CHEMTECH
110 Route 4
Englewood, New Jersey 07631
Phone: (201) 567-6868 Fax: (201) 567-1333

512 Route 9
Forked River, New Jersey 08731
Phone: (609) 693-2111 Fax: (609) 971-9300

231305

# DATA PACKAGE FOR PCBS

RECEIVED
SEP 15 1997

# RFP 2090
# SITE G2
# TDD # 02-97-02-0015

A FULL SERVICE ENVIRONMENTAL LABORATORY

**ROY F. WESTON INC.**
**USEPA REGION II START**
**SUITE 201**
**1090 KING GEORGES POST ROAD**
**EDISON, NJ 08837-3703**

**CHEMTECH PROJECT #** **4968CLP**
**ATTENTION** **SMITA SUMBALY**

Since 1967

1967 - 1997
30
YEARS OF EXCELLENCE
CHEMTECH

CHEMTECH

RECEIVED
SEP 15 1997

# CASE NARRATIVE

**WESTON**
**RFP 2090 Site G2**
**TDD# 02-97-02-0015**
**Chemtech # 4968CLP**

**A. Number of Samples and Date of Sample Receipt:**
6 Soil samples and 1 aqueous sample were delivered to the laboratory intact on 8/27/97. Some samples were assigned to Project 4967CLP.

**B. Parameters:**
Tests requested on the Chain of Custody were PCBs.

**C. Analytical Techniques:**
The analysis of PCBs is based on SW 846 Method 8080.

**D. QA/ QC Samples**
The Surrogate Recoveries for each sample are found in Form II-F. Initial Calibration of Single Component Analytes results are found on Form 6 D & E. Initial Calibration of Multicomponent Analytes is found on Form 6 F. The Analyte Resolution Summary is on Form 6G and the Calibration Verification Summaries are on Form 7D & E. Method Blank Summaries are located on Form IV-C. The Matrix Spike and Matrix Spike Duplicate were analyzed and are reported on Form 3F.

Surrogate recoveries met QC requirements. MS/ MSDs recoveries and RPDs met requirements. Calibrations met requirements. Surrogate Retention Times were within QC limits. Blank analyses did not indicate the presence of contamination.

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature _____ NAME Divyajit Mehta

Date 9/11/97 Title Laboratory Director

CHEMTECH

# LABORATORY REPORT

RECEIVED
SEP 15 1997

COVER PAGE

Lab Name: Chemtech Consulting Group  Client: ROY F. WESTON, INC.
Lab Code: CHEM  Project No.: 4968CLP  Project Name: RFP 2090

| Client Sample No. | Lab Sample ID |
|---|---|
| WSED(S) | 26729 |
| WSED(D) | 26730 |
| RB-3 | 26731 |
| WSED(D) MS | 26732 |
| WSED(D) MSD | 26733 |

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designed, as verified by the following signature.

Signature: _____ Name: DIVYA MEHTA

Date : 9/11/97 Title: LAB DIRECTOR



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NYSDOH Certification No. 10624
NJDEP Certification No. 02548

NJDEP Certification No. 15004

CHEMTECH

# DATA REPORTING QUALIFIERS--ORGANIC

For reporting results, the following "Results Qualifiers" are used:

VALUE - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates the compound was analyzed for, but was not detected. Report the minimum detection limit for the sample with the U, "10U". This is not necessarily the instrument detection limit. The figure represents the minimum detection limit attainable for this particular sample based on any concentration or dilution that may have been required.

J - Indicates an estimated value. This flag is used:

1) When estimating a concentration for tentatively identified compound (library search hits, where a 1:1 response is assumed.)
2) When the mass spectral data indicated the identification criteria, however, the result was less than the specified detection limit but greater than zero. If the detection limit was 10 ug/L and a concentration of 3 ug/L was calculated, report as "3J".

B - Indicates the analyte was found in the blank as well as the sample; report as "12B".

E - Indicates the analyte's concentration exceeds the calibrated range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

P- This flag is used for a Pesticide/Aroclor target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of gthe two values is reported on Form I and flagged with a "P".

N- This flag indicates presumptive evidence of a compound. This flag is only used fore tentatively identified compounds (TICs), where the identification is basdd on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.

# VI.

# PESTICIDES/PCB'S DATA

# A.

# PESTICIDES DATA
# QC DATA

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68D20041

Lab Code: CHEM Case No.: SAS No.: SDG No.: 4968CLP

GC Column(1): RTX1701 ID: 0.53 (mm) GC Column(2): RTX5 ID: 0.53 (mm)

| | EPA SAMPLE NO. | TCX 1 %REC # | TCX 2 %REC # | DCB 1 %REC # | DCB 2 %REC # | OTHER (1) | OTHER (2) | TOT OUT |
|---|---|---|---|---|---|---|---|---|
| 01 | PIBLK01 | 86 | | 97 | | | | 0 |
| 02 | PIBLK02 | 85 | | 86 | | | | 0 |
| 03 | PIBLK03 | 111 | | 114 | | | | 0 |
| 04 | PIBLK04 | 84 | | 90 | | | | 0 |
| 05 | RB-1 | 85 | | 90 | | | | 0 |
| 06 | PIBLK05 | 88 | | 90 | | | | 0 |
| 07 | | | | | | | | |
| 08 | | | | | | | | |
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| | ADVISORY QC LIMITS |
|---|---|
| TCX = Tetrachloro-m-xylene | (60-150) |
| DCB = Decachlorobiphenyl | (60-150) |

# Column used to flag retention time values with an asterisk.
* Values outside of QC limits.
D Surrogate diluted out

000006

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68D20041

Lab Code: CHEM Case No.: SAS No.: SDG No.: 4968CLP

GC Column(1): RTX1701 ID: 0.53 (mm) GC Column(2): RTX5 ID: 0.53 (mm)

| | EPA SAMPLE NO. | TCX 1 %REC # | TCX 2 %REC # | DCB 1 %REC # | DCB 2 %REC # | OTHER (1) | OTHER (2) | TOT OUT |
|---|---|---|---|---|---|---|---|---|
| 01 | ZZZZZZ | | | | | | | 0 |
| 02 | PBLK01 | 100 | | 108 | | | | 0 |
| 03 | WSED(S) | 97 | | 89 | | | | 0 |
| 04 | WSED(D) | 121 | | 101 | | | | 0 |
| 05 | WSED(D)MS | 101 | | 122 | | | | 0 |
| 06 | WSED(D)MSD | 93 | | 109 | | | | 0 |
| 07 | | | | | | | | |
| 08 | | | | | | | | |
| 09 | | | | | | | | |
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| 30 | | | | | | | | |

| | ADVISORY QC LIMITS |
|---|---|
| TCX = Tetrachloro-m-xylene | (60-150) |
| DCB = Decachlorobiphenyl | (60-150) |

# Column used to flag retention time values with an asterisk.
* Values outside of QC limits.
D Surrogate diluted out

000007

3F

# SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68D20041

Lab Code: CHEM Case No.: SAS No.: SDG No.: 4968CLP

Matrix Spike - EPA SAMPLE NO.:BNS1MS

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| AR1260 | 66.6 | 0.000 | 66 | 99 | 40-130 |

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC # | MSD % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| AR1260 | 66.6 | 66 | 99 | 0 | | 40-130 |

# Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits.

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK01

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68D20041

Lab Code: CHEM Case No.: SAS No.: SDG No.: 4968CLP

Lab Sample ID: MBLK4968 Lab File ID: _____

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

Sulfur Cleanup: (Y/N) N Date Extracted: 08/29/97

Date analyzed: (1): 09/01/97 Date analyzed: (1): 09/01/97

Time analyzed: (1): 1522 Time analyzed: (1): 1522

Instrument ID (1): CS01 Instrument ID (2): CS01

GC Column(1): RTX5 ID: 0.53 (mm) GC Column(2): RTX1701 ID: 0.53 (mm)

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|---|
| 01 | WSED(S) | 26729 | 09/01/97 | 09/01/97 |
| 02 | WSED(D) | 26730 | 09/01/97 | 09/01/97 |
| 03 | RB-1 | 26731 | 09/01/97 | 09/01/97 |
| 04 | WSED(D)MS | 26732 | 09/01/97 | 09/01/97 |
| 05 | WSED(D)MSD | 26732 | 09/01/97 | 09/01/97 |
| 06 | | | | |
| 07 | | | | |
| 08 | | | | |
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| 25 | | | | |
| 26 | | | | |

COMMENTS:

# B.

# PESTICIDES DATA
# SAMPLE DATA

# 1D PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WSED(S)

Lab Name: CHEMTECH CONSULTING GROUP Contract: ROY F. WESTON

Lab Code: CHEM Case No.: 4968CLP SAS No.: SDG No.:

Matrix: SOIL Lab Sample ID: 26729

Sample wt/vol: 30 (g/mL) g Lab File ID: 098F0101'A'

% Moisture: 26 decanted: (Y/N) N Date Received: 08/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/29/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/01/97

Injection Volume: 2 (uL) Dilution Factor: 1

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

CONCENTRATION UNITS: UG/KG

| CAS NO. | COMPOUND | UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 45 | U |
| 11104-28-2 | Aroclor-1221 | 90 | U |
| 11141-16-5 | Aroclor-1232 | 45 | U |
| 53469-21-9 | Aroclor-1242 | 45 | U |
| 12672-29-6 | Aroclor-1248 | 45 | U |
| 11097-69-1 | Aroclor-1254 | 140 ~~146~~ ~~219~~ | |
| 11096-82-5 | Aroclor-1260 | 45 | U |

FORM I PEST

1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WSED(S)

Lab Name: CHEMTECH CONSULTING GROUP Contract: ROY F. WESTON

Lab Code: CHEM Case No.: 4968CLP SAS No.: SDG No.:

Matrix: SOIL Lab Sample ID: 26729

Sample wt/vol: 30 (g/mL) g Lab File ID: 098F0101'A'

% Moisture: 26 decanted: (Y/N) N Date Received: 08/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/29/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/01/97

Injection Volume: 2 (uL) Dilution Factor: 1

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 45 | U |
| 11104-28-2 | Aroclor-1221 | 90 | U |
| 11141-16-5 | Aroclor-1232 | 45 | U |
| 53469-21-9 | Aroclor-1242 | 45 | U |
| 12672-29-6 | Aroclor-1248 | 45 | U |
| 11097-69-1 | Aroclor-1254 | 140 ~~219~~ | |
| 11096-82-5 | Aroclor-1260 | 45 | U |

FORM I PEST

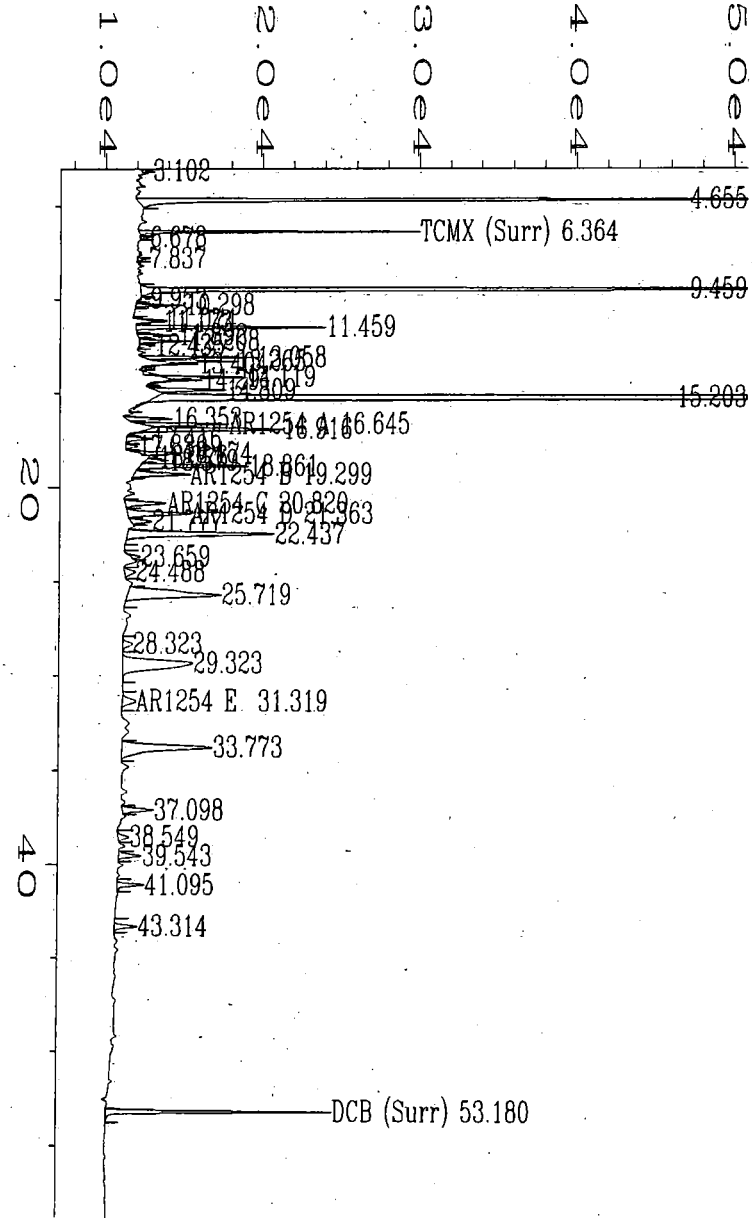
# External Standard Report

| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\098F0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 98 |
| Sample Name | : 26729 WSED(S) | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 01 Sep 97 04:24 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 03 Sep 97 05:22 AM | Analysis Method | : F1254B.MTH |
| Last Recalib on | : 19 AUG 97 11:12 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |

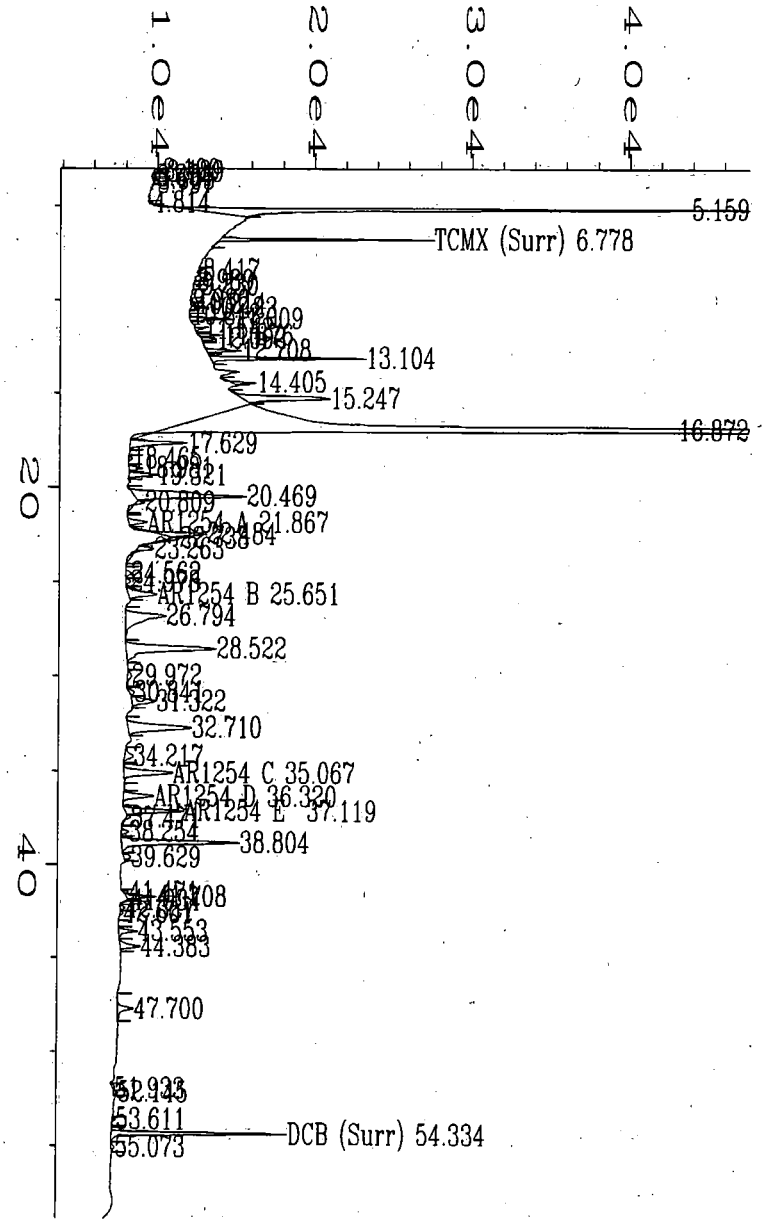
Sig. 1 in C:\HPCHEM\1\DATA\970828AP\098F0101.D

| Ret Time | Area | Type | Width | Ref# | ppb | Name |
|---|---|---|---|---|---|---|
| 6.364 | 74964 | BB | 0.064 | 1 | 13.342 | TCMX (Surr) |
| 16.645 | 39538 | BB | 0.121 | 1 | 444.774 | AR1254 A |
| 19.299 | 36629 | BB | 0.158 | 1 | 345.100 | AR1254 B |
| 20.820 | 30276 | BB | 0.182 | 1 | 290.101 | AR1254 C |
| 21.362 | 49523 | BB | 0.192 | 1 | 229.739 | AR1254 D |
| 31.319 | 19905 | BB | 0.345 | 1 | 203.191 | AR1254 E |
| 53.180 | 105651 | BB | 0.117 | 1 | 17.898 | DCB (Surr) |

302.58




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\098F0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 98 |
| Sample Name | : 26729 WSED(S) | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 01 Sep 97 04:24 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 07 Sep 97 11:51 PM | Analysis Method | : F1254B.MTH |
| Last Recalib on | : 19 AUG 97 11:12 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | |




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\098R0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 98 |
| Sample Name | : 26729 WSED(S) | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 01 Sep 97 04:24 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 09 Sep 97 08:42 PM | Analysis Method | : R1254B.MTH |
| Last Recalib on | : 23 AUG 97 12:28 PM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |

# 1D PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W6ED(D)

Lab Name: CHEMTECH CONSULTING GROUP Contract: ROY F. WESTON

Lab Code: CHEM Case No.: 4968CLP SAS No.: SDG No.:

Matrix: SOIL Lab Sample ID: 26730

Sample wt/vol: 30 (g/mL) g Lab File ID: 099F0101'A'

% Moisture: 17 decanted: (Y/N) N Date Received: 08/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/29/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/01/97

Injection Volume: 2 (uL) Dilution Factor: 1

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 40 | U |
| 11104-28-2 | Aroclor-1221 | 80 | U |
| 11141-16-5 | Aroclor-1232 | 40 | U |
| 53469-21-9 | Aroclor-1242 | 40 | U |
| 12672-29-6 | Aroclor-1248 | 40 | U |
| 11097-69-1 | Aroclor-1254 | 200 ~~136~~ | |
| 11096-82-5 | Aroclor-1260 | 40 | U |

FORM I PEST

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WSED(D)

Lab Name: CHEMTECH CONSULTING GROUP Contract: ROY F. WESTON

Lab Code: CHEM Case No.: 4968CLP SAS No.: SDG No.:

Matrix: SOIL Lab Sample ID: 26730

Sample wt/vol: 30 (g/mL) g Lab File ID: 099F0101'A'

% Moisture: 17 decanted: (Y/N) N Date Received: 08/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/29/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/01/97

Injection Volume: 2 (uL) Dilution Factor: 1

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 40 | U |
| 11104-28-2 | Aroclor-1221 | 80 | U |
| 11141-16-5 | Aroclor-1232 | 40 | U |
| 53469-21-9 | Aroclor-1242 | 40 | U |
| 12672-29-6 | Aroclor-1248 | 40 | U |
| 11097-69-1 | Aroclor-1254 | 200 ~~136~~ | |
| 11096-82-5 | Aroclor-1260 | 40 | U |

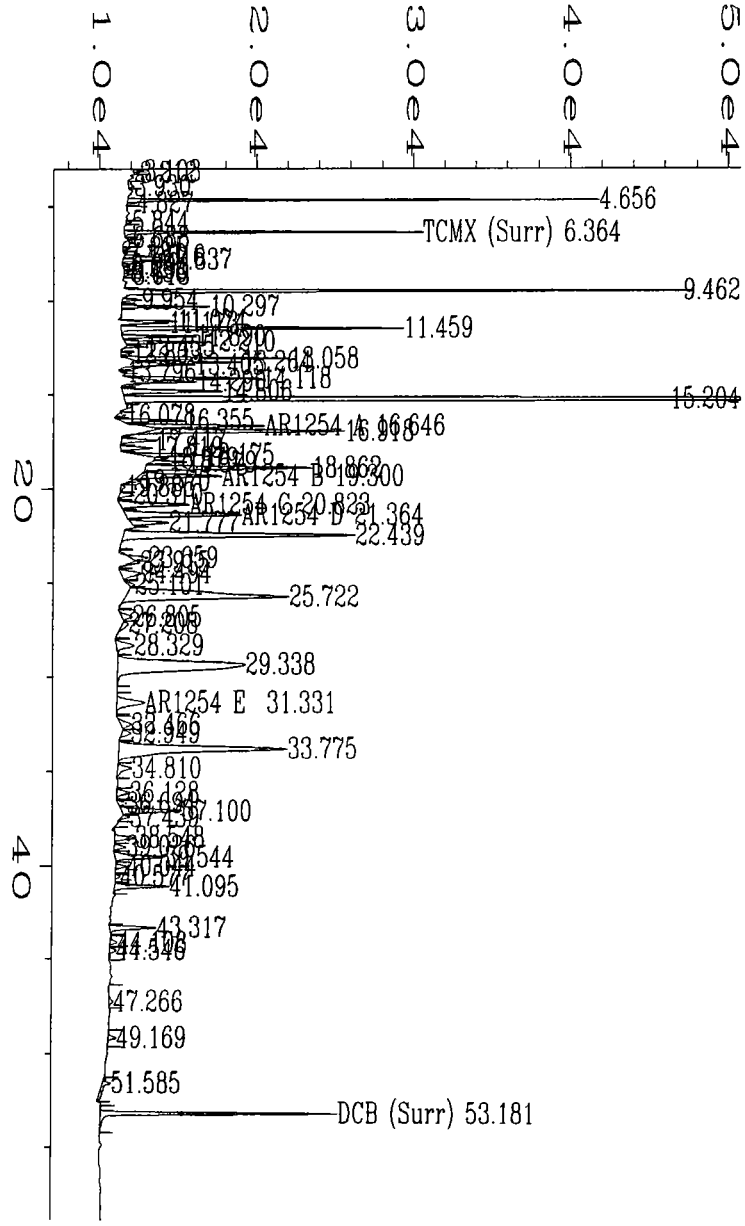
FORM I PEST

# External Standard Report

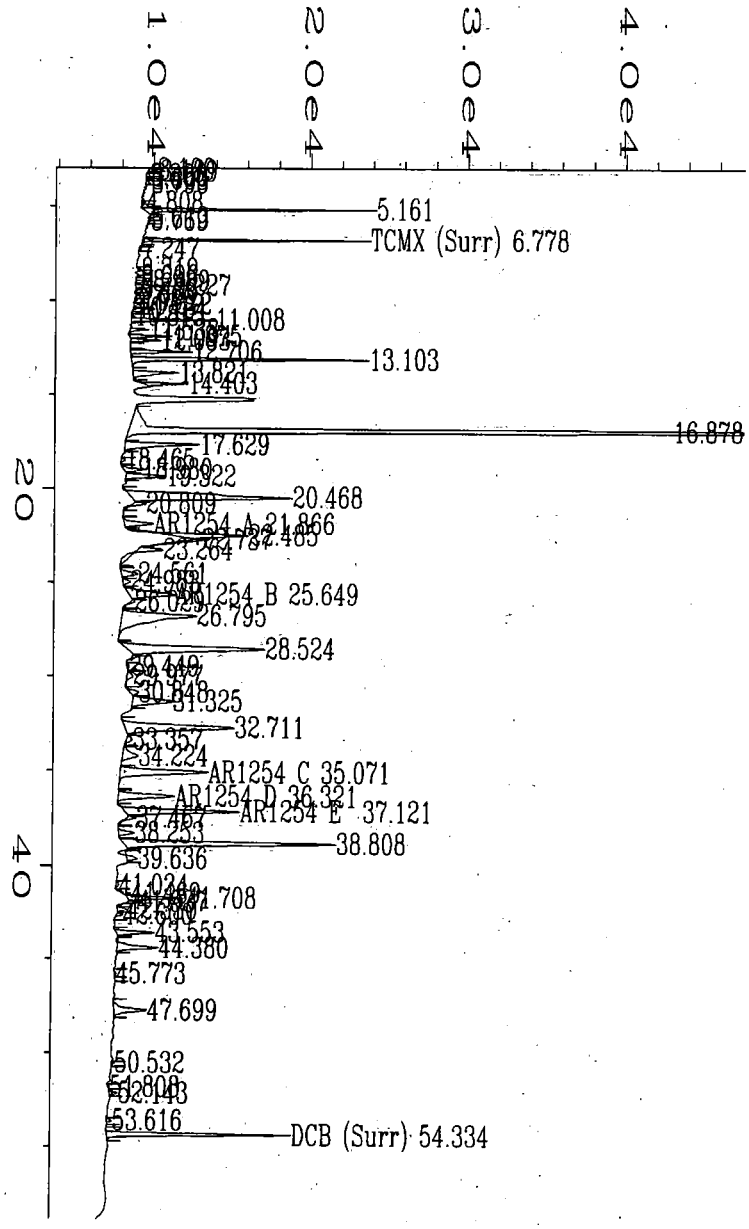
| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\099F0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 99 |
| Sample Name | : 26730 WSED(D) | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 01 Sep 97 05:25 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 03 Sep 97 05:22 AM | Analysis Method | : F1254B.MTH |
| Last Recalib on | : 19 AUG 97 11:12 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |

Sig. 1 in C:\HPCHEM\1\DATA\970828AP\099F0101.D

| Ret Time | Area | Type | Width | Ref# | ppb | Name |
|---|---|---|---|---|---|---|
| 6.365 | 122367 | BB | 0.065 | 1 | 24.211 | TCMX (Surr) |
| 16.646 | 56109 | BB | 0.121 | 1 | 631.189 | AR1254 A |
| 19.300 | 55871 | BB | 0.164 | 1 | 526.382 | AR1254 B |
| 20.823 | 50893 | BB | 0.184 | 1 | 487.652 | AR1254 C |
| 21.364 | 89133 | BB | 0.191 | 1 | 413.491 | AR1254 D |
| 31.331 | 36530 | BB | 0.318 | 1 | 372.912 | AR1254 E |
| 53.181 | 119714 | BB | 0.124 | 1 | 20.280 | DCB (Surr) |




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\099F0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 99 |
| Sample Name | : 26730 WSED(D) | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 01 Sep 97 05:25 PM | Instrument Method | : RK11.MTH |
| Report Created on: | 08 Sep 97 00:09 AM | Analysis Method | : F1254B.MTH |
| Last Recalib on | : 19 AUG 97 11:12 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\099R0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 99 |
| Sample Name | : 26730 WSED(D) | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 01 Sep 97 05:25 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 09 Sep 97 08:43 PM | Analysis Method | : R1254B.MTH |
| Last Recalib on | : 23 AUG 97 12:28 PM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB-3

Lab Name: CHEMTECH CONSULTING GROUP Contract: ROY F. WESTON

Lab Code: CHEM Case No.: 4968CLP SAS No.: SDG No.:

Matrix: WATER Lab Sample ID: 26731

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 100F0101'A'

% Moisture: 100 decanted: (Y/N) N Date Received: 08/27/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 08/29/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/01/97

Injection Volume: 2 (uL) Dilution Factor: 1

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | UG/L | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 1 | U |
| 11104-28-2 | Aroclor-1221 | 2 | U |
| 11141-16-5 | Aroclor-1232 | 1 | U |
| 53469-21-9 | Aroclor-1242 | 1 | U |
| 12672-29-6 | Aroclor-1248 | 1 | U |
| 11097-69-1 | Aroclor-1254 | 1 | U |
| 11096-82-5 | Aroclor-1260 | 1 | U |

FORM I PEST

# External Standard Report

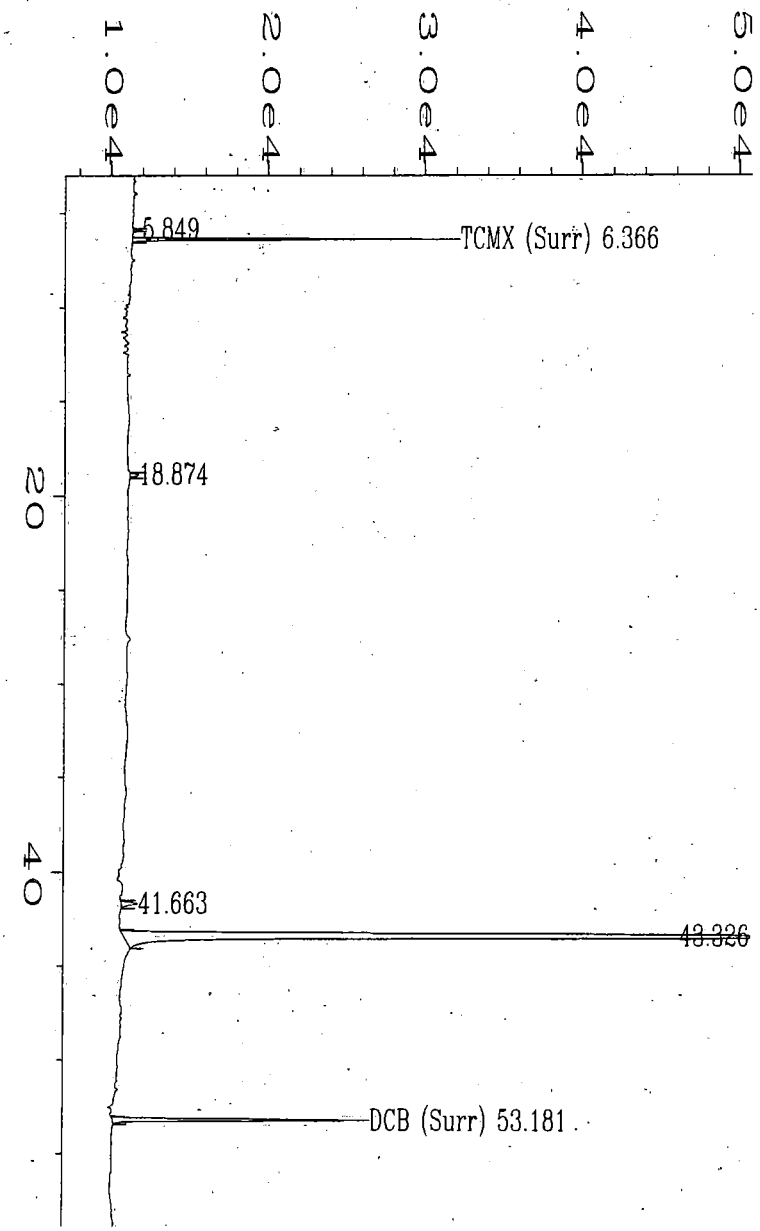
Data File Name : C:\HPCHEM\1\DATA\970828AP\100F0101.D
Operator : RK/AA
Instrument : INSTRUMEN
Sample Name : 26731 RB-1
Run Time Bar Code:
Acquired on : 01 Sep 97 06:26 PM
Report Created on: 09 Sep 97 09:38 PM
Last Recalib on : 29 AUG 97 10:32 AM
Multiplier : 1

Page Number : 1
Vial Number : 100
Injection Number : 1
Sequence Line : 1
Instrument Method: RK11.MTH
Analysis Method : ARPCBFB.MTH
Sample Amount : 0
ISTD Amount :

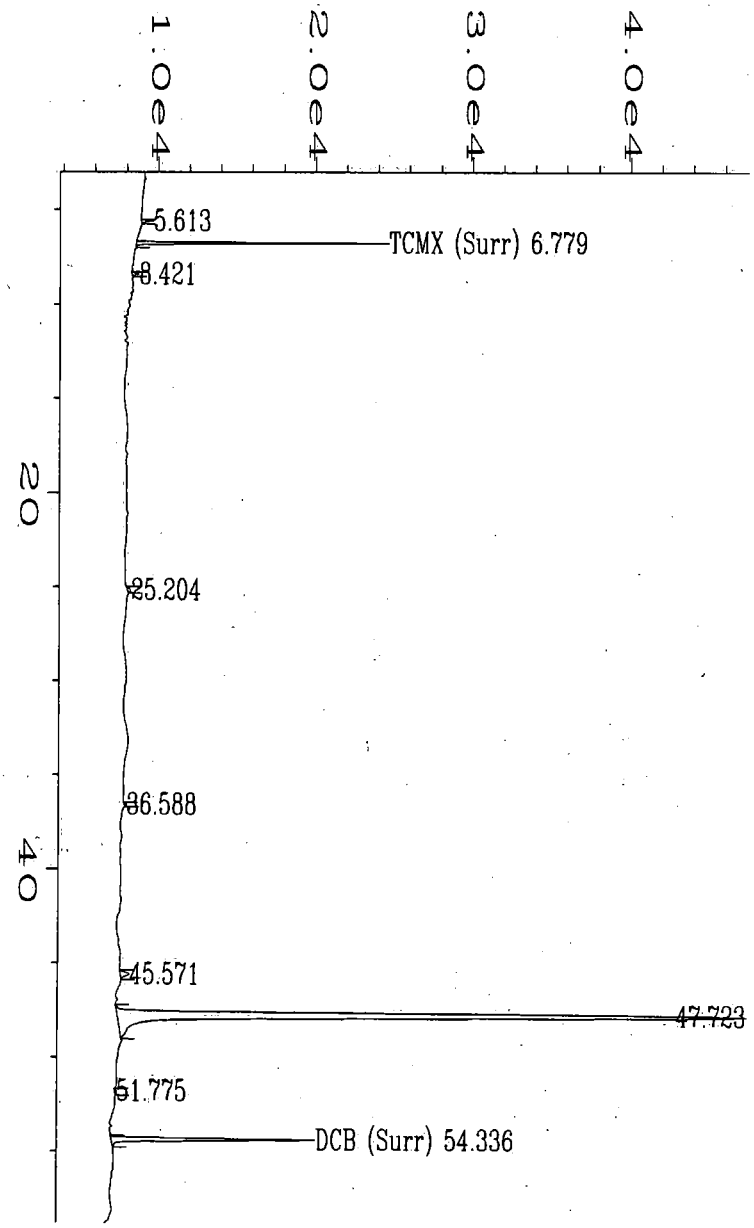
Sig. 1 in C:\HPCHEM\1\DATA\970828AP\100F0101.D

| Ret Time | Area | Type | Width | Ref# | ppb | Name |
|---|---|---|---|---|---|---|
| 6.366 | 85642 | BB | 0.063 | 1 | 16.945 | TCMX (Surr) |
| 9.540 | * not found * | | | 1 | | AR1016 A |
| 10.313 | * not found * | | | 1 | | AR1016 B |
| 11.472 | * not found * | | | 1 | | AR1016 C |
| 11.900 | * not found * | | | 1 | | AR1016 D |
| 12.229 | * not found * | | | 1 | | AR1016 E |
| 36.165 | * not found * | | | 1 | | AR1260 A |
| 36.725 | * not found * | | | 1 | | AR1260 B |
| 38.575 | * not found * | | | 1 | | AR1260 C |
| 39.054 | * not found * | | | 1 | | AR1260 D |
| 39.449 | * not found * | | | 1 | | AR1260 E |
| 53.181 | 117944 | BB | 0.111 | 1 | 18.051 | DCB (Surr) |

Not all calibrated peaks were found




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\100F0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 100 |
| Sample Name | : 26731 RB-1 | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 01 Sep 97 06:26 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 08 Sep 97 00:12 AM | Analysis Method | : ARPCBFB.MTH |
| Last Recalib on | : 29 AUG 97 10:32 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | |




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\100R0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 100 |
| Sample Name | : 26731 RB-1 | Injection Number | : 1 |
| Run Time Bar Code | : | Sequence Line | : 1 |
| Acquired on | : 01 Sep 97 06:27 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 09 Sep 97 08:43 PM | Analysis Method | : R1254B.MTH |
| Last Recalib on | : 23 AUG 97 12:28 PM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | |

# C.

# PESTICIDES DATA
# STANDARDS DATA

6F

# PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68D20041

Lab Code: CHEM Case No.: SAS No.: SDG No.: 4968CLP

Instrument ID: CS01 Date(s) Analyzed: 08/07/97 08/08/97

GC Column: RTX5 ID: 0.53 (mm)

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| | | *1 | | | | |
| | | *2 | | | | |
| | | *3 | | | | |
| | | 4 | | | | |
| | | 5 | | | | |
| Aroclor-1016 | 0.1 | *1 | 9.512 | 9.442 | 9.582 | 293760 |
| | | *2 | 10.285 | 10.215 | 10.355 | 176390 |
| | | *3 | 11.441 | 11.371 | 11.511 | 577300 |
| | | 4 | 11.872 | 11.802 | 11.942 | 236160 |
| | | 5 | 12.199 | 12.129 | 12.269 | 155760 |
| Aroclor-1221 | 0.2 | *1 | 7.213 | 7.143 | 7.283 | 91135 |
| | | *2 | 7.604 | 7.534 | 7.674 | 61140 |
| | | *3 | 7.826 | 7.756 | 7.896 | 230065 |
| | | 4 | | | | |
| | | 5 | | | | |
| Aroclor-1232 | 0.1 | *1 | 9.938 | 9.868 | 10.008 | 19540 |
| | | *2 | 11.063 | 10.993 | 11.133 | 18390 |
| | | *3 | 12.423 | 12.353 | 12.493 | 30250 |
| | | 4 | 13.046 | 12.976 | 13.116 | 86080 |
| | | 5 | 13.250 | 13.180 | 13.320 | 55240 |
| Aroclor-1242 | 0.1 | *1 | 14.102 | 14.032 | 14.172 | 63160 |
| | | *2 | 14.789 | 14.719 | 14.859 | 105190 |
| | | *3 | 15.287 | 15.217 | 15.357 | 22780 |
| | | 4 | 16.331 | 16.261 | 16.401 | 50190 |
| | | 5 | 16.868 | 16.798 | 16.938 | 82690 |
| Aroclor-1248 | 0.1 | *1 | 18.152 | 18.082 | 18.222 | 294610 |
| | | *2 | 18.560 | 18.490 | 18.630 | 30050 |
| | | *3 | 18.835 | 18.765 | 18.905 | 103330 |
| | | 4 | 20.275 | 20.205 | 20.345 | 11920 |
| | | 5 | 21.745 | 21.675 | 21.815 | 61430 |
| Aroclor-1254 | 0.1 | *1 | 16.628 | 16.558 | 16.698 | 76140 |
| | | *2 | 19.282 | 19.212 | 19.352 | 91290 |
| | | *3 | 20.797 | 20.727 | 20.867 | 90950 |
| | | 4 | 21.341 | 21.271 | 21.411 | 178480 |
| | | 5 | 31.295 | 31.225 | 31.365 | 74220 |
| Aroclor-1260 | 0.1 | *1 | 36.105 | 36.035 | 36.175 | 290350 |
| | | *2 | 36.667 | 36.597 | 36.737 | 139610 |
| | | *3 | 38.526 | 38.456 | 38.596 | 310020 |
| | | 4 | 39.009 | 38.939 | 39.079 | 142360 |
| | | 5 | 39.400 | 39.330 | 39.470 | 114610 |

* Denotes required peaks

6F

# PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68D20041

Lab Code: CHEM Case No.: SAS No.: SDG No.: 4968CLP

Instrument ID: CS01 Date(s) Analyzed: 08/07/97 08/08/97

GC Column: RTX1701 ID: 0.53 (mm)

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| | | *1 | | | | |
| | | *2 | | | | |
| | | *3 | | | | |
| | | 4 | | | | |
| | | 5 | | | | |
| Aroclor-1016 | 0.1 | *1 | 11.001 | 10.931 | 11.071 | 204960 |
| | | *2 | 12.084 | 12.014 | 12.154 | 87090 |
| | | *3 | 12.697 | 12.627 | 12.767 | 57390 |
| | | 4 | 13.091 | 13.021 | 13.161 | 441580 |
| | | 5 | 13.812 | 13.742 | 13.882 | 199470 |
| Aroclor-1221 | 0.2 | *1 | 8.296 | 8.226 | 8.366 | 71085 |
| | | *2 | 8.977 | 8.907 | 9.047 | 47525 |
| | | *3 | 9.215 | 9.145 | 9.285 | 175995 |
| | | 4 | | | | |
| | | 5 | | | | |
| Aroclor-1232 | 0.1 | *1 | 14.389 | 14.319 | 14.459 | 124320 |
| | | *2 | 15.236 | 15.166 | 15.306 | 208730 |
| | | *3 | 17.615 | 17.545 | 17.685 | 158730 |
| | | 4 | 18.963 | 18.893 | 19.033 | 30870 |
| | | 5 | 19.299 | 19.229 | 19.369 | 56790 |
| Aroclor-1242 | 0.1 | *1 | 22.595 | 22.525 | 22.665 | 30830 |
| | | *2 | 26.750 | 26.680 | 26.820 | 11560 |
| | | *3 | 30.385 | 30.315 | 30.455 | 127500 |
| | | 4 | 32.700 | 32.630 | 32.770 | 25240 |
| | | 5 | 47.709 | 47.639 | 47.779 | 36250 |
| Aroclor-1248 | 0.1 | *1 | 30.364 | 30.294 | 30.434 | 50400 |
| | | *2 | 37.104 | 37.034 | 37.174 | 88860 |
| | | *3 | 38.795 | 38.725 | 38.865 | 63730 |
| | | 4 | 44.824 | 44.754 | 44.894 | 172130 |
| | | 5 | 47.717 | 47.647 | 47.787 | 395220 |
| Aroclor-1254 | 0.1 | *1 | 21.841 | 21.771 | 21.911 | 30350 |
| | | *2 | 23.249 | 23.179 | 23.319 | 47450 |
| | | *3 | 25.638 | 25.568 | 25.708 | 76160 |
| | | 4 | 36.297 | 36.227 | 36.367 | 128880 |
| | | 5 | 37.096 | 37.026 | 37.166 | 129010 |
| Aroclor-1260 | 0.1 | *1 | 38.780 | 38.710 | 38.850 | 539100 |
| | | *2 | 39.494 | 39.424 | 39.564 | 202080 |
| | | *3 | 39.819 | 39.749 | 39.889 | 92500 |
| | | 4 | 41.927 | 41.857 | 41.997 | 232200 |
| | | 5 | 42.319 | 42.249 | 42.389 | 103230 |

* Denotes required peaks

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68D20041

Lab Code: CHEM Case No.: SAS No.: SDG No.: 4968CLP

GC Column: RTX1701 ID: 0.53 (mm) Init. Calib. Date(s): 08/08/97

Instrument ID: CS01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.762 DCB: 54.321

| | EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | TCX RT # | DCB RT # |
|---|---|---|---|---|---|---|
| 01 | AR166001 | AR1660 | 08/07/97 | 2007 | 6.767 | 54.324 |
| 02 | AR122101 | AR1221 | 08/07/97 | 2109 | 6.765 | 54.321 |
| 03 | AR123201 | AR1232 | 08/07/97 | 2210 | 6.765 | 54.322 |
| 04 | AR124201 | AR1242 | 08/07/97 | 2311 | 6.765 | 54.320 |
| 05 | AR124801 | AR1248 | 08/08/97 | 0013 | 6.764 | 54.321 |
| 06 | AR125401 | AR1254 | 08/08/97 | 0114 | 6.766 | 54.322 |
| 07 | INDAL01 | LOWA | 08/08/97 | 0317 | 6.758 | 54.326 |
| 08 | INDBL01 | LOWB | 08/08/97 | 0418 | 6.768 | 54.321 |
| 09 | INDAM01 | MIDA | 08/08/97 | 0520 | 6.766 | 54.319 |
| 10 | INDBM01 | MIDB | 08/08/97 | 0621 | 6.765 | 54.317 |
| 11 | INDAH01 | HIGHA | 08/08/97 | 0723 | 6.763 | 54.317 |
| 12 | INDBH01 | HIGHB | 08/08/97 | 0824 | 6.765 | 54.320 |
| 13 | PIBLK01 | I.BLANK | 08/08/97 | 0925 | 6.766 | 54.323 |
| 14 | PEM01 | PEM | 08/08/97 | 1027 | 6.769 | 54.325 |
| 15 | PIBLK02 | I.BLANK | 08/14/97 | 1930 | 6.777 | 54.347 |
| 16 | AR166002 | AR1660 | 08/14/97 | 2031 | 6.772 | 54.339 |
| 17 | AR166003 | AR1660 | 08/14/97 | 2133 | 6.770 | 54.335 |
| 18 | AR166004 | AR1660 | 08/14/97 | 2234 | 6.771 | 54.335 |
| 19 | AR166005 | AR1660 | 08/14/97 | 2336 | 6.768 | 54.333 |
| 20 | AR166006 | AR1660 | 08/15/97 | 0037 | 6.769 | 54.334 |
| 21 | AR122102 | AR1221 | 08/15/97 | 0138 | 6.770 | 54.335 |
| 22 | AR123202 | AR1232 | 08/15/97 | 0240 | 6.769 | 54.335 |
| 23 | AR124202 | AR1242 | 08/15/97 | 0341 | 6.769 | 54.339 |
| 24 | AR124802 | AR1248 | 08/15/97 | 0443 | 6.772 | 54.338 |
| 25 | AR125402 | AR1254 | 08/15/97 | 0544 | 6.771 | 54.339 |
| 26 | ZZZZ | ZZZZZ | 08/15/97 | 2320 | 6.780 | 54.346 |
| 27 | PIBLK03 | I.BLANK | 08/16/97 | 0645 | 6.808 | 54.391 |
| 28 | AR166007 | AR1660 | 09/01/97 | 1319 | 6.773 | 54.326 |
| 29 | PIBLK04 | I.BLANK | 09/01/97 | 1421 | 6.777 | 54.333 |
| 30 | PBLK01 | MBLK4968 | 09/01/97 | 1522 | 6.777 | 54.332 |
| 31 | WSED(S) | 26729 | 09/01/97 | 1624 | 6.778 | 54.334 |
| 32 | WSED(D) | 26730 | 09/01/97 | 1725 | 6.778 | 54.334 |

QC LIMITS
TCX = Tetrachloro-m-xylene (þ 0.05 MINUTES)
DCB = Decachlorobiphenyl (þ 0.10 MINUTES)

# Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68D20041

Lab Code: CHEM Case No.: SAS No.: SDG No.: 4968CLP

GC Column: RTX1701 ID: 0.53 (mm) Init. Calib. Date(s): 08/08/97

Instrument ID: CS01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.762 DCB: 54.321

| | EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | TCX RT # | DCB RT # |
|---|---|---|---|---|---|---|
| 01 | RB-1 | 26731 | 09/01/97 | 1826 | 6.779 | 54.336 |
| 02 | WSED(D)MS | 26732 | 09/01/97 | 1928 | 6.781 | 54.338 |
| 03 | WSED(D)MSD | 26733 | 09/01/97 | 2232 | 6.782 | 54.340 |
| 04 | AR166008 | AR1660 | 09/01/97 | 2334 | 6.780 | 54.338 |
| 05 | PIBLK05 | I.BLANK | 09/02/97 | 0035 | 6.780 | 54.342 |
| 06 | | | | | | |
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| 30 | | | | | | |
| 31 | | | | | | |
| 32 | | | | | | |

QC LIMITS
TCX = Tetrachloro-m-xylene (þ 0.05 MINUTES)
DCB = Decachlorobiphenyl (þ 0.10 MINUTES)

# Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68D20041

Lab Code: CHEM Case No.: SAS No.: SDG No.: 4967CLP

GC Column: RTX5 ID: 0.53 (mm) Init. Calib. Date(s): 08/08/97

Instrument ID: CS01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.349 DCB: 53.168

| | EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | TCX RT # | DCB RT # |
|---|---|---|---|---|---|---|
| 01 | AR166001 | AR1660 | 08/07/97 | 2007 | 6.353 | 53.171 |
| 02 | AR122101 | AR1221 | 08/07/97 | 2109 | 6.351 | 53.168 |
| 03 | AR123201 | AR1232 | 08/07/97 | 2210 | 6.352 | 53.169 |
| 04 | AR124201 | AR1242 | 08/07/97 | 2311 | 6.350 | 53.168 |
| 05 | AR124801 | AR1248 | 08/08/97 | 0013 | 6.350 | 53.169 |
| 06 | AR125401 | AR1254 | 08/08/97 | 0114 | 6.351 | 53.170 |
| 07 | INDAL01 | LOWA | 08/08/97 | 0317 | 6.344 | 53.171 |
| 08 | INDBL01 | LOWB | 08/08/97 | 0418 | 6.354 | 53.170 |
| 09 | INDAM01 | MIDA | 08/08/97 | 0520 | 6.352 | 53.167 |
| 10 | INDBM01 | MIDB | 08/08/97 | 0621 | 6.350 | 53.166 |
| 11 | INDAH01 | HIGHA | 08/08/97 | 0723 | 6.350 | 53.167 |
| 12 | INDBH01 | HIGHB | 08/08/97 | 0824 | 6.351 | 53.168 |
| 13 | PIBLK01 | I.BLANK | 08/08/97 | 0925 | 6.352 | 53.171 |
| 14 | PEM01 | PEM | 08/08/97 | 1027 | 6.354 | 53.172 |
| 15 | PIBLK02 | I.BLANK | 08/14/97 | 1930 | 6.373 | 53.194 |
| 16 | AR166002 | AR1660 | 08/14/97 | 2031 | 6.359 | 53.184 |
| 17 | AR166003 | AR1660 | 08/14/97 | 2133 | 6.356 | 53.181 |
| 18 | AR166004 | AR1660 | 08/14/97 | 2234 | 6.358 | 53.181 |
| 19 | AR166005 | AR1660 | 08/14/97 | 2336 | 6.355 | 53.179 |
| 20 | AR166006 | AR1660 | 08/15/97 | 0037 | 6.355 | 53.180 |
| 21 | AR122102 | AR1221 | 08/15/97 | 0138 | 6.357 | 53.182 |
| 22 | AR123202 | AR1232 | 08/15/97 | 0240 | 6.355 | 53.181 |
| 23 | AR124202 | AR1242 | 08/15/97 | 0341 | 6.354 | 53.183 |
| 24 | AR124802 | AR1248 | 08/15/97 | 0443 | 6.359 | 53.183 |
| 25 | AR125402 | AR1254 | 08/15/97 | 0544 | 6.357 | 53.184 |
| 26 | ZZZZ | ZZZZZ | 08/15/97 | 2320 | 6.376 | 53.193 |
| 27 | PIBLK03 | I.BLANK | 08/16/97 | 0645 | 6.395 | 53.223 |
| 28 | AR166007 | AR1660 | 09/01/97 | 1319 | 6.360 | 53.174 |
| 29 | PIBLK04 | I.BLANK | 09/01/97 | 1421 | 6.364 | 53.176 |
| 30 | PBLK01 | MBLK4968 | 09/01/97 | 1522 | 6.364 | 53.179 |
| 31 | WSED(S) | 26729 | 09/01/97 | 1624 | 6.364 | 53.180 |
| 32 | WSED(D) | 26730 | 09/01/97 | 1725 | 6.365 | 53.181 |

QC LIMITS
TCX = Tetrachloro-m-xylene (þ 0.05 MINUTES)
DCB = Decachlorobiphenyl (þ 0.10 MINUTES)

# Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

000028

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68D20041

Lab Code: CHEM Case No.: SAS No.: SDG No.: 4967CLP

GC Column: RTX5 ID: 0.53 (mm) Init. Calib. Date(s): 08/08/97

Instrument ID: CS01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.349 DCB: 53.168

| | EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | TCX RT # | DCB RT # |
|---|---|---|---|---|---|---|
| 01 | RB-1 | 26731 | 09/01/97 | 1826 | 6.366 | 53.181 |
| 02 | WSED(D)MS | 26732 | 09/01/97 | 1928 | 6.366 | 53.185 |
| 03 | WSED(D)MSD | 26733 | 09/01/97 | 2232 | 6.368 | 53.185 |
| 04 | AR166008 | AR1660 | 09/01/97 | 2334 | 6.368 | 53.185 |
| 05 | PIBLK05 | I.BLANK | 09/02/97 | 0035 | 6.367 | 53.187 |
| 06 | | | | | | |
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| 31 | | | | | | |
| 32 | | | | | | |

QC LIMITS
TCX = Tetrachloro-m-xylene (þ 0.05 MINUTES)
DCB = Decachlorobiphenyl (þ 0.10 MINUTES)

# Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

000029

Method: C:\HPCHEM\1\METHODS\ARPCBFB.MTH

Calibration Table

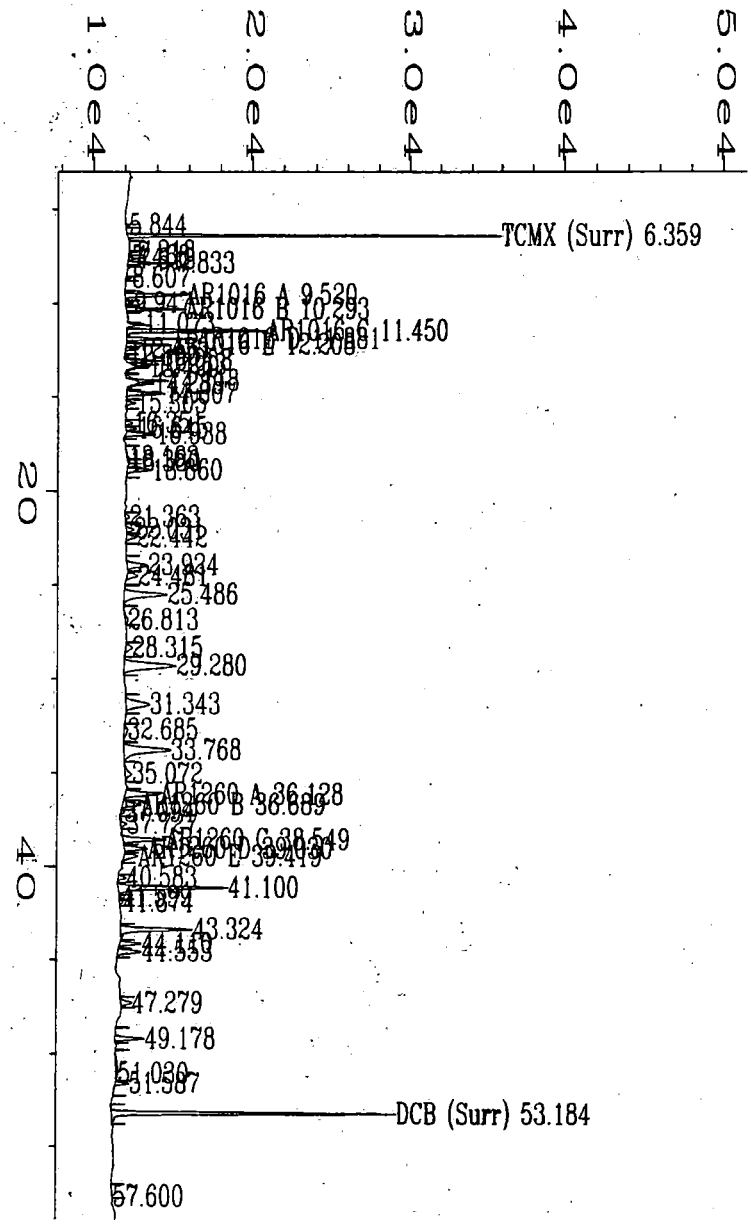
| Pk# | RT | Lvl | ppb | Amt/Area | Ref Istd | I# | Name |
|---|---|---|---|---|---|---|---|
| 1 | 6.359 | 1 | 20.0 | 1.9785e-004 | | 1 | TCMX (Surr) |
| 2 | 7.218 | 6 | 500.0 | 1.1091e-002 | | 1 | AR1221 A |
| 3 | 7.610 | 6 | 500.0 | 1.6606e-002 | | 1 | AR1221 B |
| 4 | 7.832 | 6 | 500.0 | 4.592e-003 | | 1 | AR1221 C |
| 5 | 9.520 | 1 | 100.0 | 0.0033 | | 1 | AR1016 A |
| | | 2 | 250.0 | 3.7915e-003 | | | |
| | | 3 | 500.0 | 3.5429e-003 | | | |
| | | 4 | 1000.0 | 4.5422e-003 | | | |
| | | 5 | 2000.0 | 5.0964e-003 | | | |
| 6 | 9.945 | 7 | 500.0 | 4.4153e-002 | | 1 | AR1232 A |
| 7 | 10.293 | 1 | 100.0 | 5.3113e-003 | | 1 | AR1016 B |
| | | 2 | 250.0 | 5.937e-003 | | | |
| | | 3 | 500.0 | 5.4416e-003 | | | |
| | | 4 | 1000.0 | 6.8784e-003 | | | |
| | | 5 | 2000.0 | 7.5957e-003 | | | |
| 8 | 11.071 | 7 | 500.0 | 4.4163e-002 | | 1 | AR1232 B |
| 9 | 11.450 | 1 | 100.0 | 1.6889e-003 | | 1 | AR1016 C |
| | | 2 | 250.0 | 1.9077e-003 | | | |
| | | 3 | 500.0 | 1.7897e-003 | | | |
| | | 4 | 1000.0 | 2.2854e-003 | | | |
| | | 5 | 2000.0 | 2.514e-003 | | | |
| 10 | 11.881 | 1 | 100.0 | 4.125e-003 | | 1 | AR1016 D |
| | | 2 | 250.0 | 4.5184e-003 | | | |
| | | 3 | 500.0 | 4.1857e-003 | | | |
| | | 4 | 1000.0 | 5.3575e-003 | | | |
| | | 5 | 2000.0 | 5.8866e-003 | | | |
| 11 | 12.208 | 1 | 100.0 | 6.4828e-003 | | 1 | AR1016 E |
| | | 2 | 250.0 | 6.9044e-003 | | | |
| | | 3 | 500.0 | 6.1722e-003 | | | |
| | | 4 | 1000.0 | 7.7552e-003 | | | |
| | | 5 | 2000.0 | 8.341e-003 | | | |
| 12 | 12.429 | 7 | 500.0 | 3.4142e-002 | | 1 | AR1232 C |
| 13 | 13.055 | 7 | 500.0 | 1.1667e-002 | | 1 | AR1232 D |
| 14 | 13.260 | 7 | 500.0 | 1.7963e-002 | | 1 | AR1232 E |
| 15 | 14.114 | 8 | 500.0 | 1.2936e-002 | | 1 | AR1242 A |
| 16 | 14.804 | 8 | 500.0 | 7.4264e-003 | | 1 | AR1242 B |
| 17 | 15.300 | 8 | 500.0 | 3.0909e-002 | | 1 | AR1242 C |
| 18 | 16.349 | 8 | 500.0 | 1.5528e-002 | | 1 | AR1242 D |
| 19 | 16.644 | 10 | 500.0 | 1.1249e-002 | | 1 | AR1254 A |
| 20 | 17.421 | 8 | 500.0 | 8.0083e-002 | | 1 | AR1242 E |
| 21 | 18.174 | 9 | 500.0 | 3.2487e-003 | | 1 | AR1248 A |
| 22 | 18.580 | 9 | 500.0 | 3.1375e-002 | | 1 | AR1248 B |
| 23 | 18.859 | 9 | 500.0 | 9.6761e-003 | | 1 | AR1248 C |
| 24 | 19.300 | 10 | 500.0 | 9.4214e-003 | | 1 | AR1254 B |
| 25 | 20.313 | 9 | 500.0 | 7.1121e-002 | | 1 | AR1248 D |
| 26 | 20.823 | 10 | 500.0 | 9.5818e-003 | | 1 | AR1254 C |
| 27 | 21.365 | 10 | 500.0 | 4.639e-003 | | 1 | AR1254 D |
| 28 | 21.775 | 9 | 500.0 | 1.5711e-002 | | 1 | AR1248 E |
| 29 | 31.324 | 10 | 500.0 | 1.0208e-002 | | 1 | AR1254 E |
| 30 | 36.128 | 1 | 100.0 | 3.3755e-003 | | 1 | AR1260 A |
| | | 2 | 250.0 | 3.6937e-003 | | | |
| | | 3 | 500.0 | 2.5797e-003 | | | |
| | | 4 | 1000.0 | 4.2124e-003 | | | |
| | | 5 | 2000.0 | 4.5961e-003 | | | |
| 31 | 36.689 | 1 | 100.0 | 6.8527e-003 | | 1 | AR1260 B |
| | | 2 | 250.0 | 7.1393e-003 | | | |

| | | | | | |
|---|---|---|---|---|---|
| | | 3 | 500.0 | 4.7483e-003 | |
| | | 4 | 1000.0 | 7.743e-003 | |
| | | 5 | 2000.0 | 8.2189e-003 | |
| 32 | 38.549 | 1 | 100.0 | 3.3941e-003 | 1 AR1260 C |
| | | 2 | 250.0 | 3.4834e-003 | |
| | | 3 | 500.0 | 2.3869e-003 | |
| | | 4 | 1000.0 | 3.8611e-003 | |
| | | 5 | 2000.0 | 4.1943e-003 | |
| 33 | 39.030 | 1 | 100.0 | 0.00649 | 1 AR1260 D |
| | | 2 | 250.0 | 7.094e-003 | |
| | | 3 | 500.0 | 4.8496e-003 | |
| | | 4 | 1000.0 | 7.855e-003 | |
| | | 5 | 2000.0 | 8.4233e-003 | |
| 34 | 39.419 | 1 | 100.0 | 8.3698e-003 | 1 AR1260 E |
| | | 2 | 250.0 | 8.9476e-003 | |
| | | 3 | 500.0 | 5.834e-003 | |
| | | 4 | 1000.0 | 9.3817e-003 | |
| | | 5 | 2000.0 | 9.7764e-003 | |
| 35 | 53.184 | 1 | 20.0 | 1.5305e-004 | 1 DCB (Surr) |

Calibration Table

| Pk# | RT | Lvl | ppb | Amt/Area | Ref Istd I# | Name |
|---|---|---|---|---|---|---|
| 1 | 6.772 | 1 | 20.0 | 2.6358e-004 | 1 | TCMX (Surr) |
| 2 | 8.301 | 6 | 500.0 | 1.4115e-002 | 1 | AR1221 A |
| 3 | 8.983 | 6 | 500.0 | 2.0642e-002 | 1 | AR1221 B |
| 4 | 9.221 | 6 | 500.0 | 5.9055e-003 | 1 | AR1221 C |
| 5 | 11.003 | 1 | 100.0 | 4.7705e-003 | 1 | AR1016 A |
| | | 2 | 250.0 | 5.2192e-003 | | |
| | | 3 | 500.0 | 5.5994e-003 | | |
| | | 4 | 1000.0 | 6.1036e-003 | | |
| | | 5 | 2000.0 | 7.1327e-003 | | |
| 6 | 12.088 | 1 | 100.0 | 9.3539e-003 | 1 | AR1016 B |
| | | 2 | 250.0 | 1.1653e-002 | | |
| | | 3 | 500.0 | 1.1833e-002 | | |
| | | 4 | 1000.0 | 1.2075e-002 | | |
| | | 5 | 2000.0 | 1.4485e-002 | | |
| 7 | 12.701 | 1 | 100.0 | 1.4676e-002 | 1 | AR1016 C |
| | | 2 | 250.0 | 1.6481e-002 | | |
| | | 3 | 500.0 | 1.6567e-002 | | |
| | | 4 | 1000.0 | 1.7935e-002 | | |
| | | 5 | 2000.0 | 1.9192e-002 | | |
| 8 | 13.096 | 1 | 100.0 | 2.1951e-003 | 1 | AR1016 D |
| | | 2 | 250.0 | 2.4255e-003 | | |
| | | 3 | 500.0 | 2.5559e-003 | | |
| | | 4 | 1000.0 | 2.9489e-003 | | |
| | | 5 | 2000.0 | 3.2317e-003 | | |
| 9 | 13.817 | 1 | 100.0 | 5.1522e-003 | 1 | AR1016 E |
| | | 2 | 250.0 | 5.3096e-003 | | |
| | | 3 | 500.0 | 4.8564e-003 | | |
| | | 4 | 1000.0 | 6.1656e-003 | | |
| | | 5 | 2000.0 | 6.4389e-003 | | |
| 10 | 14.399 | 7 | 500.0 | 0.01262 | 1 | AR1232 A |
| 11 | 15.248 | 7 | 500.0 | 4.5865e-003 | 1 | AR1232 B |
| 12 | 17.631 | 7 | 500.0 | 5.2652e-003 | 1 | AR1232 C |
| 13 | 18.977 | 7 | 500.0 | 3.1721e-002 | 1 | AR1232 D |
| 14 | 19.319 | 7 | 500.0 | 1.6725e-002 | 1 | AR1232 E |
| 15 | 21.871 | 10 | 500.0 | 2.1373e-002 | 1 | AR1254 A |
| 16 | 22.932 | 8 | 500.0 | 3.7232e-002 | 1 | AR1242 A |
| 17 | 24.997 | 8 | 500.0 | 0.10099 | 1 | AR1242 B |
| 18 | 25.663 | 10 | 500.0 | 9.7152e-003 | 1 | AR1254 B |
| 19 | 26.797 | 8 | 500.0 | 2.8124e-002 | 1 | AR1242 C |
| 20 | 28.528 | 8 | 500.0 | 2.6766e-002 | 1 | AR1242 D |
| 21 | 32.722 | 8 | 500.0 | 0.0094 | 1 | AR1242 E |
| 22 | 34.033 | 9 | 500.0 | 6.0749e-002 | 1 | AR1248 A |
| 23 | 35.079 | 10 | 500.0 | 5.2388e-003 | 1 | AR1254 C |
| 24 | 36.332 | 10 | 500.0 | 8.6252e-003 | 1 | AR1254 D |
| 25 | 37.125 | 10 | 500.0 | 5.9574e-003 | 1 | AR1254 E |
| 26 | 37.134 | 9 | 500.0 | 6.9678e-003 | 1 | AR1248 B |
| 27 | 38.794 | 1 | 100.0 | 1.4186e-003 | 1 | AR1260 A |
| | | 2 | 250.0 | 1.9181e-003 | | |
| | | 3 | 500.0 | 1.9063e-003 | | |
| | | 4 | 1000.0 | 2.1486e-003 | | |
| | | 5 | 2000.0 | 2.3209e-003 | | |
| 28 | 39.508 | 1 | 100.0 | 2.5525e-003 | 1 | AR1260 B |
| | | 2 | 250.0 | 4.237e-003 | | |
| | | 3 | 500.0 | 4.2249e-003 | | |
| | | 4 | 1000.0 | 4.7837e-003 | | |
| | | 5 | 2000.0 | 5.1208e-003 | | |

| | | | | | |
|---|---|---|---|---|---|
| 29 | 39.832 | 1 | 100.0 | 2.8387e-003 | 1 AR1260 C |
| | | 2 | 250.0 | 7.4985e-003 | |
| | | 3 | 500.0 | 7.4184e-003 | |
| | | 4 | 1000.0 | 8.0182e-003 | |
| | | 5 | 2000.0 | 7.9455e-003 | |
| 30 | 41.706 | 9 | 500.0 | 0.15414 | 1 AR1248 C |
| 31 | 41.938 | 1 | 100.0 | 3.3449e-003 | 1 AR1260 D |
| | | 2 | 250.0 | 3.5968e-003 | |
| | | 3 | 500.0 | 3.6382e-003 | |
| | | 4 | 1000.0 | 0.00403 | |
| | | 5 | 2000.0 | 4.3775e-003 | |
| 32 | 42.333 | 1 | 100.0 | 6.1662e-003 | 1 AR1260 E |
| | | 2 | 250.0 | 7.7884e-003 | |
| | | 3 | 500.0 | 7.7147e-003 | |
| | | 4 | 1000.0 | 8.4807e-003 | |
| | | 5 | 2000.0 | 9.1276e-003 | |
| 33 | 43.566 | 9 | 500.0 | 0.14488 | 1 AR1248 D |
| 34 | 44.362 | 9 | 500.0 | 5.5942e-002 | 1 AR1248 E |
| 35 | 54.339 | 1 | 20.0 | 1.6586e-004 | 1 DCB (Surr) |

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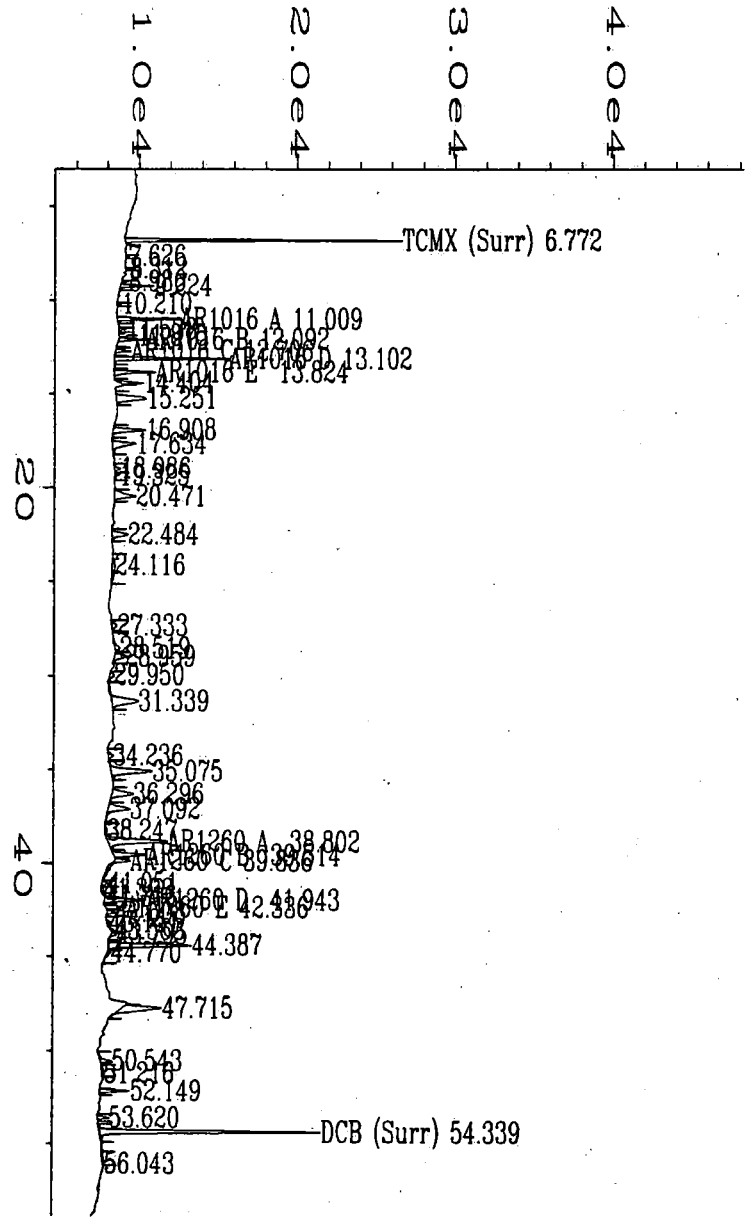
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 2 |
| Sample Name | : AR1660 100PPB | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 14 Aug 97 08:31 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 29 Aug 97 12:33 PM | Analysis Method | : ARPCBFB.MTH |
| Last Recalib on | : 29 AUG 97 10:32 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |

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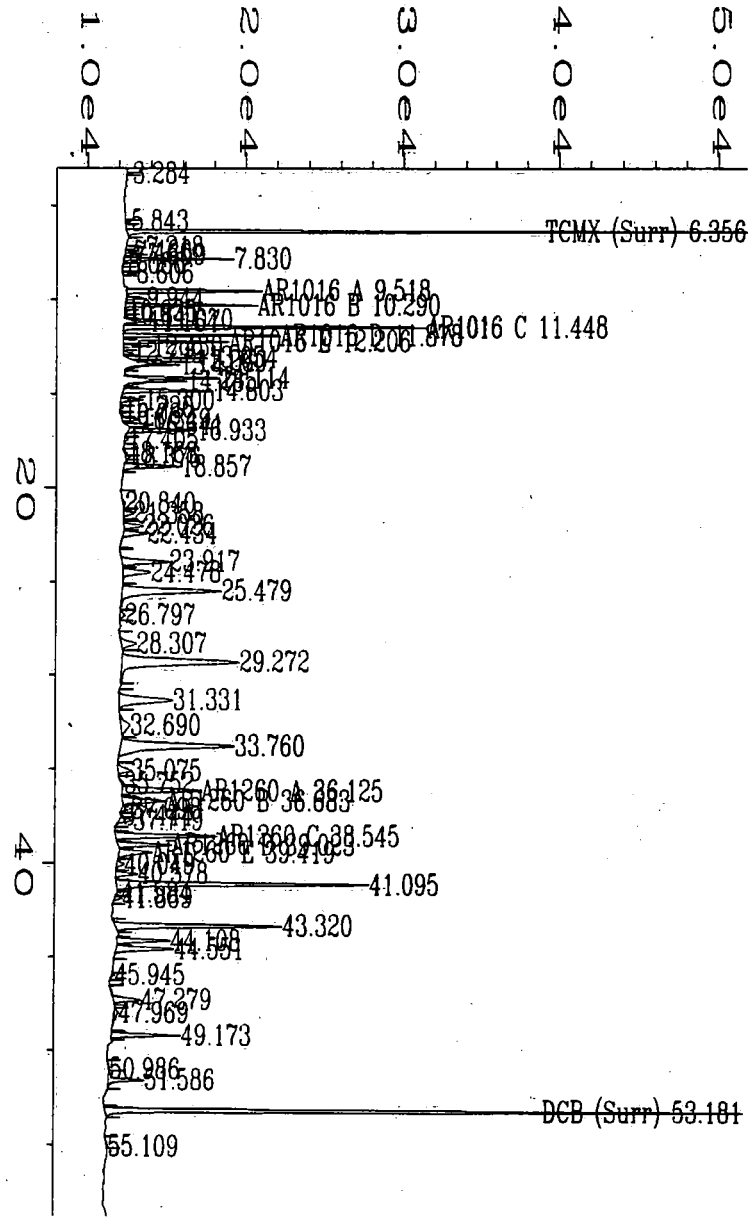
| Data File Name | : C:\HPCHEM\1\DATA\970814AP\002R0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 2 |
| Sample Name | : AR1660 100PPB | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 14 Aug 97 08:31 PM | Instrument Method: | RK11.MTH |
| Report Created on: | 29 Aug 97 11:26 AM | Analysis Method | : ARPCBRB.MTH |

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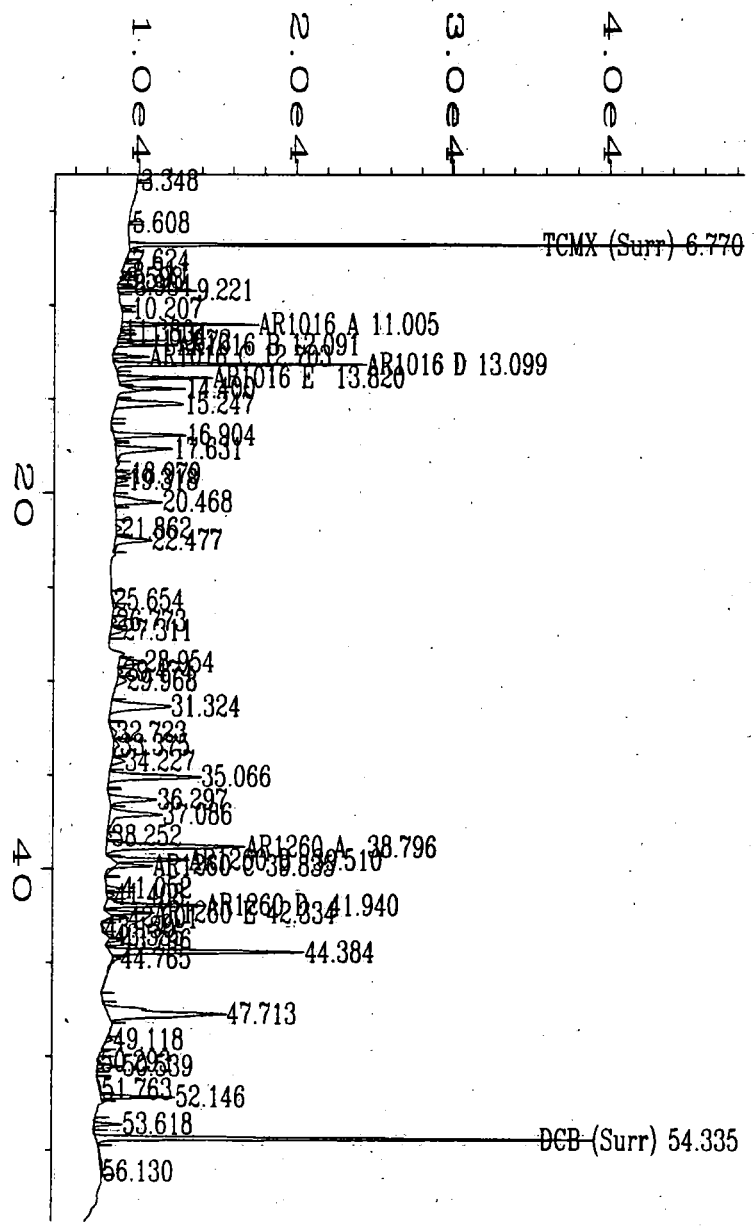
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 3 |
| Sample Name | : AR1660 250PPB | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 14 Aug 97 09:33 PM | Instrument Method | : RK11.MTH |
| Report Created on: | 29 Aug 97 12:33 PM | Analysis Method | : ARPCBFB.MTH |
| Last Recalib on | : 29 AUG 97 10:32 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | |

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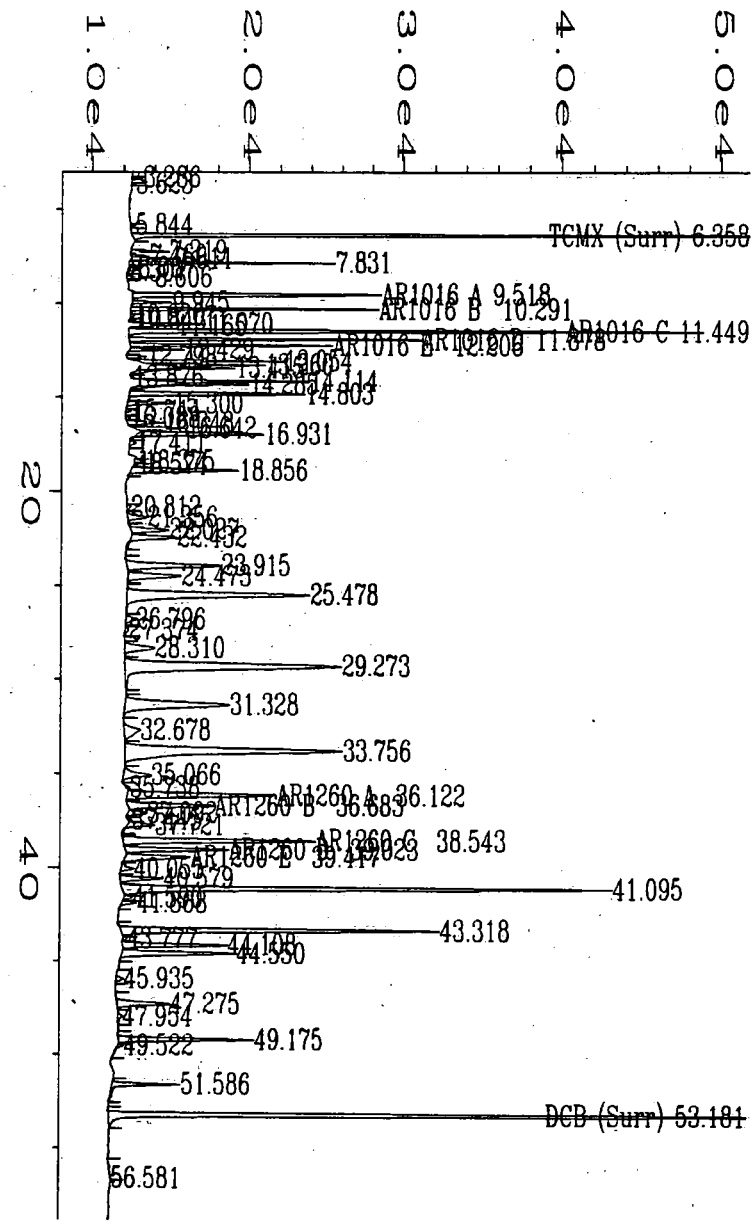
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 3 |
| Sample Name | : AR1660 250PPB | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 14 Aug 97 09:33 PM | Instrument Method: | RK11.MTH |
| Report Created on: | 29 Aug 97 11:28 AM | Analysis Method | : ARPCBRB.MTH |

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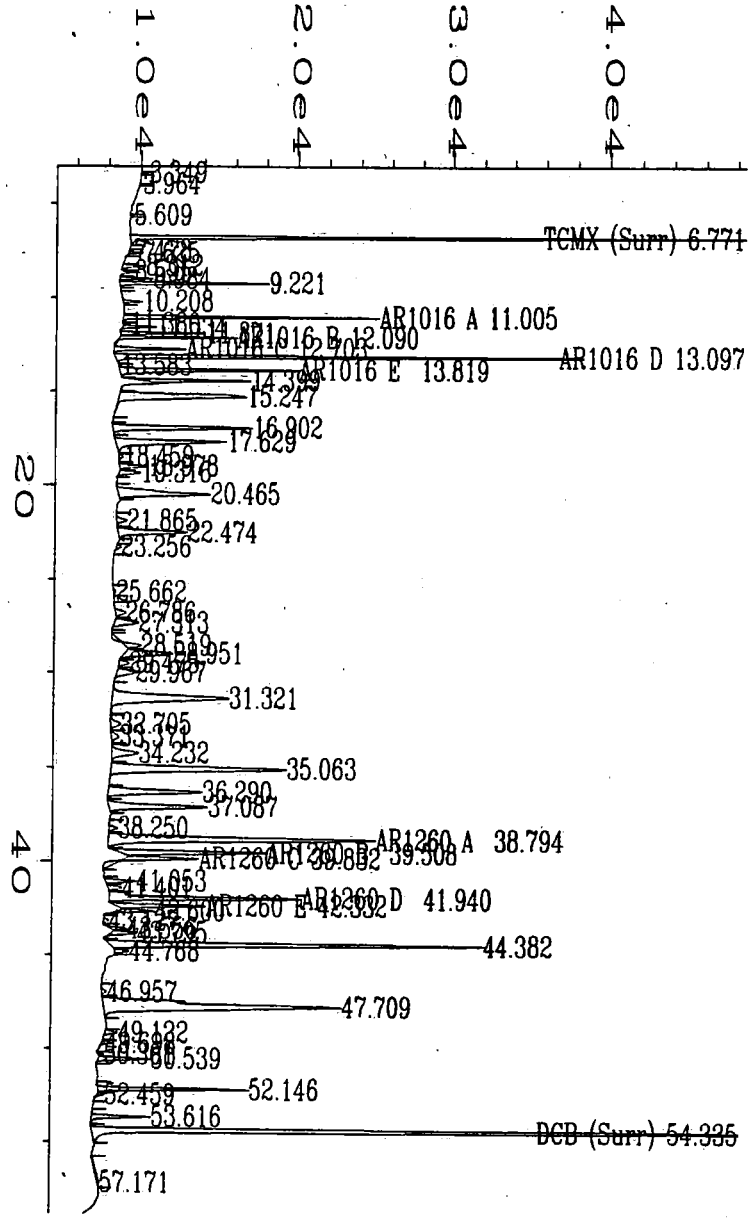
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 4 |
| Sample Name | : AR1660 500PPB | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 14 Aug 97 10:34 PM | Instrument Method: | RK11.MTH |
| Report Created on: | 29 Aug 97 08:43 AM | Analysis Method | : ARPCBFB.MTH |

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| Data File Name | : C:\HPCHEM\1\DATA\970814AP\004R0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 4 |
| Sample Name | : AR1660 500PPB | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 14 Aug 97 10:34 PM | Instrument Method | : RK11.MTH |
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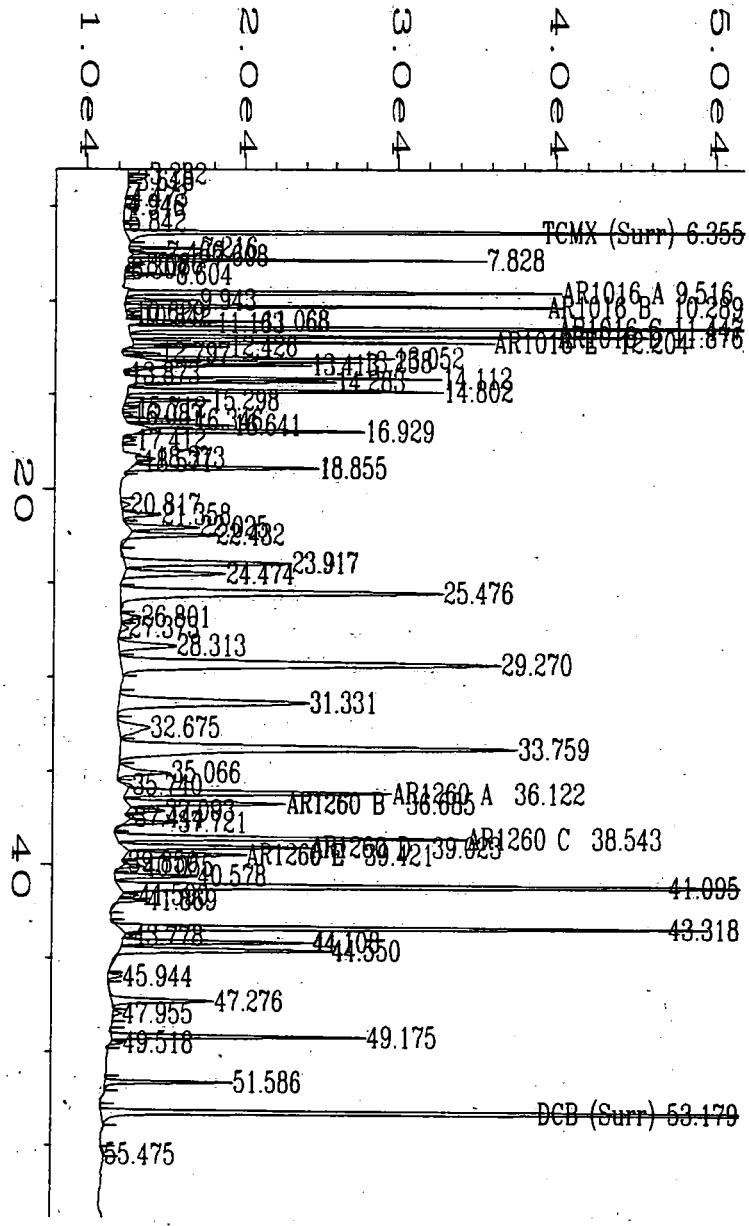


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| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 5 |
| Sample Name | : AR1660 1000PPB | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 14 Aug 97 11:36 PM | Instrument Method: | RK11.MTH |
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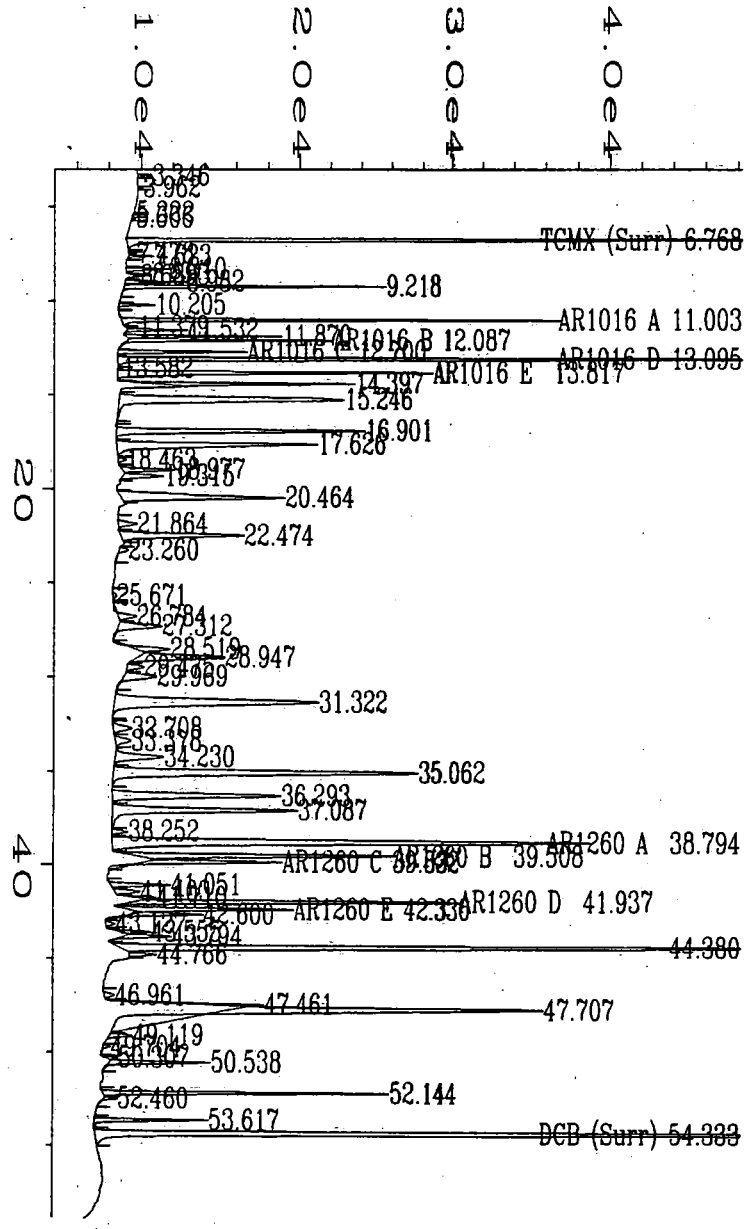


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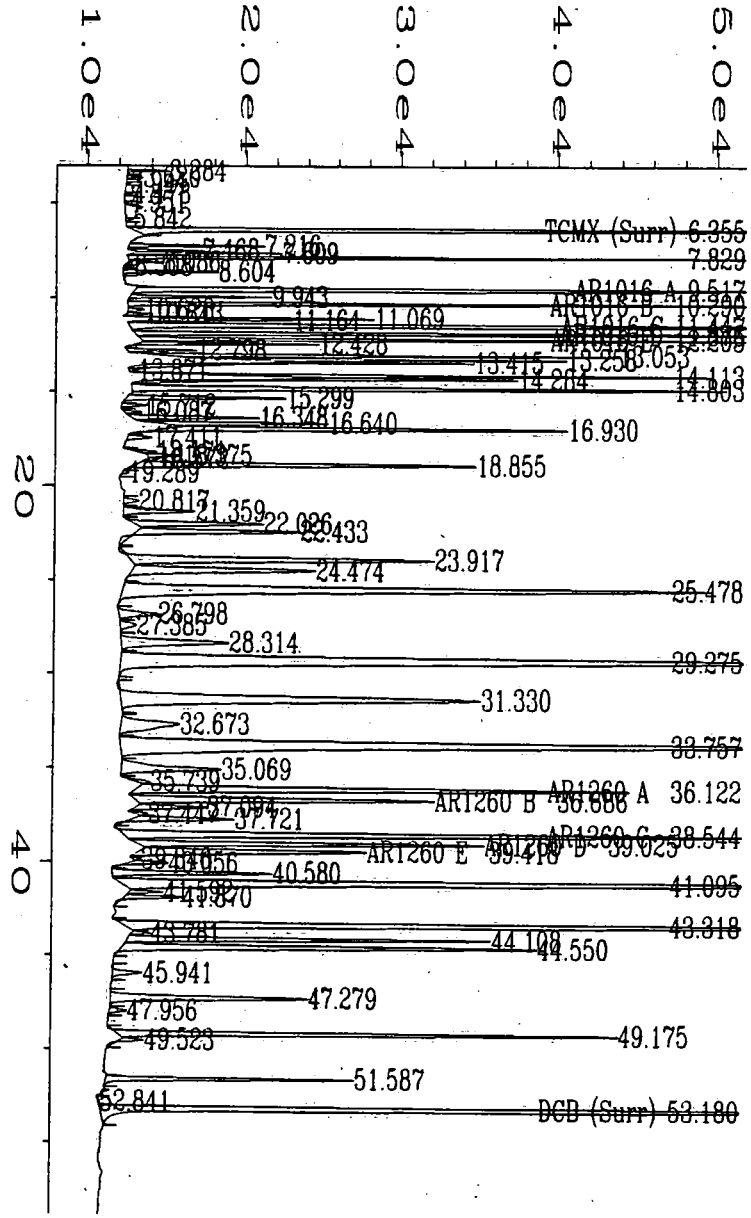
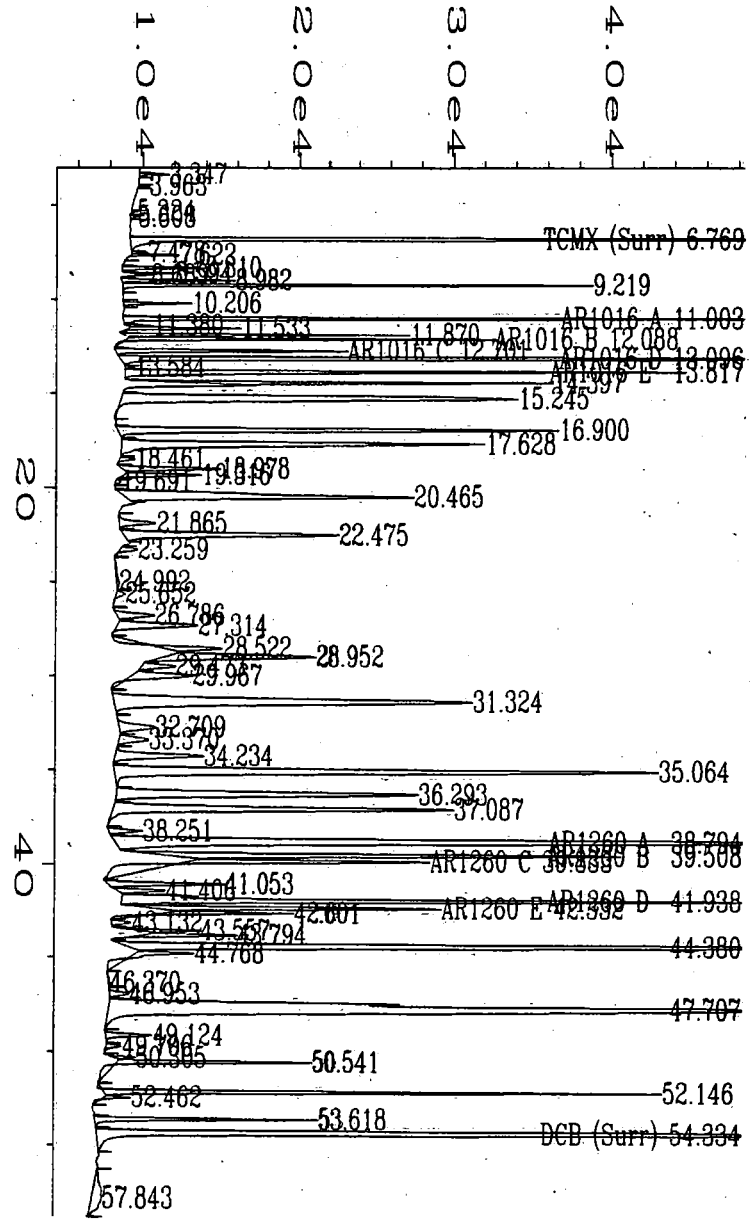
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 5 |
| Sample Name | : AR1660 1000PPB | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 14 Aug 97 11:36 PM | Instrument Method: | RK11.MTH |
| Report Created on: | 29 Aug 97 11:31 AM | Analysis Method | : ARPCBRB.MTH |




Data File Name : C:\HPCHEM\1\DATA\970814AP\006F0101.D
Operator : RK/AA
Instrument : INSTRUMEN
Sample Name : AR1660 2000PPB
Run Time Bar Code:
Acquired on : 15 Aug 97 00:37 AM
Report Created on: 29 Aug 97 09:37 AM

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: RK11.MTH
Analysis Method : ARPCBFB.MTH

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| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 6 |
| Sample Name | : AR1660 2000PPB | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
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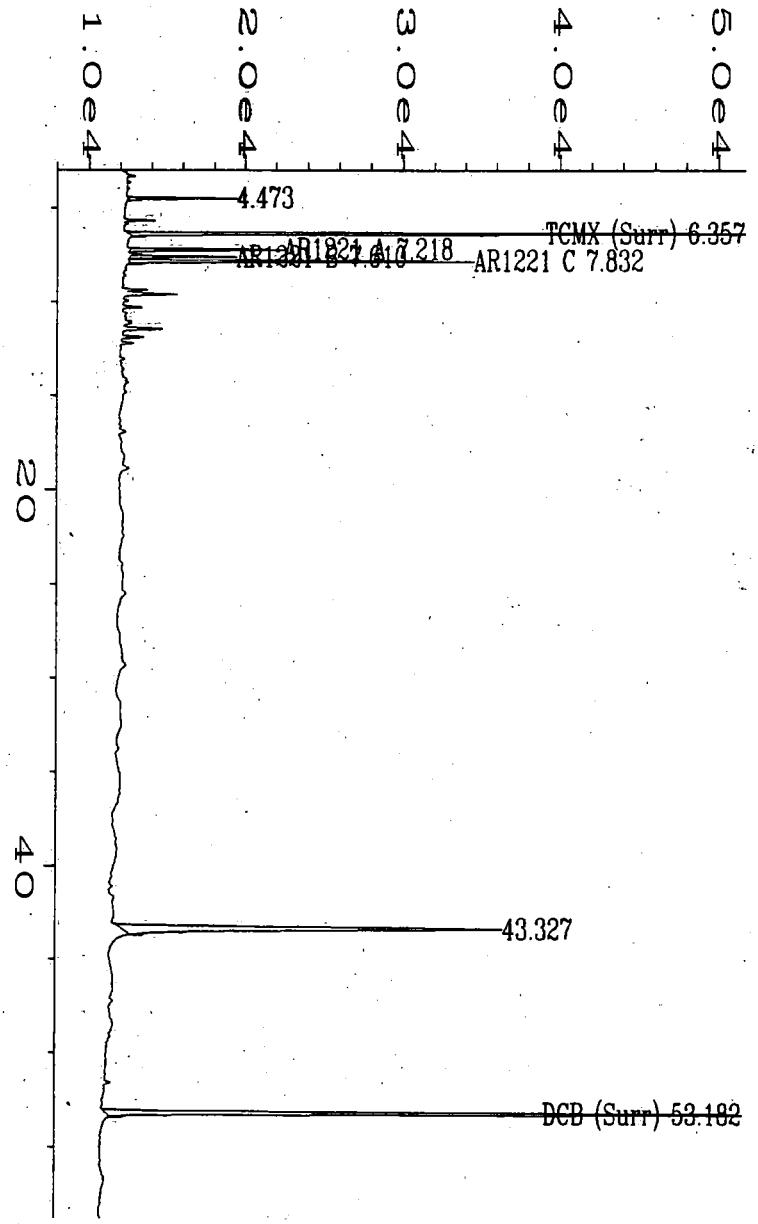
| Report Created on | : 29 Aug 97 11:32 AM | Analysis Method | : ARPCBRB.MTH |

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| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 7 |
| Sample Name | : AR1221 500PPB | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
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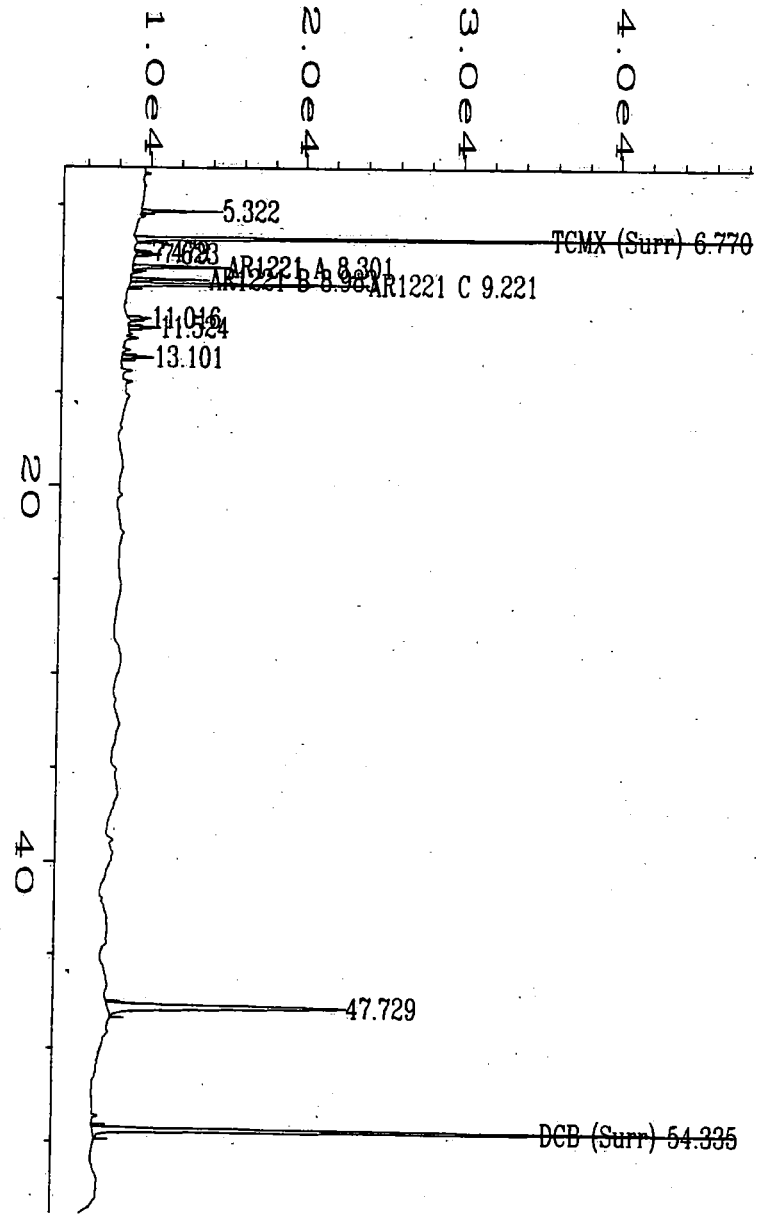
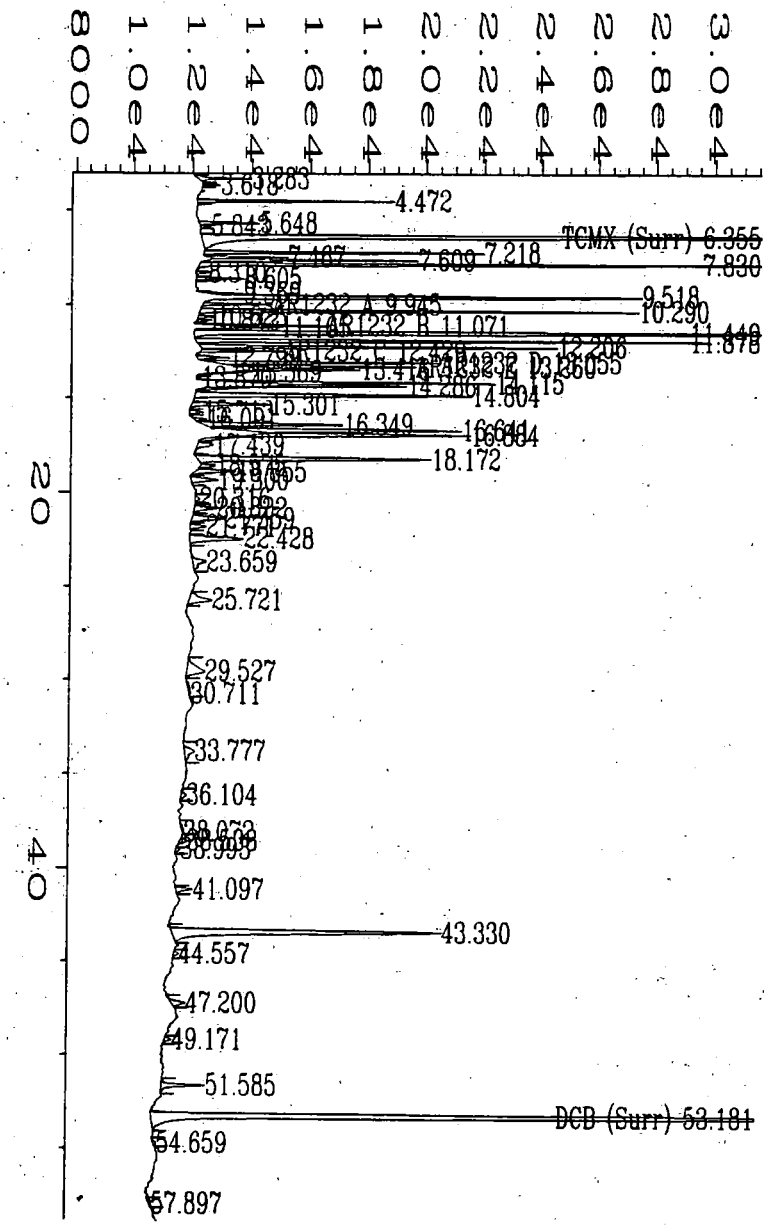
| Report Created on | : 29 Aug 97 09:45 AM | Analysis Method | : ARPCBFB.MTH |



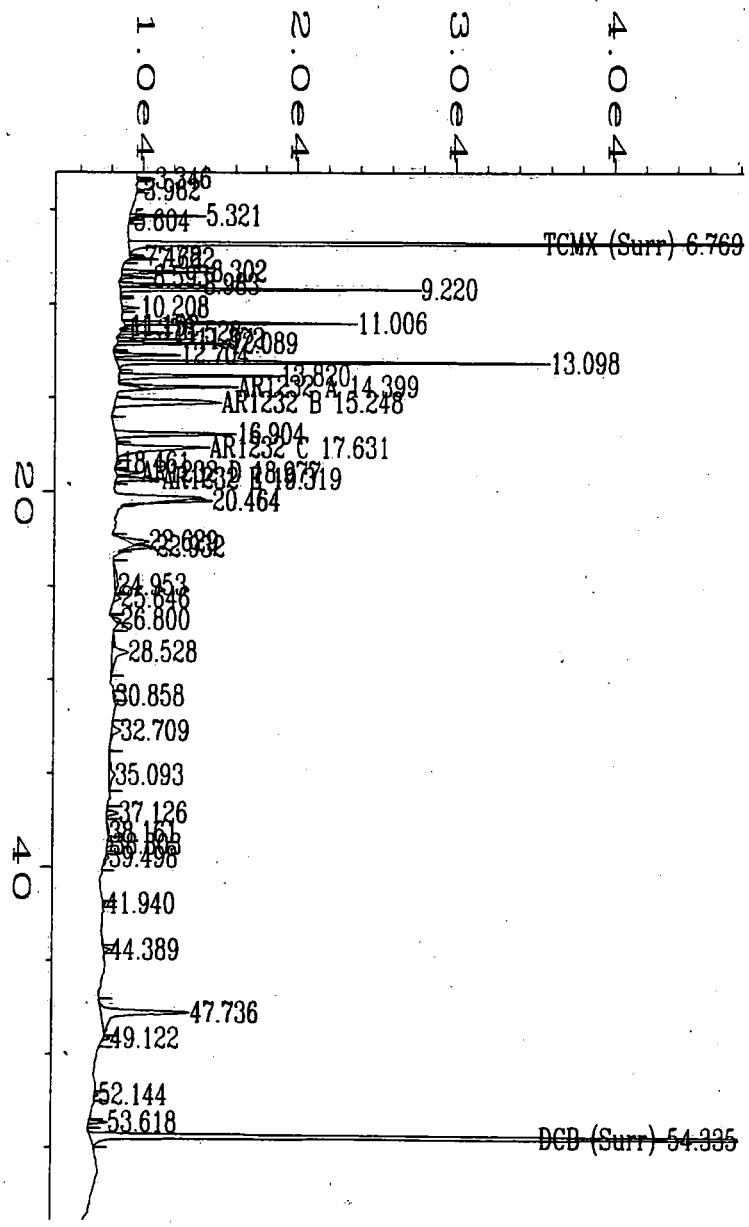

Data File Name : C:\HPCHEM\1\DATA\970814AP\007R0101.D
Operator : RK/AA
Instrument : INSTRUMEN
Sample Name : AR1221 500PPB
Run Time Bar Code:
Acquired on : 15 Aug 97 01:38 AM
Report Created on: 29 Aug 97 11:50 AM

Page Number : 1
Vial Number : 7
Injection Number : 1
Sequence Line : 1
Instrument Method: RK11.MTH
Analysis Method : ARPCBRB.MTH




Data File Name : C:\HPCHEM\1\DATA\970814AP\008F0101.D
Operator : RK/AA
Instrument : INSTRUMEN
Sample Name : AR1232 500PPB
Run Time Bar Code:
Acquired on : 15 Aug 97 02:40 AM
Report Created on: 29 Aug 97 09:50 AM

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: RK11.MTH
Analysis Method : ARPCBFB.MTH

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|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970814AP\008R0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 8 |
| Sample Name | : AR1232 500PPB | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 15 Aug 97 02:40 AM | Instrument Method | : RK11.MTH |
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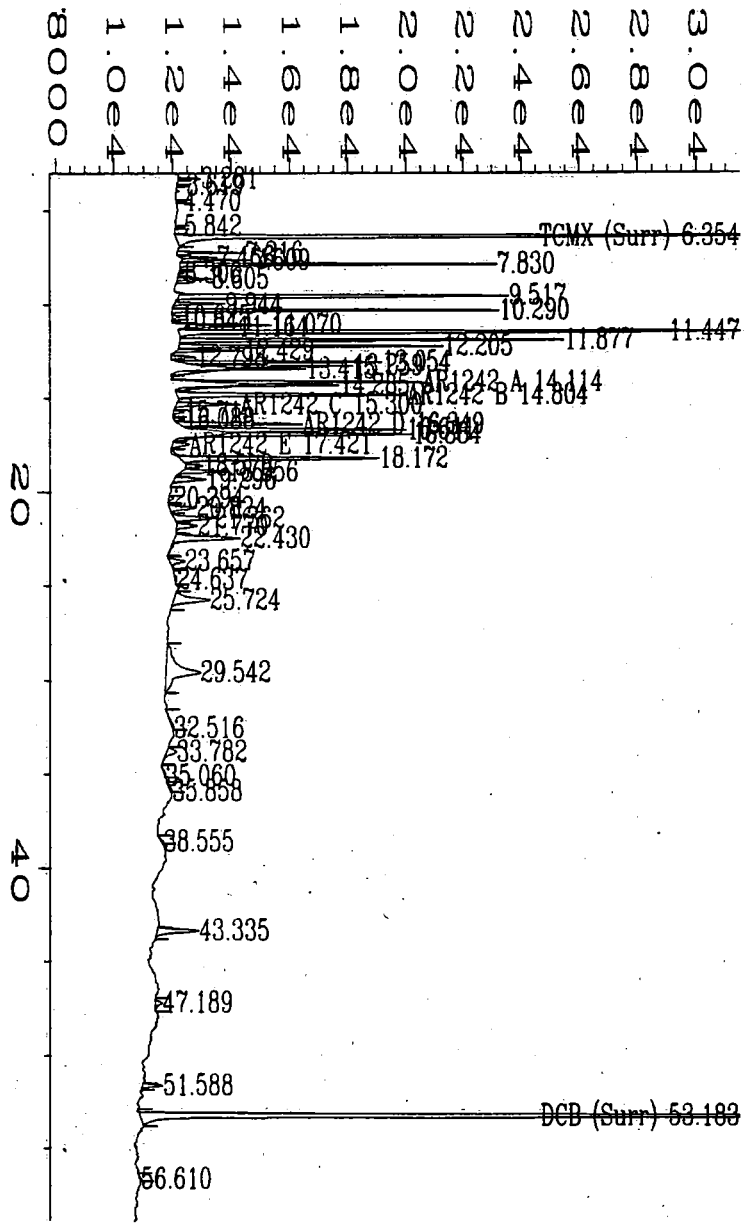


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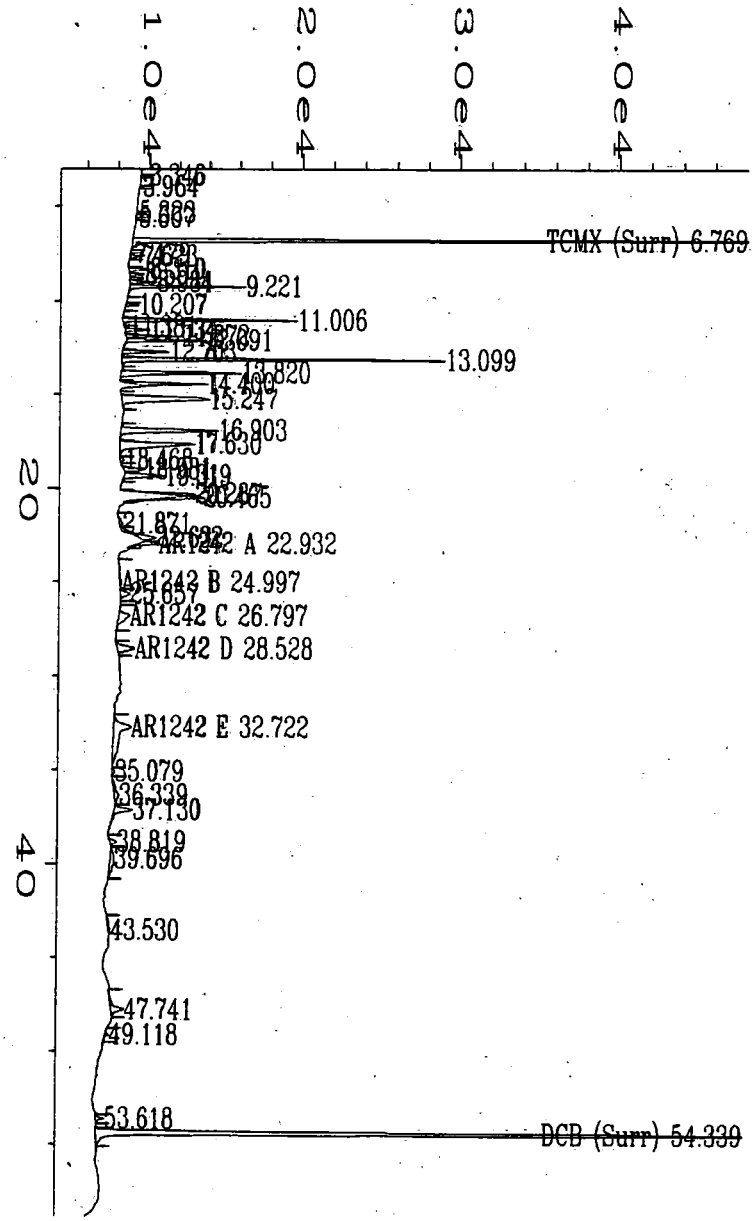
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970814AP\009F0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 9 |
| Sample Name | : AR1242 500PPB | Injection Number | : 1 |
| Run Time Bar Code | : | Sequence Line | : 1 |
| Acquired on | : 15 Aug 97 03:41 AM | Instrument Method | : RK11.MTH |
| Report Created on | : 29 Aug 97 09:55 AM | Analysis Method | : ARPCBFB.MTH |

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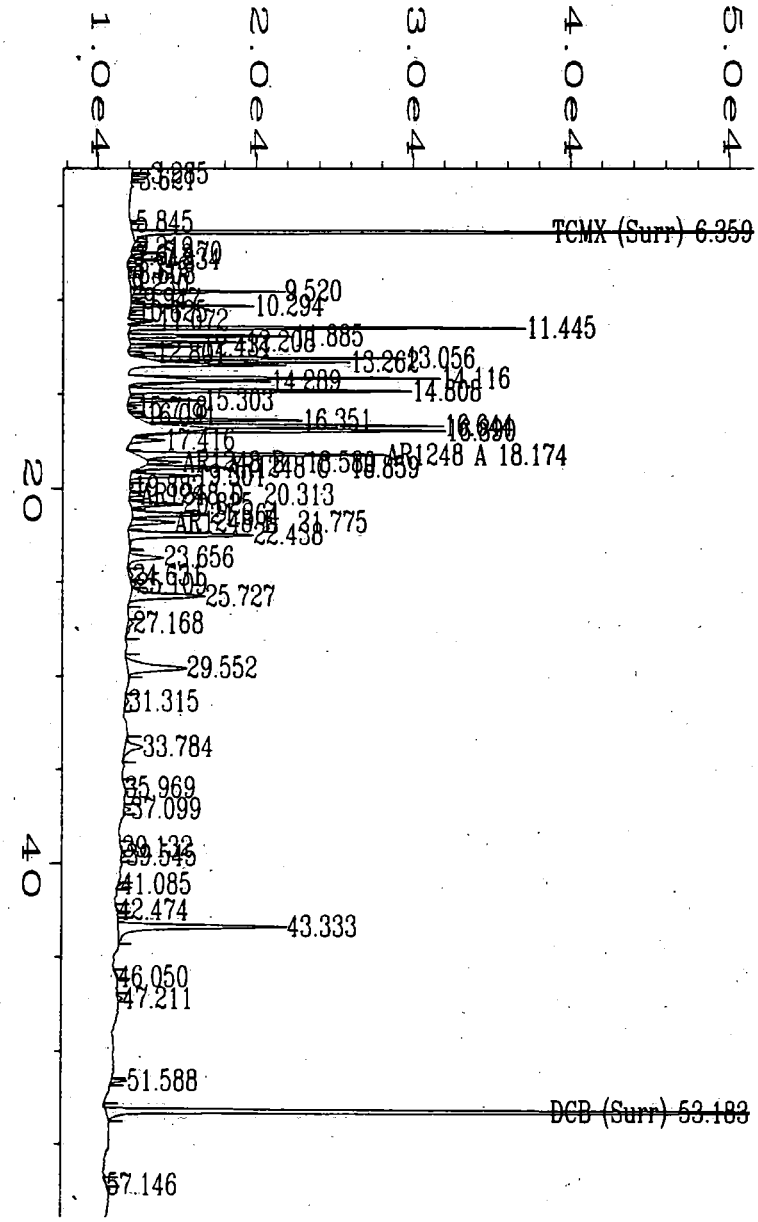
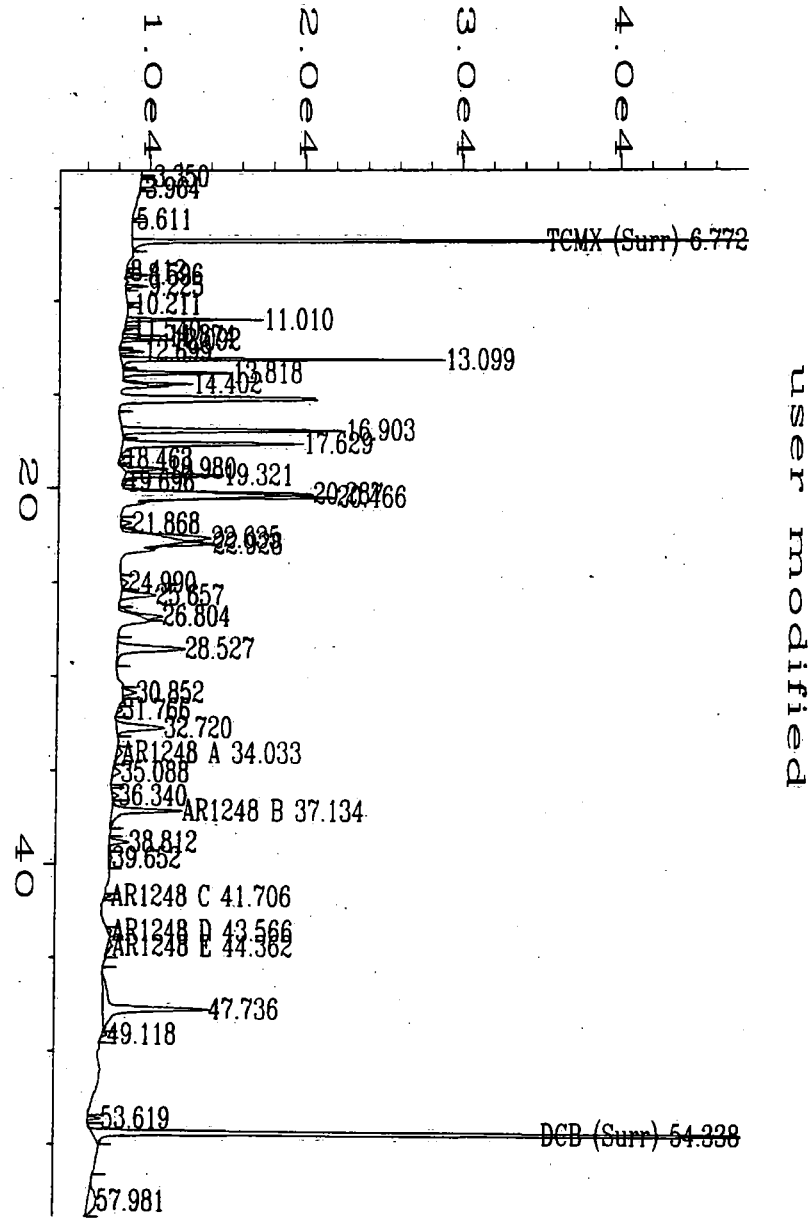
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970814AP\009R0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 9 |
| Sample Name | : AR1242 500PPB | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 15 Aug 97 03:41 AM | Instrument Method | : RK11.MTH |
| Report Created on: | 29 Aug 97 11:58 AM | Analysis Method | : ARPCBRB.MTH |

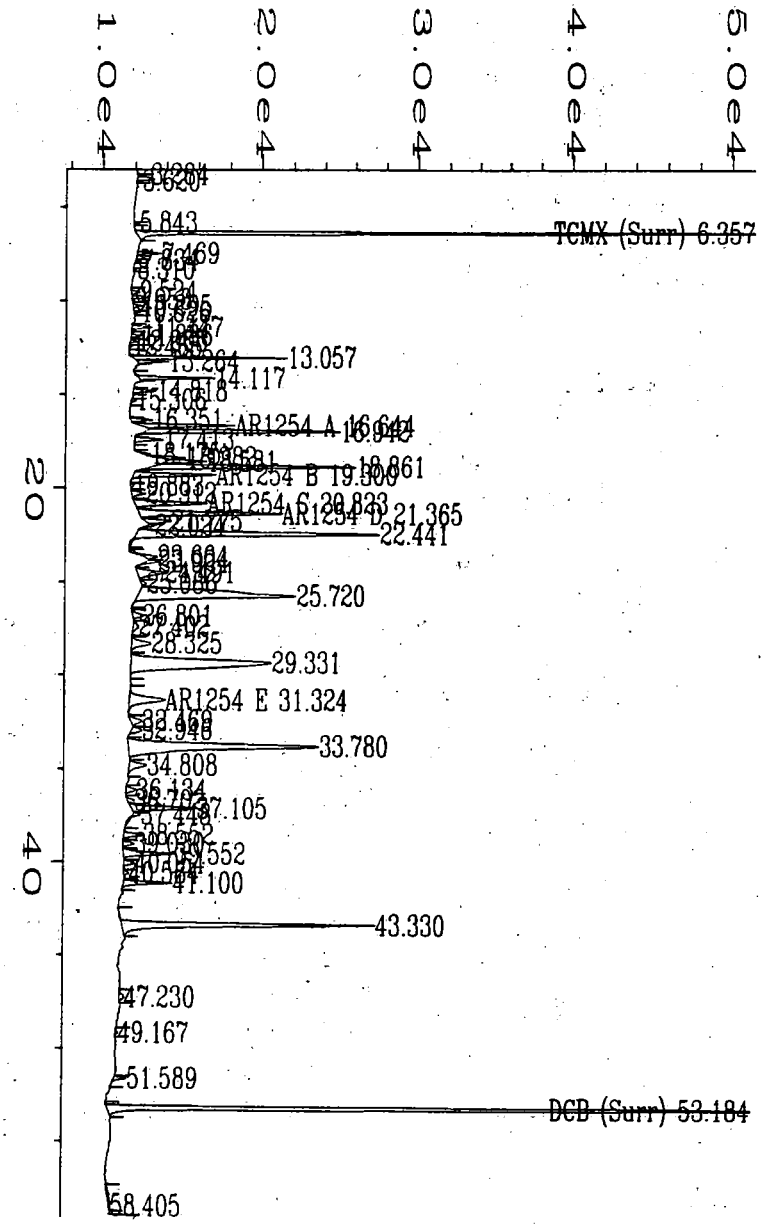



| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970814AP\010F0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 10 |
| Sample Name | : AR1248 500PPB | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 15 Aug 97 04:43 AM | Instrument Method | : RK11.MTH |
| Report Created on: | 29 Aug 97 10:01 AM | Analysis Method | : ARPCBFB.MTH |



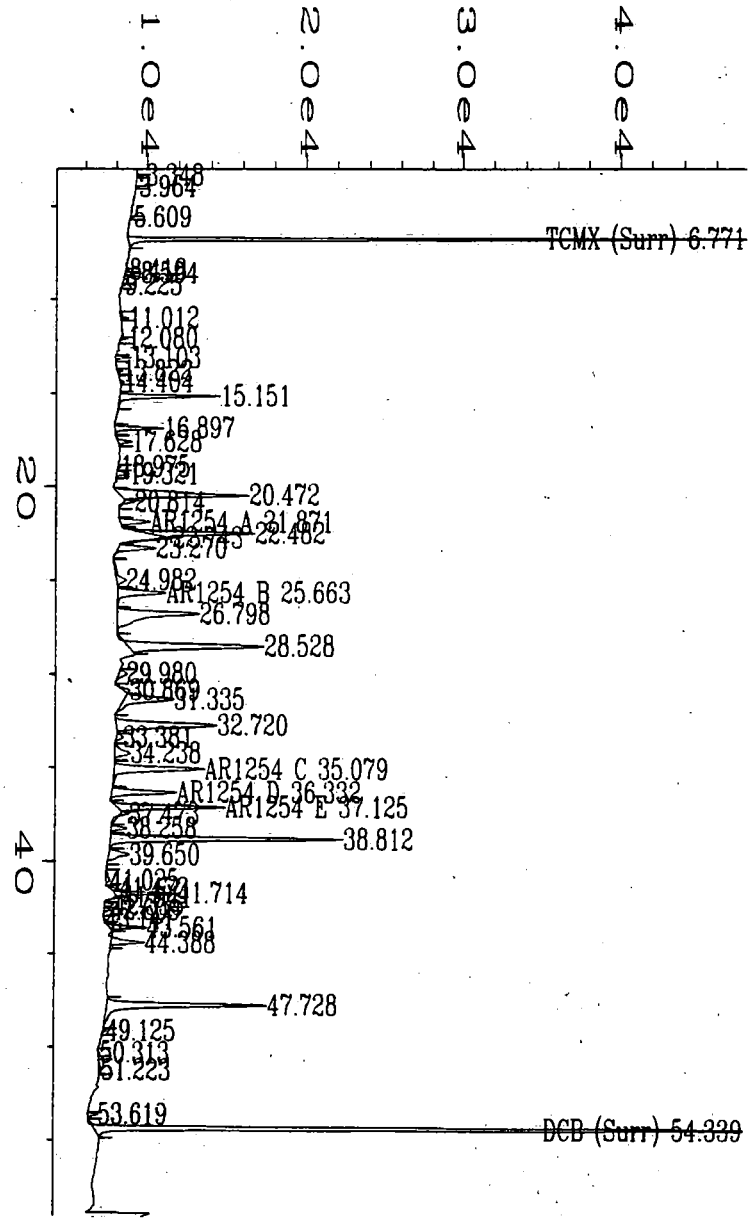

Data File Name : C:\HPCHEM\1\DATA\970814AP\010R0101.D
Operator : RK/AA
Instrument : INSTRUMEN
Sample Name : AR1248 500PPB
Run Time Bar Code:
Acquired on : 15 Aug 97 04:43 AM
Report Created on: 29 Aug 97 12:04 PM

Page Number : 1
Vial Number : 10
Injection Number : 1
Sequence Line : 1
Instrument Method: RK11.MTH
Analysis Method : ARPCBRB.MTH




Data File Name : C:\HPCHEM\1\DATA\970814AP\011F0101.D
Operator : RK/AA
Instrument : INSTRUMEN
Sample Name : AR1254 500PPB
Run Time Bar Code:
Acquired on : 15 Aug 97 05:44 AM
Report Created on: 29 Aug 97 10:07 AM

Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 1
Instrument Method: RK11.MTH
Analysis Method : ARPCBFB.MTH



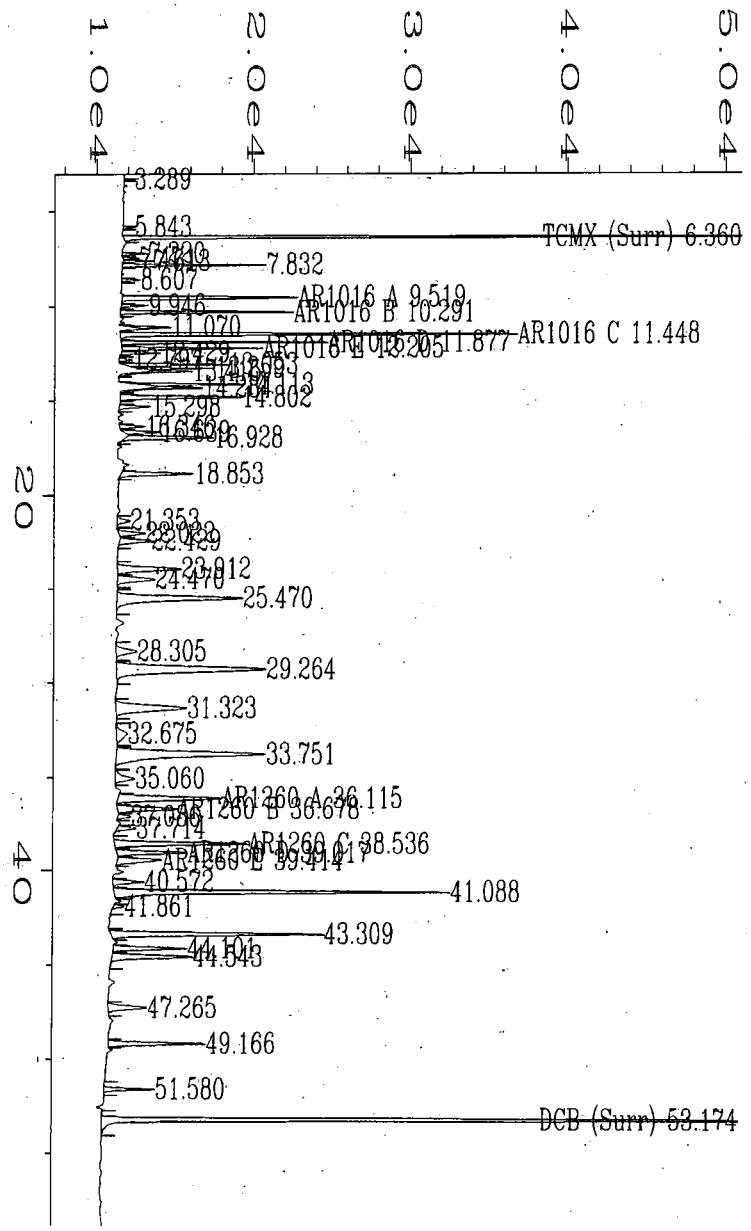

| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970814AP\011R0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 11 |
| Sample Name | : AR1254 500PPB | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 15 Aug 97 05:44 AM | Instrument Method | : RK11.MTH |
| Report Created on: | 29 Aug 97 12:09 PM | Analysis Method | : ARPCBRB.MTH |

# External Standard Report

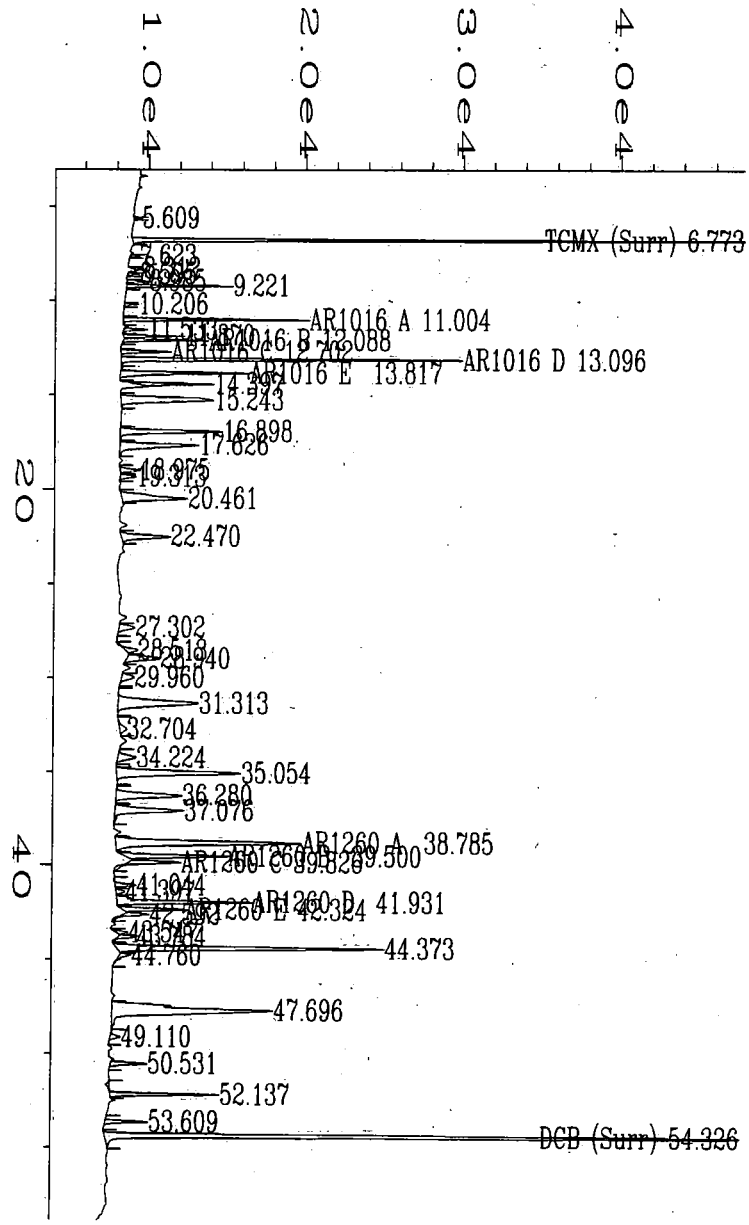
| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\095F0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 95 |
| Sample Name | : AR1660 | Injection Number | : 1 |
| Run Time Bar Code | : | Sequence Line | : 1 |
| Acquired on | : 01 Sep 97 01:19 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 07 Sep 97 11:48 PM | Analysis Method | : ARPCBFB.MTH |
| Last Recalib on | : 29 AUG 97 10:32 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |

Sig. 1 in C:\HPCHEM\1\DATA\970828AP\095F0101.D

| Ret Time | Area | Type | Width | Ref# | ppb | Name |
|---|---|---|---|---|---|---|
| 6.360 | 491642 | MM | 0.087 | 1 | 97.274 | TCMX (Surr) |
| 9.519 | 148190 | BB | 0.107 | 1 | 525.005 | AR1016 A |
| 10.291 | 92712 | BB | 0.080 | 1 | 502.133 | AR1016 B |
| 11.448 | 277923 | BB | 0.109 | 1 | 494.579 | AR1016 C |
| 11.877 | 116597 | BB | 0.087 | 1 | 483.547 | AR1016 D |
| 12.205 | 85128 | BB | 0.085 | 1 | 518.467 | AR1016 E |
| 36.115 | 199512 | BB | 0.219 | 1 | 515.535 | AR1260 A |
| 36.678 | 103051 | BB | 0.206 | 1 | 492.832 | AR1260 B |
| 38.536 | 213391 | BB | 0.180 | 1 | 510.032 | AR1260 C |
| 39.017 | 100595 | BB | 0.170 | 1 | 488.889 | AR1260 D |
| 39.414 | 86448 | BB | 0.209 | 1 | 509.155 | AR1260 E |
| 53.174 | 615521 | MM | 0.144 | 1 | 94.206 | DCB (Surr) |




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\095F0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 95 |
| Sample Name | : AR1660 | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 01 Sep 97 01:19 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 07 Sep 97 11:46 PM | Analysis Method | : ARPCBFB.MTH |
| Last Recalib on | : 29 AUG 97 10:32 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |



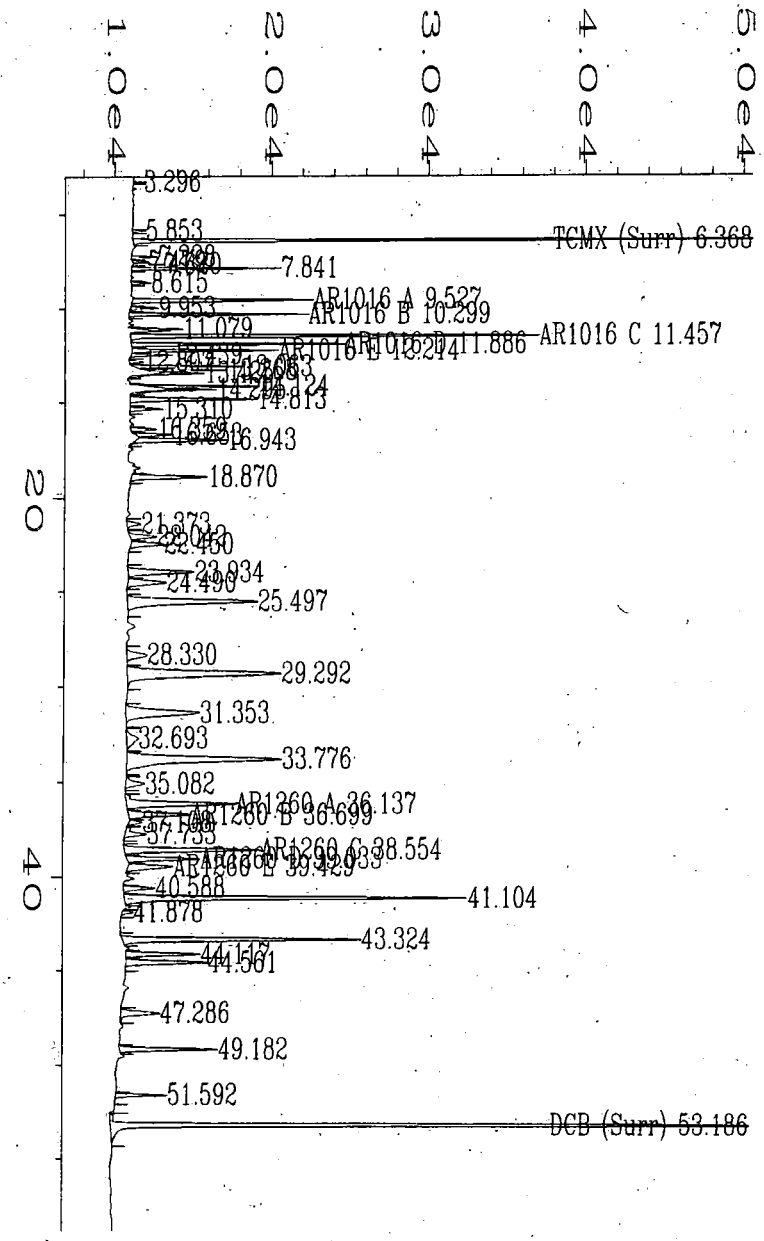

| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\095R0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 95 |
| Sample Name | : AR1660 | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 01 Sep 97 01:19 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 09 Sep 97 08:32 PM | Analysis Method | : ARPCBRB.MTH |
| Last Recalib on | : 29 AUG 97 12:07 PM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |

# External Standard Report

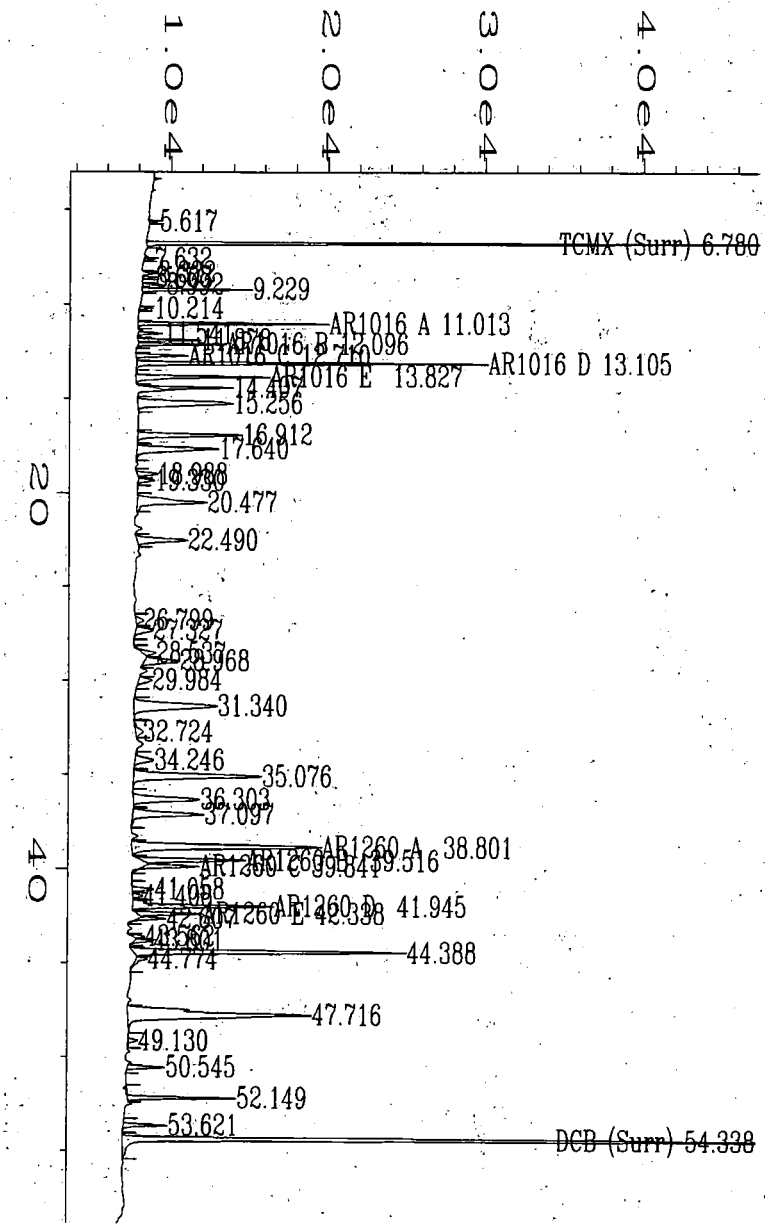
| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\005F0201.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 5 |
| Sample Name | : AR1660 | Injection Number | : 1 |
| Run Time Bar Code | : | Sequence Line | : 2 |
| Acquired on | : 01 Sep 97 11:34 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 08 Sep 97 00:20 AM | Analysis Method | : ARPCBFB.MTH |
| Last Recalib on | : 29 AUG 97 10:32 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |

Sig. 1 in C:\HPCHEM\1\DATA\970828AP\005F0201.D

| Ret Time | Area | Type | Width | Ref# | ppb | Name |
|---|---|---|---|---|---|---|
| 6.368 | 455966 | MM | 0.079 | 1 | 90.215 | TCMX (Surr) |
| 9.527 | 144627 | BB | 0.106 | 1 | 512.381 | AR1016 A |
| 10.299 | 90346 | BB | 0.079 | 1 | 489.318 | AR1016 B |
| 11.457 | 276109 | BB | 0.108 | 1 | 491.351 | AR1016 C |
| 11.886 | 120929 | BB | 0.086 | 1 | 501.512 | AR1016 D |
| 12.214 | 83841 | BB | 0.085 | 1 | 510.628 | AR1016 E |
| 36.137 | 189595 | BB | 0.228 | 1 | 489.912 | AR1260 A |
| 36.699 | 102577 | BB | 0.206 | 1 | 490.566 | AR1260 B |
| 38.554 | 208202 | BB | 0.182 | 1 | 497.630 | AR1260 C |
| 39.033 | 104424 | BB | 0.170 | 1 | 507.501 | AR1260 D |
| 39.429 | 85091 | BB | 0.210 | 1 | 501.160 | AR1260 E |
| 53.185 | 630650 | MM | 0.148 | 1 | 96.522 | DCB (Surr) |




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\005F0201.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 5 |
| Sample Name | : AR1660 | Injection Number | : 1 |
| Run Time Bar Code | : | Sequence Line | : 2 |
| Acquired on | : 01 Sep 97 11:34 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 08 Sep 97 00:20 AM | Analysis Method | : ARPCBFB.MTH |
| Last Recalib on | : 29 AUG 97 10:32 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\005R0201.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 5 |
| Sample Name | : AR1660 | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 2 |
| Acquired on | : 01 Sep 97 11:34 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 09 Sep 97 09:04 PM | Analysis Method | : ARPCBRB.MTH |
| Last Recalib on | : 29 AUG 97 12:07 PM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |

# D.

# PESTICIDES DATA
# QC RAW DATA

1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK01

Lab Name: CHEMTECH CONSULTING GROUP Contract: ROY F. WESTON

Lab Code: CHEM Case No.: 4968CLP SAS No.: SDG No.:

Matrix: SOIL Lab Sample ID:

Sample wt/vol: 30 (g/mL) g Lab File ID: 097F0101'A'

% Moisture: 0 decanted: (Y/N) N Date Received:

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/29/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/01/97

Injection Volume: 2 (uL) Dilution Factor: 1

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 33 | U |
| 11104-28-2 | Arocdor-1221 | 67 | U |
| 11141-16-5 | Aroclor-1232 | 33 | U |
| 53469-21-9 | Aroclor-1242 | 33 | U |
| 12672-29-6 | Aroclor-1248 | 33 | U |
| 11097-69-1 | Aroclor-1254 | 33 | U |
| 11096-82-5 | Aroclor-1260 | 33 | U |

FORM I PEST

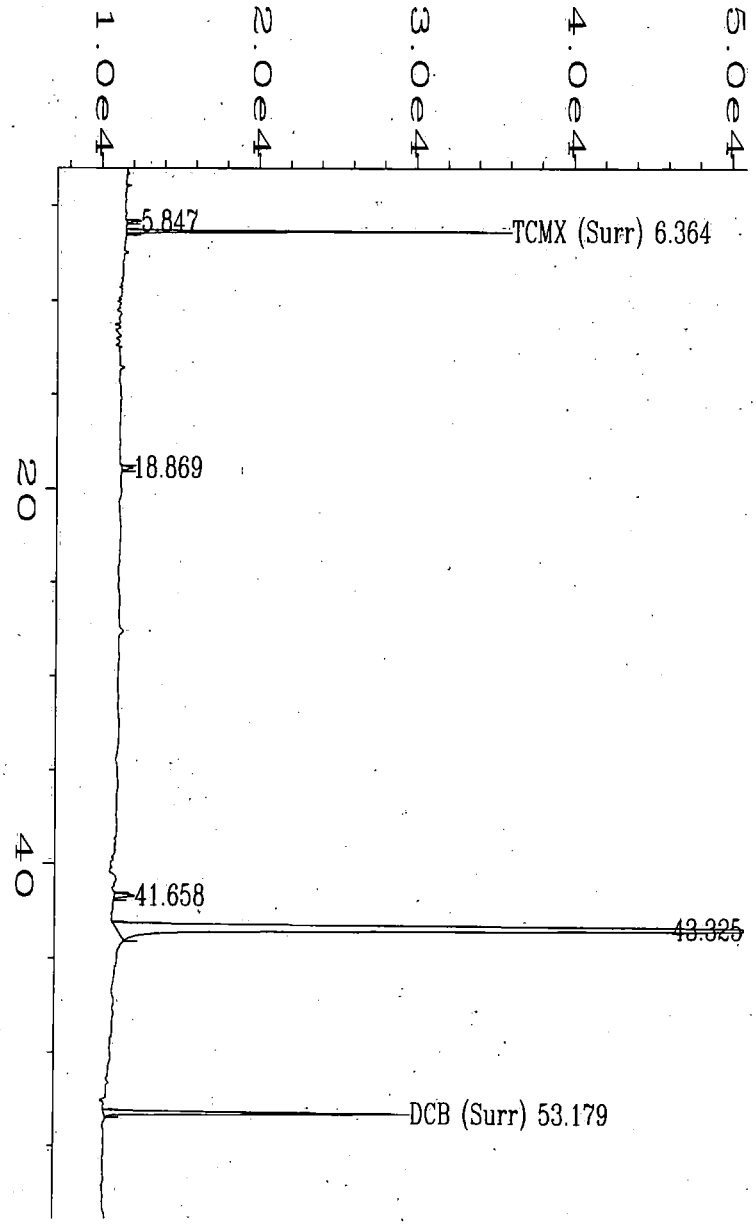
# External Standard Report

| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\097F0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 97 |
| Sample Name | : M.BLANK | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 01 Sep 97 03:22 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 09 Sep 97 09:36 PM | Analysis Method | : ARPCBFB.MTH |
| Last Recalib on | : 29 AUG 97 10:32 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |

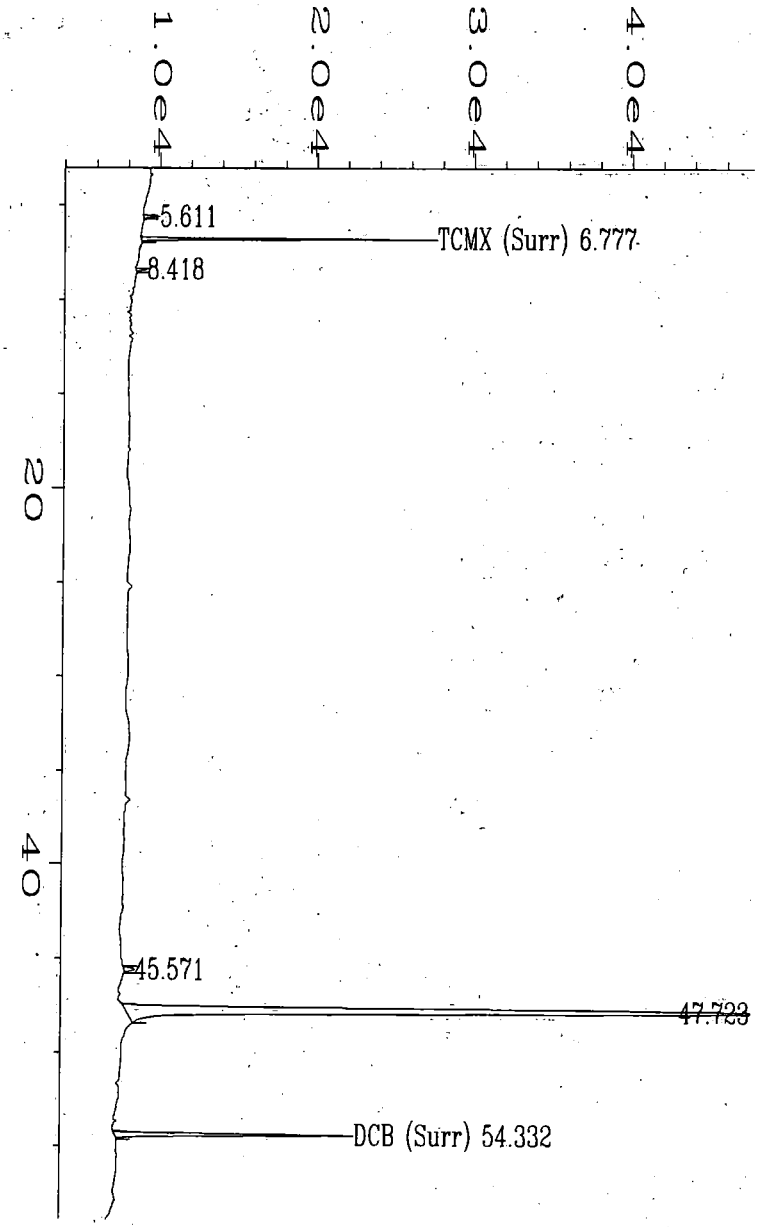
Sig. 1 in C:\HPCHEM\1\DATA\970828AP\097F0101.D

| Ret Time | Area | Type | Width | Ref# | ppb | Name |
|---|---|---|---|---|---|---|
| 6.364 | 101434 | BB | 0.064 | 1 | 20.069 | TCMX (Surr) |
| 9.540 | * not found * | | | 1 | | AR1016 A |
| 10.313 | * not found * | | | 1 | | AR1016 B |
| 11.472 | * not found * | | | 1 | | AR1016 C |
| 11.900 | * not found * | | | 1 | | AR1016 D |
| 12.229 | * not found * | | | 1 | | AR1016 E |
| 36.165 | * not found * | | | 1 | | AR1260 A |
| 36.725 | * not found * | | | 1 | | AR1260 B |
| 38.575 | * not found * | | | 1 | | AR1260 C |
| 39.054 | * not found * | | | 1 | | AR1260 D |
| 39.449 | * not found * | | | 1 | | AR1260 E |
| 53.179 | 140507 | BB | 0.113 | 1 | 21.505 | DCB (Surr) |

Not all calibrated peaks were found




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\097F0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 97 |
| Sample Name | : M.BLANK | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 01 Sep 97 03:22 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 09 Sep 97 09:36 PM | Analysis Method | : ARPCBFB.MTH |
| Last Recalib on | : 29 AUG 97 10:32 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\097R0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 97 |
| Sample Name | : M.BLANK | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 01 Sep 97 03:22 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 09 Sep 97 08:38 PM | Analysis Method | : ARPCBRB.MTH |
| Last Recalib on | : 29 AUG 97 12:07 PM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | |

1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK02

Lab Name: CHEMTECH CONSULTING GROUP Contract: ROY F. WESTON

Lab Code: CHEM Case No.: 4968CLP SAS No.: SDG No.:

Matrix: WATER Lab Sample ID:

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 001F0101'A'

% Moisture: 100 decanted: (Y/N) N Date Received:

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/14/97

Injection Volume: 2 (uL) Dilution Factor: 1

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | UG/L | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 1 | U |
| 11104-28-2 | Aroclor-1221 | 2 | U |
| 11141-16-5 | Aroclor-1232 | 1 | U |
| 53469-21-9 | Aroclor-1242 | 1 | U |
| 12672-29-6 | Aroclor-1248 | 1 | U |
| 11097-69-1 | Aroclor-1254 | 1 | U |
| 11096-82-5 | Aroclor-1260 | 1 | U |

FORM I PEST

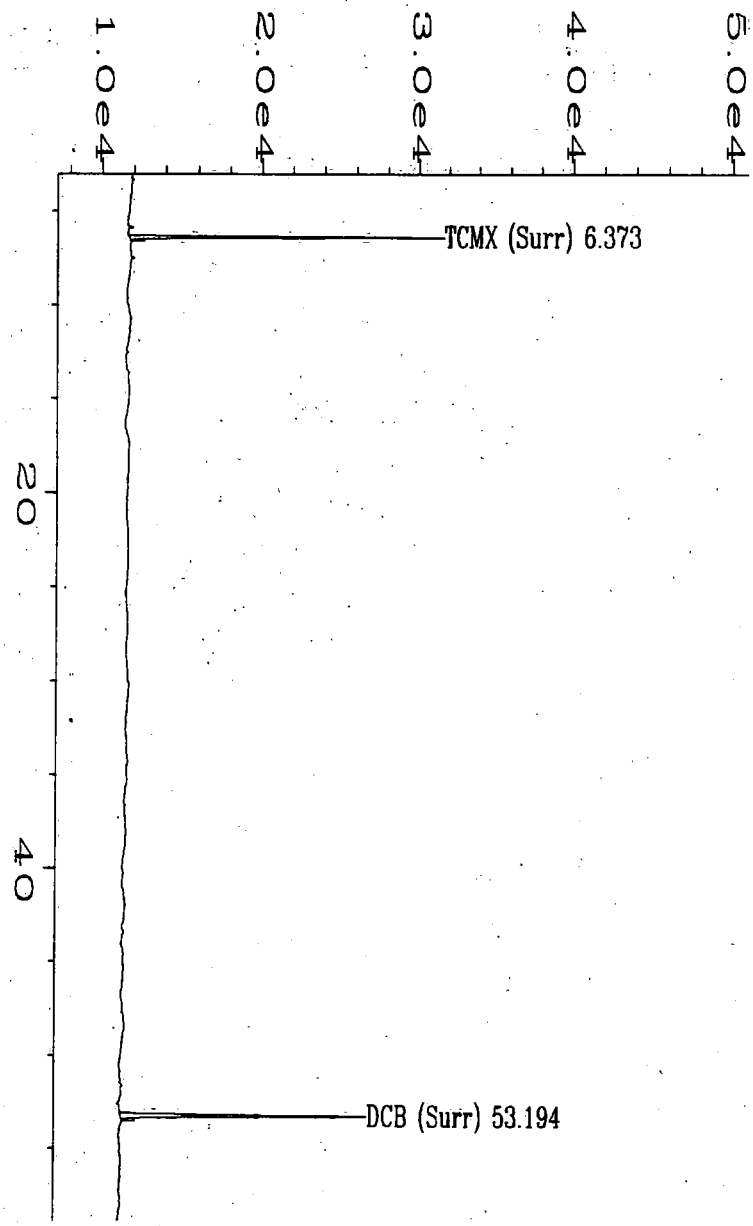
External Standard Report

| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970814AP\001F0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 1 |
| Sample Name | : I.BLANK | Injection Number | : 1 |
| Run Time Bar Code | : | Sequence Line | : 1 |
| Acquired on | : 14 Aug 97 07:30 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 29 Aug 97 10:48 AM | Analysis Method | : PCBFB.MTH |
| Last Recalib on | : 29 AUG 97 10:32 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |

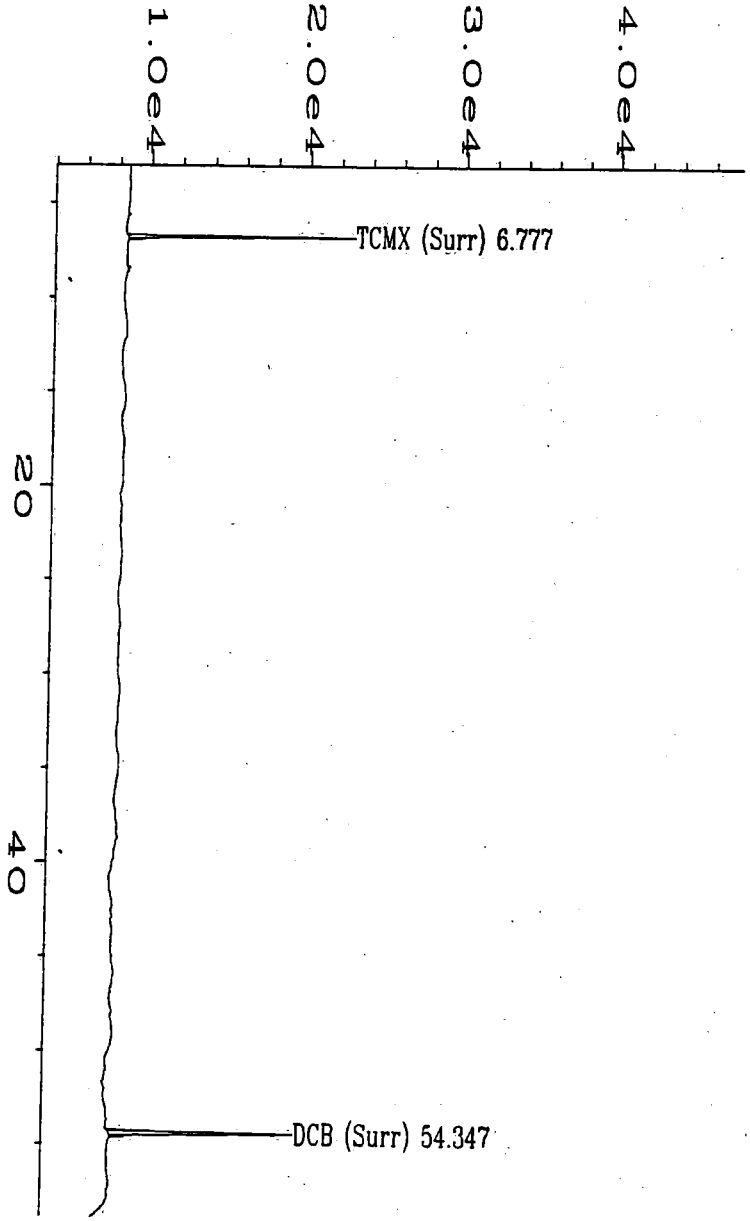
Sig. 1 in C:\HPCHEM\1\DATA\970814AP\001F0101.D

| Ret Time | Area | Type | Width | Ref# | ppb | Name |
|---|---|---|---|---|---|---|
| 6.373 | 85732 | BB | 0.067 | 1 | 16.963 | TCMX (Surr) |
| 9.540 | * not found * | | | 1 | | AR1016 A |
| 10.313 | * not found * | | | 1 | | AR1016 B |
| 11.472 | * not found * | | | 1 | | AR1016 C |
| 11.900 | * not found * | | | 1 | | AR1016 D |
| 12.229 | * not found * | | | 1 | | AR1016 E |
| 36.165 | * not found * | | | 1 | | AR1260 A |
| 36.725 | * not found * | | | 1 | | AR1260 B |
| 38.575 | * not found * | | | 1 | | AR1260 C |
| 39.054 | * not found * | | | 1 | | AR1260 D |
| 39.449 | * not found * | | | 1 | | AR1260 E |
| 53.194 | 112862 | BB | 0.113 | 1 | 17.274 | DCB (Surr) |

Not all calibrated peaks were found




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\RKA\001F0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 1 |
| Sample Name | : I.BLANK | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 14 Aug 97 07:30 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 30 Aug 97 10:20 AM | Analysis Method | : ARPCBFB.MTH |
| Last Recalib on | : 29 AUG 97 10:32 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |




Data File Name : C:\HPCHEM\1\DATA\970814AP\001R0101.D
Operator : RK/AA
Instrument : INSTRUMEN
Sample Name : I.BLANK
Run Time Bar Code:
Acquired on : 14 Aug 97 07:30 PM
Report Created on: 29 Aug 97 12:12 PM

Page Number : 1
Vial Number : 1
Injection Number : 1
Sequence Line : 1
Instrument Method: RK11.MTH
Analysis Method : ARPCBRB.MTH

1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK03

Lab Name: CHEMTECH CONSULTING GROUP Contract: ROY F. WESTON

Lab Code: CHEM Case No.: 4968CLP SAS No.: SDG No.:

Matrix: WATER Lab Sample ID:

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 012F0101'A'

% Moisture: 100 decanted: (Y/N) N Date Received:

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/16/97

Injection Volume: 2 (uL) Dilution Factor: 1

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | UG/L | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 1 | U |
| 11104-28-2 | Aroclor-1221 | 2 | U |
| 11141-16-5 | Aroclor-1232 | 1 | U |
| 53469-21-9 | Aroclor-1242 | 1 | U |
| 12672-29-6 | Aroclor-1248 | 1 | U |
| 11097-69-1 | Aroclor-1254 | 1 | U |
| 11096-82-5 | Aroclor-1260 | 1 | U |

FORM I PEST

# External Standard Report

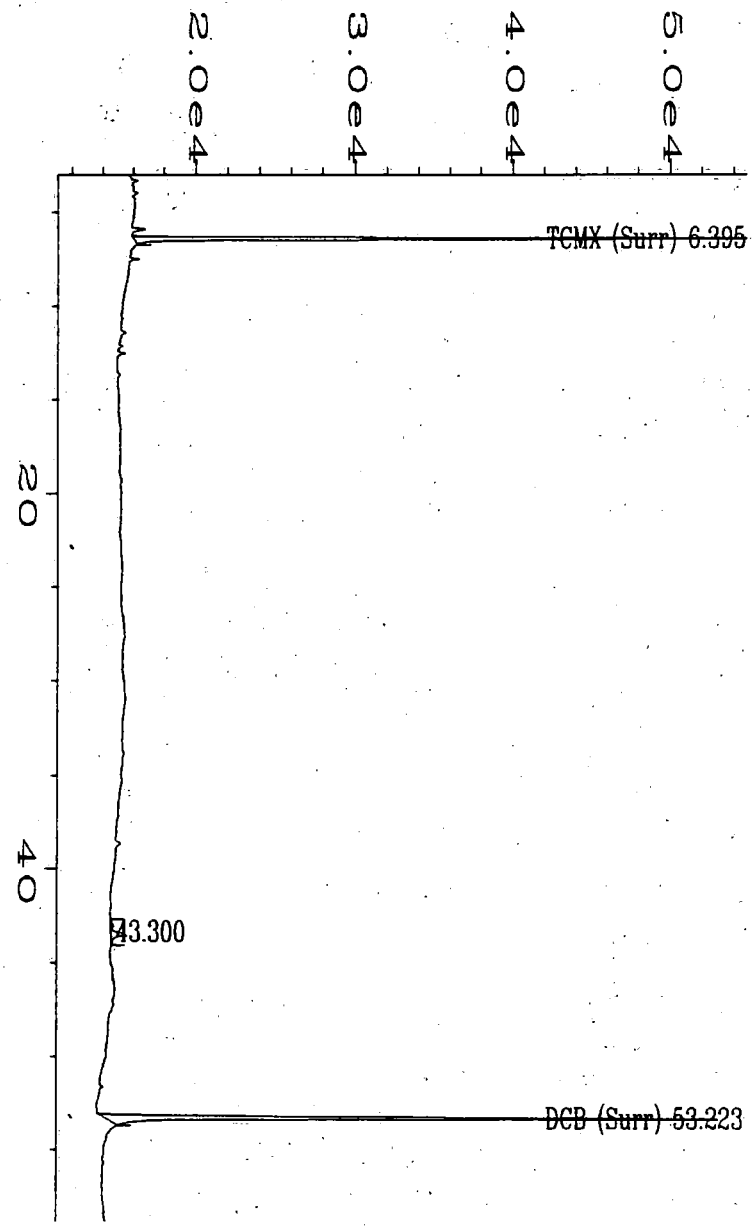
| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970814AP\012F0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 12 |
| Sample Name | : I.BLANK | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 16 Aug 97 06:45 AM | Instrument Method: | RK11.MTH |
| Report Created on: | 29 Aug 97 07:43 AM | Analysis Method | : F970807B.MTH |
| Last Recalib on | : 13 AUG 97 06:27 PM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |

Sig. 1 in C:\HPCHEM\1\DATA\970814AP\012F0101.D

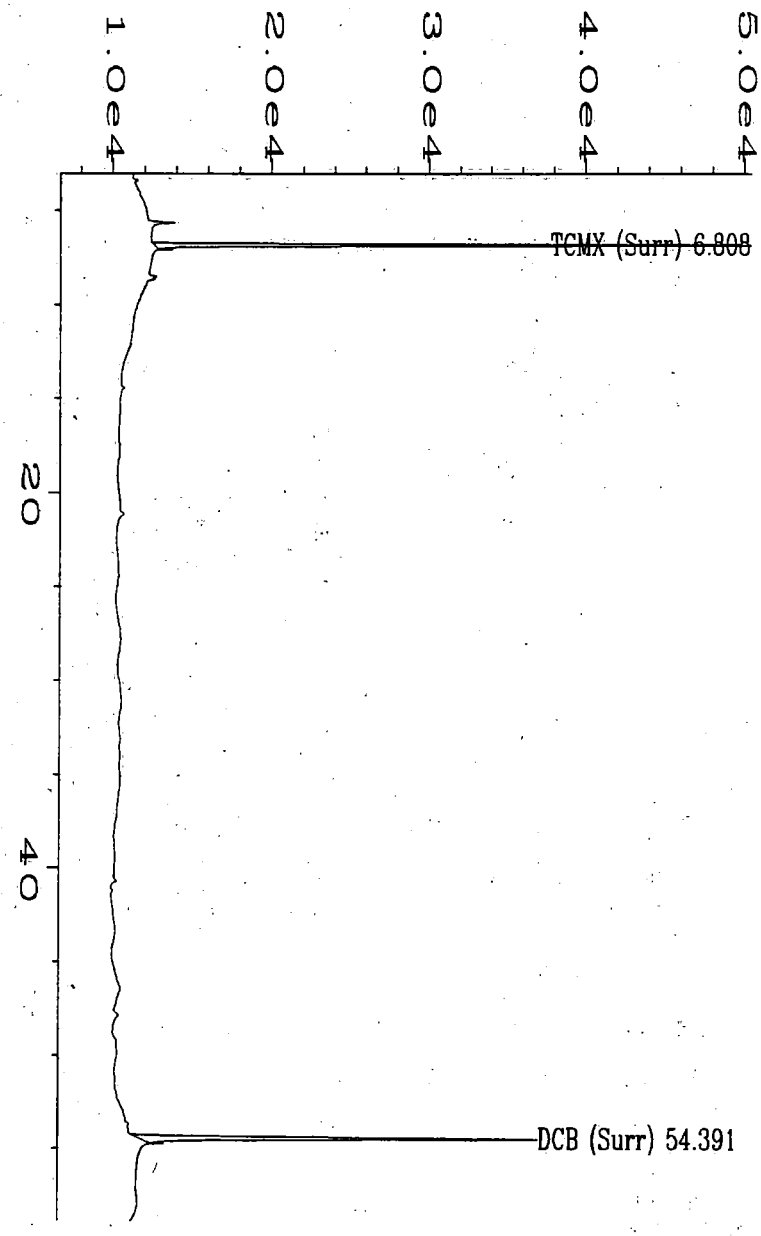
| Ret Time | Area | Type | Width | Ref# | ppb | Name |
|---|---|---|---|---|---|---|
| 6.395 | 115959 | MM | 0.055 | 1 | 22.252 | TCMX (Surr) |
| 7.824 | * not found * | | | 1 | | a-BHC |
| 8.927 | * not found * | | | 1 | | b-BHC |
| 9.101 | * not found * | | | 1 | | g-BHC |
| 10.143 | * not found * | | | 1 | | d-BHC |
| 12.003 | * not found * | | | 1 | | Heptachlor |
| 13.579 | * not found * | | | 1 | | Aldarin |
| 16.054 | * not found * | | | 1 | | Hep. Epoxide |
| 17.797 | * not found * | | | 1 | | g-Chlordane |
| 18.701 | * not found * | | | 1 | | Endosulfan I |
| 19.098 | * not found * | | | 1 | | a-Chlordane |
| 21.164 | * not found * | | | 1 | | Dieldrin |
| 21.818 | * not found * | | | 1 | | p,p'-DDE |
| 23.404 | * not found * | | | 1 | | Endrin |
| 24.711 | * not found * | | | 1 | | ENDOSULFAN-II |
| 27.182 | * not found * | | | 1 | | p,p'-DDD |
| 27.504 | * not found * | | | 1 | | Endrin Aldehyde |
| 31.348 | * not found * | | | 1 | | ENDO-SULFATE |
| 33.317 | * not found * | | | 1 | | P,P'-DDT |
| 37.299 | * not found * | | | 1 | | ENDRIN KETON |
| 40.559 | * not found * | | | 1 | | Methoxychlor |
| 53.223 | 136256 | MM | 0.088 | 1 | 22.852 | DCB (Surr) |

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970814AP\012F0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 12 |
| Sample Name | : I.BLANK | Injection Number | : 1 |
| Run Time Bar Code | : | Sequence Line | : 1 |
| Acquired on | : 16 Aug 97 06:45 AM | Instrument Method | : RK11.MTH |
| Report Created on | : 29 Aug 97 07:40 AM | Analysis Method | : F970807B.MTH |
| Last Recalib on | : 13 AUG 97 06:27 PM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970814AP\012R0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 12 |
| Sample Name | : I.BLANK | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 16 Aug 97 06:45 AM | Instrument Method | : RK11.MTH |
| Report Created on | : 29 Aug 97 12:12 PM | Analysis Method | : ARPCBRB.MTH |

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK04

Lab Name: CHEMTECH CONSULTING GROUP Contract: ROY F. WESTON

Lab Code: CHEM Case No.: 4968CLP SAS No.: SDG No.:

Matrix: WATER Lab Sample ID:

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 096F0101'A'

% Moisture: 100 decanted: (Y/N) N Date Received:

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 08/29/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/01/97

Injection Volume: 2 (uL) Dilution Factor: 1

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | UG/L | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 1 | U |
| 11104-28-2 | Aroclor-1221 | 2 | U |
| 11141-16-5 | Aroclor-1232 | 1 | U |
| 53469-21-9 | Aroclor-1242 | 1 | U |
| 12672-29-6 | Aroclor-1248 | 1 | U |
| 11097-69-1 | Aroclor-1254 | 1 | U |
| 11096-82-5 | Aroclor-1260 | 1 | U |

FORM I PEST

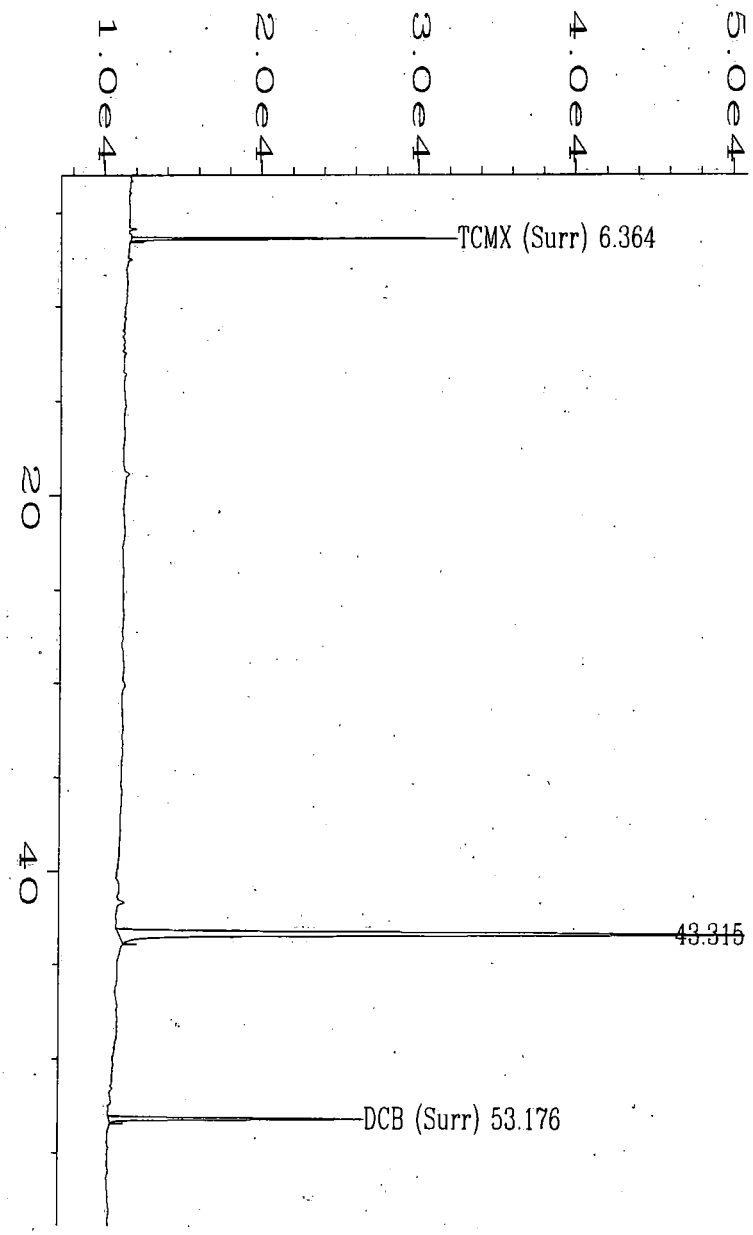
# External Standard Report

| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\096F0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 96 |
| Sample Name | : I.BLANK | Injection Number | : 1 |
| Run Time Bar Code | : | Sequence Line | : 1 |
| Acquired on | : 01 Sep 97 02:21 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 07 Sep 97 11:48 PM | Analysis Method | : ARPCBFB.MTH |
| Last Recalib on | : 29 AUG 97 10:32 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |

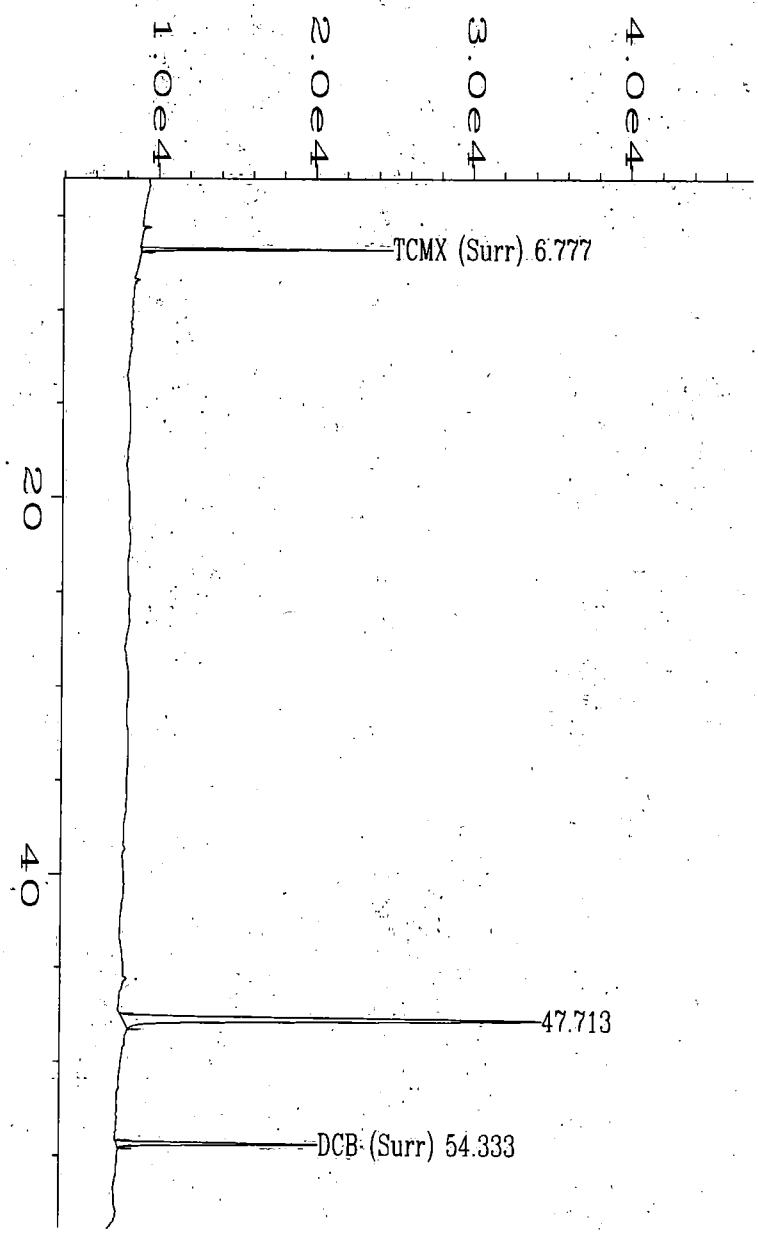
Sig. 1 in C:\HPCHEM\1\DATA\970828AP\096F0101.D

| Ret Time | Area | Type | Width | Ref# | ppb | Name |
|---|---|---|---|---|---|---|
| 6.364 | 84732 | BB | 0.063 | 1 | 16.765 | TCMX (Surr) |
| 9.540 | * not found * | | | 1 | | AR1016 A |
| 10.313 | * not found * | | | 1 | | AR1016 B |
| 11.472 | * not found * | | | 1 | | AR1016 C |
| 11.900 | * not found * | | | 1 | | AR1016 D |
| 12.229 | * not found * | | | 1 | | AR1016 E |
| 36.165 | * not found * | | | 1 | | AR1260 A |
| 36.725 | * not found * | | | 1 | | AR1260 B |
| 38.575 | * not found * | | | 1 | | AR1260 C |
| 39.054 | * not found * | | | 1 | | AR1260 D |
| 39.449 | * not found * | | | 1 | | AR1260 E |
| 53.176 | 117221 | BB | 0.111 | 1 | 17.941 | DCB (Surr) |

Not all calibrated peaks were found




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\096F0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 96 |
| Sample Name | : I.BLANK | Injection Number | : 1 |
| Run Time Bar Code | : | Sequence Line | : 1 |
| Acquired on | : 01 Sep 97 02:21 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 07 Sep 97 11:49 PM | Analysis Method | : ARPCBFB.MTH |
| Last Recalib on | : 29 AUG 97 10:32 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\096R0101.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 96 |
| Sample Name | : I.BLANK | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 1 |
| Acquired on | : 01 Sep 97 02:21 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 09 Sep 97 08:38 PM | Analysis Method | : ARPCBRB.MTH |
| Last Recalib on | : 29 AUG 97 12:07 PM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | |

1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK05

Lab Name: CHEMTECH CONSULTING GROUP Contract: ROY F. WESTON

Lab Code: CHEM Case No.: 4968CLP SAS No.: SDG No.:

Matrix: WATER Lab Sample ID:

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 006F0201'A'

% Moisture: 100 decanted: (Y/N) N Date Received:

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 08/29/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/02/97

Injection Volume: 2 (uL) Dilution Factor: 1

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | UG/L | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 1 | U |
| 11104-28-2 | Aroclor-1221 | 2 | U |
| 11141-16-5 | Aroclor-1232 | 1 | U |
| 53469-21-9 | Aroclor-1242 | 1 | U |
| 12672-29-6 | Aroclor-1248 | 1 | U |
| 11097-69-1 | Aroclor-1254 | 1 | U |
| 11096-82-5 | Aroclor-1260 | 1 | U |

FORM I PEST

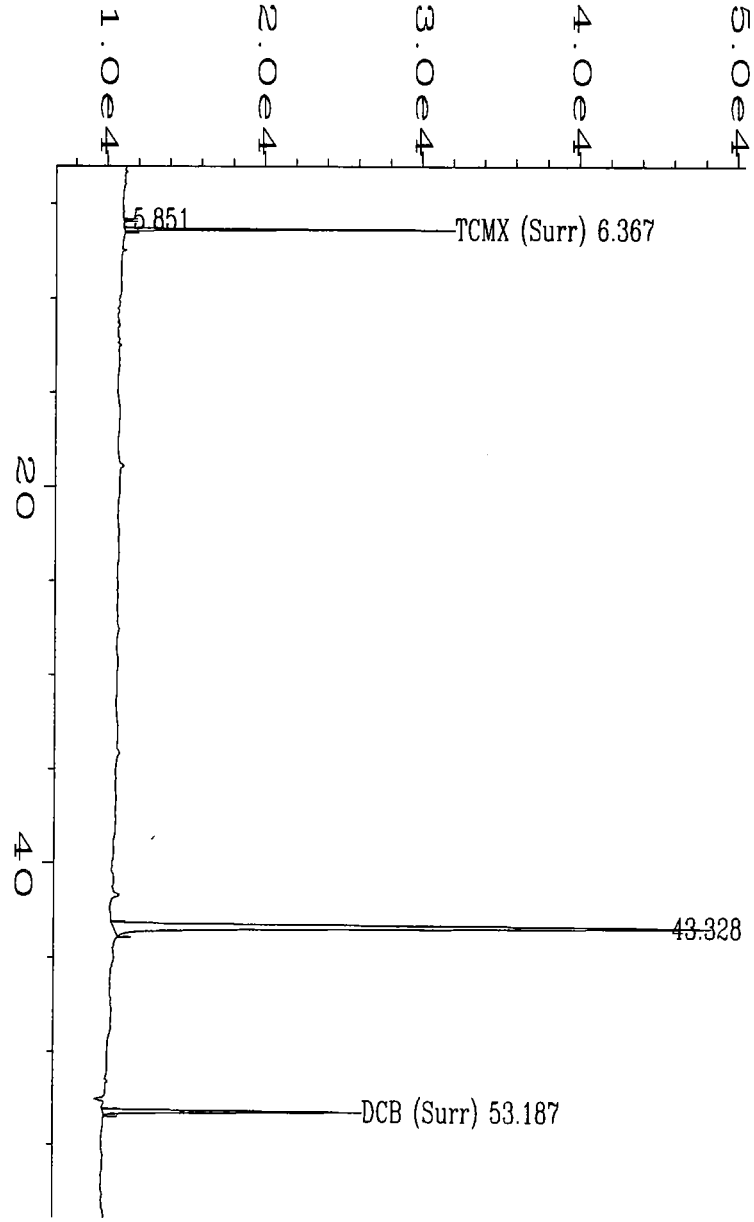
External Standard Report

| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\006F0201.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 6 |
| Sample Name | : I.BLANK | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 2 |
| Acquired on | : 02 Sep 97 00:35 AM | Instrument Method | : RK11.MTH |
| Report Created on | : 09 Sep 97 09:40 PM | Analysis Method | : ARPCBFB.MTH |
| Last Recalib on | : 29 AUG 97 10:32 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |

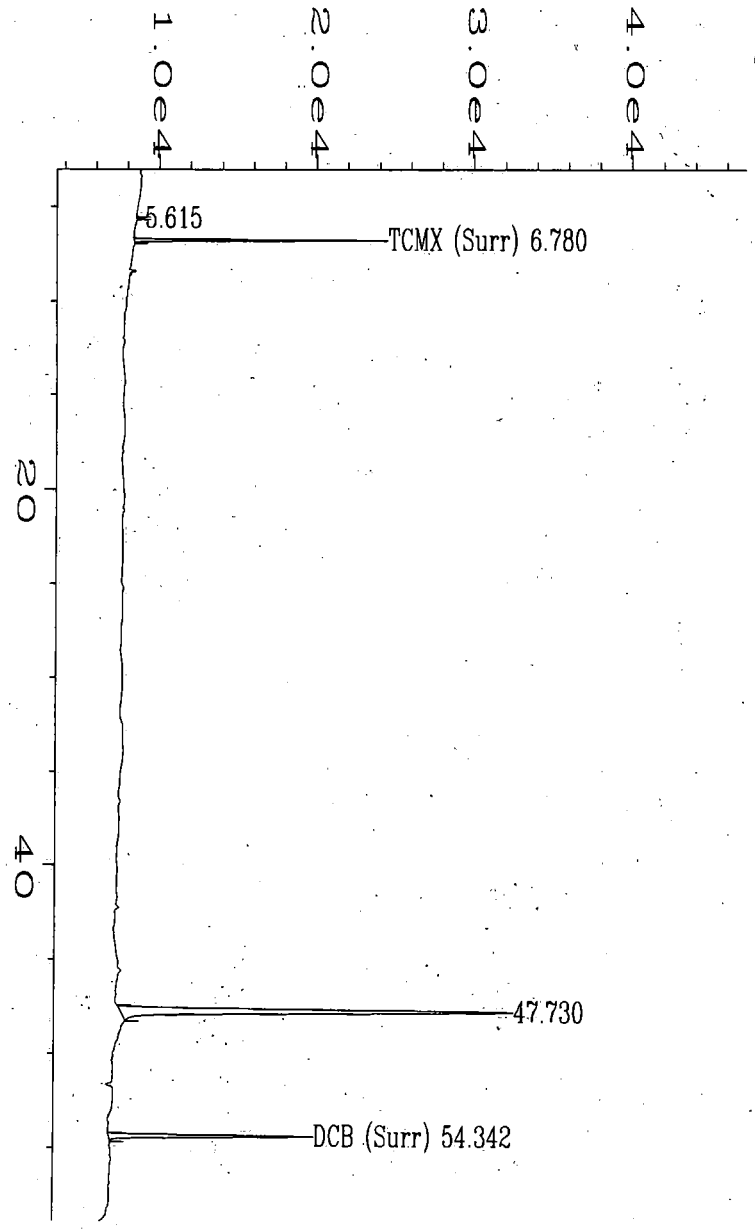
Sig. 1 in C:\HPCHEM\1\DATA\970828AP\006F0201.D

| Ret Time | Area | Type | Width | Ref# | ppb | Name |
|---|---|---|---|---|---|---|
| 6.367 | 86563 | BB | 0.064 | 1 | 17.127 | TCMX (Surr) |
| 9.540 | * not found * | | | 1 | | AR1016 A |
| 10.313 | * not found * | | | 1 | | AR1016 B |
| 11.472 | * not found * | | | 1 | | AR1016 C |
| 11.900 | * not found * | | | 1 | | AR1016 D |
| 12.229 | * not found * | | | 1 | | AR1016 E |
| 36.165 | * not found * | | | 1 | | AR1260 A |
| 36.725 | * not found * | | | 1 | | AR1260 B |
| 38.575 | * not found * | | | 1 | | AR1260 C |
| 39.054 | * not found * | | | 1 | | AR1260 D |
| 39.449 | * not found * | | | 1 | | AR1260 E |
| 53.187 | 117936 | BB | 0.110 | 1 | 18.050 | DCB (Surr) |

Not all calibrated peaks were found




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\006F0201.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 6 |
| Sample Name | : I.BLANK | Injection Number | : 1 |
| Run Time Bar Code | : | Sequence Line | : 2 |
| Acquired on | : 02 Sep 97 00:35 AM | Instrument Method | : RK11.MTH |
| Report Created on | : 09 Sep 97 09:41 PM | Analysis Method | : ARPCBFB.MTH |
| Last Recalib on | : 29 AUG 97 10:32 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |




Data File Name : C:\HPCHEM\1\DATA\970828AP\006R0201.D
Operator : RK/AA
Instrument : INSTRUMEN
Sample Name : I.BLANK
Run Time Bar Code:
Acquired on : 02 Sep 97 00:35 AM
Report Created on: 09 Sep 97 09:04 PM
Last Recalib on : 29 AUG 97 12:07 PM
Multiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 2
Instrument Method: RK11.MTH
Analysis Method : ARPCBRB.MTH
Sample Amount : 0
ISTD Amount :

# External Standard Report

| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\003F0201.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 3 |
| Sample Name | : 26732 MS | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 2 |
| Acquired on | : 01 Sep 97 09:31 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 08 Sep 97 00:39 AM | Analysis Method | : ARPCBFB.MTH |
| Last Recalib on | : 29 AUG 97 10:32 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |

Sig. 1 in C:\HPCHEM\1\DATA\970828AP\003F0201.D

| Ret Time | Area | Type | Width | Ref# | ppb | Name |
|---|---|---|---|---|---|---|
| 6.366 | 105024 | MM | 0.088 | 1 | 20.780 | TCMX (Surr) |
| 16.648 | 57004 | BB | 0.121 | 1 | 641.266 | AR1254 A |
| 19.303 | 55306 | BB | 0.163 | 1 | 521.056 | AR1254 B |
| 20.827 | 52263 | BB | 0.185 | 1 | 500.775 | AR1254 C |
| 21.368 | 93598 | BB | 0.192 | 1 | 434.201 | AR1254 D |
| 31.338 | 77828 | BB | 0.336 | 1 | 794.483 | AR1254 E |
| 36.133 | 71281 | BB | 0.231 | 1 | 184.189 | AR1260 A |
| 36.695 | 43711 | BB | 0.191 | 1 | 209.047 | AR1260 B |
| 38.551 | 80326 | BB | 0.186 | 1 | 191.989 | AR1260 C |
| 39.029 | 39847 | BB | 0.170 | 1 | 193.659 | AR1260 D |
| 39.538 | 34948 | BB | 0.213 | 1 | 205.835 | AR1260 E |
| 53.185 | 154140 | MM | 0.166 | 1 | 23.591 | DCB (Surr) |

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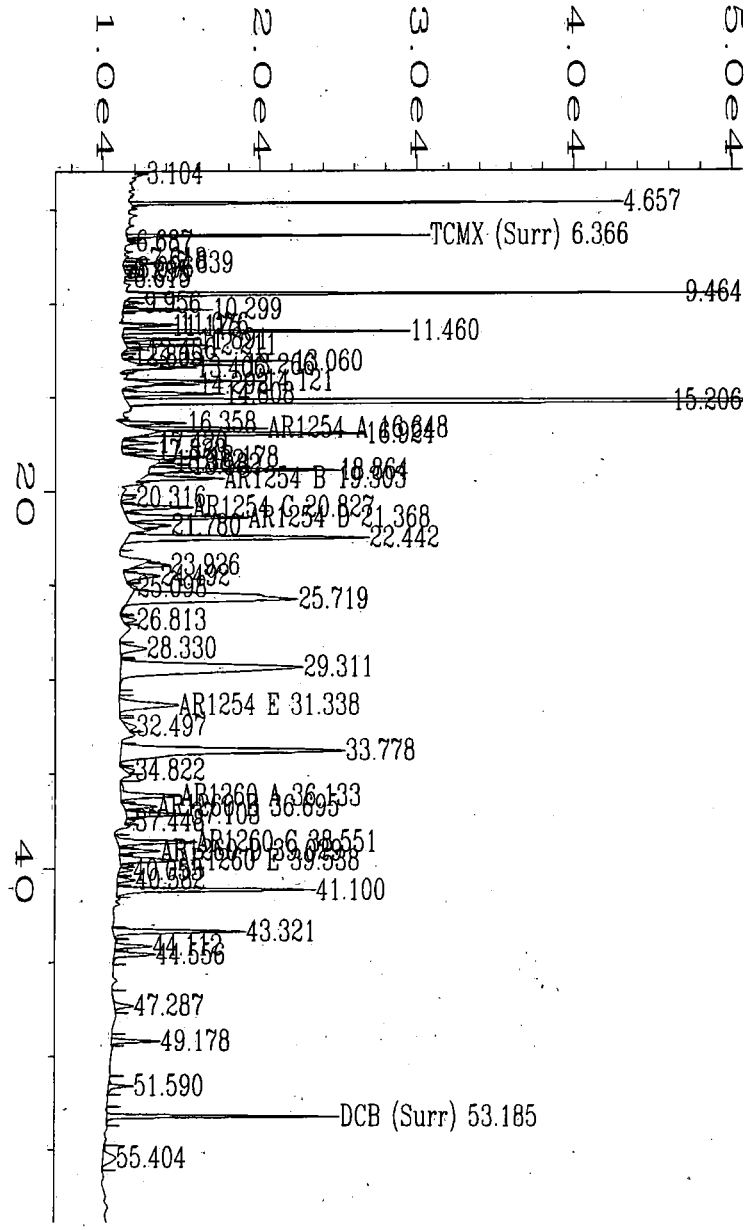
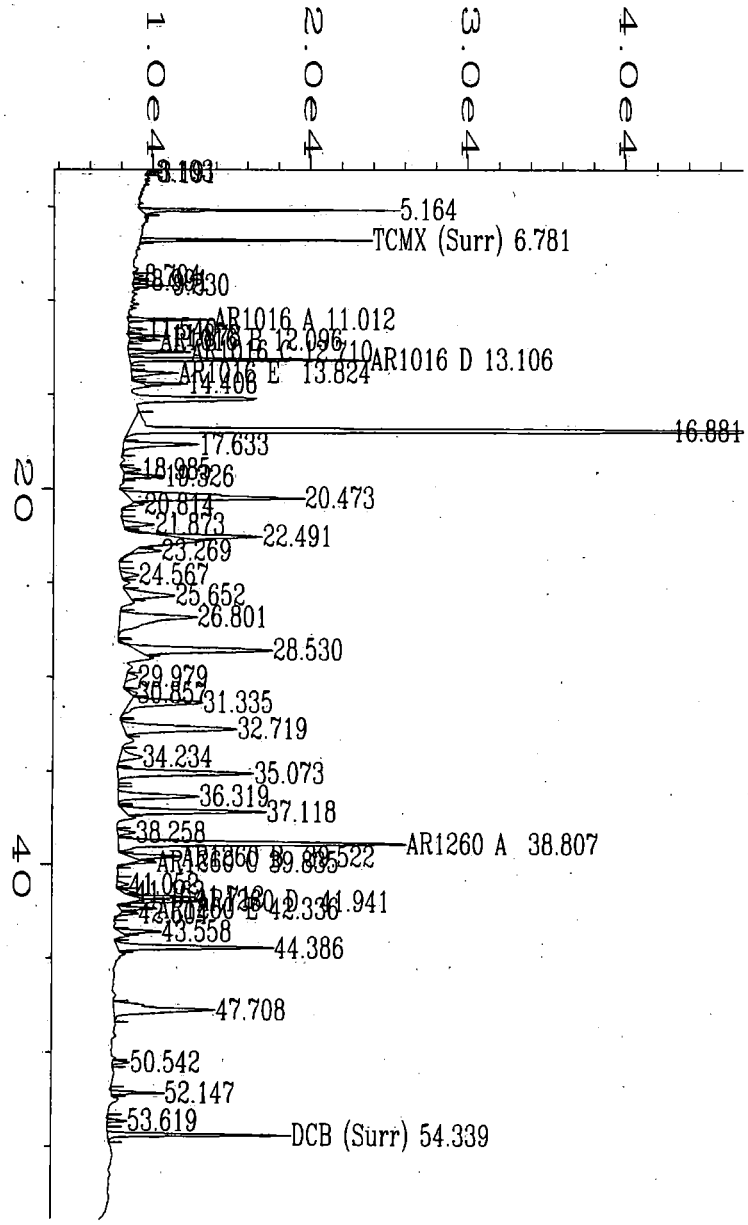



| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\003F0201.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 3 |
| Sample Name | : 26732 MS | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 2 |
| Acquired on | : 01 Sep 97 09:31 PM | Instrument Method | : RK11.MTH |
| Report Created on: | 08 Sep 97 00:38 AM | Analysis Method | : ARPCBFB.MTH |
| Last Recalib on | : 29 AUG 97 10:32 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | |




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\003R0201.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 3 |
| Sample Name | : 26732 MS | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 2 |
| Acquired on | : 01 Sep 97 09:31 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 09 Sep 97 09:02 PM | Analysis Method | : ARPCBRB.MTH |
| Last Recalib on | : 29 AUG 97 12:07 PM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |

# External Standard Report

| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\004F0201.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 4 |
| Sample Name | : 26733 MSD | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 2 |
| Acquired on | : 01 Sep 97 10:32 PM | Instrument Method: | RK11.MTH |
| Report Created on: | 08 Sep 97 00:41 AM | Analysis Method | : ARPCBFB.MTH |
| Last Recalib on | : 29 AUG 97 10:32 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |

Sig. 1 in C:\HPCHEM\1\DATA\970828AP\004F0201.D

| Ret Time | Area | Type | Width | Ref# | ppb | Name |
|---|---|---|---|---|---|---|
| 6.368 | 104012 | MM | 0.089 | 1 | 20.579 | TCMX (Surr) |
| 16.651 | 56417 | BB | 0.122 | 1 | 634.659 | AR1254 A |
| 19.305 | 55033 | BB | 0.165 | 1 | 518.486 | AR1254 B |
| 20.828 | 51603 | BB | 0.184 | 1 | 494.448 | AR1254 C |
| 21.370 | 93095 | BB | 0.191 | 1 | 431.867 | AR1254 D |
| 31.339 | 84017 | BB | 0.335 | 1 | 857.671 | AR1254 E |
| 36.135 | 75715 | BB | 0.228 | 1 | 195.645 | AR1260 A |
| 36.697 | 43324 | BB | 0.192 | 1 | 207.194 | AR1260 B |
| 38.553 | 79783 | BB | 0.186 | 1 | 190.691 | AR1260 C |
| 39.032 | 38403 | BB | 0.169 | 1 | 186.641 | AR1260 D |
| 39.537 | 36763 | BB | 0.219 | 1 | 216.522 | AR1260 E |
| 53.185 | 108362 | BB | 0.117 | 1 | 16.585 | DCB (Surr) |

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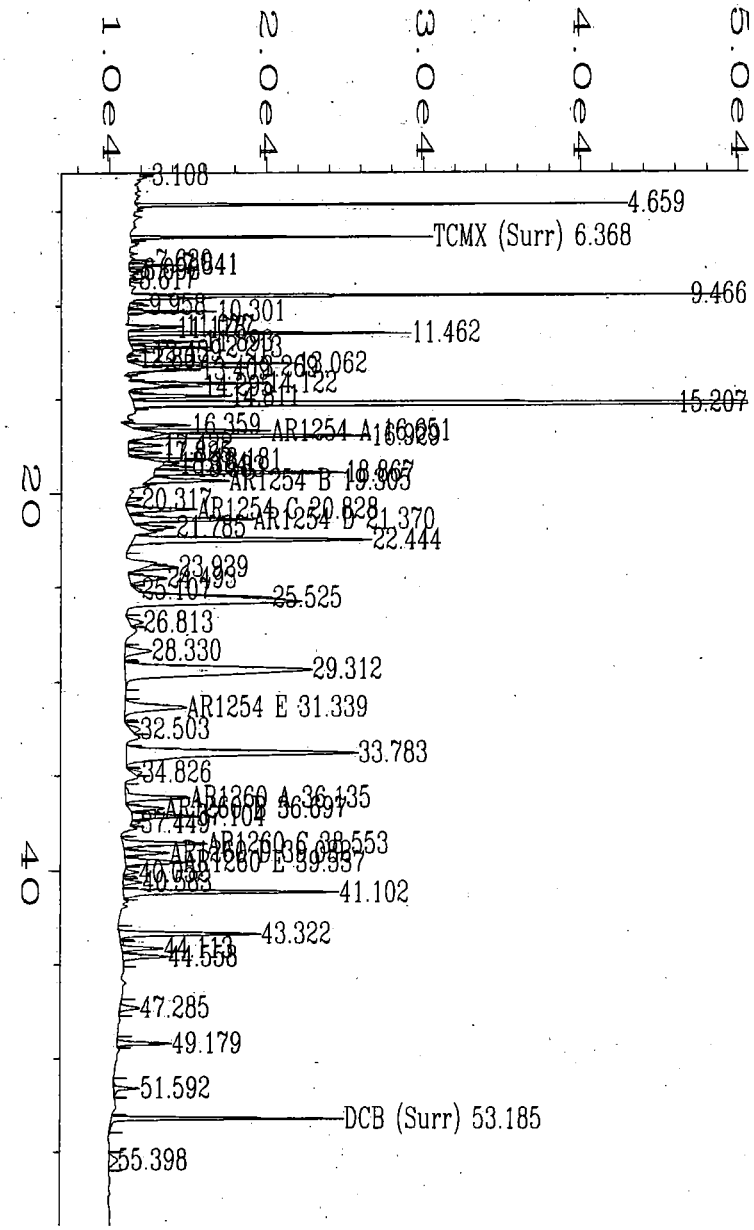
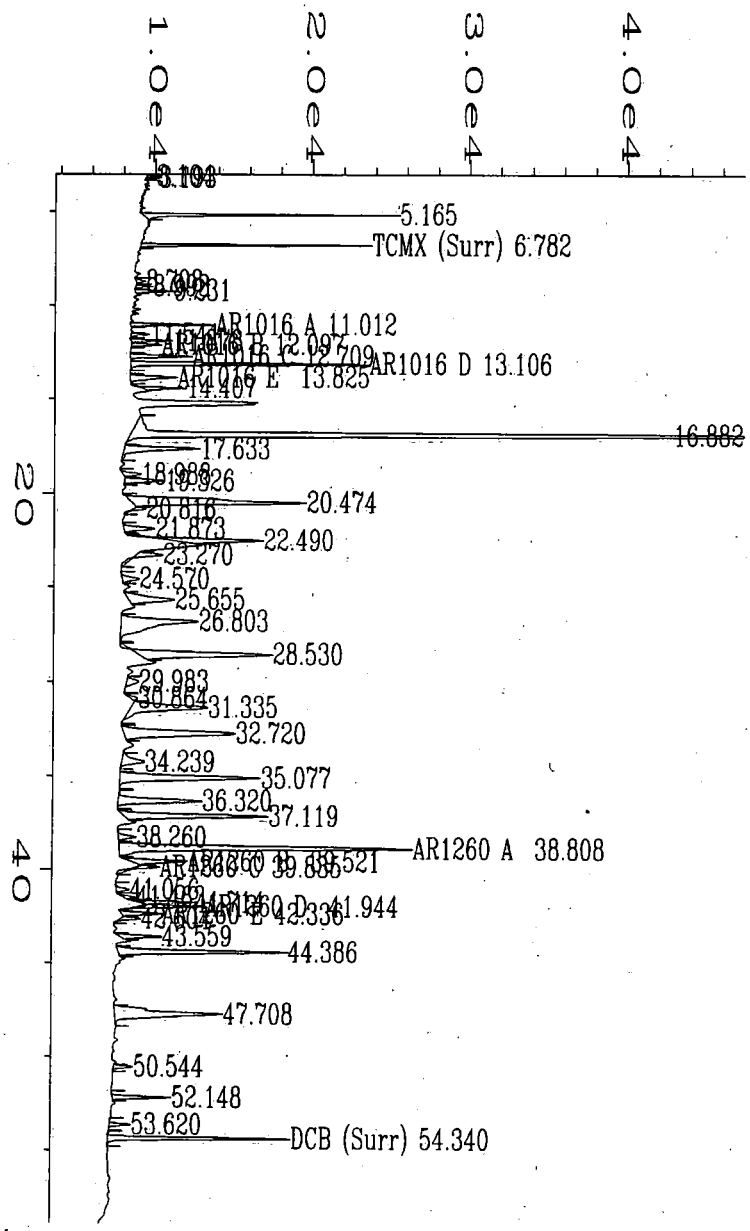



| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\004F0201.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 4 |
| Sample Name | : 26733 MSD | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 2 |
| Acquired on | : 01 Sep 97 10:32 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 08 Sep 97 00:40 AM | Analysis Method | : ARPCBFB.MTH |
| Last Recalib on | : 29 AUG 97 10:32 AM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |




| | | | |
|---|---|---|---|
| Data File Name | : C:\HPCHEM\1\DATA\970828AP\004R0201.D | | |
| Operator | : RK/AA | Page Number | : 1 |
| Instrument | : INSTRUMEN | Vial Number | : 4 |
| Sample Name | : 26733 MSD | Injection Number | : 1 |
| Run Time Bar Code: | | Sequence Line | : 2 |
| Acquired on | : 01 Sep 97 10:32 PM | Instrument Method | : RK11.MTH |
| Report Created on | : 09 Sep 97 09:03 PM | Analysis Method | : ARPCBRB.MTH |
| Last Recalib on | : 29 AUG 97 12:07 PM | Sample Amount | : 0 |
| Multiplier | : 1 | ISTD Amount | : |

# E.

# MISCELLANEOUS DATA

CHEMTECH
CONSULTING GROUP, INC.

## Daily Maintance Runlog For GC #: ECD 1

| | | |
|---|---|---|
| 1. | | |
| 2. | | |
| 3 | | |
| 4 | | |
| 5 | | |

Logbook Page: 000254

## Daily Analysis Runlog For GC #: ECD 1

CHEMTECH
CONSULTING GROUP, INC.

Start Date: __/__/____ End Date: __/__/____ Analyst _____ Review By: _____

| STD. NAME | STD REF. #: | STD NAME | STD REF. #: |
|---|---|---|---|
| RES. Std. | | Initial Calibration Stds. | |
| PEM Std. | | | |
| MID A Std. | | | |
| MID B Std. | | | |
| QC Check Std. | | | |

| SR. #: | Sample ID | Batch #: | Data File Name | Dil. Fact. | Method #: | Comment |
|---|---|---|---|---|---|---|
| 1 | 26718 | | 081 final | | | 4967CLP |
| 2 | 26719 | | 082 final | | | |
| 3 | 26720 | | 083 final | | | |
| 4 | 26721 | | 084 final | | | |
| 5 | 26722 | | 085 final | | | |
| 6 | AR1660 | | 086 final | | | |
| 7 | I Blank | | 087 final | | | |
| 8 | 26723 | | 088 final | | | 4967CLP |
| 9 | 26724 | | 089 final | | | |
| 10 | 26725 | | 090 final | | | |
| 11 | 26726 | | 091 final | | | |
| 12 | 26727 | | 092 final | | | |
| 13 | 26728 | | 093 final | | | |
| 14 | Blank Spike | | 094 final | | | |
| 15 | AR1660 | | 095 final | | | |
| 16 | I. Blank | | 096 final | | | |
| 17 | M. Blank | | 097 final | | | |
| 18 | 26729 | | 098 final | | | 4968CLP |
| 19 | 26730 | | 099 final | | | |
| 20 | 26731 | | 100 final | | | |

Logbook Page: 000255

CHEMTECH
CONSULTING GROUP, INC.

## Daily Maintance Runlog For GC #: ECD 1

| | | |
|---|---|---|
| 1. | | |
| 2. | | |
| 3 | | |
| 4 | | |
| 5 | | |

Logbook Page: 000255

## Daily Analysis Runlog For GC #: ECD 1

CHEMTECH
CONSULTING GROUP, INC.

Start Date: __/__/____ End Date: __/__/____ Analyst _____ Review By: _____

| STD. NAME | STD REF. #: | STD NAME | STD REF. #: |
|---|---|---|---|
| RES. Std. | | Initial Calibration Stds. | |
| PEM Std. | | | |
| MID A Std. | | | |
| MID B Std. | | | |
| QC Check Std. | | | |

| SR. #: | Sample ID | Batch #: | Data File Name | Dil. Fact. | Method #: | Comment |
|---|---|---|---|---|---|---|
| 1 | 26708 MS | | 001 f0201 | | | 4967 CLP |
| 2 | 26709 MSD | | 002 f0201 | | | ↓ |
| 3 | 26732 MS | | 003 f0201 | | | 4968 CLP |
| 4 | 26733 MSD | | 004 f0201 | | | ↓ |
| 5 | AR 166 | | 005 f0201 | | | |
| 6 | IB blk | | 006 f0201 | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |

Logbook Page: 000256

CHEMTECH
CONSULTING GROUP, INC.

## Extraction Logpage For: Pesticide / PCB's

PCB (8080) Soil

Batch #: 8P99E

| | Sample #: | Proj. #: | Wt. / Vol. (g. / mL.) | Date | pH | Final Vol. (mL) | Ver. Sur. | Ver. Spk. | Comment |
|---|---|---|---|---|---|---|---|---|---|
| | 26729 | 4968 | 30.0 | 8/29 | | 10.0 | MZ | | |
| 2 | 26730 | ↓ | ↓ | ↓ | | ↓ | MZ | | |
| | 26731 | | | | | | MZ | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| | 26732 | 4968 GP | 30.0 | 8/29 | | 10.0 | MZ | MZ | |
| | 26733 | ↓ | ↓ | ↓ | | ↓ | MZ | MZ | |

LK, BLK SPIKE Extracted per day of Extraction Batch

Logbook Page No.: 000124

CHEMTECH
CONSULTING GROUP, INC.

## Extraction Logpage For: Pesticide / PCB's

Matrix: Soil Method #: 8080 Batch #: 8P99E

Cleanup Method : _____ By: _____ Date : 8/29/97

Setup by: MZ Date : 8/29/97

Concentraction by: MZ Date : 8/29/97

| QC | mL. Spike | Std. Ref. #: From logbook |
|---|---|---|
| Blank Spike | 1.0 | X.0070 |
| Matrix Spike | | |
| Matrix Spike Duplicate | | |
| Surrogate | 1.0 | X.0075 |
| | | |
| | | |

| Solvent/Chemical Used | Lot #: | Comment |
|---|---|---|
| Dichlro Methane | L19291 | JT Baker |
| Aceton | G2961 | GJ chem. |
| Hexane | 36313 | Em Science |
| Sodium Sulfate | 590408 | Anachemia |
| Ether | | |
| | | |

Daily QC

| Sr. #: | Sample #: | Proj. #: | Wt. / Vol. (g. / mL.) | Date | pH | Final Vol. (mL) | Ver. Sur. | Ver. Spk. | Balance Check |
|---|---|---|---|---|---|---|---|---|---|
| 1 | BLK1 | 4968 GP | 30.0 | 8/29 | | 10.0 | MZ | | |
| 2 | BLK SPK1 | ↓ | ↓ | ↓ | | ↓ | MZ | MZ | |
| 3 | BLK2 | | | | | | | | |
| 4 | BLK SPK2 | | | | | | | | |
| 5 | BLK3 | | | | | | | | |
| 6 | BLKSPK3 | | | | | | | | |

Logbook Page No.: 000124

# F.

# EPA SHIPPING / RECEIVING DOCUMENTS

RFP No.:

PO No.:

# CHAIN OF CUSTODY RECORD

WESTON. MANAGERS DESIGNERS/CONSULTANTS

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

| Matrix Box No.: | Preservative Box No.: |
|---|---|
| 1. Surface Water | 1. HCl |
| 2. Ground Water | 2. HNO3 |
| 3. Leachate | 3. Na2SO4 |
| 4. Rinsate | 4. H2SO4 |
| 5. Soil/Sediment | 5. Other (Specify) |
| 6. Oil | 6. Ice Only |
| 7. Waste | N. Not Preserved |
| 8. Other (Specify) DW/NPDES | * See Comments |

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II START
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, START Analytical Coordinator Chemtech Project 4968 CLP

| Sample Number | Sample Collection MM/DD/YY/Time | Sample Matrix (Enter box #) | Conc. Low-L Med-M High-H | Sample Type Comp-C Grab-G | Sample Preserv. (Enter box #) | RAS ANALYSIS VOA | BNA | PEST | PCBs | TAL | CN | RCRA ANALYSIS KIN | COR | REAC | OTHER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | Sample ID |
| SSED(D) | 8/27/97 1440 | 5 | L/M | G | 6 | | | | X | | | | | | |
| TSED (S) | 1450 | | | | | | | | | | | | | | |
| USED (S) | 1420 | | | | | | | | | | | | | | |
| VSED (S) | 1410 | | | | | | | | | | | | | | |
| WSED(S) | 1410 | | | | | | | | | | | | | | 26729 |
| WSED(D) | 1415 | | | | | | | | | | | | | | 26730 |
| RB-3 | 1600 | 8 | L/M | G | 6 | | | | | | | | | | QA/QC SAMPLE 26731 EQUIPMENT BLANK |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

Comments:

| Person Assuming Responsibility for Sample: | Time | Date (MM/DD/YY) |
|---|---|---|
| MIKE MAHONKOPH / HEMENDRA MORADIA | 1640 | 8/27/97 |

| Sample Number | Relinquished By: | Time | Date | Received By: | Reason for Change of Custody |
|---|---|---|---|---|---|
| ALL | H. Moradia | 1745 | 8/27/97 | Mark Williams #49 | LAB ANALYSIS |

| Sample Number | Relinquished By: | Time | Date | Received By: | Reason for Change of Custody |
|---|---|---|---|---|---|
| | | 1845 | 8/27 | B. Morrow | |

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

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

8 of 8 100092

ALL SAMPLES except WSED(S), WSED(D), & RB-3 are in chem Pr. NO. 4967CLP.

In Reference to COC No(s): NA

CLIENT / LABORATORY COMMUNICATION SYSTEM

Telephone Record Log

Date of Call: 8/28/97

Laboratory Name: Chemtech

Lab Contact: B. Moroni

CLIENT: WESTON

CLIENT Contact: Simita Sumbaly

Call Initiated By: X Laboratory ___ Client

In reference to data for the following sample number(s):

GC

Summary of Questions/Issues Discussed:

Received 82 PCB Soils & 1 PCB ~~Field~~ Equipment Blank. only 4 QC samples were assigned. lab needs one more to complete the SDG

Summary of Resolution:

Go ahead & choose one. lab will do QC on WSED(D).

B. Moroni 8/28/97

Signature Date

CHEMTECH
110 Route 4
Englewood, New Jersey 07631
Phone: (201) 567-6868 Fax: (201) 567-1333

512 Route 9
Forked River, New Jersey 08731
Phone: (609) 693-2111 Fax: (609) 971-9300

# DATA PACKAGE FOR PCBS

# RFP 2090
# SITE G2
# TDD # 02-97-02-0015

**ROY F. WESTON INC.**
**USEPA REGION II START**
**SUITE 201**
**1090 KING GEORGES POST ROAD**
**EDISON, NJ 08837-3703**

**CHEMTECH PROJECT #** **4968CLP**
**ATTENTION** **SMITA SUMBALY**

PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: CHEMTECH CONSULTING GROUP Contract: WESTON

Lab Code: CHEM

EPA Sample No. (PEM): AR1660 DATE ANALYSED 9/1/97

Lab Sample ID (PEM): 095F0101 Time Analyzed: 01:19PM

| PCB COMPOUND | CALC AMOUNT (ng) | NOM AMOUNT (ng) | RPD |
|---|---|---|---|
| PCB 1016 | 521.736 | 500 | 4.3472 |
| PCB 1260 | 512.345 | 500 | 2.469 |

QC LIMITS:

RPD of amounts in PCB must be less than or equal to 25.0%

000025A
kn
1117

PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: CHEMTECH CONSULTING GROUP Contract: WESTON

Lab Code: CHEM

EPA Sample No. (PEM): AR1660 DATE ANALYSED 9/1/97

Lab Sample ID (PEM): 005F0101 Time Analyzed: 11:34PM

| PCB COMPOUND | CALC AMOUNT (ng) | NOM AMOUNT (ng) | RPD |
|---|---|---|---|
| PCB 1016 | 511.5045 | 500 | 2.3009 |
| PCB 1260 | 495.536 | 500 | 0.8928 |

QC LIMITS:

RPD of amounts in PCB must be less than or equal to 25.0%

000025B
11/1 KM