SDMS Document
98462

THE
WHITMAN
COMPANIES, INC.

Setting the Standard in
Environmental Engineering & Management

FINAL REMEDIAL INVESTIGATION REPORT

FOR

ROCKAWAY BOROUGH WELL FIELD SITE
OPERABLE UNIT #3
FOR PROPERTY OF
KLOCKNER & KLOCKNER
ROCKAWAY BOROUGH, NEW JERSEY

VOLUME 17
LABORATORY QA/QC DATA PACKAGE
10/9/00 – JOB #E510

SUBMITTED TO
USEPA-REGION II
EMERGENCY & REMEDIAL RESPONSE DIVISION
NEW YORK, NEW YORK

SUBMITTED BY
THE WHITMAN COMPANIES, INC.
ON BEHALF OF KLOCKNER & KLOCKNER

IN ACCORDANCE WITH
ADMINISTRATIVE ORDER ON CONSENT
INDEX NO. II-CERCLA-95-0104

307164

MAY 2004

116 Tices Lane, Unit B-1, East Brunswick, NJ 08816
www.whitmanco.com

SEVERN TRENT SERVICES

STL Edison
777 New Durham Road
Edison, NJ 08817

Tel: 732-549-3900
Fax: 732-549-3679
www.stl-inc.com

October 26, 2000

The Whitman Companies, Inc.
44 West Ferris Street
East Brunswick, NJ 08816

Attention: Mr. Michael Metlitz

Re: E510 - Klockner & Klockner

Dear Mr. Metlitz:

Enclosed are the results you requested for the following sample(s) received at our laboratory on October 09, 2000:

Lab No.	Client ID	Analysis Required
234142	Trip_Blank	Purgeable Halocarbons
234143	FB100900	Purgeable Halocarbons
234144	SSAW-23_1-1.5	Purgeable Halocarbons
234145	SSAW-Dup_1-1.5	Purgeable Halocarbons

If you have any questions please contact your Project Manager, Brian Reddy, at (732) 549-3900.

Very truly yours,

Michael J. Urban
Laboratory Manager

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SEVERN TRENT SERVICES

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SEVERN TRENT SERVICES

Client ID: **Trip_Blank**
Site: Klockner & Klockner

Lab Sample No: **234142**
Lab Job No: E510

Date Sampled: 10/09/00
Date Received: 10/09/00
Date Analyzed: 10/13/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held8532.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC

Parameter	Analytical Results Units: ug/kg	Quantitation Limit Units: ug/kg
Dichlorodifluoromethane	ND	120
Chloromethane	ND	120
Vinyl Chloride	ND	120
Bromomethane	ND	120
Chloroethane	ND	120
Trichlorofluoromethane	ND	120
1,1-Dichloroethene	ND	120
Methylene Chloride	ND	120
trans-1,2-Dichloroethene	ND	120
1,1-Dichloroethane	ND	120
cis-1,2-Dichloroethene	ND	120
Chloroform	ND	120
1,1,1-Trichloroethane	ND	120
Carbon Tetrachloride	ND	120
1,2-Dichloroethane	ND	120
Trichloroethene	ND	120
1,2-Dichloropropane	ND	120
Bromodichloromethane	ND	120
2-Chloroethyl Vinyl Ether	ND	120
cis-1,3-Dichloropropene	ND	120
trans-1,3-Dichloropropene	ND	120
1,1,2-Trichloroethane	ND	120
Tetrachloroethene	ND	120
Dibromochloromethane	ND	120
Chlorobenzene	ND	120
Bromoform	ND	120
1,1,2,2-Tetrachloroethane	ND	120
1,3-Dichlorobenzene	ND	120
1,4-Dichlorobenzene	ND	120
1,2-Dichlorobenzene	ND	120

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SEVERN TRENT SERVICES

Client ID: FB100900
Site: Klockner & Klockner

Lab Sample No: 234143
Lab Job No: E510

Date Sampled: 10/09/00
Date Received: 10/09/00
Date Analyzed: 10/13/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held8535.d

Matrix: WATER
Level: MED
Purge Volume: 5.0 ml
Final Volume: 0.0 mL
Dilution Factor: 1.0

VOLATILE ORGANICS - GC

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Dichlorodifluoromethane	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	1.0
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
1,1-Dichloroethene	ND	1.0
Methylene Chloride	ND	1.0
trans-1,2-Dichloroethene	ND	1.0
1,1-Dichloroethane	ND	1.0
cis-1,2-Dichloroethene	ND	1.0
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	1.0
Carbon Tetrachloride	ND	1.0
1,2-Dichloroethane	ND	1.0
Trichloroethene	ND	1.0
1,2-Dichloropropane	ND	1.0
Bromodichloromethane	ND	1.0
2-Chloroethyl Vinyl Ether	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
Tetrachloroethene	ND	1.0
Dibromochloromethane	ND	1.0
Chlorobenzene	ND	1.0
Bromoform	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
1,2-Dichlorobenzene	ND	1.0

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SEVERN TRENT SERVICES

Client ID: SSAW-23_1-1.5
Site: Klockner & Klockner

Lab Sample No: 234144
Lab Job No: E510

Date Sampled: 10/09/00
Date Received: 10/09/00
Date Analyzed: 10/13/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held8533.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 15.0

VOLATILE ORGANICS - GC

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Dichlorodifluoromethane	ND	140
Chloromethane	ND	140
Vinyl Chloride	ND	140
Bromomethane	ND	140
Chloroethane	ND	140
Trichlorofluoromethane	ND	140
1,1-Dichloroethene	ND	140
Methylene Chloride	ND	140
trans-1,2-Dichloroethene	ND	140
1,1-Dichloroethane	ND	140
cis-1,2-Dichloroethene	ND	140
Chloroform	ND	140
1,1,1-Trichloroethane	ND	140
Carbon Tetrachloride	ND	140
1,2-Dichloroethane	ND	140
Trichloroethene	350	140
1,2-Dichloropropane	ND	140
Bromodichloromethane	ND	140
2-Chloroethyl Vinyl Ether	ND	140
cis-1,3-Dichloropropene	ND	140
trans-1,3-Dichloropropene	ND	140
1,1,2-Trichloroethane	ND	140
Tetrachloroethene	280	140
Dibromochloromethane	ND	140
Chlorobenzene	ND	140
Bromoform	ND	140
1,1,2,2-Tetrachloroethane	ND	140
1,3-Dichlorobenzene	ND	140
1,4-Dichlorobenzene	ND	140
1,2-Dichlorobenzene	ND	140

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SEVERN TRENT SERVICES

Client ID: **SSAW-Dup_1-1.5**
Site: Klockner & Klockner

Lab Sample No: **234145**
Lab Job No: E510

Date Sampled: 10/09/00
Date Received: 10/09/00
Date Analyzed: 10/13/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held8534.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 17.6

VOLATILE ORGANICS - GC

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Dichlorodifluoromethane	ND	140
Chloromethane	ND	140
Vinyl Chloride	ND	140
Bromomethane	ND	140
Chloroethane	ND	140
Trichlorofluoromethane	ND	140
1,1-Dichloroethene	ND	140
Methylene Chloride	ND	140
trans-1,2-Dichloroethene	ND	140
1,1-Dichloroethane	ND	140
cis-1,2-Dichloroethene	ND	140
Chloroform	ND	140
1,1,1-Trichloroethane	ND	140
Carbon Tetrachloride	ND	140
1,2-Dichloroethane	ND	140
Trichloroethene	210	140
1,2-Dichloropropane	ND	140
Bromodichloromethane	ND	140
2-Chloroethyl Vinyl Ether	ND	140
cis-1,3-Dichloropropene	ND	140
trans-1,3-Dichloropropene	ND	140
1,1,2-Trichloroethane	ND	140
Tetrachloroethene	270	140
Dibromochloromethane	ND	140
Chlorobenzene	ND	140
Bromoform	ND	140
1,1,2,2-Tetrachloroethane	ND	140
1,3-Dichlorobenzene	ND	140
1,4-Dichlorobenzene	ND	140
1,2-Dichlorobenzene	ND	140

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The Whitman Companies, Inc.
44 West Ferris Street
East Brunswick, New Jersey 08816

CHAIN-OF-CUSTODY

PROJECT NAME: Klockner + Klockner
PROJECT NO: 950302N2
LABORATORY: S.T.L

SITE ADDRESS: Rockaway Borough, Morris County N.J.
SAMPLE DATE: 10/9/00
SAMPLER(S): E

DATE ESTO

SAMPLE TIME	SAMPLE LOCATION	SAMPLE ID#	SAMPLE DEPTH	SAMPLE MATRIX	ANALYSIS REQUESTED	PRESER-VATIVE	NO. OF CONT.	~~SPECIAL INSTRUCTIONS~~
—		FB	—	~~H2O~~ MEOH	VOC (8021b)		1	10/9/00 234142
1115		FB100900	—	H_2O	VOC		2	10/9/00 234143
1130		SSAW-23	1-1.5'	soil	VOC		2	10/9/00 234144
1130		SSAW-Dup	1-1.5'	soil	VOC		2	10/9/00 234145
							0	

RELINQUISHED BY: [signature] DATE 10/9/00 TIME: RECEIVED BY: [signature] DATE: 10/9/00 TIME 1320

RELINQUISHED BY: DATE: TIME: RECEIVED BY: DATE: TIME

ANALYTICAL PARAMETER IDENTIFICATION KEY:
PHC: PETROLEUM HYDROCARBONS
VOC: VOLATILE ORGANICS BY GC/MS WITH LIBRARY SEARCH
PAH: POLYCYCLIC AROMATIC HYDROCARBONS IN BASE NEUTRAL SCAN WITH LIBRARY SEARCH
BN: BASE NEUTRALS WITH LIBRARY SEARCH
AE: ACID EXTRACTABLES WITH LIBRARY SEARCH
PPM: PRIORITY POLLUTANT METALS
PP+40: PRIORITY POLLUTANT PLUS FORTY PEAKS

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TOTAL NO. CONTAINERS_____

The Whitman Companies
44 West Ferris Street
East Brunswick, NJ 08816
908-390-5858

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: E510 **Site:** Klockner & Klockner

Client: The Whitman Companies, Inc.

VOAGC

8021Be

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
WATER							
234143	10/9/2000	10/09/2000			10/13/00	SP	7101
SOLID							
234142	10/9/2000	10/09/2000			10/13/00	SP	7101
234144	10/9/2000	10/09/2000					
234145	10/9/2000	10/09/2000					

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Analytical Methodology Summary

Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B. Water samples are analyzed for volatile organics by purge and trap GC/PID and GC/ELCD as specified in EPA Methods 601 and 602. Solid samples are analyzed by GC/PID and GC/ELCD in accordance with SW-846, 3rd Edition Method 8021B.

Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

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Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)

A - Flame Atomic Absorption

F - Furnace Atomic Absorption

CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition); samples are digested according to Method 3050B "Acid Digestion of Soil, Sediments and Sludges."

Specific method references for ICP analyses are water Method 200.7 and solid Method 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1 and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

	Water Test Method		Solid Test Method	
Element	Flame	Furnace	Flame	Furnace
Aluminum	202.1	202.2	7020	--
Antimony	204.1	204.2	7040	7041
Arsenic	--	206.2	--	7060
Barium	208.1	--	7080	--
Beryllium	210.1	210.2	7090	7091
Cadmium	213.1	213.2	7130	7131
Calcium	215.1	--	7140	--
Chromium, Total	218.1	218.2	7190	7191
Chromium, (+6)	218.4	218.5	7197	7195
Cobalt	219.1	219.2	7200	7201
Copper	220.1	220.2	7210	--
Iron	236.1	236.2	7380	--
Lead	239.1	239.2	7420	7421
Magnesium	242.1	--	7450	--
Manganese	243.1	243.2	7460	--
Nickel	249.1	249.2	7520	--
Potassium	258.1	--	7610	--
Selenium	--	270.2	--	7740
Silver	272.1	272.2	7760	--
Sodium	273.1	--	7770	--
Tin	283.1	283.2	7870	--
Thallium	279.1	279.2	7840	7841
Vanadium	286.1	286.2	7910	7911
Zinc	289.1	289.2	7950	--

Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

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Phenols:

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

Cleanup of Semivolatile Extracts:

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition). Specific method references are as follows:

Ignitability	- Method 1020A
Corrosivity	- Water pH Method 9040B Soil pH Method 9045C
Reactivity	- Chapter 7, Section 7.3.3 and 7.3.4 respectively for hydrogen cyanide and hydrogen sulfide release
Toxicity	- TCLP Method 1311

Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 17th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

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DATA REPORTING QUALIFIERS

ND - The compound was not detected at the indicated concentration.

J - Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified detection limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

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NON-CONFORMANCE SUMMARY

STL Envirotech Job Number: F510

Volatile Organics Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Base/Neutral and/or Acid Extractable Organics:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

PCBs and/or Organochlorine Pesticides:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

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Non-conformance Summary, Page 2 of 2
STL Envirotech Job Number: F510

Metals Analysis:

All data conforms with method requirements ____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Total Petroleum Hydrocarbons:

All data conforms with method requirements ____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

General Chemistry/Disposal Parameters:

All data conforms with method requirements ____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Signature of
Laboratory Manager: [signature] Date: 10-26-00

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Client ID: **Trip_Blank**
Site: Klockner & Klockner

Lab Sample No: **234142**
Lab Job No: E510

Date Sampled: 10/09/00
Date Received: 10/09/00
Date Analyzed: 10/13/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held8532.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC

Parameter	Analytical Results Units: ug/kg	Quantitation Limit Units: ug/kg
Dichlorodifluoromethane	ND	120
Chloromethane	ND	120
Vinyl Chloride	ND	120
Bromomethane	ND	120
Chloroethane	ND	120
Trichlorofluoromethane	ND	120
1,1-Dichloroethene	ND	120
Methylene Chloride	ND	120
trans-1,2-Dichloroethene	ND	120
1,1-Dichloroethane	ND	120
cis-1,2-Dichloroethene	ND	120
Chloroform	ND	120
1,1,1-Trichloroethane	ND	120
Carbon Tetrachloride	ND	120
1,2-Dichloroethane	ND	120
Trichloroethene	ND	120
1,2-Dichloropropane	ND	120
Bromodichloromethane	ND	120
2-Chloroethyl Vinyl Ether	ND	120
cis-1,3-Dichloropropene	ND	120
trans-1,3-Dichloropropene	ND	120
1,1,2-Trichloroethane	ND	120
Tetrachloroethene	ND	120
Dibromochloromethane	ND	120
Chlorobenzene	ND	120
Bromoform	ND	120
1,1,2,2-Tetrachloroethane	ND	120
1,3-Dichlorobenzene	ND	120
1,4-Dichlorobenzene	ND	120
1,2-Dichlorobenzene	ND	120

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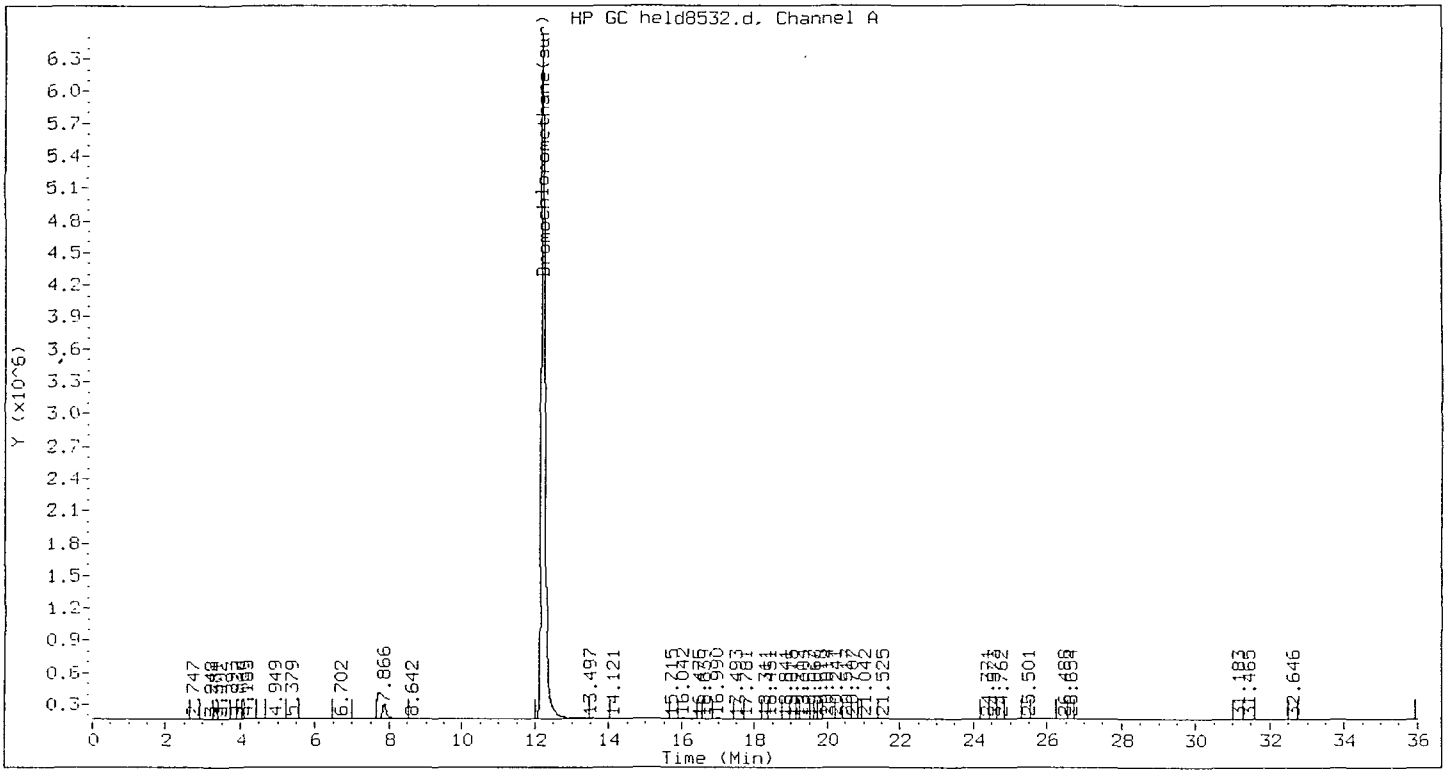
Data File: /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/held8532.d Page 1
Report Date 10/16/2000 07:26



Method : /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/8021BEHIGH.m
Sample Info : 234142;;50
Lab ID : 234142
Inj Date : 13-OCT-2000 14:12
Operator : SP
Cpnd Sublist: 601

Inst ID : VOAGC2.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Bromochloromethane(sur)	12.207	12.197	0.009	226384570	31.763	3970.317

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Client ID: **FB100900**
Site: Klockner & Klockner

Lab Sample No: **234143**
Lab Job No: E510

Date Sampled: 10/09/00
Date Received: 10/09/00
Date Analyzed: 10/13/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held8535.d

Matrix: WATER
Level: MED
Purge Volume: 5.0 ml
Final Volume: 0.0 mL
Dilution Factor: 1.0

VOLATILE ORGANICS - GC

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Dichlorodifluoromethane	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	1.0
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
1,1-Dichloroethene	ND	1.0
Methylene Chloride	ND	1.0
trans-1,2-Dichloroethene	ND	1.0
1,1-Dichloroethane	ND	1.0
cis-1,2-Dichloroethene	ND	1.0
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	1.0
Carbon Tetrachloride	ND	1.0
1,2-Dichloroethane	ND	1.0
Trichloroethene	ND	1.0
1,2-Dichloropropane	ND	1.0
Bromodichloromethane	ND	1.0
2-Chloroethyl Vinyl Ether	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
Tetrachloroethene	ND	1.0
Dibromochloromethane	ND	1.0
Chlorobenzene	ND	1.0
Bromoform	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
1,2-Dichlorobenzene	ND	1.0

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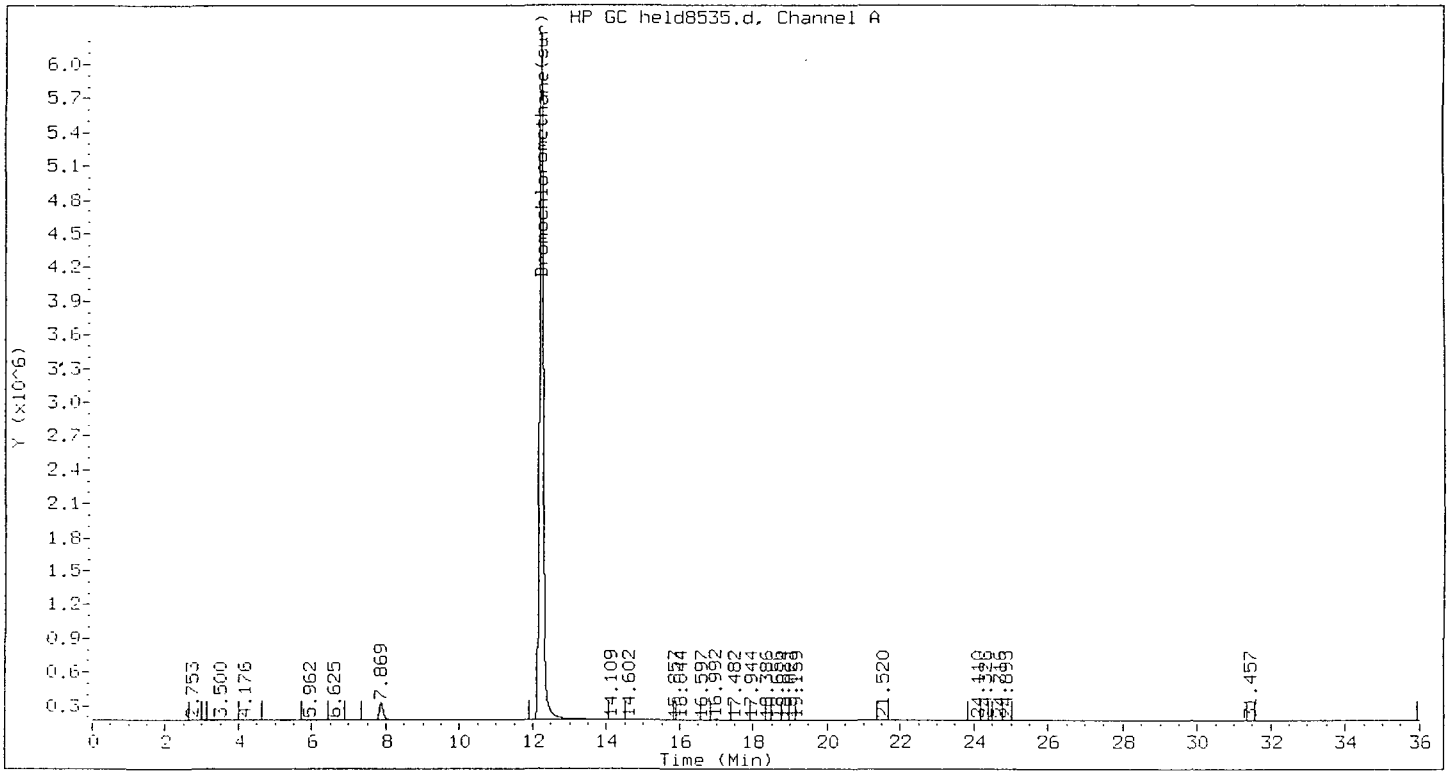


Method : /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/8021BEHIGH.m
Sample Info : 234143
Lab ID : 234143
Inj Date : 13-OCT-2000 16:22
Operator : SP
Cpnd Sublist: 601

Inst ID : VOAGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Bromochloromethane(sur)	12.212	12.197	0.014	215848900	30.284	30.284

307182

Client ID: **SSAW-23_1-1.5**
Site: Klockner & Klockner

Lab Sample No: **234144**
Lab Job No: E510

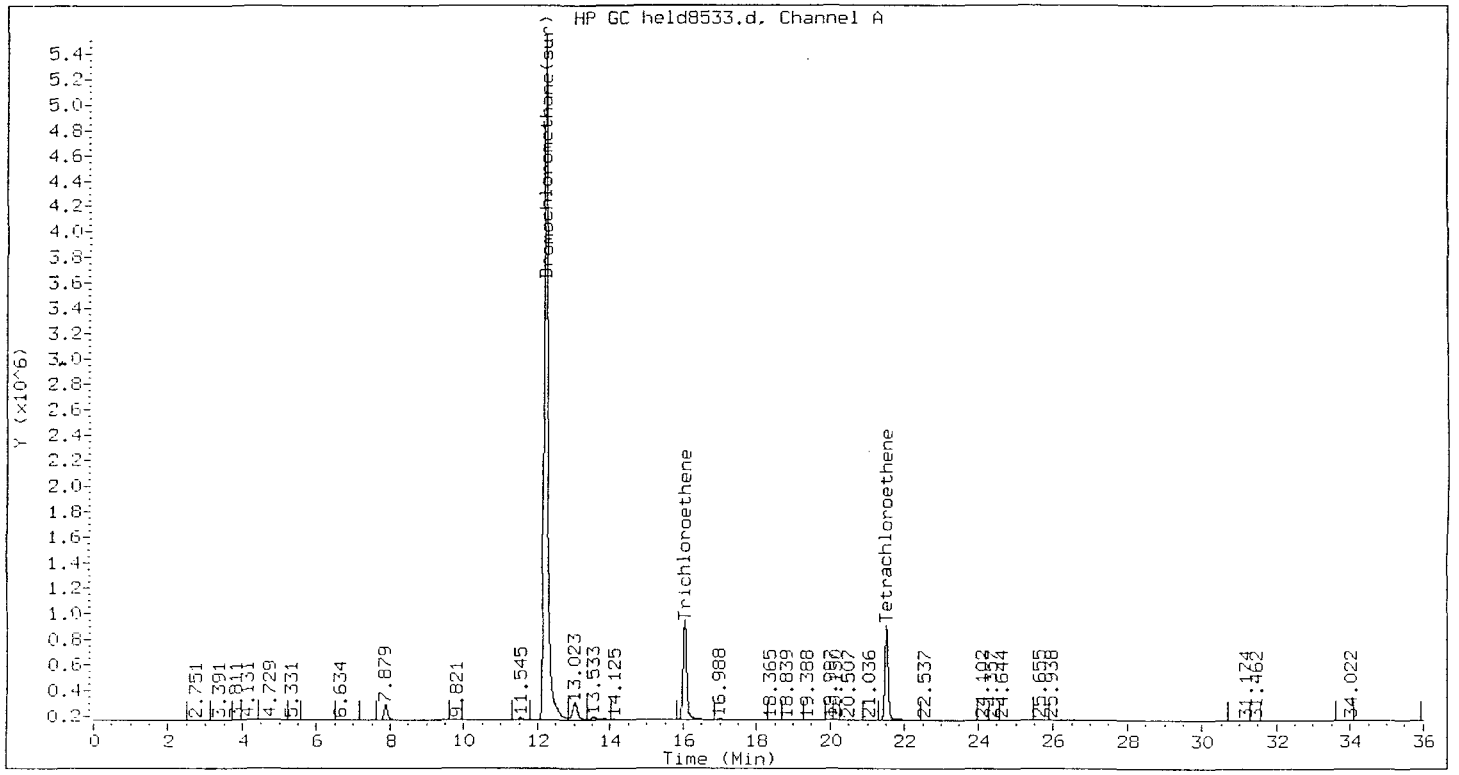
Date Sampled: 10/09/00
Date Received: 10/09/00
Date Analyzed: 10/13/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held8533.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 15.0

VOLATILE ORGANICS - GC

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Dichlorodifluoromethane	ND	140
Chloromethane	ND	140
Vinyl Chloride	ND	140
Bromomethane	ND	140
Chloroethane	ND	140
Trichlorofluoromethane	ND	140
1,1-Dichloroethene	ND	140
Methylene Chloride	ND	140
trans-1,2-Dichloroethene	ND	140
1,1-Dichloroethane	ND	140
cis-1,2-Dichloroethene	ND	140
Chloroform	ND	140
1,1,1-Trichloroethane	ND	140
Carbon Tetrachloride	ND	140
1,2-Dichloroethane	ND	140
Trichloroethene	350	140
1,2-Dichloropropane	ND	140
Bromodichloromethane	ND	140
2-Chloroethyl Vinyl Ether	ND	140
cis-1,3-Dichloropropene	ND	140
trans-1,3-Dichloropropene	ND	140
1,1,2-Trichloroethane	ND	140
Tetrachloroethene	280	140
Dibromochloromethane	ND	140
Chlorobenzene	ND	140
Bromoform	ND	140
1,1,2,2-Tetrachloroethane	ND	140
1,3-Dichlorobenzene	ND	140
1,4-Dichlorobenzene	ND	140
1,2-Dichlorobenzene	ND	140

307183



Method : /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/8021BEHIGH.m
Sample Info : 234144;;50
Lab ID : 234144
Inj Date : 13-OCT-2000 14:55
Operator : SP
Cpnd Sublist: 601
Inst ID : VOAGC2.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
Trichloroethene	16.038	16.027	0.012	27186881	2.543	352.832
Tetrachloroethene	21.512	21.505	0.007	23537105	2.056	285.172
Bromochloromethane(sur)	12.218	12.197	0.020	198190853	27.807	3857.778

307184

Client ID: **SSAW-Dup_1-1.5**
Site: Klockner & Klockner

Lab Sample No: **234145**
Lab Job No: E510

Date Sampled: 10/09/00
Date Received: 10/09/00
Date Analyzed: 10/13/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held8534.d

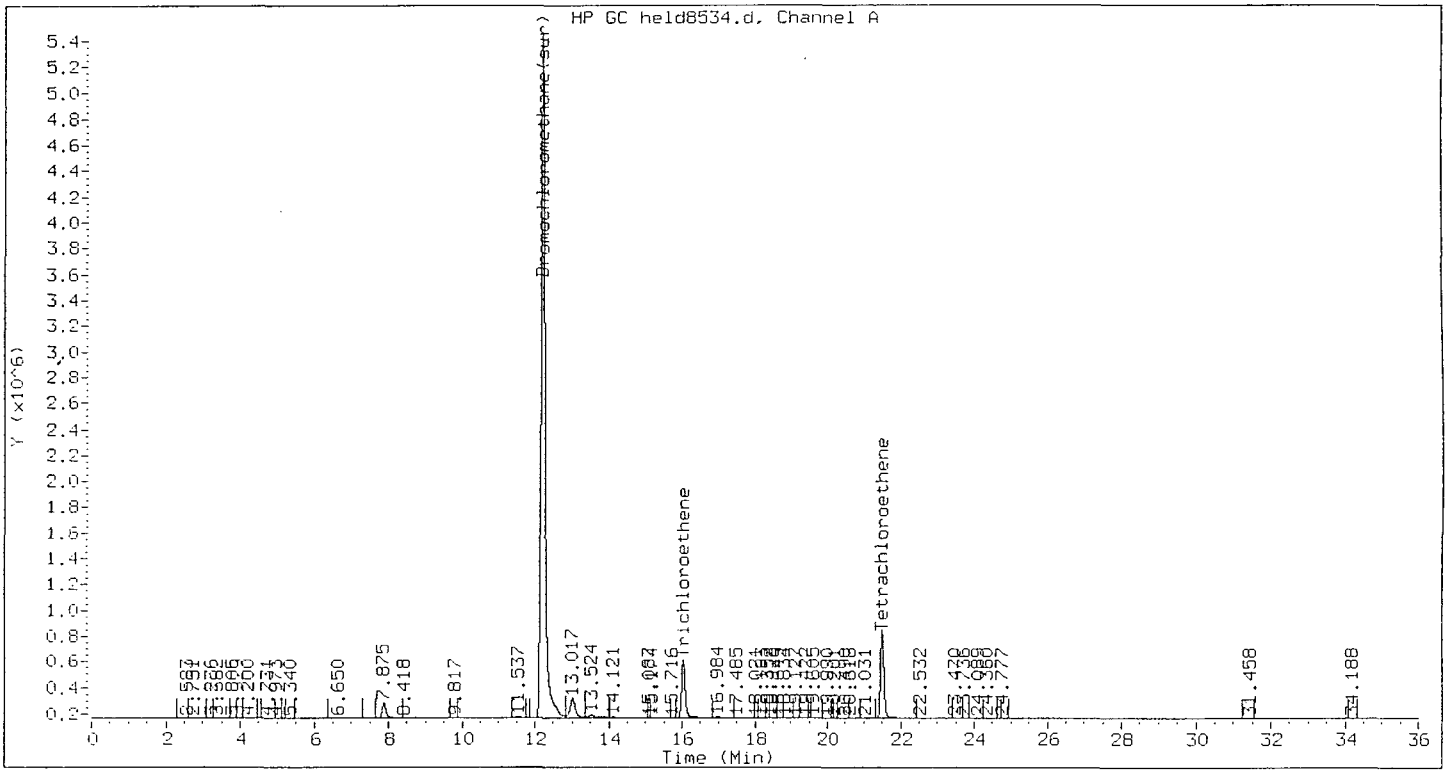
Matrix: SOIL
Level: HIGH
Sample Weight: 11 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 17.6

VOLATILE ORGANICS - GC

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Dichlorodifluoromethane	ND	140
Chloromethane	ND	140
Vinyl Chloride	ND	140
Bromomethane	ND	140
Chloroethane	ND	140
Trichlorofluoromethane	ND	140
1,1-Dichloroethene	ND	140
Methylene Chloride	ND	140
trans-1,2-Dichloroethene	ND	140
1,1-Dichloroethane	ND	140
cis-1,2-Dichloroethene	ND	140
Chloroform	ND	140
1,1,1-Trichloroethane	ND	140
Carbon Tetrachloride	ND	140
1,2-Dichloroethane	ND	140
Trichloroethene	210	140
1,2-Dichloropropane	ND	140
Bromodichloromethane	ND	140
2-Chloroethyl Vinyl Ether	ND	140
cis-1,3-Dichloropropene	ND	140
trans-1,3-Dichloropropene	ND	140
1,1,2-Trichloroethane	ND	140
Tetrachloroethene	270	140
Dibromochloromethane	ND	140
Chlorobenzene	ND	140
Bromoform	ND	140
1,1,2,2-Tetrachloroethane	ND	140
1,3-Dichlorobenzene	ND	140
1,4-Dichlorobenzene	ND	140
1,2-Dichlorobenzene	ND	140

307185

Data File: /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/held8534.d Page 1
Report Date 10/16/2000 07:26



Method : /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/8021BEHIGH.m
Sample Info : 234145;;50
Lab ID : 234145
Inj Date : 13-OCT-2000 15:39
Operator : SP
Cpnd Sublist: 601

Inst ID : VOAGC2.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
Trichloroethene	16.034	16.027	0.008	15731984	1.472	206.712
Tetrachloroethene	21.506	21.505	0.000	21825115	1.906	267.722
Bromochloromethane(sur)	12.211	12.197	0.014	200168787	28.084	3944.789

307186

LAB SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

HG287

Date Analyzed: 10/13/00 Instrument ID: VOAGC2

Time Analyzed: 1329 Lab File ID: HELD8531

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

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	TIME ANALYZED
01	TRIP_BLANK	234142	HELD8532	1412
02	SSAW-23_1-1.	234144	HELD8533	1455
03	SSAW-DUP_1-1	234145	HELD8534	1539
04	FB100900	234143	HELD8535	1622
05	SSAW-DUP_1-1	234145MS	HELD8536	1705
06	SSAW-DUP_1-1	234145MSD	HELD8537	1748
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

Client ID: **HG287**
Site:

Lab Sample No: **HG287**
Lab Job No: E510

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/13/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held8531.d

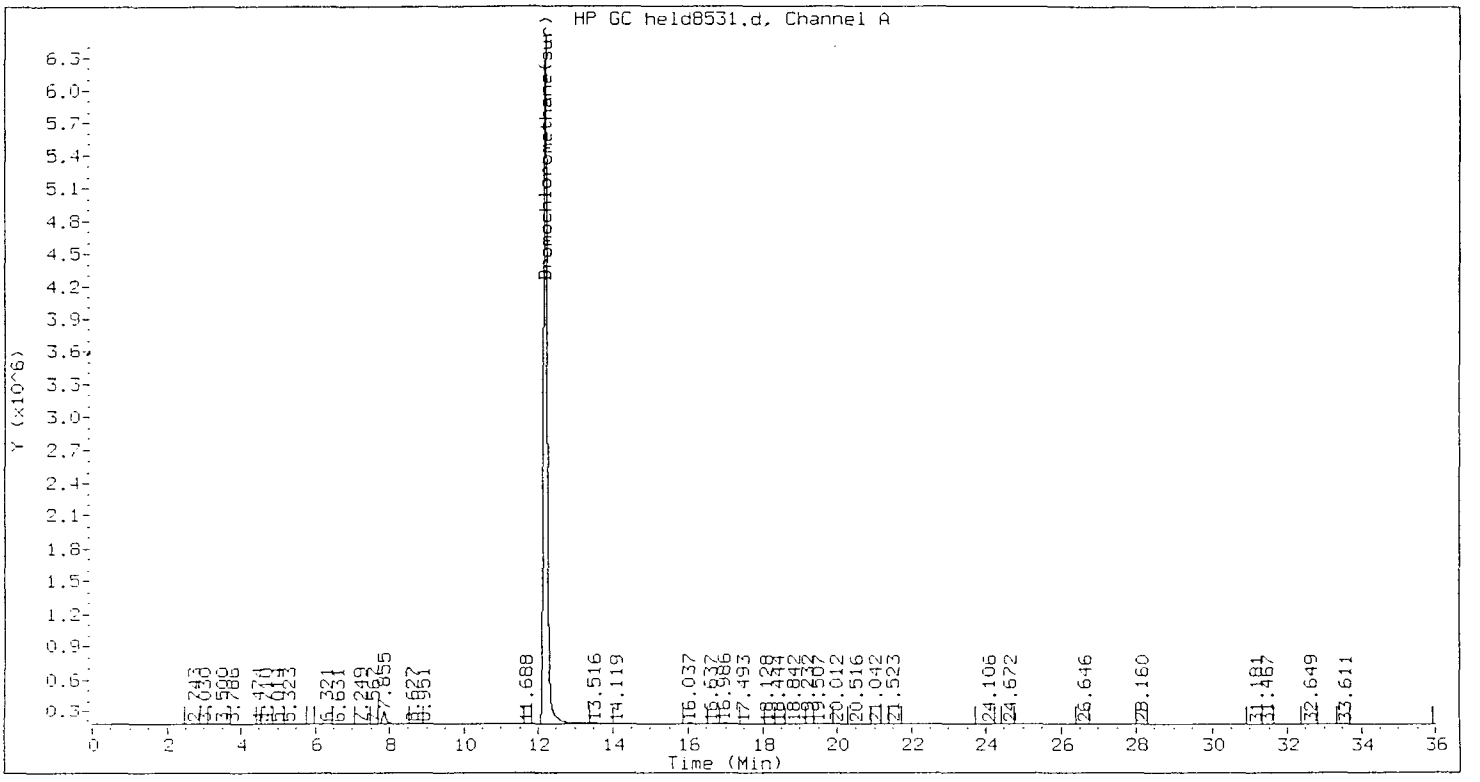
Matrix: SOIL
Level: HIGH
Sample Weight: 10 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Dichlorodifluoromethane	ND	120
Chloromethane	ND	120
Vinyl Chloride	ND	120
Bromomethane	ND	120
Chloroethane	ND	120
Trichlorofluoromethane	ND	120
1,1-Dichloroethene	ND	120
Methylene Chloride	ND	120
trans-1,2-Dichloroethene	ND	120
1,1-Dichloroethane	ND	120
cis-1,2-Dichloroethene	ND	120
Chloroform	ND	120
1,1,1-Trichloroethane	ND	120
Carbon Tetrachloride	ND	120
1,2-Dichloroethane	ND	120
Trichloroethene	ND	120
1,2-Dichloropropane	ND	120
Bromodichloromethane	ND	120
2-Chloroethyl Vinyl Ether	ND	120
cis-1,3-Dichloropropene	ND	120
trans-1,3-Dichloropropene	ND	120
1,1,2-Trichloroethane	ND	120
Tetrachloroethene	ND	120
Dibromochloromethane	ND	120
Chlorobenzene	ND	120
Bromoform	ND	120
1,1,2,2-Tetrachloroethane	ND	120
1,3-Dichlorobenzene	ND	120
1,4-Dichlorobenzene	ND	120
1,2-Dichlorobenzene	ND	120

307188

Data File: /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/held8531.d Page 1
Report Date 10/16/2000 07:26



Method : /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/8021BEHIGH.m
Sample Info : HG287
Lab ID : HG287 Inst ID : VOAGC2.i
Inj Date : 13-OCT-2000 13:29 Dil Factor : 50
Operator : SP Sample Matrix : SOIL
Cpnd Sublist: 601 Sample Type: BLANK

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Bromochloromethane(sur)	12.199	12.197	0.002	218426321	30.646	3830.746

307189

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Instrument ID: VOAGC2 Calibration Date(s): 10/13/00 10/13/00

Calibration Time(s): 0851 1154

LAB FILE ID: RRF1: HELD8525 RRF5: HELD8526 RRF10: HELD8527
RRF20: HELD8528 RRF40: HELD8529

COMPOUND	RRF1	RRF5	RRF10	RRF20	RRF40
Dichlorodifluoromethane	1716572	2073523	2060982	2116122	2120276
Chloromethane	1057120	976587	1036543	1038186	1005081
Vinyl Chloride	3337623	3303833	3411976	3399453	3330062
Bromomethane	2886850	2940635	3213619	3065426	2964616
Chloroethane	5435134	5494073	5451089	5470067	5129877
Trichlorofluoromethane	2989972	4430364	4144411	4137597	4320568
1,1-Dichloroethene	8130527	7602620	8455518	8362762	7906069
Methylene Chloride	11543330	9922664	10618383	10317599	9490932
trans-1,2-Dichloroethene	9455529	8823611	9628980	9380106	8730598
1,1-Dichloroethane	9918858	9272014	9976564	9945622	9210931
cis-1,2-Dichloroethene	10000909	9596436	10372567	10068794	9195378
Chloroform	14070745	12589697	13488252	13147693	11207877
1,1,1-Trichloroethane	11161807	10086935	11071974	10854131	10039468
Carbon Tetrachloride	13096219	11826248	12919261	12438192	11300574
1,2-Dichloroethane	10237853	9153093	9816723	9502599	8684286
Trichloroethene	11320800	10497919	11122250	10885041	9623785
1,2-Dichloropropane	9336503	8714049	9332350	9158654	8313331
Bromodichloromethane	9264259	8708145	9471330	9306191	8623142
2-Chloroethyl Vinyl Ether	3570337	3735964	3876388	3876769	3786310
cis-1,3-Dichloropropene	8493561	7999430	8693953	8528963	7687114
trans-1,3-Dichloropropene	7681974	7425766	8309818	7925835	7258375
1,1,2-Trichloroethane	10960073	10214793	11053000	10527659	9149446
Tetrachloroethene	12473163	11283161	12053098	11578692	9865390
Dibromochloromethane	7317634	7169799	7760678	7634361	7101055
Chlorobenzene	4599430	4420355	4814047	4678622	4465717
Bromoform	4252616	4462093	5033452	5213068	4808256
1,1,2,2-Tetrachloroethane	7505234	7522605	8056691	7912626	7298312
1,3-Dichlorobenzene	5468172	5476460	6048106	6079482	5897614
1,4-Dichlorobenzene	5925423	6066252	6476151	6526534	6148448
1,2-Dichlorobenzene	5690104	5666274	6096660	6166416	5952659
Bromochloromethane(sur)	7437546	6900455	7091664	7239777	6967598

307190

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Instrument ID: VOAGC2 Calibration Date(s): 10/13/00 10/13/00

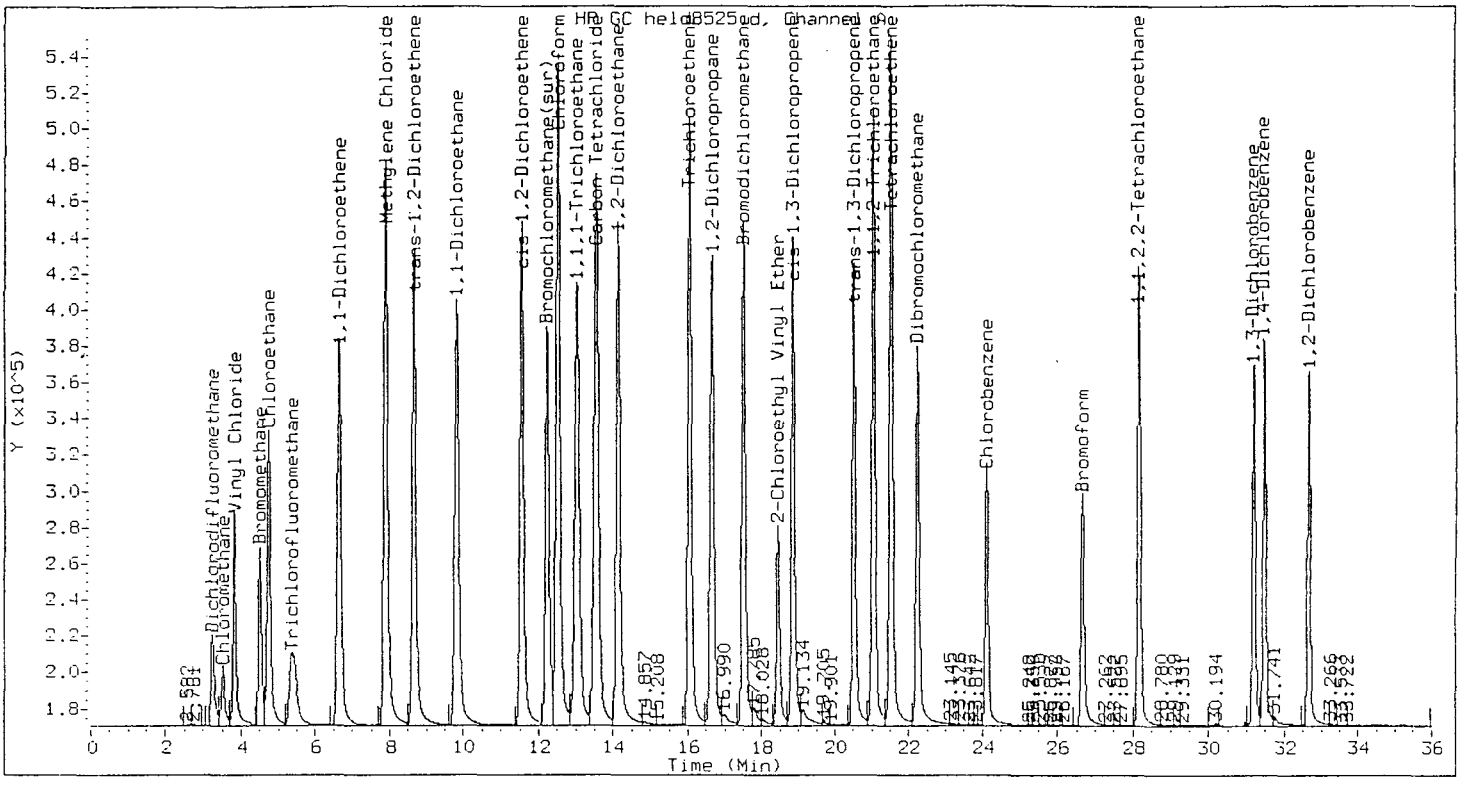
Calibration Time(s): 0851 1154

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Dichlorodifluoromethane	AVRG	2017495	8.4*
Chloromethane	AVRG	1022703	3.1*
Vinyl Chloride	AVRG	3356589	1.4*
Bromomethane	AVRG	3014229	4.3*
Chloroethane	AVRG	5396048	2.8*
Trichlorofluoromethane	AVRG	4004583	14*
1,1-Dichloroethene	AVRG	8091499	4.3*
Methylene Chloride	AVRG	10378582	7.5*
trans-1,2-Dichloroethene	AVRG	9203765	4.4*
1,1-Dichloroethane	AVRG	9664798	4.0*
cis-1,2-Dichloroethene	AVRG	9846817	4.6*
Chloroform	AVRG	12900853	8.4*
1,1,1-Trichloroethane	AVRG	10642863	5.1*
Carbon Tetrachloride	AVRG	12316099	6.1*
1,2-Dichloroethane	AVRG	9478911	6.3*
Trichloroethene	AVRG	10689959	6.3*
1,2-Dichloropropane	AVRG	8970977	5.0*
Bromodichloromethane	AVRG	9074613	4.2*
2-Chloroethyl Vinyl Ether	AVRG	3769154	3.4*
cis-1,3-Dichloropropene	AVRG	8280604	5.1*
trans-1,3-Dichloropropene	AVRG	7720354	5.4*
1,1,2-Trichloroethane	AVRG	10380994	7.4*
Tetrachloroethene	AVRG	11450701	8.7*
Dibromochloromethane	AVRG	7396705	3.9*
Chlorobenzene	AVRG	4595634	3.5*
Bromoform	AVRG	4753897	8.3*
1,1,2,2-Tetrachloroethane	AVRG	7659094	4.1*
1,3-Dichlorobenzene	AVRG	5793967	5.2*
1,4-Dichlorobenzene	AVRG	6228562	4.2*
1,2-Dichlorobenzene	AVRG	5914423	3.9*
Bromochloromethane(sur)	AVRG	7127408	3.0*

* Compounds with required maximum %RSD values.

307191

Data File: /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/held8525.d Page 1
Report Date 10/16/2000 11:00



Method : /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/8021BEHIGH.m
Sample Info : HSTD001
Lab ID : HSTD001
Inj Date : 13-OCT-2000 08:51
Operator : SP
Cpnd Sublist: 601

Inst ID : VOAGC2.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_1

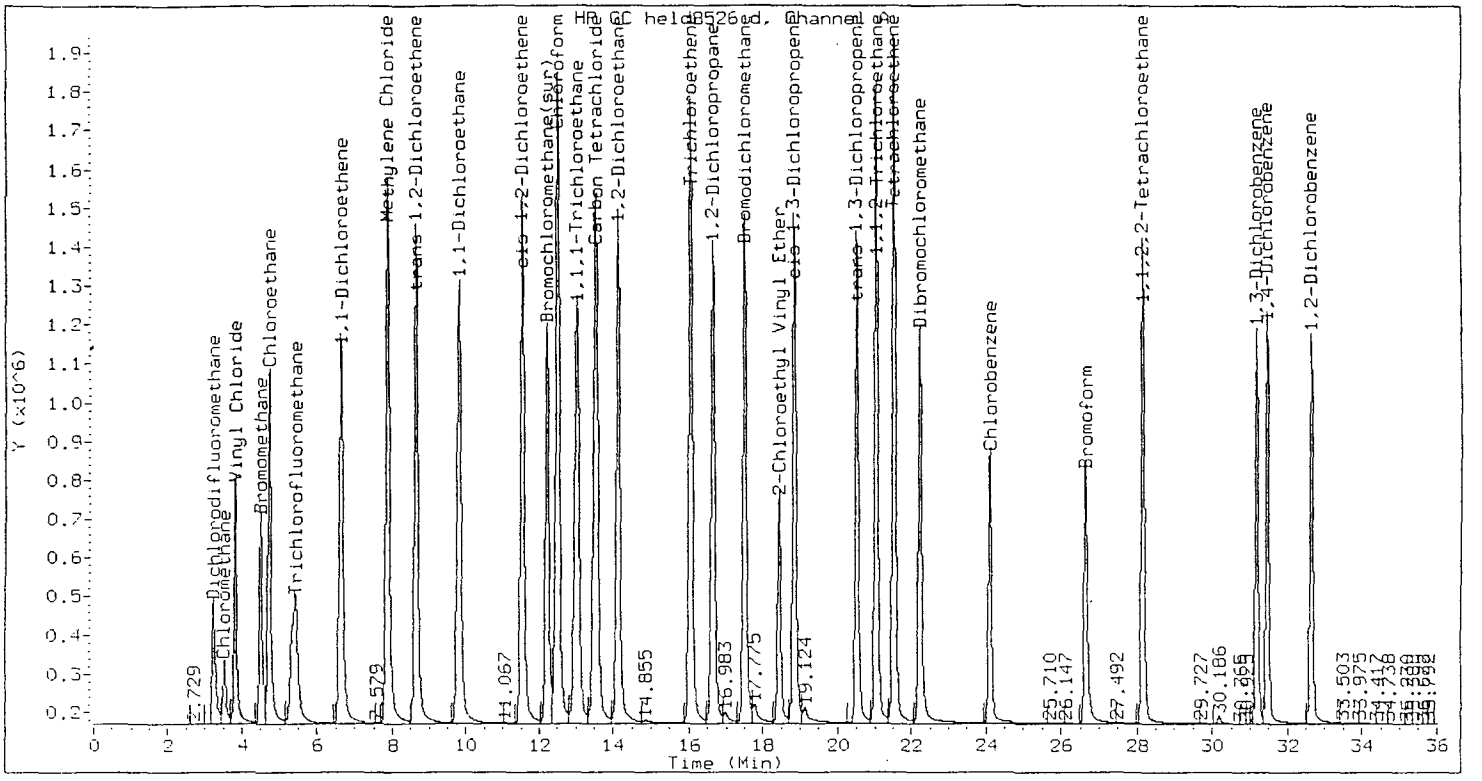
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Dichlorodifluoromethane	3.235	3.218	0.016	1716572	0.851	0.851
Chloromethane	3.515	3.543	0.028	1057120	1.034	1.034
Vinyl Chloride	3.813	3.820	0.006	3337623	0.994	0.994
Bromomethane	4.493	4.496	0.004	2886850	0.958	0.958
Chloroethane	4.731	4.711	0.020	5435134	1.007	1.007
Trichlorofluoromethane	5.355	5.391	0.036	2989972	0.747	0.747
1,1-Dichloroethene	6.633	6.624	0.009	8130527	1.005	1.005
Methylene Chloride	7.881	7.856	0.025	11543330	1.112	1.112
trans-1,2-Dichloroethene	8.648	8.621	0.027	9455529	1.027	1.027

307192

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
1,1-Dichloroethane	9.815	9.790	0.025	9918858	1.026	1.026
cis-1,2-Dichloroethene	11.541	11.516	0.025	10000909	1.016	1.016
Chloroform	12.512	12.488	0.023	14070745	1.091	1.091
1,1,1-Trichloroethane	13.028	13.004	0.023	11161807	1.049	1.049
Carbon Tetrachloride	13.536	13.515	0.021	13096219	1.063	1.063
1,2-Dichloroethane	14.133	14.110	0.023	10237853	1.080	1.080
Trichloroethene	16.049	16.027	0.022	11320800	1.059	1.059
1,2-Dichloropropane	16.647	16.626	0.022	9336503	1.041	1.041
Bromodichloromethane	17.504	17.481	0.023	9264259	1.021	1.021
2-Chloroethyl Vinyl Ether	18.441	18.417	0.024	3570337	0.947	0.947
cis-1,3-Dichloropropene	18.843	18.821	0.022	8493561	1.026	1.026
trans-1,3-Dichloropropene	20.513	20.489	0.023	7681974	0.995	0.995
1,1,2-Trichloroethane	21.041	21.021	0.020	10960073	1.056	1.056
Tetrachloroethene	21.525	21.505	0.020	12473163	1.089	1.089
Dibromochloromethane	22.235	22.213	0.022	7317634	0.989	0.989
Chlorobenzene	24.108	24.086	0.022	4599430	1.001	1.001
Bromoform	26.648	26.623	0.025	4252616	0.895	0.895
1,1,2,2-Tetrachloroethane	28.161	28.137	0.024	7505234	0.980	0.980
1,3-Dichlorobenzene	31.184	31.155	0.028	5468172	0.944	0.944
1,4-Dichlorobenzene	31.468	31.440	0.028	5925423	0.951	0.951
1,2-Dichlorobenzene	32.653	32.623	0.030	5690104	0.962	0.962
Bromochloromethane(sur)	12.224	12.197	0.027	7437546	1.044	1.044

307193

Data File: /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/held8526.d Page 1
Report Date 10/16/2000 07:26



Method : /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/8021BEHIGH.m
Sample Info : HSTD005
Lab ID : HSTD005
Inj Date : 13-OCT-2000 09:44
Operator : SP
Cpnd Sublist: 601

Inst ID : VOAGC2.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_2

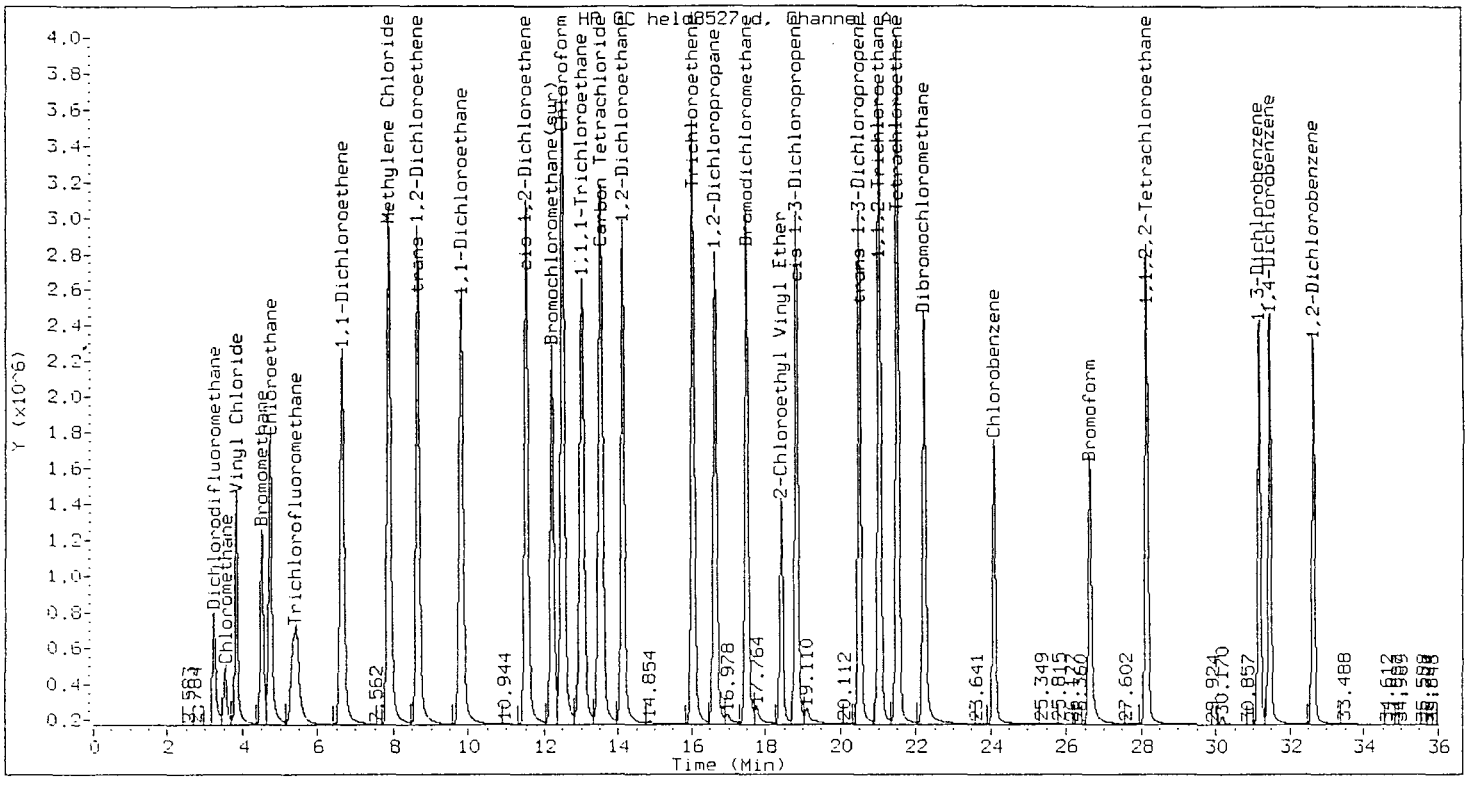
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Dichlorodifluoromethane	3.228	3.218	0.009	10367616	5.139	5.139
Chloromethane	3.532	3.543	0.012	4882933	4.775	4.775
Vinyl Chloride	3.816	3.820	0.003	16519163	4.921	4.921
Bromomethane	4.490	4.496	0.006	14703177	4.878	4.878
Chloroethane	4.717	4.711	0.006	27470365	5.091	5.091
Trichlorofluoromethane	5.412	5.391	0.021	22151822	5.532	5.532
1,1-Dichloroethene	6.629	6.624	0.006	38013100	4.698	4.698
Methylene Chloride	7.869	7.856	0.013	49613321	4.780	4.780
trans-1,2-Dichloroethene	8.635	8.621	0.014	44118053	4.793	4.793

307194

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
1,1-Dichloroethane	9.804	9.790	0.014	46360069	4.797	4.797
cis-1,2-Dichloroethene	11.533	11.516	0.016	47982180	4.873	4.873
Chloroform	12.502	12.488	0.013	62948485	4.879	4.879
1,1,1-Trichloroethane	13.018	13.004	0.014	50434676	4.739	4.739
Carbon Tetrachloride	13.529	13.515	0.014	59131242	4.801	4.801
1,2-Dichloroethane	14.123	14.110	0.013	45765464	4.828	4.828
Trichloroethene	16.039	16.027	0.012	52489597	4.910	4.910
1,2-Dichloropropane	16.638	16.626	0.012	43570244	4.857	4.857
Bromodichloromethane	17.495	17.481	0.014	43540723	4.798	4.798
2-Chloroethyl Vinyl Ether	18.431	18.417	0.014	18679818	4.956	4.956
cis-1,3-Dichloropropene	18.835	18.821	0.014	39997150	4.830	4.830
trans-1,3-Dichloropropene	20.506	20.489	0.017	37128832	4.809	4.809
1,1,2-Trichloroethane	21.037	21.021	0.016	51073966	4.920	4.920
Tetrachloroethene	21.521	21.505	0.016	56415803	4.927	4.927
Dibromochloromethane	22.230	22.213	0.017	35848994	4.847	4.847
Chlorobenzene	24.103	24.086	0.017	22101773	4.809	4.809
Bromoform	26.641	26.623	0.017	22310466	4.693	4.693
1,1,2,2-Tetrachloroethane	28.153	28.137	0.016	37613023	4.911	4.911
1,3-Dichlorobenzene	31.175	31.155	0.019	27382299	4.726	4.726
1,4-Dichlorobenzene	31.459	31.440	0.019	30231259	4.870	4.870
1,2-Dichlorobenzene	32.643	32.623	0.020	28331371	4.790	4.790
Bromochloromethane(sur)	12.213	12.197	0.016	34502273	4.841	4.841

307195

Data File: /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/held8527.d Page 1
Report Date 10/16/2000 07:26



Method : /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/8021BEHIGH.m
Sample Info : HSTD010
Lab ID : HSTD010
Inj Date : 13-OCT-2000 10:27
Operator : SP
Cpnd Sublist: 601

Inst ID : VOAGC2.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

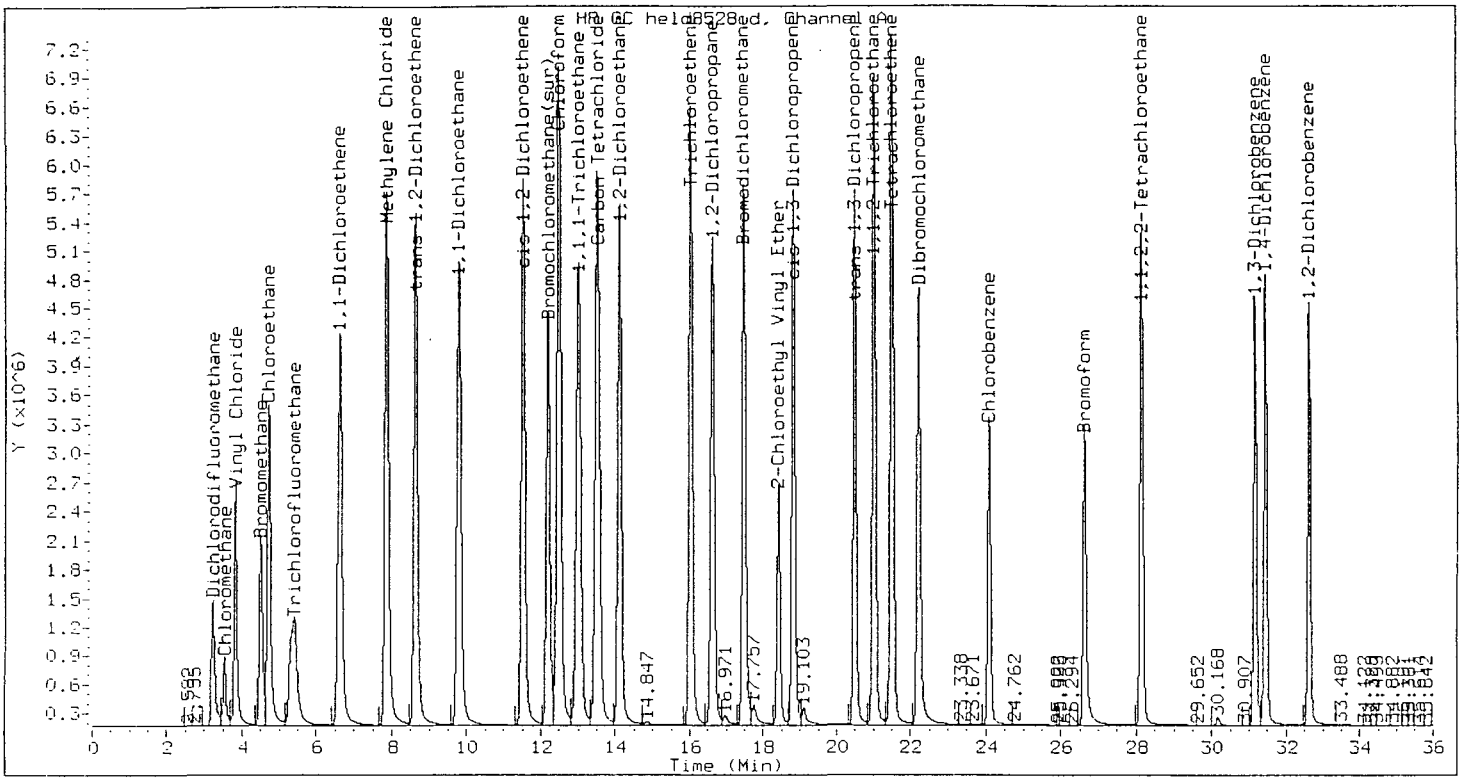
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Dichlorodifluoromethane	3.226	3.218	0.008	20609819	10.216	10.216
Chloromethane	3.542	3.543	0.001	10365429	10.135	10.135
Vinyl Chloride	3.824	3.820	0.004	34119757	10.165	10.165
Bromomethane	4.499	4.496	0.003	32136188	10.661	10.661
Chloroethane	4.726	4.711	0.015	54510891	10.102	10.102
Trichlorofluoromethane	5.409	5.391	0.018	41444114	10.349	10.349
1,1-Dichloroethene	6.635	6.624	0.012	84555182	10.450	10.450
Methylene Chloride	7.871	7.856	0.015	106183826	10.231	10.231
trans-1,2-Dichloroethene	8.635	8.621	0.014	96289801	10.462	10.462

307196

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
1,1-Dichloroethane	9.802	9.790	0.012	99765639	10.323	10.323
cis-1,2-Dichloroethene	11.529	11.516	0.013	103725672	10.534	10.534
Chloroform	12.499	12.488	0.011	134882525	10.455	10.455
1,1,1-Trichloroethane	13.014	13.004	0.009	110719737	10.403	10.403
Carbon Tetrachloride	13.524	13.515	0.008	129192613	10.490	10.490
1,2-Dichloroethane	14.120	14.110	0.010	98167227	10.356	10.356
Trichloroethene	16.033	16.027	0.007	111222495	10.404	10.404
1,2-Dichloropropane	16.632	16.626	0.007	93323502	10.403	10.403
Bromodichloromethane	17.488	17.481	0.007	94713298	10.437	10.437
2-Chloroethyl Vinyl Ether	18.422	18.417	0.005	38763881	10.285	10.285
cis-1,3-Dichloropropene	18.825	18.821	0.004	86939534	10.499	10.499
trans-1,3-Dichloropropene	20.495	20.489	0.006	83098175	10.764	10.764
1,1,2-Trichloroethane	21.025	21.021	0.004	110530001	10.647	10.647
Tetrachloroethene	21.508	21.505	0.003	120530976	10.526	10.526
Dibromochloromethane	22.216	22.213	0.002	77606779	10.492	10.492
Chlorobenzene	24.088	24.086	0.002	48140471	10.475	10.475
Bromoform	26.625	26.623	0.002	50334521	10.588	10.588
1,1,2,2-Tetrachloroethane	28.139	28.137	0.001	80566912	10.519	10.519
1,3-Dichlorobenzene	31.157	31.155	0.002	60481060	10.439	10.439
1,4-Dichlorobenzene	31.442	31.440	0.002	64761512	10.398	10.398
1,2-Dichlorobenzene	32.624	32.623	0.001	60966604	10.308	10.308
Bromochloromethane(sur)	12.209	12.197	0.012	70916641	9.950	9.950

307197

Data File: /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/held8528.d Page 1
Report Date 10/16/2000 07:26



Method : /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/8021BEHIGH.m
Sample Info : HSTD020
Lab ID : HSTD020
Inj Date : 13-OCT-2000 11:11
Operator : SP
Cpnd Sublist: 601

Inst ID : VOAGC2.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_4

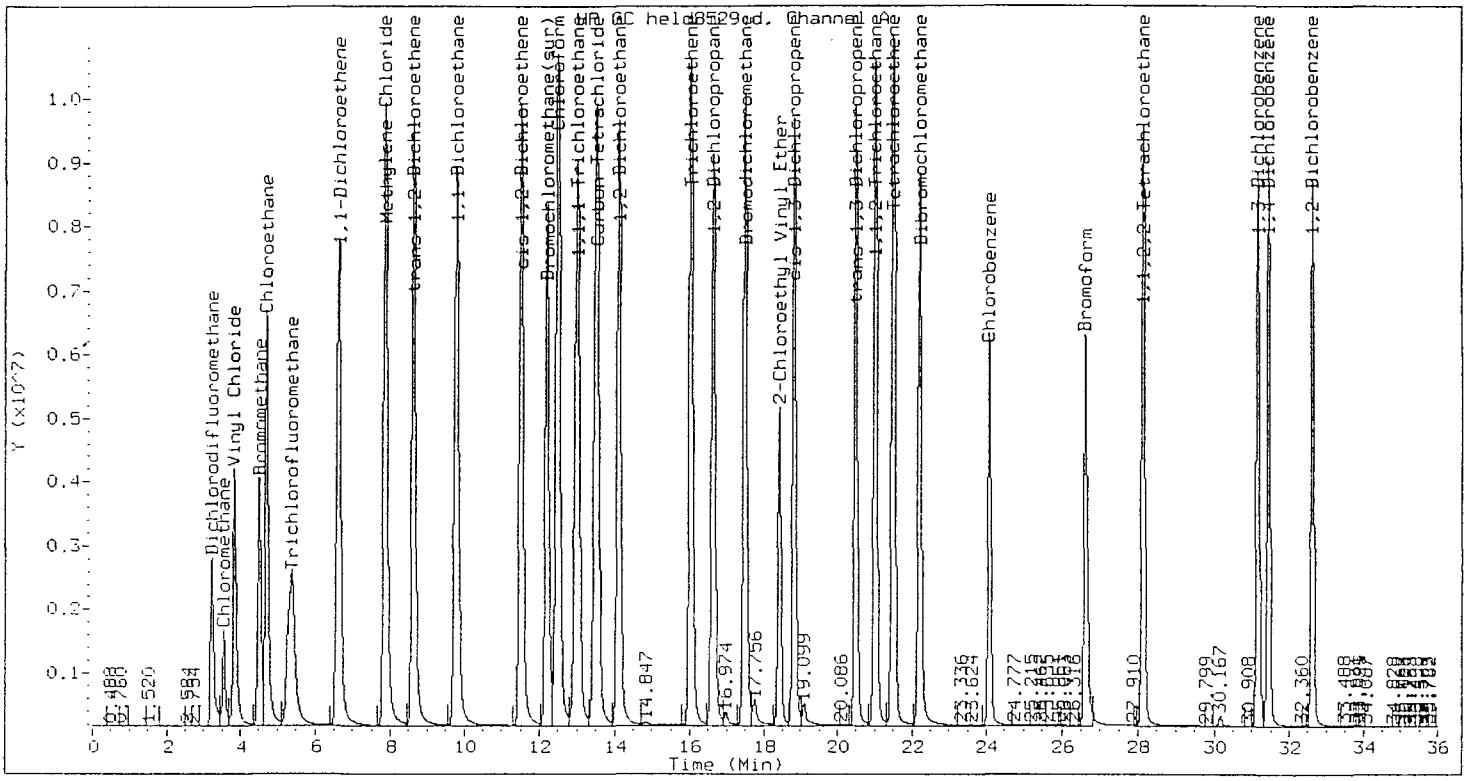
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Dichlorodifluoromethane	3.218	3.218	0.000	42322433	20.978	20.978
Chloromethane	3.543	3.543	0.000	20763710	20.303	20.303
Vinyl Chloride	3.820	3.820	0.000	67989067	20.255	20.255
Bromomethane	4.496	4.496	0.000	61308519	20.340	20.340
Chloroethane	4.711	4.711	0.000	109401344	20.274	20.274
Trichlorofluoromethane	5.391	5.391	0.000	82751949	20.664	20.664
1,1-Dichloroethene	6.624	6.624	0.000	167255239	20.670	20.670
Methylene Chloride	7.856	7.856	0.000	206351977	19.882	19.882
trans-1,2-Dichloroethene	8.621	8.621	0.000	187602124	20.383	20.383

307198

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
1,1-Dichloroethane	9.790	9.790	0.000	198912432	20.581	20.581
cis-1,2-Dichloroethene	11.516	11.516	0.000	201375887	20.451	20.451
Chloroform	12.488	12.488	0.000	262953861	20.383	20.383
1,1,1-Trichloroethane	13.004	13.004	0.000	217082624	20.397	20.397
Carbon Tetrachloride	13.515	13.515	0.000	248763839	20.198	20.198
1,2-Dichloroethane	14.110	14.110	0.000	190051986	20.050	20.050
Trichloroethene	16.027	16.027	0.000	217700820	20.365	20.365
1,2-Dichloropropane	16.626	16.626	0.000	183173083	20.418	20.418
Bromodichloromethane	17.481	17.481	0.000	186123827	20.510	20.510
2-Chloroethyl Vinyl Ether	18.417	18.417	0.000	77535383	20.571	20.571
cis-1,3-Dichloropropene	18.821	18.821	0.000	170579258	20.600	20.600
trans-1,3-Dichloropropene	20.489	20.489	0.000	158516706	20.532	20.532
1,1,2-Trichloroethane	21.021	21.021	0.000	210553180	20.283	20.283
Tetrachloroethene	21.505	21.505	0.000	231573851	20.224	20.224
Dibromochloromethane	22.213	22.213	0.000	152687212	20.643	20.643
Chlorobenzene	24.086	24.086	0.000	93572438	20.361	20.361
Bromoform	26.623	26.623	0.000	104261362	21.932	21.932
1,1,2,2-Tetrachloroethane	28.137	28.137	0.000	158252524	20.662	20.662
1,3-Dichlorobenzene	31.155	31.155	0.000	121589645	20.986	20.986
1,4-Dichlorobenzene	31.440	31.440	0.000	130530678	20.957	20.957
1,2-Dichlorobenzene	32.623	32.623	0.000	123328323	20.852	20.852
Bromochloromethane(sur)	12.197	12.197	0.000	144795548	20.315	20.315

307199

Data File: /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/held8529.d Page 1
Report Date 10/16/2000 07:26



Method : /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/8021BEHIGH.m
Sample Info : HSTD040
Lab ID : HSTD040
Inj Date : 13-OCT-2000 11:54
Operator : SP
Cpnd Sublist: 601

Inst ID : VOAGC2.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_5

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Dichlorodifluoromethane	3.219	3.218	0.001	84811044	42.038	42.038
Chloromethane	3.553	3.543	0.010	40203242	39.311	39.311
Vinyl Chloride	3.833	3.820	0.014	133202488	39.684	39.684
Bromomethane	4.509	4.496	0.013	118584663	39.342	39.342
Chloroethane	4.706	4.711	0.006	205195097	38.027	38.027
Trichlorofluoromethane	5.383	5.391	0.008	172822742	43.156	43.156
1,1-Dichloroethene	6.625	6.624	0.002	316242772	39.083	39.083
Methylene Chloride	7.862	7.856	0.006	379637276	36.579	36.579
trans-1,2-Dichloroethene	8.624	8.621	0.003	349223928	37.944	37.944

307200

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
1,1-Dichloroethane	9.793	9.790	0.003	368437252	38.122	38.122
cis-1,2-Dichloroethene	11.519	11.516	0.003	367815117	37.354	37.354
Chloroform	12.493	12.488	0.005	448315095	34.751	34.751
1,1,1-Trichloroethane	13.003	13.004	0.001	401578707	37.732	37.732
Carbon Tetrachloride	13.516	13.515	0.001	452022943	36.702	36.702
1,2-Dichloroethane	14.112	14.110	0.002	347371436	36.647	36.647
Trichloroethene	16.026	16.027	0.000	384951417	36.011	36.011
1,2-Dichloropropane	16.627	16.626	0.001	332533238	37.068	37.068
Bromodichloromethane	17.482	17.481	0.001	344925683	38.010	38.010
2-Chloroethyl Vinyl Ether	18.415	18.417	0.002	151452407	40.182	40.182
cis-1,3-Dichloropropene	18.820	18.821	0.001	307484565	37.133	37.133
trans-1,3-Dichloropropene	20.486	20.489	0.003	290335007	37.606	37.606
1,1,2-Trichloroethane	21.019	21.021	0.002	365977820	35.255	35.255
Tetrachloroethene	21.503	21.505	0.002	394615613	34.462	34.462
Dibromochloromethane	22.210	22.213	0.003	284042185	38.401	38.401
Chlorobenzene	24.083	24.086	0.003	178628679	38.869	38.869
Bromoform	26.620	26.623	0.003	192330242	40.457	40.457
1,1,2,2-Tetrachloroethane	28.134	28.137	0.003	291932502	38.116	38.116
1,3-Dichlorobenzene	31.154	31.155	0.001	235904555	40.716	40.716
1,4-Dichlorobenzene	31.440	31.440	0.000	245937940	39.486	39.486
1,2-Dichlorobenzene	32.623	32.623	0.000	238106359	40.259	40.259
Bromochloromethane(sur)	12.200	12.197	0.002	278703911	39.103	39.103

307201

VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Matrix: SOIL Level: HIGH Lab Job No: E510

	LAB SAMPLE NO.	SMC1 #	SMC2 #	OTHER	TOT OUT
01	HG287	102			0
02	234142	106			0
03	234144	93			0
04	234145	94			0
05	234145MS	88			0
06	234145MSD	86			0
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

QC LIMITS

SMC1 = Bromochloromethane(sur (70-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

307202

VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Matrix: WATER Level: MED Lab Job No: E510

	LAB SAMPLE NO.	SMC1 #	SMC2 #	OTHER	TOT OUT
01	234143	101			0
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

		QC LIMITS
SMC1	= Bromochloromethane(sur	(70-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
METHOD 8021

Matrix: SOIL

Level: HIGH

Matrix Spike - Lab Sample No.: 234145

MS Sample from Lab Job No: E510

QA Batch: 7101

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Chloromethane	2800	0.00	2200	79	70-130
Vinyl Chloride	2800	0.00	2400	86	70-130
Bromomethane	2800	0.00	3000	107	70-130
Chloroethane	2800	0.00	2500	89	70-130
Trichlorofluoromethane	2800	0.00	2300	82	70-130
1,1-Dichloroethene	2800	0.00	2800	100	70-130
Methylene Chloride	2800	0.00	2600	93	70-130
trans-1,2-Dichloroethene	2800	0.00	2800	100	70-130
1,1-Dichloroethane	2800	0.00	2800	100	70-130
Chloroform	2800	0.00	2800	100	70-130
1,1,1-Trichloroethane	2800	0.00	2900	104	70-130
Carbon Tetrachloride	2800	0.00	2900	104	70-130
1,2-Dichloroethane	2800	0.00	2800	100	70-130
Trichloroethene	2800	210	3300	110	70-130
1,2-Dichloropropane	2800	0.00	3000	107	70-130
Bromodichloromethane	2800	0.00	3000	107	70-130
2-Chloroethyl Vinyl Ethe	2800	0.00	2900	104	70-130
cis-1,3-Dichloropropene	2800	0.00	2900	104	70-130
trans-1,3-Dichloropropen	2800	0.00	2900	104	70-130
1,1,2-Trichloroethane	2800	0.00	2800	100	70-130
Tetrachloroethene	2800	270	3200	105	70-130
Dibromochloromethane	2800	0.00	3000	107	70-130
Chlorobenzene	2800	0.00	3100	111	70-130
Bromoform	2800	0.00	3000	107	70-130
1,1,2,2-Tetrachloroethan	2800	0.00	2600	93	70-130
1,3-Dichlorobenzene	2800	0.00	3000	107	70-130
1,4-Dichlorobenzene	2800	0.00	3000	107	70-130
1,2-Dichlorobenzene	2800	0.00	2900	104	70-130

307204

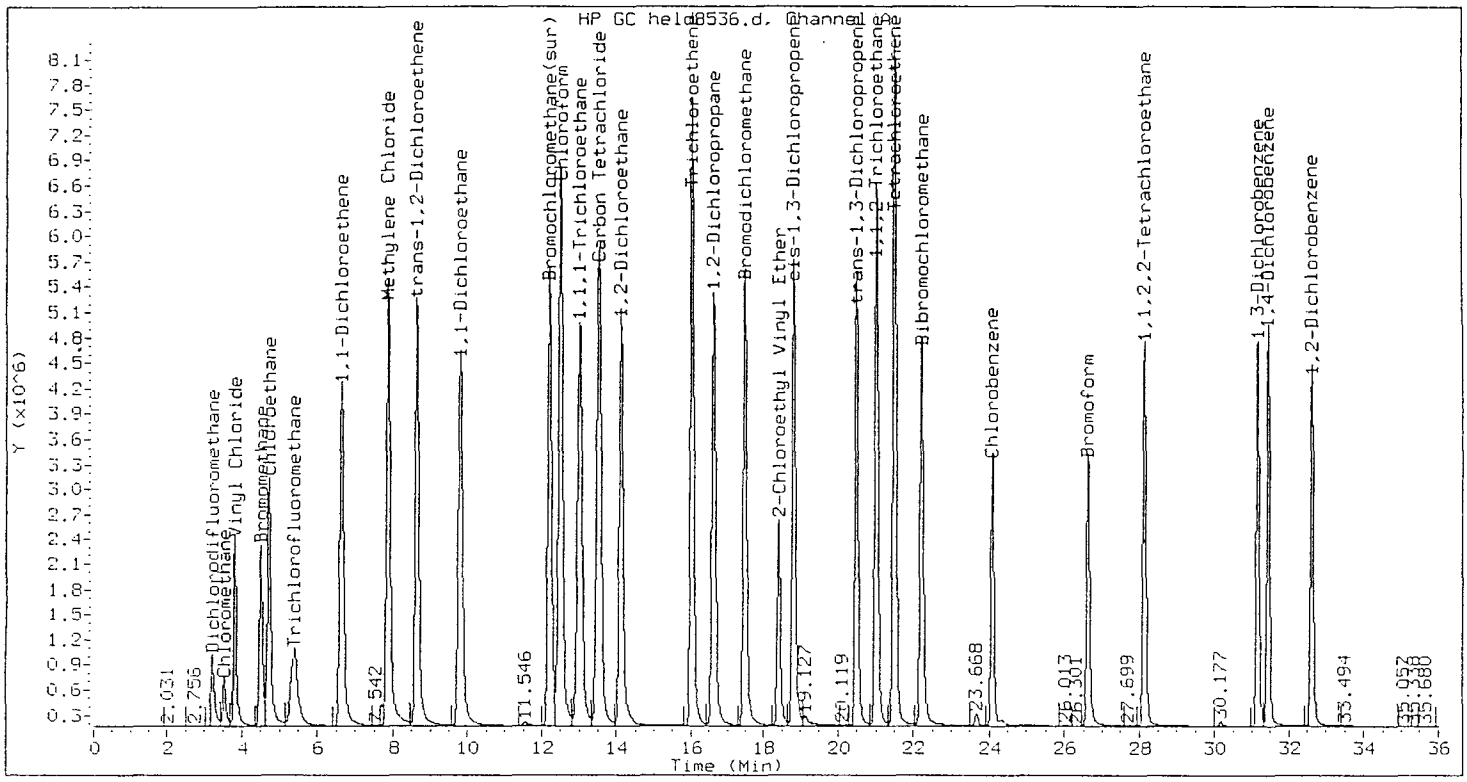
Compound	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chloromethane	2800	2200	79	0	40	70-130
Vinyl Chloride	2800	2400	86	0	40	70-130
Bromomethane	2800	2800	100	7	40	70-130
Chloroethane	2800	2800	100	11	40	70-130
Trichlorofluoromethane	2800	2200	79	4	40	70-130
1,1-Dichloroethene	2800	2800	100	0	40	70-130
Methylene Chloride	2800	2600	93	0	40	70-130
trans-1,2-Dichloroethene	2800	2800	100	0	40	70-130
1,1-Dichloroethane	2800	2700	96	4	40	70-130
Chloroform	2800	2800	100	0	40	70-130
1,1,1-Trichloroethane	2800	2800	100	4	40	70-130
Carbon Tetrachloride	2800	2800	100	4	40	70-130
1,2-Dichloroethane	2800	2600	93	7	40	70-130
Trichloroethene	2800	3200	107	3	40	70-130
1,2-Dichloropropane	2800	3000	107	0	40	70-130
Bromodichloromethane	2800	3000	107	0	40	70-130
2-Chloroethyl Vinyl Ethe	2800	2900	104	0	40	70-130
cis-1,3-Dichloropropene	2800	2900	104	0	40	70-130
trans-1,3-Dichloropropen	2800	2900	104	0	40	70-130
1,1,2-Trichloroethane	2800	2800	100	0	40	70-130
Tetrachloroethene	2800	3100	101	3	40	70-130
Dibromochloromethane	2800	3000	107	0	40	70-130
Chlorobenzene	2800	2800	100	10	40	70-130
Bromoform	2800	3000	107	0	40	70-130
1,1,2,2-Tetrachloroethan	2800	2500	89	4	40	70-130
1,3-Dichlorobenzene	2800	2900	104	3	40	70-130
1,4-Dichlorobenzene	2800	2900	104	3	40	70-130
1,2-Dichlorobenzene	2800	2800	100	4	40	70-130

Column to be used to flag recovery and RPD values with an asterik
* Values outside of QC limits
RPD: 0 out of 28 outside limits
Spike Recovery: 0 out of 56 outside limits

COMMENTS: _____

307205

Data File: /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/held8536.d Page 1
Report Date 10/16/2000 07:26



Method : /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/8021BEHIGH.m
Sample Info : 234145MS;;50
Lab ID : 234145MS
Inj Date : 13-OCT-2000 17:05
Operator : SP
Cpnd Sublist: 601

Inst ID : VOAGC2.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: MS

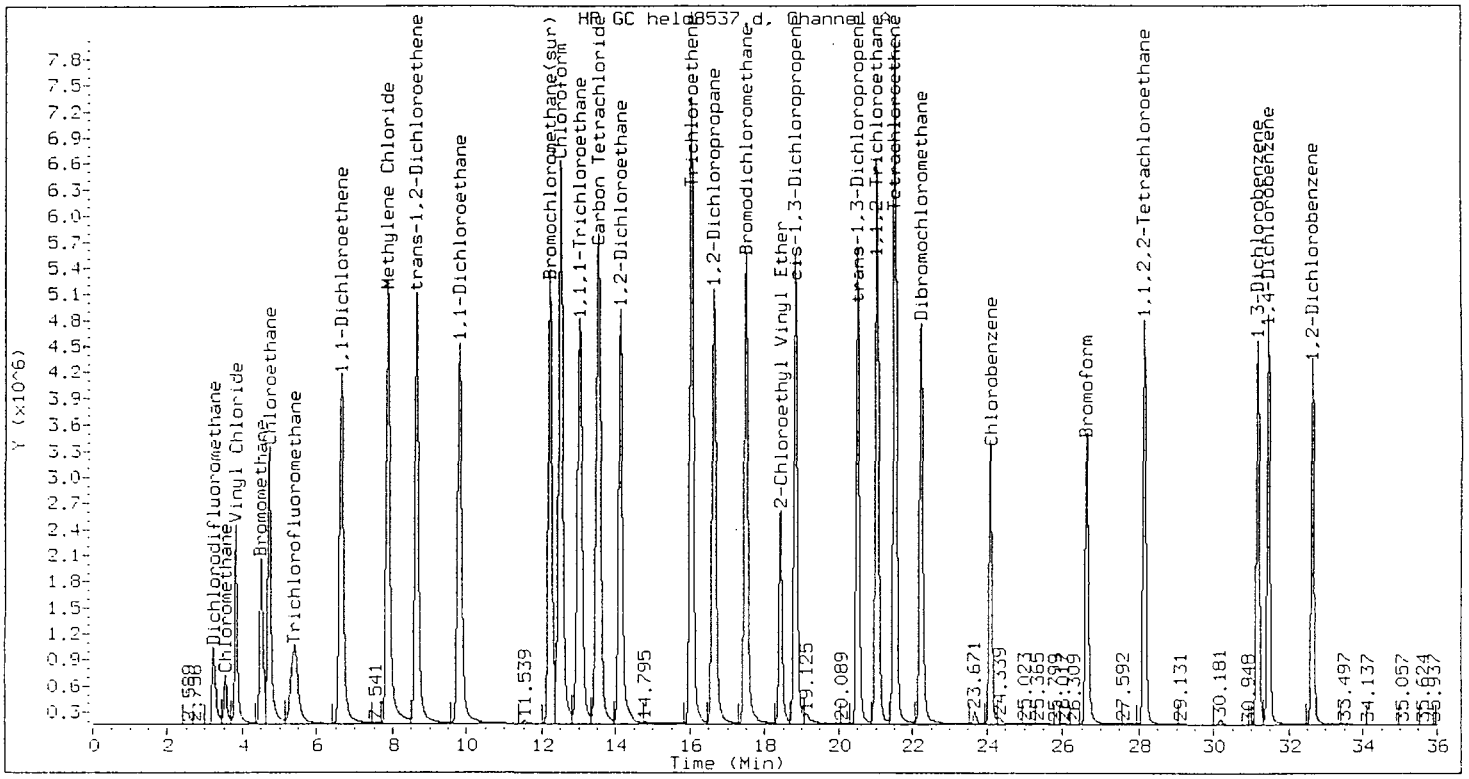
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Dichlorodifluoromethane	3.228	3.218	0.010	27490642	13.626	1913.954
Chloromethane	3.548	3.543	0.005	15995005	15.640	2196.817
Vinyl Chloride	3.825	3.820	0.006	58067286	17.299	2429.922
Bromomethane	4.511	4.496	0.014	65204028	21.632	3038.486
Chloroethane	4.728	4.711	0.017	97937094	18.150	2549.356
Trichlorofluoromethane	5.406	5.391	0.015	64437170	16.091	2260.155
1,1-Dichloroethene	6.647	6.624	0.023	162447909	20.076	2819.968
Methylene Chloride	7.878	7.856	0.023	194085010	18.701	2626.716
trans-1,2-Dichloroethene	8.646	8.621	0.026	183672623	19.956	2803.096

307206

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
1,1-Dichloroethane	9.814	9.790	0.024	189286000	19.585	2750.963
Chloroform	12.510	12.488	0.022	259228853	20.094	2822.435
1,1,1-Trichloroethane	13.025	13.004	0.021	222284706	20.886	2933.663
Carbon Tetrachloride	13.535	13.515	0.020	256053650	20.790	2920.229
1,2-Dichloroethane	14.130	14.110	0.020	188275200	19.863	2789.933
Trichloroethene	16.041	16.027	0.015	253410277	23.705	3329.716
1,2-Dichloropropane	16.640	16.626	0.015	193957244	21.621	3036.864
Bromodichloromethane	17.495	17.481	0.013	191088840	21.058	2957.783
2-Chloroethyl Vinyl Ether	18.427	18.417	0.009	77931557	20.676	2904.214
cis-1,3-Dichloropropene	18.831	18.821	0.010	171805854	20.748	2914.305
trans-1,3-Dichloropropene	20.497	20.489	0.008	160203237	20.751	2914.695
1,1,2-Trichloroethane	21.028	21.021	0.007	206251116	19.868	2790.721
Tetrachloroethene	21.512	21.505	0.007	263915217	23.048	3237.363
Dibromochloromethane	22.221	22.213	0.008	157174607	21.249	2984.717
Chlorobenzene	24.092	24.086	0.006	101341713	22.052	3097.432
Bromoform	26.631	26.623	0.007	102986994	21.664	3042.928
1,1,2,2-Tetrachloroethane	28.144	28.137	0.007	139085818	18.160	2550.730
1,3-Dichlorobenzene	31.166	31.155	0.010	123945383	21.392	3004.785
1,4-Dichlorobenzene	31.451	31.440	0.011	133054817	21.362	3000.557
1,2-Dichlorobenzene	32.634	32.623	0.011	121359158	20.519	2882.168
Bromochloromethane(sur)	12.221	12.197	0.024	188869023	26.499	3722.101

307207

Data File: /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/held8537.d Page 1
Report Date 10/16/2000 07:26



Method : /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/8021BEHIGH.m
Sample Info : 234145MSD;;50
Lab ID : 234145MSD
Inj Date : 13-OCT-2000 17:48
Operator : SP
Cpnd Sublist: 601

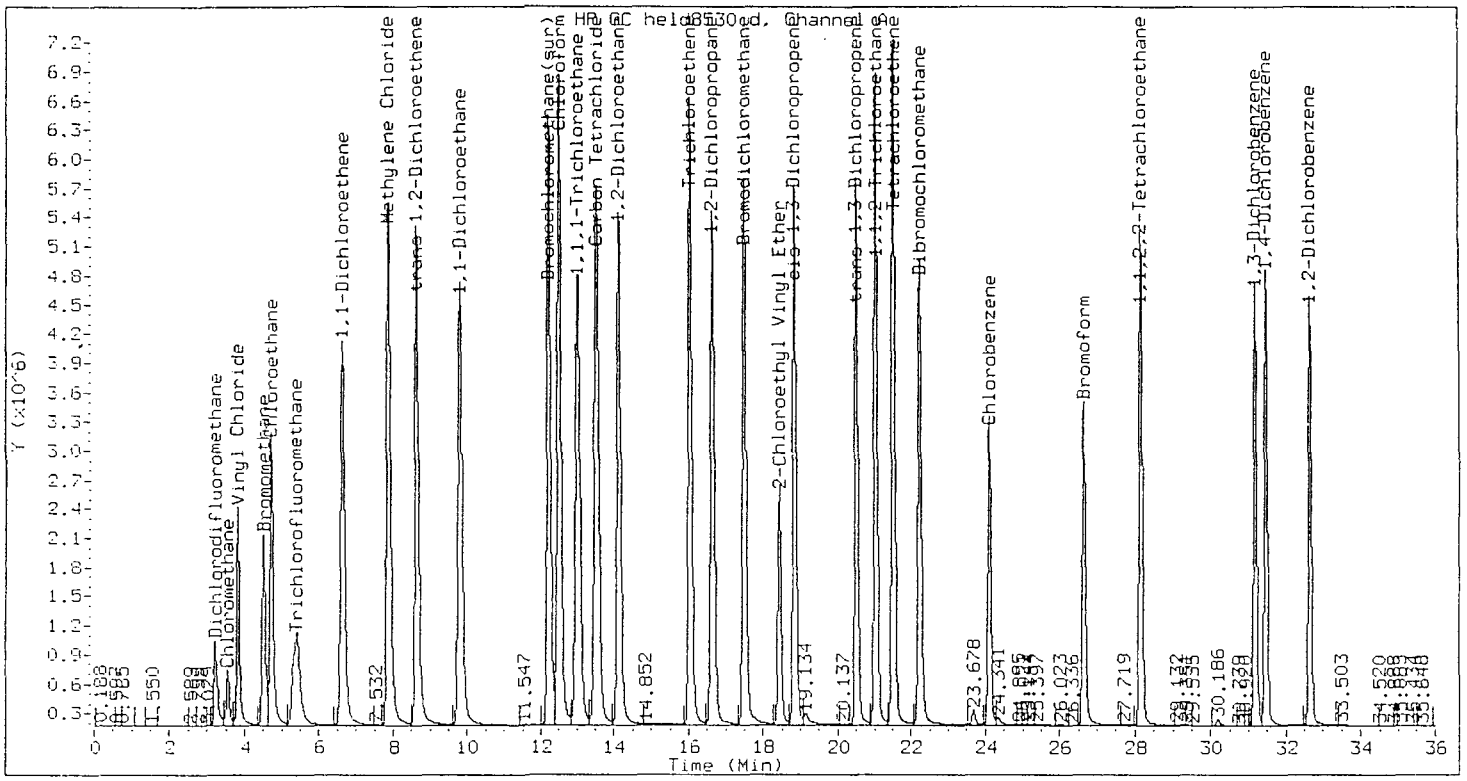
Inst ID : VOAGC2.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: MSD

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Dichlorodifluoromethane	3.222	3.218	0.004	28780378	14.265	2003.748
Chloromethane	3.546	3.543	0.003	15846222	15.494	2176.382
Vinyl Chloride	3.822	3.820	0.003	58071939	17.301	2430.117
Bromomethane	4.505	4.496	0.009	60055118	19.924	2798.548
Chloroethane	4.721	4.711	0.010	106014335	19.647	2759.611
Trichlorofluoromethane	5.407	5.391	0.016	64238756	16.041	2253.196
1,1-Dichloroethene	6.646	6.624	0.022	160984296	19.895	2794.561
Methylene Chloride	7.874	7.856	0.018	195455719	18.833	2645.266
trans-1,2-Dichloroethene	8.640	8.621	0.019	180547118	19.617	2755.396

307208

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
1,1-Dichloroethane	9.808	9.790	0.018	184575488	19.098	2682.504
Chloroform	12.504	12.488	0.016	258355623	20.026	2812.927
1,1,1-Trichloroethane	13.018	13.004	0.013	216691603	20.360	2859.846
Carbon Tetrachloride	13.529	13.515	0.014	250495500	20.339	2856.839
1,2-Dichloroethane	14.122	14.110	0.012	179492885	18.936	2659.793
Trichloroethene	16.037	16.027	0.010	246003371	23.013	3232.392
1,2-Dichloropropane	16.635	16.626	0.010	190861095	21.275	2988.386
Bromodichloromethane	17.492	17.481	0.011	191239768	21.074	2960.119
2-Chloroethyl Vinyl Ether	18.423	18.417	0.006	77340287	20.519	2882.179
cis-1,3-Dichloropropene	18.830	18.821	0.009	170910922	20.640	2899.124
trans-1,3-Dichloropropene	20.498	20.489	0.009	159705724	20.686	2905.644
1,1,2-Trichloroethane	21.030	21.021	0.009	204915506	19.739	2772.649
Tetrachloroethene	21.516	21.505	0.011	256676247	22.416	3148.565
Dibromochloromethane	22.225	22.213	0.012	156758767	21.193	2976.820
Chlorobenzene	24.096	24.086	0.010	91023897	19.807	2782.076
Bromoform	26.635	26.623	0.011	102694657	21.602	3034.290
1,1,2,2-Tetrachloroethane	28.150	28.137	0.013	136359206	17.804	2500.726
1,3-Dichlorobenzene	31.169	31.155	0.013	120646472	20.823	2924.810
1,4-Dichlorobenzene	31.453	31.440	0.013	129634297	20.813	2923.420
1,2-Dichlorobenzene	32.635	32.623	0.012	117095029	19.798	2780.899
Bromochloromethane(sur)	12.215	12.197	0.018	184524468	25.889	3636.482

307209



Method : /chem/VOAGC2.i/8021EHIGH/10-13-00/13OCT00.b/8021BEHIGH.m
Sample Info : 7101BS
Lab ID : 7101BS
Inj Date : 13-OCT-2000 12:38
Operator : SP
Cpnd Sublist: 601

Inst ID : VOAGC2.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: METHSPIKE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
Dichlorodifluoromethane	3.222	3.218	0.004	28315020	14.035	1754.343
Chloromethane	3.547	3.543	0.004	16178930	15.820	1977.471
Vinyl Chloride	3.825	3.820	0.005	57839979	17.232	2153.971
Bromomethane	4.506	4.496	0.010	60876034	20.196	2524.527
Chloroethane	4.719	4.711	0.007	96924801	17.962	2245.273
Trichlorofluoromethane	5.407	5.391	0.016	68874411	17.199	2149.862
1,1-Dichlcroethene	6.645	6.624	0.021	157940176	19.519	2439.909
Methylene Chloride	7.878	7.856	0.022	202200085	19.482	2435.305
trans-1,2-Dichloroethene	8.641	8.621	0.021	179980552	19.555	2444.388

307210

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
1,1-Dichloroethane	9.814	9.790	0.024	188348033	19.488	2436.006
Chloroform	12.514	12.488	0.026	252173820	19.547	2443.383
1,1,1-Trichloroethane	13.027	13.004	0.022	208912585	19.629	2453.670
Carbon Tetrachloride	13.537	13.515	0.021	241296044	19.592	2448.990
1,2-Dichloroethane	14.134	14.110	0.024	185821340	19.604	2450.457
Trichloroethene	16.046	16.027	0.019	213492818	19.971	2496.418
1,2-Dichloropropane	16.646	16.626	0.021	190089198	21.189	2648.669
Bromodichloromethane	17.500	17.481	0.019	190429587	20.985	2623.109
2-Chloroethyl Vinyl Ether	18.435	18.417	0.018	74729516	19.827	2478.326
cis-1,3-Dichloropropene	18.839	18.821	0.018	170157015	20.549	2568.608
trans-1,3-Dichloropropene	20.505	20.489	0.016	158806897	20.570	2571.237
1,1,2-Trichloroethane	21.037	21.021	0.015	206091877	19.853	2481.601
Tetrachloroethene	21.520	21.505	0.015	223159040	19.489	2436.085
Dibromochloromethane	22.229	22.213	0.016	156225131	21.121	2640.114
Chlorobenzene	24.102	24.086	0.016	89202367	19.410	2426.280
Bromoform	26.640	26.623	0.017	102363718	21.533	2691.574
1,1,2,2-Tetrachloroethane	28.154	28.137	0.017	152381315	19.895	2486.934
1,3-Dichlorobenzene	31.174	31.155	0.018	121218859	20.922	2615.196
1,4-Dichlorobenzene	31.459	31.440	0.019	129954194	20.864	2608.030
1,2-Dichlorobenzene	32.640	32.623	0.017	122435530	20.701	2587.648
Bromochloromethane(sur)	12.223	12.197	0.026	208640842	29.273	3659.129

307211

PROJECT 8021B GC-2

Notebook No. ____

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DATE	DATA File Job #	A/S	SAMPLE	Sublist	JOB	CA	LOB	PH	W/V	D.F.	STD LOT #	COMMENTS
10-13-00	HELD 85284	1	HSTD 001	601							SYAR	NG
	SP 10-13 85285	2	001								Vol 565	G
	HELD 8526	3	005								std	G
	8527	4	010								Vol 566	G
	8528	5	020								562	G
	8529	6	040								563	G
	8530	7	7101 BS								BS	G
	8531	8	HG287								Vol 556	G
	8532	9	234142 MB		E510	7101	HG		10/25ml	50x	557	G FB
	8533	10	234144		E510		287		10.6/25ml			G
	8534	11	234145						10.8/25ml			G
	8535	12	234143						50ml	St		G FB
	8536	13	234145MS						10.8/25ml	50x		G
	8537	14	234145MSD									G
	8538	15	HSTD020A									NG
	8539	16	HSTD020A									G

SP 10-16-00

Shailem Patel
Signed

10/13/00
Date

Read and Understood By

Signed

Date

Continued on Page

307212