.050	1.8864	
54	23.689	19127	5606	VV	0.051	0.7037	
55	23.812	39274	10265	VV	0.057	1.4448	
56	23.927	168639	45821	VV	0.055	6.2041	
57	24.746	5802	1666	BB	0.056	0.2134	
58	24.985	35496	10059	BV	0.054	1.3059	
59	25.053	15368	5168	VV	0.050	0.5654	
60	25.128	25825	7227	VV	0.054	0.9501	
61	25.246	81816	21569	VV	0.058	3.0099	
62	25.493	3139	759	VB	0.062	0.1155	
63	26.052	3216	866	BB	0.058	0.1183	
64	26.699	61527	11698	PB	0.077	2.2635	
65	28.026	13853	3089	BB	0.070	0.5096	
66	29.372	316283	58978	BB	0.084	11.6357	

569996
(0)=473

Total area = 2718212

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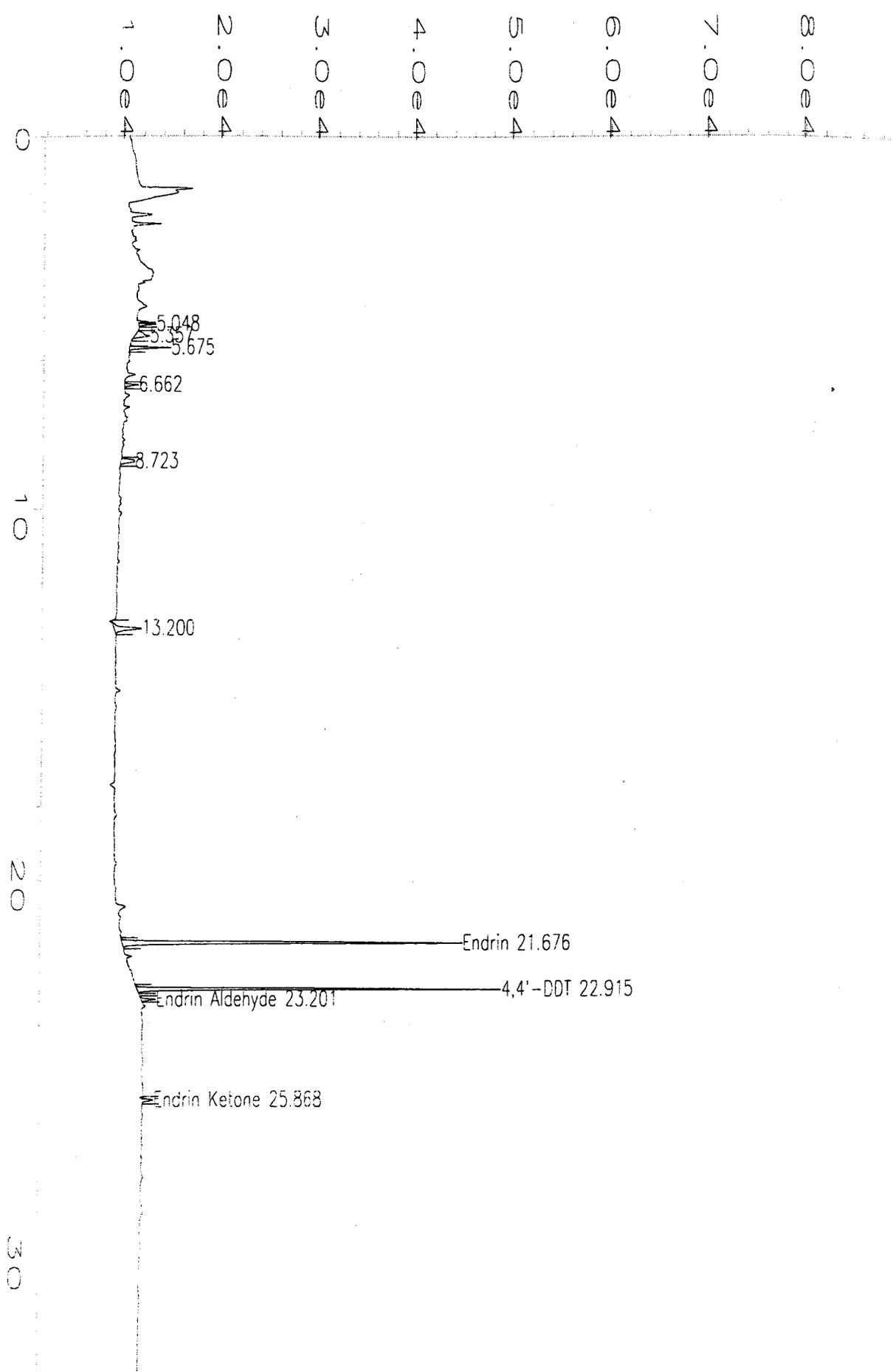
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=====
Data File Name   : G:\HPCHEM\2\DATA\000407\001F0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 1
Sample Name     : EVAL S111899C                       Injection Number: 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 07 Apr 00 01:14 PM                   Instrument Method: 8081.MTH
Report Created on: 07 Apr 00 03:27 PM                 Analysis Method : PST0407F.MTH
Last Recalib on : 30 MAR 00 03:57 PM                 Sample Amount   : 0
Multiplier     : 1                                     ISTD Amount     :
  
```

Sig. 1 in G:\HPCHEM\2\DATA\000407\001F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.238	* not found *			1		2,4,5,6-Tetrachloro-m-Xylene
9.195	* not found *			1		Alpha-BHC
10.680	* not found *			1		Gamma-BHC
10.870	* not found *			1		Beta-BHC
11.958	* not found *			1		Heptachlor
12.384	* not found *			1		Delta-BHC
13.511	* not found *			1		Aldrin
16.330	* not found *			1		Heptachlor Epoxide
17.110	* not found *			1		Gamma Chlordane
18.000	* not found *			1		Alpha Chlordane
18.193	* not found *			1		Endosulfan I
19.482	* not found *			1		4,4'-DDE
20.080	* not found *			1		Dieldrin
21.676	127324	BB	0.056	1	54.439	Endrin
21.961	* not found *			1		4,4'-DDD
22.200	* not found *			1		Endosulfan II
22.915	106677	BB	0.043	1	53.496	4,4'-DDT
23.201	4512	BV	0.047	1	1.587	Endrin Aldehyde
23.543	* not found *			1		Endosulfan Sulfate
25.296	* not found *			1		Methoxychlor
25.868	3240	BB	0.049	1	1.172	Endrin Ketone
30.145	* not found *			1		Decachlorobiphenyl

Not all calibrated peaks were found



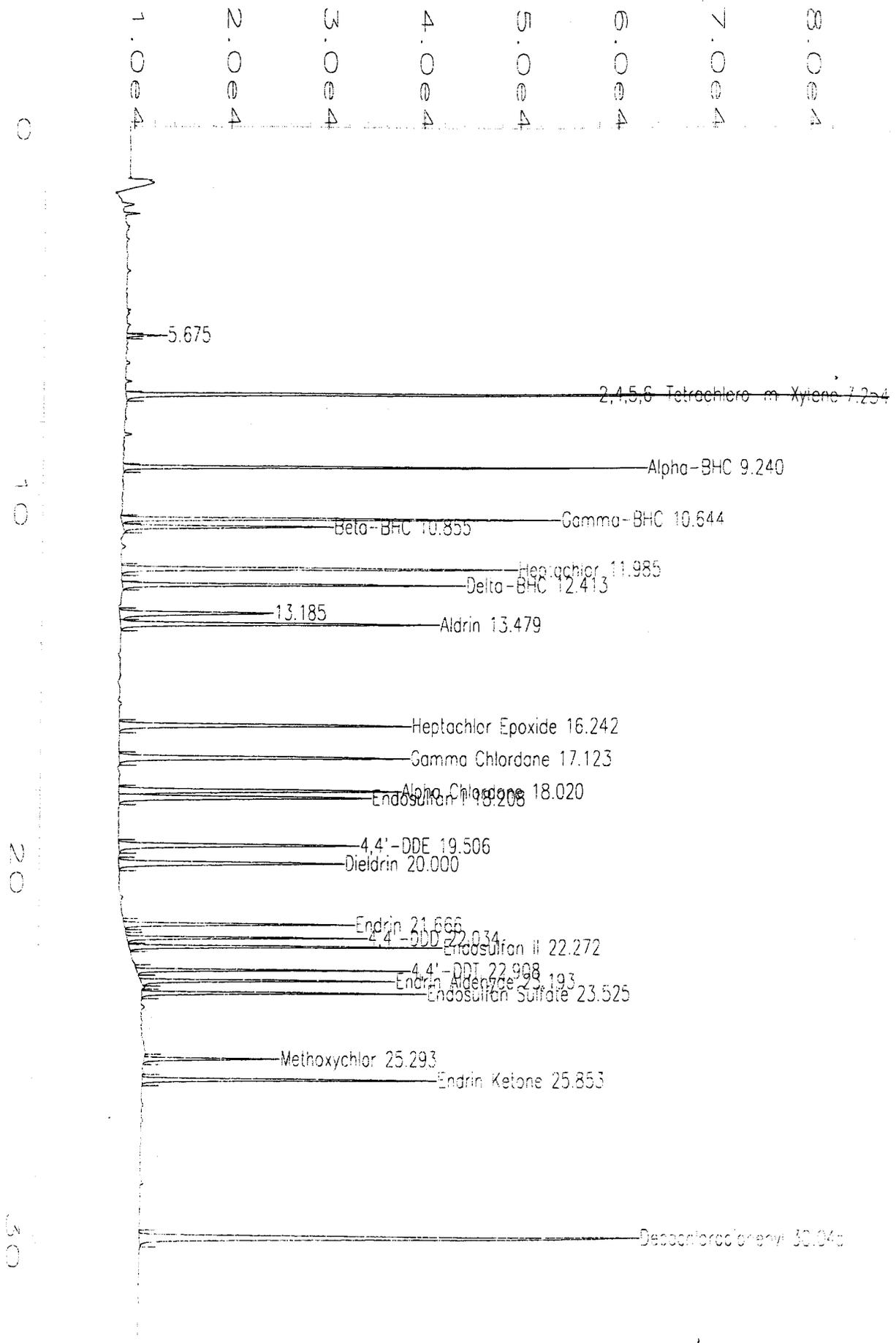
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Data File Name   : G:\HPCHEM\2\DATA\000407\002F0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 2
Sample Name     : PEST-40 S112299D                   Injection Number: 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 07 Apr 00 01:51 PM                  Instrument Method: 8081.MTH
Report Created on: 10 Apr 00 10:58 AM                 Analysis Method  : PST0407F.MTH
Last Recalib on : 30 MAR 00 03:57 PM                 Sample Amount   : 0
Multiplier     : 1                                    ISTD Amount     :
  
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Sig. 1 in G:\HPCHEM\2\DATA\000407\002F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.254	257250	BB	0.045	1	86.647	2,4,5,6-Tetrachloro-m-Xylene
9.240	164972	BB	0.047	1	41.659	Alpha-BHC
10.644	158229	BV	0.054	1	42.445	Gamma-BHC
10.855	84502	VB	0.059	1	40.734	Beta-BHC
11.985	172174	BB	0.065	1	41.654	Heptachlor
12.413	129585	MM	0.061	1	41.760	Delta-BHC
13.479	147720	VB	0.069	1	42.442	Aldrin
16.242	151002	BB	0.077	1	41.328	Heptachlor Epoxide
17.123	153093	BB	0.079	1	39.975	Gamma Chlordane
18.020	152542	BV	0.081	1	41.135	Alpha Chlordane
18.208	139883	VB	0.083	1	39.895	Endosulfan I
✓19.506	129623	BB	0.080	1	39.860	4,4'-DDE
20.000	127170	BB	0.085	1	40.060	Dieldrin
21.666	87807	BB	0.057	1	38.854	Endrin
22.034	77709	BB	0.048	1	39.688	4,4'-DDD
22.272	109208	BB	0.052	1	39.327	Endosulfan II
22.908	81786	BB	0.044	1	41.718	4,4'-DDT
23.193	86401	BV	0.050	1	36.841	Endrin Aldehyde
23.525	93693	BB	0.049	1	40.384	Endosulfan Sulfate
25.293	48436	BB	0.054	1	41.314	Methoxychlor
25.853	113488	BB	0.058	1	39.276	Endrin Ketone
30.045	292001	BB	0.088	1	81.566	Decachlorobiphenyl

User Modified



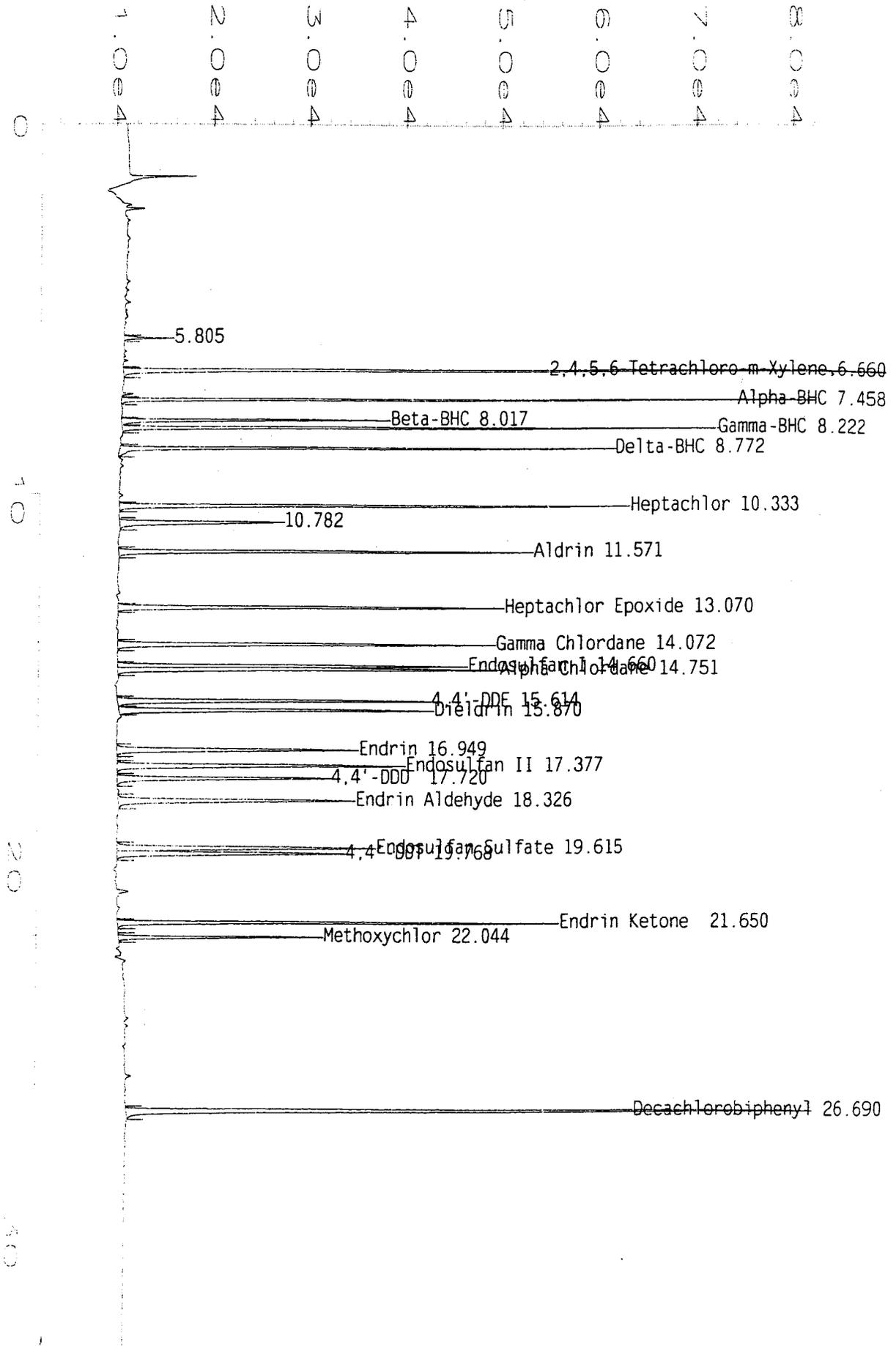
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Data File Name   : G:\HPCHEM\2\DATA\000407\002R0101.D
Operator        : GC-17                               Page Number     : 1
Instrument       : GC 17 ECD                           Vial Number     : 2
Sample Name     : PEST-40 S112299D                    Injection Number: 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 07 Apr 00 01:51 PM                   Instrument Method: 8081.MTH
Report Created on: 10 Apr 00 09:44 AM                  Analysis Method : PST0407R.MTH
Last Recalib on : 30 MAR 00 04:30 PM                  Sample Amount   : 0
Multiplier     : 1                                     ISTD Amount     :
  
```

Sig. 2 in G:\HPCHEM\2\DATA\000407\002R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.660	269036	BB	0.040	1	90.848	2,4,5,6-Tetrachloro-m-Xylene
7.458	176222	BB	0.038	1	42.275	Alpha-BHC
8.017	87012	BV	0.047	1	41.600	Beta-BHC
8.222	167942	VB	0.042	1	41.915	Gamma-BHC
8.772	156912	BV	0.046	1	44.558	Delta-BHC
10.333	182067	BB	0.053	1	41.819	Heptachlor
11.571	155997	BB	0.056	1	43.405	Aldrin
13.070	161111	BB	0.063	1	37.590	Heptachlor Epoxide
14.072	166548	BB	0.066	1	42.587	Gamma Chlordane
14.660	149930	BV	0.062	1	42.585	Endosulfan I
14.751	178988	VB	0.068	1	42.716	Alpha Chlordane
15.614	145857	BV	0.069	1	42.490	4,4'-DDE
15.870	144424	VB	0.068	1	41.540	Dieldrin
16.949	119340	BB	0.074	1	41.533	Endrin
17.377	146702	BB	0.077	1	42.140	Endosulfan II
17.720	104247	BB	0.073	1	42.097	4,4'-DDD
18.326	128388	BB	0.082	1	41.664	Endrin Aldehyde
19.615	139493	BV	0.081	1	45.239	Endosulfan Sulfate
19.768	119468	VB	0.079	1	45.101	4,4'-DDT
21.650	158357	BB	0.054	1	42.137	Endrin Ketone
22.044	67208	BB	0.049	1	44.133	Methoxychlor
26.690	305587	BB	0.066	1	87.970	Decachlorobiphenyl



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Data File Name   : G:\HPCHEM\2\DATA\000407\003F0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : PCB-500 S011199B
Run Time Bar Code:
Acquired on    : 07 Apr 00 02:35 PM
Report Created on: 07 Apr 00 03:26 PM

Page Number     : 1
Vial Number     : 3
Injection Number: 1
Sequence Line  : 1
Instrument Method: 8081.MTH
Analysis Method : PCB.MTH
    
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Sig. 1 in G:\HPCHEM\2\DATA\000407\003F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.699	14073	5380	BB	0.040	0.5100
2	7.286	301022	100890	BB	0.045	10.9082
3	8.449	6368	1736	VB	0.054	0.2308
4	8.923	7250	1949	BV	0.057	0.2627
5	9.137	<u>35759</u>	9255	PV	0.059	1.2958
6	10.362	5670	1280	BB	0.066	0.2055
7	10.595	<u>79996</u>	14528	BB	0.087	2.8988
8	11.025	3716	1071	BV	0.056	0.1347
9	11.445	21938	5351	VV	0.063	0.7950
10	11.540	15089	3344	VV	0.067	0.5468
11	11.701	7122	1917	VV	0.056	0.2581
12	11.794	30683	6795	VV	0.069	1.1119
13	11.999	62522	15683	VV	0.061	2.2656
14	12.082	<u>110215</u>	20258	VB	0.079	3.9939
15	12.784	<u>52096</u>	10687	BV	0.075	1.8878
16	12.907	7232	1731	VV	0.064	0.2621
17	13.268	6849	1553	BV	0.069	0.2482
18	13.427	79971	11653	VV	0.109	2.8979
19	13.686	<u>37704</u>	7373	VV	0.078	1.3663
20	13.833	18028	3461	VV	0.078	0.6533
21	14.022	29308	3557	VB	0.113	1.0620
22	15.058	<u>60168</u>	9543	BV	0.093	2.1803
23	15.282	21497	3885	VV	0.084	0.7790
24	15.578	14008	2912	VV	0.075	0.5076
25	15.707	<u>26492</u>	5092	VB	0.080	0.9600
26	15.994	7027	1620	BV	0.070	0.2546
27	16.392	9205	1670	BB	0.085	0.3336
28	16.771	15557	2420	BB	0.101	0.5638
29	17.182	39595	6391	BV	0.093	1.4348
30	17.496	38913	6616	VB	0.091	1.4101
31	19.915	7475	1330	BB	0.088	0.2709
32	20.481	<u>66667</u>	10387	BV	0.103	2.4158
33	20.758	9497	2345	PV	0.062	0.3441
34	20.848	16634	3705	VV	0.067	0.6028
35	20.946	18746	4026	VV	0.070	0.6793
36	21.047	9858	2221	VV	0.067	0.3572

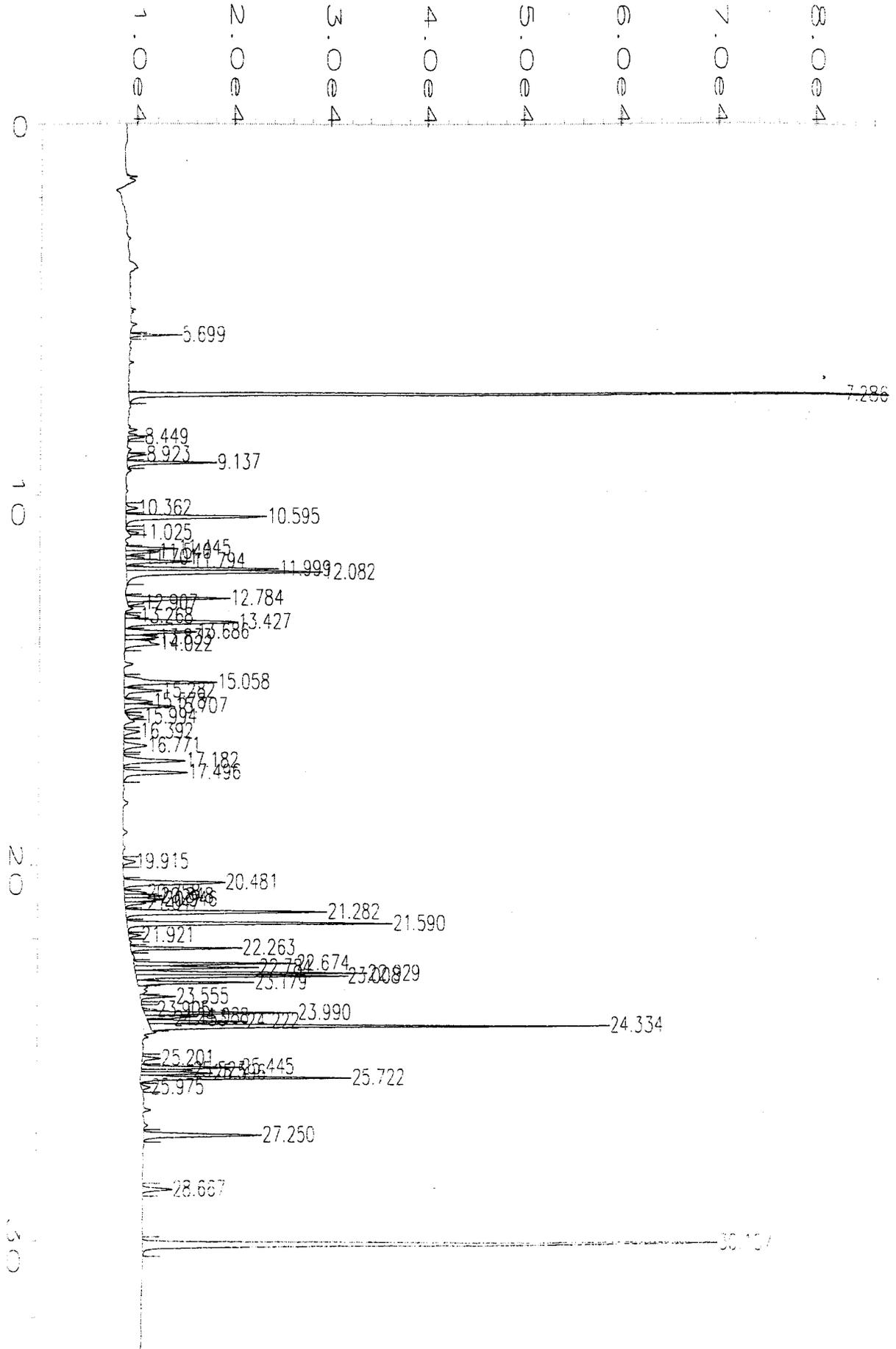
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568833
(C) = 472

38	21.590	111623	27401	PB	0.063	4.0449 ¹³⁵
39	21.921	4810	1332	BV	0.057	0.1743
40	22.263	39352	11495	BV	0.053	1.4260
41	22.674	58362	16692	VV	0.053	2.1149
42	22.784	46010	12791	VV	0.054	1.6673
43	22.929	85800	23979	VV	0.054	3.1092
44	23.008	76635	21849	VV	0.052	2.7770
45	23.179	41572	12000	VV	0.053	1.5064
46	23.555	12216	3588	VB	0.052	0.4427
47	23.905	3244	1344	BV	0.040	0.1176
48	23.990	52840	15735	VV	0.052	1.9148
49	24.088	19668	5111	VV	0.057	0.7127
50	24.153	5056	2674	VV	0.032	0.1832
51	24.222	35490	10136	VV	0.054	1.2861
52	24.334	176456	47426	VV	0.056	6.3943
53	25.201	8332	1870	BV	0.067	0.3019
54	25.445	38521	10265	VV	0.057	1.3959
55	25.523	16258	5217	VV	0.046	0.5891
56	25.596	28286	7352	VV	0.058	1.0250
57	25.722	87947	21772	VV	0.062	3.1870
58	25.975	4536	905	PB	0.073	0.1644
59	27.250	63416	12125	BB	0.080	2.2980
60	28.667	14515	3015	BB	0.075	0.5260
61	30.107	333065	59278	BB	0.087	12.0693

Total area = 2759601

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=====
Data File Name      : G:\HPCHEM\2\DATA\0004010\001F0101.D
Operator           : GC-17                               Page Number      : 1
Instrument         : GC 17 ECD                           Vial Number     : 1
Sample Name       : EVAL S111899C                       Injection Number : 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on       : 10 Apr 00 12:34 PM                   Instrument Method: 8081.MTH
Report Created on : 11 Apr 00 10:04 AM                   Analysis Method  : PST0410F.MTH
Last Recalib on  : 30 MAR 00 03:57 PM                   Sample Amount   : 0
Multiplier        : 1                                    ISTD Amount     :
  
```

Sig. 1 in G:\HPCHEM\2\DATA\0004010\001F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.238	* not found	*		1		2,4,5,6-Tetrachloro-m-Xylene
9.195	* not found	*		1		Alpha-BHC
10.680	* not found	*		1		Gamma-BHC
10.870	* not found	*		1		Beta-BHC
11.958	* not found	*		1		Heptachlor
12.384	* not found	*		1		Delta-BHC
13.511	* not found	*		1		Aldrin
16.330	* not found	*		1		Heptachlor Epoxide
17.110	* not found	*		1		Gamma Chlordane
18.000	* not found	*		1		Alpha Chlordane
19.193	* not found	*		1		Endosulfan I
19.482	* not found	*		1		4,4'-DDE
20.080	* not found	*		1		Dieldrin
21.768	113816	BB	0.055	1	49.112	Endrin
21.961	* not found	*		1		4,4'-DDD
22.200	* not found	*		1		Endosulfan II
22.828	* not found	*		1		4,4'-DDT
22.974	96291	BB	0.043	1	41.420	Endrin Aldehyde
23.543	* not found	*		1		Endosulfan Sulfate
25.296	* not found	*		1		Methoxychlor
25.925	4700	BB	0.055	1	1.700	Endrin Ketone
29.974	* not found	*		1		Decachlorobiphenyl

Not all calibrated peaks were found

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=====
Data File Name   : G:\HPCHEM\2\DATA\0004010\002F0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 2
Sample Name     : PEST-40 S112299D                   Injection Number: 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 10 Apr 00  01:09 PM                 Instrument Method: 8081.MTH
Report Created on: 11 Apr 00  10:04 AM                Analysis Method  : PST0410F.MTH
Last Recalib on : 30 MAR 00  03:57 PM                Sample Amount   : 0
Multiplier     : 1                                    ISTD Amount     :
  
```

Sig. 1 in G:\HPCHEM\2\DATA\0004010\002F0101.D

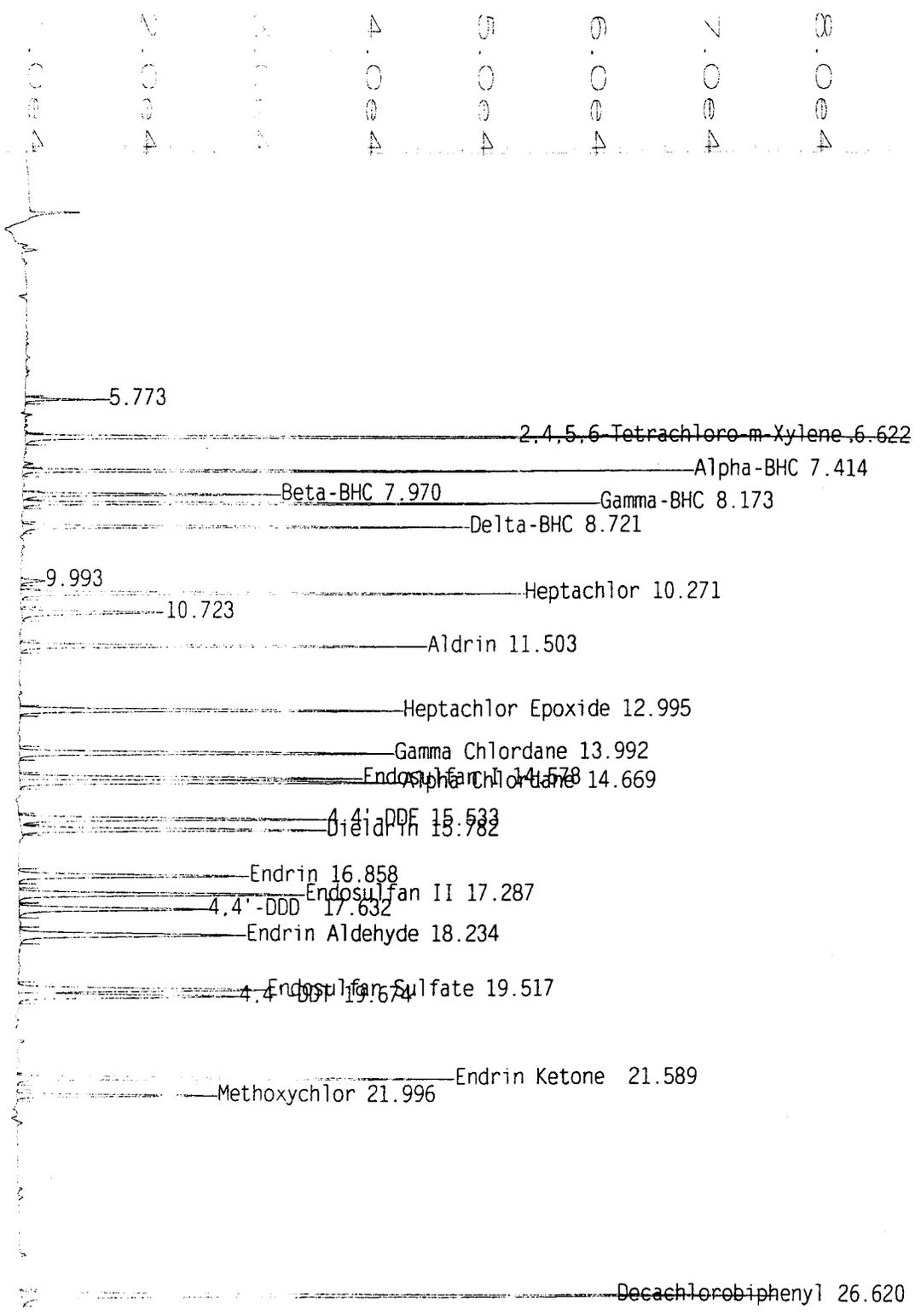
Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.236	235013	BB	0.045	1	78.621	2,4,5,6-Tetrachloro-m-Xylene
9.214	143210	BB	0.047	1	36.729	Alpha-BHC
10.613	138928	BV	0.053	1	37.749	Gamma-BHC
10.826	78620	VB	0.061	1	37.949	Beta-BHC
11.950	155370	BB	0.065	1	37.634	Heptachlor
12.381	113809	BB	0.060	1	37.382	Delta-BHC
13.441	132633	VB	0.069	1	38.223	Aldrin
16.200	138090	BB	0.078	1	37.825	Heptachlor Epoxide
17.077	143235	BB	0.080	1	37.390	Gamma Chlordane
17.970	139378	BV	0.082	1	37.659	Alpha Chlordane
18.157	126715	VB	0.085	1	36.246	Endosulfan I
19.452	118918	BB	0.081	1	36.710	4,4'-DDE
19.940	115948	BB	0.086	1	36.685	Dieldrin
21.626	79697	BB	0.057	1	35.655	Endrin
22.000	69684	BV	0.048	1	35.892	4,4'-DDD
22.236	104490	VB	0.052	1	37.637	Endosulfan II
22.877	77072	BB	0.045	1	39.488	4,4'-DDT
23.159	85394	BV	0.051	1	36.375	Endrin Aldehyde
23.491	90031	VB	0.050	1	38.799	Endosulfan Sulfate
25.253	44031	BB	0.053	1	37.565	Methoxychlor
25.806	108442	BB	0.058	1	37.556	Endrin Ketone
29.974	276983	BB	0.089	1	76.875	Decachlorobiphenyl


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Data File Name      : G:\HPCHEM\2\DATA\0004010\002R0101.D
Operator           : GC-17                               Page Number      : 1
Instrument         : GC 17 ECD                           Vial Number     : 2
Sample Name       : PEST-40 S112299D                     Injection Number : 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on       : 10 Apr 00  01:09 PM                  Instrument Method: 8081.MTH
Report Created on : 11 Apr 00  10:04 AM                  Analysis Method  : PST0410R.MTH
Last Recalib on  : 30 MAR 00  04:30 PM                  Sample Amount   : 0
Multiplier        : 1                                    ISTD Amount     :
  
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Sig. 2 in G:\HPCHEM\2\DATA\0004010\002R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.622	239406	BB	0.042	1	79.959	2,4,5,6-Tetrachloro-m-Xylene
7.414	144604	BB	0.038	1	35.149	Alpha-BHC
7.970	72103	BV	0.048	1	34.432	Beta-BHC
8.173	137695	VB	0.042	1	34.809	Gamma-BHC
8.721	117002	BB	0.045	1	34.207	Delta-BHC
10.271	155704	BB	0.054	1	35.685	Heptachlor
11.503	130791	BB	0.056	1	36.437	Aldrin
12.995	136445	BB	0.062	1	32.280	Heptachlor Epoxide
13.992	142984	BB	0.066	1	36.531	Gamma Chlordane
14.578	126117	BV	0.063	1	35.734	Endosulfan I
14.669	153576	VB	0.068	1	36.692	Alpha Chlordane
15.533	122547	BV	0.069	1	35.837	4,4'-DDE
15.782	120690	VB	0.069	1	34.864	Dieldrin
16.858	95605	BB	0.072	1	33.890	Endrin
17.287	122278	BB	0.075	1	35.054	Endosulfan II
17.632	81462	BB	0.075	1	33.320	4,4'-DDD
18.234	107032	BB	0.083	1	34.270	Endrin Aldehyde
19.517	114254	BV	0.081	1	36.933	Endosulfan Sulfate
19.674	97839	VB	0.077	1	37.470	4,4'-DDT
21.589	138336	BB	0.056	1	36.681	Endrin Ketone
21.996	56691	BB	0.049	1	37.139	Methoxychlor
26.620	295451	BB	0.068	1	84.731	Decachlorobiphenyl



010 020 030 040 050 060 070 080 090 100 110 120 130 140 150 160 170 180 190 200

Area Percent Report

```

Data File Name   : G:\HPCHEM\2\DATA\0004010\003F0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : PCB-500 S011199B
Run Time Bar Code:
Acquired on    : 10 Apr 00 01:46 PM
Report Created on: 10 Apr 00 05:55 PM

Page Number     : 1
Vial Number     : 3
Injection Number: 1
Sequence Line   : 1
Instrument Method: 8081.MTH
Analysis Method : PCB.MTH

```

Sig. 1 in G:\HPCHEM\2\DATA\0004010\003F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.650	19287	6857	BV	0.042	0.6913
2	6.012	2237	819	BB	0.042	0.0802
3	7.220	288820	95131	BV	0.046	10.3519
4	8.170	3526	962	VV	0.056	0.1264
5	8.309	2609	928	VV	0.042	0.0935
6	8.371	6461	1638	VB	0.058	0.2316
7	8.838	7416	1846	BV	0.060	0.2658
8	9.051	33539	8297	PV	0.061	1.2021
9	10.259	5474	1286	BV	0.064	0.1962
10	10.491	78440	13990	PB	0.088	2.8115
11	10.916	3308	983	BV	0.055	0.1186
12	11.337	25846	5884	VV	0.067	0.9264
13	11.430	15135	3188	VV	0.070	0.5425
14	11.677	37752	6570	VV	0.084	1.3531
15	11.887	56659	14027	VV	0.062	2.0308
16	11.970	111936	18366	VB	0.087	4.0120
17	12.665	51054	9877	BV	0.079	1.8299
18	12.782	9036	1988	VV	0.076	0.3239
19	12.930	7045	1448	VV	0.074	0.2525
20	13.145	7243	1618	VV	0.069	0.2596
21	13.301	76875	11193	VV	0.108	2.7554
22	13.558	36667	6979	VV	0.080	1.3142
23	13.703	17591	3328	VV	0.078	0.6305
24	13.815	10717	2663	VV	0.067	0.3841
25	13.890	18660	3457	VB	0.080	0.6688
26	14.420	4382	912	BB	0.075	0.1571
27	14.918	57100	9167	BV	0.092	2.0466
28	15.141	21986	3738	VV	0.089	0.7880
29	15.435	14162	2823	VV	0.077	0.5076
30	15.563	26727	4869	VV	0.083	0.9580
31	15.848	10871	1980	VV	0.083	0.3897
32	15.973	5553	989	VB	0.084	0.1990
33	16.251	8692	1501	BB	0.089	0.3115
34	16.623	15554	2416	BV	0.100	0.5575
35	17.028	39096	6232	VV	0.095	1.4013
36	17.341	40993	6735	VB	0.093	1.4693

395463

10:491

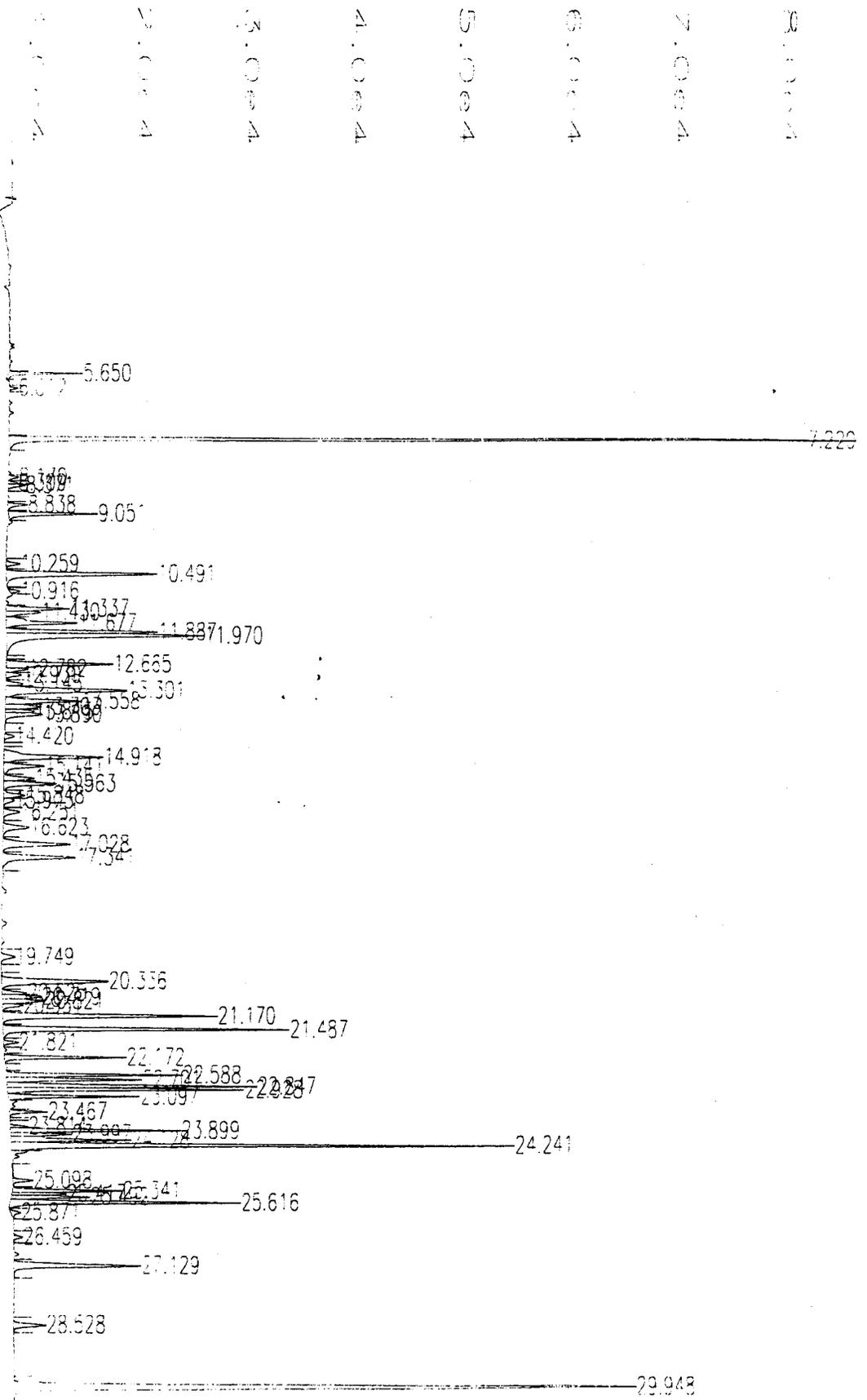
596899

(c)-473

37	19.749	7330	1288	BB	0.091	0.2827
38	20.336	66992	9856	BV	0.108	2.4011 ¹⁴³
39	20.625	9871	2306	VV	0.065	0.3538
40	20.719	17006	3624	VV	0.070	0.6095
41	20.821	19058	3928	VV	0.073	0.6831
42	20.931	9264	1934	VV	0.072	0.3320
43	21.170	102097	19954	VV	0.078	3.6594
44	21.487	113010	26631	VV	0.065	4.0505
45	21.821	5329	1391	VV	0.059	0.1910
46	22.172	39811	11282	PV	0.054	1.4269
47	22.588	59143	16468	VV	0.055	2.1198
48	22.701	46252	12564	VV	0.056	1.6578
49	22.847	85080	23282	VV	0.055	3.0494
50	22.928	77881	22082	VV	0.053	2.7914
51	23.097	40878	12210	VV	0.051	1.4652
52	23.467	11619	3533	VB	0.051	0.4164
53	23.814	4538	1643	BV	0.046	0.1627
54	23.899	55492	15837	VV	0.054	1.9890
55	23.997	22024	5673	VV	0.057	0.7894
56	24.128	46261	11165	VV	0.061	1.6581
57	24.241	184117	46807	VV	0.058	6.5991
58	25.098	8593	1863	PB	0.068	0.3080
59	25.341	37209	10202	BV	0.056	1.3337
60	25.417	15923	5077	VV	0.046	0.5707
61	25.492	27870	7283	VV	0.058	0.9989
62	25.616	87629	21455	VV	0.063	3.1408
63	25.871	5033	950	PB	0.077	0.1804
64	26.459	3462	866	BB	0.063	0.1241
65	27.129	62558	11781	PB	0.080	2.2422
66	28.528	14184	2989	BB	0.074	0.5084
67	29.948	326050	57962	BB	0.087	11.6863

Total area = 2790015

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Instrument Run Log

Geomatrix Consultants

INSTRUMENT LOGBOOK

CalScience Environmental Laboratories, Inc.

Date Loaded	Pos	Directory	Data File	CEL ID #	Mtx	Amount Loaded	pH	IS/SS	Lot #	Cal. Std.	By	Comments
03/27/00	29	000328	020F0101	102 PT 0327-7	MA	2ul	NA				TN	
03/29/00	30	0130	030	Eval					S117899C			
	31	031	031	Post-40					S112199D			
	32	032	032	-80						F		
	33	033	033	-60						E		
	34	034	034	-40						D		
	35	035	035	-20						C		
	36	036	036	-10						B		
	37	037	037	Post ICV					S12599B			
	38	038	038	PCB-2K					S110499A			
	39	039	039	-1K						B		
	40	040	040	-500					S110199A			
	41	041	041	-200					S110499C			
	42	042	042	-100						D		
	43	043	043	-ICV					S012100A			
	44	044	044	1221					S110199B			
	45	045	045	1232						C		
	46	046	046	1242						D		
	47	047	047	1243						E		
	48	048	048	1254						F		

INSTRUMENT LOGBOOK

Calscience Environmental Laboratories, Inc.

Date Loaded	Pos	Directory	Data File	CEL ID #	Mtx	Amount Loaded	pH <2	IS/SS	Lot #	Cal. Std.	By	Comments
03/29/00	49	000328	049F0101	1262	NA	2ul	NA		S1101996			
	50		050	child 100					S03000F			
	51		051	200								E
	52		052	500								D
	53		053	1K								C
	54		054	2K								B
	55		055	TOX 100								M
	56		056	2000								I
	57		057	3000								J
	58		058	500								K
	59		059	200								L
	60		060	chl 100								F
	61		061	child ICD								D
	62		062	Tox. ICD								O
	63		063	Eval					S111849C			
03/30/00	1	000330	001F0101	Eval								
	2		002	Real-40								
	3		003	PCB-500					S1122990			
	4		004	MB 0324-2					S110199A			
	5		005	ICS								

INSTRUMENT LOGBOOK

Calscience Environmental Laboratories, Inc.

Date Loaded	Pos	Directory	Data File	CEL ID #	Mtx	Amount Loaded	pH <2	IS/SS	Lot #	Cal. Std.	By	Comments
04/05/00	19	000405	019E0101	03-1140-5	NA	2ul	NA				TN	
	20		020	6-6								
	21		021	F-al					S11899C			
	22		022	Pent-40					S112249D			
	23		023	PCB-500					S110199A			
04/06/00	24		024	F-val					S11899C			
	25		025	Pent-40					S112249D			
	26		026	PC-500					S110199A			
	27		027	Mb 0401-3								
	28		028	ICS PF								
	29		029	ICS PF								
	30		030	Mb 0404-6								
	31		031	ICS PF								
	32		032	ICS PF								
	33		033	MS 1100-2								
	34		034	MSD								
	35		035	ICS PB 04101-3								
	36		036	ICS PB								
	37		037	ICS PB 04103-2								
	38		038	ICS PB								

INSTRUMENT LOGBOOK

CalScience Environmental Laboratories, Inc.

Date Loaded	Pos	Directory	Data File	CEL ID #	Mix	Amount Loaded	pH <2	IS/SS	Lot #	Cal. Std.	By	Comments
04/06/00	39	000405	039 F0101	03-1127-1	NA	2ml	NA				JW	
	40		040	03-1140-4								
	41		041	95x								
	42		042	7								
	43		043	5								
	44		044	Eval					S11099C			
	45		045	Pept-40					S112299D			
	46		046	PCB-500					S110199A			
04/07/00	1	000407	001 F0101	Eval					S11099C			
	2		002	Pept-40					S112299D			
	3		003	PCB-500					S110199A			
	4		004	ICS PB 0404-C								
	5		005	ICSD PB ↓								
	6		006	03-1139-14								
	7		007	M6 0407-3								
	8		008	ICS PT ↓								
	9		009	ICSD PT ↓								
	10		010	M5 1139-14								
	11		011	M5D ✓								
	12		012	ICS PA 0407-3								

INSTRUMENT LOGBOOK

Calscience Environmental Laboratories, Inc.

Date Loaded	Pos	Directory	Data File	CEL ID #	Mtx	Amount Loaded	pH	IS/SS	Lot #	Cal. Std.	By	Comments
4/07/00	13	000407	013F0101	ICSD PB 03407-3	N/A	2ul	0.6				TN	
	14		014	04-0202-1								
	15		015	04-0203-1								
	16		016	03-1139-12								
	17		017	↓ -13								
	18		018	03-1075-1								
	19		019	↓ -2								
	20		020	↓ -3								
	21		021	Eval						S111899L		
	22		022	Post-40						S112299D		
	23		023	PCB-500						S110199R		
6/00	1	000410	001F0101	Eval						S111899L		
	2		002	Post-40						S112299D		
	3		003	PCB-500						S110199R		
	4		004	M6 Over-2						S110199R		
	5		005	ICSDT Over-2								
	6		006	ICSDPT ↓								
	7		007	03-1075-4								
	8		008	03-1139-12								
	9		009	↓ -13								

Reviewed by _____ Date ____/____/____

INSTRUMENT LOGBOOK

CalScience Environmental Laboratories, Inc.

Date Loaded	Pos	Directory	Data File	CEL ID #	Mtx Loaded	Amount pH	ISISS	Lot #	Cal. Std.	By	Comments
	10	000410	010F0101	00-03-1075-S	n/A	n/A				TN	
	11		011	1173-1							
	12		012	↓ -2							
	13		013	↓ -3							
	14		014	1172-1							
	15		015								
	16		016	↓ -2							
	17		017	↓ -3							
	18		018	↓ -4							
	19		019	↓ -5							
	20		020	↓ -6							
	21		021	↓ -7							
	22		022	Eval					S11899C		
	23		023	Pent-40					S117199D		
				PcB-500					S1107199A		

Reviewed by _____ Date ____/____/____



Samples Raw Data

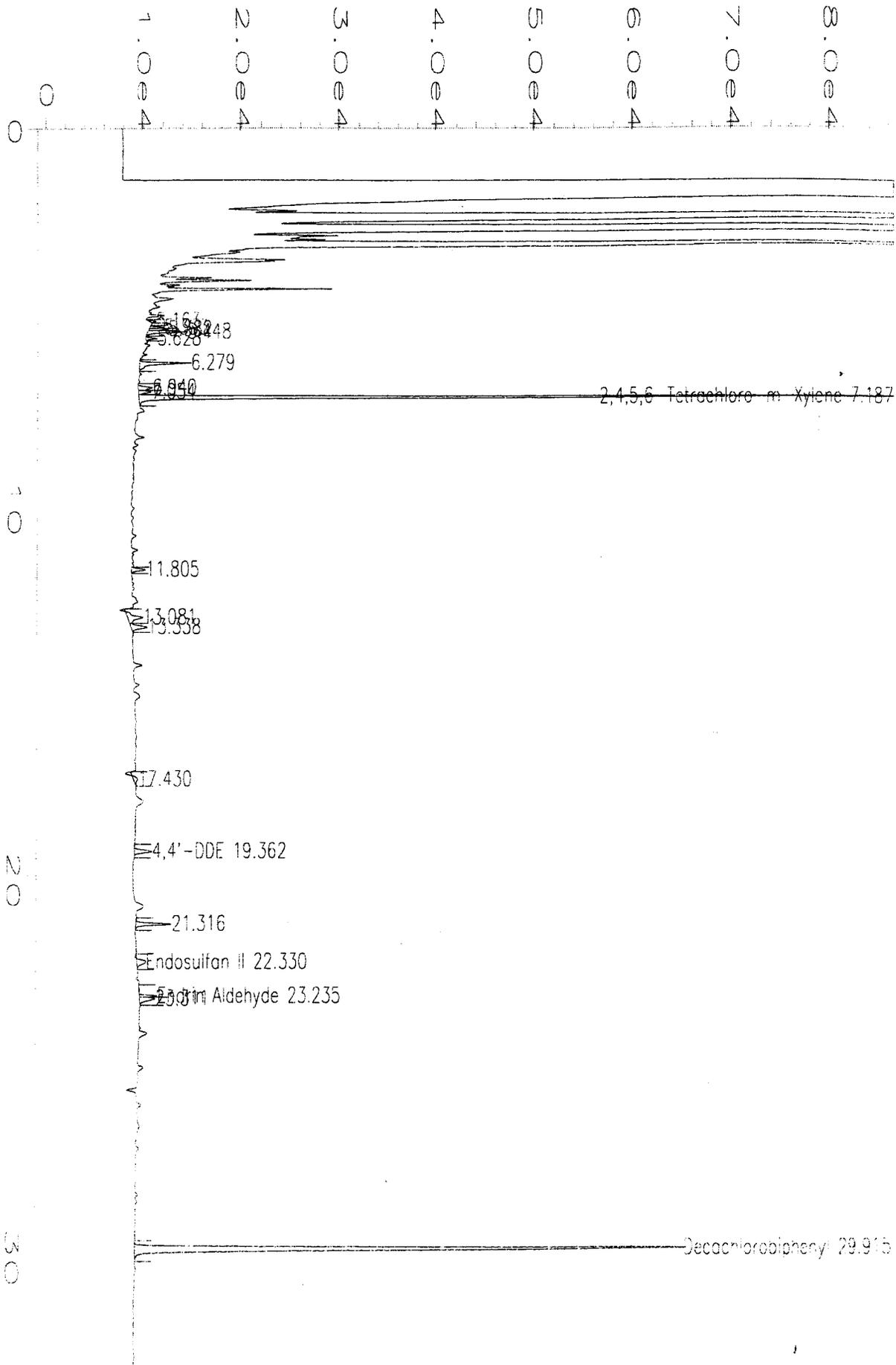
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Data File Name      : G:\HPCHEM\2\DATA\0004010\008F0101.D
Operator           : GC-17                               Page Number      : 1
Instrument         : GC 17 ECD                           Vial Number      : 8
Sample Name       : 00-03-1139-12 R                     Injection Number : 1
Run Time Bar Code:                                     Sequence Line    : 1
Acquired on       : 10 Apr 00  04:59 PM                 Instrument Method: 8081.MTH
Report Created on : 10 Apr 00  05:38 PM                 Analysis Method  : PST0410F.MTH
Last Recalib on  : 30 MAR 00  03:57 PM                 Sample Amount    : 0
Multiplier        : 1                                   ISTD Amount     :
  
```

Sig. 1 in G:\HPCHEM\2\DATA\0004010\008F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.187	278811	VB	0.045	1	94.430	2,4,5,6-Tetrachloro-m-Xylene
9.195	* not found *			1		Alpha-BHC
10.680	* not found *			1		Gamma-BHC
10.870	* not found *			1		Beta-BHC
11.958	* not found *			1		Heptachlor
12.384	* not found *			1		Delta-BHC
13.511	* not found *			1		Aldrin
16.330	* not found *			1		Heptachlor Epoxide
17.110	* not found *			1		Gamma Chlordane
18.000	* not found *			1		Alpha Chlordane
3.193	* not found *			1		Endosulfan I
19.362	9371	BB	0.083	1	3.327	4,4'-DDE (γ)
20.080	* not found *			1		Dieldrin
21.660	* not found *			1		Endrin
21.961	* not found *			1		4,4'-DDD
22.330	6978	BB	0.125	1	2.552	Endosulfan II (ε)
22.828	* not found *			1		4,4'-DDT
23.235	5496	BV	0.047	1	1.933	Endrin Aldehyde (ε)
23.543	* not found *			1		Endosulfan Sulfate
25.296	* not found *			1		Methoxychlor
25.863	* not found *			1		Endrin Ketone
29.915	315091	BB	0.088	1	88.777	Decachlorobiphenyl

Not all calibrated peaks were found



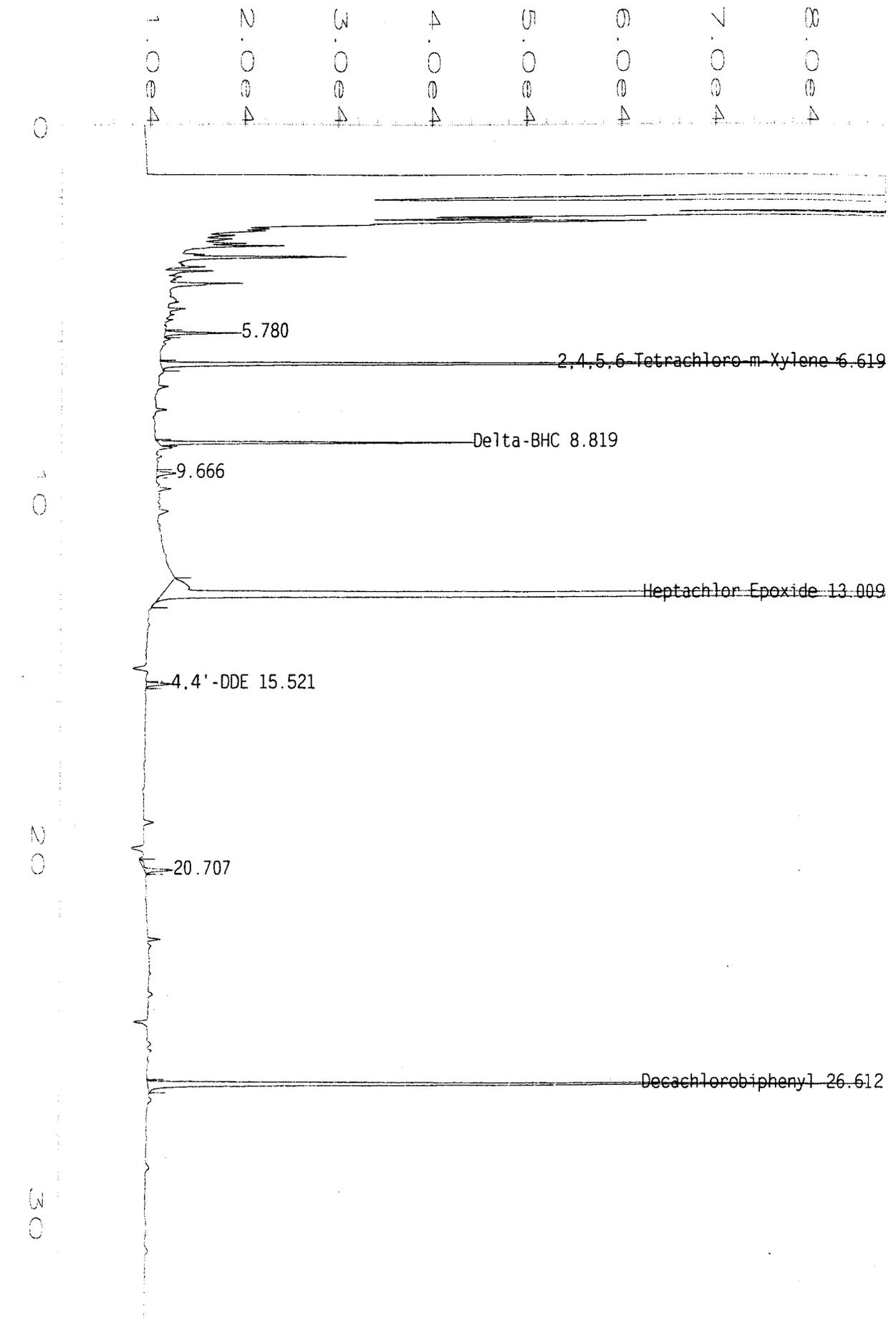
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Data File Name   : G:\HPCHEM\2\DATA\0004010\008R0101.D
Operator        : GC-17                               Page Number     : 1
Instrument       : GC 17 ECD                           Vial Number     : 8
Sample Name     : 00-03-1139-12 R                     Injection Number: 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 10 Apr 00 04:59 PM                   Instrument Method: 8081.MTH
Report Created on: 10 Apr 00 05:40 PM                 Analysis Method : PST0410R.MTH
Last Recalib on : 30 MAR 00 04:30 PM                 Sample Amount   : 0
Multiplier     : 1                                     ISTD Amount     :
  
```

Sig. 2 in G:\HPCHEM\2\DATA\0004010\008R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.619	290356	BB	0.042	1	98.683	2,4,5,6-Tetrachloro-m-Xylene
7.426	* not found *			1		Alpha-BHC
7.981	* not found *			1		Beta-BHC
8.187	* not found *			1		Gamma-BHC
8.819	101170	BV	0.046	1	30.101	Delta-BHC
10.489	* not found *			1		Heptachlor
11.722	* not found *			1		Aldrin
13.009	3552849	BB	0.074	1	767.705	Heptachlor Epoxide
14.216	* not found *			1		Gamma Chlordane
14.570	* not found *			1		Endosulfan I
15.650	* not found *			1		Alpha Chlordane
15.521	11423	BB	0.068	1	3.567	4,4'-DDE
15.712	* not found *			1		Dieldrin
16.988	* not found *			1		Endrin
17.465	* not found *			1		Endosulfan II
17.556	* not found *			1		4,4'-DDD
18.425	* not found *			1		Endrin Aldehyde
19.551	* not found *			1		Endosulfan Sulfate
19.700	* not found *			1		4,4'-DDT
21.608	* not found *			1		Endrin Ketone
22.007	* not found *			1		Methoxychlor
26.612	334115	BB	0.067	1	97.087	Decachlorobiphenyl

Not all calibrated peaks were found



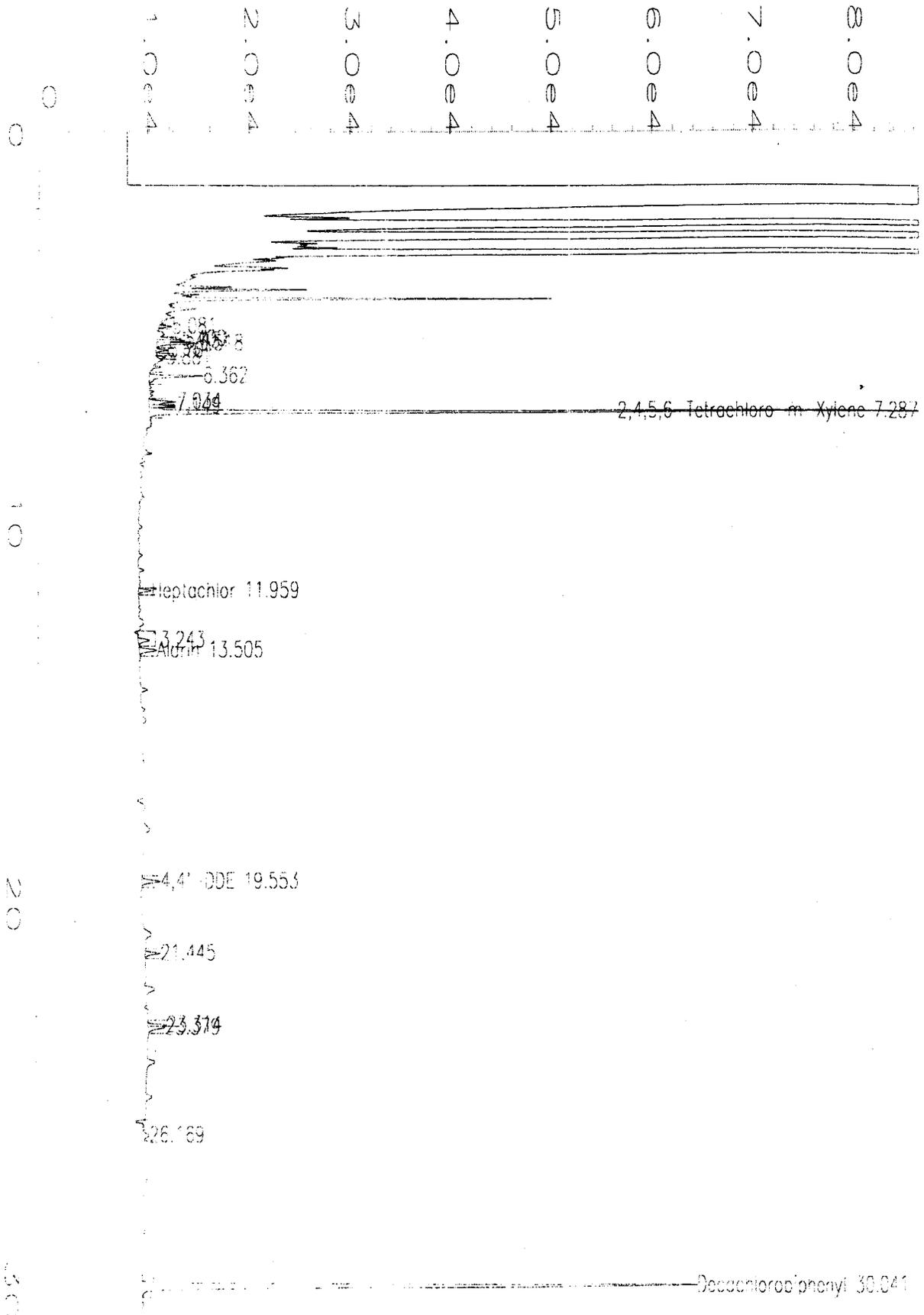
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Data File Name      : G:\HPCHEM\2\DATA\0004010\009F0101.D
Operator           : GC-17                               Page Number      : 1
Instrument         : GC 17 ECD                           Vial Number      : 9
Sample Name       : 00-03-1139-13 R                     Injection Number : 1
Run Time Bar Code:                                     Sequence Line    : 1
Acquired on      : 10 Apr 00 05:37 PM                   Instrument Method: 8081.MTH
Report Created on: 11 Apr 00 10:10 AM                   Analysis Method  : PST0410F.MTH
Last Recalib on  : 30 MAR 00 03:57 PM                   Sample Amount    : 0
Multiplier       : 1                                    ISTD Amount     :
  
```

Sig. 1 in G:\HPCHEM\2\DATA\0004010\009F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.287	279342	VV	0.046	1	94.622	2,4,5,6-Tetrachloro-m-Xylene
9.195	* not found *			1		Alpha-BHC
10.680	* not found *			1		Gamma-BHC
10.870	* not found *			1		Beta-BHC
11.959	5329	VB	0.066	1	1.337	Heptachlor(z)
12.384	* not found *			1		Delta-BHC
13.505	9473	BB	0.084	1	2.986	Aldrin (z)
16.330	* not found *			1		Heptachlor Epoxide
17.110	* not found *			1		Gamma Chlordane
18.000	* not found *			1		Alpha Chlordane
3.193	* not found *			1		Endosulfan I
9.553	9794	BB	0.084	1	3.477	4,4'-DDE (z)
20.080	* not found *			1		Dieldrin
21.660	* not found *			1		Endrin
21.961	* not found *			1		4,4'-DDD
22.200	* not found *			1		Endosulfan II
22.828	* not found *			1		4,4'-DDT
23.112	* not found *			1		Endrin Aldehyde
23.543	* not found *			1		Endosulfan Sulfate
25.296	* not found *			1		Methoxychlor
25.863	* not found *			1		Endrin Ketone
30.041	310796	BB	0.088	1	87.436	Decachlorobiphenyl

Not all calibrated peaks were found



```

=====
Data File Name   : G:\HPCHEM\2\DATA\0004010\009R0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 9
Sample Name     : 00-03-1139-13 R                    Injection Number: 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 10 Apr 00 05:37 PM                  Instrument Method: 8081.MTH
Report Created on: 11 Apr 00 10:10 AM                 Analysis Method : PST0410R.MTH
Last Recalib on : 30 MAR 00 04:30 PM                 Sample Amount   : 0
Multiplier     : 1                                    ISTD Amount    :
  
```

Sig. 2 in G:\HPCHEM\2\DATA\0004010\009R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.626	288890	BV	0.039	1	98.145	2,4,5,6-Tetrachloro-m-Xylene
7.426	* not found *			1		Alpha-BHC
7.981	* not found *			1		Beta-BHC
8.187	* not found *			1		Gamma-BHC
8.831	115893	BV	0.046	1	33.919	Delta-BHC
10.489	* not found *			1		Heptachlor
11.722	* not found *			1		Aldrin
13.028	3706376	BB	0.071	1	800.754	Heptachlor Epoxide
14.216	* not found *			1		Gamma Chlordane
14.570	* not found *			1		Endosulfan I
14.650	* not found *			1		Alpha Chlordane
15.546	14487	BB	0.068	1	4.523	4,4'-DDE
15.712	* not found *			1		Dieldrin
16.988	* not found *			1		Endrin
17.465	* not found *			1		Endosulfan II
17.556	* not found *			1		4,4'-DDD
18.425	* not found *			1		Endrin Aldehyde
19.551	* not found *			1		Endosulfan Sulfate
19.700	* not found *			1		4,4'-DDT
21.608	* not found *			1		Endrin Ketone
22.007	* not found *			1		Methoxychlor
26.630	321705	BB	0.065	1	93.121	Decachlorobiphenyl

Not all calibrated peaks were found

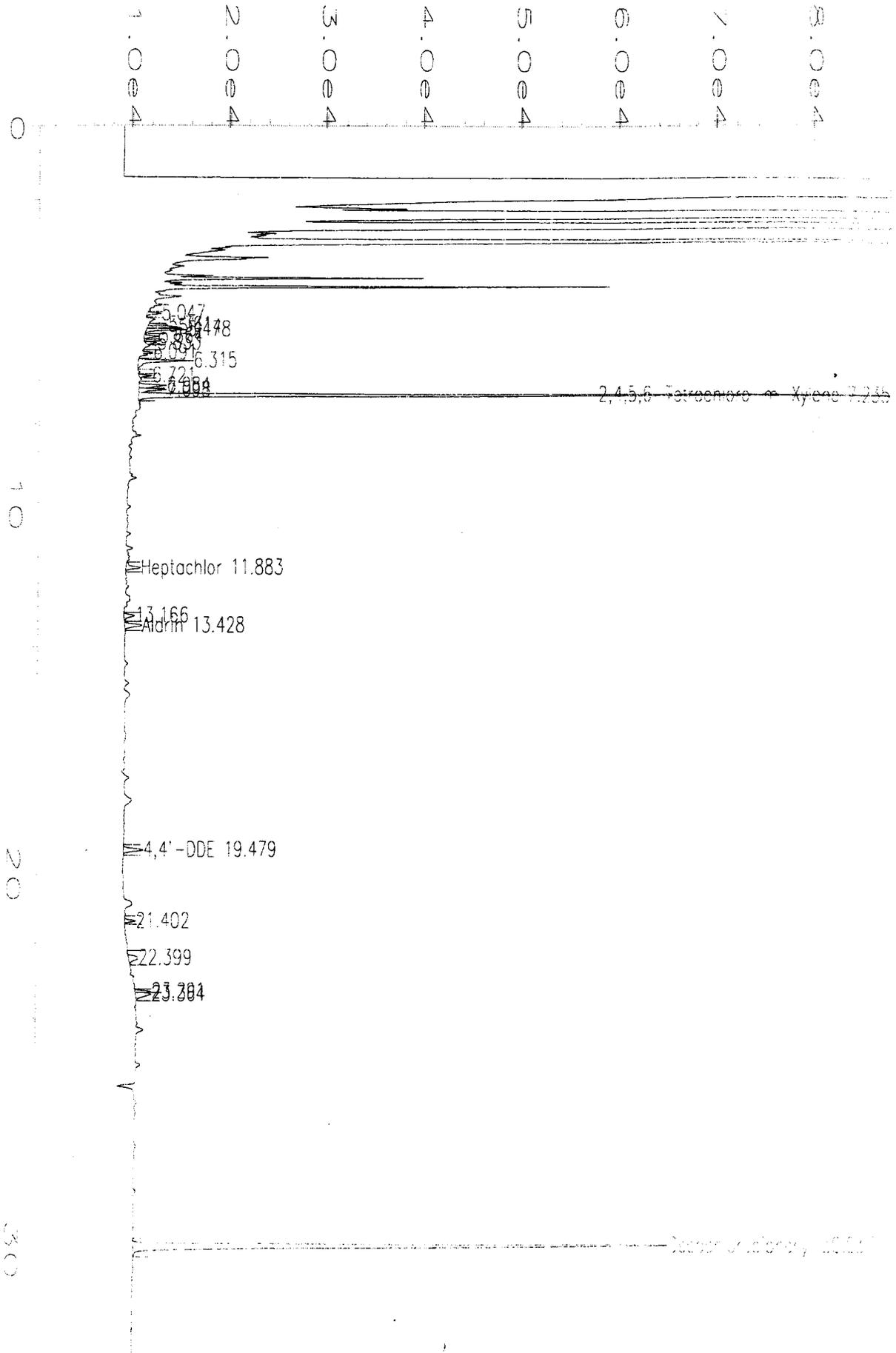

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=====
Data File Name      : G:\HPCHEM\2\DATA\000407\006F0101.D
Operator           : GC-17                               Page Number      : 1
Instrument         : GC 17 ECD                           Vial Number      : 6
Sample Name        : 03-0039-14                       Injection Number : 1
Run Time Bar Code : 039-14                          Sequence Line    : 1
Acquired on        : 07 Apr 00 04:24 PM                 Instrument Method: 8081.MTH
Report Created on  : 10 Apr 00 09:13 AM                 Analysis Method  : PST0407F.MTH
Last Recalib on   : 30 MAR 00 03:57 PM                 Sample Amount    : 0
Multiplier         : 1                                   ISTD Amount      :
  
```

Sig. 1 in G:\HPCHEM\2\DATA\000407\006F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.235	271502	VV	0.045	1	91.792	2,4,5,6-Tetrachloro-m-Xylene
9.195	* not found *			1		Alpha-BHC
10.680	* not found *			1		Gamma-BHC
10.870	* not found *			1		Beta-BHC
11.883	7680	BB	0.076	1	1.927	Heptachlor, 2,
12.384	* not found *			1		Delta-BHC
13.428	9350	BB	0.085	1	2.947	Aldrin (2)
16.330	* not found *			1		Heptachlor Epoxide
17.110	* not found *			1		Gamma Chlordane
18.000	* not found *			1		Alpha Chlordane
.193	* not found *			1		Endosulfan I
19.479	11013	BB	0.085	1	3.910	4,4'-DDE(2)
20.080	* not found *			1		Dieldrin
21.660	* not found *			1		Endrin
21.961	* not found *			1		4,4'-DDD
22.200	* not found *			1		Endosulfan II
22.828	* not found *			1		4,4'-DDT
23.112	* not found *			1		Endrin Aldehyde
23.543	* not found *			1		Endosulfan Sulfate
25.296	* not found *			1		Methoxychlor
25.863	* not found *			1		Endrin Ketone
30.037	306567	BB	0.087	1	86.115	Decachlorobiphenyl

Not all calibrated peaks were found



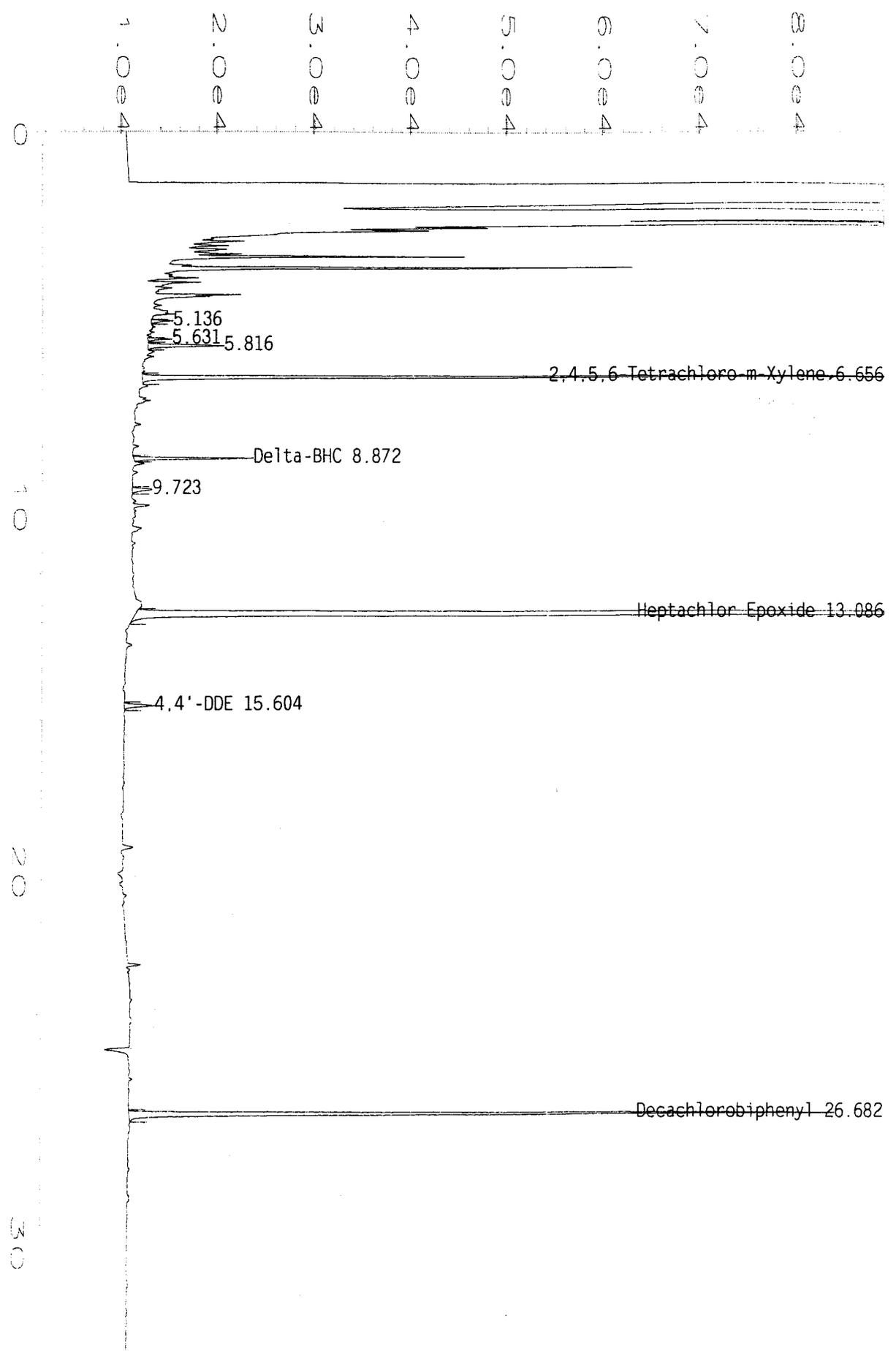
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=====
Data File Name   : G:\HPCHEM\2\DATA\000407\006R0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 6
Sample Name     : 03-0039-14                         Injection Number: 1
Run Time Bar Code:                                     Sequence Line   : 1
Acquired on    : 07 Apr 00 04:24 PM                 Instrument Method: 8081.MTH
Report Created on: 10 Apr 00 09:45 AM                Analysis Method  : PST0407R.MTH
Last Recalib on : 30 MAR 00 04:30 PM                Sample Amount   : 0
Multiplier     : 1                                    ISTD Amount     :
  
```

Sig. 2 in G:\HPCHEM\2\DATA\000407\006R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.656	285345	BV	0.041	1	96.842	2,4,5,6-Tetrachloro-m-Xylene
7.426	* not found *			1		Alpha-BHC
7.981	* not found *			1		Beta-BHC
8.387	* not found *			1		Gamma-BHC
8.872	37891	BV	0.047	1	13.688	Delta-BHC
10.489	* not found *			1		Heptachlor
11.722	* not found *			1		Aldrin
13.086	1681534	BB	0.071	1	364.881	Heptachlor Epoxide
14.216	* not found *			1		Gamma Chlordane
14.600	* not found *			1		Endosulfan I
14.750	* not found *			1		Alpha Chlordane
15.604	14148	BB	0.070	1	4.418	4,4'-DDE
15.912	* not found *			1		Dieldrin
16.988	* not found *			1		Endrin
17.465	* not found *			1		Endosulfan II
17.556	* not found *			1		4,4'-DDD
18.425	* not found *			1		Endrin Aldehyde
19.651	* not found *			1		Endosulfan Sulfate
19.800	* not found *			1		4,4'-DDT
21.608	* not found *			1		Endrin Ketone
22.007	* not found *			1		Methoxychlor
26.682	305625	BB	0.064	1	87.982	Decachlorobiphenyl

Not all calibrated peaks were found



1.000 4
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W 0 0 4
4 0 0 4
5.000 4
0 0 0 4
7.000 4
00 0 0 4



MS/MSD QC Data

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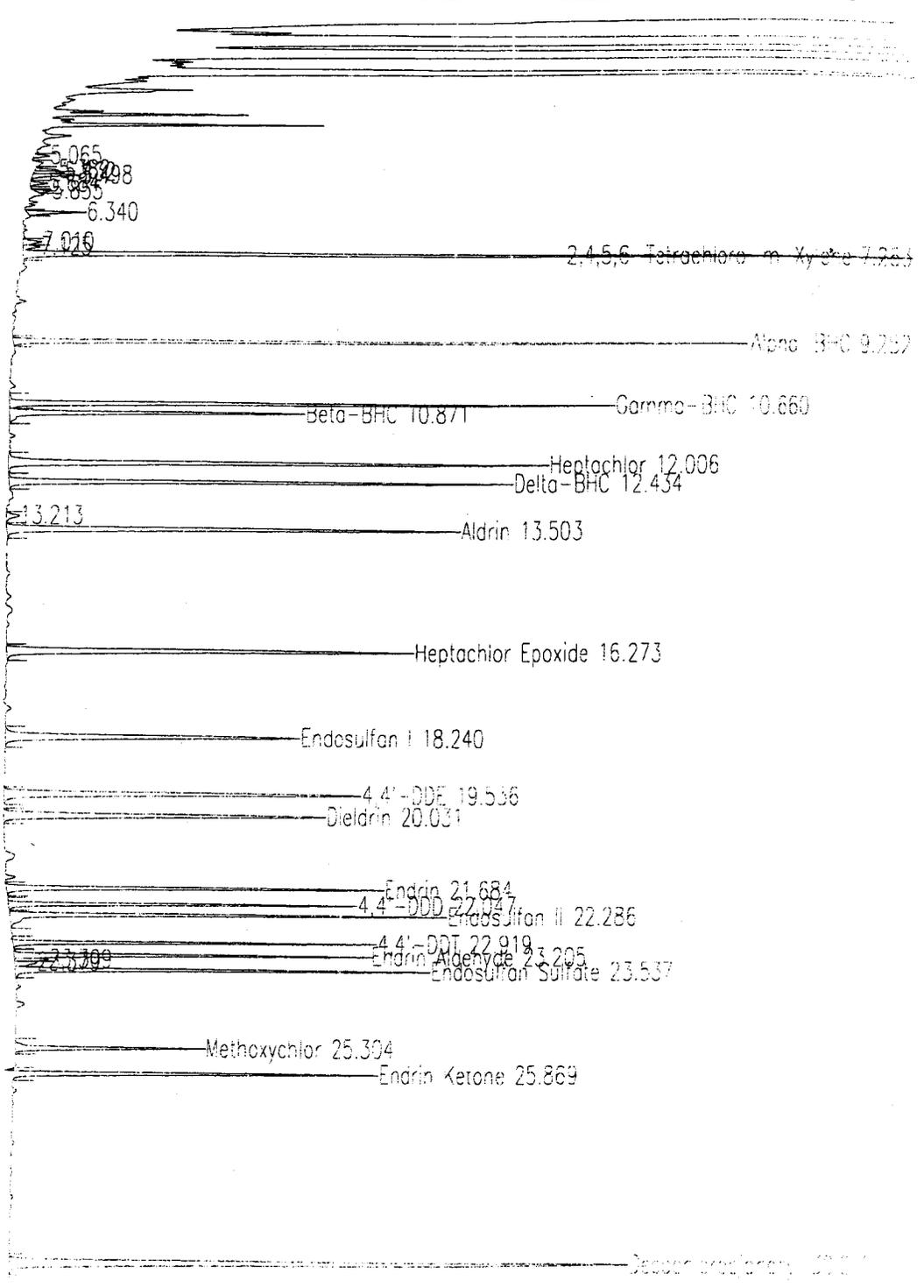
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Data File Name   : G:\HPCHEM\2\DATA\000407\010F0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 10
Sample Name     : MS 1139-14                         Injection Number: 1
Run Time Bar Code:                                   Sequence Line   : 1
Acquired on    : 07 Apr 00 06:53 PM                 Instrument Method: 8081.MTH
Report Created on: 10 Apr 00 09:14 AM              Analysis Method : PST0407F.MTH
Last Recalib on : 30 MAR 00 03:57 PM              Sample Amount   : 0
Multiplier     : 1                                    ISTD Amount     :
  
```

Sig. 1 in G:\HPCHEM\2\DATA\000407\010F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.263	278215	VV	0.045	1	94.215	2,4,5,6-Tetrachloro-m-Xylene
9.252	195853	BV	0.047	1	48.655	Alpha-BHC
10.660	184427	BV	0.054	1	48.819	Gamma-BHC
10.871	102795	VB	0.061	1	49.396	Beta-BHC
12.006	202387	BB	0.066	1	48.881	Heptachlor
12.434	166694	BV	0.059	1	52.057	Delta-BHC
13.503	177046	BB	0.070	1	50.644	Aldrin
16.273	178352	BB	0.079	1	48.749	Heptachlor Epoxide
17.110	* not found *			1		Gamma Chlordane
18.000	* not found *			1		Alpha Chlordane
18.240	143395	BB	0.087	1	40.868	Endosulfan I
9.536	162078	BB	0.081	1	49.413	4,4'-DDE
20.031	150866	BB	0.084	1	47.187	Dieldrin
21.684	119266	BB	0.056	1	51.261	Endrin
22.047	94317	BV	0.048	1	47.543	4,4'-DDD
22.286	135740	VB	0.055	1	48.831	Endosulfan II
22.919	89602	BB	0.044	1	45.417	4,4'-DDT
23.205	100902	BV	0.049	1	43.555	Endrin Aldehyde
23.537	117409	VB	0.050	1	50.646	Endosulfan Sulfate
25.304	60430	BB	0.056	1	51.522	Methoxychlor
25.869	111130	BB	0.055	1	38.472	Endrin Ketone
30.072	306474	BB	0.089	1	86.086	Decachlorobiphenyl

Not all calibrated peaks were found

1	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0



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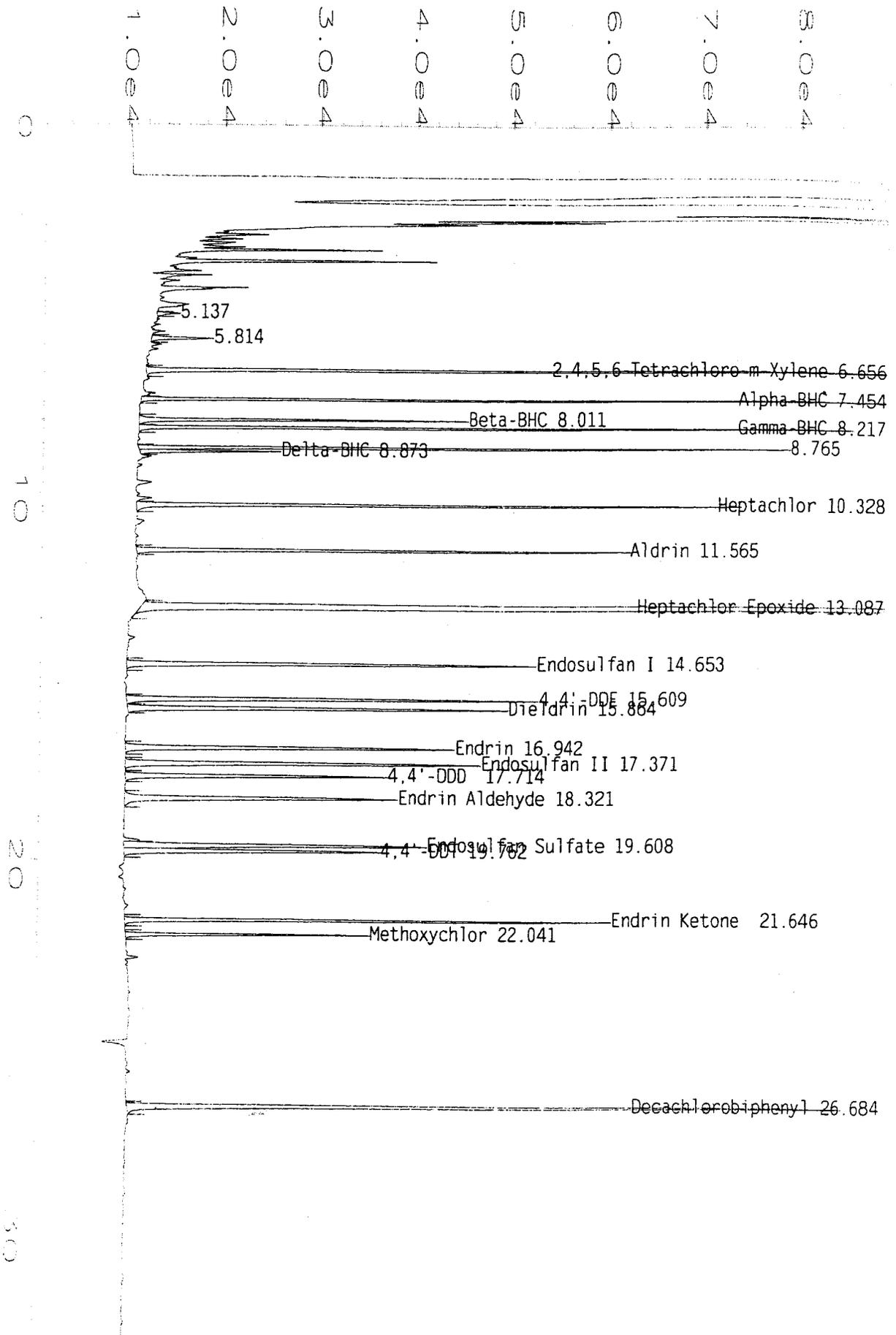
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Data File Name   : G:\HPCHEM\2\DATA\000407\010R0101.D
Operator        : GC-17                               Page Number     : 1
Instrument      : GC 17 ECD                           Vial Number     : 10
Sample Name     : MS 1139-14                         Injection Number: 1
Run Time Bar Code:                                   Sequence Line   : 1
Acquired on    : 07 Apr 00 06:53 PM                 Instrument Method: 8081.MTH
Report Created on: 10 Apr 00 09:45 AM              Analysis Method  : PST0407R.MTH
Last Recalib on : 30 MAR 00 04:30 PM               Sample Amount   : 0
Multiplier     : 1                                   ISTD Amount     :
  
```

Sig. 2 in G:\HPCHEM\2\DATA\000407\010R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.656	290914	BB	0.039	1	98.888	2,4,5,6-Tetrachloro-m-Xylene
7.454	210199	VB	0.037	1	49.932	Alpha-BHC
8.011	104949	BV	0.046	1	50.225	Beta-BHC
8.217	198413	PB	0.041	1	49.073	Gamma-BHC
8.873	45637	VV	0.048	1	15.697	Delta-BHC
10.328	216212	VB	0.053	1	49.765	Heptachlor
11.565	181689	BB	0.055	1	50.509	Aldrin
13.087	1897962	BB	0.071	1	411.470	Heptachlor Epoxide
14.216	* not found *			1		Gamma Chlordane
14.653	184247	BB	0.067	1	52.457	Endosulfan I
14.750	* not found *			1		Alpha Chlordane
5.609	188122	BV	0.069	1	54.553	4,4'-DDE
15.864	172891	VB	0.069	1	49.546	Dieldrin
16.942	159607	BB	0.072	1	54.498	Endrin
17.371	177714	BB	0.075	1	51.137	Endosulfan II
17.714	125892	BB	0.072	1	50.435	4,4'-DDD
18.321	150162	BB	0.082	1	49.204	Endrin Aldehyde
19.608	163695	VV	0.081	1	53.203	Endosulfan Sulfate
19.762	131943	VB	0.077	1	49.503	4,4'-DDT
21.646	173657	BB	0.054	1	46.306	Endrin Ketone
22.041	79099	BB	0.048	1	52.040	Methoxychlor
26.684	314370	BB	0.066	1	90.777	Decachlorobiphenyl

Not all calibrated peaks were found



0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300

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=====
Data File Name   : G:\HPCHEM\2\DATA\000407\011F0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : MSD 1139-14
Run Time Bar Code:
Acquired on     : 07 Apr 00 07:30 PM
Report Created on: 10 Apr 00 09:14 AM
Last Recalib on : 30 MAR 00 03:57 PM
Multiplier      : 1

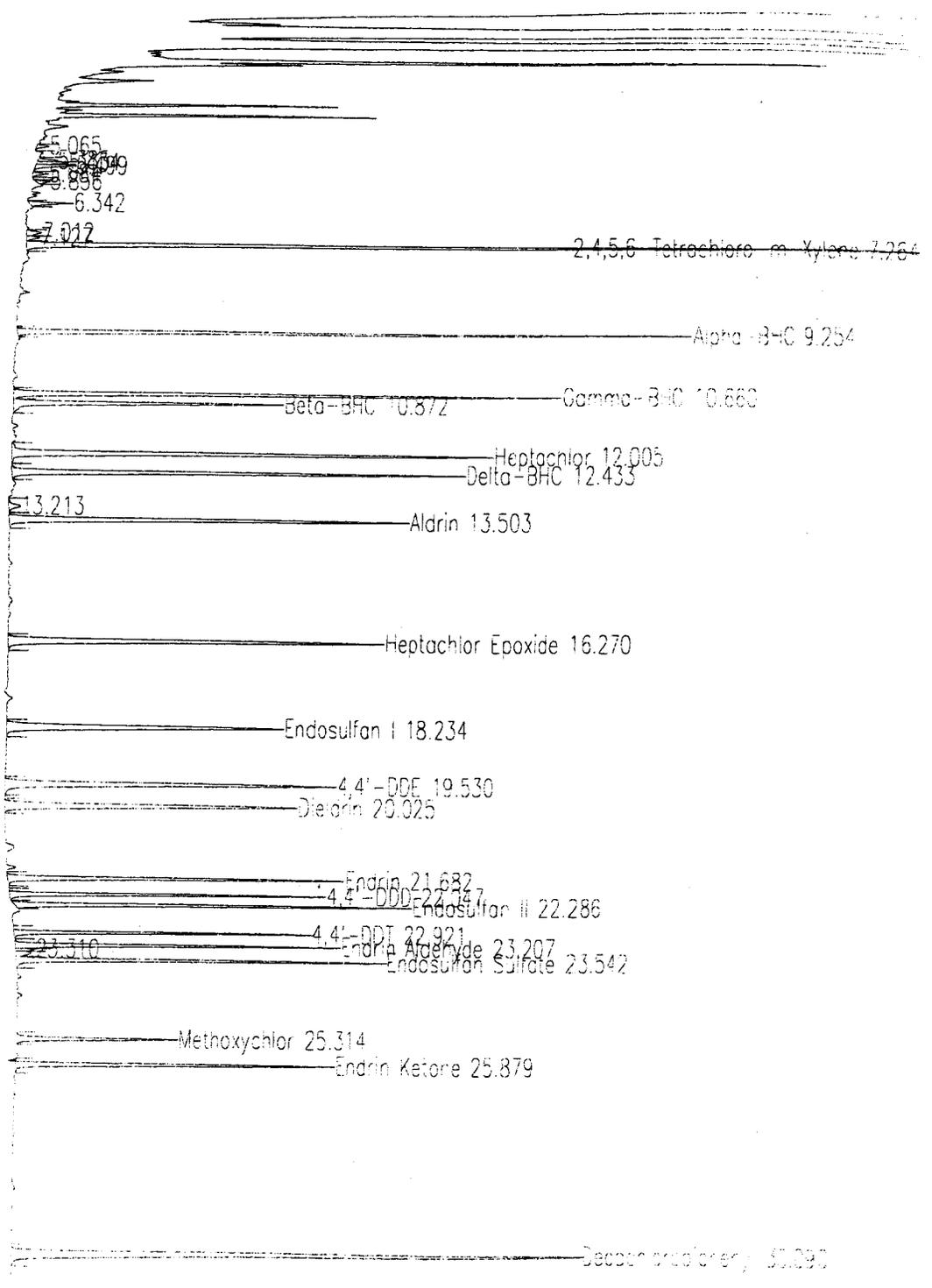
Page Number     : 1
Vial Number     : 11
Injection Number: 1
Sequence Line   : 1
Instrument Method: 8081.MTH
Analysis Method : PST0407F.MTH
Sample Amount   : 0
ISTD Amount     :
  
```

Sig. 1 in G:\HPCHEM\2\DATA\000407\011F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
7.264	263670	VV	0.045	1	88.965	2,4,5,6-Tetrachloro-m-Xylene
9.254	177640	BV	0.047	1	44.529	Alpha-BHC
10.660	166383	BV	0.054	1	44.429	Gamma-BHC
10.872	92442	VB	0.060	1	44.494	Beta-BHC
12.005	180567	BB	0.067	1	43.661	Heptachlor
12.433	149849	BV	0.059	1	47.383	Delta-BHC
13.503	155220	BB	0.070	1	44.540	Aldrin
16.270	161681	BB	0.077	1	44.226	Heptachlor Epoxide
17.110	* not found *			1		Gamma Chlordane
18.000	* not found *			1		Alpha Chlordane
18.234	133597	BB	0.087	1	38.153	Endosulfan I
19.530	145336	BB	0.078	1	44.485	4,4'-DDE
20.025	135351	BB	0.082	1	42.520	Dieldrin
21.682	106431	BB	0.056	1	46.199	Endrin
22.047	86102	BV	0.049	1	43.658	4,4'-DDD
22.286	114700	PV	0.052	1	41.295	Endosulfan II
22.921	72763	BB	0.043	1	37.449	4,4'-DDT
23.207	91633	BV	0.050	1	39.264	Endrin Aldehyde
23.542	105031	VB	0.050	1	45.290	Endosulfan Sulfate
25.314	49650	BB	0.055	1	42.347	Methoxychlor
25.879	98876	BB	0.057	1	34.293	Endrin Ketone
30.090	277273	BB	0.088	1	76.966	Decachlorobiphenyl

Not all calibrated peaks were found

0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0



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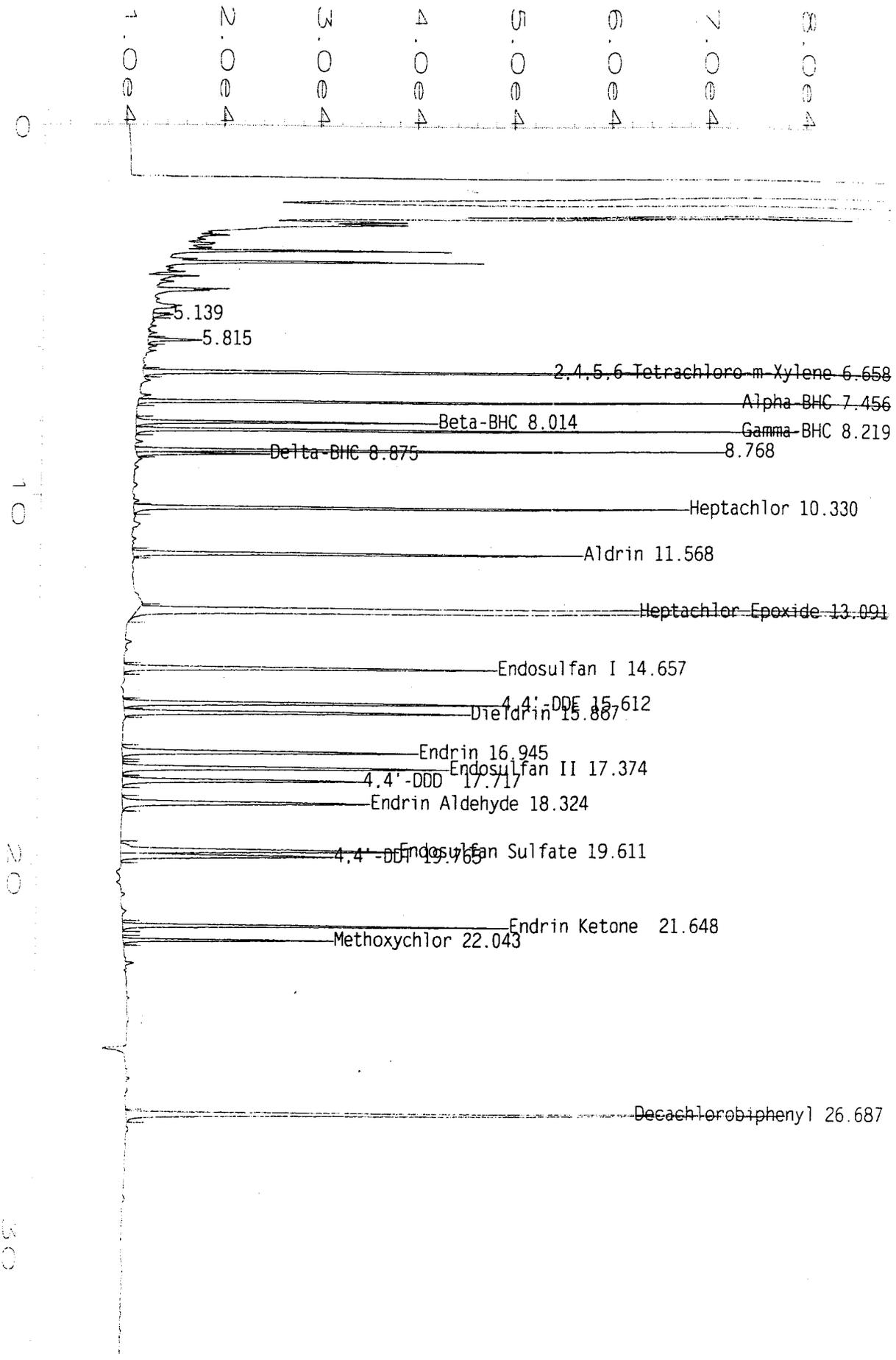
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Data File Name   : G:\HPCHEM\2\DATA\000407\011R0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : MSD 1139-14
Run Time Bar Code:
Acquired on    : 07 Apr 00 07:30 PM
Report Created on: 10 Apr 00 09:46 AM
Last Recalib on : 30 MAR 00 04:30 PM
Multiplier    : 1
Page Number    : 1
Vial Number    : 11
Injection Number : 1
Sequence Line  : 1
Instrument Method: 8081.MTH
Analysis Method : PST0407R.MTH
Sample Amount  : 0
ISTD Amount    :
  
```

Sig. 2 in G:\HPCHEM\2\DATA\000407\011R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.658	268294	BB	0.039	1	90.575	2,4,5,6-Tetrachloro-m-Xylene
7.456	191577	BB	0.037	1	45.735	Alpha-BHC
8.014	95756	BV	0.046	1	45.805	Beta-BHC
8.219	181760	PB	0.041	1	45.161	Gamma-BHC
8.875	43712	VV	0.048	1	15.198	Delta-BHC
10.330	196778	BV	0.053	1	45.243	Heptachlor
11.568	165513	BB	0.055	1	46.036	Aldrin
13.091	1724149	BB	0.071	1	374.054	Heptachlor Epoxide
14.216	* not found *			1		Gamma Chlordane
14.657	167393	BB	0.068	1	47.609	Endosulfan I
14.750	* not found *			1		Alpha Chlordane
15.612	170331	BV	0.068	1	49.475	4,4'-DDE
15.867	157557	VB	0.068	1	45.233	Dieldrin
16.945	144808	BB	0.074	1	49.733	Endrin
17.374	161022	BB	0.075	1	46.295	Endosulfan II
17.717	115911	BB	0.073	1	46.590	4,4'-DDD
18.324	135038	BB	0.082	1	43.967	Endrin Aldehyde
19.611	153048	BV	0.083	1	49.699	Endosulfan Sulfate
19.765	107940	VB	0.076	1	41.034	4,4'-DDT
21.648	135591	BB	0.053	1	35.933	Endrin Ketone
22.043	67248	BB	0.048	1	44.160	Methoxychlor
26.687	288488	BB	0.065	1	82.505	Decachlorobiphenyl

Not all calibrated peaks were found





LCS/LCSD QC Data

Geomatrix Consultants

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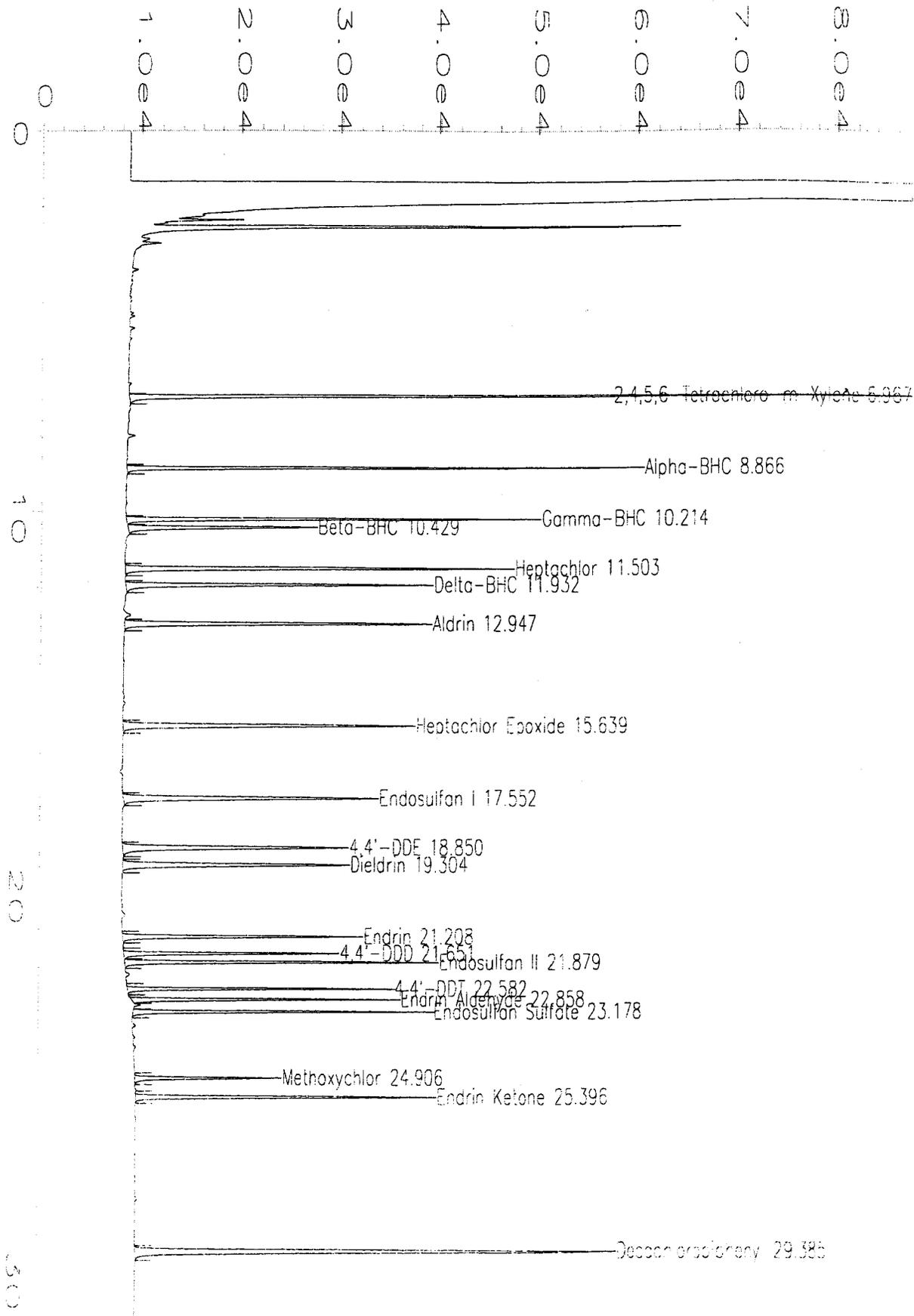
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Data File Name   : G:\HPCHEM\2\DATA\000405\031F0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : LCS PT 0404-6
Run Time Bar Code:
Acquired on    : 06 Apr 00 07:14 PM
Report Created on: 07 Apr 00 09:04 AM
Last Recalib on : 30 MAR 00 03:57 PM
Multiplier     : 1

Page Number     : 1
Vial Number    : 31
Injection Number : 1
Sequence Line  : 1
Instrument Method: 8081.MTH
Analysis Method : PST0406F.MTH
Sample Amount  : 0
ISTD Amount    :
  
```

Sig. 1 in G:\HPCHEM\2\DATA\000405\031F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
6.967	244954	BB	0.044	1	82.209	2,4,5,6-Tetrachloro-m-Xylene
8.866	154434	BB	0.046	1	39.271	Alpha-BHC
10.214	143311	BV	0.053	1	38.816	Gamma-BHC
10.429	77529	VB	0.062	1	37.432	Beta-BHC
11.503	161744	BB	0.064	1	39.159	Heptachlor
11.932	123086	BB	0.061	1	39.956	Delta-BHC
12.947	136179	BB	0.068	1	39.214	Aldrin
15.639	145250	BB	0.077	1	39.768	Heptachlor Epoxide
16.610	* not found *			1		Gamma Chlordane
17.300	* not found *			1		Alpha Chlordane
17.552	133561	BB	0.080	1	38.143	Endosulfan I
18.850	119623	BB	0.081	1	36.918	4,4'-DDE
19.304	122189	BB	0.084	1	38.562	Dieldrin
21.208	94034	BB	0.060	1	41.310	Endrin
21.651	73560	BV	0.052	1	37.725	4,4'-DDD
21.879	111792	VB	0.055	1	40.253	Endosulfan II
22.582	79867	BB	0.046	1	40.811	4,4'-DDT
22.858	86454	BV	0.049	1	36.866	Endrin Aldehyde
23.178	94033	BB	0.048	1	40.531	Endosulfan Sulfate
24.906	50458	BB	0.053	1	43.035	Methoxychlor
25.396	108166	BB	0.056	1	37.461	Endrin Ketone
29.385	259238	BB	0.084	1	71.333	Decachlorobiphenyl

Not all calibrated peaks were found



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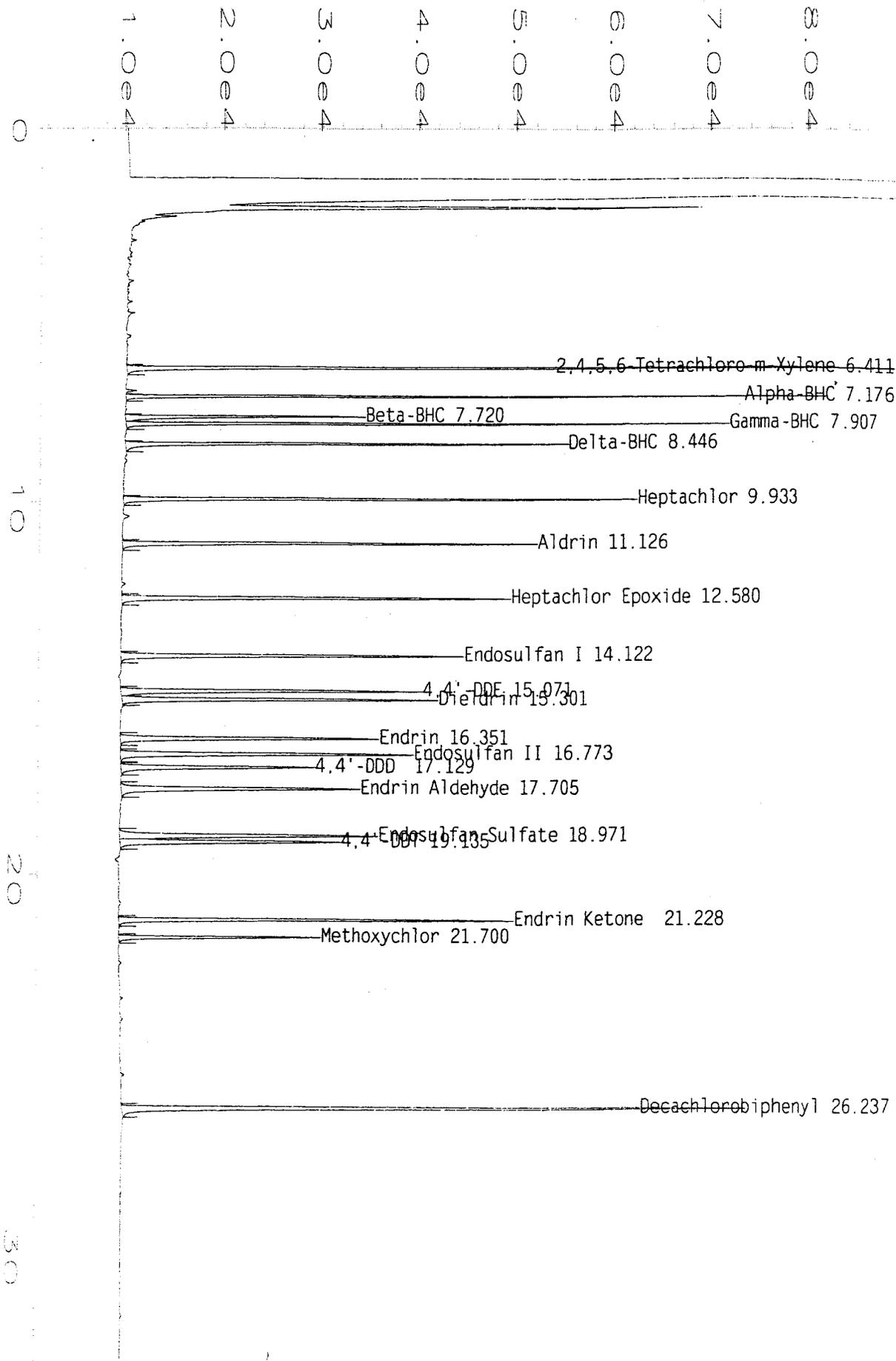
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Data File Name   : G:\HPCHEM\2\DATA\000405\031R0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : LCS PT 0404-6
Run Time Bar Code:
Acquired on    : 06 Apr 00 07:14 PM
Report Created on: 07 Apr 00 09:08 AM
Last Recalib on : 30 MAR 00 04:30 PM
Multiplier     : 1

Page Number     : 1
Vial Number     : 31
Injection Number: 1
Sequence Line   : 1
Instrument Method: 8081.MTH
Analysis Method : PST0406R.MTH
Sample Amount   : 0
ISTD Amount     :
  
```

Sig. 2 in G:\HPCHEM\2\DATA\000405\031R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.411	250435	BB	0.038	1	84.012	2,4,5,6-Tetrachloro-m-Xylene
7.176	167420	BB	0.036	1	40.291	Alpha-BHC
7.720	82308	BV	0.050	1	39.339	Beta-BHC
7.907	162111	VB	0.040	1	40.545	Gamma-BHC
8.446	143707	BB	0.048	1	41.134	Delta-BHC
9.933	175539	BB	0.051	1	40.300	Heptachlor
11.126	149803	BB	0.054	1	41.693	Aldrin
12.580	159122	BB	0.062	1	37.162	Heptachlor Epoxide
13.716	* not found *			1		Gamma Chlordane
14.122	150045	BB	0.066	1	42.618	Endosulfan I
14.300	* not found *			1		Alpha Chlordane
15.071	138441	BV	0.069	1	40.373	4,4'-DDE
15.301	143465	VB	0.068	1	41.270	Dieldrin
16.351	122172	BB	0.071	1	42.444	Endrin
16.773	144284	BB	0.075	1	41.439	Endosulfan II
17.129	95045	BB	0.074	1	38.552	4,4'-DDD
17.705	127788	BB	0.080	1	41.457	Endrin Aldehyde
18.971	138886	BV	0.082	1	45.039	Endosulfan Sulfate
19.135	113083	VB	0.077	1	42.848	4,4'-DDT
21.228	152877	BB	0.059	1	40.644	Endrin Ketone
21.700	70758	BB	0.053	1	46.494	Methoxychlor
26.237	269921	BB	0.065	1	76.571	Decachlorobiphenyl

Not all calibrated peaks were found



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=====
Data File Name   : G:\HPCHEM\2\DATA\000405\032F0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : LCSD PT 0404-6
Run Time Bar Code:
Acquired on    : 06 Apr 00 07:51 PM
Report Created on: 07 Apr 00 09:04 AM
Last Recalib on : 30 MAR 00 03:57 PM
Multiplier     : 1

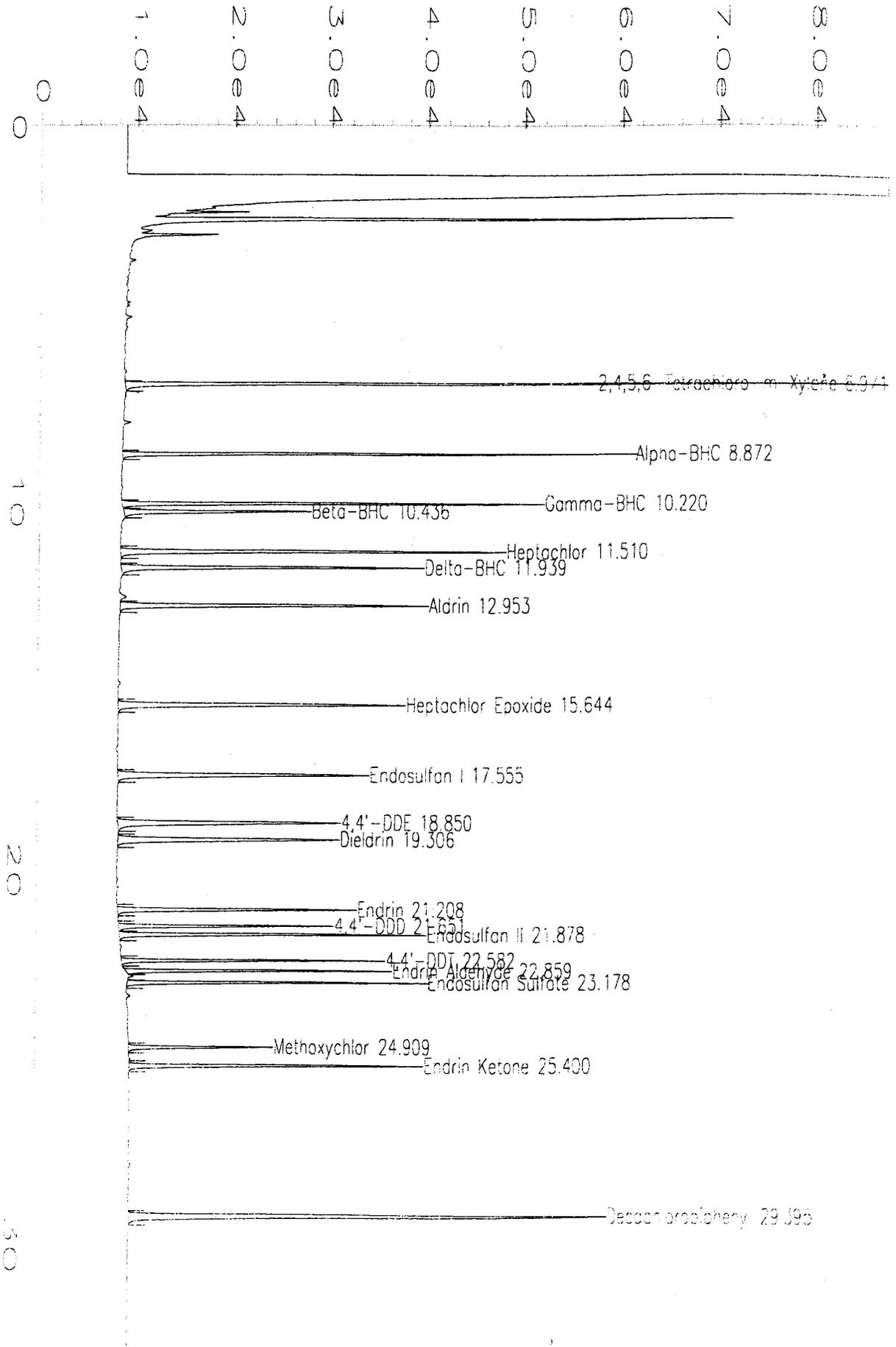
Page Number    : 1
Vial Number    : 32
Injection Number : 1
Sequence Line  : 1
Instrument Method: 8081.MTH
Analysis Method : PST0406F.MTH
Sample Amount  : 0
ISTD Amount    :

```

Sig. 1 in G:\HPCHEM\2\DATA\000405\032F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
6.971	253367	BB	0.044	1	85.246	2,4,5,6-Tetrachloro-m-Xylene
8.872	158396	BB	0.046	1	40.169	Alpha-BHC
10.220	148440	BV	0.052	1	40.063	Gamma-BHC
10.436	78621	VB	0.062	1	37.949	Beta-BHC
11.510	164135	BB	0.063	1	39.731	Heptachlor
11.939	125408	BB	0.061	1	40.601	Delta-BHC
12.953	138689	BB	0.067	1	39.916	Aldrin
15.644	147374	BB	0.077	1	40.344	Heptachlor Epoxide
16.610	* not found *			1		Gamma Chlordane
17.300	* not found *			1		Alpha Chlordane
7.555	136355	BB	0.081	1	38.917	Endosulfan I
8.850	121803	BB	0.081	1	37.559	4,4'-DDE
19.306	123980	BB	0.085	1	39.100	Dieldrin
21.208	96653	BB	0.060	1	42.343	Endrin
21.651	75147	BV	0.052	1	38.476	4,4'-DDD
21.878	113394	VB	0.055	1	40.827	Endosulfan II
22.582	81332	BB	0.046	1	41.503	4,4'-DDT
22.859	87451	BV	0.049	1	37.328	Endrin Aldehyde
23.178	95302	BB	0.047	1	41.080	Endosulfan Sulfate
24.909	50717	BB	0.053	1	43.255	Methoxychlor
25.400	109690	BB	0.056	1	37.981	Endrin Ketone
29.395	268091	BB	0.085	1	74.098	Decachlorobiphenyl

Not all calibrated peaks were found



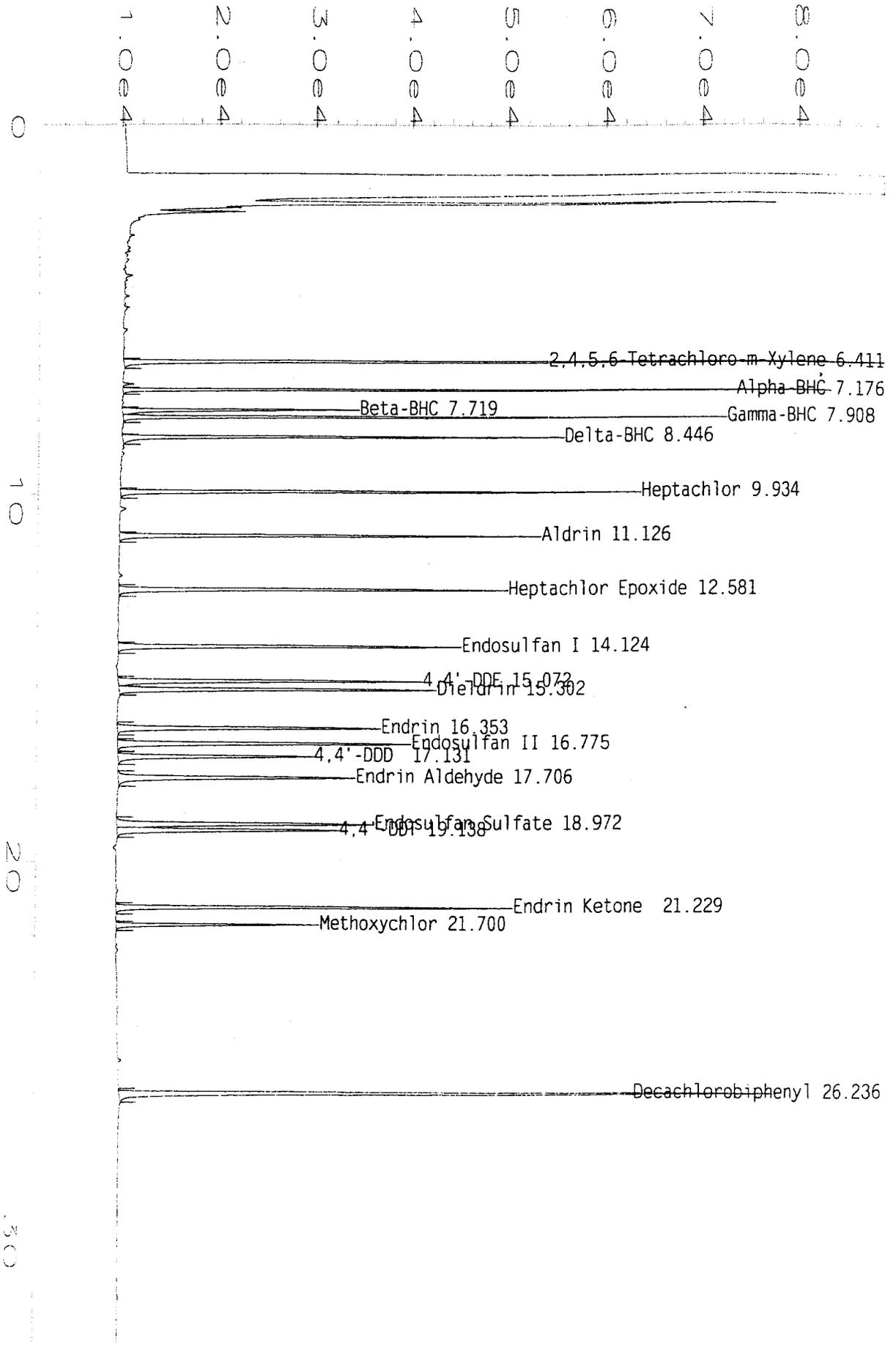
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Data File Name      : G:\HPCHEM\2\DATA\000405\032R0101.D
Operator           : GC-17                               Page Number      : 1
Instrument         : GC 17 ECD                           Vial Number     : 32
Sample Name       : LCSD PT 0404-6                       Injection Number : 1
Run Time Bar Code:                                       Sequence Line    : 1
Acquired on      : 06 Apr 00 07:51 PM                    Instrument Method: 8081.MTH
Report Created on: 07 Apr 00 09:09 AM                    Analysis Method  : PST0406R.MTH
Last Recalib on  : 30 MAR 00 04:30 PM                    Sample Amount   : 0
Multiplier       : 1                                       ISTD Amount     :
  
```

Sig. 2 in G:\HPCHEM\2\DATA\000405\032R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.411	257700	BB	0.038	1	86.682	2,4,5,6-Tetrachloro-m-Xylene
7.176	170519	BB	0.036	1	40.990	Alpha-BHC
7.719	83620	BV	0.051	1	39.969	Beta-BHC
7.908	165271	VB	0.041	1	41.287	Gamma-BHC
8.446	146147	BB	0.049	1	41.766	Delta-BHC
9.934	178278	BB	0.050	1	40.938	Heptachlor
11.126	153178	BB	0.054	1	42.626	Aldrin
12.581	162033	BB	0.062	1	37.788	Heptachlor Epoxide
13.716	* not found *			1		Gamma Chlordane
14.124	152911	BB	0.067	1	43.442	Endosulfan I
4.300	* not found *			1		Alpha Chlordane
5.072	141177	BV	0.069	1	41.154	4,4'-DDE
15.302	145752	VB	0.069	1	41.913	Dieldrin
16.353	125510	BB	0.072	1	43.519	Endrin
16.775	146492	BB	0.075	1	42.079	Endosulfan II
17.131	97126	BB	0.074	1	39.353	4,4'-DDD
17.706	128906	BB	0.081	1	41.844	Endrin Aldehyde
18.972	140465	BV	0.082	1	45.558	Endosulfan Sulfate
19.138	114440	VB	0.077	1	43.327	4,4'-DDT
21.229	154737	BB	0.059	1	41.150	Endrin Ketone
21.700	71652	BB	0.053	1	47.088	Methoxychlor
26.236	278419	BB	0.063	1	79.287	Decachlorobiphenyl

Not all calibrated peaks were found



```

=====
Data File Name   : G:\HPCHEM\2\DATA\000407\004F0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : LCS PB 0404-6
Run Time Bar Code:
Acquired on    : 07 Apr 00 03:09 PM
Report Created on: 10 Apr 00 09:58 AM

Page Number     : 1
Vial Number     : 4
Injection Number: 1
Sequence Line   : 1
Instrument Method: 8081.MTH
Analysis Method : PCB.MTH
    
```

Sig. 1 in G:\HPCHEM\2\DATA\000407\004F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	5.391	2298	655	BB	0.054	0.1881
2	7.260	259144	86732	BV	0.045	21.2095
3	8.354	1083	487	PV	0.037	0.0887
4	8.889	2613	620	BV	0.062	0.2139
5	9.103	11931	2965	PV	0.061	0.9765
6	10.550	27478	4981	BB	0.087	2.2489
7	11.394	6790	1610	BV	0.065	0.5557
8	11.497	4382	925	VV	0.071	0.3587
9	11.740	11617	2116	VV	0.081	0.9508
10	11.955	19254	4711	PV	0.063	1.5759
11	12.039	36124	6043	VB	0.086	2.9566
12	12.735	18104	3210	BV	0.084	1.4817
13	13.210	4278	893	BV	0.075	0.3502
14	13.373	26028	3920	VV	0.104	2.1303
15	13.626	12269	2319	VV	0.081	1.0042
16	13.772	5596	1051	VV	0.079	0.4580
17	13.960	9276	1112	VB	0.114	0.7592
18	14.991	18076	3049	BV	0.088	1.4794
19	15.214	5615	1101	VB	0.079	0.4595
20	15.510	3607	818	BV	0.070	0.2952
21	15.636	7773	1516	VB	0.079	0.6362
22	15.922	2109	486	BV	0.069	0.1726
23	16.698	4403	741	BB	0.093	0.3603
24	17.105	13186	2179	BB	0.092	1.0792
25	17.420	12144	2100	BB	0.090	0.9939
26	20.410	22660	3462	BV	0.106	1.8546
27	20.694	2941	724	PV	0.062	0.2407
28	20.787	5491	1207	VV	0.068	0.4494
29	20.886	6226	1331	VV	0.071	0.5096
30	21.230	36640	7448	PV	0.075	2.9988
31	21.543	40237	9906	PB	0.063	3.2931
32	22.222	12765	3719	BB	0.053	1.0448
33	22.637	21285	5868	BV	0.056	1.7421
34	22.748	15585	4241	VV	0.056	1.2755
35	22.895	29542	8280	VV	0.054	2.4178
36	22.974	26851	7749	VV	0.052	2.1976

127529

(c) = 158

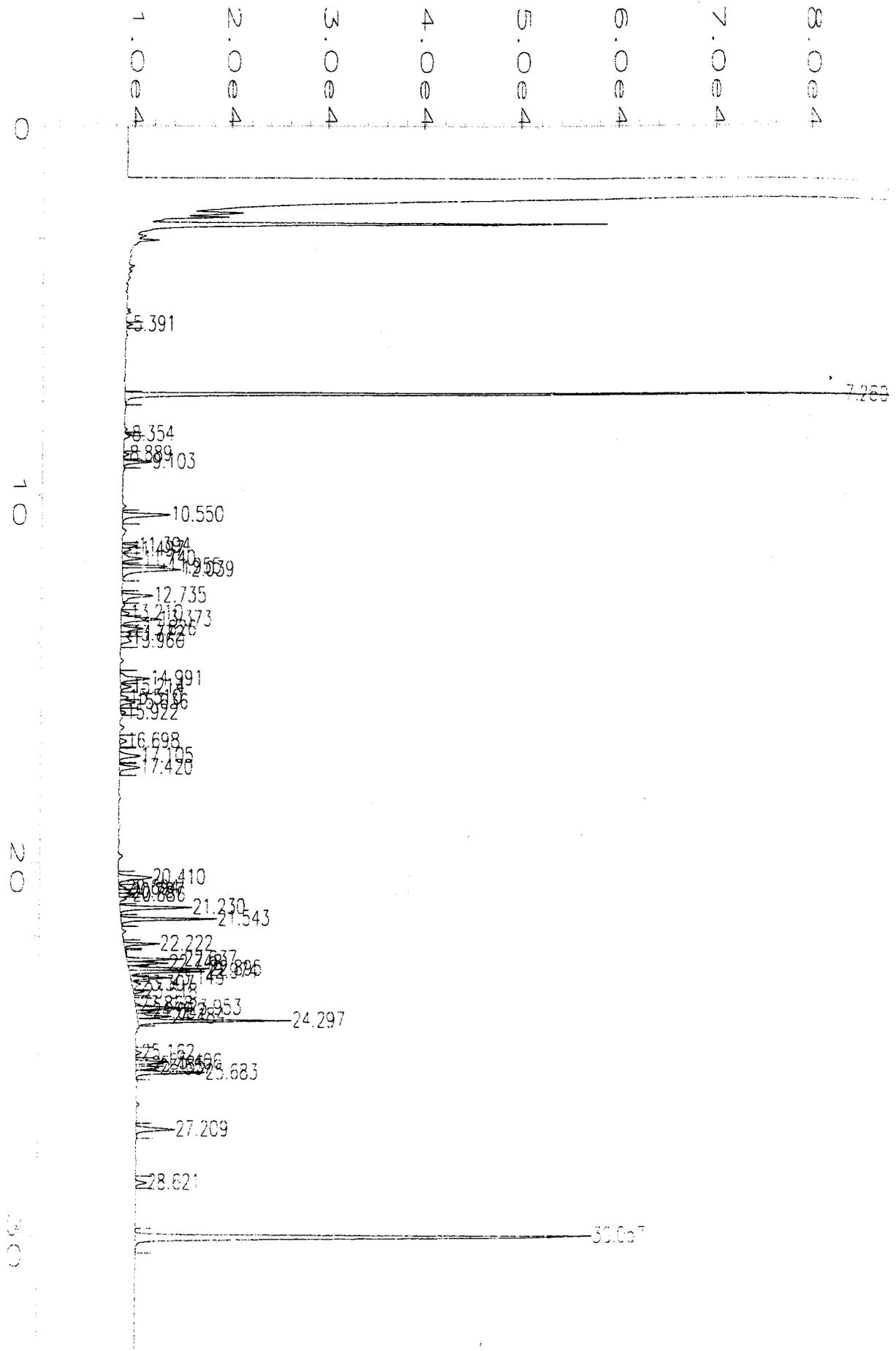
196749

(c) = 163

38	23.307	6371	940	VV	0.092	0.5214 ¹⁸⁴
39	23.518	3873	1136	VB	0.052	0.3170
40	23.868	1071	455	BV	0.039	0.0876
41	23.953	18146	5379	VV	0.052	1.4852
42	24.052	6170	1628	VV	0.057	0.5049
43	24.184	14004	3586	VV	0.059	1.1462
44	24.297	58882	15883	VV	0.056	4.8192
45	25.162	2292	591	BB	0.060	0.1876
46	25.406	12460	3380	BV	0.057	1.0198
47	25.485	5017	1618	VV	0.052	0.4106
48	25.557	9253	2411	VV	0.058	0.7573
49	25.683	28359	7068	VV	0.062	2.3211
50	27.209	21223	3999	BB	0.079	1.7370
51	28.621	5511	1167	BB	0.074	0.4510
52	30.057	269597	47217	BB	0.090	22.0651

Total area = 1221827

=====



0.004
 1.004
 2.004
 3.004
 4.004
 5.004
 6.004
 7.004
 8.004

```

=====
Data File Name   : G:\HPCHEM\2\DATA\000407\005F0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : LCSD PB 0404-6
Run Time Bar Code:
Acquired on    : 07 Apr 00 03:47 PM
Report Created on: 10 Apr 00 09:58 AM

Page Number     : 1
Vial Number     : 5
Injection Number: 1
Sequence Line   : 1
Instrument Method: 8081.MTH
Analysis Method : PCB.MTH
    
```

Sig. 1 in G:\HPCHEM\2\DATA\000407\005F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
1	7.248	251966	84147	BV	0.045	20.5795
2	8.338	1029	459	PV	0.037	0.0841
3	8.873	2626	619	BV	0.063	0.2145
4	9.087	<u>12129</u>	2963	PV	0.062	0.9906
5	10.533	<u>27864</u>	4988	BB	0.088	2.2758
6	11.378	6833	1607	BV	0.066	0.5581
7	11.481	4485	924	VV	0.072	0.3663
8	11.724	11728	2146	VV	0.080	0.9579
9	11.940	19352	4730	PV	0.063	1.5806
10	12.023	<u>37789</u>	6126	VB	0.089	3.0865
11	12.720	<u>18098</u>	3178	BV	0.086	1.4782
12	13.196	3840	808	BV	0.074	0.3136
13	13.356	26664	4026	VV	0.104	2.1778
14	13.610	<u>12591</u>	2378	VV	0.081	1.0284
15	13.756	5663	1058	VV	0.080	0.4625
16	13.868	3446	858	VV	0.067	0.2815
17	13.943	5957	1111	VB	0.080	0.4865
18	14.975	<u>18168</u>	3076	BV	0.089	1.4839
19	15.198	5428	1105	VB	0.076	0.4434
20	15.494	<u>3407</u>	801	BV	0.068	0.2783
21	15.622	7856	1481	VB	0.082	0.6417
22	15.906	2198	496	BV	0.072	0.1795
23	16.684	4437	751	BB	0.092	0.3624
24	17.089	13469	2218	BB	0.092	1.1001
25	17.405	13650	2325	BB	0.091	1.1149
26	20.400	<u>23388</u>	3502	BV	0.107	1.9103
27	20.685	3117	756	VV	0.063	0.2546
28	20.779	5646	1237	VV	0.068	0.4612
29	20.878	6457	1372	VV	0.071	0.5273
30	20.989	3739	771	VV	0.074	0.3054
31	21.224	<u>37697</u>	7549	PV	0.076	3.0790
32	21.538	<u>41499</u>	10036	PB	0.064	3.3895
33	22.218	13200	3747	BV	0.055	1.0781
34	22.633	21054	6016	BV	0.054	1.7196
35	22.744	15769	4371	VV	0.055	1.2880
36	22.891	<u>30362</u>	8408	VV	0.054	2.4798

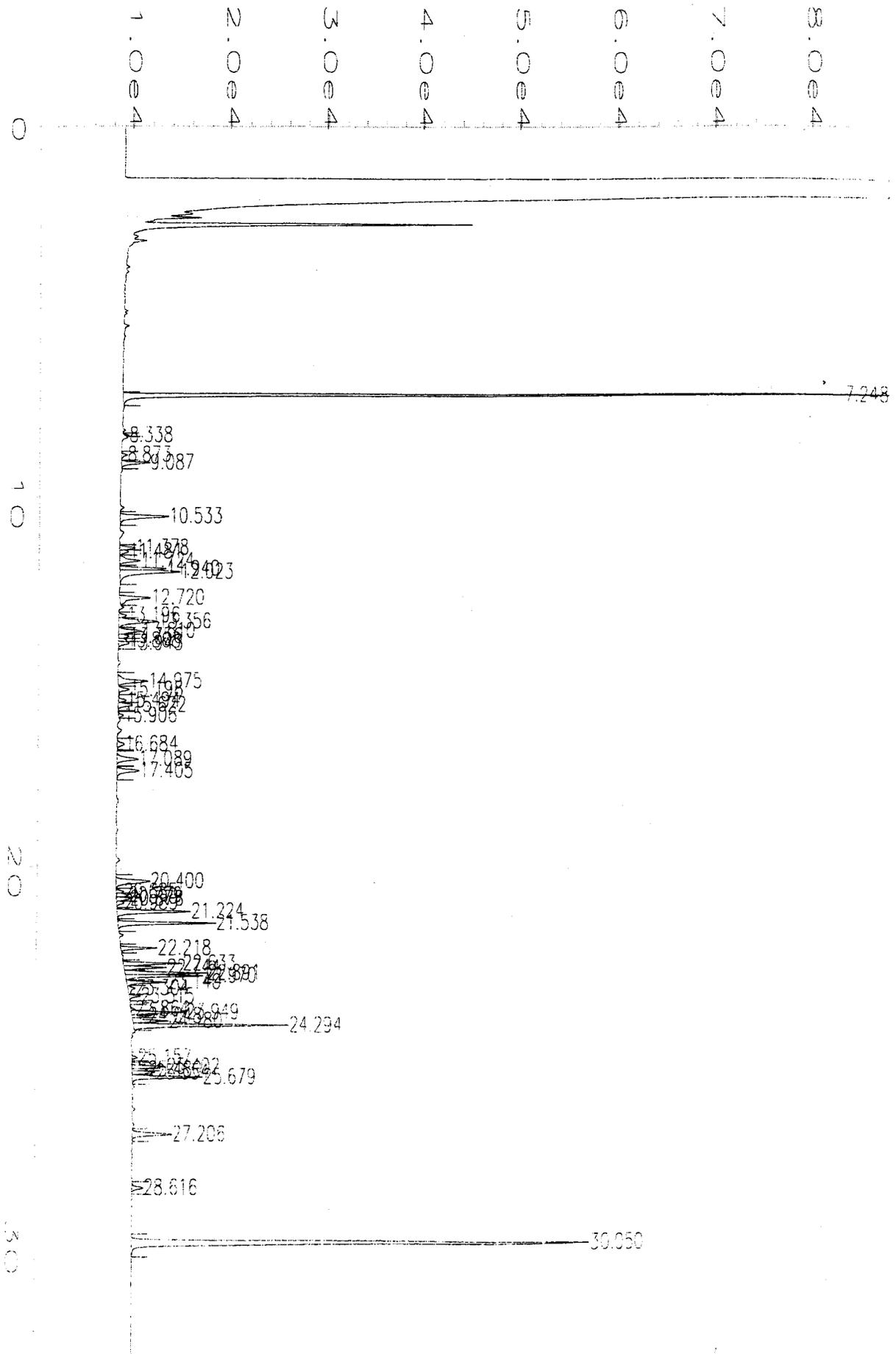
130046
 (2) = 162

202055
 (2) = 178

38	23.140	14387	4130	VV	0.053	1.1751 ¹⁸⁷
39	23.304	5022	762	VV	0.089	0.4102
40	23.515	4209	1186	VB	0.054	0.3438
41	23.864	1015	443	BV	0.038	0.0829
42	23.949	18564	5534	VV	0.052	1.5162
43	24.048	6264	1644	VV	0.058	0.5116
44	24.180	14370	3626	VV	0.060	1.1736
45	24.294	60646	15894	VV	0.058	4.9534
46	25.157	2121	591	BB	0.057	0.1732
47	25.402	12677	3474	BV	0.056	1.0354
48	25.480	5022	1618	VV	0.052	0.4101
49	25.554	9024	2370	VV	0.058	0.7371
50	25.679	28817	7160	VV	0.062	2.3536
51	27.206	21186	3996	BB	0.080	1.7304
52	28.616	5654	1183	BB	0.074	0.4618
53	30.050	265157	47229	BB	0.088	21.6569

Total area = 1224351

=====



ON-PO-EM-2\DATA\000407\005\F0101.D



Method Blank QC Data

Geomatrix Consultants

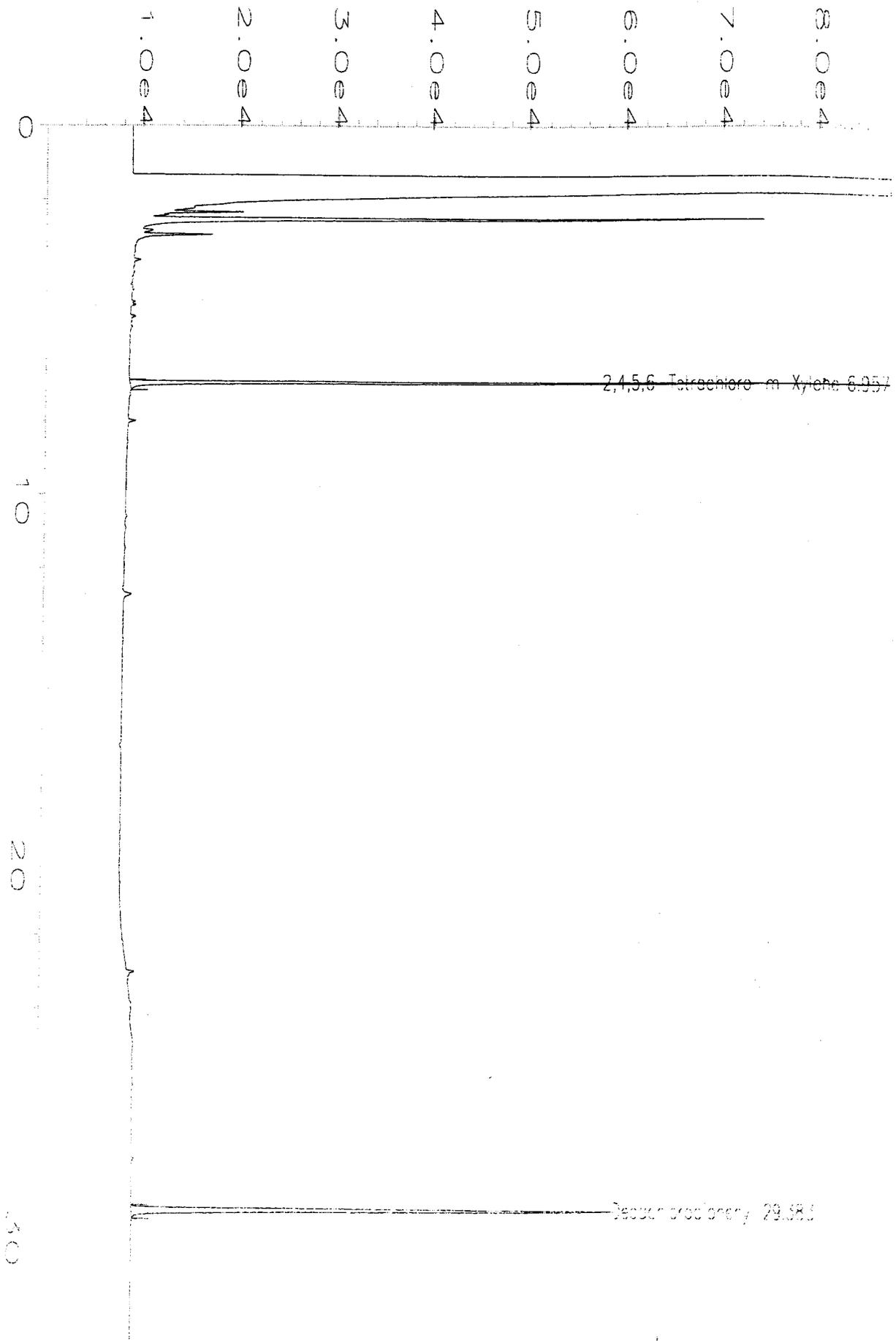
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=====
Data File Name   : G:\HPCHEM\2\DATA\000405\030F0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : MB 0404-6
Run Time Bar Code:
Acquired on    : 06 Apr 00 06:37 PM
Report Created on: 07 Apr 00 09:04 AM
Last Recalib on : 30 MAR 00 03:57 PM
Multiplier     : 1
Page Number    : 1
Vial Number    : 30
Injection Number : 1
Sequence Line  : 1
Instrument Method: 8081.MTH
Analysis Method : PST0406F.MTH
Sample Amount  : 0
ISTD Amount    :
  
```

Sig. 1 in G:\HPCHEM\2\DATA\000405\030F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ml	Name
6.957	253061	BB	0.044	1	85.135	2,4,5,6-Tetrachloro-m-Xylene
8.895	* not found	*		1		Alpha-BHC
10.280	* not found	*		1		Gamma-BHC
10.370	* not found	*		1		Beta-BHC
11.558	* not found	*		1		Heptachlor
11.984	* not found	*		1		Delta-BHC
12.900	* not found	*		1		Aldrin
15.630	* not found	*		1		Heptachlor Epoxide
16.610	* not found	*		1		Gamma Chlordane
17.300	* not found	*		1		Alpha Chlordane
17.493	* not found	*		1		Endosulfan I
18.882	* not found	*		1		4,4'-DDE
19.280	* not found	*		1		Dieldrin
21.060	* not found	*		1		Endrin
21.561	* not found	*		1		4,4'-DDD
21.800	* not found	*		1		Endosulfan II
22.528	* not found	*		1		4,4'-DDT
22.712	* not found	*		1		Endrin Aldehyde
23.143	* not found	*		1		Endosulfan Sulfate
24.996	* not found	*		1		Methoxychlor
25.463	* not found	*		1		Endrin Ketone
29.383	262601	BB	0.082	1	72.384	Decachlorobiphenyl

Not all calibrated peaks were found



```

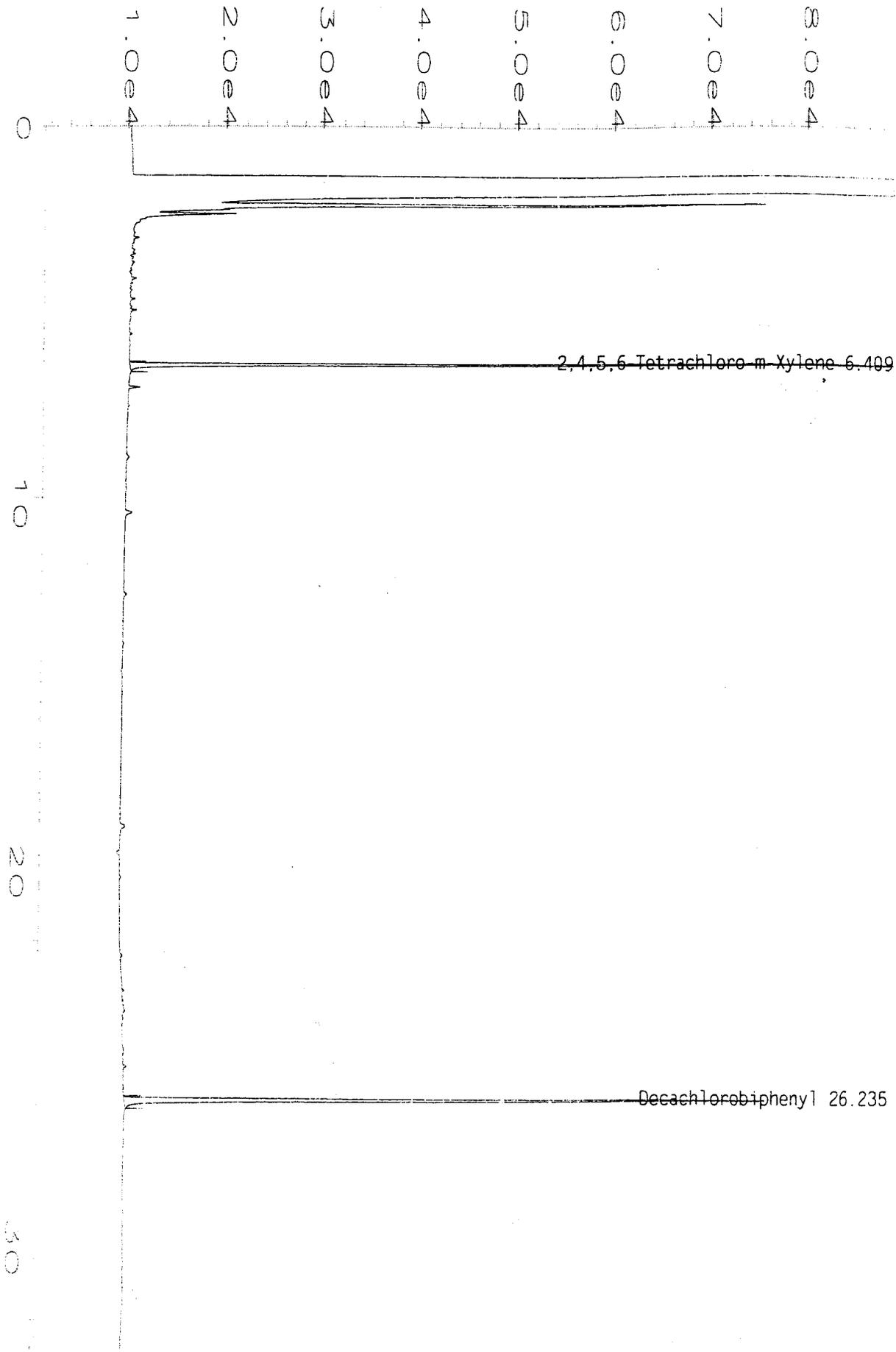
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Data File Name   : G:\HPCHEM\2\DATA\000405\030R0101.D
Operator        : GC-17
Instrument       : GC 17 ECD
Sample Name     : MB 0404-6
Run Time Bar Code:
Acquired on    : 06 Apr 00 06:37 PM
Report Created on: 07 Apr 00 09:08 AM
Last Recalib on : 30 MAR 00 04:30 PM
Multiplier     : 1

Page Number     : 1
Vial Number     : 30
Injection Number : 1
Sequence Line   : 1
Instrument Method: 8081.MTH
Analysis Method : PST0406R.MTH
Sample Amount   : 0
ISTD Amount     :
  
```

Sig. 2 in G:\HPCHEM\2\DATA\000405\030R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.409	255286	BB	0.038	1	85.795	2,4,5,6-Tetrachloro-m-Xylene
7.226	* not found *			1		Alpha-BHC
7.781	* not found *			1		Beta-BHC
7.987	* not found *			1		Gamma-BHC
8.432	* not found *			1		Delta-BHC
9.989	* not found *			1		Heptachlor
11.222	* not found *			1		Aldrin
12.721	* not found *			1		Heptachlor Epoxide
13.716	* not found *			1		Gamma Chlordane
14.100	* not found *			1		Endosulfan I
14.300	* not found *			1		Alpha Chlordane
15.055	* not found *			1		4,4'-DDE
15.312	* not found *			1		Dieldrin
16.388	* not found *			1		Endrin
16.765	* not found *			1		Endosulfan II
17.256	* not found *			1		4,4'-DDD
17.625	* not found *			1		Endrin Aldehyde
18.900	* not found *			1		Endosulfan Sulfate
19.100	* not found *			1		4,4'-DDT
21.208	* not found *			1		Endrin Ketone
21.607	* not found *			1		Methoxychlor
26.235	272768	BB	0.063	1	77.481	Decachlorobiphenyl

Not all calibrated peaks were found





Extraction Log

Geomatrix Consultants



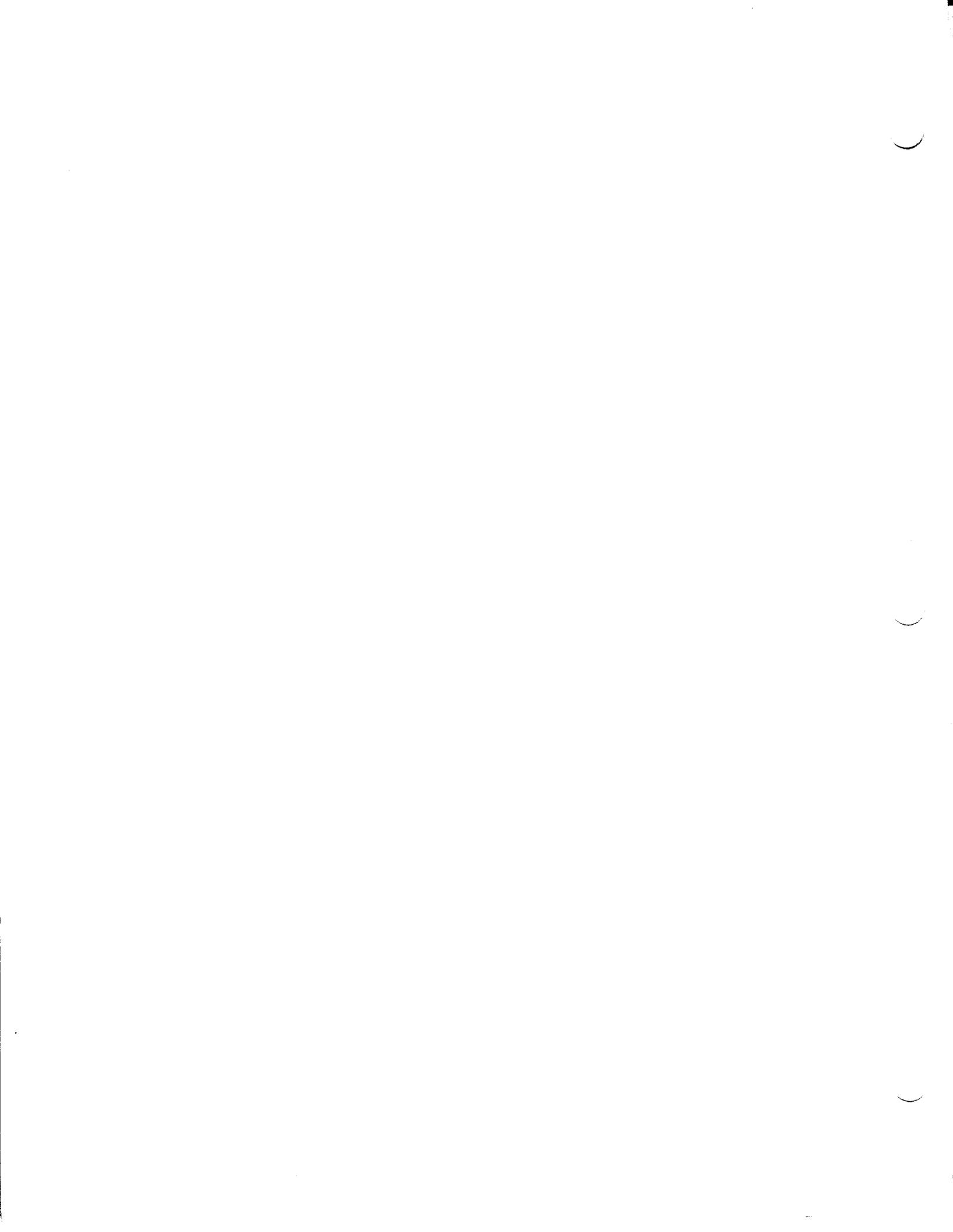
**SVOCs (EPA 8270C)
Raw Data**

Geomatrix Consultants



**SVOCs (EPA 8270C)
Raw Data**

Geomatrix Consultants





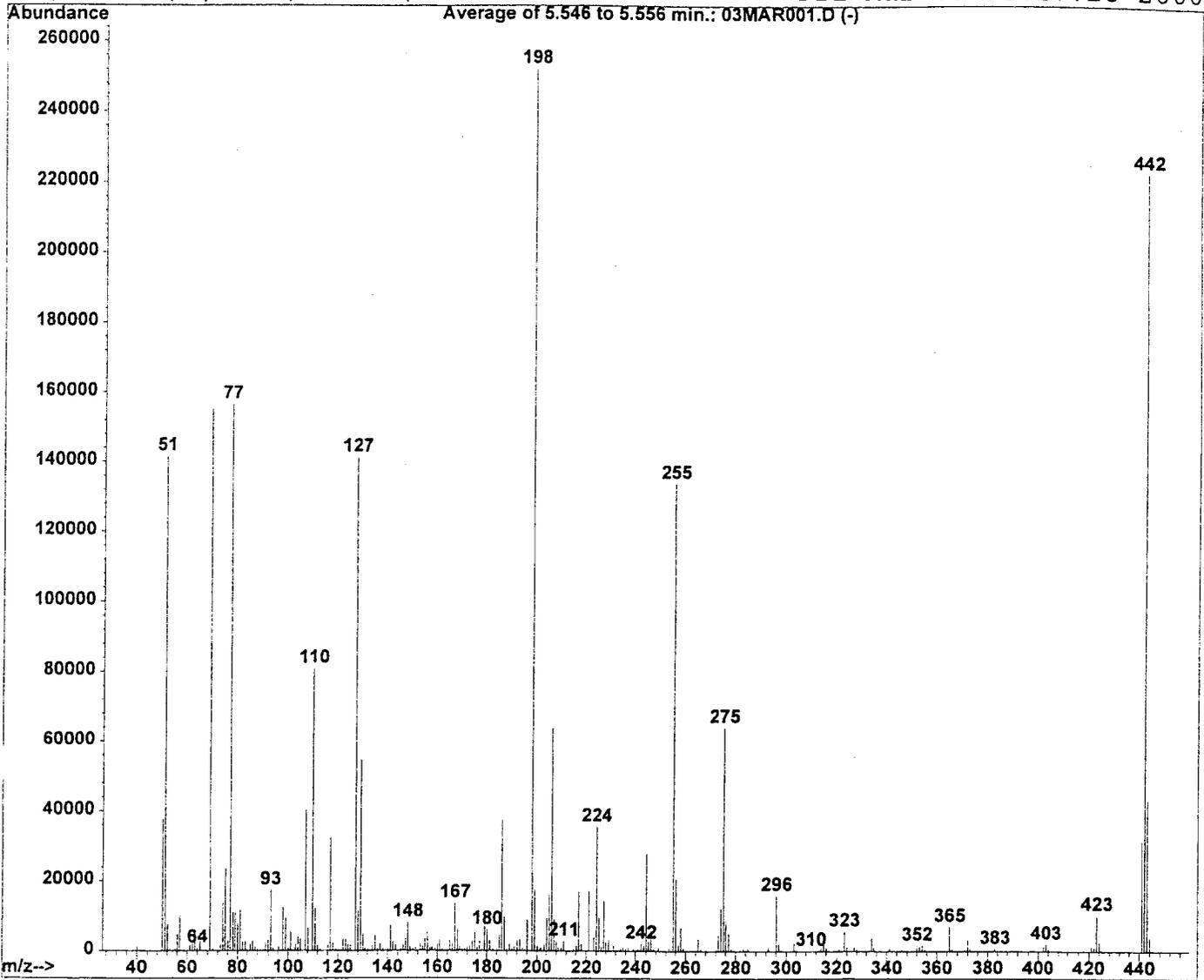
Initial Calibration Raw Data

Geomatrix Consultants



C:\HPCHEM\1\DATA\000303\03MAR001.D

Fri Mar 03 11:27:28 2000



Peak Apex is scan: 276

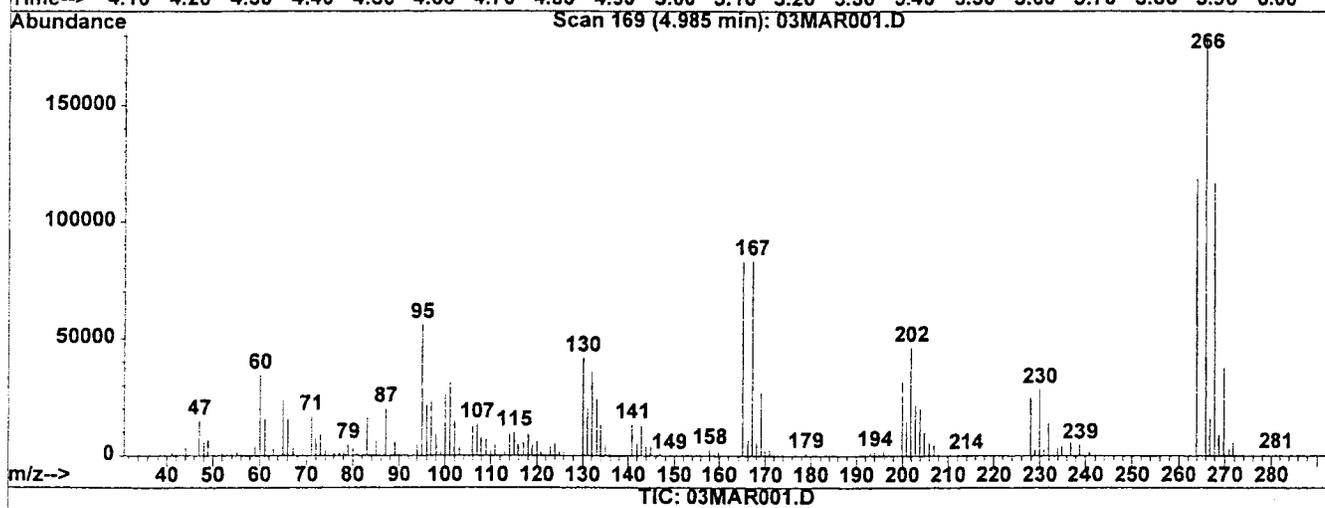
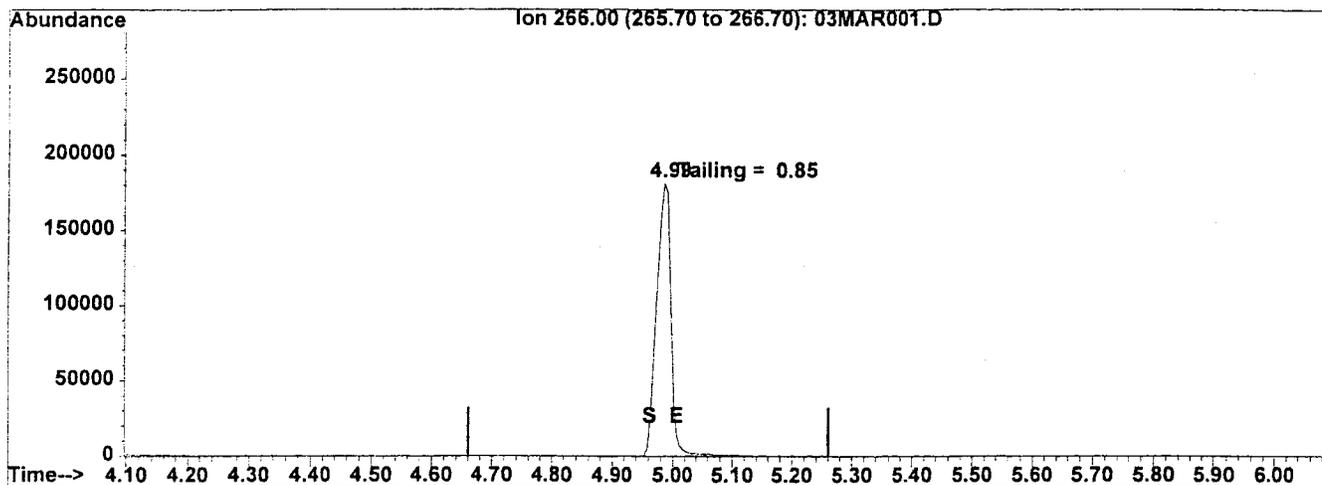
Average of 3 scans: 275,276,277 minus background scan 268

Target Mass	Comparison Mass	Lower Limit, %	Upper Limit, %	Relative Abundance, %	Result Pass/Fail
51	198	30	60	56.1	PASS
68	69	0	2	0.0	PASS
69	198	0	100	61.6	PASS
70	69	0	2	0.5	PASS
127	198	40	60	56.0	PASS
197	198	0	1	0.0	PASS
198	198	100	100	100.0	PASS
199	198	5	9	6.9	PASS
275	198	10	30	25.4	PASS
365	198	1	100	2.8	PASS
441	443	0	100	73.0	PASS
442	198	40	100	88.4	PASS
443	442	17	23	19.4	PASS

Data File : C:\HPCHEM\1\DATA\000303\03MAR001.D
 Acq On : 3 Mar 2000 11:16 am
 Sample : dftpp s092199a
 Misc :
 Quant Time: Mar 3 11:43 2000

Vial: 1
 Operator:
 Inst : GC/MS H
 Multiplr: 1.00
 Quant Results File: temp.re

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : bbbbb
 Last Update : Thu Feb 10 14:38:12 2000
 Response via : Single Level Calibration



(1) Pentachlorophenol

4.99min 0.00

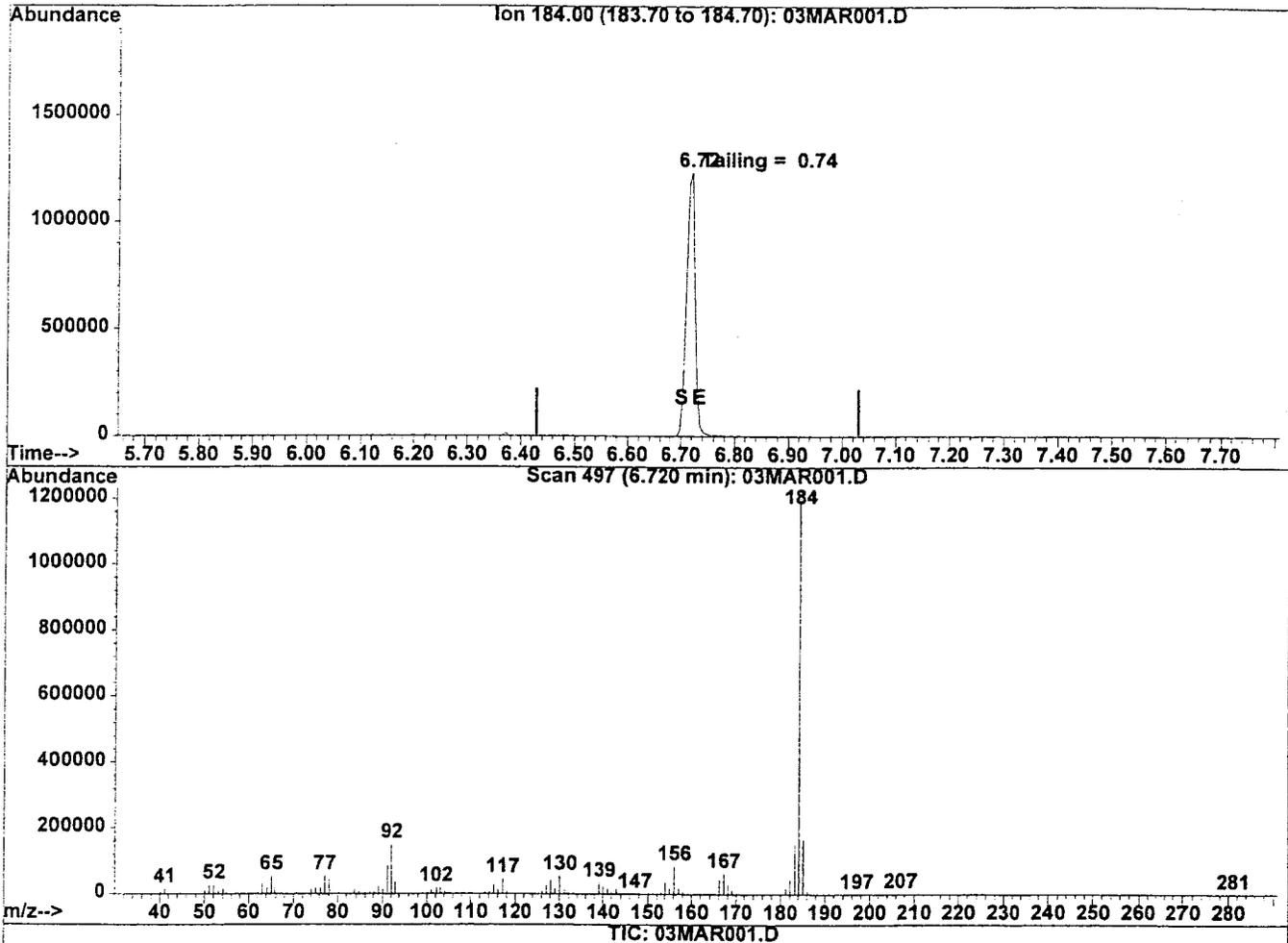
response 293127

Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\000303\03MAR001.D
 Acq On : 3 Mar 2000 11:16 am
 Sample : dftpp s092199a
 Misc :
 Quant Time: Mar 3 11:43 2000

Vial: 1
 Operator:
 Inst : GC/MS H
 Multiplr: 1.00
 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : bbbbb
 Last Update : Thu Feb 10 14:38:12 2000
 Response via : Single Level Calibration



(3) Benzidine

6.72min 0.00

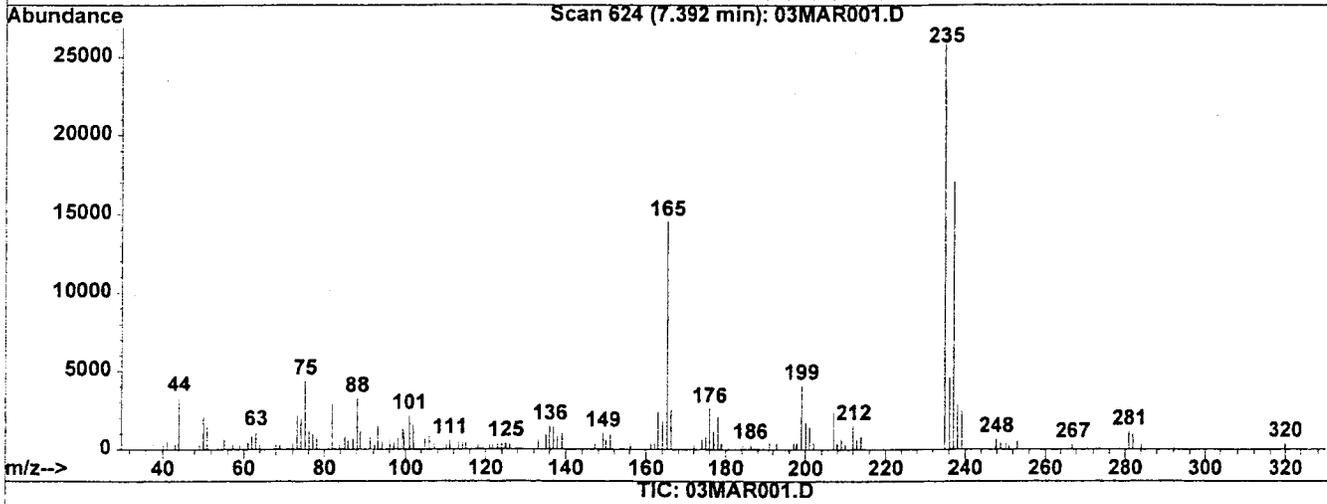
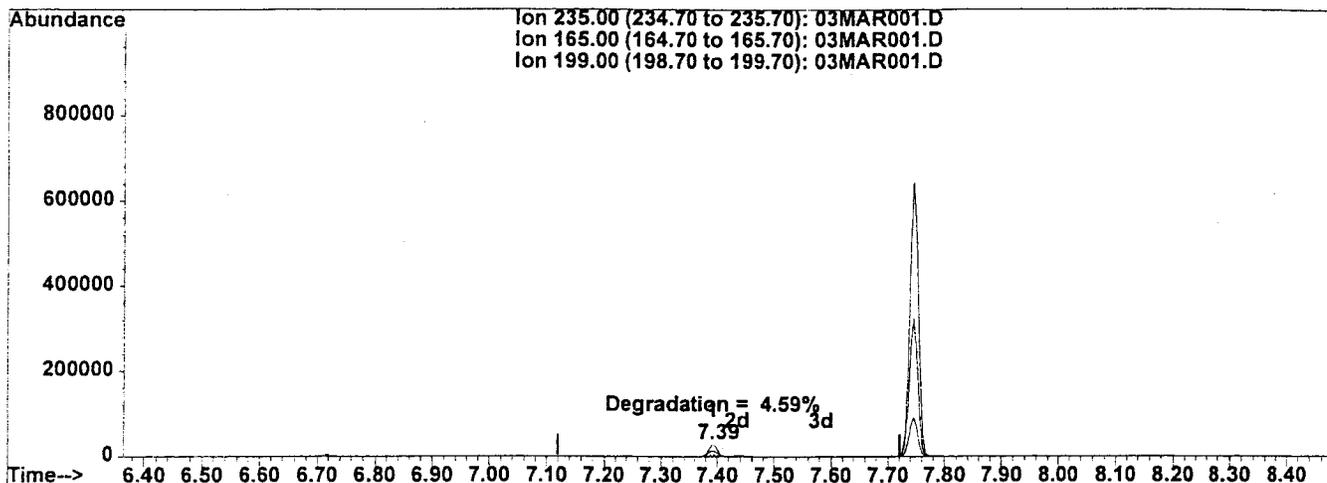
response 1380044

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\000303\03MAR001.D
 Acq On : 3 Mar 2000 11:16 am
 Sample : dftpp s092199a
 Misc :
 Quant Time: Mar 3 11:43 2000

Vial: 1
 Operator:
 Inst : GC/MS H
 Multiplr: 1.00
 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : bbbbb
 Last Update : Thu Feb 10 14:38:12 2000
 Response via : Single Level Calibration



(5) DDD

7.39min 0.00

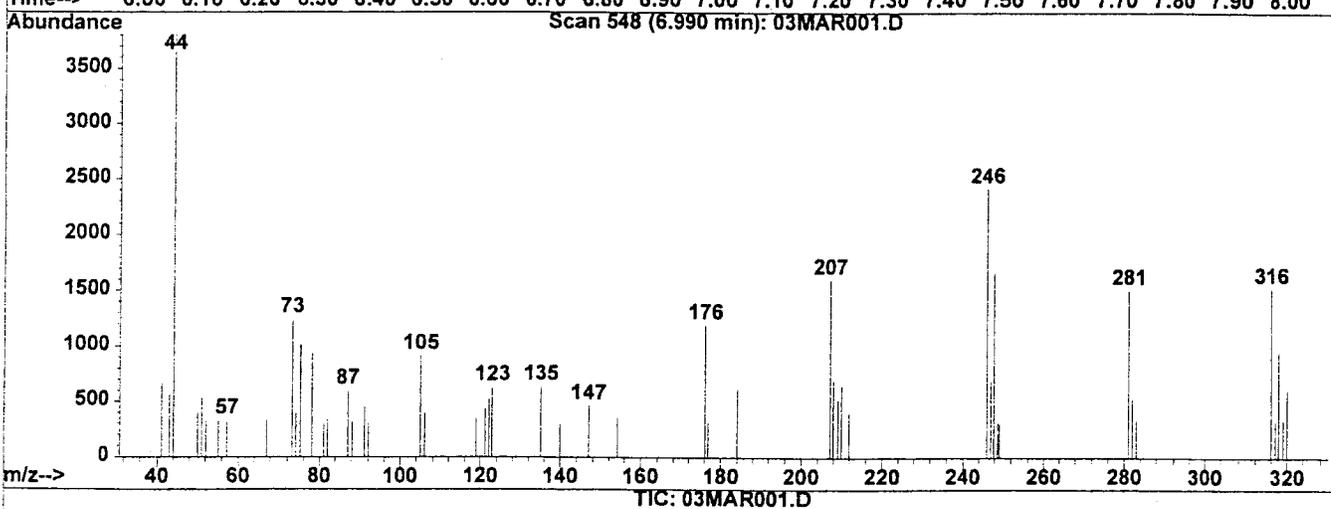
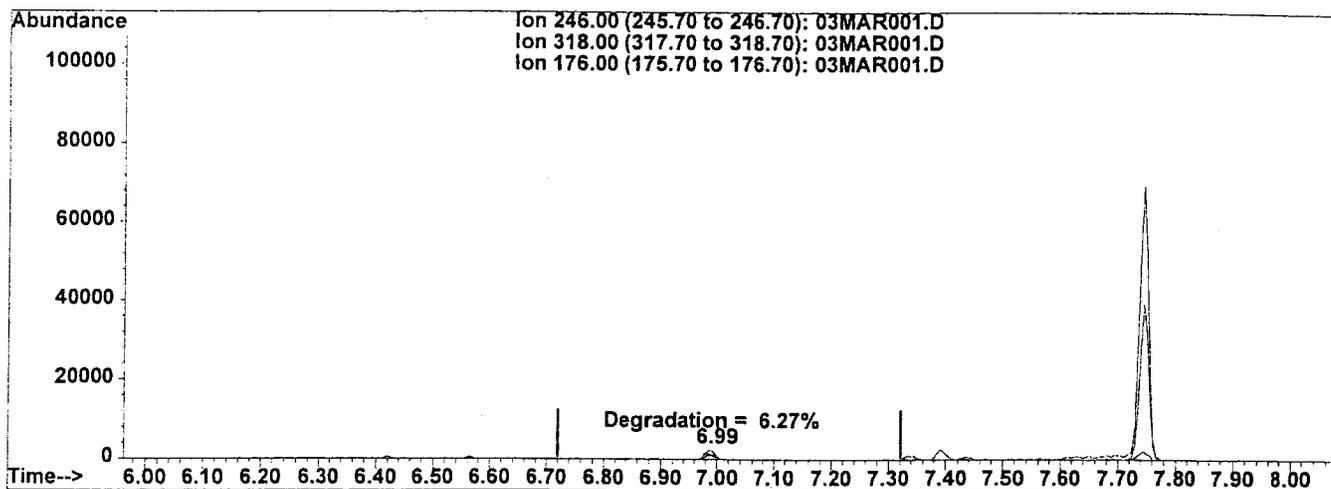
response 28974

Ion	Exp%	Act%
235.00	100	100
165.00	61.80	54.96
199.00	16.70	16.04
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\000303\03MAR001.D
 Acq On : 3 Mar 2000 11:16 am
 Sample : dftpp s092199a
 Misc :
 Quant Time: Mar 3 11:43 2000

Vial: 1
 Operator:
 Inst : GC/MS H
 Multiplr: 1.00
 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : bbbbb
 Last Update : Thu Feb 10 14:38:12 2000
 Response via : Single Level Calibration



(6) DDE

6.99min 0.00

response 2687

Ion	Exp%	Act%
246.00	100	100
318.00	101.70	54.04#
176.00	69.20	45.44#
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\000303\03MAR001.D Vial: 1
Acq On : 3 Mar 2000 11:16 am Operator:
Sample : dftpp s092199a Inst : GC/MS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 3 11:43 2000 Quant Results File: DFTPP.RES

Quant Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : bbbbb
Last Update : Fri Mar 03 11:43:27 2000
Response via : Initial Calibration
DataAcq Meth : DFTPP625

Internal Standards R.T. QIon Response Conc Units Dev(Min)

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
1) Pentachlorophenol	4.99	266	293127	No Calib			
2) DFTPP	5.55	198	325223	165.55	MG/L		94
3) Benzidine	6.72	184	1380044	No Calib			
4) DDT	7.75	235	696714	No Calib			
5) DDD	7.39	235	28974	No Calib			
6) DDE	6.99	246	2687	No Calib			#

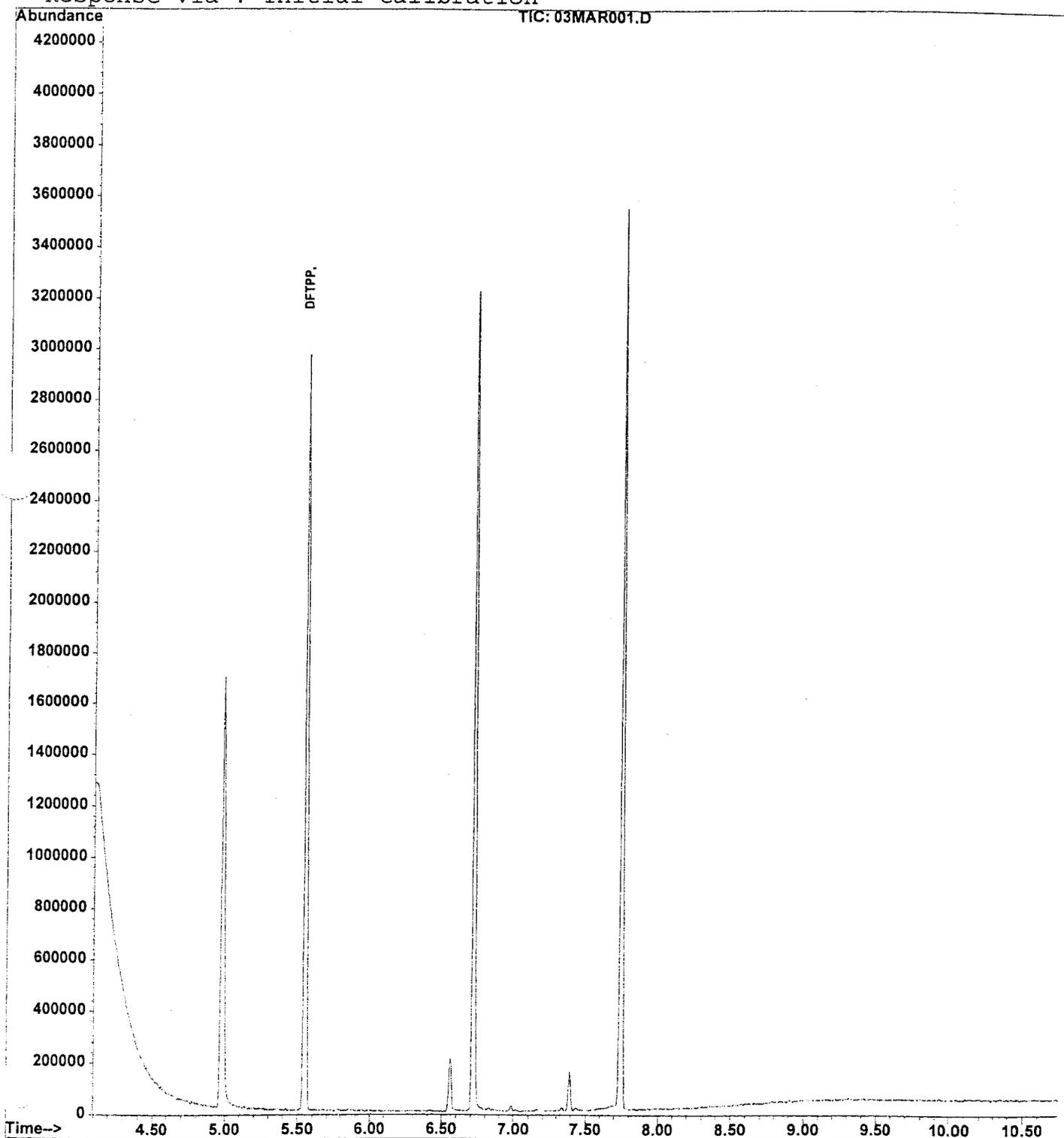
(#) = qualifier out of range (m) = manual integration
03MAR001.D DFTPP.M Fri Mar 03 11:45:42 2000

Data File : C:\HPCHEM\1\DATA\000303\03MAR001.D
Acq On : 3 Mar 2000 11:16 am
Sample : dftpp s092199a
Misc :
MS Integration Params: rteint.p
Quant Time: Mar 3 11:43 2000

Vial: 1
Operator:
Inst : GC/MS H
Multiplr: 1.00

Quant Results File: DFTPP.RES

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : bbbbb
Last Update : Fri Mar 03 11:43:27 2000
Response via : Initial Calibration



Response Factor Report GC/MS H

Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Mon Mar 06 14:39:02 2000
Response via : Initial Calibration

Calibration Files

20 =03MAR006.D 50 =03MAR005.D 80 =03MAR004.D
120 =03MAR003.D 160 =03MAR002.D

Table with columns: Compound, 20, 50, 80, 120, 160, Avg, %RSD. Rows include 1) 1,4-Dichlorobenzene-d, 2) Pyridine, 3) N-Nitrosodimethylamin, etc.

(#) = Out of Range
000303.M

Response Factor Report GC/MS H

Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
 Title : BNA 8270/625 CALIBRATION
 Last Update : Mon Mar 06 14:39:02 2000
 Response via : Initial Calibration

Calibration Files

20 =03MAR006.D 50 =03MAR005.D 80 =03MAR004.D
 120 =03MAR003.D 160 =03MAR002.D

Compound	20	50	80	120	160	Avg	%RSD
42) Dimethyl Phthalate	1.373	1.295	1.267	1.202	1.166	1.260	6.44
43) Acenaphthylene	1.934	1.755	1.631	1.435	1.309	1.613	15.42
44) 3-Nitroaniline	0.217	0.138	0.141	0.189	0.202	0.177	20.23
45) C Acenaphthene	1.219	1.153	1.115	1.035	0.971	1.099	8.86#
46) P 2,4-Dinitrophenol	0.097	0.135	0.154	0.163	0.165	0.143	19.76
47) P 4-Nitrophenol	0.215	0.226	0.235	0.243	0.250	0.234	5.95
48) Dibenzofuran	1.677	1.541	1.473	1.312	1.171	1.434	13.78
49) 2,4-Dinitrotoluene	0.394	0.386	0.392	0.376	0.378	0.385	2.06
50) 2,6-Dinitrotoluene	0.299	0.289	0.289	0.268	0.269	0.283	4.88
51) Diethyl Phthalate	1.386	1.284	1.229	1.105	1.099	1.221	10.00
52) 4-Chlorophenyl-Phenyl	0.625	0.578	0.566	0.518	0.509	0.559	8.53
53) Fluorene	1.359	1.241	1.190	1.091	1.037	1.183	10.71
54) 4-Nitroaniline	0.213	0.205	0.197	0.193	0.193	0.200	4.36
55) Phenanthrene-d10	-----ISTD-----						
56) Azobenzene	1.084	0.957	0.991	0.854	0.753	0.928	13.76
57) 4,6-Dinitro-2-Methylp	0.119	0.135	0.143	0.147	0.147	0.138	8.60
58) C N-Nitrosodiphenylamin	0.606	0.542	0.528	0.485	0.458	0.524	10.89#
SURR2,4,6-Tribromophenol	0.123	0.116	0.119	0.114	0.111	0.117	4.03
59) 4-Bromophenyl-Phenyl	0.253	0.238	0.244	0.229	0.218	0.237	5.64
60) Hexachlorobenzene	0.268	0.250	0.253	0.240	0.230	0.248	5.72
61) C Pentachlorophenol	0.139	0.148	0.154	0.155	0.148	0.149	4.13#
62) Phenanthrene	1.226	1.100	1.064	0.938	0.865	1.039	13.57
63) Anthracene	1.229	1.126	1.069	0.906	0.829	1.032	15.76
64) Di-n-Butyl Phthalate	1.451	1.282	1.185	0.973	0.873	1.153	20.24
65) C Fluoranthene	1.245	1.135	1.077	0.939	0.869	1.053	14.32#
66) Benzidine	0.153	0.163	0.187	0.210	0.235	0.190	17.70
67) Chrysene-d12	-----ISTD-----						
68) Pyrene	1.589	1.473	1.410	1.251	1.127	1.370	13.33
69) SURRp-Terphenyl-d14	1.191	1.106	1.089	0.993	0.916	1.059	10.03
70) Butyl Benzyl Phthalat	0.730	0.715	0.716	0.667	0.630	0.691	6.08
71) 3,3'-Dichlorobenzidin	0.324	0.276	0.289	0.282	0.257	0.285	8.59
72) Benzo (a) Anthracene	1.333	1.273	1.280	1.202	1.143	1.246	5.94
73) Bis(2-Ethylhexyl) Pht	0.991	0.958	0.969	0.920	0.851	0.938	5.87
74) Chrysene	1.244	1.177	1.172	1.096	1.040	1.146	6.90
75) Perylene-d12	-----ISTD-----						
76) C Di-n-Octyl Phthalate	1.929	1.908	1.869	1.734	1.595	1.807	7.79#
77) Benzo (b) Fluoranthen	1.476	1.455	1.534	1.574	1.562	1.520	3.45
78) Benzo (k) Fluoranthen	1.462	1.381	1.306	1.135	1.021	1.261	14.31
79) C Benzo (a) Pyrene	1.324	1.292	1.311	1.268	1.210	1.281	3.50#
80) Indeno (1,2,3-c,d) Py	1.359	1.369	1.411	1.380	1.315	1.367	2.55
81) Dibenz (a,h) Anthrace	1.147	1.150	1.182	1.159	1.103	1.148	2.51

Response Factor Report GC/MS H

Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
 Title : BNA 8270/625 CALIBRATION
 Last Update : Mon Mar 06 14:39:02 2000
 Response via : Initial Calibration

Calibration Files

20 =03MAR006.D 50 =03MAR005.D 80 =03MAR004.D
 120 =03MAR003.D 160 =03MAR002.D

	Compound	20	50	80	120	160	Avg	%RSD
83)	Benzo (g,h,i) Perylen	1.102	1.106	1.129	1.112	1.064	1.103	2.18

Data File : C:\HPCHEM\1\DATA\000303\03MAR002.D

Vial: 2

Acq On : 3 Mar 2000 4:04 pm

Operator:

Sample : bna-160 S030300B

Inst : GC/MS H

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 6 11:29 2000

Quant Results File: 000301.RES

Quant Method : C:\HPCHEM\1\METHODS\000301.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Thu Feb 10 12:03:31 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	5.15	152	731517	40.00	mg/l	-0.07
19) Naphthalene-d8	6.49	136	2792575	40.00	mg/l	-0.08
35) Acenaphthene-d10	8.43	164	1477493	40.00	mg/l	-0.09
55) Phenanthrene-d10	10.07	188	2329727	40.00	mg/l	-0.09
68) Chrysene-d12	13.10	240	1799213	40.00	mg/l	-0.11
76) Perylene-d12	15.41	264	1489393	40.00	mg/l	-0.18

System Monitoring Compounds

4) 2-Fluorophenol	3.94	112	3882999	153.49	mg/l	-0.07
Spiked Amount	100.000		Recovery	=	153.49%	
6) Phenol-d6	4.84	99	4819367	160.62	mg/l	-0.06
Spiked Amount	100.000		Recovery	=	160.62%	
20) Nitrobenzene-d5	5.76	82	4519338	149.92	mg/l	-0.07
Spiked Amount	100.000		Recovery	=	149.92%	
40) 2-Fluorobiphenyl	7.70	172	6399792	127.55	mg/l	-0.08
Spiked Amount	100.000		Recovery	=	127.55%	
59) 2,4,6-Tribromophenol	9.32	330	1033986	168.21	mg/l	-0.08
Spiked Amount	100.000		Recovery	=	168.21%	
70) p-Terphenyl-d14	11.87	244	6593341	122.15	mg/l	-0.09
Spiked Amount	100.000		Recovery	=	122.15%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Pyridine	2.69	52	3386073	154.55	mg/l	99
3) N-Nitrosodimethylamine	2.70	74	2627395	149.31	mg/l	97
5) Aniline	4.86	93	6024295	149.31	mg/l	41
7) Phenol	4.86	94	4960080m	166.31	mg/l	
8) Bis(2-Chloroethyl) Ether	4.93	93	4164323m	163.28	mg/l	
9) 2-Chlorophenol	4.97	128	3798475	161.10	mg/l	99
10) 1,3-Dichlorobenzene	5.11	146	3983046m	145.23	mg/l	
11) 1,4-Dichlorobenzene	5.16	146	3918010	144.62	mg/l	97
12) Benzyl Alcohol	5.33	79	3707789	174.64	mg/l	98
13) 1,2-Dichlorobenzene	5.36	146	3708738	145.73	mg/l	95
14) 2-Methylphenol	5.44	108	3666094m	199.78	mg/l	
15) Bis(2-Chloroisopropyl) Eth	5.47	45	4345553	148.41	mg/l	62
16) 3/4-Methylphenol	5.60	107	4345374m	173.45	mg/l	
17) N-Nitroso-di-n-propylamine	5.65	70	2899260m	175.32	mg/l	
18) Hexachloroethane	5.67	117	1693753	163.39	mg/l	98
21) Nitrobenzene	5.78	77	4269694m	139.37	mg/l	
22) Isophorone	6.03	82	7752309m	160.02	mg/l	
3) 2-Nitrophenol	6.11	139	2143887m	163.43	mg/l	
24) 2,4-Dimethylphenol	6.16	107	3705872	155.64	mg/l	92

(#)=qualifier out of range (m)=manual integration

Data File : C:\HPCHEM\1\DATA\000303\03MAR002.D

Vial: 2

Acq On : 3 Mar 2000 4:04 pm

Operator:

Sample : bna-160 S030300B

Inst : GC/MS H

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 6 11:29 2000

Quant Results File: 000301.RES

Quant Method : C:\HPCHEM\1\METHODS\000301.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Thu Feb 10 12:03:31 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) Benzoic Acid	6.38	105	3362329m	205.43	mg/l	
26) Bis(2-Chloroethoxy) Methan	6.26	93	4473134	143.50	mg/l	97
27) 2,4-Dichlorophenol	6.36	162	2956926m	151.05	mg/l	
28) 1,2,4-Trichlorobenzene	6.45	180	3222166	144.89	mg/l	100
29) Naphthalene	6.52	128	7446435	103.93	mg/l	86
30) 4-Chloroaniline	6.59	127	4507505m	163.32	mg/l	
31) Hexachloro-1,3-Butadiene	6.71	225	1813447	144.75	mg/l	99
32) 4-Chloro-3-Methylphenol	7.12	107	3324164m	162.52	mg/l	
33) 2-Methylnaphthalene	7.27	142	6304259m	133.42	mg/l	
34) 1-Methylnaphthalene	7.39	142	5855247	135.09	mg/l	97
36) Hexachlorocyclopentadiene	7.51	237	1561639	163.89	mg/l	100
37) 2,4,6-Trichlorophenol	7.61	196	2165379m	167.63	mg/l	
38) 2,4,5-Trichlorophenol	7.65	196	2196446	161.97	mg/l	99
39) 2-Chloronaphthalene	7.80	162	5842030	138.15	mg/l	94
41) 2-Nitroaniline	7.96	65	2471235m	171.26	mg/l	
42) Dimethyl Phthalate	8.20	163	6889721m	157.50	mg/l	
43) Acenaphthylene	8.27	152	7738492m	116.53	mg/l	
44) 3-Nitroaniline	8.44	138	1192493	127.56	mg/l	74
45) Acenaphthene	8.48	153	5738963	139.49	mg/l	# 97
46) 2,4-Dinitrophenol	8.54	184	974400	237.45	mg/l	82
47) 4-Nitrophenol	8.61	139	1477199	190.10	mg/l	96
48) Dibenzofuran	8.65	168	6917656m	124.72	mg/l	
49) 2,4-Dinitrotoluene	8.71	165	2233612	185.50	mg/l	87
50) 2,6-Dinitrotoluene	8.28	165	1592068	157.09	mg/l	99
51) Diethyl Phthalate	8.99	149	6497714m	157.10	mg/l	
52) 4-Chlorophenyl-Phenyl Ethe	9.04	204	3005437m	142.54	mg/l	
53) Fluorene	9.04	166	6129451m	137.16	mg/l	
54) 4-Nitroaniline	9.11	138	1140856	122.75	mg/l	97
56) Azobenzene	9.22	77	7019132	122.49	mg/l	74
57) 4,6-Dinitro-2-Methylphenol	9.17	198	1371284	194.91	mg/l	# 13
58) N-Nitrosodiphenylamine	9.19	169	4267123	128.81	mg/l	99
60) 4-Bromophenyl-Phenyl Ether	9.57	248	2035353	147.21	mg/l	99
61) Hexachlorobenzene	9.74	284	2147003	153.85	mg/l	99
62) Pentachlorophenol	9.93	266	1376428	186.39	mg/l	100
63) Phenanthrene	10.10	178	8065380m	124.57	mg/l	
64) Anthracene	10.15	178	7727515	116.61	mg/l	88
65) Di-n-Butyl Phthalate	10.79	149	8132013	119.37	mg/l	91
66) Fluoranthene	11.43	202	8099134	130.63	mg/l	91
67) Benzidine	11.59	184	2186152	188.22	mg/l	99
69) Pyrene	11.68	202	8108153	109.06	mg/l	89
71) Butyl Benzyl Phthalate	12.46	149	4532509	148.81	mg/l	99

(#)=qualifier out of range (m)=manual integration

03MAR002.D 000301.M

Mon Mar 06 11:30:52 2000

Page 2

Data File : C:\HPCHEM\1\DATA\000303\03MAR002.D

Vial: 2

Acq On : 3 Mar 2000 4:04 pm

Operator:

Sample : bna-160 S030300B

Inst : GC/MS H

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 6 11:29 2000

Quant Results File: 000301.RES

Quant Method : C:\HPCHEM\1\METHODS\000301.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Thu Feb 10 12:03:31 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) 3,3'-Dichlorobenzidine	13.07	252	1851780	136.75	mg/l	96
73) Benzo (a) Anthracene	13.08	228	8228062m	139.29	mg/l	
74) Bis(2-Ethylhexyl) Phthalat	13.21	149	6122111	160.82	mg/l	81
75) Chrysene	13.15	228	7486299	135.62	mg/l	98
77) Di-n-Octyl Phthalate	14.15	149	9503851	149.04	mg/l	98
78) Benzo (b) Fluoranthene	14.77	252	9306673m	170.24	mg/l	
79) Benzo (k) Fluoranthene	14.81	252	6084078	110.42	mg/l	97
80) Benzo (a) Pyrene	15.34	252	7209392	146.14	mg/l	97
81) Indeno (1,2,3-c,d) Pyrene	17.57	276	7832140m	164.25	mg/l	
82) Dibenz (a,h) Anthracene	17.63	278	6569127	163.82	mg/l	100
83) Benzo (g,h,i) Perylene	18.11	276	6338273	160.06	mg/l	86

(#) = qualifier out of range (m) = manual integration

03MAR002.D 000301.M

Mon Mar 06 11:30:57 2000

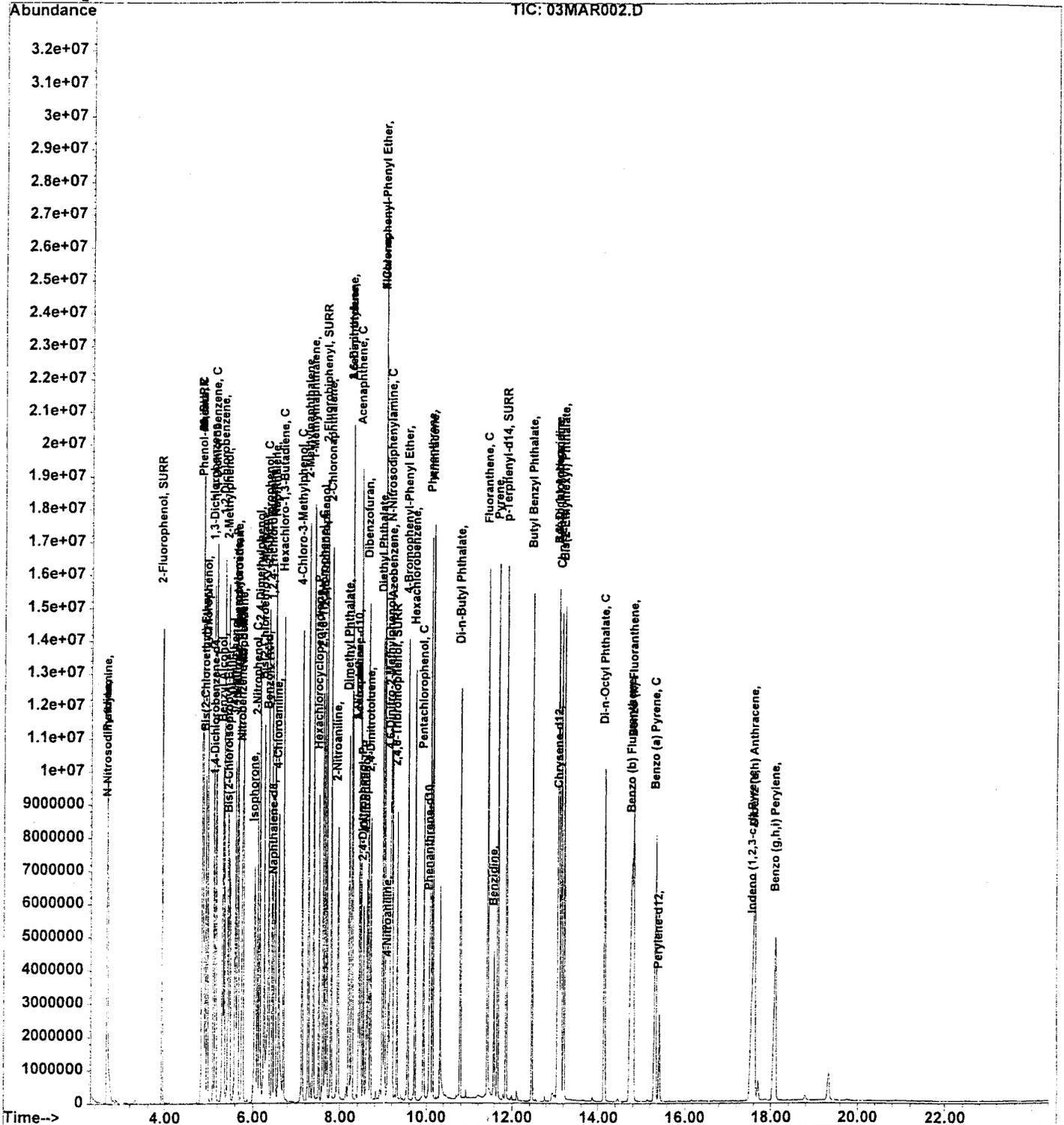
Page 3

Data File : C:\HPCHEM\1\DATA\000303\03MAR002.D
Acq On : 3 Mar 2000 4:04 pm
Sample : bna-160 S030300B
Misc :
MS Integration Params: rteint.p
Quant Time: Mar 6 11:29 2000

Vial: 2
Operator:
Inst : GC/MS H
Multiplr: 1.00

Quant Results File: 000301.RES

Method : C:\HPCHEM\1\METHODS\000301.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\000303\03MAR003.D

Vial: 3

Acq On : 3 Mar 2000 4:39 pm

Operator:

Sample : bna-120 S030300C

Inst : GC/MS H

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 6 11:40 2000

Quant Results File: 000301.RES

Quant Method : C:\HPCHEM\1\METHODS\000301.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Thu Feb 10 12:03:31 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	5.14	152	792445	40.00	mg/l	-0.08
19) Naphthalene-d8	6.49	136	2975294	40.00	mg/l	-0.08
35) Acenaphthene-d10	8.43	164	1595625	40.00	mg/l	-0.09
55) Phenanthrene-d10	10.06	188	2433378	40.00	mg/l	-0.09
68) Chrysene-d12	13.10	240	1828727	40.00	mg/l	-0.12
76) Perylene-d12	15.41	264	1503918	40.00	mg/l	-0.18

System Monitoring Compounds

4) 2-Fluorophenol	3.93	112	3301751	120.48	mg/l	-0.07
Spiked Amount	100.000		Recovery	=	120.48%	
6) Phenol-d6	4.84	99	4088759	125.79	mg/l	-0.07
Spiked Amount	100.000		Recovery	=	125.79%	
20) Nitrobenzene-d5	5.75	82	3708700	115.47	mg/l	-0.08
Spiked Amount	100.000		Recovery	=	115.47%	
0) 2-Fluorobiphenyl	7.69	172	5594048	103.24	mg/l	-0.08
Spiked Amount	100.000		Recovery	=	103.24%	
59) 2,4,6-Tribromophenol	9.32	330	830821	129.40	mg/l	-0.09
Spiked Amount	100.000		Recovery	=	129.40%	
70) p-Terphenyl-d14	11.86	244	5449694	99.34	mg/l	-0.09
Spiked Amount	100.000		Recovery	=	99.34%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Pyridine	2.67	52	2794768m	117.76	mg/l	
3) N-Nitrosodimethylamine	2.68	74	2198727	115.34	mg/l	94
5) Aniline	4.85	93	5221067m	119.45	mg/l	
7) Phenol	4.85	94	4174326m	129.20	mg/l	
8) Bis(2-Chloroethyl) Ether	4.92	93	3677909m	133.12	mg/l	
9) 2-Chlorophenol	4.97	128	3187823	124.80	mg/l	98
10) 1,3-Dichlorobenzene	5.11	146	3402535m	114.52	mg/l	
11) 1,4-Dichlorobenzene	5.16	146	3345390	113.99	mg/l	98
12) Benzyl Alcohol	5.32	79	3087256	134.23	mg/l	98
13) 1,2-Dichlorobenzene	5.35	146	3196940	115.96	mg/l	97
14) 2-Methylphenol	5.44	108	3011322m	151.48	mg/l	
15) Bis(2-Chloroisopropyl) Eth	5.47	45	3560678	112.26	mg/l	63
16) 3/4-Methylphenol	5.60	107	3438873	126.72	mg/l	# 48
17) N-Nitroso-di-n-propylamine	5.65	70	2332206	130.19	mg/l	98
18) Hexachloroethane	5.66	117	1430645	127.40	mg/l	99
21) Nitrobenzene	5.77	77	3550878	108.79	mg/l	97
22) Isophorone	6.03	82	6317426m	122.40	mg/l	
3) 2-Nitrophenol	6.10	139	1788002	127.93	mg/l	83
24) 2,4-Dimethylphenol	6.15	107	3219126	126.90	mg/l	94

(#)=qualifier out of range (m)=manual integration

Data File : C:\HPCHEM\1\DATA\000303\03MAR003.D

Vial: 3

Acq On : 3 Mar 2000 4:39 pm

Operator:

Sample : bna-120 S030300C

Inst : GC/MS H

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 6 11:40 2000

Quant Results File: 000301.RES

Quant Method : C:\HPCHEM\1\METHODS\000301.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Thu Feb 10 12:03:31 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) Benzoic Acid	6.36	105	2692352	154.39	mg/l	# 38
26) Bis(2-Chloroethoxy) Methan	6.26	93	3885161m	116.98	mg/l	
27) 2,4-Dichlorophenol	6.36	162	2479659	118.89	mg/l	99
28) 1,2,4-Trichlorobenzene	6.44	180	2734160	115.39	mg/l	100
29) Naphthalene	6.51	128	6701179	87.78	mg/l	90
30) 4-Chloroaniline	6.59	127	3610504	122.78	mg/l	98
31) Hexachloro-1,3-Butadiene	6.70	225	1544760	115.73	mg/l	99
32) 4-Chloro-3-Methylphenol	7.12	107	2648492	121.54	mg/l	98
33) 2-Methylnaphthalene	7.26	142	5392530m	107.11	mg/l	
34) 1-Methylnaphthalene	7.38	142	5027624	108.87	mg/l	96
36) Hexachlorocyclopentadiene	7.51	237	1267751	123.20	mg/l	100
37) 2,4,6-Trichlorophenol	7.60	196	1779033m	127.52	mg/l	
38) 2,4,5-Trichlorophenol	7.64	196	1837279	125.45	mg/l	99
39) 2-Chloronaphthalene	7.80	162	4992967	109.33	mg/l	96
41) 2-Nitroaniline	7.95	65	1980860	127.11	mg/l	100
42) Dimethyl Phthalate	8.20	163	5751640m	121.75	mg/l	
43) Acenaphthylene	8.26	152	6869496	95.78	mg/l	92
44) 3-Nitroaniline	8.43	138	903288	89.47	mg/l	75
45) Acenaphthene	8.47	153	4955564	111.53	mg/l	# 96
46) 2,4-Dinitrophenol	8.53	184	780885	176.20	mg/l	82
47) 4-Nitrophenol	8.61	139	1163290	138.62	mg/l	96
48) Dibenzofuran	8.65	168	6278322	104.82	mg/l	93
49) 2,4-Dinitrotoluene	8.70	165	1802047	138.58	mg/l	86
50) 2,6-Dinitrotoluene	8.27	165	1282070	117.14	mg/l	98
51) Diethyl Phthalate	8.98	149	5289954	118.43	mg/l	98
52) 4-Chlorophenyl-Phenyl Ethe	9.03	204	2477344	108.79	mg/l	97
53) Fluorene	9.03	166	5220668	108.18	mg/l	100
54) 4-Nitroaniline	9.11	138	921514m	91.81	mg/l	
56) Azobenzene	9.21	77	6234519	104.16	mg/l	78
57) 4,6-Dinitro-2-Methylphenol	9.16	198	1074000	146.15	mg/l	# 17
58) N-Nitrosodiphenylamine	9.18	169	3538656	102.27	mg/l	98
60) 4-Bromophenyl-Phenyl Ether	9.57	248	1674196	115.93	mg/l	99
61) Hexachlorobenzene	9.73	284	1751393	120.16	mg/l	99
62) Pentachlorophenol	9.93	266	1128363	146.29	mg/l	99
63) Phenanthrene	10.10	178	6848719m	101.27	mg/l	
64) Anthracene	10.15	178	6614318	95.56	mg/l	91
65) Di-n-Butyl Phthalate	10.79	149	7102479	99.81	mg/l	93
66) Fluoranthene	11.43	202	6855056	105.85	mg/l	94
67) Benzidine	11.58	184	1533510	126.41	mg/l	99
69) Pyrene	11.68	202	6865839	90.86	mg/l	92
71) Butyl Benzyl Phthalate	12.45	149	3656705	118.12	mg/l	99

(#)=qualifier out of range (m)=manual integration

Data File : C:\HPCHEM\1\DATA\000303\03MAR003.D
Acq On : 3 Mar 2000 4:39 pm
Sample : bna-120 S030300C
Misc :
MS Integration Params: rteint.p
Quant Time: Mar 6 11:40 2000

Vial: 3
Operator:
Inst : GC/MS H
Multiplr: 1.00

Quant Results File: 000301.RES

Quant Method : C:\HPCHEM\1\METHODS\000301.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) 3,3'-Dichlorobenzidine	13.06	252	1544507	112.22	mg/l	96
73) Benzo (a) Anthracene	13.08	228	6593405m	109.81	mg/l	
74) Bis(2-Ethylhexyl) Phthalat	13.21	149	5049180	130.50	mg/l	84
75) Chrysene	13.14	228	6012252	107.16	mg/l	99
77) Di-n-Octyl Phthalate	14.15	149	7824143	121.51	mg/l	98
78) Benzo (b) Fluoranthene	14.76	252	7102169m	128.66	mg/l	
79) Benzo (k) Fluoranthene	14.79	252	5119618	92.02	mg/l	98
80) Benzo (a) Pyrene	15.32	252	5719951	114.83	mg/l	98
81) Indeno (1,2,3-c,d) Pyrene	17.55	276	6224673	129.28	mg/l	97
82) Dibenz (a,h) Anthracene	17.61	278	5229644	129.16	mg/l	100
83) Benzo (g,h,i) Perylene	18.10	276	5018129	125.50	mg/l	86

(#) = qualifier out of range (m) = manual integration

03MAR003.D 000301.M Mon Mar 06 11:41:37 2000

Page 3

Data File : C:\HPCHEM\1\DATA\000303\03MAR004.D

Vial: 4

Acq On : 3 Mar 2000 5:13 pm

Operator:

Sample : bna-80 S030300D

Inst : GC/MS H

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 6 11:54 2000

Quant Results File: 000301.RES

Quant Method : C:\HPCHEM\1\METHODS\000301.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Thu Feb 10 12:03:31 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.14	152	760153	40.00	mg/l	-0.08
19) Naphthalene-d8	6.49	136	2796417	40.00	mg/l	-0.08
35) Acenaphthene-d10	8.43	164	1522506	40.00	mg/l	-0.09
55) Phenanthrene-d10	10.06	188	2329141	40.00	mg/l	-0.09
68) Chrysene-d12	13.09	240	1755350	40.00	mg/l	-0.13
76) Perylene-d12	15.40	264	1422596	40.00	mg/l	-0.19

System Monitoring Compounds

4) 2-Fluorophenol	3.92	112	2246213	85.45	mg/l	-0.08
Spiked Amount	100.000		Recovery	=	85.45%	
6) Phenol-d6	4.82	99	2696857	86.49	mg/l	-0.08
Spiked Amount	100.000		Recovery	=	86.49%	
20) Nitrobenzene-d5	5.74	82	2442731	80.92	mg/l	-0.09
Spiked Amount	100.000		Recovery	=	80.92%	
40) 2-Fluorobiphenyl	7.69	172	3948833	76.38	mg/l	-0.09
Spiked Amount	100.000		Recovery	=	76.38%	
59) 2,4,6-Tribromophenol	9.31	330	555367m	90.37	mg/l	-0.09
Spiked Amount	100.000		Recovery	=	90.37%	
70) p-Terphenyl-d14	11.86	244	3823015	72.60	mg/l	-0.10
Spiked Amount	100.000		Recovery	=	72.60%	

Target Compounds

						Qvalue
2) Pyridine	2.64	52	1899245m	83.42	mg/l	
3) N-Nitrosodimethylamine	2.66	74	1456204	79.64	mg/l	94
5) Aniline	4.85	93	3254326m	77.62	mg/l	
7) Phenol	4.84	94	2866203m	92.48	mg/l	
8) Bis(2-Chloroethyl) Ether	4.92	93	2356577m	88.92	mg/l	
9) 2-Chlorophenol	4.96	128	2107362	86.01	mg/l	99
10) 1,3-Dichlorobenzene	5.10	146	2328158m	81.69	mg/l	
11) 1,4-Dichlorobenzene	5.16	146	2285520	81.18	mg/l	100
12) Benzyl Alcohol	5.31	79	2002935	90.78	mg/l	98
13) 1,2-Dichlorobenzene	5.35	146	2173332	82.18	mg/l	98
14) 2-Methylphenol	5.43	108	2002775m	105.03	mg/l	
15) Bis(2-Chloroisopropyl) Eth	5.46	45	2434188	80.00	mg/l	62
16) 3/4-Methylphenol	5.59	107	2338136m	89.82	mg/l	
17) N-Nitroso-di-n-propylamine	5.63	70	1567227	91.20	mg/l	98
18) Hexachloroethane	5.66	117	961860	89.29	mg/l	99
21) Nitrobenzene	5.77	77	2424672	79.04	mg/l	99
22) Isophorone	6.02	82	4085758	84.22	mg/l	84
23) 2-Nitrophenol	6.10	139	1160704	88.36	mg/l	84
24) 2,4-Dimethylphenol	6.14	107	2098105	88.00	mg/l	92

(#)= qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\000303\03MAR004.D

Vial: 4

Acq On : 3 Mar 2000 5:13 pm

Operator:

Sample : bna-80 S030300D

Inst : GC/MS H

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 6 11:54 2000

Quant Results File: 000301.RES

Quant Method : C:\HPCHEM\1\METHODS\000301.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Thu Feb 10 12:03:31 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) Benzoic Acid	6.33	105	1743786	106.39	mg/l #	31
26) Bis(2-Chloroethoxy) Methan	6.25	93	2574636	82.48	mg/l	99
27) 2,4-Dichlorophenol	6.35	162	1639976	83.66	mg/l	99
28) 1,2,4-Trichlorobenzene	6.44	180	1800153	80.83	mg/l	99
29) Naphthalene	6.51	128	5146734	71.73	mg/l	96
30) 4-Chloroaniline	6.59	127	2096153m	75.84	mg/l	
31) Hexachloro-1,3-Butadiene	6.70	225	1024201	81.64	mg/l	100
32) 4-Chloro-3-Methylphenol	7.11	107	1832213	89.46	mg/l	100
33) 2-Methylnaphthalene	7.26	142	3760968m	79.48	mg/l	
34) 1-Methylnaphthalene	7.38	142	3452584	79.55	mg/l	96
36) Hexachlorocyclopentadiene	7.51	237	697738	71.06	mg/l	100
37) 2,4,6-Trichlorophenol	7.60	196	1139146m	85.58	mg/l	
38) 2,4,5-Trichlorophenol	7.64	196	1214810	86.93	mg/l	99
39) 2-Chloronaphthalene	7.79	162	3410200	78.26	mg/l	98
41) 2-Nitroaniline	7.95	65	1302639	87.60	mg/l	99
42) Dimethyl Phthalate	8.19	163	3856720	85.56	mg/l	99
43) Acenaphthylene	8.26	152	4966119	72.57	mg/l	96
44) 3-Nitroaniline	8.42	138	430536	44.69	mg/l	72
45) Acenaphthene	8.47	153	3395749	80.10	mg/l	96
46) 2,4-Dinitrophenol	8.52	184	467983	110.67	mg/l	80
47) 4-Nitrophenol	8.60	139	715246	89.32	mg/l	94
48) Dibenzofuran	8.64	168	4484384	78.46	mg/l	96
49) 2,4-Dinitrotoluene	8.69	165	1192756	96.13	mg/l	87
50) 2,6-Dinitrotoluene	8.26	165	880144	84.28	mg/l	97
51) Diethyl Phthalate	8.98	149	3742376	87.81	mg/l	99
52) 4-Chlorophenyl-Phenyl Ethe	9.03	204	1722470	79.27	mg/l	98
53) Fluorene	9.03	166	3622163	78.66	mg/l	99
54) 4-Nitroaniline	9.10	138	599097m	62.56	mg/l	
56) Azobenzene	9.21	77	4614607m	80.55	mg/l	
57) 4,6-Dinitro-2-Methylphenol	9.15	198	667670	94.92	mg/l #	12
58) N-Nitrosodiphenylamine	9.17	169	2458878	74.25	mg/l	98
60) 4-Bromophenyl-Phenyl Ether	9.57	248	1135153	82.12	mg/l	99
61) Hexachlorobenzene	9.73	284	1177855	84.42	mg/l	99
62) Pentachlorophenol	9.92	266	718065	97.26	mg/l	99
63) Phenanthrene	10.09	178	4956226m	76.57	mg/l	
64) Anthracene	10.14	178	4980062	75.17	mg/l	96
65) Di-n-Butyl Phthalate	10.78	149	5520142	81.05	mg/l	97
66) Fluoranthene	11.42	202	5016721	80.93	mg/l	98
67) Benzidine	11.58	184	870574	74.97	mg/l	99
69) Pyrene	11.67	202	4950349	68.25	mg/l	96
71) Butyl Benzyl Phthalate	12.45	149	2512009	84.54	mg/l	99

(#)=qualifier out of range (m)=manual integration

03MAR004.D 000301.M Mon Mar 06 11:55:47 2000

Page 2

Data File : C:\HPCHEM\1\DATA\000303\03MAR004.D

Vial: 4

Acq On : 3 Mar 2000 5:13 pm

Operator:

Sample : bna-80 S030300D

Inst : GC/MS H

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 6 11:54 2000

Quant Results File: 000301.RES

Quant Method : C:\HPCHEM\1\METHODS\000301.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Thu Feb 10 12:03:31 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) 3,3'-Dichlorobenzidine	13.06	252	1013307	76.70	mg/l	96
73) Benzo (a) Anthracene	13.07	228	4494873m	77.99	mg/l	
74) Bis(2-Ethylhexyl) Phthalat	13.20	149	3403097	91.63	mg/l	85
75) Chrysene	13.13	228	4113455	76.38	mg/l	99
77) Di-n-Octyl Phthalate	14.14	149	5318117	87.31	mg/l	98
78) Benzo (b) Fluoranthene	14.74	252	4364000m	83.58	mg/l	
79) Benzo (k) Fluoranthene	14.78	252	3717126	70.63	mg/l	97
80) Benzo (a) Pyrene	15.31	252	3729661	79.15	mg/l	98
81) Indeno (1,2,3-c,d) Pyrene	17.53	276	4013396m	88.12	mg/l	
82) Dibenz (a,h) Anthracene	17.59	278	3362202	87.78	mg/l	100
83) Benzo (g,h,i) Perylene	18.07	276	3212836	84.94	mg/l	87

(#) = qualifier out of range (m) = manual integration

03MAR004.D 000301.M

Mon Mar 06 11:55:51 2000

Page 3

Data File : C:\HPCHEM\1\DATA\000303\03MAR005.D
 Acq On : 3 Mar 2000 5:47 pm
 Sample : bna-50 S030300E
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Mar 6 12:26 2000

Vial: 5
 Operator:
 Inst : GC/MS H
 Multiplr: 1.00

Quant Results File: 000301.RES

Quant Method : C:\HPCHEM\1\METHODS\000301.M (RTE Integrator)
 Title : BNA 8270/625 CALIBRATION
 Last Update : Thu Feb 10 12:03:31 2000
 Response via : Initial Calibration
 DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.14	152	776879	40.00	mg/l	-0.08
19) Naphthalene-d8	6.48	136	2851475	40.00	mg/l	-0.09
35) Acenaphthene-d10	8.43	164	1597782	40.00	mg/l	-0.09
55) Phenanthrene-d10	10.06	188	2475239	40.00	mg/l	-0.09
68) Chrysene-d12	13.09	240	1877764	40.00	mg/l	-0.13
76) Perylene-d12	15.40	264	1483205	40.00	mg/l	-0.20

System Monitoring Compounds

4) 2-Fluorophenol	3.92	112	1441706	53.66	mg/l	-0.09
Spiked Amount	100.000		Recovery	=	53.66%	
6) Phenol-d6	4.82	99	1738470	54.56	mg/l	-0.09
Spiked Amount	100.000		Recovery	=	54.56%	
20) Nitrobenzene-d5	5.74	82	1589934	51.65	mg/l	-0.09
Spiked Amount	100.000		Recovery	=	51.65%	
0) 2-Fluorobiphenyl	7.68	172	2655898	48.95	mg/l	-0.09
Spiked Amount	100.000		Recovery	=	48.95%	
59) 2,4,6-Tribromophenol	9.31	330	360213	55.16	mg/l	-0.10
Spiked Amount	100.000		Recovery	=	55.16%	
70) p-Terphenyl-d14	11.86	244	2594958	46.07	mg/l	-0.10
Spiked Amount	100.000		Recovery	=	46.07%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Pyridine	2.64	52	1238989m	53.25	mg/l	
3) N-Nitrosodimethylamine	2.65	74	947736	50.71	mg/l	94
5) Aniline	4.85	93	1981233	46.24	mg/l	88
7) Phenol	4.83	94	1858881	58.69	mg/l	96
8) Bis(2-Chloroethyl) Ether	4.91	93	1486610m	54.88	mg/l	
9) 2-Chlorophenol	4.96	128	1358638	54.26	mg/l	99
10) 1,3-Dichlorobenzene	5.10	146	1497963m	51.43	mg/l	
11) 1,4-Dichlorobenzene	5.15	146	1490022	51.79	mg/l	99
12) Benzyl Alcohol	5.30	79	1297200	57.53	mg/l	98
13) 1,2-Dichlorobenzene	5.34	146	1417360	52.44	mg/l	99
14) 2-Methylphenol	5.43	108	1279577m	65.66	mg/l	
15) Bis(2-Chloroisopropyl) Eth	5.46	45	1612719	51.86	mg/l	61
16) 3/4-Methylphenol	5.58	107	1501641	56.44	mg/l	# 48
17) N-Nitroso-di-n-propylamine	5.61	70	1010563	57.54	mg/l	98
18) Hexachloroethane	5.66	117	618197	56.15	mg/l	98
21) Nitrobenzene	5.76	77	1612236	51.54	mg/l	98
22) Isophorone	6.01	82	2666498	53.90	mg/l	84
23) 2-Nitrophenol	6.09	139	743175	55.48	mg/l	85
24) 2,4-Dimethylphenol	6.14	107	1330478	54.72	mg/l	91

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\000303\03MAR005.D
 Acq On : 3 Mar 2000 5:47 pm
 Sample : bna-50 S030300E
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Mar 6 12:26 2000

Vial: 5
 Operator:
 Inst : GC/MS H
 Multiplr: 1.00

Quant Results File: 000301.RE

Quant Method : C:\HPCHEM\1\METHODS\000301.M (RTE Integrator)
 Title : BNA 8270/625 CALIBRATION
 Last Update : Thu Feb 10 12:03:31 2000
 Response via : Initial Calibration
 DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) Benzoic Acid	6.29	105	1069315	63.98	mg/l #	22
26) Bis(2-Chloroethoxy) Methan	6.25	93	1689850	53.09	mg/l	99
27) 2,4-Dichlorophenol	6.34	162	1058837	52.97	mg/l	99
28) 1,2,4-Trichlorobenzene	6.44	180	1154517	50.84	mg/l	100
29) Naphthalene	6.50	128	3579966	48.93	mg/l	99
30) 4-Chloroaniline	6.59	127	1107969m	39.32	mg/l	
31) Hexachloro-1,3-Butadiene	6.70	225	661391	51.70	mg/l	99
32) 4-Chloro-3-Methylphenol	7.11	107	1199867	57.45	mg/l	99
33) 2-Methylnaphthalene	7.25	142	2502287m	51.86	mg/l	
34) 1-Methylnaphthalene	7.37	142	2309709	52.19	mg/l	96
36) Hexachlorocyclopentadiene	7.50	237	378614	36.74	mg/l	99
37) 2,4,6-Trichlorophenol	7.59	196	725677m	51.95	mg/l	
38) 2,4,5-Trichlorophenol	7.63	196	773697	52.76	mg/l	98
39) 2-Chloronaphthalene	7.79	162	2264185	49.51	mg/l	100
41) 2-Nitroaniline	7.94	65	858057	54.99	mg/l	97
42) Dimethyl Phthalate	8.18	163	2586960	54.69	mg/l	99
43) Acenaphthylene	8.25	152	3505434	48.81	mg/l	99
44) 3-Nitroaniline	8.41	138	275232m	27.23	mg/l	
45) Acenaphthene	8.46	153	2301949	51.74	mg/l	94
46) 2,4-Dinitrophenol	8.51	184	269667	60.77	mg/l	82
47) 4-Nitrophenol	8.59	139	450821	53.65	mg/l	93
48) Dibenzofuran	8.64	168	3076973	51.30	mg/l	98
49) 2,4-Dinitrotoluene	8.69	165	771707	59.26	mg/l	89
50) 2,6-Dinitrotoluene	8.26	165	577564m	52.70	mg/l	
51) Diethyl Phthalate	8.97	149	2564186	57.33	mg/l	98
52) 4-Chlorophenyl-Phenyl Ethe	9.02	204	1155207	50.66	mg/l	100
53) Fluorene	9.02	166	2477973	51.28	mg/l	99
54) 4-Nitroaniline	9.09	138	409041m	40.70	mg/l	
56) Azobenzene	9.20	77	2960728	48.63	mg/l	81
57) 4,6-Dinitro-2-Methylphenol	9.14	198	417690	55.88	mg/l #	12
58) N-Nitrosodiphenylamine	9.17	169	1677448	47.66	mg/l	95
60) 4-Bromophenyl-Phenyl Ether	9.56	248	737127	50.18	mg/l	100
61) Hexachlorobenzene	9.72	284	772330	52.09	mg/l	99
62) Pentachlorophenol	9.92	266	456828	58.23	mg/l	99
63) Phenanthrene	10.09	178	3404979m	49.50	mg/l	
64) Anthracene	10.14	178	3482806	49.47	mg/l	98
65) Di-n-Butyl Phthalate	10.78	149	3967732	54.82	mg/l	99
66) Fluoranthene	11.42	202	3513178	53.33	mg/l	99
67) Benzidine	11.57	184	505789	40.99	mg/l	98
69) Pyrene	11.67	202	3458082	44.57	mg/l	98
71) Butyl Benzyl Phthalate	12.45	149	1679320	52.83	mg/l	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\000303\03MAR005.D

Acq On : 3 Mar 2000 5:47 pm

Sample : bna-50 S030300E

Misc :

MS Integration Params: rteint.p

Quant Time: Mar 6 12:26 2000

Vial: 5

Operator:

Inst : GC/MS H

Multiplr: 1.00

Quant Results File: 000301.RES

Quant Method : C:\HPCHEM\1\METHODS\000301.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Thu Feb 10 12:03:31 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) 3,3'-Dichlorobenzidine	13.05	252	647162	45.79	mg/l	96
73) Benzo (a) Anthracene	13.07	228	2988204m	48.47	mg/l	
74) Bis(2-Ethylhexyl) Phthalat	13.20	149	2247505	56.57	mg/l	85
75) Chrysene	13.12	228	2761817	47.94	mg/l	98
77) Di-n-Octyl Phthalate	14.13	149	3537771	55.71	mg/l	99
78) Benzo (b) Fluoranthene	14.72	252	2698300m	49.56	mg/l	
79) Benzo (k) Fluoranthene	14.77	252	2559628	46.65	mg/l	100
80) Benzo (a) Pyrene	15.29	252	2394539	48.74	mg/l	97
81) Indeno (1,2,3-c,d) Pyrene	17.51	276	2538000m	53.45	mg/l	
82) Dibenz (a,h) Anthracene	17.57	278	2131309	53.37	mg/l	100
83) Benzo (g,h,i) Perylene	18.05	276	2050029	51.98	mg/l	87

(#) = qualifier out of range (m) = manual integration

03MAR005.D 000301.M

Mon Mar 06 12:27:27 2000

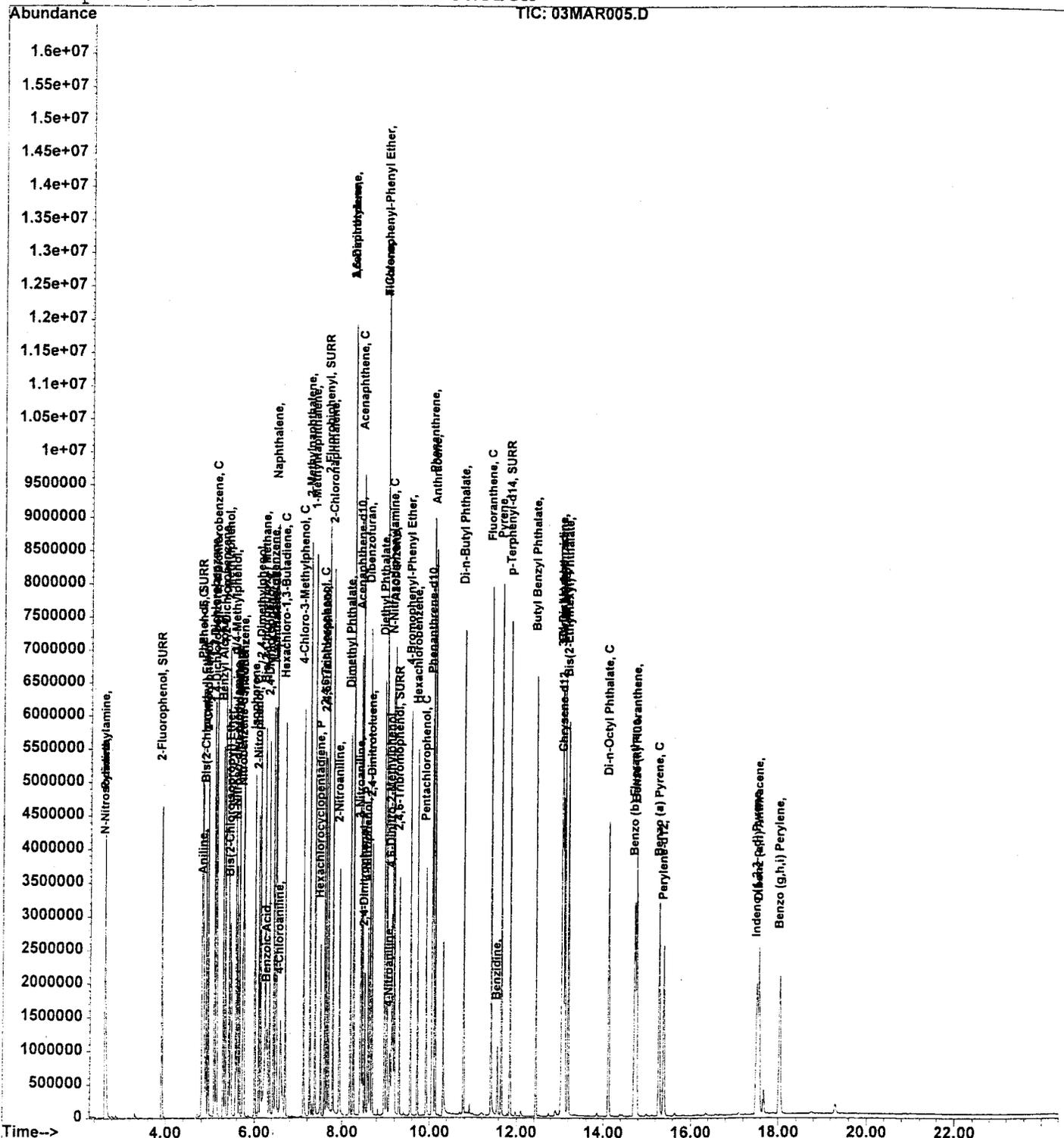
Page 3

Data File : C:\HPCHEM\1\DATA\000303\03MAR005.D
Acq On : 3 Mar 2000 5:47 pm
Sample : bna-50 S030300E
Misc :
MS Integration Params: rteint.p
Quant Time: Mar 6 12:26 2000

Vial: 5
Operator:
Inst : GC/MS H
Multiplr: 1.00

Quant Results File: 000301.RES

Method : C:\HPCHEM\1\METHODS\000301.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\000303\03MAR006.D

Vial: 6

Acq On : 3 Mar 2000 6:20 pm

Operator:

Sample : bna-20 S030300F

Inst : GC/MS H

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 6 14:21 2000

Quant Results File: 000301.RES

Quant Method : C:\HPCHEM\1\METHODS\000301.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Thu Feb 10 12:03:31 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	5.13	152	809108	40.00	mg/l	-0.09
19) Naphthalene-d8	6.48	136	2934320	40.00	mg/l	-0.09
35) Acenaphthene-d10	8.42	164	1628200	40.00	mg/l	-0.09
55) Phenanthrene-d10	10.06	188	2482652	40.00	mg/l	-0.10
68) Chrysene-d12	13.08	240	1920857	40.00	mg/l	-0.13
76) Perylene-d12	15.39	264	1521346	40.00	mg/l	-0.21

System Monitoring Compounds

4) 2-Fluorophenol	3.92	112	619949	22.16	mg/l	-0.09
Spiked Amount	100.000		Recovery	=	22.16%	
6) Phenol-d6	4.81	99	769111	23.17	mg/l	-0.10
Spiked Amount	100.000		Recovery	=	23.17%	
20) Nitrobenzene-d5	5.73	82	682793	21.56	mg/l	-0.10
Spiked Amount	100.000		Recovery	=	21.56%	
10) 2-Fluorobiphenyl	7.68	172	1178100	21.31	mg/l	-0.10
Spiked Amount	100.000		Recovery	=	21.31%	
59) 2,4,6-Tribromophenol	9.30	330	152766	23.32	mg/l	-0.10
Spiked Amount	100.000		Recovery	=	23.32%	
70) p-Terphenyl-d14	11.85	244	1143489	19.84	mg/l	-0.10
Spiked Amount	100.000		Recovery	=	19.84%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Pyridine	2.64	52	538761m	22.23	mg/l	
3) N-Nitrosodimethylamine	2.65	74	410231	21.08	mg/l	91
5) Aniline	4.84	93	906985	20.32	mg/l	89
7) Phenol	4.82	94	840586	25.48	mg/l	97
8) Bis(2-Chloroethyl) Ether	4.91	93	634520	22.49	mg/l	# 1
9) 2-Chlorophenol	4.95	128	591156	22.67	mg/l	99
10) 1,3-Dichlorobenzene	5.10	146	658828m	21.72	mg/l	
11) 1,4-Dichlorobenzene	5.15	146	640124	21.36	mg/l	99
12) Benzyl Alcohol	5.29	79	558387	23.78	mg/l	97
13) 1,2-Dichlorobenzene	5.34	146	615657	21.87	mg/l	98
14) 2-Methylphenol	5.42	108	563903m	27.78	mg/l	
15) Bis(2-Chloroisopropyl) Eth	5.46	45	714427	22.06	mg/l	61
16) 3/4-Methylphenol	5.57	107	641772	23.16	mg/l	# 48
17) N-Nitroso-di-n-propylamine	5.60	70	436996	23.89	mg/l	97
18) Hexachloroethane	5.66	117	264593	23.08	mg/l	98
21) Nitrobenzene	5.75	77	704781	21.89	mg/l	98
22) Isophorone	6.00	82	1167974	22.94	mg/l	83
3) 2-Nitrophenol	6.09	139	317030	23.00	mg/l	85
24) 2,4-Dimethylphenol	6.13	107	528849	21.14	mg/l	91

(#)=qualifier out of range (m)=manual integration

Data File : C:\HPCHEM\1\DATA\000303\03MAR006.D
 Acq On : 3 Mar 2000 6:20 pm
 Sample : bna-20 S030300F
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Mar 6 14:21 2000

Vial: 6
 Operator:
 Inst : GC/MS H
 Multiplr: 1.00

Quant Results File: 000301.RES

Quant Method : C:\HPCHEM\1\METHODS\000301.M (RTE Integrator)
 Title : BNA 8270/625 CALIBRATION
 Last Update : Thu Feb 10 12:03:31 2000
 Response via : Initial Calibration
 DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) Benzoic Acid	6.25	105	393575	22.88	mg/l #	53
26) Bis(2-Chloroethoxy) Methan	6.24	93	731331	22.33	mg/l	99
27) 2,4-Dichlorophenol	6.34	162	447402	21.75	mg/l	99
28) 1,2,4-Trichlorobenzene	6.43	180	503261	21.54	mg/l	99
29) Naphthalene	6.50	128	1632103	21.68	mg/l	99
30) 4-Chloroaniline	6.58	127	486230	16.77	mg/l	97
31) Hexachloro-1,3-Butadiene	6.70	225	289129	21.96	mg/l	100
32) 4-Chloro-3-Methylphenol	7.10	107	506921	23.59	mg/l	97
33) 2-Methylnaphthalene	7.25	142	1104923m	22.25	mg/l	
34) 1-Methylnaphthalene	7.37	142	1011247	22.20	mg/l	96
36) Hexachlorocyclopentadiene	7.50	237	109986	10.47	mg/l	100
37) 2,4,6-Trichlorophenol	7.59	196	304979m	21.42	mg/l	
38) 2,4,5-Trichlorophenol	7.63	196	316382	21.17	mg/l	97
39) 2-Chloronaphthalene	7.78	162	986144	21.16	mg/l	99
41) 2-Nitroaniline	7.93	65	364573	22.93	mg/l	96
42) Dimethyl Phthalate	8.18	163	1117927	23.19	mg/l	99
43) Acenaphthylene	8.25	152	1574475	21.51	mg/l	100
44) 3-Nitroaniline	8.40	138	176575	17.14	mg/l	70
45) Acenaphthene	8.46	153	992197	21.88	mg/l	94
46) 2,4-Dinitrophenol	8.51	184	78935	17.46	mg/l	80
47) 4-Nitrophenol	8.58	139	174867	20.42	mg/l	92
48) Dibenzofuran	8.63	168	1365098	22.33	mg/l	99
49) 2,4-Dinitrotoluene	8.68	165	320860	24.18	mg/l	90
50) 2,6-Dinitrotoluene	8.25	165	243822	21.83	mg/l	90
51) Diethyl Phthalate	8.96	149	1128729	24.76	mg/l	97
52) 4-Chlorophenyl-Phenyl Ethe	9.02	204	509089	21.91	mg/l	99
53) Fluorene	9.02	166	1106456	22.47	mg/l	99
54) 4-Nitroaniline	9.08	138	173303	16.92	mg/l	96
56) Azobenzene	9.19	77	1345915	22.04	mg/l	84
57) 4,6-Dinitro-2-Methylphenol	9.13	198	147694	19.70	mg/l #	12
58) N-Nitrosodiphenylamine	9.16	169	752585	21.32	mg/l	95
60) 4-Bromophenyl-Phenyl Ether	9.56	248	314321	21.33	mg/l	97
61) Hexachlorobenzene	9.72	284	332835	22.38	mg/l	98
62) Pentachlorophenol	9.92	266	173156	22.00	mg/l	98
63) Phenanthrene	10.08	178	1521317m	22.05	mg/l	
64) Anthracene	10.13	178	1525256	21.60	mg/l	100
65) Di-n-Butyl Phthalate	10.77	149	1801421	24.81	mg/l	100
66) Fluoranthene	11.41	202	1545273	23.39	mg/l	99
67) Benzidine	11.56	184	189444m	15.31	mg/l	
69) Pyrene	11.66	202	1525913	19.22	mg/l	99
71) Butyl Benzyl Phthalate	12.44	149	701024	21.56	mg/l	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\000303\03MAR006.D
Acq On : 3 Mar 2000 6:20 pm
Sample : bna-20 S030300F
Misc :
MS Integration Params: rteint.p
Quant Time: Mar 6 14:21 2000

Vial: 6
Operator:
Inst : GC/MS H
Multiplr: 1.00

Quant Results File: 000301.RES

Quant Method : C:\HPCHEM\1\METHODS\000301.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration
DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) 3,3'-Dichlorobenzidine	13.04	252	311285	21.53	mg/l	97
73) Benzo (a) Anthracene	13.06	228	1280071m	20.30	mg/l	
74) Bis(2-Ethylhexyl) Phthalat	13.20	149	951963	23.42	mg/l	86
75) Chrysene	13.11	228	1195221	20.28	mg/l	97
77) Di-n-Octyl Phthalate	14.13	149	1467574	22.53	mg/l	98
78) Benzo (b) Fluoranthene	14.71	252	1122893m	20.11	mg/l	
79) Benzo (k) Fluoranthene	14.75	252	1112047	19.76	mg/l	99
80) Benzo (a) Pyrene	15.28	252	1006866	19.98	mg/l	97
81) Indeno (1,2,3-c,d) Pyrene	17.49	276	1033550m	21.22	mg/l	
82) Dibenz (a,h) Anthracene	17.54	278	872614	21.30	mg/l	97
83) Benzo (g,h,i) Perylene	18.02	276	838292	20.72	mg/l	88

(#) = qualifier out of range (m) = manual integration

03MAR006.D 000301.M Mon Mar 06 14:22:01 2000

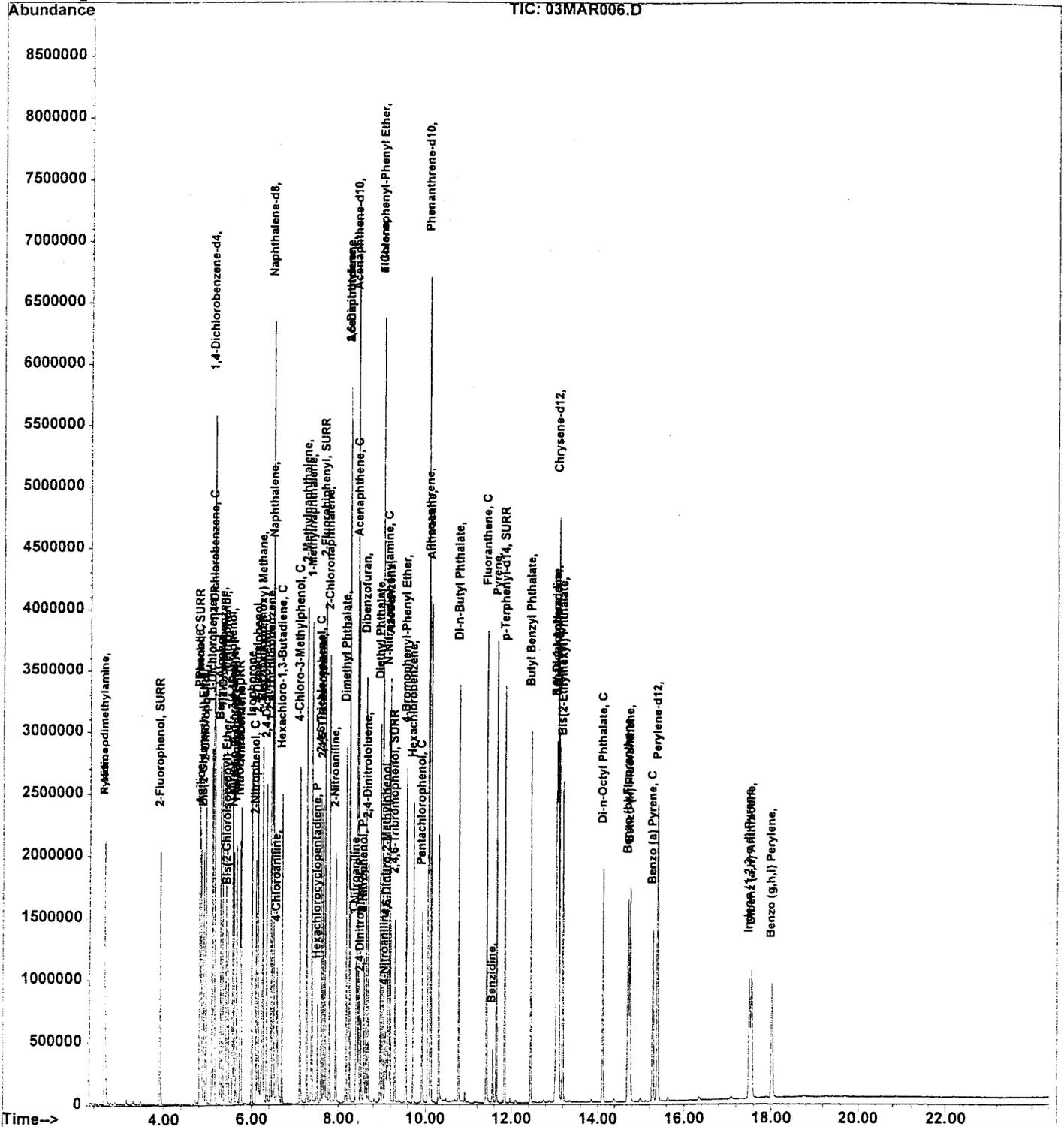
Page 3

Data File : C:\HPCHEM\1\DATA\000303\03MAR006.D
 Acq On : 3 Mar 2000 6:20 pm
 Sample : bna-20 S030300F
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Mar 6 14:21 2000

Vial: 6
 Operator:
 Inst : GC/MS H
 Multiplr: 1.00

Quant Results File: 000301.RES

Method : C:\HPCHEM\1\METHODS\000301.M (RTE Integrator)
 Title : BNA 8270/625 CALIBRATION
 Last Update : Thu Feb 10 12:03:31 2000
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\000303\03MAR007.D

Vial: 7

Acq On : 3 Mar 2000 6:54 pm

Operator:

Sample : bna-5 S122899H

Inst : GC/MS H

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 6 14:55 2000

Quant Results File: 000303.RES

Quant Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Thu Feb 10 12:03:31 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.13	152	914370	40.00	mg/l	-0.01
19) Naphthalene-d8	6.48	136	3145074	40.00	mg/l	-0.01
35) Acenaphthene-d10	8.42	164	1792466	40.00	mg/l	0.00
55) Phenanthrene-d10	10.05	188	2694753	40.00	mg/l	-0.01
68) Chrysene-d12	13.08	240	2168044	40.00	mg/l	-0.02
76) Perylene-d12	15.39	264	1701364	40.00	mg/l	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	3.92	112	176990	5.37	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	5.37%	
6) Phenol-d6	4.80	99	218691	5.42	mg/l	-0.04
Spiked Amount	100.000		Recovery	=	5.42%	
20) Nitrobenzene-d5	5.73	82	199799	5.86	mg/l	-0.03
Spiked Amount	100.000		Recovery	=	5.86%	
7) 2-Fluorobiphenyl	7.68	172	359615	6.34	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	6.34%	
59) 2,4,6-Tribromophenol	9.30	330	41113	5.23	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	5.23%	
70) p-Terphenyl-d14	11.85	244	354987	6.19	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	6.19%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Pyridine	2.65	52	155649	5.50	mg/l	69
3) N-Nitrosodimethylamine	2.65	74	117488	5.39	mg/l	93
5) Aniline	4.84	93	281519	5.77	mg/l	90
7) Phenol	4.82	94	245893	5.77	mg/l	94
8) Bis(2-Chloroethyl) Ether	4.90	93	183932	5.28	mg/l	# 1
9) 2-Chlorophenol	4.95	128	169999	5.40	mg/l	98
10) 1,3-Dichlorobenzene	5.10	146	193450	5.65	mg/l	99
11) 1,4-Dichlorobenzene	5.15	146	188956	5.61	mg/l	96
12) Benzyl Alcohol	5.29	79	157039	5.20	mg/l	96
13) 1,2-Dichlorobenzene	5.34	146	178930	5.57	mg/l	98
14) 2-Methylphenol	5.42	108	159012	5.31	mg/l	# 46
15) Bis(2-Chloroisopropyl) Eth	5.46	45	213858	5.84	mg/l	61
16) 3/4-Methylphenol	5.57	107	181302	5.22	mg/l	# 49
17) N-Nitroso-di-n-propylamine	5.60	70	128964	5.51	mg/l	97
18) Hexachloroethane	5.66	117	76334	5.38	mg/l	96
21) Nitrobenzene	5.75	77	208340	6.17	mg/l	96
22) Isophorone	5.99	82	335963	5.81	mg/l	83
23) 2-Nitrophenol	6.09	139	88462	5.49	mg/l	85
24) 2,4-Dimethylphenol	6.13	107	154018	5.44	mg/l	91

(#)= qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\000303\03MAR007.D
 Acq On : 3 Mar 2000 6:54 pm
 Sample : bna-5 S122899H
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Mar 6 14:55 2000

Vial: 7
 Operator:
 Inst : GC/MS H
 Multiplr: 1.00

Quant Results File: 000303.RES

Quant Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
 Title : BNA 8270/625 CALIBRATION
 Last Update : Thu Feb 10 12:03:31 2000
 Response via : Initial Calibration
 DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) Benzoic Acid	6.20	105	43870m	1.85	mg/l	
26) Bis(2-Chloroethoxy) Methan	6.24	93	213687	5.99	mg/l	99
27) 2,4-Dichlorophenol	6.33	162	124925	5.53	mg/l	97
28) 1,2,4-Trichlorobenzene	6.43	180	147241	5.91	mg/l	99
29) Naphthalene	6.50	128	480754	6.86	mg/l	98
30) 4-Chloroaniline	6.58	127	179207	6.24	mg/l	95
31) Hexachloro-1,3-Butadiene	6.70	225	84424	5.96	mg/l	98
32) 4-Chloro-3-Methylphenol	7.10	107	141484	5.61	mg/l	96
33) 2-Methylnaphthalene	7.25	142	323934	6.25	mg/l	99
34) 1-Methylnaphthalene	7.37	142	294726	6.16	mg/l	97
36) Hexachlorocyclopentadiene	7.50	237	17393	1.52	mg/l	96
37) 2,4,6-Trichlorophenol	7.59	196	84261	5.08	mg/l	100
38) 2,4,5-Trichlorophenol	7.63	196	90204	5.21	mg/l	97
39) 2-Chloronaphthalene	7.78	162	284823	5.78	mg/l	99
41) 2-Nitroaniline	7.93	65	98930	5.16	mg/l	94
42) Dimethyl Phthalate	8.17	163	323361	5.72	mg/l #	81
43) Acenaphthylene	8.25	152	463633	6.41	mg/l	99
44) 3-Nitroaniline	8.39	138	72998	9.19	mg/l	74
45) Acenaphthene	8.46	153	286251	5.81	mg/l	94
46) 2,4-Dinitrophenol	8.51	184	7916m	1.10	mg/l	
47) 4-Nitrophenol	8.58	139	36637	3.50	mg/l	87
48) Dibenzofuran	8.63	168	398143	6.19	mg/l	98
49) 2,4-Dinitrotoluene	8.67	165	85542	4.95	mg/l	91
50) 2,6-Dinitrotoluene	8.24	165	67457	5.32	mg/l	90
51) Diethyl Phthalate	8.96	149	320756	5.86	mg/l	97
52) 4-Chlorophenyl-Phenyl Ethe	9.02	204	149458	5.97	mg/l	97
53) Fluorene	9.01	166	321609	6.06	mg/l	99
54) 4-Nitroaniline	9.07	138	60768	6.78	mg/l	91
56) Azobenzene	9.19	77	388073	6.21	mg/l	84
57) 4,6-Dinitro-2-Methylphenol	9.12	198	22875	2.33	mg/l #	18
58) N-Nitrosodiphenylamine	9.15	169	216519	6.14	mg/l	94
60) 4-Bromophenyl-Phenyl Ether	9.56	248	89001	5.58	mg/l	96
61) Hexachlorobenzene	9.72	284	95262	5.70	mg/l	98
62) Pentachlorophenol	9.92	266	37293	3.72	mg/l	98
63) Phenanthrene	10.08	178	435009	6.22	mg/l	100
64) Anthracene	10.13	178	435597	6.27	mg/l	100
65) Di-n-Butyl Phthalate	10.77	149	507166	6.53	mg/l	99
66) Fluoranthene	11.41	202	446309	6.29	mg/l	99
67) Benzidine	11.56	184	117456	8.04	mg/l	99
69) Pyrene	11.65	202	449436	6.05	mg/l	100
71) Butyl Benzyl Phthalate	12.44	149	189316	5.05	mg/l	96

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\000303\03MAR007.D

Acq On : 3 Mar 2000 6:54 pm

Sample : bna-5 S122899H

Misc :

MS Integration Params: rteint.p

Quant Time: Mar 6 14:55 2000

Vial: 7

Operator:

Inst : GC/MS H

Multiplr: 1.00

Quant Results File: 000303.RES

Quant Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Thu Feb 10 12:03:31 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) 3,3'-Dichlorobenzidine	13.04	252	113560	7.34	mg/l	96
73) Benzo (a) Anthracene	13.05	228	372786m	5.52	mg/l	
74) Bis(2-Ethylhexyl) Phthalat	13.19	149	255625	5.03	mg/l	86
75) Chrysene	13.11	228	352613	5.68	mg/l	97
77) Di-n-Octyl Phthalate	14.13	149	371270	4.83	mg/l	99
78) Benzo (b) Fluoranthene	14.70	252	306316m	4.74	mg/l	
79) Benzo (k) Fluoranthene	14.74	252	327526	6.11	mg/l	99
80) Benzo (a) Pyrene	15.27	252	273124	5.01	mg/l	97
81) Indeno (1,2,3-c,d) Pyrene	17.49	276	277263m	4.77	mg/l	
82) Dibenz (a,h) Anthracene	17.54	278	227695	4.66	mg/l	98
83) Benzo (g,h,i) Perylene	18.01	276	230440	4.91	mg/l	75

(#) = qualifier out of range (m) = manual integration

03MAR007.D 000303.M

Mon Mar 06 14:56:13 2000

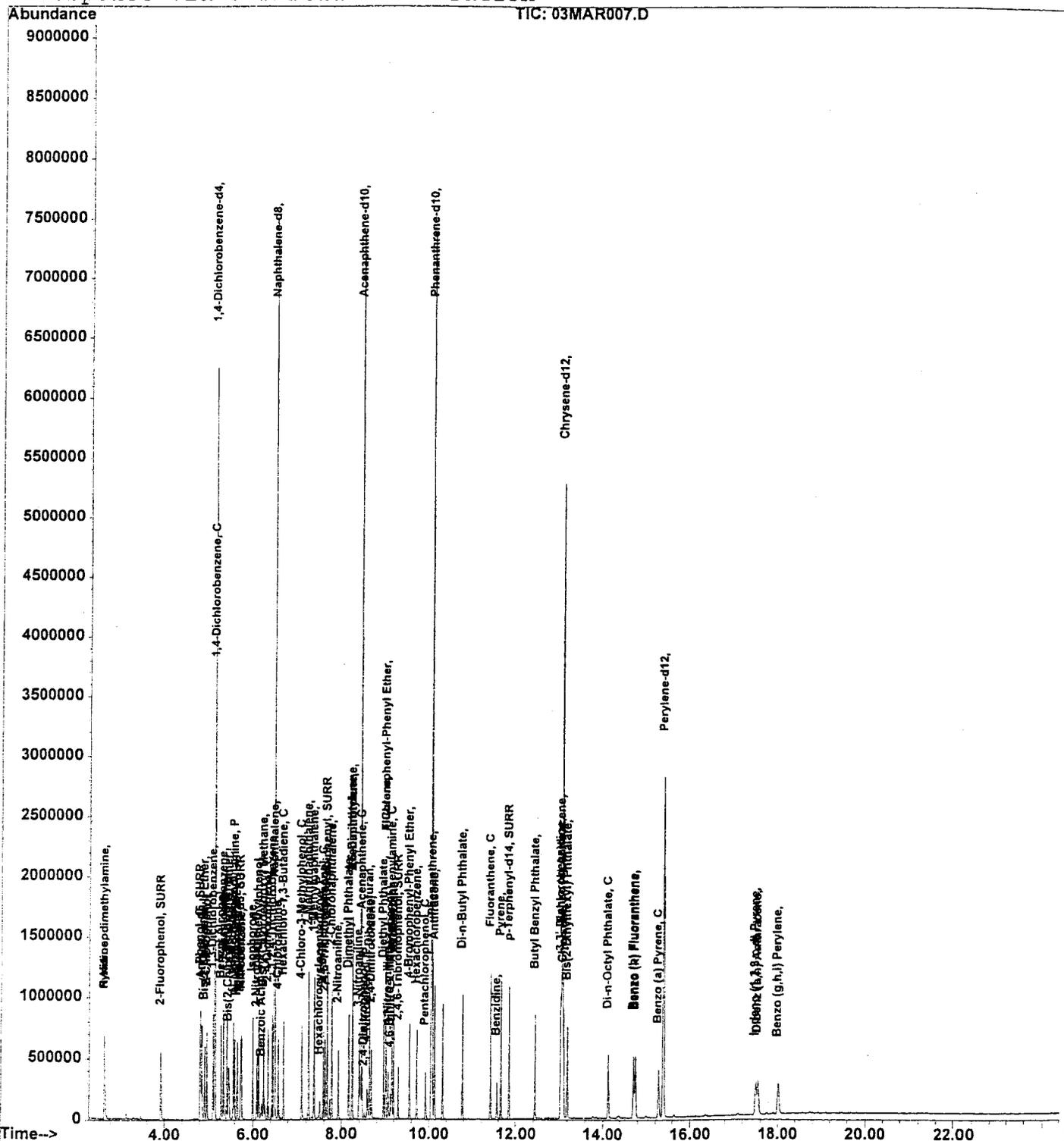
Page 3

Data File : C:\HPCHEM\1\DATA\000303\03MAR007.D
Acq On : 3 Mar 2000 6:54 pm
Sample : bna-5 S122899H
Misc :
MS Integration Params: rteint.p
Quant Time: Mar 6 14:55 2000

Vial: 7
Operator:
Inst : GC/MS H
Multiplr: 1.00

Quant Results File: 000303.RES

Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
Title : BNA 8270/625 CALIBRATION
Last Update : Thu Feb 10 12:03:31 2000
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\000303\03MAR008.D

Vial: 8

Acq On : 3 Mar 2000 7:28 pm

Operator:

Sample : bna-80 ICV S012800B

Inst : GC/MS H

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 6 15:03 2000

Quant Results File: 000303.RES

Quant Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Thu Feb 10 12:03:31 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.14	152	836382	40.00	mg/l	0.00
19) Naphthalene-d8	6.49	136	3059074	40.00	mg/l	0.00
35) Acenaphthene-d10	8.43	164	1758731	40.00	mg/l	0.00
55) Phenanthrene-d10	10.06	188	2717537	40.00	mg/l	0.00
68) Chrysene-d12	13.09	240	2150501	40.00	mg/l	0.00
76) Perylene-d12	15.40	264	1789609	40.00	mg/l	-0.01

System Monitoring Compounds

4) 2-Fluorophenol	3.92	112	2218976	73.59	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	73.59%	
6) Phenol-d6	4.82	99	2776794	75.18	mg/l	-0.02
Spiked Amount	100.000		Recovery	=	75.18%	
20) Nitrobenzene-d5	5.75	82	2571054	77.52	mg/l	-0.01
Spiked Amount	100.000		Recovery	=	77.52%	
0) 2-Fluorobiphenyl	7.69	172	4085741	73.46	mg/l	0.00
Spiked Amount	100.000		Recovery	=	73.46%	
59) 2,4,6-Tribromophenol	9.31	330	576475	72.71	mg/l	0.00
Spiked Amount	100.000		Recovery	=	72.71%	
70) p-Terphenyl-d14	11.86	244	4141257	72.74	mg/l	0.00
Spiked Amount	100.000		Recovery	=	72.74%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Pyridine	2.65	52	1854942m	71.66	mg/l	
3) N-Nitrosodimethylamine	2.67	74	1326940	66.51	mg/l	93
5) Aniline	4.85	93	2962499m	66.34	mg/l	
7) Phenol	4.84	94	2985384	76.53	mg/l	87
8) Bis(2-Chloroethyl) Ether	4.92	93	1978262	62.08	mg/l	# 1
9) 2-Chlorophenol	4.96	128	2161614	75.07	mg/l	100
10) 1,3-Dichlorobenzene	5.10	146	2416956	77.11	mg/l	99
11) 1,4-Dichlorobenzene	5.16	146	2405449	78.09	mg/l	100
12) Benzyl Alcohol	5.31	79	2226505	80.68	mg/l	98
13) 1,2-Dichlorobenzene	5.35	146	2263645	77.07	mg/l	98
14) 2-Methylphenol	5.43	108	1889549m	69.00	mg/l	
15) Bis(2-Chloroisopropyl) Eth	5.46	45	2571909	76.77	mg/l	70
16) 3/4-Methylphenol	5.59	107	2505843	78.82	mg/l	# 48
17) N-Nitroso-di-n-propylamine	5.63	70	1508878	70.42	mg/l	99
18) Hexachloroethane	5.66	117	999597	77.01	mg/l	98
21) Nitrobenzene	5.77	77	2611183	79.54	mg/l	99
22) Isophorone	6.02	82	4379922	77.89	mg/l	84
3) 2-Nitrophenol	6.10	139	1224447	78.15	mg/l	85
4) 2,4-Dimethylphenol	6.14	107	1879538	68.22	mg/l	93

(#)=qualifier out of range (m)=manual integration

Data File : C:\HPCHEM\1\DATA\000303\03MAR008.D
 Acq On : 3 Mar 2000 7:28 pm
 Sample : bna-80 ICV S012800B
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Mar 6 15:03 2000

Vial: 8
 Operator:
 Inst : GC/MS H
 Multiplr: 1.00

Quant Results File: 000303.RES

Quant Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)
 Title : BNA 8270/625 CALIBRATION
 Last Update : Thu Feb 10 12:03:31 2000
 Response via : Initial Calibration
 DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) Benzoic Acid	6.32	105	1690701	73.14	mg/l #	51
26) Bis(2-Chloroethoxy) Methan	6.25	93	2463844	71.01	mg/l	100
27) 2,4-Dichlorophenol	6.35	162	1725124	78.45	mg/l	99
28) 1,2,4-Trichlorobenzene	6.44	180	1919947	79.27	mg/l	99
29) Naphthalene	6.51	128	5209126	76.46	mg/l	96
30) 4-Chloroaniline	6.59	127	2404803	86.15	mg/l	96
31) Hexachloro-1,3-Butadiene	6.70	225	1078968	78.28	mg/l	99
32) 4-Chloro-3-Methylphenol	7.11	107	1960155	79.89	mg/l	99
33) 2-Methylnaphthalene	7.26	142	4009551	79.53	mg/l	99
34) 1-Methylnaphthalene	7.26	142	4009551	86.17	mg/l	93
36) Hexachlorocyclopentadiene	7.50	237	741446	66.12	mg/l	98
37) 2,4,6-Trichlorophenol	7.60	196	1202007	73.88	mg/l	99
38) 2,4,5-Trichlorophenol	7.64	196	1221231	71.94	mg/l	98
39) 2-Chloronaphthalene	7.79	162	3709994	76.76	mg/l	98
41) 2-Nitroaniline	7.94	65	1440212	76.63	mg/l	97
42) Dimethyl Phthalate	8.19	163	3650651	65.87	mg/l	99
43) Acenaphthylene	8.26	152	5122889	72.24	mg/l	96
44) 3-Nitroaniline	8.41	138	1044692	134.00	mg/l	74
45) Acenaphthene	8.47	153	3523888	72.96	mg/l	96
46) 2,4-Dinitrophenol	8.52	184	540152	76.38	mg/l	81
47) 4-Nitrophenol	8.60	139	803594	78.21	mg/l	94
48) Dibenzofuran	8.64	168	4866033	77.15	mg/l	96
49) 2,4-Dinitrotoluene	8.69	165	1288581	76.06	mg/l	89
50) 2,6-Dinitrotoluene	8.27	165	948423	76.22	mg/l	95
51) Diethyl Phthalate	8.97	149	3589890	66.88	mg/l	99
52) 4-Chlorophenyl-Phenyl Ethe	9.03	204	1623233	66.03	mg/l	98
53) Fluorene	9.03	166	3822646	73.47	mg/l	100
54) 4-Nitroaniline	9.10	138	924597	105.15	mg/l	96
56) Azobenzene	9.20	77	4369936	69.33	mg/l	79
57) 4,6-Dinitro-2-Methylphenol	9.15	198	721141	72.80	mg/l #	15
58) N-Nitrosodiphenylamine	9.17	169	2482883	69.77	mg/l	97
60) 4-Bromophenyl-Phenyl Ether	9.56	248	1064322	66.22	mg/l	99
61) Hexachlorobenzene	9.73	284	1297232	76.94	mg/l	99
62) Pentachlorophenol	9.92	266	783721	77.57	mg/l	98
63) Phenanthrene	10.09	178	5034167	71.34	mg/l	97
64) Anthracene	10.14	178	5007972	71.45	mg/l	96
65) Di-n-Butyl Phthalate	10.78	149	5299915	67.67	mg/l	97
66) Fluoranthene	11.42	202	5175363	72.34	mg/l	97
67) Benzidine	11.57	184	234587m	15.91	mg/l	
69) Pyrene	11.67	202	5303560	72.00	mg/l	96
71) Butyl Benzyl Phthalate	12.45	149	2503585	67.35	mg/l	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\000303\03MAR008.D

Vial: 8

Acq On : 3 Mar 2000 7:28 pm

Operator:

Sample : bna-80 ICV S012800B

Inst : GC/MS H

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 6 15:03 2000

Quant Results File: 000303.RES

Quant Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Thu Feb 10 12:03:31 2000

Response via : Initial Calibration

DataAcq Meth : SVOA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) 3,3'-Dichlorobenzidine	13.06	252	1631532	106.31	mg/l	97
73) Benzo (a) Anthracene	13.07	228	4759658	71.04	mg/l	97
74) Bis(2-Ethylhexyl) Phthalat	13.20	149	3407255	67.58	mg/l	85
75) Chrysene	13.13	228	4537392	73.66	mg/l	99
77) Di-n-Octyl Phthalate	14.14	149	5531604	68.41	mg/l	99
78) Benzo (b) Fluoranthene	14.73	252	4677594m	68.77	mg/l	
79) Benzo (k) Fluoranthene	14.78	252	4206214	74.56	mg/l	98
80) Benzo (a) Pyrene	15.31	252	3916093	68.34	mg/l	98
81) Indeno (1,2,3-c,d) Pyrene	17.53	276	4560752m	74.60	mg/l	
82) Dibenz (a,h) Anthracene	17.59	278	3589337	69.88	mg/l	100
83) Benzo (g,h,i) Perylene	18.07	276	3671550	74.43	mg/l	87

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\000303\03MAR008.D

Vial: 8

Acq On : 3 Mar 2000 7:28 pm

Operator:

Sample : bna-80 ICV S012800B

Inst : GC/MS H

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Thu Feb 10 12:03:31 2000

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00
2	Pyridine	1.238	1.109	10.4	98	-0.04
3	N-Nitrosodimethylamine	0.954	0.793	16.9	91	-0.03
4	SURR 2-Fluorophenol	1.442	1.327	8.0	99	-0.02
5	Aniline	2.136	1.771	17.1	91	0.00
6	SURR Phenol-d6	1.766	1.660	6.0	103	-0.02
7	C Phenol	1.866	1.785	4.3#	104	-0.02
8	Bis(2-Chloroethyl) Ether	1.524	1.183	22.4	84	-0.01
9	2-Chlorophenol	1.377	1.292	6.2	103	-0.01
10	1,3-Dichlorobenzene	1.499	1.445	3.6	104	-0.01
11	C 1,4-Dichlorobenzene	1.473	1.438	2.4#	105	0.00
12	Benzyl Alcohol	1.320	1.331	-0.8	111	-0.02
13	1,2-Dichlorobenzene	1.405	1.353	3.7	104	0.00
14	2-Methylphenol	1.310	1.130	13.7	94	-0.01
	Bis(2-Chloroisopropyl) Ethe	1.602	1.538	4.0	106	0.00
	3/4-Methylphenol	1.520	1.498	1.4	107	-0.02
17	P N-Nitroso-di-n-propylamine	1.025	0.902	12.0	96	-0.02
18	Hexachloroethane	0.621	0.598	3.7	104	0.00
19	Naphthalene-d8	1.000	1.000	0.0	109	0.00
20	SURR Nitrobenzene-d5	0.434	0.420	3.2	105	-0.01
21	Nitrobenzene	0.429	0.427	0.5	108	-0.01
22	Isophorone	0.735	0.716	2.6	107	-0.02
23	C 2-Nitrophenol	0.205	0.200	2.4#	105	0.00
24	2,4-Dimethylphenol	0.360	0.307	14.7	90	-0.01
25	Benzoic Acid	0.297	0.276	7.1	97	-0.05
26	Bis(2-Chloroethoxy) Methane	0.454	0.403	11.2	96	-0.01
27	C 2,4-Dichlorophenol	0.288	0.282	2.1#	105	-0.01
28	1,2,4-Trichlorobenzene	0.317	0.314	0.9	107	0.00
29	Naphthalene	0.891	0.851	4.5	101	0.00
30	4-Chloroaniline	0.365	0.393	-7.7	115	0.00
31	C Hexachloro-1,3-Butadiene	0.180	0.176	2.2#	105	0.00
32	C 4-Chloro-3-Methylphenol	0.321	0.320	0.3#	107	0.00
33	2-Methylnaphthalene	0.659	0.655	0.6	107	0.00
34	1-Methylnaphthalene	0.608	0.655	-7.7	116	-0.13
35	Acenaphthene-d10	1.000	1.000	0.0	116	0.00
36	P Hexachlorocyclopentadiene	0.217	0.211	2.8	106	0.00
37	C 2,4,6-Trichlorophenol	0.370	0.342	7.6#	106	0.00
38	2,4,5-Trichlorophenol	0.386	0.347	10.1	101	0.00
39	2-Chloronaphthalene	1.099	1.055	4.0	109	0.00

(#)= Out of Range

03MAR008.D 000303.M

Tue Apr 11 10:38:17 2000

Page 1

Data File : C:\HPCHEM\1\DATA\000303\03MAR008.D

Vial: 8

Acq On : 3 Mar 2000 7:28 pm

Operator:

Sample : bna-80 ICV S012800B

Inst : GC/MS H

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\000303.M (RTE Integrator)

Title : BNA 8270/625 CALIBRATION

Last Update : Thu Feb 10 12:03:31 2000

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
78	Benzo (b) Fluoranthene	1.520	1.307	14.0	107	-0.04
79	Benzo (k) Fluoranthene	1.261	1.175	6.8	113	-0.03
80 C	Benzo (a) Pyrene	1.281	1.094	14.6#	105	-0.03
81	Indeno (1,2,3-c,d) Pyrene	1.367	1.274	6.8	114	-0.04
82	Dibenz (a,h) Anthracene	1.148	1.003	12.6	107	-0.04
83	Benzo (g,h,i) Perylene	1.103	1.026	7.0	114	-0.04

(#) = Out of Range

SPCC's out = 0 CCC's out = 13

03MAR008.D 000303.M

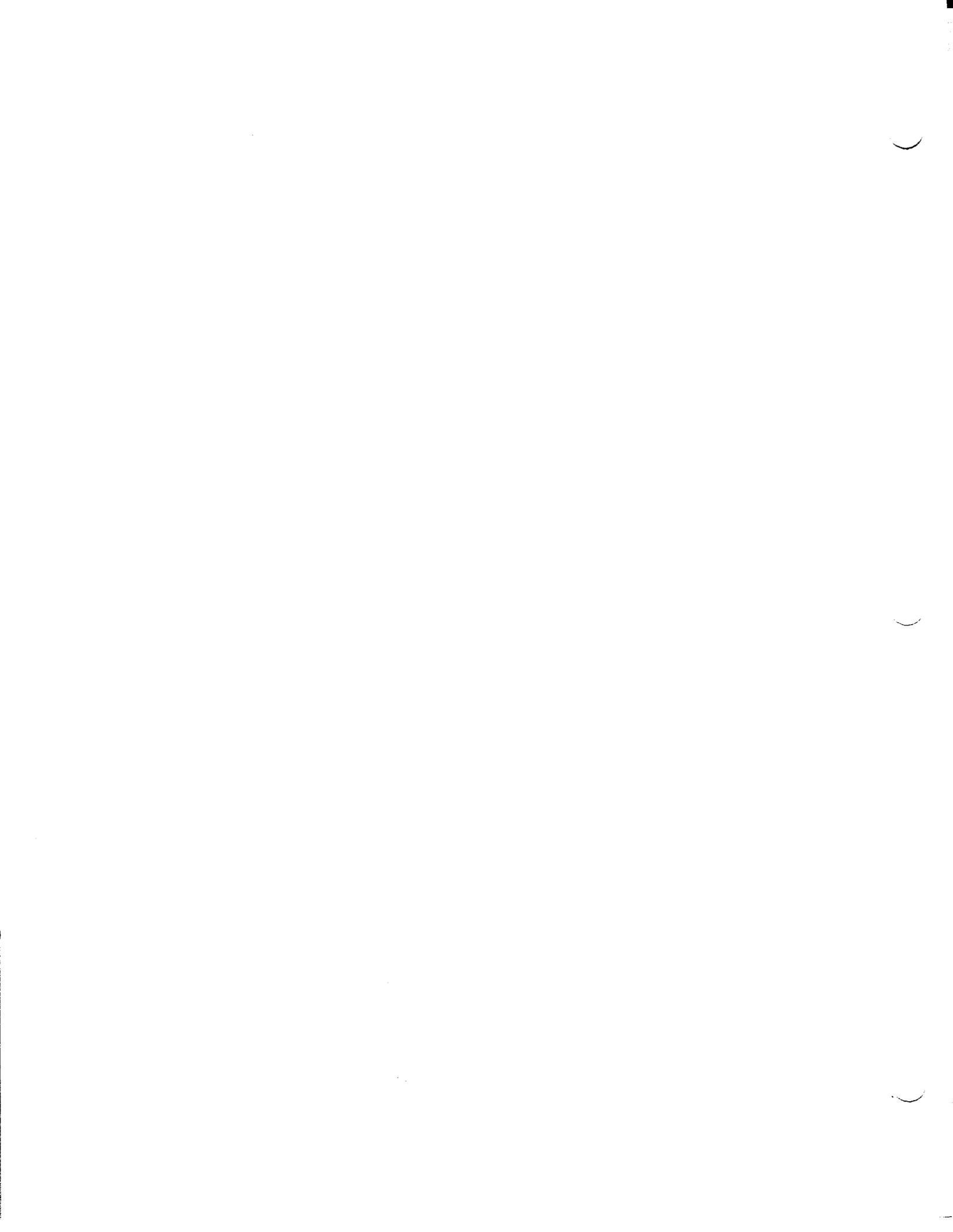
Tue Apr 11 10:38:22 2000

Page 3



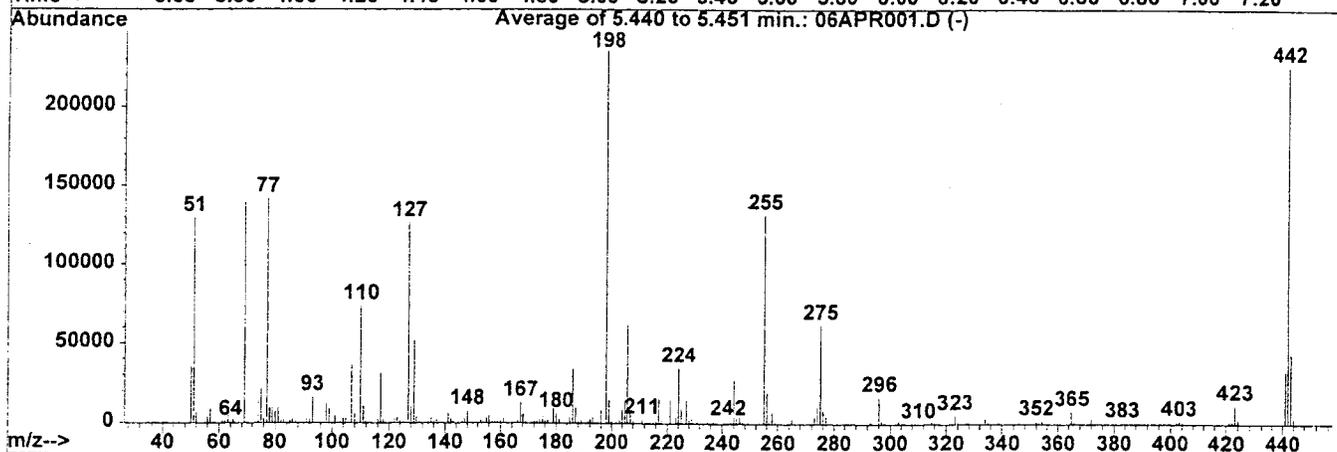
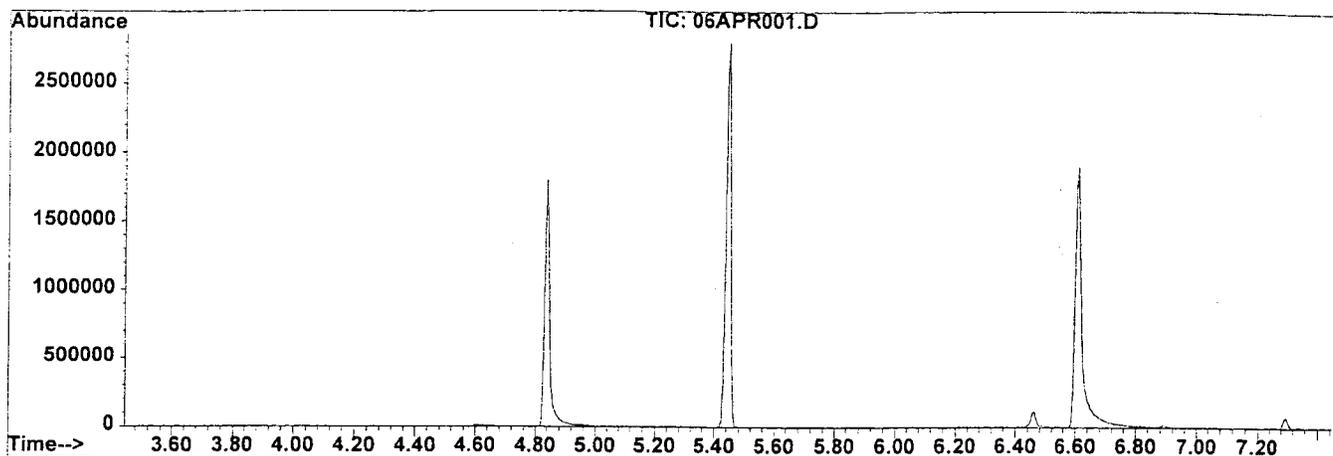
Continuing Calibration Raw Data

Geomatrix Consultants



Data File : C:\HPCHEM\1\DATA\000406\06APR001.D
 Acq On : 6 Apr 2000 12:22 pm
 Sample : dftpp s032000A
 Misc :
 MS Integration Params: rteint.p
 Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : bbbbb

Vial: 1
 Operator:
 Inst : GC/MS H
 Multiplr: 1.00



AutoFind: Scans 161, 162, 163; Background Corrected with Scan 155

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	55.1	129696	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	59.3	139475	PASS
70	69	0.00	2	0.2	260	PASS
127	198	40	60	53.7	126280	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	235264	PASS
199	198	5	9	6.3	14846	PASS
275	198	10	30	26.4	62080	PASS
365	198	1	100	3.3	7756	PASS
441	443	0.01	100	75.0	33027	PASS
442	198	40	100	95.9	225621	PASS
443	442	17	23	19.5	44056	PASS