SDMS Document
98456

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 11
LABORATORY QA/QC DATA PACKAGE
10/16/98 - JOB #I280

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

305841

MAY 2004

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

ENVIROTECH RESEARCH, INC.

777 New Durham Road
Edison, New Jersey 08817
Tel: (732) 549-3900
Fax: (732) 549-3679
www.enviro-lab.com

November 2, 1998

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

RECEIVED
NOV 1 1998
The Whitman Companies, Inc.

Attention: Mr. Michael Metlitz

Re: Job No. I280 - Klockner & Klockner

Dear Mr. Metlitz:

Enclosed are the results you requested for the following sample(s) received at our laboratory on October 16, 1998:

Lab No.	Client ID	Analysis Required
90838	DSSR-1	TCL VOA+10, PCBs, TAL Metals, Ignitability, Reactivity, Corrosivity
90839	DSRW-1	TCL VOA+10, PCBs, TAL Metals, Ignitability, Reactivity, Corrosivity
90840	Trip_Blank	TCL VOA+10

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

Very truly yours,

Michael J. Urban
Laboratory Manager

305842

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ENVIROTECH RESEARCH, INC.

Client ID: DSSR-1
Site: Klockner & Klockner

Lab Sample No: 90838
Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Date Analyzed: 10/27/98
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v5872.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 5.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	4.6
Bromomethane	ND	1.4
Vinyl Chloride	ND	2.0
Chloroethane	ND	5.2
Methylene Chloride	ND	5.2
Acetone	46	25
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.8
1,1-Dichloroethane	ND	1.6
trans-1,2-Dichloroethene	ND	1.5
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	1.0
1,2-Dichloroethane	ND	1.1
2-Butanone	ND	25
1,1,1-Trichloroethane	ND	1.0
Carbon Tetrachloride	ND	0.8
Bromodichloromethane	ND	0.9
1,2-Dichloropropane	ND	2.3
cis-1,3-Dichloropropene	ND	1.6
Trichloroethene	ND	2.0
Dibromochloromethane	ND	1.2
1,1,2-Trichloroethane	ND	2.2
Benzene	ND	1.2
trans-1,3-Dichloropropene	ND	1.6
Bromoform	ND	1.5
4-Methyl-2-Pentanone	ND	25
2-Hexanone	ND	25
Tetrachloroethene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	1.6
Toluene	ND	0.9
Chlorobenzene	ND	0.7
Ethylbenzene	ND	1.2
Styrene	ND	5.0
Xylene (Total)	ND	5.0

305845

ENVIROTECH RESEARCH, INC.

Client ID: DSSR-1
Site: Klockner & Klockner

Lab Sample No: 90838
Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Date Analyzed: 10/27/98
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v5872.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 5.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
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TOTAL ESTIMATED CONCENTRATION 0.0

305846

ENVIROTECH RESEARCH, INC.

Client ID: **DSSR-1**
Site: Klockner & Klockner

Lab Sample ID: **90838**
Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Date Extracted: 10/21/98
Date Analyzed: 10/27/98
GC Column: DB-608
Instrument ID: PESTGC6.i

Matrix: WATER
Sample Volume: 990 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Lab File ID: nr004375.d

ORGANOCHLORINE PCBs - GC/ECD
METHOD 608

Parameter	Analytical Results Units: ug/l	Method Detection Limit Units: ug/l
Aroclor-1016	ND	0.30
Aroclor-1221	ND	0.30
Aroclor-1232	ND	0.40
Aroclor-1242	ND	0.20
Aroclor-1248	ND	0.30
Aroclor-1254	ND	0.40
Aroclor-1260	ND	0.20
Aroclor-1262	ND	0.20
Aroclor-1268	ND	0.20

305847

ENVIROTECH RESEARCH, INC.

Client ID: **DSSR-1**
Site: **Klockner & Klockner**

Lab Sample No: 90838
Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Aluminum	10200	58.2	P
Antimony	ND	4.6	P
Arsenic	6.0	3.8	P
Barium	606	1.4	P
Beryllium	4.5	0.20	P
Cadmium	17.5	0.40	P
Calcium	94100	42.2	P
Chromium	365	1.0	P
Cobalt	25.3	1.2	P
Copper	231	3.5	P
Iron	153000	41.5	P
Lead	304	2.5	P
Magnesium	41500	40.3	P
Manganese	794	1.1	P
Mercury	14.8	0.50	CV
Nickel	123	2.1	P
Potassium	106000	601	P
Selenium	ND	4.8	P
Silver	ND	1.4	P
Sodium	246000	263	P
Thallium	ND	4.8	P
Vanadium	21.2	1.9	P
Zinc	5730	9.0	P

M Column - Method Code (See Section 2 of Report)

305848

ENVIROTECH RESEARCH, INC.

Client ID: DSRW-1
Site: Klockner & Klockner

Lab Sample No: 90839
Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Date Analyzed: 10/24/98
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v5769.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 10.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	9.3
Bromomethane	ND	2.7
Vinyl Chloride	ND	3.9
Chloroethane	ND	10
Methylene Chloride	ND	10
Acetone	ND	50
Carbon Disulfide	ND	10
1,1-Dichloroethene	ND	5.5
1,1-Dichloroethane	ND	3.1
trans-1,2-Dichloroethene	ND	3.0
cis-1,2-Dichloroethene	ND	10
Chloroform	ND	2.0
1,2-Dichloroethane	ND	2.2
2-Butanone	ND	50
1,1,1-Trichloroethane	ND	2.0
Carbon Tetrachloride	ND	1.6
Bromodichloromethane	ND	1.9
1,2-Dichloropropane	ND	4.6
cis-1,3-Dichloropropene	ND	3.3
Trichloroethene	ND	4.1
Dibromochloromethane	ND	2.3
1,1,2-Trichloroethane	ND	4.3
Benzene	ND	2.4
trans-1,3-Dichloropropene	ND	3.1
Bromoform	ND	3.0
4-Methyl-2-Pentanone	ND	50
2-Hexanone	ND	50
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	3.3
Toluene	ND	1.8
Chlorobenzene	ND	1.4
Ethylbenzene	ND	2.4
Styrene	ND	10
Xylene (Total)	ND	10

305849

ENVIROTECH RESEARCH, INC.

Client ID: **DSRW-1**
Site: Klockner & Klockner

Lab Sample No: **90839**
Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Date Analyzed: 10/24/98
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v5769.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 10.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
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TOTAL ESTIMATED CONCENTRATION 0.0

305850

ENVIROTECH RESEARCH, INC.

Client ID: **DSRW-1**
Site: Klockner & Klockner

Lab Sample ID: 90839
Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Date Extracted: 10/21/98
Date Analyzed: 10/27/98
GC Column: DB-608
Instrument ID: PESTGC6.i

Matrix: WATER
Sample Volume: 920 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Lab File ID: nr004398.d

ORGANOCHLORINE PCBs - GC/ECD
METHOD 608

Parameter	Analytical Results Units: ug/l	Method Detection Limit Units: ug/l
Aroclor-1016	ND	0.30
Aroclor-1221	ND	0.30
Aroclor-1232	ND	0.40
Aroclor-1242	ND	0.20
Aroclor-1248	ND	0.30
Aroclor-1254	ND	0.40
Aroclor-1260	ND	0.20
Aroclor-1262	ND	0.20
Aroclor-1268	ND	0.20

305851

ENVIROTECH RESEARCH, INC.

Client ID: **DSRW-1**
Site: **Klockner & Klockner**

Lab Sample No: 90839
Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Aluminum	30100	58.2	P
Antimony	ND	4.6	P
Arsenic	10.6	3.8	P
Barium	209	1.4	P
Beryllium	1.4	0.20	P
Cadmium	1.0	0.40	P
Calcium	159000	42.2	P
Chromium	155	1.0	P
Cobalt	11.5	1.2	P
Copper	263	3.5	P
Iron	37500	41.5	P
Lead	92.5	2.5	P
Magnesium	11700	40.3	P
Manganese	696	1.1	P
Mercury	0.15	0.10	CV
Nickel	85.2	2.1	P
Potassium	11400	300	P
Selenium	ND	4.8	P
Silver	ND	1.4	P
Sodium	319000	263	P
Thallium	ND	4.8	P
Vanadium	64.2	1.9	P
Zinc	684	4.5	P

M Column - Method Code (See Section 2 of Report)

305852

ENVIROTECH RESEARCH, INC.

Site: Klockner & Klockner

Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Matrix: WATER

Date Analyzed: 10/19/98
QA Batch: 1681

CORROSIVITY (pH)

Envirotech Sample #	Client ID	Analytical Result Units: std unit
90838	DSSR-1	7.63
90839	DSRW-1	10.31

305853

ENVIROTECH RESEARCH, INC.

Site: Klockner & Klockner

Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Matrix: WATER

Date Analyzed: 10/19/98
QA Batch: 1376

IGNITABILITY

Envirotech Sample #	Client ID	Flashpoint Units: deg F
90838	DSSR-1	>160
90839	DSRW-1	>160

305854

ENVIROTECH RESEARCH, INC.

Site: Klockner & Klockner

Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Matrix: WATER

Date Extracted: 10/19/98
Date Analyzed: 10/19/98
QA Batch: 1364

REACTIVE CYANIDE

Envirotech Sample #	Client ID	Dilution Factor	Analytical Result Units: mg/l
90838	DSSR-1	2.0	ND
90839	DSRW-1	2.0	ND

Quantitation Limit for Reactive Cyanide is 25.0 mg/l

305855

ENVIROTECH RESEARCH, INC.

Site: Klockner & Klockner

Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Matrix: WATER

Date Extracted: 10/19/98
Date Analyzed: 10/19/98
QA Batch: 1364

REACTIVE SULFIDE

Envirotech Sample #	Client ID	Dilution Factor	Analytical Result Units: mg/l
90838	DSSR-1	2.0	ND
90839	DSRW-1	2.0	ND

Quantitation Limit for Reactive Sulfide is 20.0 mg/l

305856

ENVIROTECH RESEARCH, INC.

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

Lab Sample No: **90840**
Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Date Analyzed: 10/24/98
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v5770.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	0.9
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.4
Chloroethane	ND	1.0
Methylene Chloride	ND	1.0
Acetone	ND	5.0
Carbon Disulfide	ND	1.0
1,1-Dichloroethene	ND	0.6
1,1-Dichloroethane	ND	0.3
trans-1,2-Dichloroethene	ND	0.3
cis-1,2-Dichloroethene	ND	1.0
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	0.2
Carbon Tetrachloride	ND	0.2
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.5
cis-1,3-Dichloropropene	ND	0.3
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.2
1,1,2-Trichloroethane	ND	0.4
Benzene	ND	0.2
trans-1,3-Dichloropropene	ND	0.3
Bromoform	ND	0.3
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	0.1
1,1,2,2-Tetrachloroethane	ND	0.3
Toluene	ND	0.2
Chlorobenzene	ND	0.1
Ethylbenzene	ND	0.2
Styrene	ND	1.0
Xylene (Total)	ND	1.0

305857

ENVIROTECH RESEARCH, INC.

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

Lab Sample No: **90840**
Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Date Analyzed: 10/24/98
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v5770.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
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TOTAL ESTIMATED CONCENTRATION 0.0

305858

CHAIN-OF-CUSTODY

PROJECT NAME: Klockner & Klockner

PROJECT NO: 95-03-02

LABORATORY: Envirotech Project #809002

SITE ADDRESS: Stickle Avenue & Elm Street, Rockaway Borough, NJ

SAMPLE DATE: 10/16/98

SAMPLER(S): Cheryl L. Coffee

I280

SAMPLE TIME	SAMPLE LOCATION	SAMPLE ID#	SAMPLE DEPTH	SAMPLE MATRIX	ANALYSIS REQUESTED	PRESER-VATIVE	NO. OF CONT.	SPECIAL INSTRUCTIONS
4:00	Scale Room	DSSR-1	–	H_2O	VOC, PCB, Metals, Ign, Corros, React	Ice, HCl HNO_3	6	90838
3:50	Rinse Water	DSRW-1	–	H_2O	VOC, PCB, Metals, Ign, Corros React	Ice, HCl HNO_3	6	90839
ED HNW → 8D	TRIP BLANK			W			2	90840

RELINQUISHED BY: Cheryl L Coffee DATE: 10/16/98 TIME: 18:12 RECEIVED BY: [signature] DATE: 10/16/98 TIME 18:12

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

CT = CEILING TILE
FT = FLOOR TILE

TSI = THERMAL SYSTEM INSULATION

TOTAL NO. CONTAINERS_____

THE WHITMAN COMPANIES INC
44 WEST FERRIS STREET
EAST BRUNSWICK, NJ 08816

305859

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
ENVIROTECH RESEARCH, INC.

777 NEW DURHAM ROAD, EDISON, NJ
08817
(732) 549-3900

Job No: 1280 **Site:** Klockner & Klockner

Client: The Whitman Companies, Inc.

VOAMS

WATER - 624

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
90838	10/16/1998	10/16/1998			10.27.98	DB	8397
90839	10/16/1998	10/16/1998			10.24.98	LD	8397
90840	10/16/1998	10/16/1998			↓	↓	↓

305860

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
ENVIROTECH RESEARCH, INC.

777 NEW DURHAM ROAD, EDISON, NJ
08817
(732) 549-3900

Job No: 1280 **Site:** Klockner & Klockner

Client: The Whitman Companies, Inc.

PESTGC

608

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
WATER							
90838	10/16/1998	10/16/1998	10-21-98	J-R	10-27-98	DW	5000
90839	10/16/1998	10/16/1998	↓	↓	↓	↓	↓

305861

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
ENVIROTECH RESEARCH, INC.

777 NEW DURHAM ROAD, EDISON, NJ
08817
(732) 549-3900

Job No: 1280 **Site:** Klockner & Klockner

Client: The Whitman Companies, Inc. **Date Sampled:** 10/16/1998

Sample No.: 90838 **Date Received:** 10/16/1998

Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	10/27/98	MP	10/28/98	MP	7076
ANTIMONY	10/27/98	SS	10/27/98	PL	
ARSENIC					
LEAD					
SELENIUM					
THALLIUM					
ALUMINUM					
BARIUM					
BERYLLIUM					
CADMIUM					
CALCIUM					
CHROMIUM					
COBALT					
COPPER					
IRON					
MAGNESIUM					
MANGANESE					
NICKEL					
POTASSIUM			10/29/98	PL	
SILVER			10/27/98	PL	
SODIUM			10/28/98	PL	
VANADIUM			10/27/98	PL	
ZINC					

305862

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
ENVIROTECH RESEARCH, INC.

777 NEW DURHAM ROAD, EDISON, NJ
08817
(732) 549-3900

Job No: 1280 **Site:** Klockner & Klockner

Client: The Whitman Companies, Inc. **Date Sampled:** 10/16/1998

Sample No.: 90839 **Date Received:** 10/16/1998

Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	10/27/98	mp	10/28/98	mp	7090
ANTIMONY	10/27/98	SS	10/27/98	PR	
ARSENIC					
LEAD					
SELENIUM					
THALLIUM					
ALUMINUM					
BARIUM					
BERYLLIUM					
CADMIUM					
CALCIUM					
CHROMIUM					
COBALT					
COPPER					
IRON					
MAGNESIUM					
MANGANESE					
NICKEL					
POTASSIUM					
SILVER					
SODIUM			10/28/98	PR	
VANADIUM			10/27/98	PR	
ZINC					

305863

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
ENVIROTECH RESEARCH, INC.

777 NEW DURHAM ROAD, EDISON, NJ
08817
(732) 549-3900

305864

Job No: 1280 **Site:** Klockner & Klockner

Client: The Whitman Companies, Inc.

WET CHEM

CN REACTIVITY

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
WATER							
90838	10/16/1998	10/16/1998	10/19/98	ZV	10/19/98	ZV	1364
90839	10/16/1998	10/16/1998	↓	↓	↓	↓	↓

CORROSIVITY

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
WATER							
90838	10/16/1998	10/16/1998			10/19/98	TOM	1681
90839	10/16/1998	10/16/1998			↓	↓	↓

IGNITABILITY

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
WATER							
90838	10/16/1998	10/16/1998			10/19/98	ZV	1376
90839	10/16/1998	10/16/1998			↓	↓	↓

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
ENVIROTECH RESEARCH, INC.

777 NEW DURHAM ROAD, EDISON, NJ
08817
(732) 549-3900

Job No: 1280 **Site:** Klockner & Klockner

Client: The Whitman Companies, Inc.

WET CHEM

S REACTIVITY

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
WATER							
90838	10/16/1998	10/16/1998	10/19/98	ZV	10/19/98	ZV	1364
90839	10/16/1998	10/16/1998	↓	↓	↓	↓	↓

305865

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

305866

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.

305867

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.

305868

ORGANIC 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 quantitation 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.

INORGANIC DATA REPORTING QUALIFIERS (SW-846 METHODS ONLY)

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

B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.

E - The reported value is estimated because of the presence of interference. See explanatory note in the Nonconformance Summary if the problem applies to all of the samples or on the individual Inorganic Analysis Data Sheet if the problem is isolated.

M - Duplicate injection precision not met on the Furnace Atomic Absorption analysis.

N - The spiked sample recovery is not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

* - Duplicate Analysis is not within control limits.

W - Post digestion spike for Furnace Atomic Absorption analysis is out of control.

\+ - Correlation coefficient for MSA is less than 0.995.

M Column - Method Qualifiers

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP).

A - Flame Atomic Absorption Spectroscopy (FAA).

F - Graphite Furnace Atomic Absorption Spectroscopy (GFAA).

CV - Cold Vapor Atomic Absorption Spectroscopy.

305869

NON-CONFORMANCE SUMMARY

Envirotech Research, Inc. Job Number: I280

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 ( )

305870

Non-conformance Summary, Page 2 of 2
Envirotech Research, Inc. Job Number: I280

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: 11/2/98

305871

Client ID: **DSSR-1**
Site: Klockner & Klockner

Lab Sample No: **90838**
Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Date Analyzed: 10/27/98
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v5872.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 5.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	4.6
Bromomethane	ND	1.4
Vinyl Chloride	ND	2.0
Chloroethane	ND	5.2
Methylene Chloride	ND	5.2
Acetone	46	25
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.8
1,1-Dichloroethane	ND	1.6
trans-1,2-Dichloroethene	ND	1.5
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	1.0
1,2-Dichloroethane	ND	1.1
2-Butanone	ND	25
1,1,1-Trichloroethane	ND	1.0
Carbon Tetrachloride	ND	0.8
Bromodichloromethane	ND	0.9
1,2-Dichloropropane	ND	2.3
cis-1,3-Dichloropropene	ND	1.6
Trichloroethene	ND	2.0
Dibromochloromethane	ND	1.2
1,1,2-Trichloroethane	ND	2.2
Benzene	ND	1.2
trans-1,3-Dichloropropene	ND	1.6
Bromoform	ND	1.5
4-Methyl-2-Pentanone	ND	25
2-Hexanone	ND	25
Tetrachloroethene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	1.6
Toluene	ND	0.9
Chlorobenzene	ND	0.7
Ethylbenzene	ND	1.2
Styrene	ND	5.0
Xylene (Total)	ND	5.0

305872

Client ID: **DSSR-1**
Site: Klockner & Klockner

Lab Sample No: **90838**
Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Date Analyzed: 10/27/98
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v5872.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 5.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

305873

Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5872.d
Report Date: 28-Oct-1998 08:10

Envirotech Research, Inc.

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5872.d
Lab Smp Id: 90838 Client Smp ID: DSSR-1
Inj Date : 27-OCT-1998 18:19
Operator : VOAMS 7 Inst ID: VOAMS7.i
Smp Info : 90838;5
Misc Info : I280;897;DB
Comment :
Method : /chem/VOAMS7.i/624/10-27-98/27oct98.b/new624.m
Meth Date : 27-Oct-98 13:52:52 dave Quant Type: ISTD
Cal Date : 27-OCT-1998 13:26 Cal File: v5863.d
Als bottle: 5
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.40
Processing Host: hpd2

Concentration Formula: Amt * DF * 5/Vo

Name	Value	Description
DF	5.000	Dilution Factor
Vo	5.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
7 Acetone	43	6.053	6.083	(0.687)	104365	9.29839	46
* 2 Bromochloromethane	128	8.811	8.812	(1.000)	790085	30.0000	
$ 16 1,2-Dichloroethane-d4 (SUR)	104	9.538	9.538	(0.947)	172100	30.0865	30
* 19 1,4-Difluorobenzene	114	10.071	10.072	(1.000)	2868993	30.0000	
$ 37 Toluene-d8 (SUR)	98	11.895	11.896	(0.876)	2553502	28.6796	29
* 32 Chlorobenzene-d5	117	13.586	13.601	(1.000)	2019255	30.0000	
$ 41 Bromofluorobenzene (SUR)	174	14.861	14.861	(1.094)	1162549	28.5290	28

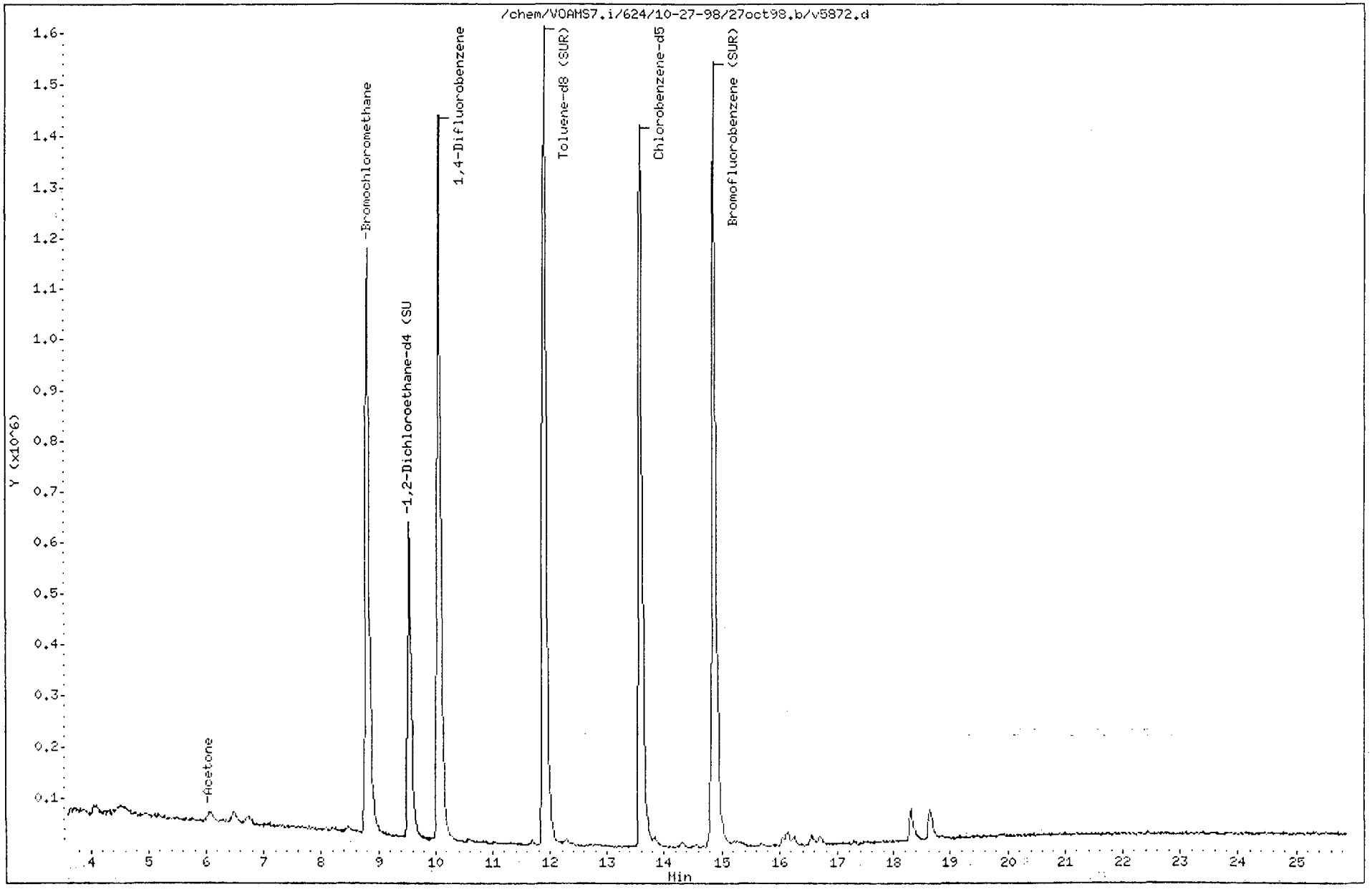
305874

Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5872.d
Date : 27-OCT-1998 18:19
Client ID: DSSR-1
Sample Info: 90838;5
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAMS7.i

Operator: VOAMS 7
Column diameter: 0.53

305875



31

Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5872.d

Date : 27-OCT-1998 18:19

Client ID: DSSR-1 | Instrument: VOAMS7.i

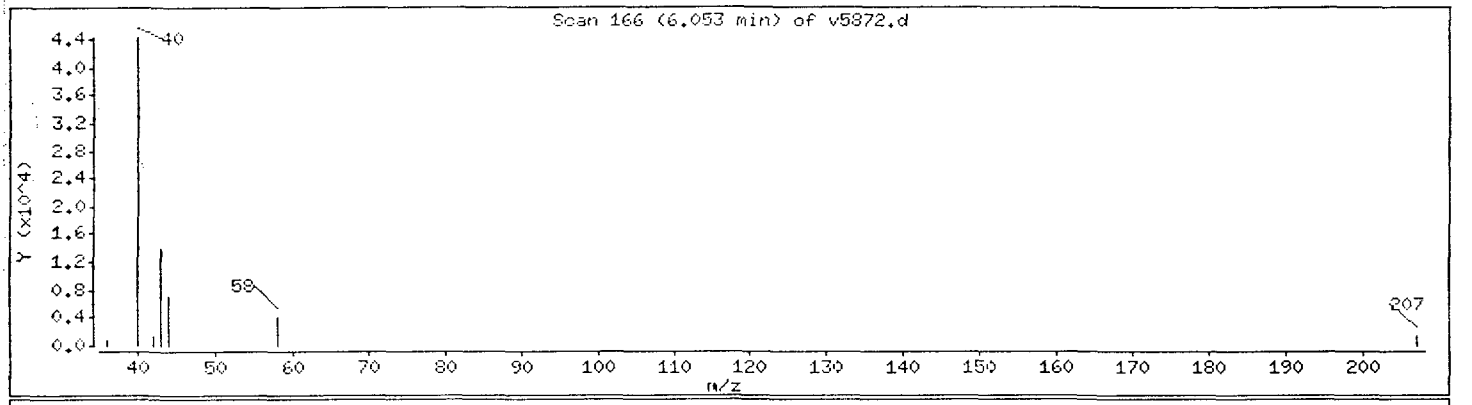
Sample Info: 90838;5

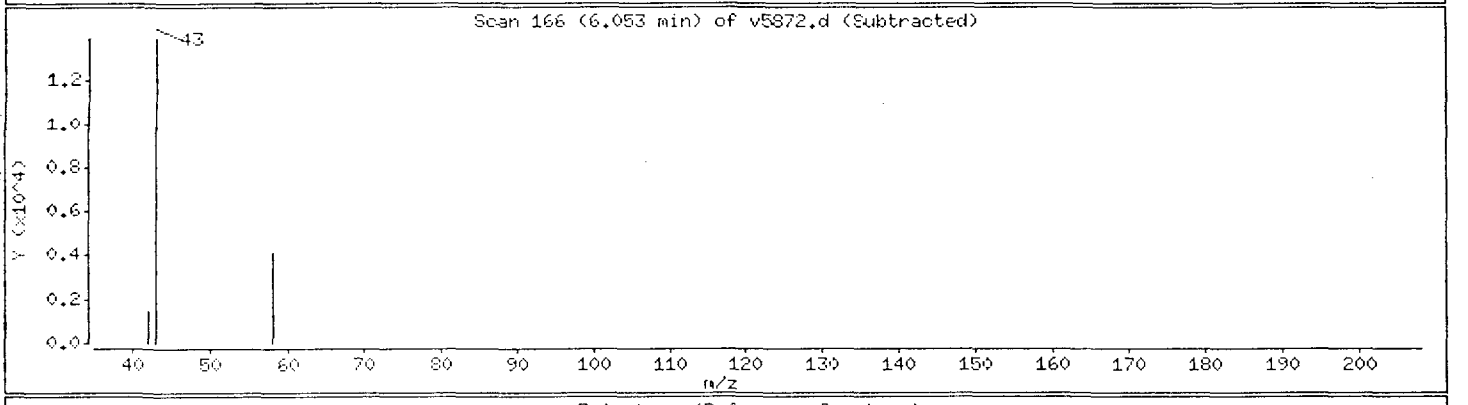
Purge Volume: 5.0 | Operator: VOAMS 7

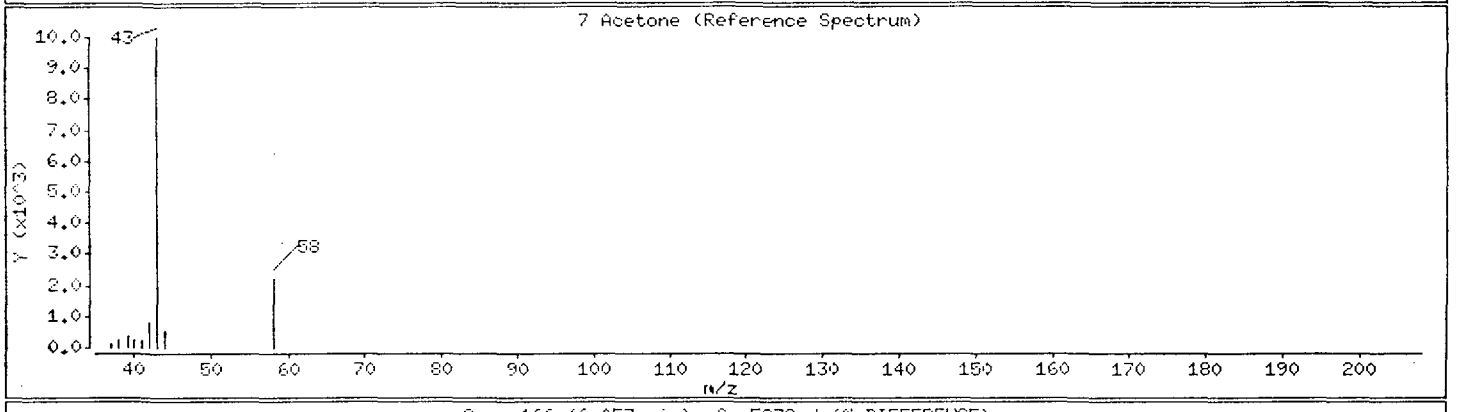
Column phase: DB624 | Column diameter: 0.53

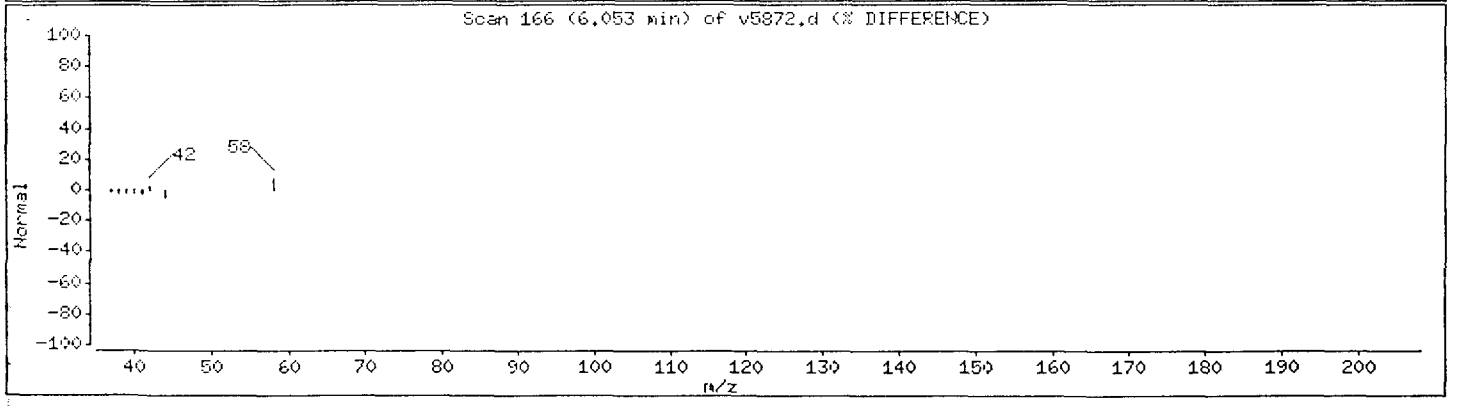
305876

7 Acetone | Concentration: 46 ug/L









Client ID: **DSRW-1**
Site: Klockner & Klockner

Lab Sample No: **90839**
Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Date Analyzed: 10/24/98
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v5769.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 10.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	9.3
Bromomethane	ND	2.7
Vinyl Chloride	ND	3.9
Chloroethane	ND	10
Methylene Chloride	ND	10
Acetone	ND	50
Carbon Disulfide	ND	10
1,1-Dichloroethene	ND	5.5
1,1-Dichloroethane	ND	3.1
trans-1,2-Dichloroethene	ND	3.0
cis-1,2-Dichloroethene	ND	10
Chloroform	ND	2.0
1,2-Dichloroethane	ND	2.2
2-Butanone	ND	50
1,1,1-Trichloroethane	ND	2.0
Carbon Tetrachloride	ND	1.6
Bromodichloromethane	ND	1.9
1,2-Dichloropropane	ND	4.6
cis-1,3-Dichloropropene	ND	3.3
Trichloroethene	ND	4.1
Dibromochloromethane	ND	2.3
1,1,2-Trichloroethane	ND	4.3
Benzene	ND	2.4
trans-1,3-Dichloropropene	ND	3.1
Bromoform	ND	3.0
4-Methyl-2-Pentanone	ND	50
2-Hexanone	ND	50
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	3.3
Toluene	ND	1.8
Chlorobenzene	ND	1.4
Ethylbenzene	ND	2.4
Styrene	ND	10
Xylene (Total)	ND	10

305877

Client ID: **DSRW-1**
Site: Klockner & Klockner

Lab Sample No: **90839**
Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Date Analyzed: 10/24/98
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v5769.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 10.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

305878

Data File: /chem/VOAMS7.i/624/10-21-98/23oct98.b/v5769.d
Report Date: 25-Oct-98 11:22:56

Envirotech Research, Inc.

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-21-98/23oct98.b/v5769.d
Lab Smp Id: 90839 Client Smp ID: DSRW-1
Inj Date : 24-OCT-98 04:36:00
Operator : VOAMS 7 Inst ID: VOAMS7.i
Smp Info : 90839;10
Misc Info : I280;8397;;LD
Comment :
Method : /chem/VOAMS7.i/624/10-21-98/23oct98.b/new624.m
Meth Date : 23-Oct-98 16:15:32 dave Quant Type: ISTD
Cal Date : 21-OCT-98 13:08:00 Cal File: v5656.d
Als bottle: 38
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.20
Procesing Host: hpvoa

Concentration Formula: 5/Vo

Name	Value	Description
Vo	5.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 2 Bromochloromethane	128	9.124	8.885	(1.000)	713829	30	
$ 16 1,2-Dichloroethane-d4 (SUR)	104	9.821	9.612	(0.953)	154743	29	29
* 19 1,4-Difluorobenzene	114	10.310	10.146	(1.000)	2701411	30	
$ 37 Toluene-d8 (SUR)	98	12.075	11.984	(0.879)	2396313	30	30
* 32 Chlorobenzene-d5	117	13.736	13.675	(1.000)	1840788	30	
$ 41 Bromofluorobenzene (SUR)	174	14.981	14.950	(1.091)	1057219	29	29

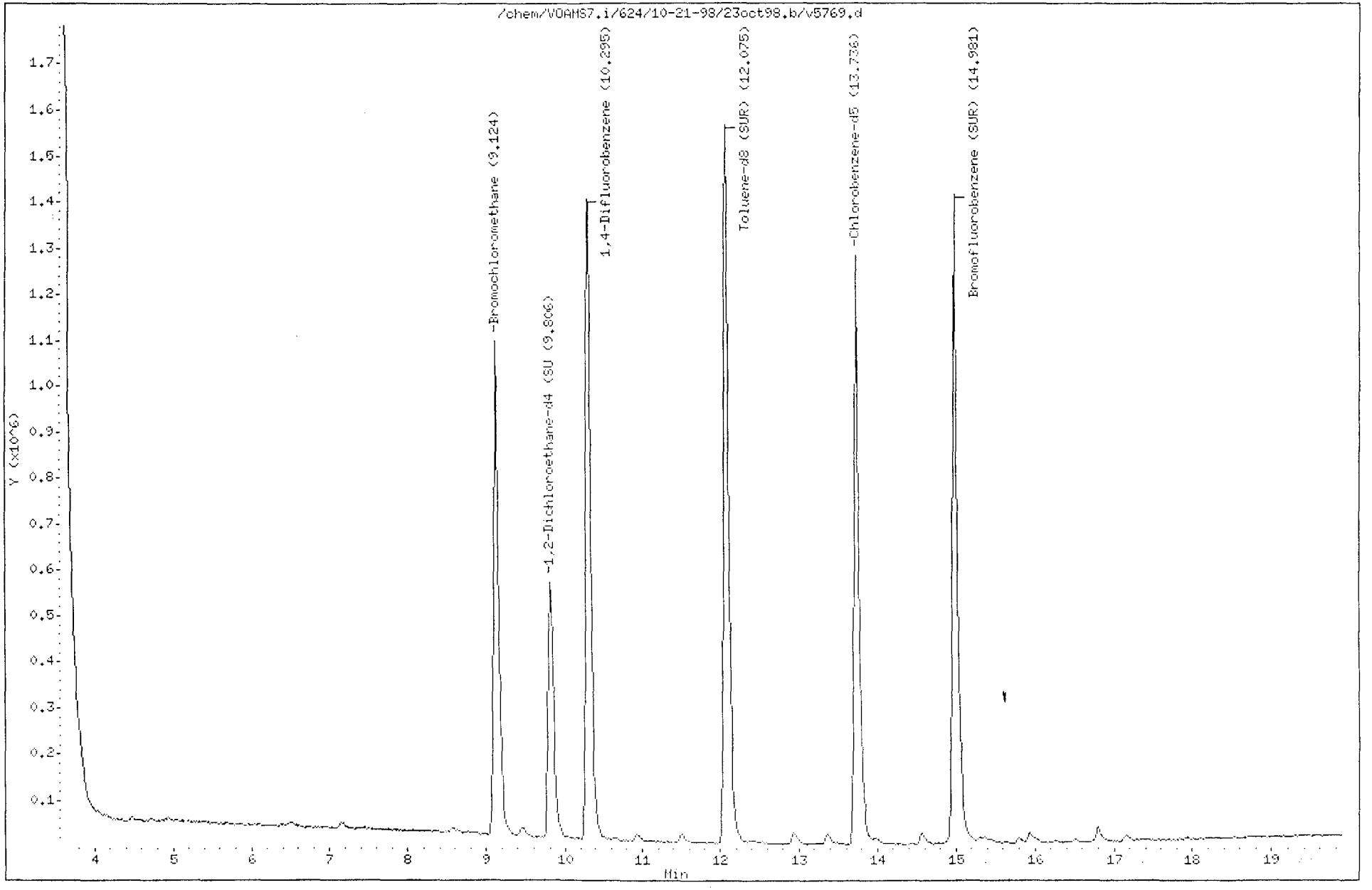
* Sample diluted due to foaming *

305879

Data File: /chem/VOAMS7.i/624/10-21-98/23oct98.b/v5769.d
Date : 24-OCT-98 04:36:00
Client ID: DSRW-1
Sample Info: 90839;10
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAMS7.i
Operator: VOAMS 7
Column diameter: 0.53

305880



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

Lab Sample No: **90840**
Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Date Analyzed: 10/24/98
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v5770.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	0.9
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.4
Chloroethane	ND	1.0
Methylene Chloride	ND	1.0
Acetone	ND	5.0
Carbon Disulfide	ND	1.0
1,1-Dichloroethene	ND	0.6
1,1-Dichloroethane	ND	0.3
trans-1,2-Dichloroethene	ND	0.3
cis-1,2-Dichloroethene	ND	1.0
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	0.2
Carbon Tetrachloride	ND	0.2
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.5
cis-1,3-Dichloropropene	ND	0.3
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.2
1,1,2-Trichloroethane	ND	0.4
Benzene	ND	0.2
trans-1,3-Dichloropropene	ND	0.3
Bromoform	ND	0.3
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	0.1
1,1,2,2-Tetrachloroethane	ND	0.3
Toluene	ND	0.2
Chlorobenzene	ND	0.1
Ethylbenzene	ND	0.2
Styrene	ND	1.0
Xylene (Total)	ND	1.0

305881

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

Lab Sample No: **90840**
Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Date Analyzed: 10/24/98
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v5770.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
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26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

305882

Data File: /chem/VOAMS7.i/624/10-21-98/23oct98.b/v5770.d
Report Date: 25-Oct-98 11:23:01

Envirotech Research, Inc.

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-21-98/23oct98.b/v5770.d
Lab Smp Id: 90840 Client Smp ID: Trip_Blank
Inj Date : 24-OCT-98 05:03:00
Operator : VOAMS 7 Inst ID: VOAMS7.i
Smp Info : 90840
Misc Info : I280;8397;;LD
Comment :
Method : /chem/VOAMS7.i/624/10-21-98/23oct98.b/new624.m
Meth Date : 23-Oct-98 16:15:32 dave Quant Type: ISTD
Cal Date : 21-OCT-98 13:08:00 Cal File: v5656.d
Als bottle: 39
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.20
Procesing Host: hpvoa

Concentration Formula: 5/Vo

Name	Value	Description
Vo	5.000	Sample Volume

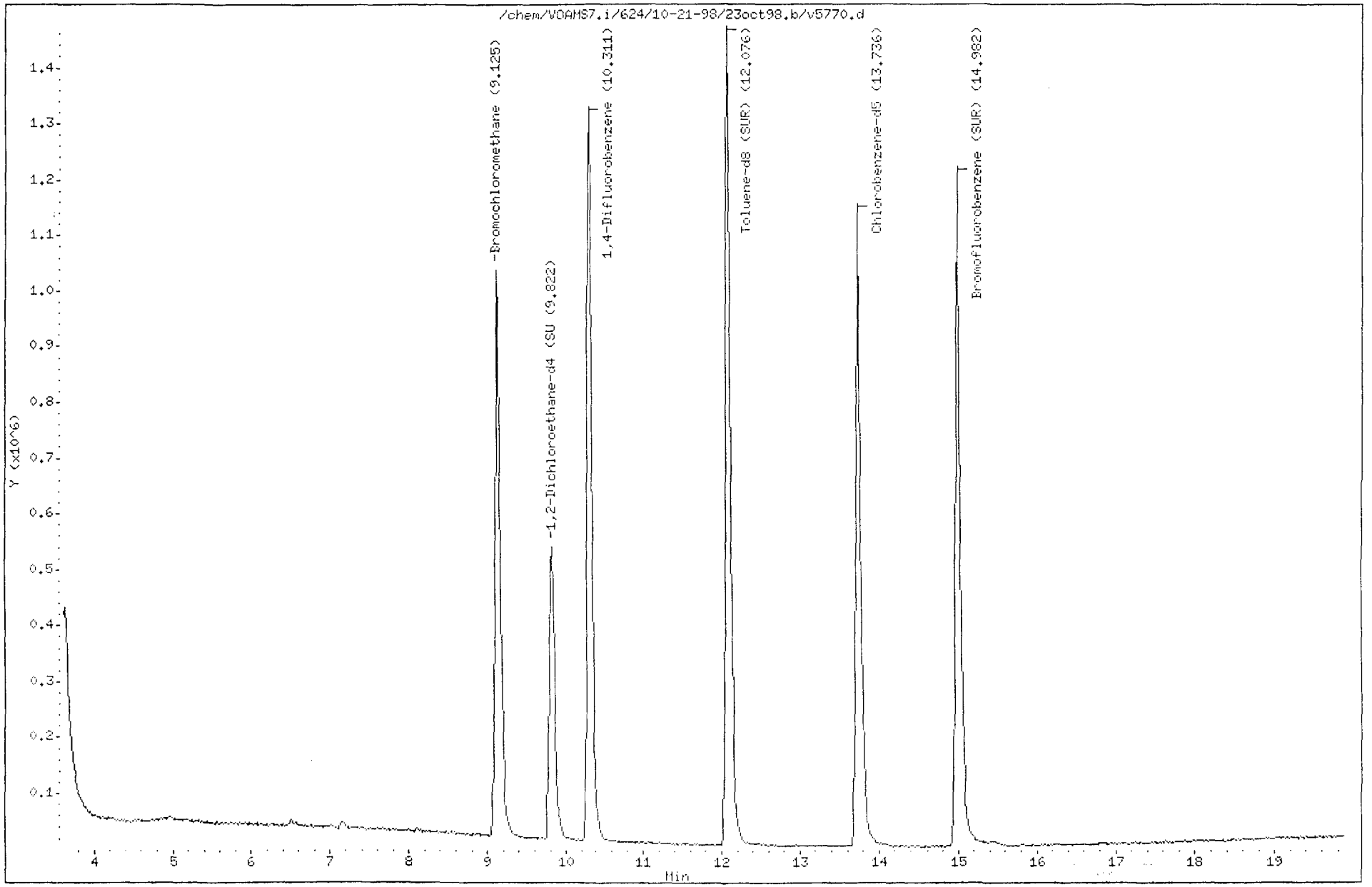
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 2 Bromochloromethane	128	9.125	8.885	(1.000)	684831	30	
$ 16 1,2-Dichloroethane-d4 (SUR)	104	9.822	9.612	(0.953)	134712	27	27
* 19 1,4-Difluorobenzene	114	10.311	10.146	(1.000)	2534214	30	
$ 37 Toluene-d8 (SUR)	98	12.076	11.984	(0.879)	2239732	31	31
* 32 Chlorobenzene-d5	117	13.736	13.675	(1.000)	1674595	30	
$ 41 Bromofluorobenzene (SUR)	174	14.982	14.950	(1.091)	948059	29	29

305883

Data File: /chem/VOAMS7.i/624/10-21-98/23oct98.b/v5770.d
Date : 24-OCT-98 05:03:00
Client ID: Trip_Blank
Sample Info: 90840
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAMS7.i
Operator: VOAMS 7
Column diameter: 0.53

305884



VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab File ID: V5651 BFB Injection Date: 10/21/98

Instrument ID: VOAMS7 BFB Injection Time: 1049

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.5
75	30.0 - 60.0% of mass 95	48.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 1.0% of mass 95	0.0
174	50.0 - 100.0% of mass 95	76.5
175	5.0 - 9.0% of mass 174	5.7 (7.4)1
176	95.0 - 101.0% of mass 174	76.5 (99.9)1
177	5.0 - 9.0% of mass 176	5.1 (6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	VSTD200	V5652	10/21/98	1117
02	VSTD050	VSTD050	V5653	10/21/98	1144
03	VSTD020	VSTD020	V5654	10/21/98	1212
04	VSTD010	VSTD010	V5655	10/21/98	1240
05	VSTD005	VSTD005	V5656	10/21/98	1308
06					
07					
08					
09					
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14					
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16					
17					
18					
19					
20					
21					
22					

305885

Data File: /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5651.d

Date : 21-OCT-98 10:49:00

Client ID:

Instrument: VOAMS7.i

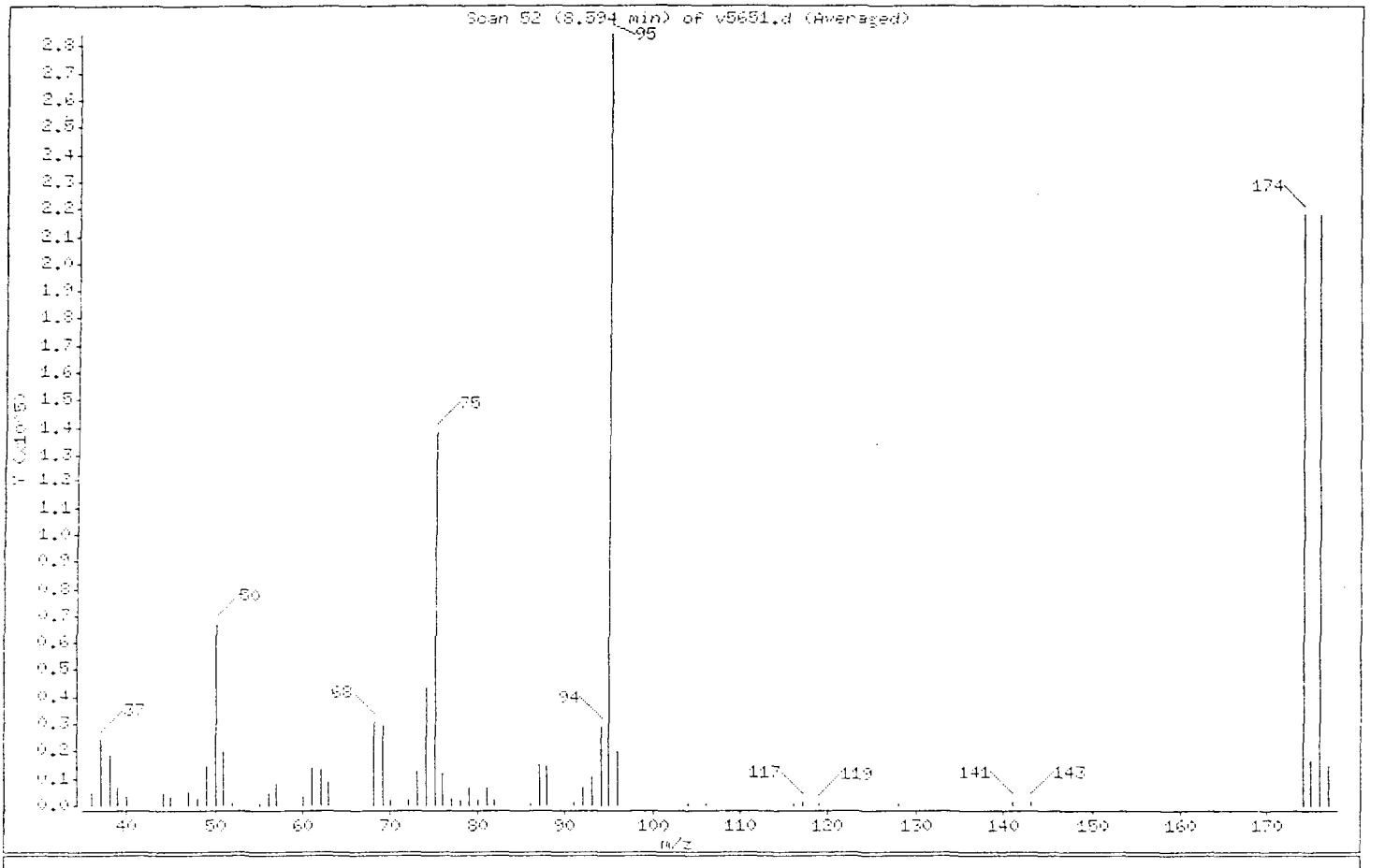
Sample Info: WBFB294 50ng

Operator: VOAMS 4

Column phase: DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.46
75	30.00 - 60.00% of mass 95	48.46
96	5.00 - 9.00% of mass 95	6.87
173	Less than 1.00% of mass 95	0.00
174	50.00 - 100.00% of mass 95	76.52
175	5.00 - 9.00% of mass 174	5.85 (7.39)
176	95.00 - 101.00% of mass 174	76.46 (99.92)
177	5.00 - 9.00% of mass 176	5.09 (6.66)

305886

Data File: /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5651.d

Date : 21-OCT-98 10:49:00

Client ID: Instrument: VOAMS7.i

Sample Info: WBFB394 50ng

Operator: VOAMS 4

Column phase: DB-624 Column diameter: 0.53

Data File: v5651.d

Spectrum: Scan 53 (8.594 min) of v5651.d (Averaged)

Location of Maximum: 95.00

Number of points: 55

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4828	56.00	4473	77.00	2376	96.00	19510
37.00	24000	57.00	7677	78.00	1747	104.00	721
38.00	18586	60.00	3062	79.00	6429	106.00	729
39.00	6480	61.00	13993	80.00	2114	116.00	359
40.00	3579	62.00	12890	81.00	6718	117.00	1064
44.00	4571	63.00	8767	82.00	1754	119.00	390
45.00	3488	68.00	30578	86.00	340	128.00	334
47.00	5178	69.00	29197	87.00	14773	141.00	1397
48.00	2619	70.00	2263	88.00	14627	143.00	1498
49.00	14684	72.00	1737	91.00	1069	174.00	217429
50.00	66656	73.00	12396	92.00	6390	175.00	16059
51.00	19830	74.00	43232	93.00	10200	176.00	217258
52.00	764	75.00	137709	94.00	28581	177.00	14467
55.00	402	76.00	11561	95.00	284160		

305887

Data File: /chem/WOAMS7.i/624/10-21-98/21oct98.b/v5651.d

Date : 21-OCT-98 10:49:00

Client ID:

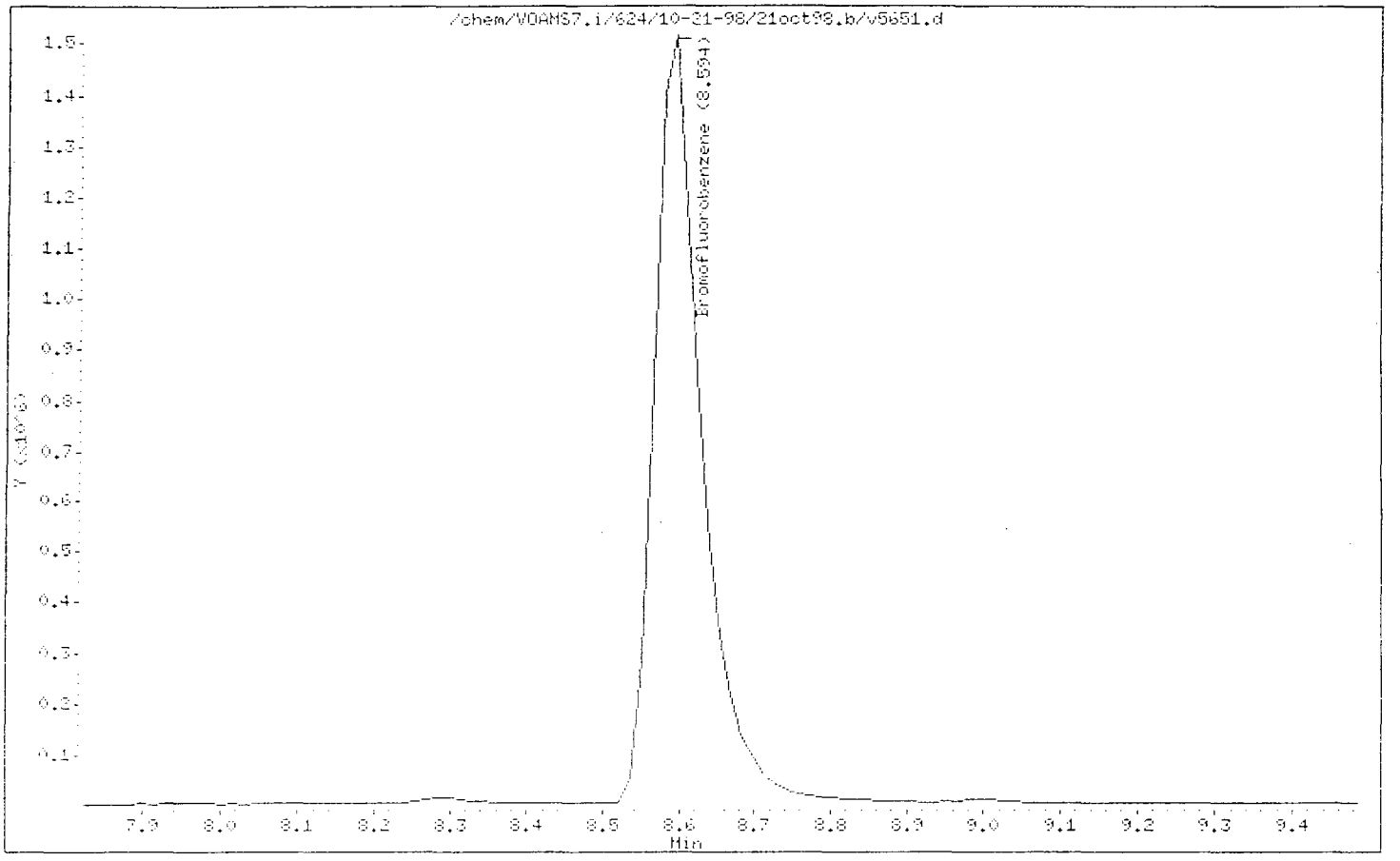
Instrument: WOAMS7.i

Sample Info: VBFB294 50ng

Operator: WOAMS 4

Column phase: DB-624

Column diameter: 0.53



305888

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab File ID: V5731 BFB Injection Date: 10/23/98

Instrument ID: VOAMS7 BFB Injection Time: 0940

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.7
75	30.0 - 60.0% of mass 95	48.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 1.0% of mass 95	0.0
174	50.0 - 100.0% of mass 95	77.3
175	5.0 - 9.0% of mass 174	5.7 (7.4)1
176	95.0 - 101.0% of mass 174	75.1 (97.1)1
177	5.0 - 9.0% of mass 176	5.1 (6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD296	VSTD296	V5732	10/23/98	1013
02	VV296	VV296	V5736	10/23/98	1232
03	DSRW-1	90839	V5769	10/24/98	0436
04	TRIP_BLANK	90840	V5770	10/24/98	0503
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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16					
17					
18					
19					
20					
21					
22					

305889

Data File: /chem/VOAMS7.i/624/10-21-98/23oct98.b/v5731.d

Date : 23-OCT-1998 09:40

Client ID:

Instrument: VOAMS7.i

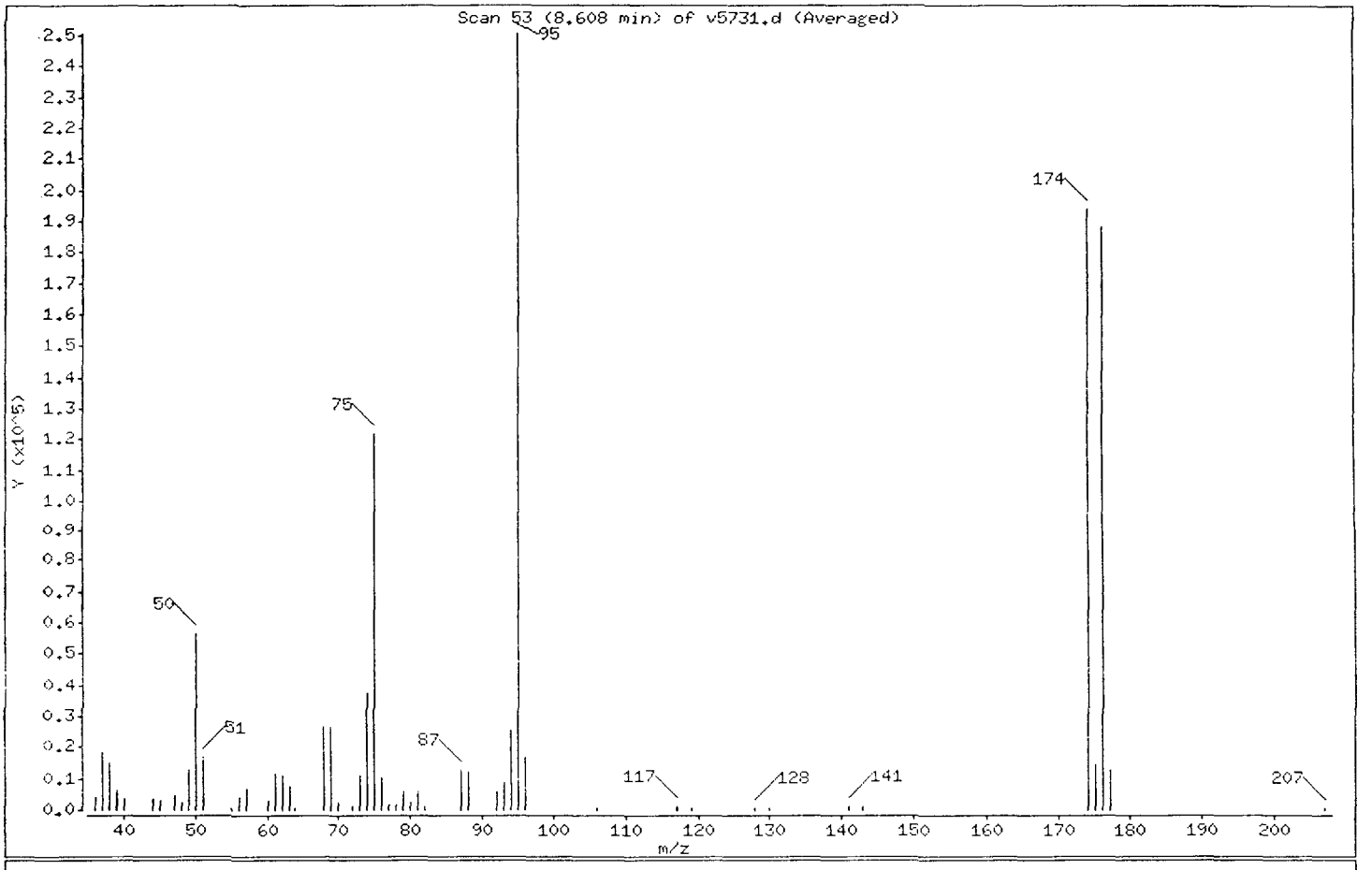
Sample Info: VBFB296 50ng

Operator: VOAMS 4

Column phase: DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.69
75	30.00 - 60.00% of mass 95	48.59
96	5.00 - 9.00% of mass 95	6.80
173	Less than 1.00% of mass 95	0.00
174	50.00 - 100.00% of mass 95	77.32
175	5.00 - 9.00% of mass 174	5.72 (7.40)
176	95.00 - 101.00% of mass 174	75.10 (97.13)
177	5.00 - 9.00% of mass 176	5.10 (6.79)

305890

Data File: /chem/VOAMS7.i/624/10-21-98/23oct98.b/v5731.d

Date : 23-OCT-1998 09:40

Client ID: Instrument: VOAMS7.i

Sample Info: VBFB296 50ng

Operator: VOAMS 4

Column phase: DB-624 Column diameter: 0.53

Data File: v5731.d
Spectrum: Scan 54 (8.608 min) of v5731.d (Averaged)
Location of Maximum: 95.00
Number of points: 53

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4088	57.00	6914	77.00	1951	117.00	921
37.00	18653	60.00	2894	78.00	1664	119.00	716
38.00	15303	61.00	11735	79.00	5740	128.00	394
39.00	6072	62.00	10809	80.00	2113	130.00	366
40.00	3278	63.00	7739	81.00	5862	141.00	992
44.00	3601	64.00	704	82.00	1436	143.00	897
45.00	3079	68.00	26786	87.00	12769	174.00	193792
47.00	4536	69.00	26554	88.00	12237	175.00	14339
48.00	2333	70.00	2031	92.00	5967	176.00	188224
49.00	12873	72.00	1398	93.00	8907	177.00	12772
50.00	56864	73.00	10865	94.00	25488	207.00	344
51.00	16610	74.00	37738	95.00	250645		
55.00	376	75.00	121789	96.00	17033		
56.00	3916	76.00	10425	106.00	392		

305891

Data File: /chem/VOAMS7.i/624/10-21-98/23oct98.b/v5731.d

Date : 23-OCT-1998 09:40

Client ID:

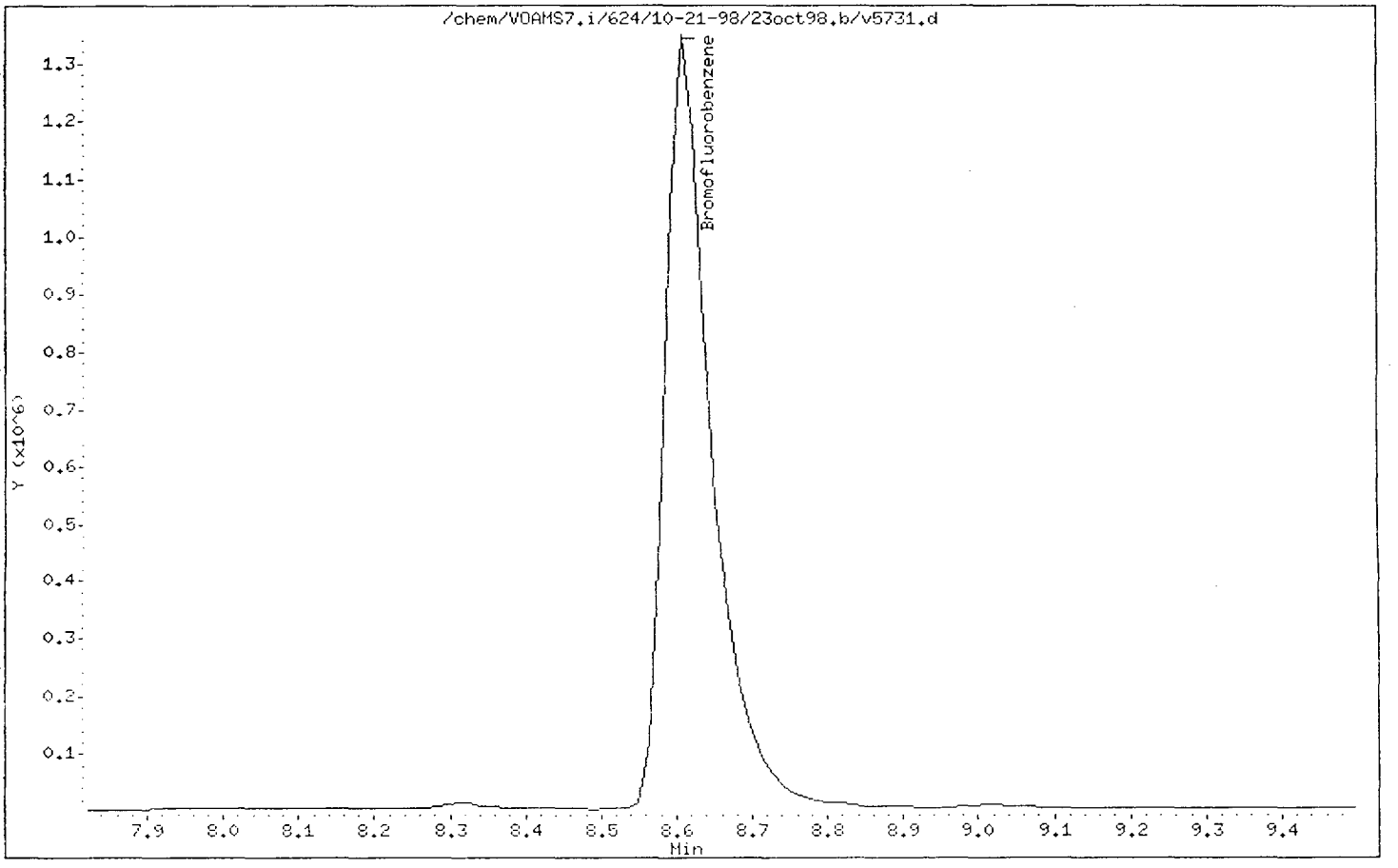
Instrument: VOAMS7.i

Sample Info: VBFB296 50ng

Operator: VOAMS 4

Column phase: DB-624

Column diameter: 0.53



305892

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab File ID: V5856 BFB Injection Date: 10/27/98

Instrument ID: VOAMS7 BFB Injection Time: 0800

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.3
75	30.0 - 60.0% of mass 95	50.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 1.0% of mass 95	0.0
174	50.0 - 100.0% of mass 95	74.9
175	5.0 - 9.0% of mass 174	5.3 (7.1)1
176	95.0 - 101.0% of mass 174	73.7 (98.4)1
177	5.0 - 9.0% of mass 176	4.7 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	VSTD200	V5859	10/27/98	1134
02	VSTD050	VSTD050	V5860	10/27/98	1202
03	VSTD020	VSTD020	V5861	10/27/98	1230
04	VSTD010	VSTD010	V5862	10/27/98	1258
05	VSTD005	VSTD005	V5863	10/27/98	1326
06	VV300	VV300	V5867	10/27/98	1544
07	DSSR-1	90838	V5872	10/27/98	1819
08					
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21					
22					

305893

Data File: /chem/WOAMS7.i/624/10-27-98/27oct98.b/v5856.d

Date : 27-OCT-98 08:00:00

Client ID: WBFB300 50ng

Instrument: WOAMS7.i

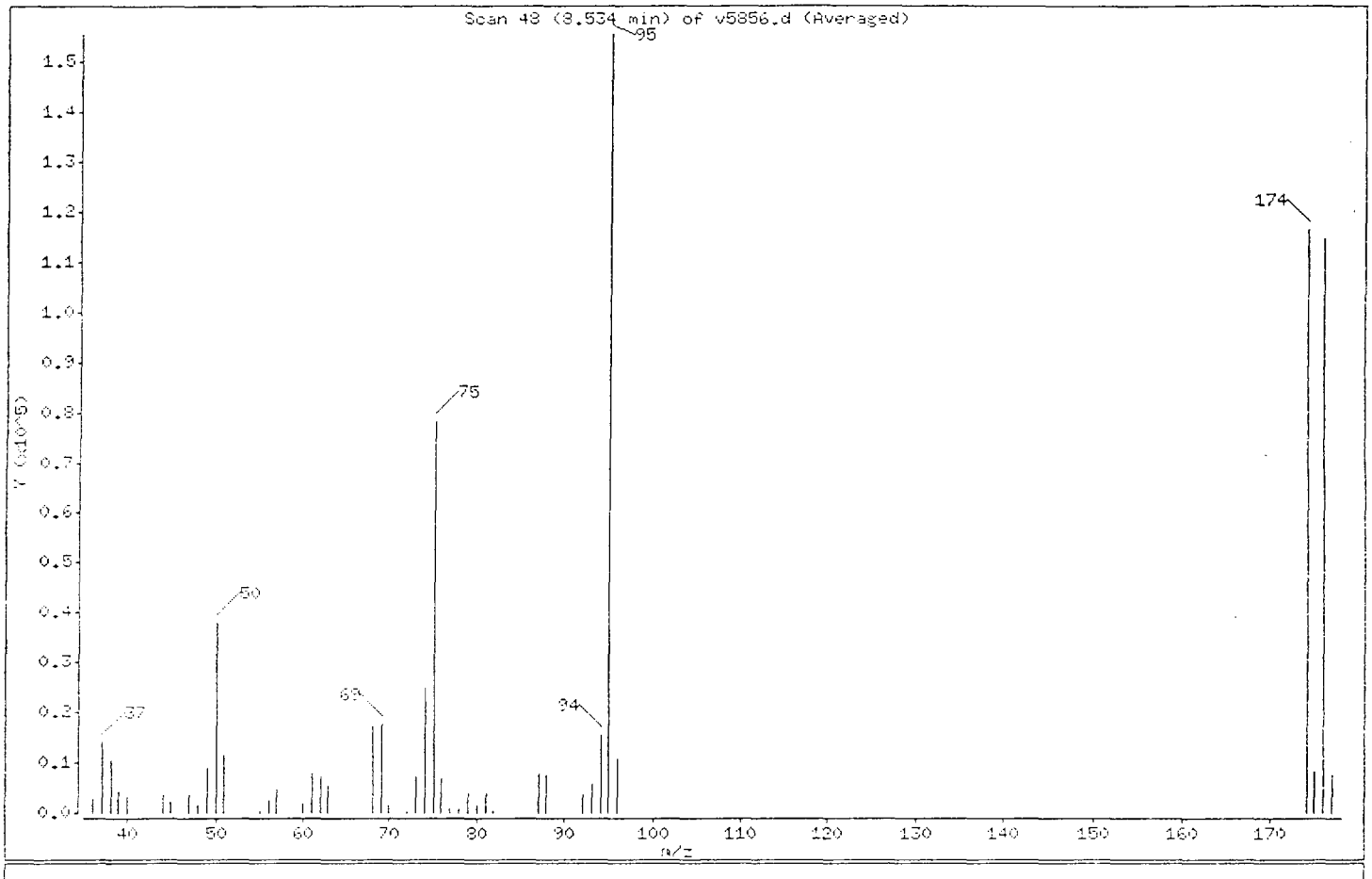
Sample Info: WBFB300 50ng

Operator: WOAMS 4

Column phase: DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.31
75	30.00 - 60.00% of mass 95	50.33
96	5.00 - 9.00% of mass 95	6.94
173	Less than 1.00% of mass 95	0.00
174	50.00 - 100.00% of mass 95	74.91
175	5.00 - 9.00% of mass 174	5.30 (7.08)
176	95.00 - 101.00% of mass 174	73.70 (98.39)
177	5.00 - 9.00% of mass 176	4.71 (6.40)

305894

Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5856.d

Date : 27-OCT-98 08:00:00

Client ID: VBFB300 50ng

Instrument: VOAMS7.i

Sample Info: VBFB300 50ng

Operator: VOAMS 4

Column phase: DB-624

Column diameter: 0.53

Data File: v5856.d
Spectrum: Scan 49 (8.534 min) of v5856.d (Averaged)
Location of Maximum: 95.00
Number of points: 44

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2881	55.00	344	74.00	24786	93.00	5812
37.00	13940	56.00	2476	75.00	78133	94.00	15366
38.00	10330	57.00	4727	76.00	6753	95.00	155242
39.00	4320	60.00	1880	77.00	855	96.00	10777
40.00	3316	61.00	7686	78.00	857	174.00	116285
44.00	3717	62.00	7194	79.00	3900	175.00	8228
45.00	2239	63.00	5134	80.00	1303	176.00	114418
47.00	3558	68.00	17245	81.00	3813	177.00	7318
48.00	1469	69.00	17375	82.00	366		
49.00	9008	70.00	1280	87.00	7951		
50.00	37733	72.00	362	88.00	7579		
51.00	11452	73.00	7309	92.00	3670		

305895

Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5856.d

Date : 27-OCT-98 08:00:00

Client ID: VBFB300 50ng

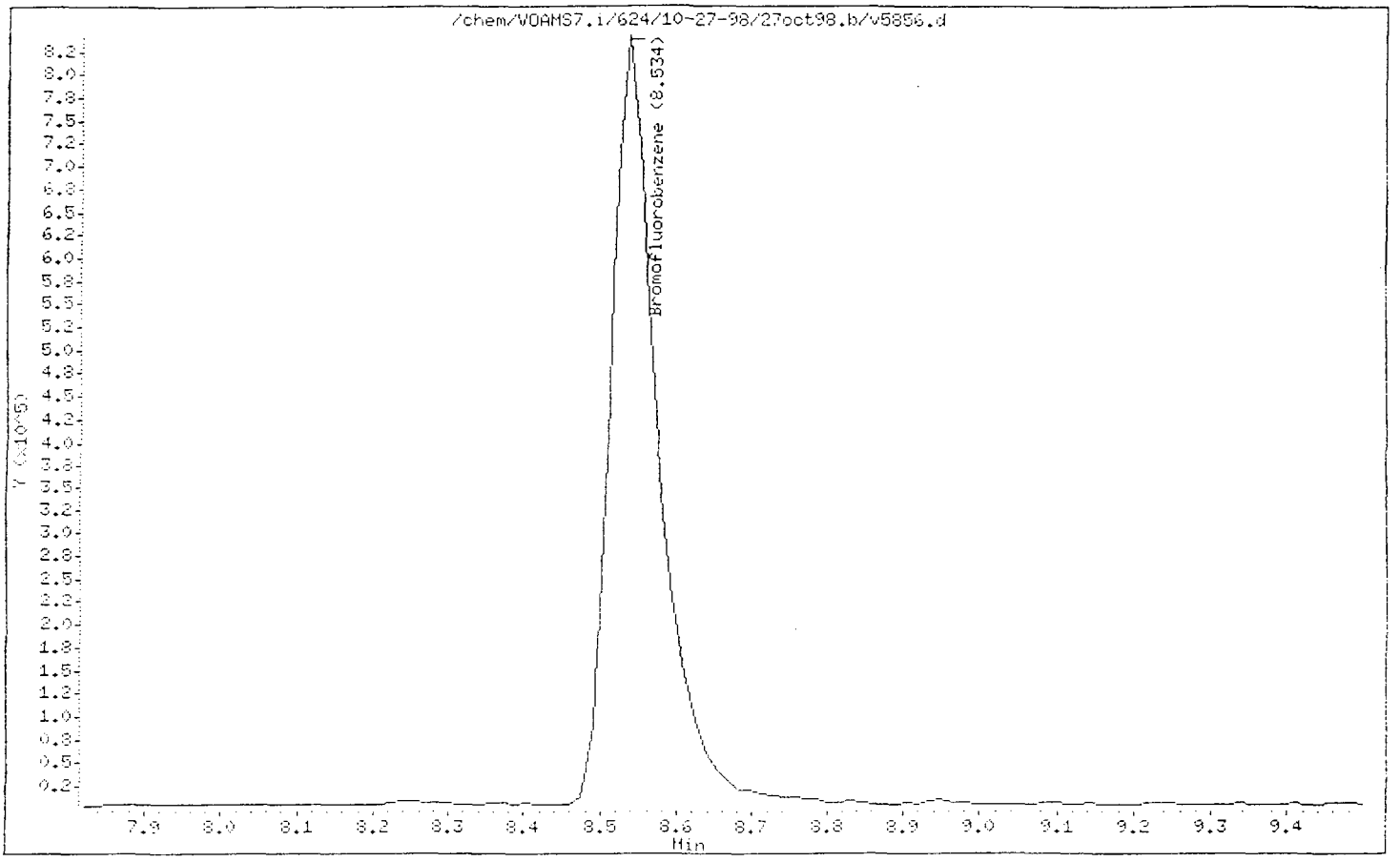
Instrument: VOAMS7.i

Sample Info: VBFB300 50ng

Operator: VOAMS 4

Column phase: DB-624

Column diameter: 0.53



305896

LAB SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VV296

Matrix: WATER

Date Analyzed: 10/23/98

Level: LOW

Time Analyzed: 1232

Lab File ID: V5736

Heated Purge (Y/N) N

Instrument ID: VOAMS7

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

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	TIME ANALYZED
01	DSRW-1	90839	V5769	0436
02	TRIP_BLANK	90840	V5770	0503
03				
04				
05				
06				
07				
08				
09				
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30				

COMMENTS:

Client ID: **VV296**
Site:

Lab Sample No: **VV296**
Lab Job No: I280

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/23/98
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v5736.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	0.9
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.4
Chloroethane	ND	1.0
Methylene Chloride	ND	1.0
Acetone	ND	5.0
Carbon Disulfide	ND	1.0
Trichlorofluoromethane	ND	0.2
1,1-Dichloroethene	ND	0.6
1,1-Dichloroethane	ND	0.3
trans-1,2-Dichloroethene	ND	0.3
cis-1,2-Dichloroethene	ND	1.0
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	0.2
Carbon Tetrachloride	ND	0.2
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.5
cis-1,3-Dichloropropene	ND	0.3
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.2
1,1,2-Trichloroethane	ND	0.4
Benzene	ND	0.2
trans-1,3-Dichloropropene	ND	0.3
2-Chloroethyl Vinyl Ether	ND	0.5
Bromoform	ND	0.3
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	0.1
1,1,2,2-Tetrachloroethane	ND	0.3
Toluene	ND	0.2
Chlorobenzene	ND	0.1
Ethylbenzene	ND	0.2

305898

Client ID: **VV296**
Site:

Lab Sample No: **VV296**
Lab Job No: I280

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/23/98
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v5736.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Styrene	ND	1.0
Xylene (Total)	ND	1.0
Ethyl Ether	ND	5.0
Acrolein	ND	50
Freon TF	ND	5.0
Isopropanol	ND	500
Acetonitrile	ND	100
TBA	ND	100
Acrylonitrile	ND	50
MTBE	ND	1.0
Hexane	ND	1.0
DIPE	ND	1.0
Ethyl Acetate	ND	10
Vinyl Acetate	ND	5.0
Tetrahydrofuran	ND	1.0
Cyclohexane	ND	5.0
Isobutanol	ND	500
Isopropyl Acetate	ND	5.0
n-Heptane	ND	1.0
n-Butanol	ND	250
Propyl Acetate	ND	5.0
Butyl Acetate	ND	5.0
1,2-Dibromoethane	ND	1.0
1,3-Dichlorobenzene	ND	0.3
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2
Naphthalene	ND	1.0
Methylnaphthalene (total)	ND	1.0
Dimethylnaphthalene (total)	ND	1.0
Dichlorodifluoromethane	ND	0.5
1,4-Dioxane	ND	1000
n-Pentane	ND	1.0
5-Methyl-2-Hexanone	ND	1.0
Isopropylbenzene	ND	1.0

305899

Client ID: **VV296**
Site:

Lab Sample No: **VV296**
Lab Job No: I280

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/23/98
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v5736.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
1,2,4-Trimethylbenzene	ND	1.0
Cyclohexanone	ND	100
1,2,4-Trichlorobenzene	ND	1.0
Methyl Methacrylate	ND	5.0
Allyl Alcohol	ND	1000
Epichlorohydrin	ND	100
Allyl Chloride	ND	5.0
Benzyl Chloride	ND	5.0
Isoprene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	1.0
Camphene (total)	ND	20
Camphor	ND	20
1,3,5-Trimethylbenzene	ND	1.0

305900

Client ID: **VV296**
Site:

Lab Sample No: **VV296**
Lab Job No: I280

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/23/98
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v5736.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
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30.			

TOTAL ESTIMATED CONCENTRATION 0.0

305901

Data File: /chem/VOAMS7.i/624/10-21-98/23oct98.b/v5736.d
Report Date: 23-Oct-98 15:12:17

Envirotech Research, Inc.

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-21-98/23oct98.b/v5736.d
Lab Smp Id: VV296
Inj Date : 23-OCT-98 12:32:00
Operator : VOAMS 7 Inst ID: VOAMS7.i
Smp Info : VV296
Misc Info :
Comment :
Method : /chem/VOAMS7.i/624/10-21-98/23oct98.b/new624.m
Meth Date : 23-Oct-98 11:03:03 Quant Type: ISTD
Cal Date : 21-OCT-98 13:08:00 Cal File: v5656.d
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: hpvoa

Concentration Formula: 5/Vo

Name	Value	Description
Vo	5.000	Sample Volume

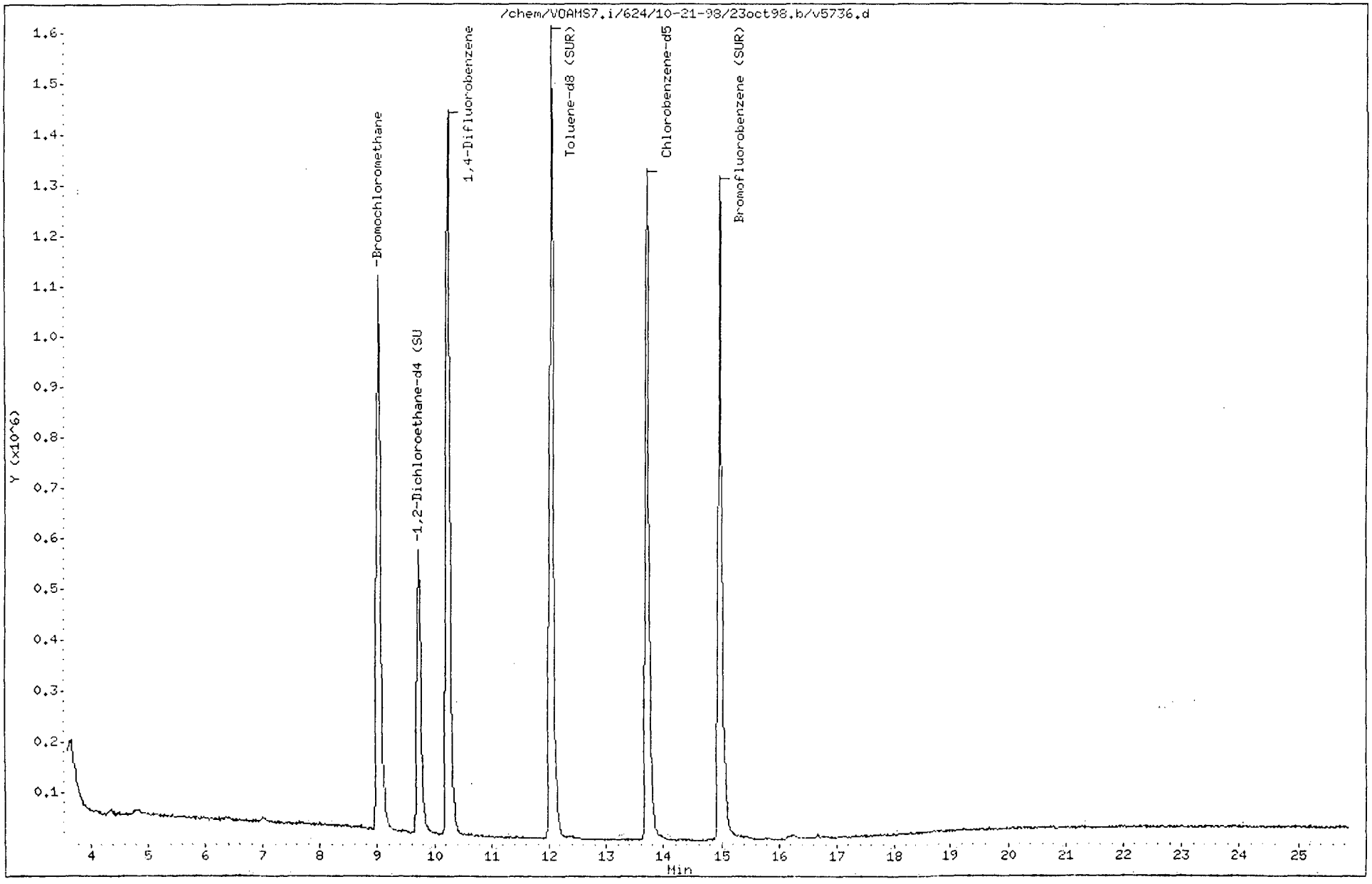
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 2 Bromochloromethane	128	9.020	8.885	(1.000)	766205	30	
$ 16 1,2-Dichloroethane-d4 (SUR)	104	9.732	9.612	(0.951)	153841	28	28
* 19 1,4-Difluorobenzene	114	10.236	10.146	(1.000)	2803965	30	
$ 37 Toluene-d8 (SUR)	98	12.030	11.984	(0.878)	2443311	30	30
* 32 Chlorobenzene-d5	117	13.706	13.675	(1.000)	1856877	30	
$ 41 Bromofluorobenzene (SUR)	174	14.981	14.950	(1.093)	1023875	28	28

305902

Data File: /chem/VOAMS7.i/624/10-21-98/23oct98.b/v5736.d
Date : 23-OCT-1998 12:32
Client ID: VV296
Sample Info: VV296
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAMS7.i
Operator: VOAMS 7
Column diameter: 0.53

305903



LAB SAMPLE NO.

VV300

VOLATILE METHOD BLANK SUMMARY

Matrix: WATER

Date Analyzed: 10/27/98

Level: LOW

Time Analyzed: 1544

Lab File ID: V5867

Heated Purge (Y/N) N

Instrument ID: VOAMS7

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

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	TIME ANALYZED
01	DSSR-1	90838	V5872	1819
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
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29				
30				

COMMENTS:

305904

Client ID: **VV300**
Site:

Lab Sample No: **VV300**
Lab Job No: I280

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/27/98
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v5867.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	0.9
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.4
Chloroethane	ND	1.0
Methylene Chloride	ND	1.0
Acetone	ND	5.0
Carbon Disulfide	ND	1.0
Trichlorofluoromethane	ND	0.2
1,1-Dichloroethene	ND	0.6
1,1-Dichloroethane	ND	0.3
trans-1,2-Dichloroethene	ND	0.3
cis-1,2-Dichloroethene	ND	1.0
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	0.2
Carbon Tetrachloride	ND	0.2
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.5
cis-1,3-Dichloropropene	ND	0.3
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.2
1,1,2-Trichloroethane	ND	0.4
Benzene	ND	0.2
trans-1,3-Dichloropropene	ND	0.3
2-Chloroethyl Vinyl Ether	ND	0.5
Bromoform	ND	0.3
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	0.1
1,1,2,2-Tetrachloroethane	ND	0.3
Toluene	ND	0.2
Chlorobenzene	ND	0.1
Ethylbenzene	ND	0.2

305905

Client ID: **VV300**
Site:

Lab Sample No: **VV300**
Lab Job No: I280

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/27/98
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v5867.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Styrene	ND	1.0
Xylene (Total)	ND	1.0
Ethyl Ether	ND	5.0
Acrolein	ND	50
Freon TF	ND	5.0
Isopropanol	ND	500
Acetonitrile	ND	100
TBA	ND	100
Acrylonitrile	ND	50
MTBE	ND	1.0
Hexane	ND	1.0
DIPE	ND	1.0
Ethyl Acetate	ND	10
Vinyl Acetate	ND	5.0
Tetrahydrofuran	ND	1.0
Cyclohexane	ND	5.0
Isobutanol	ND	500
Isopropyl Acetate	ND	5.0
n-Heptane	ND	1.0
n-Butanol	ND	250
Propyl Acetate	ND	5.0
Butyl Acetate	ND	5.0
1,2-Dibromoethane	ND	1.0
1,3-Dichlorobenzene	ND	0.3
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2
Naphthalene	ND	1.0
Methylnaphthalene (total)	ND	1.0
Dimethylnaphthalene (total)	ND	1.0
Dichlorodifluoromethane	ND	0.5
1,4-Dioxane	ND	1000
n-Pentane	ND	1.0
5-Methyl-2-Hexanone	ND	1.0
Isopropylbenzene	ND	1.0

305906

Client ID: **VV300**
Site:

Lab Sample No: **VV300**
Lab Job No: I280

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/27/98
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v5867.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
1,2,4-Trimethylbenzene	ND	1.0
Cyclohexanone	ND	100
1,2,4-Trichlorobenzene	ND	1.0
Methyl Methacrylate	ND	5.0
Allyl Alcohol	ND	1000
Epichlorohydrin	ND	100
Allyl Chloride	ND	5.0
Benzyl Chloride	ND	5.0
Isoprene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	1.0
Camphene (total)	ND	20
Camphor	ND	20
1,3,5-Trimethylbenzene	ND	1.0

305907

Client ID: **VV300**
Site:

Lab Sample No: **VV300**
Lab Job No: I280

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/27/98
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v5867.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
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7.			
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TOTAL ESTIMATED CONCENTRATION 0.0

305908

Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5867.d
Report Date: 27-Oct-98 16:13:56

Envirotech Research, Inc.

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5867.d
Lab Smp Id: VV300 Client Smp ID: VV300
Inj Date : 27-OCT-98 15:44:00
Operator : VOAMS 7 Inst ID: VOAMS7.i
Smp Info : VV300
Misc Info :
Comment :
Method : /chem/VOAMS7.i/624/10-27-98/27oct98.b/new624.m
Meth Date : 27-Oct-98 13:52:52 dave Quant Type: ISTD
Cal Date : 27-OCT-98 13:26:00 Cal File: v5863.d
Als bottle: 10 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: hpvoa

Concentration Formula: 5/Vo

Name	Value	Description
Vo	5.000	Sample Volume

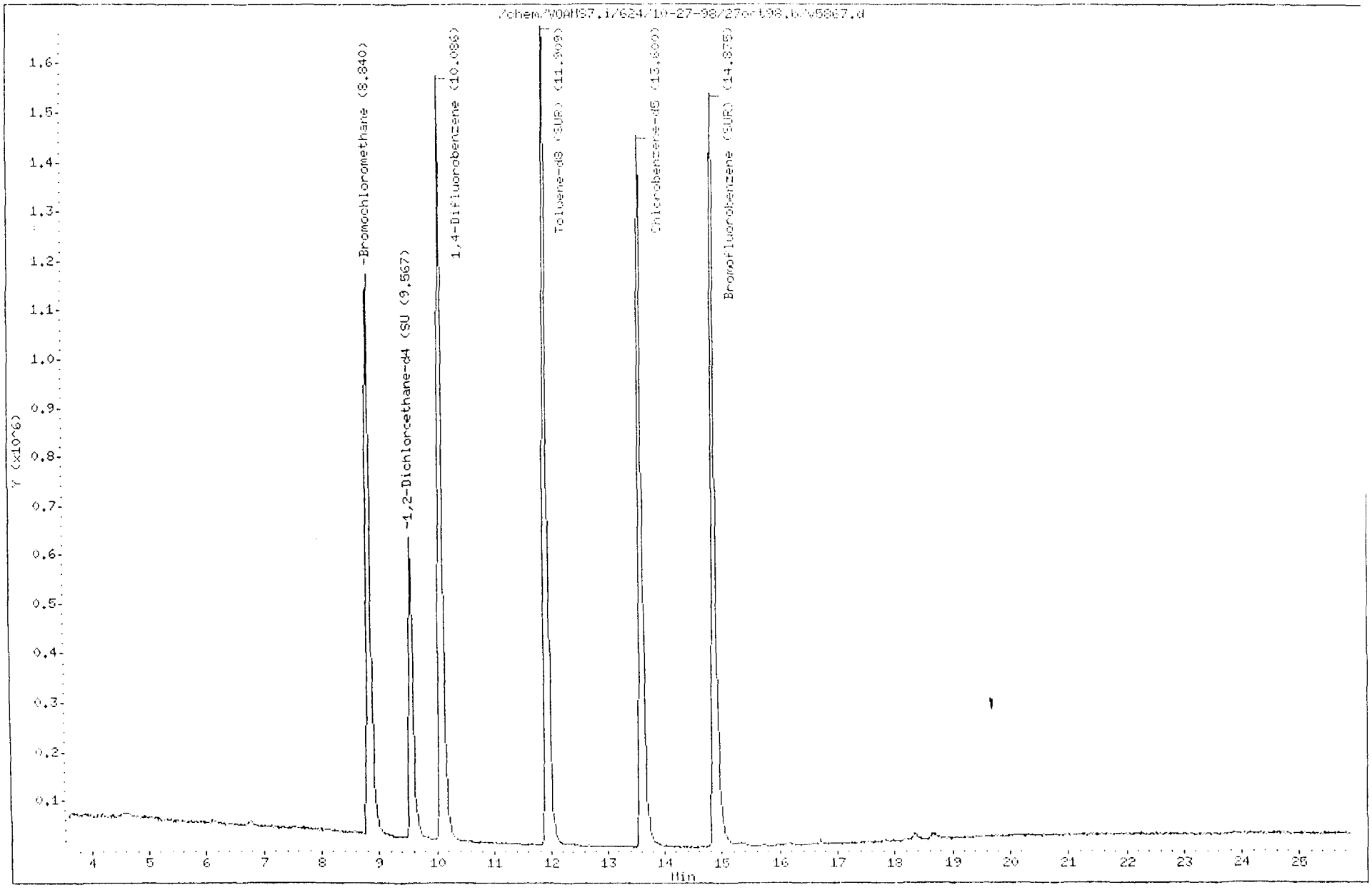
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 2 Bromochloromethane	128	8.840	8.812	(1.000)	609520	30	
$ 16 1,3-Dichloromethane-d4 (SUR)	104	9.567	9.539	(0.949)	175748	29	29
* 19 1,4-Difluorobenzene	114	10.086	10.072	(1.000)	3018002	30	
$ 37 Toluene-d8 (SUR)	98	11.924	11.896	(0.877)	2680562	29	29
* 38 Chlorobenzene-d5	117	13.600	13.601	(1.000)	2070998	30	
$ 41 Bromofluorobenzene (SUR)	174	14.875	14.861	(1.094)	1191331	28	28

305909

Data File: /chem/VOAHS7.i/624/10-27-98/27oct98.b/v5867.d
Date : 27-OCT-98 15:44:00
Client ID: VV300
Sample Info: VV300
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAHS7.i
Operator: VOAHS 7
Column diameter: 0.53

305910



VOLATILE ORGANICS INITIAL CALIBRATION DATA
METHOD 624

Instrument ID: VOAMS7 Calibration Date(s): 10/21/98 10/21/98

Heated Purge: (Y/N) N Calibration Time(s): 1117 1308

LAB FILE ID: RRF5: V5656 RRF10: V5655 RRF20: V5654
RRF50: V5653 RRF200: V5652

COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF200
Chloromethane	1.100	1.020	0.998	1.095	1.083
Bromomethane	0.638	0.595	0.569	0.588	0.464
Vinyl Chloride	0.892	0.835	0.870	0.907	0.908
Chloroethane	0.415	0.405	0.382	0.418	0.394
Methylene Chloride	1.841	1.563	1.487	1.568	1.445
Acetone	0.540	0.480	0.374	0.332	0.307
Carbon Disulfide	0.533	0.517	0.521	0.572	0.523
Trichlorofluoromethane	0.889	0.893	0.984	1.092	0.976
1,1-Dichloroethene	1.521	1.471	1.426	1.525	1.327
1,1-Dichloroethane	3.126	2.870	2.948	3.110	2.990
trans-1,2-Dichloroethene	1.684	1.541	1.588	1.673	1.508
cis-1,2-Dichloroethene	1.739	1.613	1.656	1.720	1.614
Chloroform	3.297	2.954	3.113	3.218	3.094
1,2-Dichloroethane	0.551	0.518	0.523	0.522	0.538
2-Butanone	0.214	0.144	0.127	0.113	0.102
1,1,1-Trichloroethane	2.449	2.341	2.380	2.556	2.406
Carbon Tetrachloride	2.470	2.402	2.423	2.642	2.508
Bromodichloromethane	0.780	0.729	0.757	0.778	0.834
1,2-Dichloropropane	0.452	0.413	0.419	0.412	0.450
cis-1,3-Dichloropropene	0.596	0.556	0.580	0.590	0.663
Trichloroethene	0.539	0.506	0.511	0.520	0.533
Dibromochloromethane	0.918	0.789	1.036	1.017	1.046
1,1,2-Trichloroethane	0.473	0.402	0.509	0.479	0.483
Benzene	1.084	1.030	1.029	1.042	1.061
trans-1,3-Dichloropropene	0.670	0.566	0.765	0.720	0.769
2-Chloroethyl Vinyl Ether	0.198	0.206	0.226	0.236	0.251
Bromoform	0.618	0.537	0.730	0.709	0.745
4-Methyl-2-Pentanone	0.281	0.249	0.257	0.272	0.330
2-Hexanone	0.183	0.174	0.234	0.234	0.250
Tetrachloroethene	0.925	0.782	1.006	0.967	0.919
1,1,2,2-Tetrachloroethane	0.708	0.584	0.749	0.712	0.709
Toluene	1.721	1.434	1.796	1.758	1.670
Chlorobenzene	1.280	1.081	1.392	1.357	1.328
Ethylbenzene	0.519	0.470	0.589	0.567	0.558
Styrene	1.053	0.909	1.200	1.174	1.203
Xylene (Total)	0.745	0.624	0.793	0.771	0.769
Ethyl Ether	1.023	0.949	0.980	1.012	0.918
Acrolein	0.083	0.083	0.083	0.092	0.089
Freon TF	3.021	3.098	3.088	3.446	2.889

305911

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS7 Calibration Date(s): 10/21/98 10/21/98

Heated Purge: (Y/N) N Calibration Time(s): 1117 1308

LAB FILE ID: RRF5: V5656 RRF10: V5655 RRF20: V5654
RRF50: V5653 RRF200: V5652

COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF200
Isopropanol					
Acetonitrile	0.089	0.085	0.086	0.092	0.094
TBA	0.077	0.069	0.068	0.072	0.074
Acrylonitrile	0.238	0.239	0.246	0.258	0.289
MTBE	3.182	2.853	2.911	2.998	2.870
Hexane					
DIPE	5.636	5.372	5.594	5.943	5.865
Ethyl Acetate	1.049	0.862	0.786	0.782	0.794
Vinyl Acetate	2.840	2.716	2.766	2.873	2.780
Tetrahydrofuran					
Cyclohexane	2.150	2.103	2.182	2.488	2.408
Isobutanol					
Isopropyl Acetate	0.621	0.668	0.675	0.669	0.714
n-Heptane					
n-Butanol					
Propyl Acetate	0.331	0.320	0.311	0.295	0.305
Butyl Acetate	0.453	0.360	0.483	0.502	0.537
1,2-Dibromoethane	0.789	0.674	0.854	0.842	0.860
1,3-Dichlorobenzene	0.981	0.807	1.062	0.986	1.027
1,4-Dichlorobenzene	1.266	1.089	1.402	1.411	1.387
1,2-Dichlorobenzene	0.966	0.838	1.077	1.008	0.963
Naphthalene	1.138	0.793	1.076	0.897	0.376
Methylnaphthalene (total)					
Dimethylnaphthalene (total)					
Dichlorodifluoromethane	1.847	2.137	2.258	2.366	2.216
1,4-Dioxane	0.002	0.002	0.002	0.002	0.002
n-Pentane					
5-Methyl-2-Hexanone					
Isopropylbenzene					
1,2,4-Trimethylbenzene					
Cyclohexanone					
1,2,4-Trichlorobenzene	0.742	0.564	0.689	0.617	0.461
Methyl Methacrylate	0.089	0.087	0.092	0.091	0.097
Allyl Alcohol	0.009	0.008	0.009	0.009	0.010
Epichlorohydrin	0.028	0.026	0.027	0.028	0.031
Allyl Chloride	4.132	3.929	4.095	4.392	4.117
Benzyl Chloride	0.672	0.626	0.822	0.800	0.759
Isoprene	1.286	1.326	1.386	1.508	1.294
1,1,1,2-Tetrachloroethane	0.700	0.599	0.754	0.728	0.721

305912

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS7 Calibration Date(s): 10/21/98 10/21/98

Heated Purge: (Y/N) N Calibration Time(s): 1117 1308

LAB FILE ID: RRF5: V5656 RRF10: V5655 RRF20: V5654
RRF50: V5653 RRF200: V5652

COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF200
Camphene (total)					
Camphor					
1,3,5-Trimethylbenzene					
1,2-Dichloroethane-d4 (SUR)	0.058	0.058	0.056	0.057	0.062
Toluene-d8 (SUR)	1.218	1.113	1.419	1.393	1.348
Bromofluorobenzene (SUR)	0.542	0.494	0.628	0.607	0.671

305913

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS7 Calibration Date(s): 10/21/98 10/21/98

Heated Purge: (Y/N) N Calibration Time(s): 1117 1308

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Chloromethane	AVRG	1.05924961	4.4*
Bromomethane	AVRG	0.57088414	11.4*
Vinyl Chloride	AVRG	0.88236841	3.5*
Chloroethane	AVRG	0.40278923	3.7*
Methylene Chloride	AVRG	1.58086629	9.8*
Acetone	AVRG	0.40652011	24.5*
Carbon Disulfide	AVRG	0.53323142	4.2*
Trichlorofluoromethane	AVRG	0.96693592	8.6*
1,1-Dichloroethene	AVRG	1.45409753	5.6*
1,1-Dichloroethane	AVRG	3.00868847	3.6*
trans-1,2-Dichloroethene	AVRG	1.59898046	4.9*
cis-1,2-Dichloroethene	AVRG	1.66833828	3.5*
Chloroform	AVRG	3.13529487	4.2*
1,2-Dichloroethane	AVRG	0.53036969	2.6*
2-Butanone	AVRG	0.14012500	31.8*
1,1,1-Trichloroethane	AVRG	2.42632564	3.4*
Carbon Tetrachloride	AVRG	2.48921918	3.8*
Bromodichloromethane	AVRG	0.77539797	5.0*
1,2-Dichloropropane	AVRG	0.42933133	4.7*
cis-1,3-Dichloropropene	AVRG	0.59686329	6.7*
Trichloroethene	AVRG	0.52175203	2.7*
Dibromochloromethane	AVRG	0.96157253	11.3*
1,1,2-Trichloroethane	AVRG	0.46912795	8.5*
Benzene	AVRG	1.04938261	2.2*
trans-1,3-Dichloropropene	AVRG	0.69833896	12.0*
2-Chloroethyl Vinyl Ether	AVRG	0.22355720	9.6*
Bromoform	AVRG	0.66777467	13.2*
4-Methyl-2-Pentanone	AVRG	0.27801804	11.3*
2-Hexanone	AVRG	0.21496123	15.7*
Tetrachloroethene	AVRG	0.91956237	9.2*
1,1,2,2-Tetrachloroethane	AVRG	0.69236304	9.1*
Toluene	AVRG	1.67590401	8.5*
Chlorobenzene	AVRG	1.28771052	9.5*
Ethylbenzene	AVRG	0.54052420	8.6*
Styrene	AVRG	1.10793674	11.5*
Xylene (Total)	AVRG	0.74045827	9.1*
Ethyl Ether	AVRG	0.97655577	4.5*
Acrolein	AVRG	0.08596880	4.8*
Freon TF	AVRG	3.10857934	6.6*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

305914

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS7 Calibration Date(s): 10/21/98 10/21/98

Heated Purge: (Y/N) N Calibration Time(s): 1117 1308

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Isopropanol	AVRG		
Acetonitrile	AVRG	0.08927730	4.2*
TBA	AVRG	0.07210118	5.4*
Acrylonitrile	AVRG	0.25391820	8.4*
MTBE	AVRG	2.96284842	4.5*
Hexane	AVRG		
DIPE	AVRG	5.68223475	4.0*
Ethyl Acetate	AVRG	0.85470015	13.3*
Vinyl Acetate	AVRG	2.79506284	2.2*
Tetrahydrofuran	AVRG		
Cyclohexane	AVRG	2.26630423	7.5*
Isobutanol	AVRG		
Isopropyl Acetate	AVRG	0.66929950	4.9*
n-Heptane	AVRG		
n-Butanol	AVRG		
Propyl Acetate	AVRG	0.31255426	4.4*
Butyl Acetate	AVRG	0.46700002	14.4*
1,2-Dibromoethane	AVRG	0.80368208	9.6*
1,3-Dichlorobenzene	AVRG	0.97257236	10.1*
1,4-Dichlorobenzene	AVRG	1.31110945	10.5*
1,2-Dichlorobenzene	AVRG	0.97056727	9.0*
Naphthalene	AVRG	0.85607110	35.2*
Methylnaphthalene (total)	AVRG		
Dimethylnaphthalene (total)	AVRG		
Dichlorodifluoromethane	AVRG	2.16483684	9.0**
1,4-Dioxane	AVRG	0.00233013	5.3*
n-Pentane	AVRG		
5-Methyl-2-Hexanone	AVRG		
Isopropylbenzene	AVRG		
1,2,4-Trimethylbenzene	AVRG		
Cyclohexanone	AVRG		
1,2,4-Trichlorobenzene	AVRG	0.61469466	17.8**
Methyl Methacrylate	AVRG	0.09131257	4.2*
Allyl Alcohol	AVRG	0.00885177	7.8*
Epichlorohydrin	AVRG	0.02810716	6.6**
Allyl Chloride	AVRG	4.13299485	4.0**
Benzyl Chloride	AVRG	0.73603169	11.4**
Isoprene	AVRG	1.36019663	6.7**
1,1,1,2-Tetrachloroethane	AVRG	0.70054128	8.5**

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

305915

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS7 Calibration Date(s): 10/21/98 10/21/98

Heated Purge: (Y/N) N Calibration Time(s): 1117 1308

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Camphene (total)	AVRG		
Camphor	AVRG		
1,3,5-Trimethylbenzene	AVRG		
1,2-Dichloroethane-d4 (SUR)	AVRG	0.05835236	4.3*
Toluene-d8 (SUR)	AVRG	1.29813577	9.9*
Bromofluorobenzene (SUR)	AVRG	0.58835092	11.9*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

305916

Data File: /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5652.d
Report Date: 22-Oct-98 15:07:33

Envirotech Research, Inc.

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5652.d
Lab Smp Id: VSTD200
Inj Date : 21-OCT-98 11:17:00
Operator : VOAMS 7 Inst ID: VOAMS7.i
Smp Info : VSTD200
Misc Info :
Comment :
Method : /chem/VOAMS7.i/624/10-21-98/21oct98.b/new624.m
Meth Date : 22-Oct-98 11:26:23 dave Quant Type: ISTD
Cal Date : 21-OCT-98 11:17:00 Cal File: v5652.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: hpvoa

Concentration Formula: 5/Vo

Name	Value	Description
Vo	5.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
98 Dichlorodifluoromethane	85	3.888	3.725	(0.433)	11896789	200	200
1 Chloromethane	50	4.170	3.948	(0.465)	5814884	200	200(H)
4 Vinyl Chloride	62	4.422	4.185	(0.493)	4874214	200	200(H)
3 Bromomethane	94	4.882	4.674	(0.544)	2489403	200	200(A)
5 Chloroethane	64	5.015	4.822	(0.559)	2117313	200	200(A)
9 Trichlorofluoromethane	101	5.534	5.297	(0.617)	5242536	200	200(A)
101 n-Pentane	72	5.608	5.608	(0.625)	1597568	200	(a)
46 Ethyl Ether	59	5.905	5.727	(0.658)	4929709	200	200
113 Isoprene	67	5.949	5.771	(0.663)	6949347	200	200(MH)
47 Acrolein	56	6.098	5.920	(0.679)	1196911	500	500(AH)
48 Freon TF	101	6.276	6.098	(0.699)	15508898	200	200
10 1,1-Dichloroethene	96	6.305	6.098	(0.703)	7122700	200	200(A)
7 Acetone	43	6.320	6.142	(0.704)	1650063	200	200
50 Acetonitrile	39	6.765	6.587	(0.754)	10067632	4000	4000(A)
111 Allyl Chloride	76	6.750	6.542	(0.752)	22103665	200	200(A)
8 Carbon Disulfide	78	6.750	6.587	(0.752)	2807790	200	200(A)
6 Methylene Chloride	84	6.943	6.780	(0.774)	7759584	200	200
51 TBA	59	7.091	6.913	(0.790)	7972081	4000	4000

305917

Data File: /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5652.d
Report Date: 22-Oct-98 15:07:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	52 Acrylonitrile	53	7.239	7.076	(0.807)	1940177	250	250
	53 MTBE	73	7.314	7.165	(0.815)	15409619	200	200
	12 trans-1,2-Dichloroethene	96	7.328	7.180	(0.817)	8094546	200	200(H)
	109 Allyl Alcohol	57	7.922	7.847	(0.883)	1278415	5000	5000
	11 1,1-Dichloroethane	63	7.892	7.758	(0.879)	16051392	200	200
	57 Vinyl Acetate	43	7.936	7.803	(0.884)	14922332	200	200
	55 DIPE	45	7.936	7.803	(0.884)	31485844	200	200
	18 2-Butanone	72	8.618	8.529	(0.960)	549241	200	200(A)
	13 cis-1,2-Dichloroethene	96	8.663	8.574	(0.965)	8665455	200	200
	56 Ethyl Acetate	43	8.663	8.574	(0.965)	8526839	400	400
*	2 Bromochloromethane	128	8.974	8.885	(1.000)	805260	30	
	15 Chloroform	83	9.048	8.959	(1.008)	16612328	200	200
	20 1,1,1-Trichloroethane	97	9.345	9.256	(1.041)	12914102	200	200
	59 Cyclohexane	56	9.434	9.375	(1.051)	12924461	200	200(M)
	21 Carbon Tetrachloride	117	9.567	9.478	(1.066)	13462470	200	200(A)
$	16 1,2-Dichloroethane-d4 (SUR)	104	9.686	9.612	(0.949)	187808	30	30
	61 Isopropyl Acetate	43	9.731	9.671	(0.954)	28578085	400	400
	17 1,2-Dichloroethane	62	9.775	9.716	(0.958)	10757256	200	200(A)
	28 Benzene	78	9.805	9.730	(0.961)	21242305	200	200(A)
*	19 1,4-Difluorobenzene	114	10.205	10.146	(1.000)	3001948	30	
	25 Trichloroethene	95	10.561	10.516	(1.035)	10663624	200	200
	23 1,2-Dichloropropane	63	10.828	10.783	(1.061)	9002716	200	200(A)
	108 Methyl Methacrylate	100	10.872	10.843	(1.065)	1944048	200	200(H)
	64 Propyl Acetate	43	10.917	10.902	(1.070)	12213110	400	400
	100 1,4-Dioxane	88	10.961	10.917	(1.074)	1186590	5000	5000
	22 Bromodichloromethane	83	11.139	11.109	(1.092)	16682746	200	200
	30 2-Chloroethyl Vinyl Ether	63	11.436	11.406	(1.121)	5016319	200	200
	110 Epichlorohydrin	57	11.540	11.510	(1.131)	12406492	4000	4000(AH)
	24 cis-1,3-Dichloropropene	75	11.658	11.628	(1.142)	13262289	200	200
	33 4-Methyl-2-Pentanone	43	11.792	11.762	(1.155)	6598006	200	200
$	37 Toluene-d8 (SUR)	98	12.014	11.984	(0.871)	2880455	30	30
	38 Toluene	91	12.088	12.058	(0.876)	23794156	200	200(A)
	29 trans-1,3-Dichloropropene	75	12.281	12.266	(0.890)	10963968	200	200(A)
	27 1,1,2-Trichloroethane	83	12.518	12.503	(0.908)	6879775	200	200(A)
	35 Tetrachloroethene	166	12.755	12.741	(0.925)	13093734	200	200
	34 2-Hexanone	43	12.741	12.741	(0.924)	3557346	200	200(AH)
	65 Butyl Acetate	43	12.844	12.844	(0.931)	15295939	400	400(A)
	26 Dibromochloromethane	129	13.022	13.007	(0.944)	14910408	200	200(A)
	66 1,2-Dibromoethane	107	13.185	13.171	(0.956)	12248343	200	200
*	32 Chlorobenzene-d5	117	13.690	13.675	(1.000)	2137444	30	(H)
	39 Chlorobenzene	112	13.719	13.704	(0.995)	18919558	200	200
	114 1,1,1,2-Tetrachloroethane	131	13.793	13.778	(1.000)	10277767	200	200(A)
	40 Ethylbenzene	106	13.808	13.793	(1.001)	7949215	200	200(H)
	43 m+p-Xylene	106	13.927	13.912	(1.010)	22668761	400	400
	44 o-Xylene	106	14.372	14.372	(1.042)	10224945	200	200
	42 Styrene	104	14.387	14.372	(1.043)	17148300	200	200
	31 Bromoform	173	14.639	14.639	(1.061)	10620428	200	200

305918

Data File: /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5652.d
Report Date: 22-Oct-98 15:07:33

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
115 Camphene (total)	121	14.891	14.891	(1.080)	6981	500	(a)
$ 41 Bromofluorobenzene (SUR)	174	14.950	14.950	(1.084)	1433680	30	30(H)
36 1,1,2,2-Tetrachloroethane	83	15.039	15.039	(1.090)	10099442	200	200
67 1,3-Dichlorobenzene	146	16.121	16.136	(1.169)	14629427	200	200(AH)
68 1,4-Dichlorobenzene	146	16.210	16.210	(1.175)	19765318	200	200(A)
112 Benzyl Chloride	91	16.314	16.329	(1.183)	10817962	200	200
69 1,2-Dichlorobenzene	146	16.626	16.640	(1.205)	13728071	200	200
107 1,2,4-Trichlorobenzene	180	18.405	18.420	(1.334)	6572219	200	200
70 Naphthalene	128	18.731	18.731	(1.358)	5353855	200	200(A)
M 14 1,2-Dichloroethene (total)	100				16760001	400	400
M 45 Xylene (Total)	100				32893706	600	600(A)

QC Flag Legend

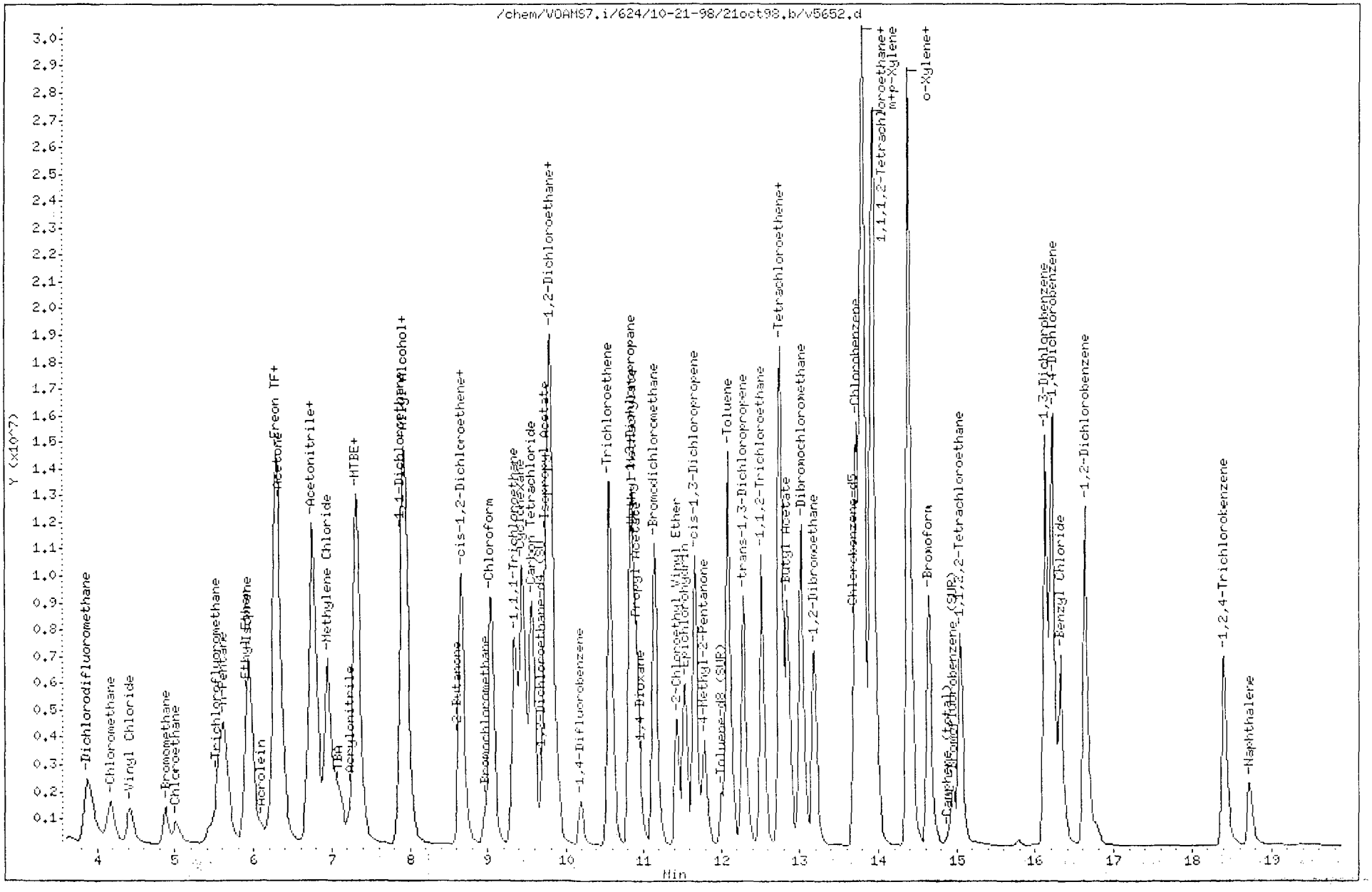
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

305919

Data File: /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5652.d
Date : 21-OCT-1998 11:17
Client ID:
Sample Info: VSTD200
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAMS7.i
Operator: VOAMS 7
Column diameter: 0.53

305920



Data File: /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5653.d
Report Date: 22-Oct-98 15:07:41

Envirotech Research, Inc.

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5653.d
Lab Smp Id: VSTD050
Inj Date : 21-OCT-98 11:44:00
Operator : VOAMS 7 Inst ID: VOAMS7.i
Smp Info : VSTD050
Misc Info :
Comment :
Method : /chem/VOAMS7.i/624/10-21-98/21oct98.b/new624.m
Meth Date : 22-Oct-98 11:26:23 dave Quant Type: ISTD
Cal Date : 21-OCT-98 11:44:00 Cal File: v5653.d
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: hpvoa

Concentration Formula: 5/Vo

Name	Value	Description
Vo	5.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
98 Dichlorodifluoromethane	85	3.904	3.725	(0.435)	3057240	50	52
1 Chloromethane	50	4.171	3.948	(0.465)	1414495	50	50
4 Vinyl Chloride	62	4.423	4.185	(0.493)	1171860	50	50
3 Bromomethane	94	4.898	4.674	(0.546)	760121	50	56
5 Chloroethane	64	5.031	4.822	(0.561)	540853	50	51
9 Trichlorofluoromethane	101	5.535	5.297	(0.617)	1410991	50	53(M)
46 Ethyl Ether	59	5.921	5.727	(0.660)	1308175	50	52
113 Isoprene	67	5.965	5.771	(0.665)	1948785	50	54
47 Acrolein	56	6.114	5.920	(0.681)	946031	400	400(A)
48 Freon TF	101	6.292	6.098	(0.701)	4453260	50	54
10 1,1-Dichloroethene	96	6.321	6.098	(0.704)	1970368	50	53
7 Acetone	43	6.336	6.142	(0.706)	428398	50	52
50 Acetonitrile	39	6.781	6.587	(0.755)	2391165	1000	990
111 Allyl Chloride	76	6.751	6.542	(0.752)	5675598	50	52
8 Carbon Disulfide	78	6.766	6.587	(0.754)	739162	50	52
6 Methylene Chloride	84	6.959	6.780	(0.775)	2025944	50	52
51 TBA	59	7.092	6.913	(0.790)	1859443	1000	980
52 Acrylonitrile	53	7.241	7.076	(0.807)	1332412	200	190

305921

Data File: /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5653.d
Report Date: 22-Oct-98 15:07:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	53 MTBE	73	7.315	7.165	(0.815)	3874066	50	51
	12 trans-1,2-Dichloroethene	96	7.330	7.180	(0.817)	2162444	50	53
	109 Allyl Alcohol	57	7.938	7.847	(0.884)	961114	4000	4000
	11 1,1-Dichloroethane	63	7.893	7.758	(0.879)	4018250	50	51
	57 Vinyl Acetate	43	7.938	7.803	(0.884)	3712317	50	51
	55 DIPE	45	7.938	7.803	(0.884)	7680296	50	50
	18 2-Butanone	72	8.649	8.529	(0.964)	145745	50	52
	13 cis-1,2-Dichloroethene	96	8.664	8.574	(0.965)	2222972	50	52
	56 Ethyl Acetate	43	8.679	8.574	(0.967)	2020504	100	99
*	2 Bromochloromethane	128	8.976	8.885	(1.000)	775339	30	
	15 Chloroform	83	9.050	8.959	(1.008)	4158992	50	51
	20 1,1,1-Trichloroethane	97	9.346	9.256	(1.041)	3303009	50	52
	59 Cyclohexane	56	9.450	9.375	(1.053)	3214779	50	51
	21 Carbon Tetrachloride	117	9.569	9.478	(1.066)	3414808	50	51
$	16 1,2-Dichloroethane-d4 (SUR)	104	9.702	9.612	(0.951)	174780	30	29
	61 Isopropyl Acetate	43	9.747	9.671	(0.955)	6783030	100	97
	17 1,2-Dichloroethane	62	9.791	9.716	(0.959)	2646794	50	49
	28 Benzene	78	9.806	9.730	(0.961)	5287523	50	50
*	19 1,4-Difluorobenzene	114	10.206	10.146	(1.000)	3043485	30	
	25 Trichloroethene	95	10.577	10.516	(1.036)	2638559	50	49
	23 1,2-Dichloropropane	63	10.844	10.783	(1.062)	2090278	50	48
	108 Methyl Methacrylate	100	10.874	10.843	(1.065)	460416	50	48
	64 Propyl Acetate	43	10.933	10.902	(1.071)	2994798	100	98
	100 1,4-Dioxane	88	10.963	10.917	(1.074)	944861	4000	4000
	22 Bromodichloromethane	83	11.155	11.109	(1.093)	3945902	50	48
	30 2-Chloroethyl Vinyl Ether	63	11.437	11.406	(1.121)	1199321	50	48
	110 Epichlorohydrin	57	11.541	11.510	(1.131)	2849411	1000	950
	24 cis-1,3-Dichloropropene	75	11.674	11.628	(1.144)	2990445	50	47
	33 4-Methyl-2-Pentanone	43	11.793	11.762	(1.155)	1381736	50	45
$	37 Toluene-d8 (SUR)	98	12.015	11.984	(0.878)	2769887	30	30
	38 Toluene	91	12.089	12.058	(0.883)	5827784	50	51
	29 trans-1,3-Dichloropropene	75	12.282	12.266	(0.897)	2388168	50	48
	27 1,1,2-Trichloroethane	83	12.519	12.503	(0.914)	1586852	50	50
	35 Tetrachloroethene	166	12.757	12.741	(0.932)	3205021	50	51
	34 2-Hexanone	43	12.742	12.741	(0.931)	774720	50	48
	65 Butyl Acetate	43	12.846	12.844	(0.938)	3331196	100	97
	26 Dibromochloromethane	129	13.024	13.007	(0.951)	3370945	50	49
	66 1,2-Dibromoethane	107	13.187	13.171	(0.963)	2790897	50	49
*	32 Chlorobenzene-d5	117	13.691	13.675	(1.000)	1988723	30	
	39 Chlorobenzene	112	13.721	13.704	(1.002)	4499128	50	50
	114 1,1,1,2-Tetrachloroethane	131	13.795	13.778	(1.008)	2414747	50	50
	40 Ethylbenzene	106	13.809	13.793	(1.009)	1878897	50	50
	43 m+p-Xylene	106	13.928	13.912	(1.017)	5279015	100	100
	44 o-Xylene	106	14.373	14.372	(1.050)	2386729	50	50
	42 Styrene	104	14.388	14.372	(1.051)	3892334	50	49
	31 Bromoform	173	14.640	14.639	(1.069)	2349281	50	49
$	41 Bromofluorobenzene (SUR)	174	14.966	14.950	(1.093)	1207037	30	28

305922

Data File: /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5653.d
Report Date: 22-Oct-98 15:07:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
36 1,1,2,2-Tetrachloroethane	83	15.055	15.039	(1.100)	2359594	50	50
67 1,3-Dichlorobenzene	146	16.123	16.136	(1.178)	3268466	50	49
68 1,4-Dichlorobenzene	146	16.212	16.210	(1.184)	4678156	50	50
112 Benzyl Chloride	91	16.315	16.329	(1.192)	2652292	50	51
69 1,2-Dichlorobenzene	146	16.627	16.640	(1.214)	3340972	50	51
107 1,2,4-Trichlorobenzene	180	18.406	18.420	(1.344)	2046077	50	57
70 Naphthalene	128	18.732	18.731	(1.368)	2973514	50	70
M 14 1,2-Dichloroethene (total)	100				4385416	100	100
M 45 Xylene (Total)	100				7665744	150	150

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

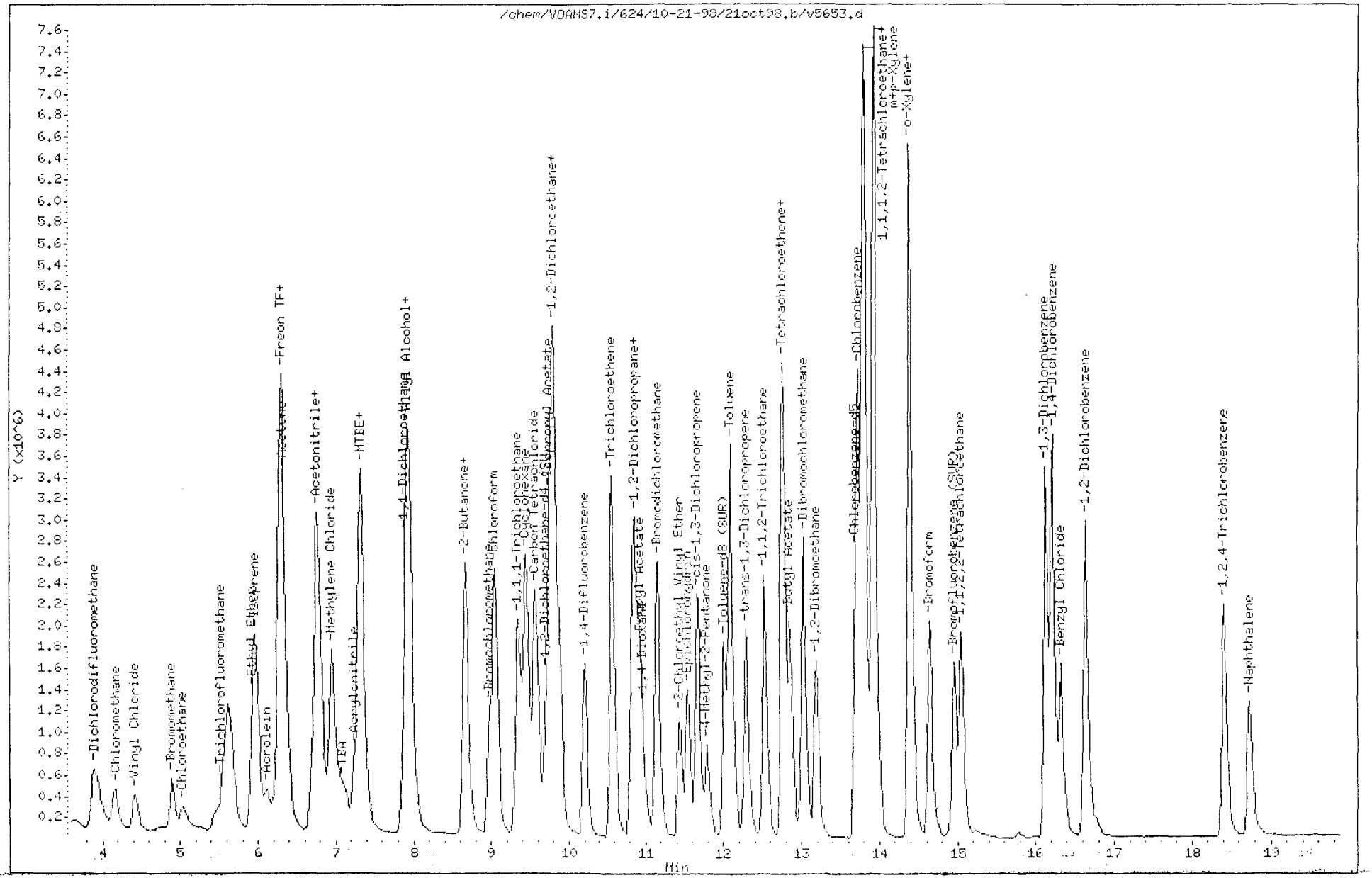
305923

Data File: /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5653.d
Date : 21-OCT-1998 11:44
Client ID:
Sample Info: VSTD050
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAMS7.i
Operator: VOAMS 7
Column diameter: 0.53

305924

80



Data File: /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5654.d
Report Date: 22-Oct-98 15:07:47

Envirotech Research, Inc.

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5654.d
Lab Smp Id: VSTD020
Inj Date : 21-OCT-98 12:12:00
Operator : VOAMS 7 Inst ID: VOAMS7.i
Smp Info : VSTD020
Misc Info :
Comment :
Method : /chem/VOAMS7.i/624/10-21-98/21oct98.b/new624.m
Meth Date : 22-Oct-98 11:26:23 dave Quant Type: ISTD
Cal Date : 21-OCT-98 12:12:00 Cal File: v5654.d
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: hpvoa

Concentration Formula: 5/Vo

Name	Value	Description
Vo	5.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
98 Dichlorodifluoromethane	85	3.817	3.725	(0.428)	1193425	20	20
1 Chloromethane	50	4.054	3.948	(0.455)	527619	20	19
4 Vinyl Chloride	62	4.306	4.185	(0.483)	459975	20	19
3 Bromomethane	94	4.780	4.674	(0.536)	300515	20	21
5 Chloroethane	64	4.929	4.822	(0.553)	201674	20	19
9 Trichlorofluoromethane	101	5.433	5.297	(0.609)	520094	20	19
46 Ethyl Ether	59	5.818	5.727	(0.652)	517579	20	20
113 Isoprene	67	5.848	5.771	(0.656)	732410	20	20
47 Acrolein	56	5.996	5.920	(0.672)	660467	300	280
48 Freon TF	101	6.174	6.098	(0.692)	1631940	20	20
10 1,1-Dichloroethene	96	6.189	6.098	(0.694)	753746	20	20
7 Acetone	43	6.219	6.142	(0.697)	197366	20	22
50 Acetonitrile	39	6.664	6.587	(0.747)	908615	400	380(H)
111 Allyl Chloride	76	6.619	6.542	(0.742)	2163563	20	19
8 Carbon Disulfide	78	6.649	6.587	(0.746)	275092	20	19
6 Methylene Chloride	84	6.842	6.780	(0.767)	785952	20	20
51 TBA	59	6.990	6.913	(0.784)	721344	400	380
52 Acrylonitrile	53	7.153	7.076	(0.802)	974458	150	140

305925

Data File: /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5654.d
Report Date: 22-Oct-98 15:07:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	53 MTBE	73	7.227	7.165	(0.810)	1538385	20	20
	12 trans-1,2-Dichloroethene	96	7.242	7.180	(0.812)	839176	20	20
	109 Allyl Alcohol	57	7.865	7.847	(0.882)	709980	3000	2900(M)
	11 1,1-Dichloroethane	63	7.805	7.758	(0.875)	1557829	20	20
	57 Vinyl Acetate	43	7.865	7.803	(0.882)	1461698	20	20
	55 DIPE	45	7.865	7.803	(0.882)	2955970	20	19
	18 2-Butanone	72	8.562	8.529	(0.960)	66952	20	22
	13 cis-1,2-Dichloroethene	96	8.591	8.574	(0.963)	874875	20	20
	56 Ethyl Acetate	43	8.606	8.574	(0.965)	831064	40	40
*	2 Bromochloromethane	128	8.917	8.885	(1.000)	792589	30	
	15 Chloroform	83	8.992	8.959	(1.008)	1644896	20	20
	20 1,1,1-Trichloroethane	97	9.288	9.256	(1.042)	1257598	20	19
	59 Cyclohexane	56	9.392	9.375	(1.053)	1153170	20	18
	21 Carbon Tetrachloride	117	9.511	9.478	(1.067)	1280491	20	19
$	16 1,2-Dichloroethane-d4 (SUR)	104	9.644	9.612	(0.949)	165246	30	29
	61 Isopropyl Acetate	43	9.703	9.671	(0.955)	2661251	40	39
	17 1,2-Dichloroethane	62	9.748	9.716	(0.959)	1030747	20	20
	28 Benzene	78	9.763	9.730	(0.961)	2027707	20	20
*	19 1,4-Difluorobenzene	114	10.163	10.146	(1.000)	2955157	30	
	25 Trichloroethene	95	10.534	10.516	(1.036)	1006085	20	20
	23 1,2-Dichloropropane	63	10.801	10.783	(1.063)	826195	20	20
	108 Methyl Methacrylate	100	10.845	10.843	(1.067)	182079	20	20
	64 Propyl Acetate	43	10.904	10.902	(1.073)	1225413	40	41
	100 1,4-Dioxane	88	10.934	10.917	(1.076)	688447	3000	3000
	22 Bromodichloromethane	83	11.112	11.109	(1.093)	1491261	20	19
	30 2-Chloroethyl Vinyl Ether	63	11.409	11.406	(1.123)	446307	20	19
	110 Epichlorohydrin	57	11.512	11.510	(1.133)	1075854	400	380
	24 cis-1,3-Dichloropropene	75	11.646	11.628	(1.146)	1143097	20	19
	33 4-Methyl-2-Pentanone	43	11.764	11.762	(1.158)	507011	20	18
$	37 Toluene-d8 (SUR)	98	11.987	11.984	(0.876)	2646305	30	31
	38 Toluene	91	12.076	12.058	(0.883)	2232530	20	21
	29 trans-1,3-Dichloropropene	75	12.269	12.266	(0.897)	951290	20	20
	27 1,1,2-Trichloroethane	83	12.506	12.503	(0.914)	632375	20	21
	35 Tetrachloroethene	166	12.743	12.741	(0.932)	1250220	20	21
	34 2-Hexanone	43	12.728	12.741	(0.931)	290698	20	20
	65 Butyl Acetate	43	12.832	12.844	(0.938)	1200693	40	38
	26 Dibromochloromethane	129	13.010	13.007	(0.951)	1288619	20	20
	66 1,2-Dibromoethane	107	13.173	13.171	(0.963)	1061319	20	20
*	32 Chlorobenzene-d5	117	13.677	13.675	(1.000)	1864832	30	
	39 Chlorobenzene	112	13.707	13.704	(1.002)	1731051	20	20
	114 1,1,1,2-Tetrachloroethane	131	13.781	13.778	(1.008)	937152	20	20
	40 Ethylbenzene	106	13.796	13.793	(1.009)	731945	20	21
	43 m+p-Xylene	106	13.914	13.912	(1.017)	2029098	40	41
	44 o-Xylene	106	14.374	14.372	(1.051)	928003	20	20
	42 Styrene	104	14.374	14.372	(1.051)	1491408	20	20
	31 Bromoform	173	14.641	14.639	(1.070)	907043	20	20
$	41 Bromofluorobenzene (SUR)	174	14.952	14.950	(1.093)	1170945	30	30

305926

Data File: /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5654.d
Report Date: 22-Oct-98 15:07:47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
36 1,1,2,2-Tetrachloroethane	83	15.041	15.039	(1.100)	931141	20	21
67 1,3-Dichlorobenzene	146	16.124	16.136	(1.179)	1320247	20	21
68 1,4-Dichlorobenzene	146	16.213	16.210	(1.185)	1742779	20	20
112 Benzyl Chloride	91	16.317	16.329	(1.193)	1022449	20	21
69 1,2-Dichlorobenzene	146	16.628	16.640	(1.216)	1338753	20	21
107 1,2,4-Trichlorobenzene	180	18.407	18.420	(1.346)	856305	20	23
70 Naphthalene	128	18.719	18.731	(1.369)	1337100	20	27
M 14 1,2-Dichloroethene (total)	100				1714051	40	40
M 45 Xylene (Total)	100				2957101	60	61

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

305927

Data File: /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5654.d
Date : 21-OCT-1998 12:12
Client ID:
Sample Info: VSTD020
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAMS7.i
Operator: VOAMS 7
Column diameter: 0.53

305928

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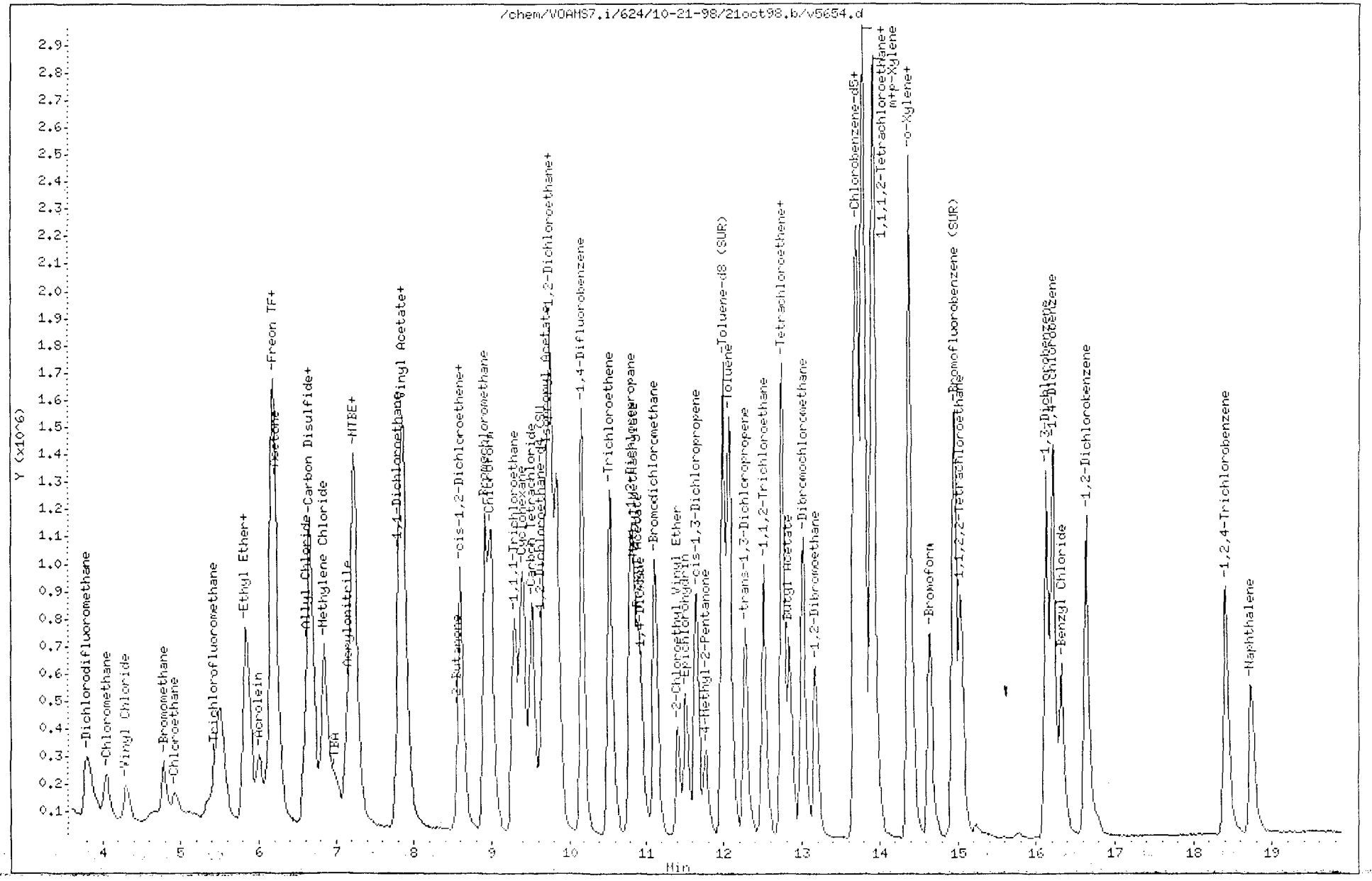

Data File: /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5655.d
Report Date: 22-Oct-98 15:07:51

Envirotech Research, Inc.

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5655.d
Lab Smp Id: VSTD010
Inj Date : 21-OCT-98 12:40:00
Operator : VOAMS 7 Inst ID: VOAMS7.i
Smp Info : VSTD010
Misc Info :
Comment :
Method : /chem/VOAMS7.i/624/10-21-98/21oct98.b/new624.m
Meth Date : 22-Oct-98 11:26:23 dave Quant Type: ISTD
Cal Date : 21-OCT-98 12:40:00 Cal File: v5655.d
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: hpvoa

Concentration Formula: 5/Vo

Name	Value	Description
Vo	5.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
98 Dichlorodifluoromethane	85	3.743	3.725	(0.421)	578883	10	9.5
1 Chloromethane	50	3.980	3.948	(0.448)	276346	10	9.7
4 Vinyl Chloride	62	4.232	4.185	(0.476)	226146	10	9.5
3 Bromomethane	94	4.707	4.674	(0.530)	161247	10	11
5 Chloroethane	64	4.855	4.822	(0.546)	109636	10	10
9 Trichlorofluoromethane	101	5.344	5.297	(0.601)	241866	10	9.0
46 Ethyl Ether	59	5.744	5.727	(0.646)	257166	10	9.8
113 Isoprene	67	5.774	5.771	(0.650)	359320	10	9.6
47 Acrolein	56	5.952	5.920	(0.670)	447821	200	190
48 Freon TF	101	6.130	6.098	(0.690)	839220	10	9.9
10 1,1-Dichloroethene	96	6.130	6.098	(0.690)	398475	10	10
7 Acetone	43	6.160	6.142	(0.693)	130092	10	13
50 Acetonitrile	39	6.619	6.587	(0.745)	462015	200	190
111 Allyl Chloride	76	6.575	6.542	(0.740)	1064441	10	9.5
8 Carbon Disulfide	78	6.590	6.587	(0.741)	140062	10	9.7
6 Methylene Chloride	84	6.797	6.780	(0.765)	423365	10	10
51 TBA	59	6.931	6.913	(0.780)	371793	200	190
52 Acrylonitrile	53	7.109	7.076	(0.800)	646759	100	92

305929

Data File: /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5655.d
Report Date: 22-Oct-98 15:07:51

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
	53	MTBE	73	7.168	7.165	(0.806)	772807	10	9.8
	12	trans-1,2-Dichloroethene	96	7.183	7.180	(0.808)	417528	10	9.8
	109	Allyl Alcohol	57	7.820	7.847	(0.880)	419736	2000	1700(M)
	11	1,1-Dichloroethane	63	7.761	7.758	(0.873)	777421	10	9.6
	57	Vinyl Acetate	43	7.820	7.803	(0.880)	735897	10	9.8
	55	DIPE	45	7.820	7.803	(0.880)	1455329	10	9.4
	18	2-Butanone	72	8.547	8.529	(0.962)	39071	10	12
	13	cis-1,2-Dichloroethene	96	8.577	8.574	(0.965)	436927	10	9.8
	56	Ethyl Acetate	43	8.577	8.574	(0.965)	466983	20	21
*	2	Bromochloromethane	128	8.888	8.885	(1.000)	812695	30	
	15	Chloroform	83	8.962	8.959	(1.008)	800194	10	9.5
	20	1,1,1-Trichloroethane	97	9.259	9.256	(1.042)	634097	10	9.7
	59	Cyclohexane	56	9.363	9.375	(1.053)	569779	10	9.2
	21	Carbon Tetrachloride	117	9.496	9.478	(1.068)	650673	10	9.6
$	16	1,2-Dichloroethane-d4 (SUR)	104	9.615	9.612	(0.947)	175421	30	30
	61	Isopropyl Acetate	43	9.674	9.671	(0.953)	1345390	20	20
	17	1,2-Dichloroethane	62	9.718	9.716	(0.958)	522000	10	9.9
	28	Benzene	78	9.733	9.730	(0.959)	1037484	10	9.9
*	19	1,4-Difluorobenzene	114	10.148	10.146	(1.000)	3022877	30	
	25	Trichloroethene	95	10.519	10.516	(1.037)	510037	10	9.8
	23	1,2-Dichloropropane	63	10.786	10.783	(1.063)	415959	10	9.7
	108	Methyl Methacrylate	100	10.830	10.843	(1.067)	87657	10	9.5
	64	Propyl Acetate	43	10.890	10.902	(1.073)	645869	20	21
	100	1,4-Dioxane	88	10.919	10.917	(1.076)	430821	2000	1900
	22	Bromodichloromethane	83	11.112	11.109	(1.095)	734551	10	9.4
	30	2-Chloroethyl Vinyl Ether	63	11.409	11.406	(1.124)	207593	10	9.0
	110	Epichlorohydrin	57	11.498	11.510	(1.133)	522099	200	180
	24	cis-1,3-Dichloropropene	75	11.631	11.628	(1.146)	559765	10	9.3
	33	4-Methyl-2-Pentanone	43	11.750	11.762	(1.158)	251107	10	9.0
$	37	Toluene-d8 (SUR)	98	11.972	11.984	(0.875)	2666471	30	25
	38	Toluene	91	12.061	12.058	(0.882)	1144982	10	8.6
	29	trans-1,3-Dichloropropene	75	12.269	12.266	(0.897)	451871	10	8.0
	27	1,1,2-Trichloroethane	83	12.491	12.503	(0.913)	321176	10	8.6
	35	Tetrachloroethene	166	12.728	12.741	(0.931)	623878	10	8.5
	34	2-Hexanone	43	12.728	12.741	(0.931)	139310	10	7.8
	65	Butyl Acetate	43	12.832	12.844	(0.938)	574167	20	15
	26	Dibromochloromethane	129	12.995	13.007	(0.950)	630222	10	8.1
	66	1,2-Dibromoethane	107	13.173	13.171	(0.963)	538218	10	8.4
*	32	Chlorobenzene-d5	117	13.677	13.675	(1.000)	2394881	30	
	39	Chlorobenzene	112	13.707	13.704	(1.002)	863174	10	8.4
	114	1,1,1,2-Tetrachloroethane	131	13.766	13.778	(1.006)	478431	10	8.6
	40	Ethylbenzene	106	13.781	13.793	(1.008)	375597	10	8.6
	43	m+p-Xylene	106	13.915	13.912	(1.017)	1024291	20	17
	44	o-Xylene	106	14.360	14.372	(1.050)	469723	10	8.5
	42	Styrene	104	14.374	14.372	(1.051)	725644	10	8.1
	31	Bromoform	173	14.641	14.639	(1.070)	428530	10	7.9
$	41	Bromofluorobenzene (SUR)	174	14.953	14.950	(1.093)	1183845	30	25

305930

Data File: /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5655.d
Report Date: 22-Oct-98 15:07:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	36 1,1,2,2-Tetrachloroethane	83	15.042	15.039	(1.100)	466179	10	8.5
	67 1,3-Dichlorobenzene	146	16.124	16.136	(1.179)	644475	10	8.3
	68 1,4-Dichlorobenzene	146	16.213	16.210	(1.185)	869574	10	8.2
	112 Benzyl Chloride	91	16.317	16.329	(1.193)	499613	10	8.3
	69 1,2-Dichlorobenzene	146	16.628	16.640	(1.216)	669049	10	8.6
	107 1,2,4-Trichlorobenzene	180	18.408	18.420	(1.346)	450404	10	9.7
	70 Naphthalene	128	18.734	18.731	(1.370)	633435	10	10
M	14 1,2-Dichloroethene (total)	100				854455	20	20
M	45 Xylene (Total)	100				1494014	30	25

QC Flag Legend

M - Compound response manually integrated.

305931

Data File: /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5655.d
Date : 21-OCT-1998 12:40
Client ID:
Sample Info: VSTD010
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAMS7.i
Operator: VOAMS 7
Column diameter: 0.53

305932

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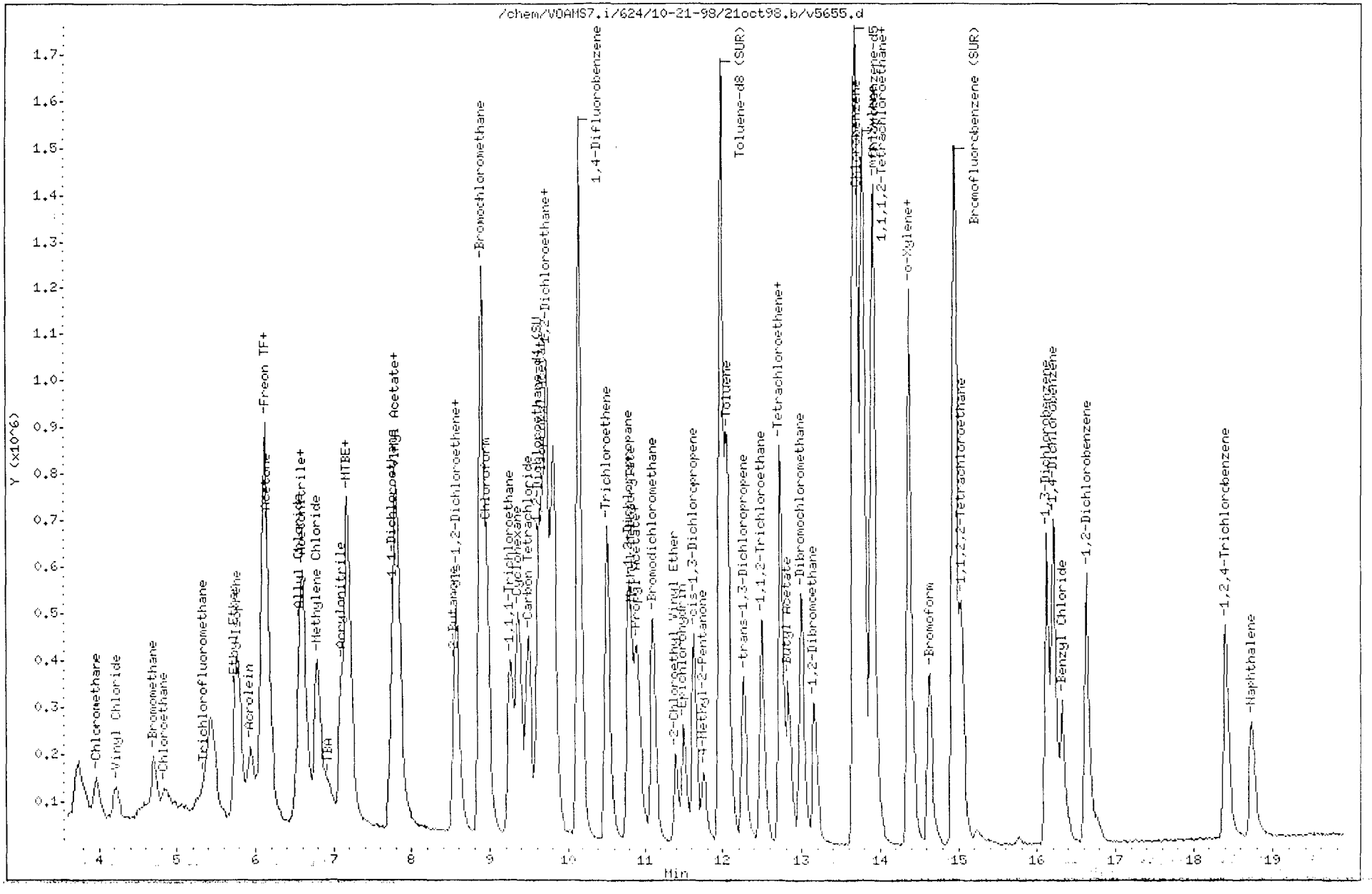


Data File: /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5656.d
Report Date: 22-Oct-98 15:07:56

Envirotech Research, Inc.

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5656.d
Lab Smp Id: VSTD005
Inj Date : 21-OCT-98 13:08:00
Operator : VOAMS 7 Inst ID: VOAMS7.i
Smp Info : VSTD005
Misc Info :
Comment :
Method : /chem/VOAMS7.i/624/10-21-98/21oct98.b/new624.m
Meth Date : 22-Oct-98 11:26:23 dave Quant Type: ISTD
Cal Date : 21-OCT-98 13:08:00 Cal File: v5656.d
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: hpvoa

Concentration Formula: 5/Vo

Name	Value	Description
Vo	5.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
98 Dichlorodifluoromethane	85	3.725	3.725	(0.419)	249913	5.0	4.3
1 Chloromethane	50	3.948	3.948	(0.444)	148834	5.0	5.2
4 Vinyl Chloride	62	4.185	4.185	(0.471)	120674	5.0	5.0
3 Bromomethane	94	4.674	4.674	(0.526)	86408	5.0	5.6
5 Chloroethane	64	4.822	4.822	(0.543)	56108	5.0	5.1
9 Trichlorofluoromethane	101	5.297	5.297	(0.596)	120318	5.0	4.6
46 Ethyl Ether	59	5.727	5.727	(0.645)	138481	5.0	5.2
113 Isoprene	67	5.771	5.771	(0.650)	174016	5.0	4.7(a)
47 Acrolein	56	5.920	5.920	(0.666)	225089	100	97
48 Freon TF	101	6.098	6.098	(0.686)	408871	5.0	4.8(a)
10 1,1-Dichloroethene	96	6.098	6.098	(0.686)	205898	5.0	5.2
7 Acetone	43	6.142	6.142	(0.691)	73072	5.0	6.6(M)
50 Acetonitrile	39	6.587	6.587	(0.741)	240459	100	100(M)
111 Allyl Chloride	76	6.542	6.542	(0.736)	559113	5.0	5.0
8 Carbon Disulfide	78	6.587	6.587	(0.741)	72194	5.0	5.0
6 Methylene Chloride	84	6.780	6.780	(0.763)	249117	5.0	5.8
51 TBA	59	6.913	6.913	(0.778)	209561	100	110
52 Acrylonitrile	53	7.076	7.076	(0.796)	322148	50	47(a)

305933

Data File: /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5656.d
Report Date: 22-Oct-98 15:07:56

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
53 MTBE	73	7.165	7.165	(0.806)	430559	5.0	5.4
12 trans-1,2-Dichloroethene	96	7.180	7.180	(0.808)	227920	5.0	5.3
109 Allyl Alcohol	57	7.847	7.847	(0.883)	236319	1000	990(aM)
11 1,1-Dichloroethane	63	7.758	7.758	(0.873)	423014	5.0	5.2
57 Vinyl Acetate	43	7.803	7.803	(0.878)	384331	5.0	5.1(M)
55 DIPE	45	7.803	7.803	(0.878)	762724	5.0	5.0
18 2-Butanone	72	8.529	8.529	(0.960)	29040	5.0	7.6
13 cis-1,2-Dichloroethene	96	8.574	8.574	(0.965)	235286	5.0	5.2
56 Ethyl Acetate	43	8.574	8.574	(0.965)	283973	10	12
* 2 Bromochloromethane	128	8.885	8.885	(1.000)	811955	30	
15 Chloroform	83	8.959	8.959	(1.008)	446126	5.0	5.2
20 1,1,1-Trichloroethane	97	9.256	9.256	(1.042)	331445	5.0	5.0
59 Cyclohexane	56	9.375	9.375	(1.055)	291023	5.0	4.7(a)
21 Carbon Tetrachloride	117	9.478	9.478	(1.067)	334326	5.0	5.0(H)
$ 16 1,2-Dichloroethane-d4 (SUR)	104	9.612	9.612	(0.947)	176301	30	30
61 Isopropyl Acetate	43	9.671	9.671	(0.953)	631019	10	9.3
17 1,2-Dichloroethane	62	9.716	9.716	(0.958)	280147	5.0	5.2
28 Benzene	78	9.730	9.730	(0.959)	550959	5.0	5.2
* 19 1,4-Difluorobenzene	114	10.146	10.146	(1.000)	3048966	30	
25 Trichloroethene	95	10.516	10.516	(1.037)	273848	5.0	5.2
23 1,2-Dichloropropane	63	10.783	10.783	(1.063)	229970	5.0	5.3
108 Methyl Methacrylate	100	10.843	10.843	(1.069)	45349	5.0	4.9(a)
64 Propyl Acetate	43	10.902	10.902	(1.075)	336350	10	10
100 1,4-Dioxane	88	10.917	10.917	(1.076)	252369	1000	1100
22 Bromodichloromethane	83	11.109	11.109	(1.095)	396138	5.0	5.0
30 2-Chloroethyl Vinyl Ether	63	11.406	11.406	(1.124)	100684	5.0	4.4
110 Epichlorohydrin	57	11.510	11.510	(1.134)	287018	100	100
24 cis-1,3-Dichloropropene	75	11.628	11.628	(1.146)	303036	5.0	5.0
33 4-Methyl-2-Pentanone	43	11.762	11.762	(1.159)	143020	5.0	5.1
$ 37 Toluene-d8 (SUR)	98	11.984	11.984	(0.876)	2685454	30	28
38 Toluene	91	12.058	12.058	(0.882)	632666	5.0	5.1
29 trans-1,3-Dichloropropene	75	12.266	12.266	(0.897)	246439	5.0	4.8
27 1,1,2-Trichloroethane	83	12.503	12.503	(0.914)	173875	5.0	5.0
35 Tetrachloroethene	166	12.741	12.741	(0.932)	339899	5.0	5.0
34 2-Hexanone	43	12.741	12.741	(0.932)	67291	5.0	4.2(aM)
65 Butyl Acetate	43	12.844	12.844	(0.939)	333168	10	9.7
26 Dibromochloromethane	129	13.007	13.007	(0.951)	337572	5.0	4.8
66 1,2-Dibromoethane	107	13.171	13.171	(0.963)	289958	5.0	4.9
* 32 Chlorobenzene-d5	117	13.675	13.675	(1.000)	2205163	30	
39 Chlorobenzene	112	13.704	13.704	(1.002)	470351	5.0	5.0
114 1,1,1,2-Tetrachloroethane	131	13.778	13.778	(1.008)	257189	5.0	5.0
40 Ethylbenzene	106	13.793	13.793	(1.009)	190619	5.0	4.8
43 m+p-Xylene	106	13.912	13.912	(1.017)	568451	10	10
44 o-Xylene	106	14.372	14.372	(1.051)	253204	5.0	5.0
42 Styrene	104	14.372	14.372	(1.051)	387122	5.0	4.8
31 Bromoform	173	14.639	14.639	(1.070)	227272	5.0	4.6
$ 41 Bromofluorobenzene (SUR)	174	14.950	14.950	(1.093)	1194838	30	28

305934

Data File: /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5656.d
Report Date: 22-Oct-98 15:07:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	36 1,1,2,2-Tetrachloroethane	83	15.039	15.039	(1.100)	260293	5.0	5.1
	67 1,3-Dichlorobenzene	146	16.136	16.136	(1.180)	360484	5.0	5.0
	68 1,4-Dichlorobenzene	146	16.210	16.210	(1.185)	465271	5.0	4.8
	112 Benzyl Chloride	91	16.329	16.329	(1.194)	247167	5.0	4.6(a)
	69 1,2-Dichlorobenzene	146	16.640	16.640	(1.217)	355223	5.0	5.0
	107 1,2,4-Trichlorobenzene	180	18.420	18.420	(1.347)	272691	5.0	6.0
	70 Naphthalene	128	18.731	18.731	(1.370)	418439	5.0	6.6
M	14 1,2-Dichloroethene (total)	100				463206	10	10
M	45 Xylene (Total)	100				821655	15	15

QC Flag Legend

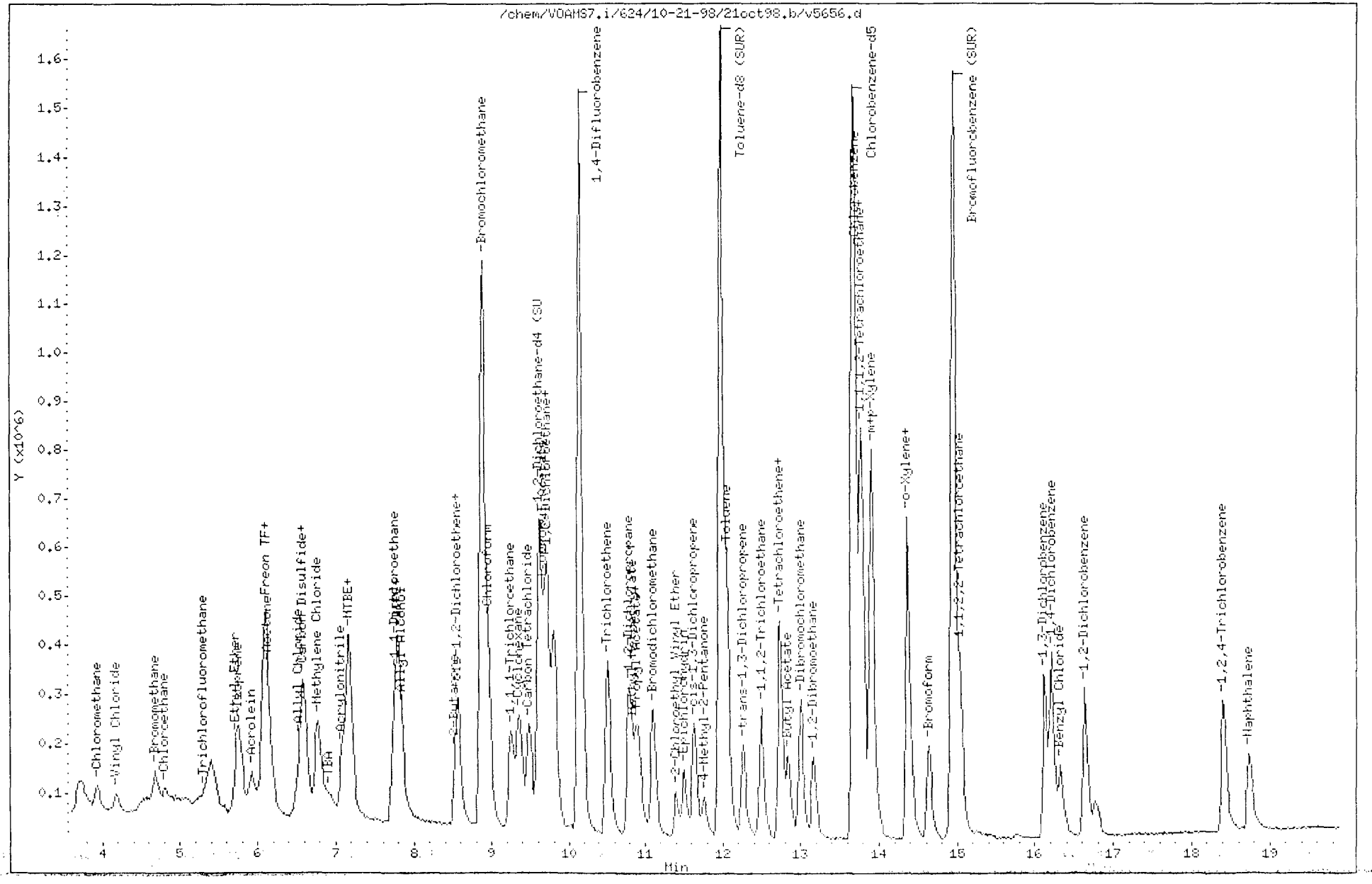
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

305935

Data File: /chem/VOAMS7.i/624/10-21-98/21oct98.b/v5656.d
Date : 21-OCT-1998 13:08
Client ID:
Sample Info: VSTD005
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAMS7.i
Operator: VOAMS 7
Column diameter: 0.53

305936



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VOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 624

Instrument ID: VOAMS7 Calibration Date: 10/23/98 Time: 1013

Lab File ID: V5732 Init. Calib. Date(s): 10/21/98 10/21/98

Heated Purge: (Y/N) N Init. Calib. Times: 1117 1308

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
Chloromethane	1.059	1.104		-4.2	104
Bromomethane	0.571	0.539		5.6	86.0
Vinyl Chloride	0.882	0.901		-2.0	96.0
Chloroethane	0.403	0.529		-31.1	62.0
Methylene Chloride	1.581	1.542		2.5	39.5
Acetone	0.407	0.399		2.0	
Carbon Disulfide	0.533	0.544		-1.9	
Trichlorofluoromethane	0.967	0.791		18.2	52.0
1,1-Dichloroethene	1.454	1.399		3.8	49.5
1,1-Dichloroethane	3.009	3.079		-2.3	27.5
trans-1,2-Dichloroethene	1.599	1.555		2.8	30.5
cis-1,2-Dichloroethene	1.668	1.637		1.8	
Chloroform	3.135	3.203		-2.0	32.5
1,2-Dichloroethane	0.530	0.565		-6.6	32.0
2-Butanone	0.140	0.126		10.0	
1,1,1-Trichloroethane	2.426	2.385		1.7	25.0
Carbon Tetrachloride	2.489	2.554		-2.6	27.0
Bromodichloromethane	0.776	0.815		-5.0	34.5
1,2-Dichloropropane	0.429	0.450		-4.7	66.0
cis-1,3-Dichloropropene	0.597	0.614		-2.8	76.0
Trichloroethene	0.522	0.537		-2.7	33.5
Dibromochloromethane	0.961	1.005		-4.4	32.5
1,1,2-Trichloroethane	0.469	0.501		-6.8	29.0
Benzene	1.049	1.100		-4.7	36.0
trans-1,3-Dichloropropene	0.698	0.708		-1.4	50.0
2-Chloroethyl Vinyl Ether	0.223	0.243		-8.8	124
Bromoform	0.668	0.645		3.4	29.0
4-Methyl-2-Pentanone	0.278	0.269		3.2	
2-Hexanone	0.215	0.211		1.9	
Tetrachloroethene	0.920	0.964		-4.6	26.5
1,1,2,2-Tetrachloroethane	0.692	0.688		0.6	39.5
Toluene	1.676	1.734		-3.3	25.5
Chlorobenzene	1.288	1.343		-4.1	34.0
Ethylbenzene	0.541	0.557		-2.8	41.0
Styrene	1.108	1.148		-3.6	
Xylene (Total)	0.740	0.791		-6.7	
Ethyl Ether	0.976	1.005		-2.8	

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 624

Instrument ID: VOAMS7 Calibration Date: 10/23/98 Time: 1013

Lab File ID: V5732 Init. Calib. Date(s): 10/21/98 10/21/98

Heated Purge: (Y/N) N Init. Calib. Times: 1117 1308

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
Acrolein	0.086	0.099		-15.1	
Freon TF	3.108	3.350		-7.6	
Isopropanol					
Acetonitrile	0.089	0.100		-12.2	
TBA	0.072	0.061		15.3	
Acrylonitrile	0.254	0.261		-2.6	
MTBE	2.963	2.844		4.0	
Hexane					
DIPE	5.682	6.305		-10.8	
Ethyl Acetate	0.855	0.846		1.0	
Vinyl Acetate	2.795	3.046		-8.8	
Tetrahydrofuran					
Cyclohexane	2.266	2.571		-13.4	
Isobutanol					
Isopropyl Acetate	0.669	0.712		-6.4	
n-Heptane					
n-Butanol					
Propyl Acetate	0.312	0.340		-8.8	
Butyl Acetate	0.467	0.495		-5.8	
1,2-Dibromoethane	0.804	0.823		-2.2	
1,3-Dichlorobenzene	0.973	0.938		3.6	27.0
1,4-Dichlorobenzene	1.311	1.253		4.4	37.0
1,2-Dichlorobenzene	0.970	0.936		3.5	37.0
Naphthalene	0.856	0.271		68.3	
Methylnaphthalene (total)					
Dimethylnaphthalene (total)					
Dichlorodifluoromethane	2.165	2.155	0.01	0.5	40.0
1,4-Dioxane	0.002	0.002		0.0	
n-Pentane		0.335	0.01		
5-Methyl-2-Hexanone			0.01		50.0
Isopropylbenzene					
1,2,4-Trimethylbenzene			0.01		50.0
Cyclohexanone			0.0001		50.0
1,2,4-Trichlorobenzene	0.615	0.375	0.01	39.0	50.0
Methyl Methacrylate	0.091	0.096		-5.3	
Allyl Alcohol	0.009	0.007		22.2	40.0
Epichlorohydrin	0.028	0.029	0.01	-3.4	40.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 624

Instrument ID: VOAMS7 Calibration Date: 10/23/98 Time: 1013

Lab File ID: V5732 Init. Calib. Date(s): 10/21/98 10/21/98

Heated Purge: (Y/N) N Init. Calib. Times: 1117 1308

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
Allyl Chloride	4.133	4.026	0.01	2.6	40.0
Benzyl Chloride	0.736	0.663	0.01	9.9	40.0
Isoprene	1.360	1.469	0.01	-8.0	40.0
1,1,1,2-Tetrachloroethane	0.700	0.758	0.01	-8.1	50.0
Camphene (total)					
Camphor					
1,3,5-Trimethylbenzene			0.01		50.0
1,2-Dichloroethane-d4 (SUR)	0.058	0.063		-8.6	
Toluene-d8 (SUR)	1.298	1.342		-3.2	
Bromofluorobenzene (SUR)	0.588	0.632		-7.3	

305939

Data File: /chem/VOAMS7.i/624/10-21-98/23oct98.b/v5732.d
Report Date: 23-Oct-98 15:12:08

Envirotech Research, Inc.

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-21-98/23oct98.b/v5732.d
Lab Smp Id: VSTD296
Inj Date : 23-OCT-98 10:13:00
Operator : VOAMS 7 Inst ID: VOAMS7.i
Smp Info : VSTD296
Misc Info :
Comment :
Method : /chem/VOAMS7.i/624/10-21-98/23oct98.b/new624.m
Meth Date : 23-Oct-98 11:03:03 Quant Type: ISTD
Cal Date : 21-OCT-98 13:08:00 Cal File: v5656.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: hpvoa

Concentration Formula: 5/Vo

Name	Value	Description
Vo	5.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
98 Dichlorodifluoromethane	85	4.006	3.725	(0.439)	1068578	20	20(T)
1 Chloromethane	50	4.243	3.948	(0.465)	547256	20	21(TH)
4 Vinyl Chloride	62	4.510	4.185	(0.494)	446766	20	20(T)
3 Bromomethane	94	5.000	4.674	(0.548)	267228	20	19(T)
5 Chloroethane	64	5.163	4.822	(0.566)	262526	20	26(T)
9 Trichlorofluoromethane	101	5.682	5.297	(0.623)	392001	20	16(T)
101 n-Pentane	72	5.771	5.608	(0.633)	165954	20	(Ta)
46 Ethyl Ether	59	6.067	5.727	(0.665)	498433	20	20(T)
113 Isoprene	67	6.112	5.771	(0.670)	728589	20	22(T)
47 Acrolein	56	6.260	5.920	(0.686)	737662	300	350(T)
48 Freon TF	101	6.453	6.098	(0.707)	1660914	20	22(T)
10 1,1-Dichloroethene	96	6.468	6.098	(0.709)	693835	20	19(T)
7 Acetone	43	6.482	6.142	(0.711)	198023	20	20(TH)
50 Acetonitrile	39	6.927	6.587	(0.759)	992456	400	450(TH)
111 Allyl Chloride	76	6.927	6.542	(0.759)	1996187	20	19(T)
8 Carbon Disulfide	78	6.927	6.587	(0.759)	269602	20	20(T)
6 Methylene Chloride	84	7.120	6.780	(0.781)	764633	20	20(T)
51 TBA	59	7.239	6.913	(0.794)	602418	400	340(T)

305940

Data File: /chem/VOAMS7.i/624/10-21-98/23oct98.b/v5732.d
Report Date: 23-Oct-98 15:12:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	52 Acrylonitrile	53	7.402	7.076	(0.811)	970164	150	150(TH)
	53 MTBE	73	7.491	7.165	(0.821)	1409940	20	19(T)
	12 trans-1,2-Dichloroethene	96	7.506	7.180	(0.823)	771108	20	19(T)
	109 Allyl Alcohol	57	8.099	7.847	(0.888)	546989	3000	2500(TM)
	11 1,1-Dichloroethane	63	8.069	7.758	(0.885)	1526632	20	20(T)
	57 Vinyl Acetate	43	8.113	7.803	(0.889)	1510485	20	22(T)
	55 DIPE	45	8.113	7.803	(0.889)	3126165	20	22(T)
	18 2-Butanone	72	8.781	8.529	(0.963)	62739	20	18(T)
	13 cis-1,2-Dichloroethene	96	8.825	8.574	(0.967)	811530	20	20(T)
	56 Ethyl Acetate	43	8.825	8.574	(0.967)	839336	40	40(T)
*	2 Bromochloromethane	128	9.122	8.885	(1.000)	743721	30	(T)
	15 Chloroform	83	9.196	8.959	(1.008)	1588174	20	20(T)
	20 1,1,1-Trichloroethane	97	9.478	9.256	(1.039)	1182710	20	20(T)
	59 Cyclohexane	56	9.581	9.375	(1.050)	1274880	20	23(T)
	21 Carbon Tetrachloride	117	9.700	9.478	(1.063)	1266580	20	20(T)
$	16 1,2-Dichloroethane-d4 (SUR)	104	9.819	9.612	(0.953)	171333	30	32(T)
	61 Isopropyl Acetate	43	9.848	9.671	(0.955)	2594926	40	42
	17 1,2-Dichloroethane	62	9.908	9.716	(0.961)	1030130	20	21
	28 Benzene	78	9.922	9.730	(0.963)	2004822	20	21
*	19 1,4-Difluorobenzene	114	10.308	10.146	(1.000)	2734690	30	
	25 Trichloroethene	95	10.664	10.516	(1.035)	978596	20	20
	23 1,2-Dichloropropane	63	10.931	10.783	(1.060)	820036	20	21
	108 Methyl Methacrylate	100	10.960	10.843	(1.063)	175392	20	21
	64 Propyl Acetate	43	11.005	10.902	(1.068)	1239603	40	44
	100 1,4-Dioxane	88	11.049	10.917	(1.072)	591428	3000	2800
	22 Bromodichloromethane	83	11.227	11.109	(1.089)	1486436	20	21
	30 2-Chloroethyl Vinyl Ether	63	11.509	11.406	(1.117)	443281	20	22
	110 Epichlorohydrin	57	11.613	11.510	(1.127)	1073898	400	420
	24 cis-1,3-Dichloropropene	75	11.732	11.628	(1.138)	1119579	20	20
	33 4-Methyl-2-Pentanone	43	11.850	11.762	(1.150)	491019	20	19
$	37 Toluene-d8 (SUR)	98	12.073	11.984	(0.880)	2525674	30	31
	38 Toluene	91	12.147	12.058	(0.885)	2176568	20	21
	29 trans-1,3-Dichloropropene	75	12.339	12.266	(0.899)	888617	20	20
	27 1,1,2-Trichloroethane	83	12.577	12.503	(0.917)	629155	20	21
	35 Tetrachloroethene	166	12.814	12.741	(0.934)	1209453	20	21
	34 2-Hexanone	43	12.799	12.741	(0.933)	265068	20	20
	65 Butyl Acetate	43	12.903	12.844	(0.941)	1241844	40	42
	26 Dibromochloromethane	129	13.066	13.007	(0.952)	1261243	20	21
	66 1,2-Dibromoethane	107	13.229	13.171	(0.964)	1032626	20	20
*	32 Chlorobenzene-d5	117	13.718	13.675	(1.000)	1882199	30	
	39 Chlorobenzene	112	13.763	13.704	(1.003)	1685329	20	21
	114 1,1,1,2-Tetrachloroethane	131	13.822	13.778	(1.008)	951563	20	22
	40 Ethylbenzene	106	13.837	13.793	(1.009)	699320	20	21
	43 m+p-Xylene	106	13.956	13.912	(1.017)	2064204	40	43
	44 o-Xylene	106	14.401	14.372	(1.050)	912383	20	21
	42 Styrene	104	14.415	14.372	(1.051)	1440721	20	21
	31 Bromoform	173	14.667	14.639	(1.069)	809757	20	19

305941

Data File: /chem/VOAMS7.i/624/10-21-98/23oct98.b/v5732.d
Report Date: 23-Oct-98 15:12:08

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$ 41 Bromofluorobenzene (SUR)	174	14.979	14.950	(1.092)	1190478	30	32
36 1,1,2,2-Tetrachloroethane	83	15.068	15.039	(1.098)	862896	20	20
67 1,3-Dichlorobenzene	146	16.150	16.136	(1.177)	1176553	20	19
68 1,4-Dichlorobenzene	146	16.239	16.210	(1.184)	1572409	20	19
112 Benzyl Chloride	91	16.343	16.329	(1.191)	831668	20	18
69 1,2-Dichlorobenzene	146	16.654	16.640	(1.214)	1173879	20	19
107 1,2,4-Trichlorobenzene	180	18.434	18.420	(1.344)	470050	20	12
70 Naphthalene	128	18.760	18.731	(1.367)	340582	20	6.3
M 14 1,2-Dichloroethene (total)	100				1582638	40	39
M 45 Xylene (Total)	100				2976587	60	64

QC Flag Legend

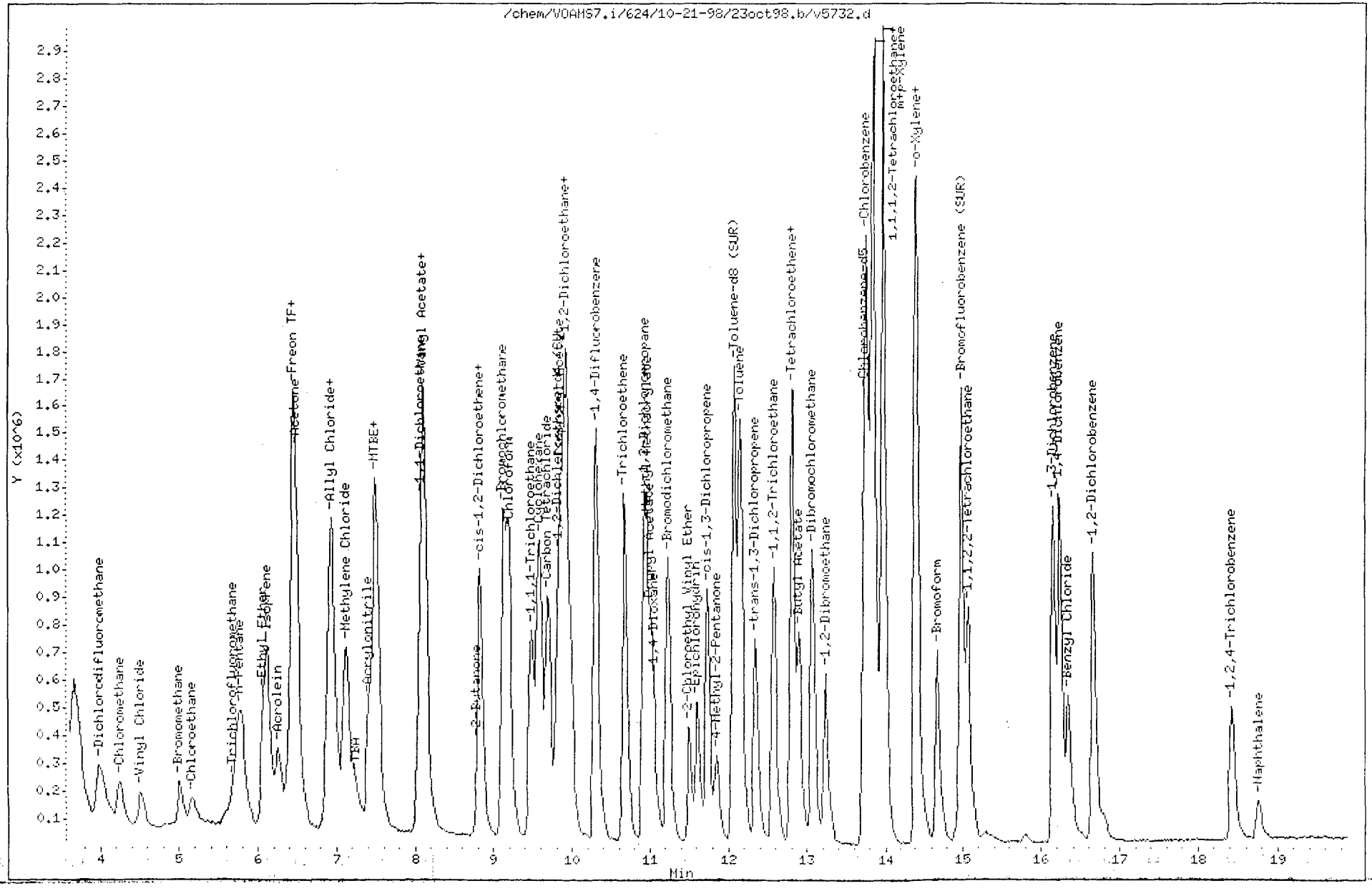
T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

305942

Data File: /chem/VOAMS7.i/624/10-21-98/23oct98.b/v5732.d
Date : 23-OCT-1998 10:13
Client ID:
Sample Info: VSTD296
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAMS7.i
Operator: VOAMS 7
Column diameter: 0.53

305943



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VOLATILE ORGANICS INITIAL CALIBRATION DATA
METHOD 624

Instrument ID: VOAMS7 Calibration Date(s): 10/27/98 10/27/98

Heated Purge: (Y/N) N Calibration Time(s): 1134 1326

LAB FILE ID: RRF5: V5863 RRF10: V5862 RRF20: V5861
RRF50: V5860 RRF200: V5859

COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF200
Chloromethane	0.981	0.897	0.946	1.083	0.940
Bromomethane	0.636	0.625	0.598	0.602	0.417
Vinyl Chloride	0.821	0.800	0.831	0.901	0.759
Chloroethane	0.463	0.551	0.581	0.608	0.517
Methylene Chloride	1.500	1.462	1.490	1.541	1.287
Acetone	0.547	0.572	0.388	0.334	0.290
Carbon Disulfide	0.466	0.502	0.538	0.572	0.495
Trichlorofluoromethane	0.922	1.038	1.068	1.206	0.906
1,1-Dichloroethene	1.300	1.425	1.466	1.525	1.228
1,1-Dichloroethane	2.568	2.800	2.854	3.067	2.698
trans-1,2-Dichloroethene	1.410	1.512	1.582	1.596	1.352
cis-1,2-Dichloroethene	1.449	1.579	1.650	1.696	1.411
Chloroform	2.722	2.967	3.047	3.116	2.689
1,2-Dichloroethane	0.467	0.510	0.499	0.528	0.489
2-Butanone	0.194	0.134	0.120	0.112	0.094
1,1,1-Trichloroethane	2.066	2.309	2.402	2.511	2.123
Carbon Tetrachloride	2.072	2.296	2.458	2.574	2.232
Bromodichloromethane	0.637	0.728	0.726	0.781	0.722
1,2-Dichloropropane	0.358	0.404	0.399	0.419	0.397
cis-1,3-Dichloropropene	0.488	0.568	0.566	0.597	0.576
Trichloroethene	0.435	0.498	0.487	0.514	0.464
Dibromochloromethane	0.761	0.885	0.975	1.012	0.928
1,1,2-Trichloroethane	0.396	0.458	0.475	0.494	0.433
Benzene	0.900	1.010	0.982	1.045	0.958
trans-1,3-Dichloropropene	0.563	0.663	0.711	0.723	0.679
2-Chloroethyl Vinyl Ether	0.207	0.211	0.227	0.248	0.250
Bromoform	0.505	0.624	0.685	0.741	0.679
4-Methyl-2-Pentanone	0.242	0.250	0.259	0.286	0.302
2-Hexanone	0.154	0.197	0.210	0.239	0.241
Tetrachloroethene	0.744	0.907	0.911	0.946	0.816
1,1,2,2-Tetrachloroethane	0.636	0.698	0.727	0.753	0.691
Toluene	1.425	1.669	1.653	1.682	1.469
Chlorobenzene	1.073	1.236	1.292	1.318	1.165
Ethylbenzene	0.445	0.498	0.518	0.557	0.496
Styrene	0.858	1.018	1.070	1.162	1.076
Xylene (Total)	0.594	0.702	0.742	0.763	0.684
Ethyl Ether	0.956	0.977	1.006	1.048	0.905
Acrolein	0.090	0.092	0.098	0.105	0.092
Freon TF	3.155	3.345	3.442	3.488	2.766

305944

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS7 Calibration Date(s): 10/27/98 10/27/98

Heated Purge: (Y/N) N Calibration Time(s): 1134 1326

LAB FILE ID: RRF5: V5863 RRF10: V5862 RRF20: V5861
RRF50: V5860 RRF200: V5859

COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF200
Isopropanol					
Acetonitrile	0.083	0.083	0.090	0.094	0.090
TBA	0.069	0.067	0.073	0.076	0.068
Acrylonitrile	0.237	0.232	0.254	0.264	0.258
MTBE	2.707	2.841	2.920	2.982	2.590
Hexane					
DIPE	5.176	5.450	5.584	5.965	5.662
Ethyl Acetate	1.002	0.847	0.822	0.812	0.773
Vinyl Acetate					
Tetrahydrofuran					
Cyclohexane	2.156	2.293	2.378	2.524	2.364
Isobutanol					
Isopropyl Acetate	0.626	0.684	0.625	0.709	0.704
n-Heptane					
n-Butanol					
Propyl Acetate	0.314	0.329	0.314	0.312	0.300
Butyl Acetate	0.399	0.446	0.500	0.536	0.529
1,2-Dibromoethane	0.660	0.739	0.809	0.834	0.772
1,3-Dichlorobenzene	0.795	0.900	0.950	0.937	0.906
1,4-Dichlorobenzene	1.073	1.210	1.319	1.465	1.260
1,2-Dichlorobenzene	0.867	0.939	0.960	0.998	0.896
Naphthalene	1.311	1.132	1.136	0.996	0.354
Methylnaphthalene (total)					
Dimethylnaphthalene (total)					
Dichlorodifluoromethane	1.685	1.962	2.196	2.314	1.927
1,4-Dioxane	0.002	0.002	0.002	0.002	0.002
n-Pentane	0.433	0.326	0.302	0.332	0.295
5-Methyl-2-Hexanone					
Isopropylbenzene					
1,2,4-Trimethylbenzene					
Cyclohexanone					
1,2,4-Trichlorobenzene	0.743	0.670	0.666	0.636	0.412
Methyl Methacrylate	0.078	0.089	0.094	0.099	0.094
Allyl Alcohol					
Epichlorohydrin	0.025	0.027	0.028	0.031	0.032
Allyl Chloride	3.442	3.853	4.149	4.402	3.787
Benzyl Chloride	0.660	0.733	0.829	0.891	0.807
Isoprene	1.309	1.380	1.504	1.543	1.310
1,1,1,2-Tetrachloroethane	0.584	0.674	0.720	0.731	0.642

305945

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS7 Calibration Date(s): 10/27/98 10/27/98

Heated Purge: (Y/N) N Calibration Time(s): 1134 1326

LAB FILE ID: RRF5: V5863 RRF10: V5862 RRF20: V5861
RRF50: V5860 RRF200: V5859

COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF200
Camphene (total)					
Camphor					
1,3,5-Trimethylbenzene					
1,2-Dichloroethane-d4 (SUR)	0.058	0.056	0.057	0.059	0.069
Toluene-d8 (SUR)	1.225	1.349	1.357	1.336	1.347
Bromofluorobenzene (SUR)	0.550	0.591	0.600	0.607	0.679

305946

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS7 Calibration Date(s): 10/27/98 10/27/98

Heated Purge: (Y/N) N Calibration Time(s): 1134 1326

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Chloromethane	AVRG	0.96962899	7.2*
Bromomethane	AVRG	0.57580143	15.6*
Vinyl Chloride	AVRG	0.82249981	6.3*
Chloroethane	AVRG	0.54406661	10.4*
Methylene Chloride	AVRG	1.45586093	6.8*
Acetone	AVRG	0.42618142	29.7*
Carbon Disulfide	AVRG	0.51467149	8.0*
Trichlorofluoromethane	AVRG	1.02814291	11.8*
1,1-Dichloroethene	AVRG	1.38895218	8.8*
1,1-Dichloroethane	AVRG	2.79771474	6.6*
trans-1,2-Dichloroethene	AVRG	1.49067325	7.2*
cis-1,2-Dichloroethene	AVRG	1.55703265	8.0*
Chloroform	AVRG	2.90814910	6.6*
1,2-Dichloroethane	AVRG	0.49863150	4.6*
2-Butanone	AVRG	0.13081226	29.0*
1,1,1-Trichloroethane	AVRG	2.28236782	8.2*
Carbon Tetrachloride	AVRG	2.32651149	8.4*
Bromodichloromethane	AVRG	0.71880435	7.2*
1,2-Dichloropropane	AVRG	0.39553352	5.7*
cis-1,3-Dichloropropene	AVRG	0.55911390	7.4*
Trichloroethene	AVRG	0.47969816	6.4*
Dibromochloromethane	AVRG	0.91205271	10.7*
1,1,2-Trichloroethane	AVRG	0.45118225	8.5*
Benzene	AVRG	0.97889716	5.6*
trans-1,3-Dichloropropene	AVRG	0.66804963	9.5*
2-Chloroethyl Vinyl Ether	AVRG	0.22881929	8.9*
Bromoform	AVRG	0.64696845	13.8*
4-Methyl-2-Pentanone	AVRG	0.26819306	9.5*
2-Hexanone	AVRG	0.20830635	17.0*
Tetrachloroethene	AVRG	0.86485068	9.6*
1,1,2,2-Tetrachloroethane	AVRG	0.70094140	6.3*
Toluene	AVRG	1.57992090	7.8*
Chlorobenzene	AVRG	1.21702833	8.2*
Ethylbenzene	AVRG	0.50285352	8.0*
Styrene	AVRG	1.03669927	10.8*
Xylene (Total)	AVRG	0.69696747	9.4*
Ethyl Ether	AVRG	0.97869721	5.5*
Acrolein	AVRG	0.09524306	6.4*
Freon TF	AVRG	3.23959877	9.1*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

305947

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS7 Calibration Date(s): 10/27/98 10/27/98

Heated Purge: (Y/N) N Calibration Time(s): 1134 1326

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Isopropanol	AVRG		
Acetonitrile	AVRG	0.08798538	5.6*
TBA	AVRG	0.07088256	5.3*
Acrylonitrile	AVRG	0.24913667	5.6*
MTBE	AVRG	2.80811679	5.7*
Hexane	AVRG		
DIPE	AVRG	5.56752323	5.2*
Ethyl Acetate	AVRG	0.85138129	10.4*
Vinyl Acetate	AVRG		
Tetrahydrofuran	AVRG		
Cyclohexane	AVRG	2.34311934	5.7*
Isobutanol	AVRG		
Isopropyl Acetate	AVRG	0.66955393	6.2*
n-Heptane	AVRG		
n-Butanol	AVRG		
Propyl Acetate	AVRG	0.31396080	3.3*
Butyl Acetate	AVRG	0.48189969	12.1*
1,2-Dibromoethane	AVRG	0.76300501	8.9*
1,3-Dichlorobenzene	AVRG	0.89750878	6.8*
1,4-Dichlorobenzene	AVRG	1.26523968	11.4*
1,2-Dichlorobenzene	AVRG	0.93214909	5.6*
Naphthalene	AVRG	0.98569864	37.6*
Methylnaphthalene (total)	AVRG		
Dimethylnaphthalene (total)	AVRG		
Dichlorodifluoromethane	AVRG	2.01667800	12.2**
1,4-Dioxane	AVRG	0.00229387	5.8*
n-Pentane	AVRG	0.33779284	16.4**
5-Methyl-2-Hexanone	AVRG		
Isopropylbenzene	AVRG		
1,2,4-Trimethylbenzene	AVRG		
Cyclohexanone	AVRG		
1,2,4-Trichlorobenzene	AVRG	0.62535434	20.0**
Methyl Methacrylate	AVRG	0.09089700	8.6*
Allyl Alcohol	AVRG		
Epichlorohydrin	AVRG	0.02856671	9.7**
Allyl Chloride	AVRG	3.92660818	9.3**
Benzyl Chloride	AVRG	0.78416558	11.4**
Isoprene	AVRG	1.40937531	7.7**
1,1,1,2-Tetrachloroethane	AVRG	0.67021231	9.0**

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

305948

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS7 Calibration Date(s): 10/27/98 10/27/98

Heated Purge: (Y/N) N Calibration Time(s): 1134 1326

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Camphene (total)	AVRG		
Camphor	AVRG		
1,3,5-Trimethylbenzene	AVRG		
1,2-Dichloroethane-d4 (SUR)	AVRG	0.05981371	8.5*
Toluene-d8 (SUR)	AVRG	1.32279620	4.2*
Bromofluorobenzene (SUR)	AVRG	0.60541621	7.7*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

305949

Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5859.d
Report Date: 27-Oct-98 13:08:24

Envirotech Research, Inc.

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5859.d
Lab Smp Id: VSTD200 Client Smp ID: VSTD200
Inj Date : 27-OCT-98 11:34:00
Operator : VOAMS 7 Inst ID: VOAMS7.i
Smp Info : VSTD200
Misc Info :
Comment :
Method : /chem/VOAMS7.i/624/10-27-98/27oct98.b/new624.m
Meth Date : 27-Oct-98 13:05:52 dave Quant Type: ISTD
Cal Date : 27-OCT-98 11:34:00 Cal File: v5859.d
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: hpvoa

Concentration Formula: 5/Vo

Name	Value	Description
Vo	5.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
98 Dichlorodifluoromethane	85	3.888	3.888	(0.433)	11601990	200	180
1 Chloromethane	50	4.184	4.184	(0.466)	5660041	200	190(H)
4 Vinyl Chloride	62	4.451	4.451	(0.495)	4568995	200	180(H)
3 Bromomethane	94	4.911	4.911	(0.546)	2513810	200	150
5 Chloroethane	64	5.059	5.059	(0.563)	3113068	200	180
9 Trichlorofluoromethane	101	5.578	5.578	(0.621)	5452589	200	170(M)
101 n-Pentane	72	5.667	5.667	(0.630)	1778458	200	190(M)
46 Ethyl Ether	59	5.919	5.919	(0.659)	5449240	200	180(H)
113 Isoprene	67	5.979	5.979	(0.665)	7889528	200	180(H)
47 Acrolein	56	6.127	6.127	(0.682)	1385155	500	470(AH)
48 Freon TF	101	6.320	6.320	(0.703)	16656279	200	170
10 1,1-Dichloroethene	96	6.349	6.349	(0.706)	7397411	200	170
7 Acetone	43	6.334	6.334	(0.705)	1745811	200	170
50 Acetonitrile	39	6.794	6.794	(0.756)	10906025	4000	4000
111 Allyl Chloride	76	6.794	6.794	(0.756)	22800458	200	180(H)
8 Carbon Disulfide	78	6.794	6.794	(0.756)	2978717	200	180
6 Methylene Chloride	84	6.972	6.972	(0.776)	7746963	200	180
51 TBA	59	7.076	7.076	(0.787)	8246752	4000	3800

305950

Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5859.d
Report Date: 27-Oct-98 13:08:24

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
52 Acrylonitrile	53	7.254	7.254	(0.807)	1945770	250	250(H)
53 MTBE	73	7.328	7.328	(0.815)	15598368	200	180
12 trans-1,2-Dichloroethene	96	7.358	7.358	(0.819)	8143173	200	180
11 1,1-Dichloroethane	63	7.921	7.921	(0.881)	16245791	200	190
55 DIPE	45	7.951	7.951	(0.885)	34094457	200	200
18 2-Butanone	72	8.648	8.648	(0.962)	567808	200	170
13 cis-1,2-Dichloroethene	96	8.677	8.677	(0.965)	8495848	200	180
56 Ethyl Acetate	43	8.677	8.677	(0.965)	9310718	400	380
* 2 Bromochloromethane	128	8.989	8.989	(1.000)	903178	30	
15 Chloroform	83	9.048	9.048	(1.007)	16191153	200	180
20 1,1,1-Trichloroethane	97	9.345	9.345	(1.040)	12785366	200	180
59 Cyclohexane	56	9.448	9.448	(1.051)	14235520	200	200
21 Carbon Tetrachloride	117	9.567	9.567	(1.064)	13439729	200	180
$ 16 1,2-Dichloroethane-d4 (SUR)	104	9.700	9.700	(0.952)	228740	30	33
61 Isopropyl Acetate	43	9.730	9.730	(0.955)	31251003	400	410(A)
17 1,2-Dichloroethane	62	9.775	9.775	(0.959)	10850758	200	190
28 Benzene	78	9.804	9.804	(0.962)	21274388	200	190
* 19 1,4-Difluorobenzene	114	10.190	10.190	(1.000)	3330774	30	
25 Trichloroethene	95	10.560	10.560	(1.036)	10300464	200	190
23 1,2-Dichloropropane	63	10.812	10.812	(1.061)	8820580	200	200
108 Methyl Methacrylate	100	10.857	10.857	(1.065)	2078447	200	200
64 Propyl Acetate	43	10.901	10.901	(1.070)	13331319	400	390
100 1,4-Dioxane	88	10.931	10.931	(1.073)	1228017	5000	4900
22 Bromodichloromethane	83	11.124	11.124	(1.092)	16034688	200	190
30 2-Chloroethyl Vinyl Ether	63	11.406	11.406	(1.119)	5557977	200	210(A)
110 Epichlorohydrin	57	11.509	11.509	(1.129)	14093858	4000	4200(A)
24 cis-1,3-Dichloropropene	75	11.628	11.628	(1.141)	12799619	200	200
33 4-Methyl-2-Pentanone	43	11.761	11.761	(1.154)	6718965	200	210(A)
$ 37 Toluene-d8 (SUR)	98	11.984	11.984	(0.873)	3141180	30	30
38 Toluene	91	12.058	12.058	(0.878)	22840156	200	180
29 trans-1,3-Dichloropropene	75	12.251	12.251	(0.892)	10560590	200	190
27 1,1,2-Trichloroethane	83	12.488	12.488	(0.909)	6728933	200	180
35 Tetrachloroethene	166	12.725	12.725	(0.927)	12689906	200	180
34 2-Hexanone	43	12.696	12.696	(0.924)	3751955	200	210(AH)
65 Butyl Acetate	43	12.814	12.814	(0.933)	16449749	400	400(A)
26 Dibromochloromethane	129	12.977	12.977	(0.945)	14429896	200	190
66 1,2-Dibromoethane	107	13.140	13.140	(0.957)	12011422	200	190
* 32 Chlorobenzene-d5	117	13.645	13.645	(1.000)	2332420	30	(H)
39 Chlorobenzene	112	13.674	13.674	(0.996)	18122838	200	180
114 1,1,1,2-Tetrachloroethane	131	13.748	13.748	(1.001)	9976755	200	180
40 Ethylbenzene	106	13.748	13.748	(1.001)	7716087	200	190(H)
43 m+p-Xylene	106	13.867	13.867	(1.010)	21939700	400	370
44 o-Xylene	106	14.327	14.327	(1.043)	9976205	200	190
42 Styrene	104	14.327	14.327	(1.043)	16725936	200	200
31 Bromoform	173	14.594	14.594	(1.063)	10555972	200	190
$ 41 Bromofluorobenzene (SUR)	174	14.905	14.905	(1.085)	1583692	30	32
36 1,1,2,2-Tetrachloroethane	83	14.994	14.994	(1.092)	10744031	200	190

305951

Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5859.d
Report Date: 27-Oct-98 13:08:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	67 1,3-Dichlorobenzene	146	16.062	16.062	(1.169)	14093255	200	190(H)
	68 1,4-Dichlorobenzene	146	16.151	16.151	(1.176)	19585788	200	190
	112 Benzyl Chloride	91	16.254	16.254	(1.184)	12552466	200	190
	69 1,2-Dichlorobenzene	146	16.566	16.566	(1.206)	13932555	200	190
	107 1,2,4-Trichlorobenzene	180	18.330	18.330	(1.335)	6413791	200	140
	70 Naphthalene	128	18.657	18.657	(1.358)	5503217	200	85
M	14 1,2-Dichloroethene (total)	100				16639021	400	360
M	45 Xylene (Total)	100				31915905	600	560

QC Flag Legend

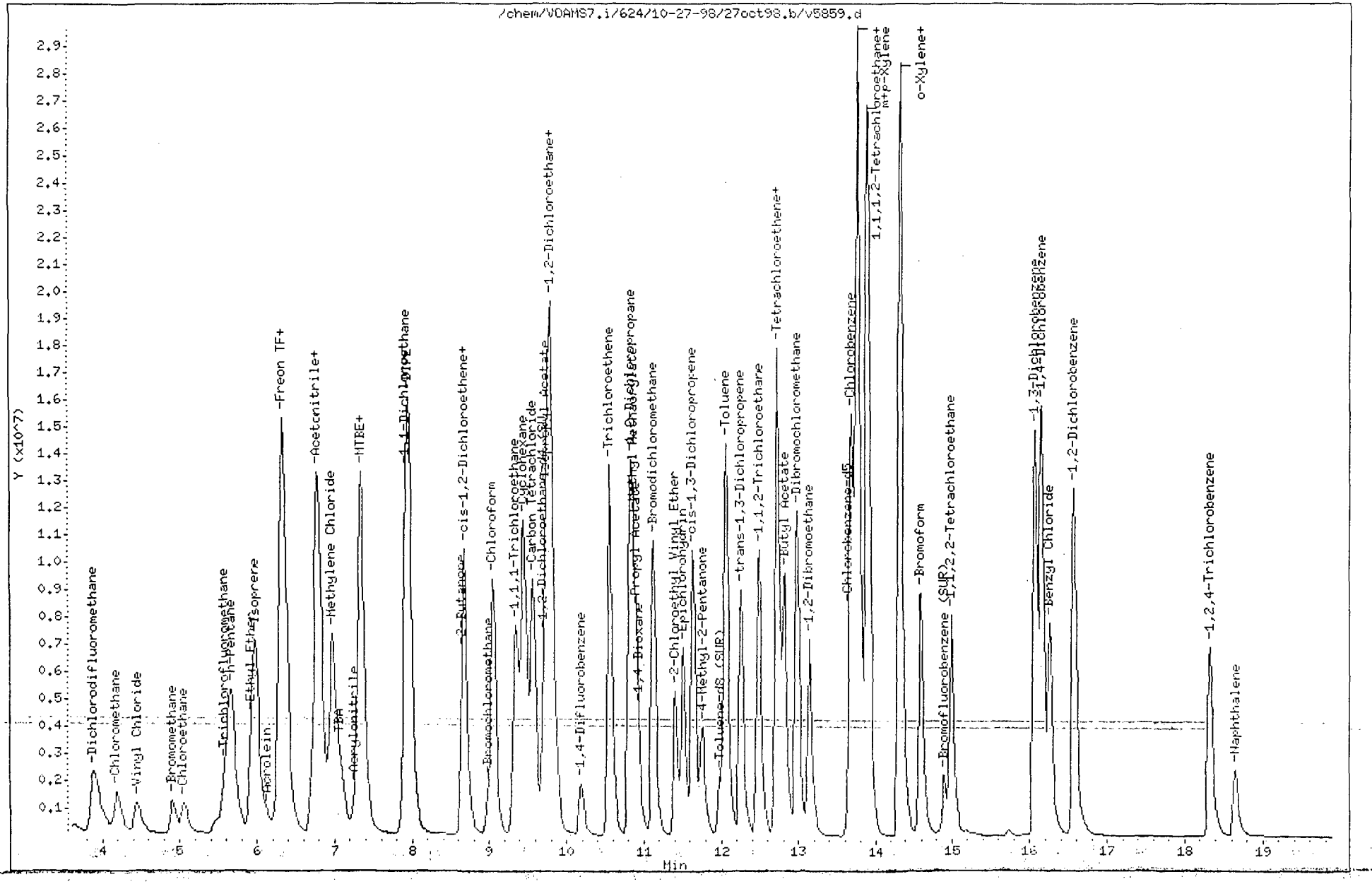
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

305952

Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5859.d
Date : 27-OCT-1998 11:34
Client ID: VSTD200
Sample Info: VSTD200
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAMS7.i
Operator: VOAMS 7
Column diameter: 0.53

305953



Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5860.d
Report Date: 27-Oct-98 13:08:49

Envirotech Research, Inc.

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5860.d
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 27-OCT-98 12:02:00
Operator : VOAMS 7 Inst ID: VOAMS7.i
Smp Info : VSTD050
Misc Info :
Comment :
Method : /chem/VOAMS7.i/624/10-27-98/27oct98.b/new624.m
Meth Date : 27-Oct-98 13:05:52 dave Quant Type: ISTD
Cal Date : 27-OCT-98 11:34:00 Cal File: v5859.d
Als bottle: 3 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: hpvoa

Concentration Formula: 5/Vo

Name	Value	Description
Vo	5.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
98 Dichlorodifluoromethane	85	3.905	3.905	(0.436)	2978696	50	54
1 Chloromethane	50	4.187	4.187	(0.467)	1394685	50	55
4 Vinyl Chloride	62	4.439	4.439	(0.495)	1160545	50	54
3 Bromomethane	94	4.914	4.914	(0.548)	775253	50	56
5 Chloroethane	64	5.062	5.062	(0.565)	782573	50	53
9 Trichlorofluoromethane	101	5.610	5.610	(0.626)	1552451	50	57
101 n-Pentane	72	5.670	5.670	(0.633)	427204	50	54
46 Ethyl Ether	59	5.937	5.937	(0.662)	1349698	50	53
113 Isoprene	67	5.996	5.996	(0.669)	1986481	50	53
47 Acrolein	56	6.129	6.129	(0.684)	1079472	400	430(A)
48 Freon TF	101	6.322	6.322	(0.705)	4491483	50	54
10 1,1-Dichloroethene	96	6.337	6.337	(0.707)	1963819	50	54
7 Acetone	43	6.352	6.352	(0.709)	430589	50	50
50 Acetonitrile	39	6.782	6.782	(0.757)	2421950	1000	1000
111 Allyl Chloride	76	6.782	6.782	(0.757)	5667638	50	54
8 Carbon Disulfide	78	6.782	6.782	(0.757)	737117	50	53
6 Methylene Chloride	84	6.960	6.960	(0.777)	1983892	50	54
51 TBA	59	7.064	7.064	(0.788)	1963324	1000	1000

305954

Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5860.d
Report Date: 27-Oct-98 13:08:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	52 Acrylonitrile	53	7.242	7.242	(0.808)	1360804	200	200
	53 MTBE	73	7.316	7.316	(0.816)	3839664	50	53
	12 trans-1,2-Dichloroethene	96	7.345	7.345	(0.820)	2055126	50	53
	11 1,1-Dichloroethane	63	7.894	7.894	(0.881)	3949259	50	53
	55 DIPE	45	7.938	7.938	(0.886)	7679632	50	52
	18 2-Butanone	72	8.621	8.621	(0.962)	143647	50	51
	13 cis-1,2-Dichloroethene	96	8.650	8.650	(0.965)	2183643	50	53
	56 Ethyl Acetate	43	8.650	8.650	(0.965)	2091893	100	100
*	2 Bromochloromethane	128	8.962	8.962	(1.000)	772493	30	
	15 Chloroform	83	9.036	9.036	(1.008)	4011228	50	53
	20 1,1,1-Trichloroethane	97	9.332	9.332	(1.041)	3233414	50	54
	59 Cyclohexane	56	9.421	9.421	(1.051)	3250042	50	52
	21 Carbon Tetrachloride	117	9.540	9.540	(1.065)	3314341	50	53
$	16 1,2-Dichloroethane-d4 (SUR)	104	9.659	9.659	(0.949)	175104	30	29
	61 Isopropyl Acetate	43	9.703	9.703	(0.953)	7007752	100	100
	17 1,2-Dichloroethane	62	9.762	9.762	(0.959)	2613052	50	52
	28 Benzene	78	9.777	9.777	(0.961)	5167112	50	52
*	19 1,4-Difluorobenzene	114	10.177	10.177	(1.000)	2966192	30	
	25 Trichloroethene	95	10.533	10.533	(1.035)	2542970	50	53
	23 1,2-Dichloropropane	63	10.800	10.800	(1.061)	2073661	50	52
	108 Methyl Methacrylate	100	10.830	10.830	(1.064)	491841	50	52
	64 Propyl Acetate	43	10.889	10.889	(1.070)	3089044	100	100
	100 1,4-Dioxane	88	10.919	10.919	(1.073)	953972	4000	4200
	22 Bromodichloromethane	83	11.112	11.112	(1.092)	3862347	50	52
	30 2-Chloroethyl Vinyl Ether	63	11.393	11.393	(1.119)	1228749	50	51
	110 Epichlorohydrin	57	11.497	11.497	(1.130)	3053122	1000	1000
	24 cis-1,3-Dichloropropene	75	11.616	11.616	(1.141)	2952571	50	51
	33 4-Methyl-2-Pentanone	43	11.734	11.734	(1.153)	1415892	50	51
$	37 Toluene-d8 (SUR)	98	11.972	11.972	(0.878)	2672873	30	30
	38 Toluene	91	12.046	12.046	(0.884)	5607792	50	52
	29 trans-1,3-Dichloropropene	75	12.239	12.239	(0.898)	2410764	50	51
	27 1,1,2-Trichloroethane	83	12.476	12.476	(0.915)	1646976	50	53
	35 Tetrachloroethene	166	12.698	12.698	(0.931)	3152180	50	53
	34 2-Hexanone	43	12.698	12.698	(0.931)	795538	50	52
	65 Butyl Acetate	43	12.802	12.802	(0.939)	3571050	100	100
	26 Dibromochloromethane	129	12.965	12.965	(0.951)	3372964	50	52
	66 1,2-Dibromoethane	107	13.128	13.128	(0.963)	2781300	50	52
*	32 Chlorobenzene-d5	117	13.632	13.632	(1.000)	1999798	30	
	39 Chlorobenzene	112	13.662	13.662	(1.002)	4392417	50	52
	114 1,1,1,2-Tetrachloroethane	131	13.736	13.736	(1.008)	2435623	50	52
	40 Ethylbenzene	106	13.751	13.751	(1.009)	1855326	50	53
	43 m+p-Xylene	106	13.870	13.870	(1.017)	5283259	100	100
	44 o-Xylene	106	14.315	14.315	(1.050)	2344915	50	52
	42 Styrene	104	14.315	14.315	(1.050)	3872795	50	53
	31 Bromoform	173	14.581	14.581	(1.070)	2470157	50	53
$	41 Bromofluorobenzene (SUR)	174	14.893	14.893	(1.092)	1213749	30	29
	36 1,1,2,2-Tetrachloroethane	83	14.982	14.982	(1.099)	2511377	50	52

305955

Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5860.d
Report Date: 27-Oct-98 13:08:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
67 1,3-Dichlorobenzene	146	16.064	16.064	(1.178)	3122058	50	50
68 1,4-Dichlorobenzene	146	16.138	16.138	(1.184)	4882842	50	54
112 Benzyl Chloride	91	16.257	16.257	(1.193)	2970353	50	53
69 1,2-Dichlorobenzene	146	16.554	16.554	(1.214)	3327216	50	52
107 1,2,4-Trichlorobenzene	180	18.318	18.318	(1.344)	2118656	50	56
70 Naphthalene	128	18.644	18.644	(1.368)	3320311	50	60
M 14 1,2-Dichloroethene (total)	100				4238769	100	110
M 45 Xylene (Total)	100				7628174	150	160

QC Flag Legend

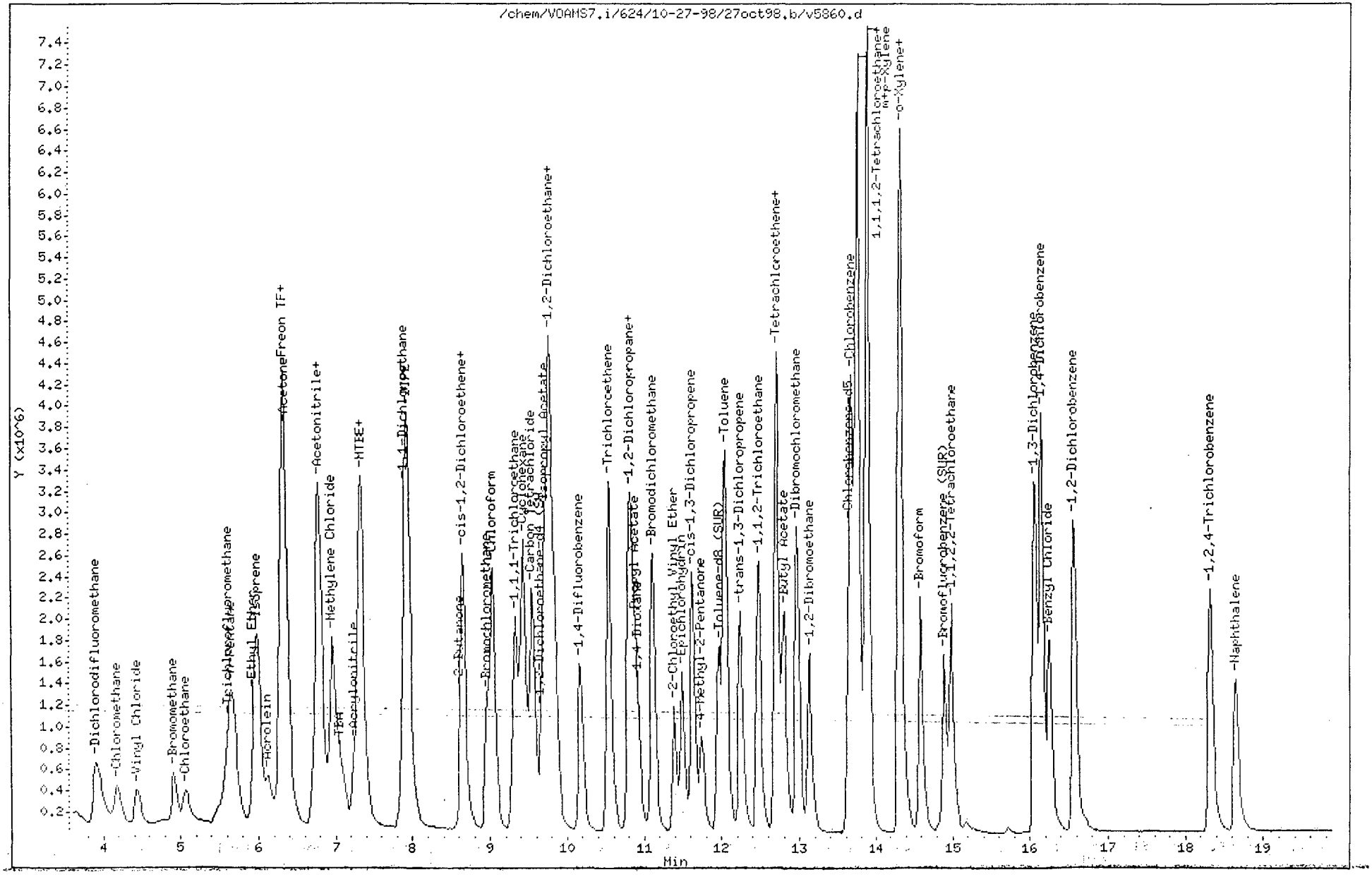
A - Target compound detected but, quantitated amount exceeded maximum amount.

305956

Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5860.d
Date : 27-OCT-1998 12:02
Client ID: VSTD050
Sample Info: VSTD050
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAMS7.i
Operator: VOAMS 7
Column diameter: 0.53

305957



Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5861.d
Report Date: 27-Oct-98 13:07:50

Envirotech Research, Inc.

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5861.d
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 27-OCT-98 12:30:00
Operator : VOAMS 7 Inst ID: VOAMS7.i
Smp Info : VSTD020
Misc Info :
Comment :
Method : /chem/VOAMS7.i/624/10-27-98/27oct98.b/new624.m
Meth Date : 27-Oct-98 13:05:52 dave Quant Type: ISTD
Cal Date : 27-OCT-98 12:30:00 Cal File: v5861.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: hpvoa

Concentration Formula: 5/Vo

Name	Value	Description
Vo	5.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
98 Dichlorodifluoromethane	85	3.770	3.770	(0.426)	1169626	20	20
1 Chloromethane	50	4.007	4.007	(0.452)	504153	20	19
4 Vinyl Chloride	62	4.259	4.259	(0.481)	442661	20	20
3 Bromomethane	94	4.734	4.734	(0.535)	318715	20	22
5 Chloroethane	64	4.882	4.882	(0.551)	309283	20	20(H)
9 Trichlorofluoromethane	101	5.386	5.386	(0.608)	569045	20	20
101 n-Pentane	72	5.460	5.460	(0.617)	161168	20	20
46 Ethyl Ether	59	5.742	5.742	(0.648)	536105	20	20
113 Isoprene	67	5.801	5.801	(0.655)	801169	20	21
47 Acrolein	56	5.935	5.935	(0.670)	781460	300	300
48 Freon TF	101	6.128	6.128	(0.692)	1833768	20	21
10 1,1-Dichloroethene	96	6.128	6.128	(0.692)	781127	20	21
7 Acetone	43	6.157	6.157	(0.695)	206588	20	23(H)
50 Acetonitrile	39	6.602	6.602	(0.745)	954490	400	390
111 Allyl Chloride	76	6.587	6.587	(0.744)	2210284	20	20
8 Carbon Disulfide	78	6.602	6.602	(0.745)	286733	20	20
6 Methylene Chloride	84	6.780	6.780	(0.766)	793469	20	21
51 TBA	59	6.884	6.884	(0.777)	780829	400	400

305958

Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5861.d
Report Date: 27-Oct-98 13:07:50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	52 Acrylonitrile	53	7.062	7.062	(0.797)	1013956	150	150
	53 MTBE	73	7.151	7.151	(0.807)	1555313	20	21
	12 trans-1,2-Dichloroethene	96	7.166	7.166	(0.809)	842995	20	21
	11 1,1-Dichloroethane	63	7.729	7.729	(0.873)	1520413	20	20
	55 DIPE	45	7.788	7.788	(0.879)	2974368	20	19
	18 2-Butanone	72	8.500	8.500	(0.960)	63985	20	22
	13 cis-1,2-Dichloroethene	96	8.530	8.530	(0.963)	879097	20	21
	56 Ethyl Acetate	43	8.545	8.545	(0.965)	875617	40	41
*	2 Bromochloromethane	128	8.856	8.856	(1.000)	799037	30	
	15 Chloroform	83	8.930	8.930	(1.008)	1622952	20	21
	20 1,1,1-Trichloroethane	97	9.227	9.227	(1.042)	1279343	20	20
	59 Cyclohexane	56	9.330	9.330	(1.054)	1266774	20	20
	21 Carbon Tetrachloride	117	9.449	9.449	(1.067)	1309251	20	20
$	16 1,2-Dichloroethane-d4 (SUR)	104	9.583	9.583	(0.949)	177223	30	28
	61 Isopropyl Acetate	43	9.627	9.627	(0.953)	2582629	40	37
	17 1,2-Dichloroethane	62	9.672	9.672	(0.957)	1030472	20	20
	28 Benzene	78	9.686	9.686	(0.959)	2028225	20	20
*	19 1,4-Difluorobenzene	114	10.102	10.102	(1.000)	3098564	30	
	25 Trichloroethene	95	10.472	10.472	(1.037)	1005291	20	20
	23 1,2-Dichloropropane	63	10.739	10.739	(1.063)	824566	20	20
	108 Methyl Methacrylate	100	10.784	10.784	(1.068)	193373	20	20
	64 Propyl Acetate	43	10.828	10.828	(1.072)	1296831	40	41
	100 1,4-Dioxane	88	10.858	10.858	(1.075)	680065	3000	2900
	22 Bromodichloromethane	83	11.051	11.051	(1.094)	1499179	20	20
	30 2-Chloroethyl Vinyl Ether	63	11.347	11.347	(1.123)	469425	20	19
	110 Epichlorohydrin	57	11.436	11.436	(1.132)	1151243	400	370
	24 cis-1,3-Dichloropropene	75	11.570	11.570	(1.145)	1169082	20	20
	33 4-Methyl-2-Pentanone	43	11.703	11.703	(1.159)	535555	20	18
$	37 Toluene-d8 (SUR)	98	11.925	11.925	(0.877)	2750971	30	30
	38 Toluene	91	12.000	12.000	(0.882)	2234441	20	21
	29 trans-1,3-Dichloropropene	75	12.207	12.207	(0.898)	960889	20	20
	27 1,1,2-Trichloroethane	83	12.430	12.430	(0.914)	641923	20	20
	35 Tetrachloroethene	166	12.667	12.667	(0.931)	1231330	20	20
	34 2-Hexanone	43	12.667	12.667	(0.931)	284098	20	18
	65 Butyl Acetate	43	12.771	12.771	(0.939)	1350891	40	38
	26 Dibromochloromethane	129	12.934	12.934	(0.951)	1317286	20	20
	66 1,2-Dibromoethane	107	13.097	13.097	(0.963)	1093046	20	20
*	32 Chlorobenzene-d5	117	13.601	13.601	(1.000)	2027034	30	
	39 Chlorobenzene	112	13.645	13.645	(1.003)	1746601	20	20
	114 1,1,1,2-Tetrachloroethane	131	13.705	13.705	(1.008)	973506	20	21
	40 Ethylbenzene	106	13.720	13.720	(1.009)	700244	20	20
	43 m+p-Xylene	106	13.838	13.838	(1.017)	2090920	40	41
	44 o-Xylene	106	14.298	14.298	(1.051)	918272	20	20
	42 Styrene	104	14.298	14.298	(1.051)	1445851	20	19
	31 Bromoform	173	14.565	14.565	(1.071)	926172	20	20
$	41 Bromofluorobenzene (SUR)	174	14.876	14.876	(1.094)	1216572	30	29
	36 1,1,2,2-Tetrachloroethane	83	14.965	14.965	(1.100)	981946	20	20

305959

Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5861.d
Report Date: 27-Oct-98 13:07:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
67 1,3-Dichlorobenzene	146	16.048	16.048	(1.180)	1283324	20	20
68 1,4-Dichlorobenzene	146	16.137	16.137	(1.186)	1782316	20	20
112 Benzyl Chloride	91	16.240	16.240	(1.194)	1120523	20	20
69 1,2-Dichlorobenzene	146	16.552	16.552	(1.217)	1297788	20	20
107 1,2,4-Trichlorobenzene	180	18.301	18.301	(1.346)	899910	20	23
70 Naphthalene	128	18.628	18.628	(1.370)	1534697	20	27
M 14 1,2-Dichloroethene (total)	100				1722092	40	42
M 45 Xylene (Total)	100				3009192	60	61

QC Flag Legend

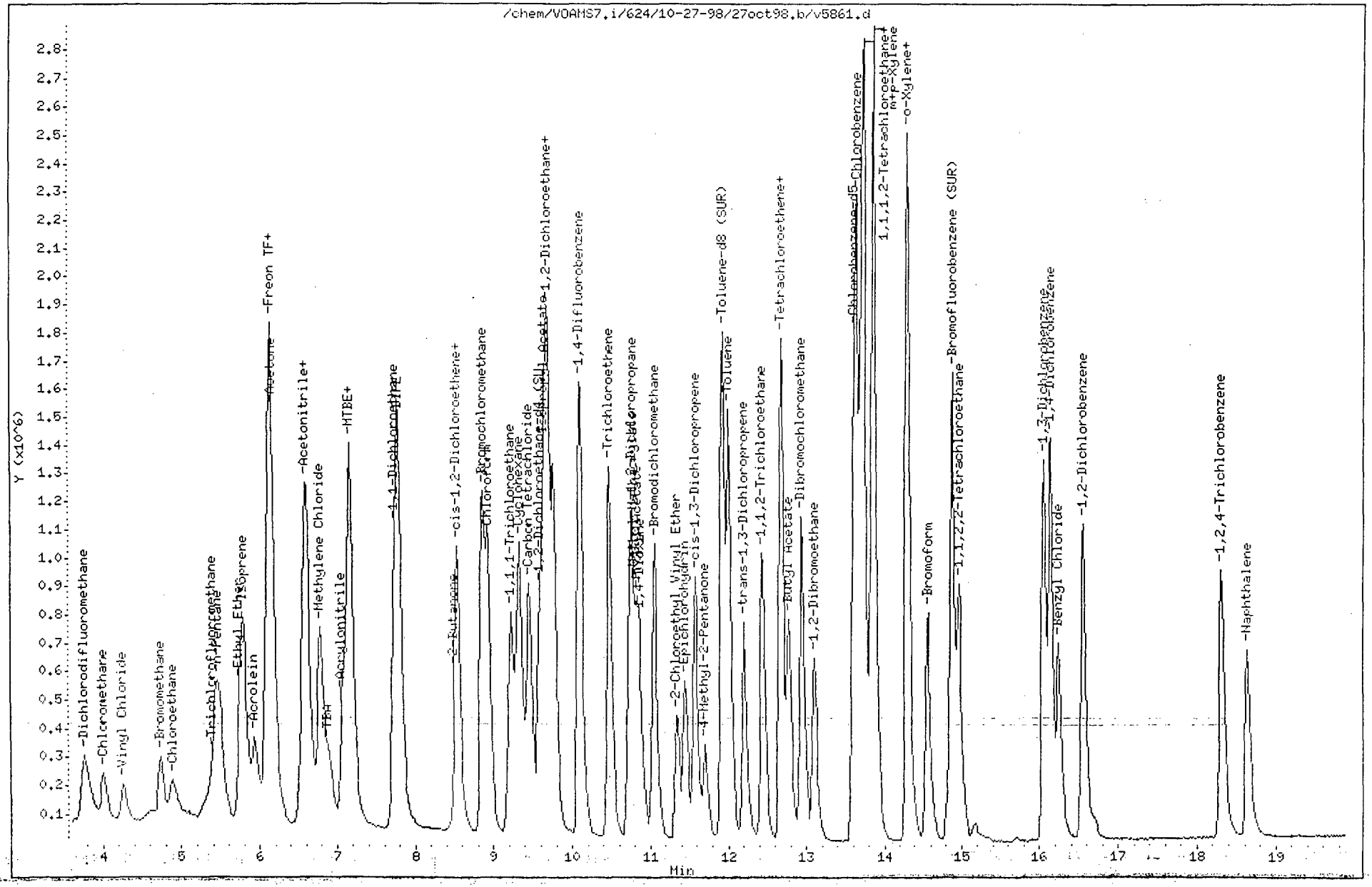
H - Operator selected an alternate compound hit.

305960

Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5861.d
Date : 27-OCT-1998 12:30
Client ID: VSTD020
Sample Info: VSTD020
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAMS7.i
Operator: VOAMS 7
Column diameter: 0.53

305961



Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5862.d
Report Date: 27-Oct-98 13:33:11

Envirotech Research, Inc.

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5862.d
Lab Smp Id: VSTD010 Client Smp ID: VSTD010
Inj Date : 27-OCT-98 12:58:00
Operator : VOAMS 7 Inst ID: VOAMS7.i
Smp Info : VSTD010
Misc Info :
Comment :
Method : /chem/VOAMS7.i/624/10-27-98/27oct98.b/new624.m
Meth Date : 27-Oct-98 13:33:03 dave Quant Type: ISTD
Cal Date : 27-OCT-98 12:58:00 Cal File: v5862.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: hpvoa

Concentration Formula: 5/Vo

Name	Value	Description
Vo	5.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
98 Dichlorodifluoromethane	85	3.694	3.694	(0.419)	531058	10	8.0
1 Chloromethane	50	3.932	3.932	(0.446)	242840	10	7.9
4 Vinyl Chloride	62	4.184	4.184	(0.474)	216553	10	8.2
3 Bromomethane	94	4.658	4.658	(0.528)	169095	10	8.9
5 Chloroethane	64	4.806	4.806	(0.545)	149230	10	8.2
9 Trichlorofluoromethane	101	5.311	5.311	(0.602)	281024	10	8.2
101 n-Pentane	72	5.400	5.400	(0.612)	88295	10	8.5
46 Ethyl Ether	59	5.681	5.681	(0.644)	264413	10	8.3(H)
113 Isoprene	67	5.741	5.741	(0.650)	373516	10	8.1(H)
47 Acrolein	56	5.874	5.874	(0.666)	498004	200	160
48 Freon TF	101	6.067	6.067	(0.687)	905258	10	8.5
10 1,1-Dichloroethene	96	6.067	6.067	(0.687)	385528	10	8.4
7 Acetone	43	6.096	6.096	(0.691)	154686	10	10(H)
50 Acetonitrile	39	6.541	6.541	(0.741)	449700	200	160(M)
111 Allyl Chloride	76	6.512	6.512	(0.738)	1042667	10	8.1
8 Carbon Disulfide	78	6.526	6.526	(0.740)	135752	10	8.1(H)
6 Methylene Chloride	84	6.734	6.734	(0.763)	395715	10	8.4
51 TBA	59	6.838	6.838	(0.775)	364060	200	160

305962

Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5862.d
Report Date: 27-Oct-98 13:33:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	52 Acrylonitrile	53	7.016	7.016	(0.795)	628503	100	79
	53 MTBE	73	7.105	7.105	(0.805)	768860	10	8.3
	12 trans-1,2-Dichloroethene	96	7.120	7.120	(0.807)	409164	10	8.3
	11 1,1-Dichloroethane	63	7.698	7.698	(0.872)	757738	10	8.2
	55 DIPE	45	7.742	7.742	(0.877)	1474885	10	8.1
	18 2-Butanone	72	8.469	8.469	(0.960)	36396	10	9.2
	13 cis-1,2-Dichloroethene	96	8.499	8.499	(0.963)	427257	10	8.3
	56 Ethyl Acetate	43	8.513	8.513	(0.965)	458433	20	17
*	2 Bromochloromethane	128	8.825	8.825	(1.000)	811788	30	
	15 Chloroform	83	8.899	8.899	(1.008)	802952	10	8.4
	20 1,1,1-Trichloroethane	97	9.196	9.196	(1.042)	624876	10	8.3
	59 Cyclohexane	56	9.299	9.299	(1.054)	620383	10	8.1
	21 Carbon Tetrachloride	117	9.418	9.418	(1.067)	621253	10	8.1
$	16 1,2-Dichloroethane-d4 (SUR)	104	9.551	9.551	(0.948)	166150	30	28
	61 Isopropyl Acetate	43	9.611	9.611	(0.954)	1348649	20	17
	17 1,2-Dichloroethane	62	9.640	9.640	(0.957)	502456	10	8.4
	28 Benzene	78	9.655	9.655	(0.959)	994901	10	8.4
*	19 1,4-Difluorobenzene	114	10.070	10.070	(1.000)	2956379	30	
	25 Trichloroethene	95	10.456	10.456	(1.038)	490990	10	8.4
	23 1,2-Dichloropropane	63	10.723	10.723	(1.065)	397683	10	8.3
	108 Methyl Methacrylate	100	10.767	10.767	(1.069)	87944	10	8.0
	64 Propyl Acetate	43	10.827	10.827	(1.075)	649371	20	17
	100 1,4-Dioxane	88	10.841	10.841	(1.077)	430911	2000	1600
	22 Bromodichloromethane	83	11.034	11.034	(1.096)	717331	10	8.2
	30 2-Chloroethyl Vinyl Ether	63	11.331	11.331	(1.125)	207849	10	7.8
	110 Epichlorohydrin	57	11.435	11.435	(1.135)	541530	200	160(H)
	24 cis-1,3-Dichloropropene	75	11.553	11.553	(1.147)	559331	10	8.2
	33 4-Methyl-2-Pentanone	43	11.687	11.687	(1.160)	246889	10	7.8
$	37 Toluene-d8 (SUR)	98	11.909	11.909	(0.876)	2690991	30	30
	38 Toluene	91	11.998	11.998	(0.882)	1110199	10	8.5
	29 trans-1,3-Dichloropropene	75	12.191	12.191	(0.896)	441096	10	8.1
	27 1,1,2-Trichloroethane	83	12.428	12.428	(0.914)	304688	10	8.2
	35 Tetrachloroethene	166	12.665	12.665	(0.931)	603362	10	8.4
	34 2-Hexanone	43	12.665	12.665	(0.931)	130919	10	7.7
	65 Butyl Acetate	43	12.769	12.769	(0.939)	593533	20	15
	26 Dibromochloromethane	129	12.932	12.932	(0.951)	588454	10	7.9
	66 1,2-Dibromoethane	107	13.095	13.095	(0.963)	491761	10	8.0
*	32 Chlorobenzene-d5	117	13.599	13.599	(1.000)	1995200	30	
	39 Chlorobenzene	112	13.629	13.629	(1.002)	821992	10	8.2
	114 1,1,1,2-Tetrachloroethane	131	13.703	13.703	(1.008)	448401	10	8.2
	40 Ethylbenzene	106	13.718	13.718	(1.009)	331449	10	8.1
	43 m+p-Xylene	106	13.837	13.837	(1.017)	975372	20	16
	44 o-Xylene	106	14.296	14.296	(1.051)	425074	10	8.1
	42 Styrene	104	14.296	14.296	(1.051)	676827	10	8.0
	31 Bromoform	173	14.563	14.563	(1.071)	415348	10	7.8
$	41 Bromofluorobenzene (SUR)	174	14.875	14.875	(1.094)	1179945	30	29
	36 1,1,2,2-Tetrachloroethane	83	14.964	14.964	(1.100)	464043	10	8.2

305963

Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5862.d
Report Date: 27-Oct-98 13:33:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	67 1,3-Dichlorobenzene	146	16.046	16.046	(1.180)	598584	10	8.2
	68 1,4-Dichlorobenzene	146	16.120	16.120	(1.185)	804563	10	7.9
	112 Benzyl Chloride	91	16.239	16.239	(1.194)	487576	10	7.8
	69 1,2-Dichlorobenzene	146	16.550	16.550	(1.217)	624666	10	8.3
	107 1,2,4-Trichlorobenzene	180	18.315	18.315	(1.347)	445269	10	9.0
	70 Naphthalene	128	18.626	18.626	(1.370)	752649	10	9.6
M	14 1,2-Dichloroethene (total)	100				836421	20	17
M	45 Xylene (Total)	100				1400446	30	24

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

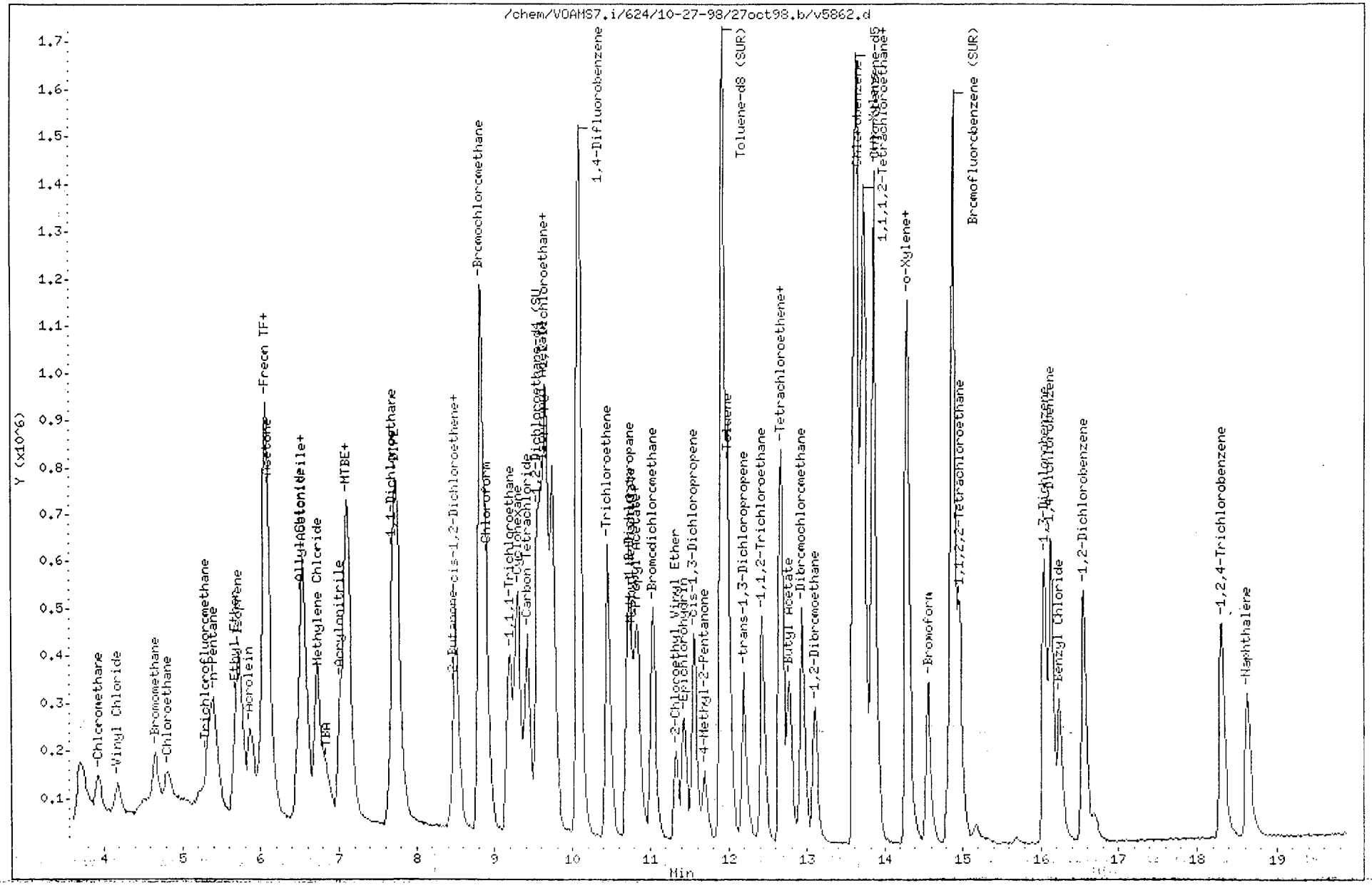
305964

Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5862.d
Date : 27-OCT-1998 12:58
Client ID: VSTD010
Sample Info: VSTD010
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAMS7.i
Operator: VOAMS 7
Column diameter: 0.53

305965

121



Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5863.d
Report Date: 27-Oct-98 13:52:29

Envirotech Research, Inc.

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5863.d
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 27-OCT-98 13:26:00
Operator : VOAMS 7 Inst ID: VOAMS7.i
Smp Info : VSTD005
Misc Info :
Comment :
Method : /chem/VOAMS7.i/624/10-27-98/27oct98.b/new624.m
Meth Date : 27-Oct-98 13:51:45 dave Quant Type: ISTD
Cal Date : 27-OCT-98 13:26:00 Cal File: v5863.d
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: hpvoa

Concentration Formula: 5/Vo

Name	Value	Description
Vo	5.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
98 Dichlorodifluoromethane	85	3.666	3.666	(0.416)	225102	5.0	4.2(M)
1 Chloromethane	50	3.889	3.889	(0.441)	131077	5.0	5.0
4 Vinyl Chloride	62	4.126	4.126	(0.468)	109698	5.0	5.0
3 Bromomethane	94	4.630	4.630	(0.525)	85000	5.0	5.5
5 Chloroethane	64	4.778	4.778	(0.542)	61916	5.0	4.2
9 Trichlorofluoromethane	101	5.268	5.268	(0.598)	123268	5.0	4.5
101 n-Pentane	72	5.357	5.357	(0.608)	57846	5.0	6.4(M)
46 Ethyl Ether	59	5.653	5.653	(0.642)	127815	5.0	4.9(a)
113 Isoprene	67	5.698	5.698	(0.647)	174944	5.0	4.6(a)
47 Acrolein	56	5.861	5.861	(0.665)	239363	100	94
48 Freon TF	101	6.039	6.039	(0.685)	421589	5.0	4.9(a)
10 1,1-Dichloroethene	96	6.039	6.039	(0.685)	173668	5.0	4.7
7 Acetone	43	6.083	6.083	(0.690)	73094	5.0	6.4(M)
50 Acetonitrile	39	6.528	6.528	(0.741)	220785	100	94(aM)
111 Allyl Chloride	76	6.484	6.484	(0.736)	459866	5.0	4.4(a)
8 Carbon Disulfide	78	6.528	6.528	(0.741)	62288	5.0	4.5
6 Methylene Chloride	84	6.706	6.706	(0.761)	200402	5.0	5.2
51 TBA	59	6.825	6.825	(0.774)	184720	100	98(a)

305966

Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5863.d
Report Date: 27-Oct-98 13:52:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	52 Acrylonitrile	53	7.003	7.003	(0.795)	316483	50	48(a)
	53 MTBE	73	7.077	7.077	(0.803)	361644	5.0	4.8
	12 trans-1,2-Dichloroethene	96	7.106	7.106	(0.806)	188411	5.0	4.7
	11 1,1-Dichloroethane	63	7.685	7.685	(0.872)	343200	5.0	4.6
	55 DIPE	45	7.729	7.729	(0.877)	691616	5.0	4.6
	18 2-Butanone	72	8.471	8.471	(0.961)	25863	5.0	7.4(M)
	13 cis-1,2-Dichloroethene	96	8.485	8.485	(0.963)	193591	5.0	4.6
	56 Ethyl Acetate	43	8.485	8.485	(0.963)	267867	10	12
*	2 Bromochloromethane	128	8.812	8.812	(1.000)	801685	30	
	15 Chloroform	83	8.886	8.886	(1.008)	363714	5.0	4.7
	20 1,1,1-Trichloroethane	97	9.182	9.182	(1.042)	276062	5.0	4.5
	59 Cyclohexane	56	9.286	9.286	(1.054)	288114	5.0	4.6(a)
	21 Carbon Tetrachloride	117	9.405	9.405	(1.067)	276921	5.0	4.4
$	16 1,2-Dichloroethane-d4 (SUR)	104	9.538	9.538	(0.947)	177532	30	29
	61 Isopropyl Acetate	43	9.598	9.598	(0.953)	639019	10	9.3
	17 1,2-Dichloroethane	62	9.642	9.642	(0.957)	238494	5.0	4.7
	28 Benzene	78	9.642	9.642	(0.957)	459294	5.0	4.6
*	19 1,4-Difluorobenzene	114	10.072	10.072	(1.000)	3062753	30	
	25 Trichloroethene	95	10.443	10.443	(1.037)	222219	5.0	4.5
	23 1,2-Dichloropropane	63	10.710	10.710	(1.063)	182876	5.0	4.5
	108 Methyl Methacrylate	100	10.754	10.754	(1.068)	40092	5.0	4.3(a)
	64 Propyl Acetate	43	10.813	10.813	(1.074)	320387	10	10
	100 1,4-Dioxane	88	10.828	10.828	(1.075)	251555	1000	1100
	22 Bromodichloromethane	83	11.021	11.021	(1.094)	325148	5.0	4.4
	30 2-Chloroethyl Vinyl Ether	63	11.332	11.332	(1.125)	105707	5.0	4.5
	110 Epichlorohydrin	57	11.421	11.421	(1.134)	253976	100	87(a)
	24 cis-1,3-Dichloropropene	75	11.555	11.555	(1.147)	249292	5.0	4.4
	33 4-Methyl-2-Pentanone	43	11.688	11.688	(1.160)	123624	5.0	4.5(a)
$	37 Toluene-d8 (SUR)	98	11.896	11.896	(0.875)	2719335	30	28
	38 Toluene	91	11.985	11.985	(0.881)	527472	5.0	4.5
	29 trans-1,3-Dichloropropene	75	12.192	12.192	(0.896)	208516	5.0	4.2
	27 1,1,2-Trichloroethane	83	12.430	12.430	(0.914)	146489	5.0	4.4
	35 Tetrachloroethene	166	12.667	12.667	(0.931)	275312	5.0	4.3
	34 2-Hexanone	43	12.667	12.667	(0.931)	57161	5.0	3.7(a)
	65 Butyl Acetate	43	12.771	12.771	(0.939)	295137	10	8.3(M)
	26 Dibromochloromethane	129	12.919	12.919	(0.950)	281483	5.0	4.2
	66 1,2-Dibromoethane	107	13.097	13.097	(0.963)	244160	5.0	4.3
*	32 Chlorobenzene-d5	117	13.601	13.601	(1.000)	2220248	30	
	39 Chlorobenzene	112	13.631	13.631	(1.002)	397185	5.0	4.4
	114 1,1,1,2-Tetrachloroethane	131	13.705	13.705	(1.008)	216132	5.0	4.4
	40 Ethylbenzene	106	13.720	13.720	(1.009)	164608	5.0	4.4
	43 m+p-Xylene	106	13.838	13.838	(1.017)	450356	10	8.4
	44 o-Xylene	106	14.283	14.283	(1.050)	208603	5.0	4.4
	42 Styrene	104	14.298	14.298	(1.051)	317596	5.0	4.1
	31 Bromoform	173	14.550	14.550	(1.070)	186860	5.0	3.9
$	41 Bromofluorobenzene (SUR)	174	14.876	14.876	(1.094)	1220224	30	27
	36 1,1,2,2-Tetrachloroethane	83	14.965	14.965	(1.100)	235303	5.0	4.5

305967

Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5863.d
Report Date: 27-Oct-98 13:52:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
67 1,3-Dichlorobenzene	146	16.048	16.048	(1.180)	294105	5.0	4.4
68 1,4-Dichlorobenzene	146	16.122	16.122	(1.185)	397040	5.0	4.2
112 Benzyl Chloride	91	16.240	16.240	(1.194)	244251	5.0	4.2(a)
69 1,2-Dichlorobenzene	146	16.552	16.552	(1.217)	320771	5.0	4.6
107 1,2,4-Trichlorobenzene	180	18.316	18.316	(1.347)	275012	5.0	5.9
70 Naphthalene	128	18.628	18.628	(1.370)	485132	5.0	6.6
M 14 1,2-Dichloroethene (total)	100				382002	10	9.4
M 45 Xylene (Total)	100				658959	15	13

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

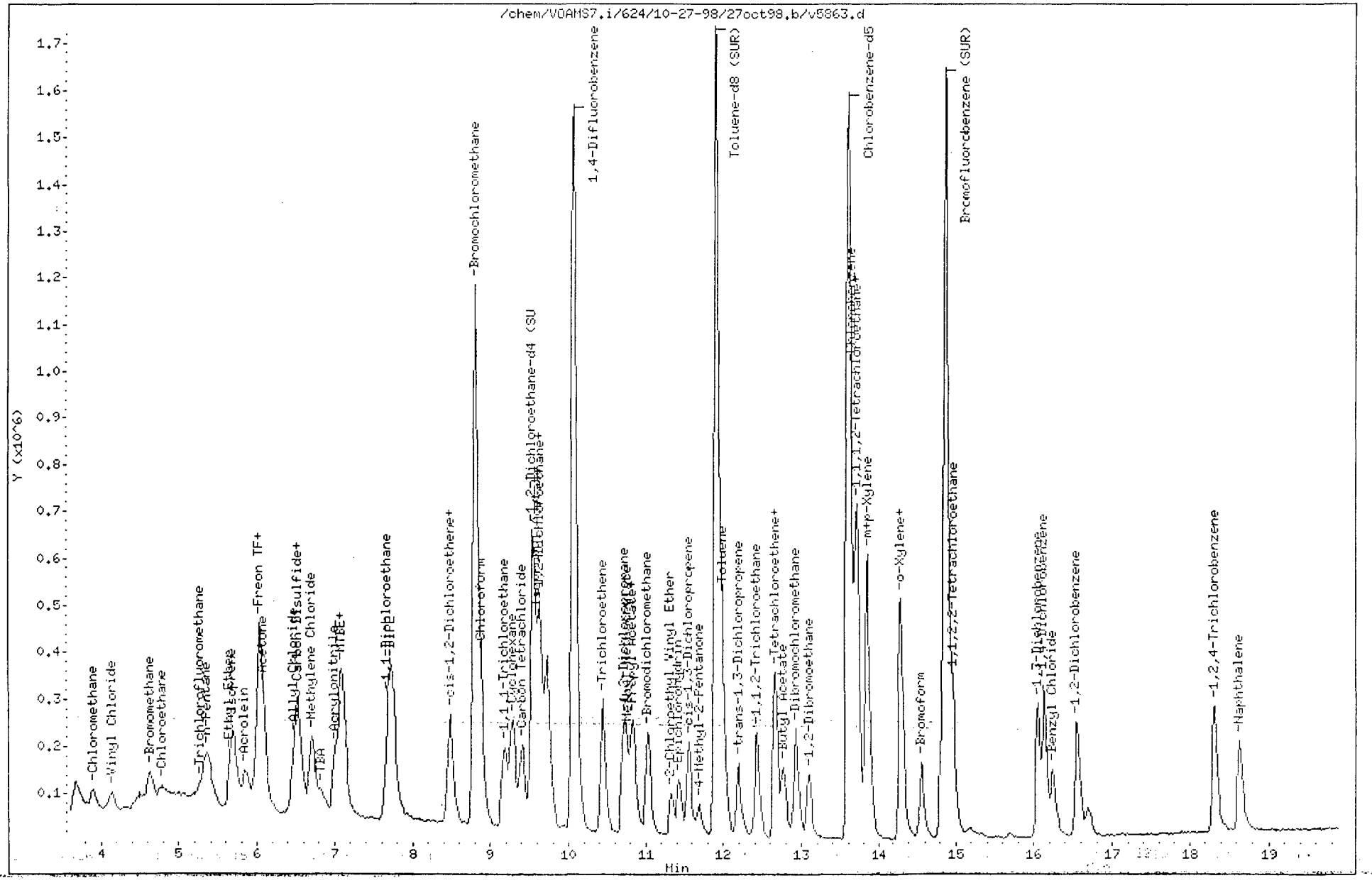
305968

Data File: /chem/VOAMS7.i/624/10-27-98/27oct98.b/v5863.d
Date : 27-OCT-1998 13:26
Client ID: VSTD005
Sample Info: VSTD005
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAMS7.i
Operator: VOAMS 7
Column diameter: 0.53

305969

125



VOLATILE SYSTEM MONITORING COMPOUND RECOVERY
METHOD 624

Matrix: WATER Level: LOW Lab Job No: I280

	LAB SAMPLE NO.	S1 #	S2 #	S3 #	OTHER	TOT OUT
01	VV296	94	101	94		0
02	90839	98	100	98		0
03	90840	91	103	96		0
04	VV300	97	98	95		0
05	90838	100	96	95		0
06						
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30						

		QC LIMITS
S1	= 1,2-Dichloroethane-d4	(86-113)
S2	= Toluene-d8	(83-121)
S3	= Bromofluorobenzene	(86-112)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

305970

VOLATILE SPIKE RECOVERY SUMMARY
METHOD 624

Matrix: WATER

Level: LOW

Matrix Spike - Lab Sample No.: 91560

MS Sample from Lab Job No: I399

QA Batch: 8397

Compound	MS % REC.	BS % REC.	LIMITS
Chloromethane	75	90	0-273
Bromomethane	80	110	0-242
Vinyl Chloride	100	115	0-251
Chloroethane	105	150	14-230
Methylene Chloride	90	95	0-221
Trichlorofluoromethane	85	95	17-181
1,1-Dichloroethene	95	100	0-234
1,1-Dichloroethane	88	95	59-155
trans-1,2-Dichloroethene	90	95	54-156
Chloroform	90	100	51-138
1,2-Dichloroethane	90	100	49-155
1,1,1-Trichloroethane	95	100	52-162
Carbon Tetrachloride	90	95	70-140
Bromodichloromethane	90	100	35-155
1,2-Dichloropropane	90	95	0-210
cis-1,3-Dichloropropene	80	85	0-227
Trichloroethene	85	90	71-157
Dibromochloromethane	85	95	53-149
1,1,2-Trichloroethane	85	95	52-150
Benzene	91	95	37-151
trans-1,3-Dichloropropene	80	95	17-183
2-Chloroethyl Vinyl Ether	0	90	0-305
Bromoform	80	90	45-169
Tetrachloroethene	85	100	64-148
1,1,2,2-Tetrachloroethane	85	90	46-157
Toluene	80	90	47-150
Chlorobenzene	85	100	37-160
Ethylbenzene	95	100	37-162
1,3-Dichlorobenzene	70	80	59-156
1,4-Dichlorobenzene	80	95	18-190

* Values outside of QC limits

305971

VOLATILE SPIKE RECOVERY SUMMARY
METHOD 624

Matrix: WATER

Level: LOW

Matrix Spike - Lab Sample No.: 91560

MS Sample from Lab Job No: I399

QA Batch: 8397

Compound	MS % REC.	BS % REC.	LIMITS
1,2-Dichlorobenzene	80	95	18-190

* Values outside of QC limits

Spike Recovery: 0 out of 62 outside limits

COMMENTS: _____

305972

Data File: /chem/VOAMS7.i/624/10-21-98/23oct98.b/v5738.d
Report Date: 26-Oct-98 08:59:16

Envirotech Research, Inc.

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-21-98/23oct98.b/v5738.d
Lab Smp Id: 91560 Client Smp ID: MW-2
Inj Date : 23-OCT-98 13:33:00
Operator : VOAMS 7 Inst ID: VOAMS7.i
Smp Info : 91560
Misc Info : I399;8397;;LD
Comment :
Method : /chem/VOAMS7.i/624/10-21-98/23oct98.b/new624.m
Meth Date : 23-Oct-98 16:15:32 dave Quant Type: ISTD
Cal Date : 21-OCT-98 13:08:00 Cal File: v5656.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.20
Procesing Host: hpvoa

Concentration Formula: 5/Vo

Name	Value	Description
Vo	5.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
M 14 1,2-Dichloroethene (total)	100				32367	0.78	0.78
5 Chloroethane	64	5.151	4.822	(0.573)	21443	2.1	2.1
11 1,1-Dichloroethane	63	7.909	7.758	(0.880)	569519	7.5	7.5
* 2 Bromochloromethane	128	8.991	8.885	(1.000)	760652	30	
$ 16 1,2-Dichloroethane-d4 (SUR)	104	9.703	9.612	(0.951)	163583	28	28
28 Benzene	78	9.822	9.730	(0.962)	80609	0.78	0.78
* 19 1,4-Difluorobenzene	114	10.207	10.146	(1.000)	2942264	30	
25 Trichloroethene	95	10.207	10.516	(1.000)	78957	1.5	1.5
$ 37 Toluene-d8 (SUR)	98	12.016	11.984	(0.877)	2580075	31	31
* 32 Chlorobenzene-d5	117	13.707	13.675	(1.000)	1914857	30	
40 Ethylbenzene	106	13.944	13.793	(1.017)	28795	0.83	0.83
$ 41 Bromofluorobenzene (SUR)	174	14.967	14.950	(1.092)	1076258	29	29

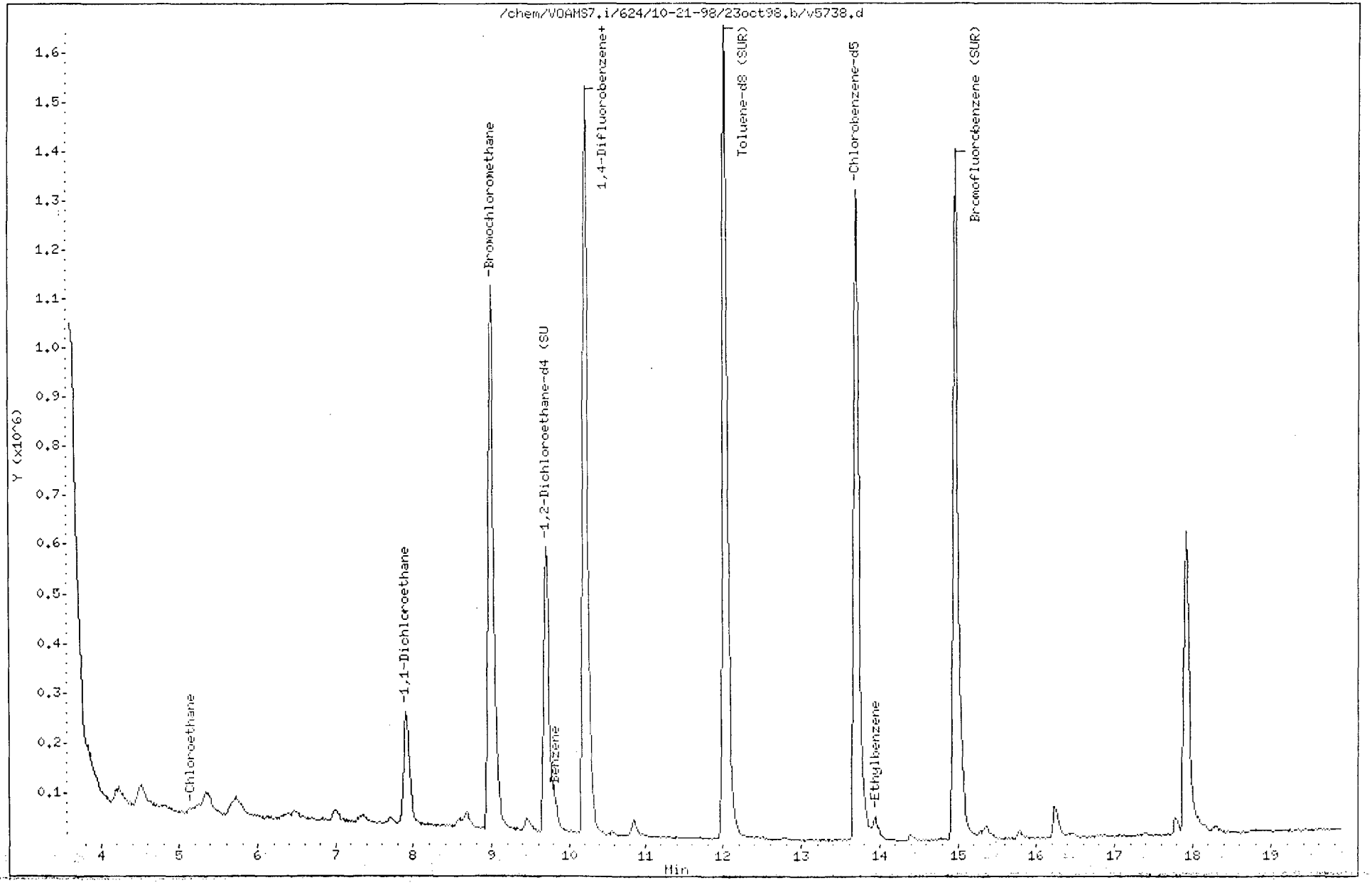
305973

Data File: /chem/VOAMS7.i/624/10-21-98/23oct98.b/v5738.d
Date : 23-OCT-1998 13:33
Client ID: MW-2
Sample Info: 91560
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAMS7.i
Operator: VOAMS 7
Column diameter: 0.53

305974

130



Data File: /chem/VOAMS7.i/624/10-21-98/25oct98.b/v5781.d
Report Date: 26-Oct-98 09:00:47

Envirotech Research, Inc.

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-21-98/25oct98.b/v5781.d
Lab Smp Id: 91560MS Client Smp ID: 91560MS
Inj Date : 25-OCT-98 14:08:00
Operator : VOAMS 7 Inst ID: VOAMS7.i
Smp Info : 91560MS
Misc Info : I399;8397;DB
Comment :
Method : /chem/VOAMS7.i/624/10-21-98/25oct98.b/new624.m
Meth Date : 26-Oct-98 07:38:12 dave Quant Type: ISTD
Cal Date : 21-OCT-98 13:08:00 Cal File: v5656.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: hpvoa

Concentration Formula: 5/Vo

Name	Value	Description
Vo	5.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Chloromethane	50	4.006	3.948	(0.452)	427289	15	15
4 Vinyl Chloride	62	4.258	4.185	(0.480)	458437	20	20
3 Bromomethane	94	4.718	4.674	(0.532)	240864	16	16
5 Chloroethane	64	4.866	4.822	(0.549)	241598	23	23
9 Trichlorofluoromethane	101	5.385	5.297	(0.607)	441084	17	17
10 1,1-Dichloroethene	96	6.141	6.098	(0.692)	721615	19	19
6 Methylene Chloride	84	6.779	6.780	(0.764)	757541	18	18
12 trans-1,2-Dichloroethene	96	7.179	7.180	(0.809)	758243	18	18
11 1,1-Dichloroethane	63	7.743	7.758	(0.873)	1996513	25	25
* 2 Bromochloromethane	128	8.870	8.885	(1.000)	791361	30	
15 Chloroform	83	8.929	8.959	(1.007)	1506112	18	18
20 1,1,1-Trichloroethane	97	9.240	9.256	(1.042)	1192826	19	19
21 Carbon Tetrachloride	117	9.478	9.478	(1.069)	1174347	18	18
$ 16 1,2-Dichloroethane-d4 (SUR)	104	9.596	9.612	(0.949)	183262	32	32
17 1,2-Dichloroethane	62	9.685	9.716	(0.957)	942672	18	18
28 Benzene	78	9.700	9.730	(0.959)	1953548	19	19
* 19 1,4-Difluorobenzene	114	10.115	10.146	(1.000)	2966328	30	
25 Trichloroethene	95	10.486	10.516	(1.037)	887709	17	17

305975

Data File: /chem/VOAMS7.i/624/10-21-98/25oct98.b/v5781.d
Report Date: 26-Oct-98 09:00:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	23 1,2-Dichloropropane	63	10.753	10.783	(1.063)	783664	18	18
	22 Bromodichloromethane	83	11.079	11.109	(1.095)	1398698	18	18
	24 cis-1,3-Dichloropropene	75	11.598	11.628	(1.147)	972040	16	16
$	37 Toluene-d8 (SUR)	98	11.954	11.984	(0.877)	2703655	29	29
	38 Toluene	91	12.028	12.058	(0.882)	1998210	16	16
	29 trans-1,3-Dichloropropene	75	12.236	12.266	(0.898)	806235	16	16
	27 1,1,2-Trichloroethane	83	12.458	12.503	(0.914)	591841	17	17
	35 Tetrachloroethene	166	12.695	12.741	(0.931)	1147580	17	17
	26 Dibromochloromethane	129	12.962	13.007	(0.951)	1158285	17	17
*	32 Chlorobenzene-d5	117	13.629	13.675	(1.000)	2163629	30	
	39 Chlorobenzene	112	13.674	13.704	(1.003)	1617544	17	17
	40 Ethylbenzene	106	13.748	13.793	(1.009)	750929	19	19
	31 Bromoform	173	14.593	14.639	(1.071)	752633	16	16
$	41 Bromofluorobenzene (SUR)	174	14.919	14.950	(1.095)	1252173	30	30
	36 1,1,2,2-Tetrachloroethane	83	15.008	15.039	(1.101)	831033	17	17
	67 1,3-Dichlorobenzene	146	16.076	16.136	(1.179)	947984	14	14
	68 1,4-Dichlorobenzene	146	16.165	16.210	(1.186)	1502851	16	16
	69 1,2-Dichlorobenzene	146	16.595	16.640	(1.218)	1117446	16	16
M	14 1,2-Dichloroethene (total)	100				758243	18	18

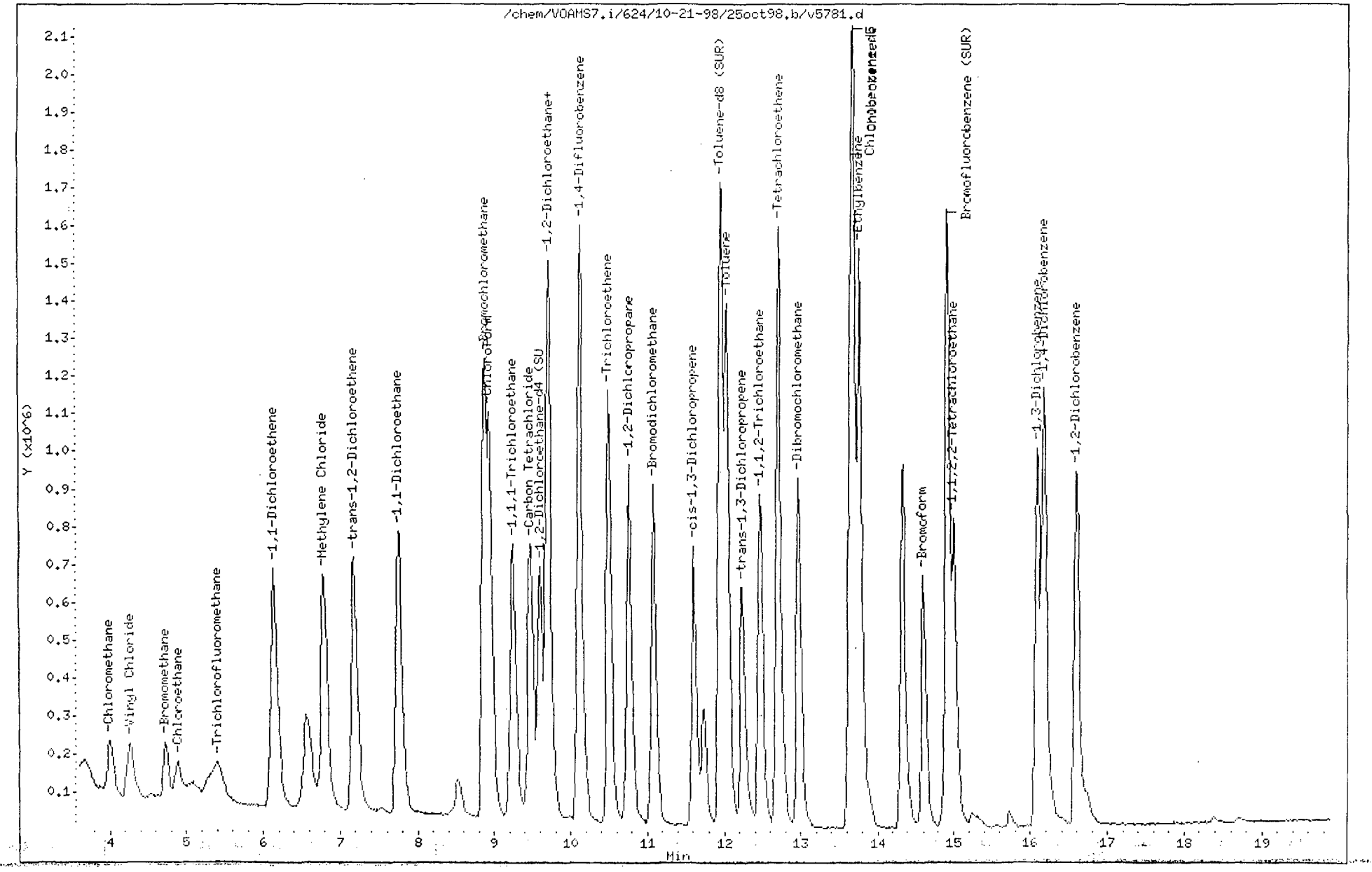
305976

Data File: /chem/VOAMS7.i/624/10-21-98/25oct98.b/v5781.d
Date : 25-OCT-1998 14:08
Client ID: MW-2MS
Sample Info: 91560MS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAMS7.i
Operator: VOAMS 7
Column diameter: 0.53

305977

133



Data File: /chem/VOAMS7.i/624/10-21-98/25oct98.b/v5782.d
Report Date: 26-Oct-98 09:00:56

Envirotech Research, Inc.

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-21-98/25oct98.b/v5782.d
Lab Smp Id: 91560MSD Client Smp ID: 91560MSD
Inj Date : 25-OCT-98 14:36:00
Operator : VOAMS 7 Inst ID: VOAMS7.i
Smp Info : 91560MSD
Misc Info : I399;8397;DB
Comment :
Method : /chem/VOAMS7.i/624/10-21-98/25oct98.b/new624.m
Meth Date : 26-Oct-98 07:38:12 dave Quant Type: ISTD
Cal Date : 21-OCT-98 13:08:00 Cal File: v5656.d
Als bottle: 2 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: hpvoa

Concentration Formula: 5/Vo

Name	Value	Description
Vo	5.000	Sample Volume

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	1 Chloromethane	50	4.096	3.948	(0.459)	381096	15	15
	4 Vinyl Chloride	62	4.363	4.185	(0.489)	421510	20	20
	3 Bromomethane	94	4.838	4.674	(0.542)	236084	17	17
	5 Chloroethane	64	4.986	4.822	(0.558)	197067	20	20
	9 Trichlorofluoromethane	101	5.505	5.297	(0.616)	398802	17	17
	10 1,1-Dichloroethene	96	6.246	6.098	(0.699)	681213	19	19
	6 Methylene Chloride	84	6.884	6.780	(0.771)	705753	18	18
	12 trans-1,2-Dichloroethene	96	7.269	7.180	(0.814)	702373	18	18
	11 1,1-Dichloroethane	63	7.833	7.758	(0.877)	1815307	25	25
*	2 Bromochloromethane	128	8.930	8.885	(1.000)	733747	30	
	15 Chloroform	83	9.004	8.959	(1.008)	1375958	18	18
	20 1,1,1-Trichloroethane	97	9.301	9.256	(1.042)	1095410	18	18
	21 Carbon Tetrachloride	117	9.523	9.478	(1.066)	1060237	17	17
$	16 1,2-Dichloroethane-d4 (SUR)	104	9.642	9.612	(0.949)	161012	31	31
	17 1,2-Dichloroethane	62	9.746	9.716	(0.959)	867391	18	18
	28 Benzene	78	9.760	9.730	(0.961)	1780448	19	19
*	19 1,4-Difluorobenzene	114	10.161	10.146	(1.000)	2693093	30	
	25 Trichloroethene	95	10.532	10.516	(1.036)	797771	17	17

305978

Data File: /chem/VOAMS7.i/624/10-21-98/25oct98.b/v5782.d
Report Date: 26-Oct-98 09:00:59

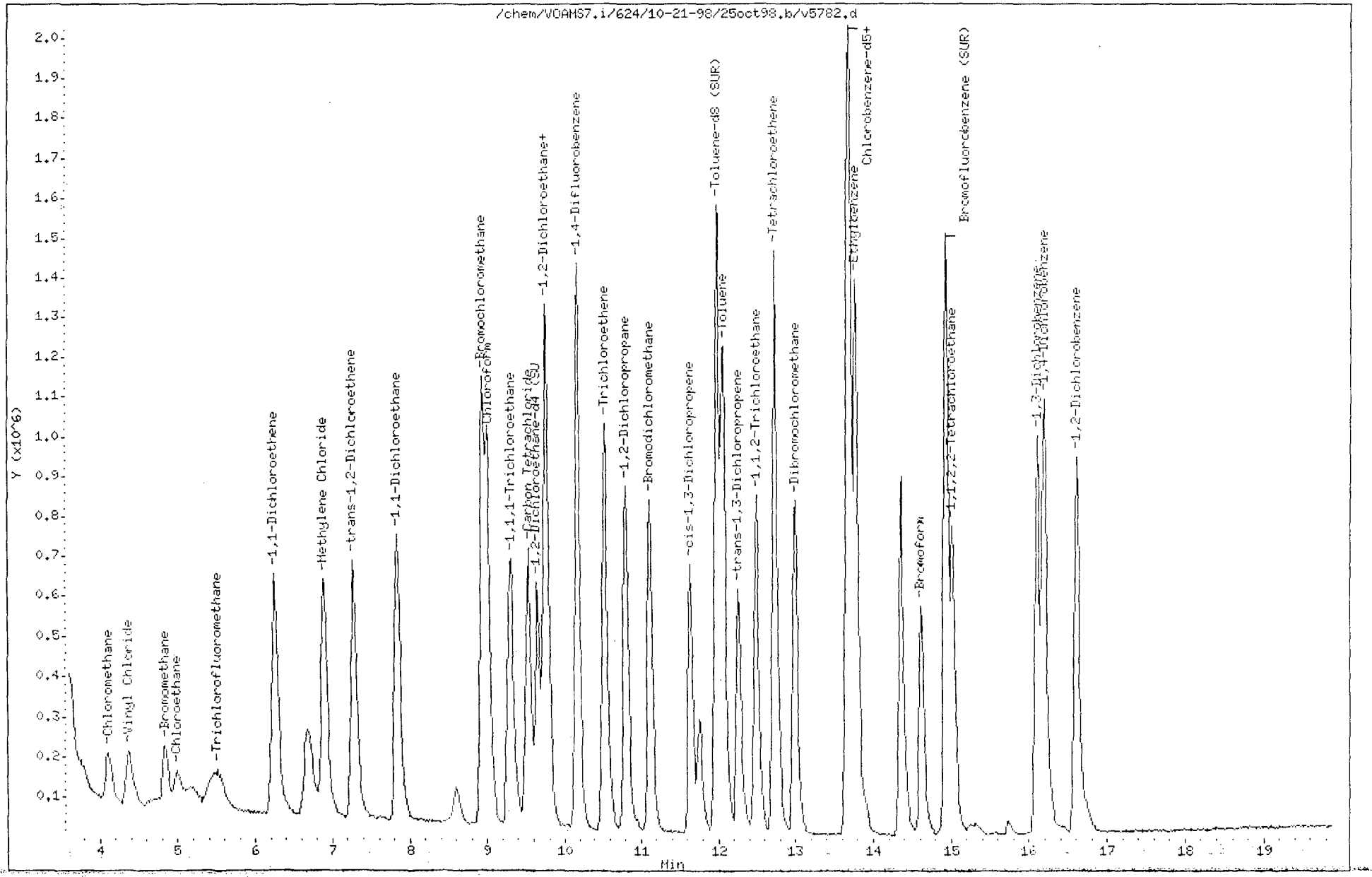
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	23 1,2-Dichloropropane	63	10.798	10.783	(1.063)	694639	18	18
	22 Bromodichloromethane	83	11.110	11.109	(1.093)	1243918	18	18
	24 cis-1,3-Dichloropropene	75	11.629	11.628	(1.144)	857464	16	16
$	37 Toluene-d8 (SUR)	98	11.970	11.984	(0.876)	2448254	29	29
	38 Toluene	91	12.059	12.058	(0.883)	1776380	16	16
	29 trans-1,3-Dichloropropene	75	12.252	12.266	(0.897)	763628	17	17
	27 1,1,2-Trichloroethane	83	12.489	12.503	(0.914)	543914	18	18
	35 Tetrachloroethene	166	12.726	12.741	(0.932)	1049674	17	17
	26 Dibromochloromethane	129	12.993	13.007	(0.951)	1074921	17	17
*	32 Chlorobenzene-d5	117	13.660	13.675	(1.000)	1970974	30	
	39 Chlorobenzene	112	13.690	13.704	(1.002)	1457943	17	17
	40 Ethylbenzene	106	13.764	13.793	(1.008)	672117	19	19
	31 Bromoform	173	14.609	14.639	(1.069)	666175	15	15
$	41 Bromofluorobenzene (SUR)	174	14.921	14.950	(1.092)	1141663	30	30
	36 1,1,2,2-Tetrachloroethane	83	15.010	15.039	(1.099)	774615	17	17
	67 1,3-Dichlorobenzene	146	16.092	16.136	(1.178)	937484	15	15
	68 1,4-Dichlorobenzene	146	16.181	16.210	(1.185)	1380611	16	16
	69 1,2-Dichlorobenzene	146	16.596	16.640	(1.215)	1068584	17	17
M	14 1,2-Dichloroethene (total)	100				702373	18	18

305979

Data File: /chem/VOAMS7.i/624/10-21-98/25oct98.b/v5782.d
Date : 25-OCT-1998 14:36
Client ID: MW-2MSD
Sample Info: 91560MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAMS7.i
Operator: VOAMS 7
Column diameter: 0.53

305980



VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): V5732 Date Analyzed: 10/23/98

Instrument ID: VOAMS7 Time Analyzed: 1013

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	743721	9.12	2734690	10.31	1882199	13.72
	UPPER LIMIT	1487442	9.62	5469380	10.81	3764398	14.22
	LOWER LIMIT	371860	8.62	1367345	9.81	941100	13.22
	LABORATORY SAMPLE NO.						
01	VV296	766205	9.02	2803965	10.24	1856877	13.71
02	90839	713829	9.12	2701411	10.31	1840788	13.74
03	90840	684831	9.12	2534214	10.31	1674595	13.74
04							
05							
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17							
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19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): V5861 Date Analyzed: 10/27/98

Instrument ID: VOAMS7 Time Analyzed: 1230

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	799037	8.86	3098564	10.10	2027034	13.60
	UPPER LIMIT	1598074	9.36	6197128	10.60	4054068	14.10
	LOWER LIMIT	399518	8.36	1549282	9.60	1013517	13.10
	LABORATORY SAMPLE NO.						
01	VV300	809520	8.84	3018002	10.09	2070998	13.60
02	90838	790085	8.81	2868993	10.07	2019255	13.59
03							
04							
05							
06							
07							
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18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

305982

PROJECT VOA 7 02/4

Notebook No. _____

Continued From Page _____

305983

Date	Data file	A/S	Sample	TOB	GA	mg/vol	SCR D.F.	vol. ml	Solvent	CPB	pH	SPD LOT #	Results
10-21-98	V5651	-	VBFB 294			50mg		ml					G
	V5652	1	VSTD 200									V98-452	G
	V5653	2	VSTD 050									V98-453	G
	V5654	3	VSTD 020									V98-455	G
	V5655	4	VSTD 010									V98-457	G
	V5656	5	VSTD 005									V98-456	G
	V5657	6	8363 BS									V98-473	G
	V5658	7	8357 BS									V98-471	G
	V5659	8	VV 294									V98-472	G
	V5660	9	VV 294							VV 294			NG
	V5661	10	88772	1966	8353	5ml			TTT RB				G
	V5662	11	89589	1098	8363	5ml	1000		PP-15				G
	V5663	12	89590			2.5ml	2						G
	V5664	13	89591			5ml							G
	V5665	14	89592			2.5ml	2						RR ST
	V5666	15	89593			5ml							G
	V5667	16	89594										G
	V5668	17	89595										G
	V5669	18	90053	1170	8357				PP-15				G
	V5670	19	90054			2.5ml	2						G
	V5671	20	90055			5ml							G
	V5672	21	90056										G
	V5673	22	90057										G
	V5674	23	90058										G
	V5675	24	90059										G
	V5676	25	90061										G
	V5677	26	90062										G
	V5678	27	90074	1188	8363				PP-DCB				G
	V5679	28	90075										G

Signed _____ Date 10-21-98

Signed _____ Date 11/9/98

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PROJECT VOA 7 G24

Notebook No. 305984

Continued From Page

Date	Date/Time	No.	Sample	Jar	SA	ml/vol	Sep Ft.	VOC Ag	Solids	LPB	pH	STD Copy	Results
10-23-98	V5731	0	VBB296			50 mg		ind					G
	V5732	1	VSTD296									Lima QS	G
	V5733	2	8389 BS									10-11-98	G
	V5734	3	8397 BS									JCC.	G
	V5735	4	VV296										G
	V5736	5	VV296			5 ml			all	VV296			G
	V5737	6	91559	1399	8397				HSCVOA				FF SX
	V5738	7	91560										G
	V5739	8	91561										G
	V5740	9	91562										G
	V5741	10	91563										G
	V5742	11	91564										G
	V5743	12	91565										G
	V5744	13	91559			1 ml	5						G
	V5745	14	91318	1379	X389	5 ml			BICY				[illegible]
	V5746	15	91319										[illegible]
	V5747	16	90366	1399	8389				PP+24 [illegible]				[illegible]
	V5748	17	90331 MS	1398		500 ml	10		all				[illegible]
	V5749	18	90331 MSD										[illegible]
	V5750	19	90696	1364	8389	5 ml			PP MTBA +10				[illegible]
	V5751	20	90697										[illegible]
	V5752	21	90698										[illegible]
	V5753	22	90699			100 ml	50						[illegible]
	V5754	23	90699 MS						all				[illegible]
	V5755	24	90699 MSD										[illegible]
	V5756	25	90700			50 ml	100		PP MTBA +10				[illegible]
	V5757	26	90701										[illegible]
	V5758	27	90702			5 ml							[illegible]
	V5759	28	90703										[illegible]

Signed [illegible] Date 10-23-98

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Signed [illegible] Date 11/9/98

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PROJECT VA7 624

NOTEBOOK NO. _____
Continued From Page _____

305985

Reactor

CG Ion Form

RR Ion Form

Tony

date	datafile	AS	Sample	TOB	GA	wt/vol	SOL	wt/vol	SOLV	CPB	PH	STD CPB
10-23-98	V5760	29	90704	1264	8389	5 ml			PEMBA +10	V6296		
	V5761	30	90705	↓	↓	↓			↓	↓		
	V5762	31	90765	1271	8397	↓			PP 4-9	↓		
	V5763	32	90777	1273	↓	2,500 pp.	2		↓	↓		
	V5764	33	90778	↓	↓	5 ml	↓		↓	↓		
	V5765	34	90779	↓	↓	↓	↓		↓	↓		
	V5766	35	90780	↓	↓	↓	↓		↓	↓		
	V5767	36	90787	1275	↓	↓	↓		↓	↓		
	V5768	37	90838	1280	↓	5000 ml	10		PEMBA	↓		
	V5769	38	90839	↓	↓	↓	↓		↓	↓		
	V5770	39	90840	↓	↓	5 ml	↓		↓	↓		
	V5771	40	90877	1290	↓	↓	↓		↓	↓		
	V5772	41	90878	↓	↓	↓	↓		↓	↓		
	V5773	42	90879	↓	↓	↓	↓		↓	↓		
	V5774	43	90880	↓	↓	↓	↓		↓	↓		

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Signature

Date

Signed

Date 11/9/98

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PROJECT

Notebook No. ____

Continued From Page ____

Date	Data File	Sample #	Int	On	Int/Incl	Sol Vol	Injected	HP		Sol Vol	Pkg
4/5/92	V5775	VPXP 298			Stop						G
	V5776	VPP 299			Start						NG
	V5777	VPD 300									G
	V5778	PB 3411		3411							NG
	V5779	VVC 28									NG
	V5780	VVC 29									
	V5781	9560 NB	1591	5387				0.02778			
	V5782	9560 NB	↓	↓							
	V5783	9575	1407	3411							
	V5784	9580	1264	5389	200 µl	25					
	V5785	9165	1211	5397	Start						
	V5786	BK									
	V5787	9058	1210	5391							
	V5788	~~9756~~ 9756	~~1257~~ 1257	5387	Start						
	V5789	~~9770~~ 9165	↓	↓	~~100 µl~~ Start	50					
	V5790	~~9734~~ 9734			Start						
	V5791	9382	1383	3411							
	V5792	9183	↓								
	V5793	9187									
	V5794	9191									
	V5795	9168	1220								
	V5796	9169			50 µl	10					
	V5797	9165 MB									
	V5798	9169 MB									
	V5799	9170									
	V5800	9171									
	V5801	9172			Start						
	V5802	9172									
	V5803	9174	1401								

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Signed

Date

Witnessed By

Date

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305986

PROJECT

Notebook No. 305987

Continued from Page

Date	Data File	#	Sample #	SSA	QA	Vol/Dil	Dil	Vol Inj	Solvent	LPB	Std Lot #	Results
10/21/13	VST56		VSD 300			5mg		1µL				
	VST57	2	VSD 300			5mL						
	VST58	3	VSD 000									
	VST59	2	VSD 300									
	VST60	3	VSD 030									
	VST61	4	VSD 120									
	VST62	5	VSD 010									
	VST63	6	VSD 005									
	VST64	7	VV300									
	VST65	8	VV300									
	VST66	9	VV300									
	VST67	10	VV300									
	VST68	1	90101	I-976	8417				TCL VOA +10	VV300		Not used
	VST69	2	90102									
	VST70	3	VSD 300									
	VST71	4	VSD 300									
	VST72	5	91258	I280	8577	1,000µL	5					Not used
	VST73	6	91271	I360	8413	5mL			TIO VOA +15			
	VST74	7	91917	I455	8417				TCL VOA			
	VST75	8	91917									
	VST76	9	91750			200µL	25					
	VST77	10	91751			1,000µL	5					
	VST78	11	91751 MS									
	VST79	12	91751 MSD									
	VST80	13	91756			200µL	25					
	VST81	14	91757									
	VST82	15	91758			5mL						
	VST83	16	92016	I461	8413				VOA +10			
	VST84	17	91959	I455	8417	5mL	10					

Signature: [illegible] Date: 11/21/13

Signature: [illegible] Date: 10/28/13

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Client ID: **DSSR-1**
Site: Klockner & Klockner

Lab Sample ID: **90838**
Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Date Extracted: 10/21/98
Date Analyzed: 10/27/98
GC Column: DB-608
Instrument ID: PESTGC6.i

Matrix: WATER
Sample Volume: 990 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Lab File ID: nr004375.d

ORGANOCHLORINE PCBs - GC/ECD
METHOD 608

Parameter	Analytical Results Units: ug/l	Method Detection Limit Units: ug/l
Aroclor-1016	ND	0.30
Aroclor-1221	ND	0.30
Aroclor-1232	ND	0.40
Aroclor-1242	ND	0.20
Aroclor-1248	ND	0.30
Aroclor-1254	ND	0.40
Aroclor-1260	ND	0.20
Aroclor-1262	ND	0.20
Aroclor-1268	ND	0.20

305988

Client ID: **DSRW-1**
Site: Klockner & Klockner

Lab Sample ID: **90839**
Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Date Extracted: 10/21/98
Date Analyzed: 10/27/98
GC Column: DB-608
Instrument ID: PESTGC6.i

Matrix: WATER
Sample Volume: 920 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Lab File ID: nr004398.d

ORGANOCHLORINE PCBs - GC/ECD
METHOD 608

Parameter	Analytical Results Units: ug/l	Method Detection Limit Units: ug/l
Aroclor-1016	ND	0.30
Aroclor-1221	ND	0.30
Aroclor-1232	ND	0.40
Aroclor-1242	ND	0.20
Aroclor-1248	ND	0.30
Aroclor-1254	ND	0.40
Aroclor-1260	ND	0.20
Aroclor-1262	ND	0.20
Aroclor-1268	ND	0.20

305989

GC ORGANICS SURROGATE RECOVERY

Matrix: WATER Level: LOW Lab Job No: I280

	LABORATORY SAMPLE NO.	TCX %REC #	DCB %REC #	TOT OUT
01	WP294	80	54	0
02	90838	66	24	0
03	90839	56	6*	1
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		ADVISORY QC LIMITS
S1 (TCX)	= Tetrachloro-m-xylene	(40-112)
S2 (DCB)	= Decachlorobiphenyl	(23-142)

Column to be used to flag recovery values
* Values outside of advisory QC limits
D Surrogate diluted out
R Surrogate removed during H2SO4 cleanup procedure
** Not detected due to coeluting interference

305990

GC ORGANICS MATRIX SPIKE/BLANK SPIKE RECOVERY SUMMARY
METHOD 608

Matrix: WATER

Level: LOW

Matrix Spike - Lab Sample No.: 91285

MS Sample from Lab Job No: I363

QA Batch: 5006

Compound	MS % REC.	BS % REC.	LIMITS
Aroclor-1016	104	104	50-114
Aroclor-1260	74	90	8-127

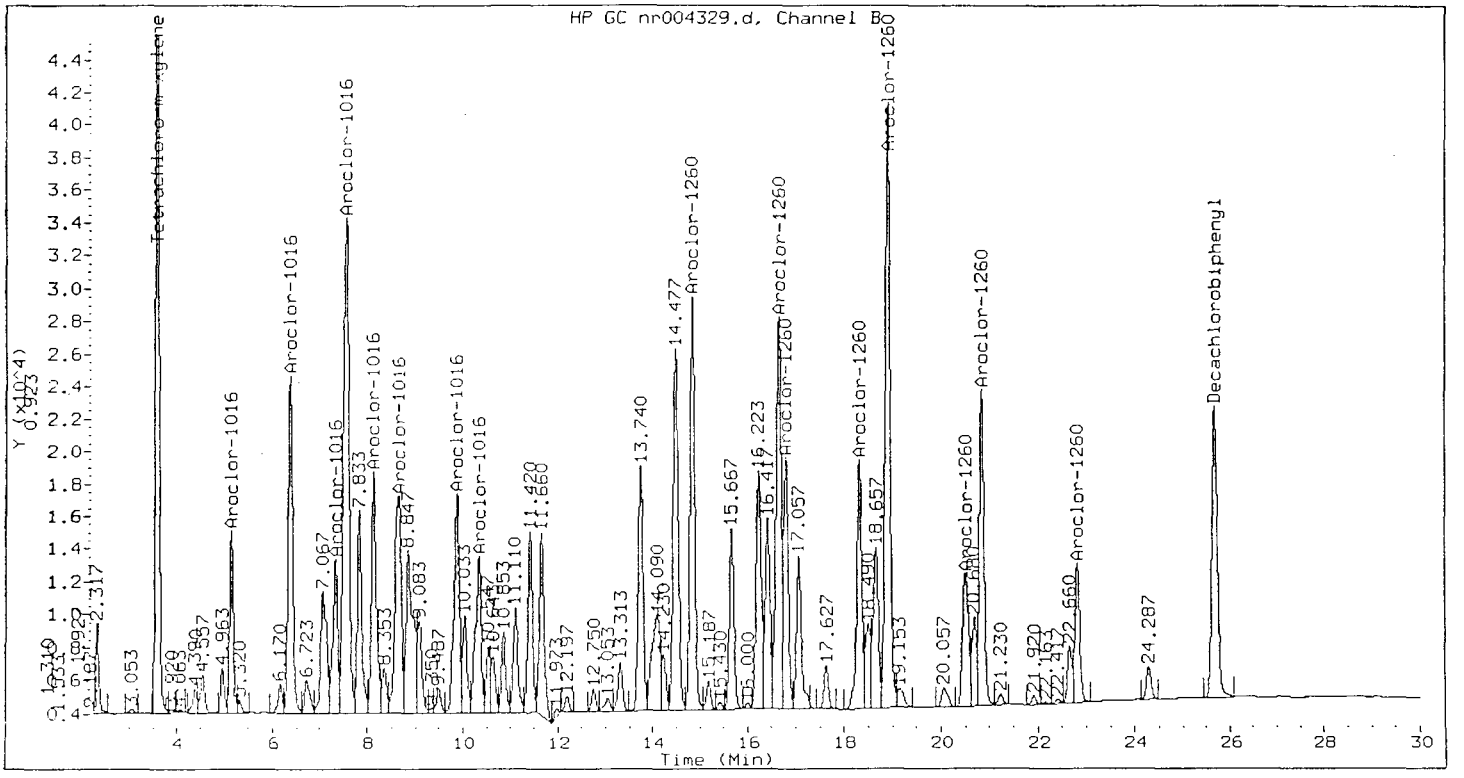
* Values outside of QC limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

305991

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-22-98/22oct98b.b/nr004329.d Page 1
Report Date 10/27/1998 10:59



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-22-98/22oct98b.b/Nr608.m
Sample Info : 5006BS;1000;5;
Lab ID : 5006BS
Inj Date : 23-OCT-1998 23:00
Operator : DMW
Cpnd Sublist: PCB+

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: BS

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aroclor-1016	(M)	5.143	5.178	0.035	60131	936.758	4.684
(2)		6.373	6.411	0.037	134841	1008.651	5.043
(3)		7.340	7.377	0.037	63477	1026.546	5.133
(4)		7.563	7.597	0.034	246150	1029.608	5.148
(5)		8.127	8.164	0.037	101348	1101.918	5.510
(6)		8.650	8.684	0.034	123013	1127.665	5.638
(7)		9.873	9.911	0.037	102618	1058.775	5.294
(8)		10.343	10.382	0.039	81415	1099.988	5.500
Average of peak concentrations:							5.20
Aroclor-1260	(M)	14.837	14.873	0.036	172202	937.072	4.685
(2)		------	16.682	------	------	------	------ (*)
(3)		16.790	16.827	0.037	102080	885.185	4.426
(4)		18.307	18.347	0.040	109840	929.628	4.648
(5)		18.890	18.929	0.039	261099	911.856	4.559
(6)		20.497	20.534	0.037	69794	887.136	4.436

305992

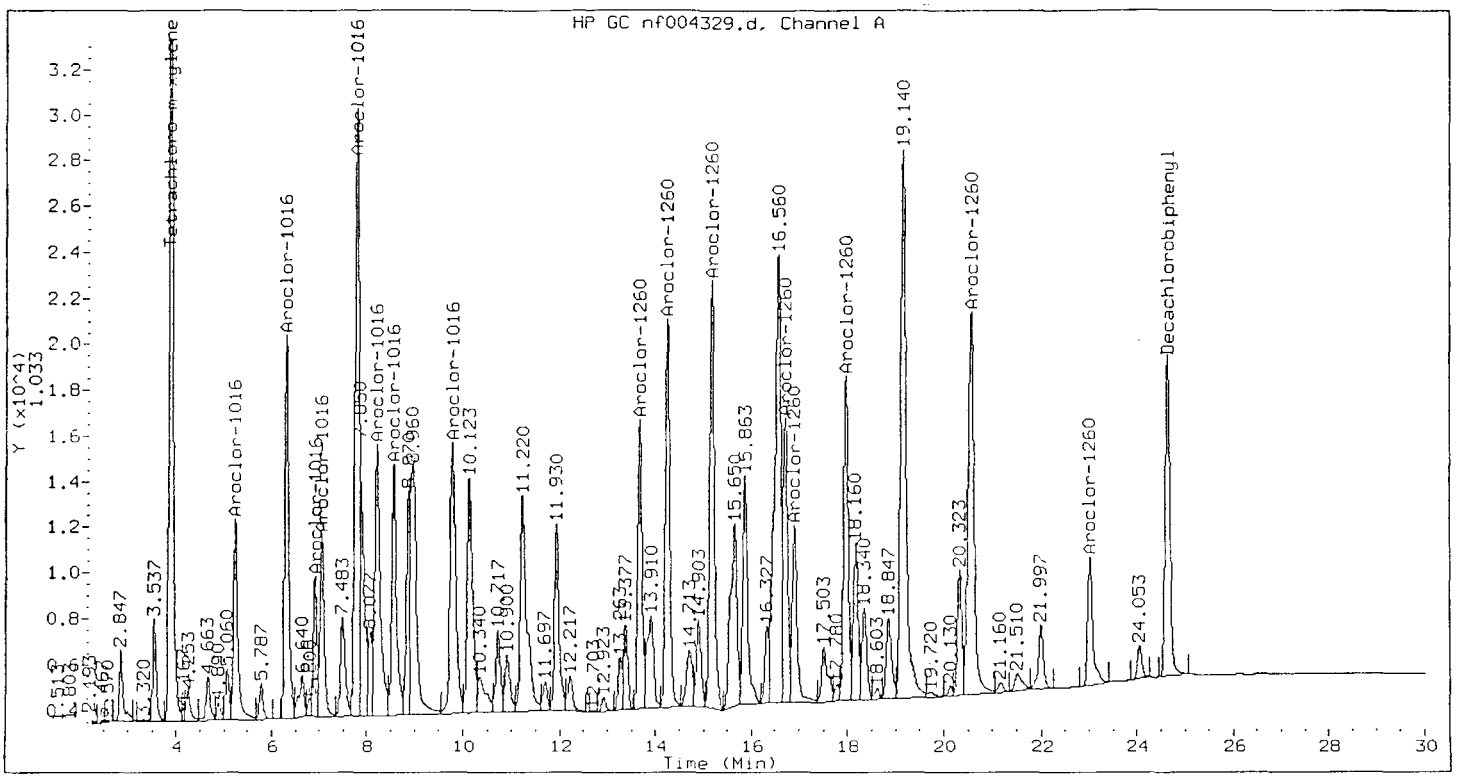
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)		20.833	20.873	0.040	133081	911.447	4.557
(8)		22.813	22.852	0.039	58102	883.611	4.418
Average of peak concentrations:							4.50
Tetrachloro-m-xylene	(M)	3.583	3.601	0.017	255614	76.170	0.381
Decachlorobiphenyl		25.677	25.691	0.015	146712	46.042	0.230

COMMENTS:

* - Mutlicomponent peak not used in quantitation of compound.
M - Compound response manually integrated.

305993

Data File: /chem1/PESTGC6.i/608/front/Oct98/10-22-98/22oct98b.b/nf004329.d Page 1
Report Date 10/27/1998 11:01



Method : /chem1/PESTGC6.i/608/front/Oct98/10-22-98/22oct98b.b/Nf608.m
Sample Info : 5006BS;1000;5;
Lab ID : 5006BS
Inj Date : 23-OCT-1998 23:00
Operator : DMW
Cpnd Sublist: PCB+

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: BS

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aroclor-1016	(M)	5.230	5.247	0.017	56043	1122.865	5.614
(2)		6.303	6.323	0.020	97372	1074.313	5.372
(3)		6.910	6.927	0.017	32993	1057.791	5.289
(4)		7.050	7.071	0.021	48480	1115.199	5.576
(5)		7.777	7.794	0.017	164768	915.918	4.580
(6)		8.207	8.224	0.017	94932	1217.492	6.087
(7)		8.563	8.582	0.019	74669	1152.047	5.760
(8)		9.773	9.793	0.020	97450	1108.347	5.542
Average of peak concentrations:							5.50
Aroclor-1260	(M)	13.667	13.688	0.021	78921	1030.066	5.150
(2)		14.240	14.262	0.022	108454	1009.442	5.047
(3)		15.170	15.187	0.017	126566	995.284	4.976
(4)		16.700	16.720	0.020	80676	1010.115	5.051
(5)		16.893	16.911	0.018	55432	1073.454	5.367
(6)		17.957	17.973	0.016	94112	1002.849	5.014

305994

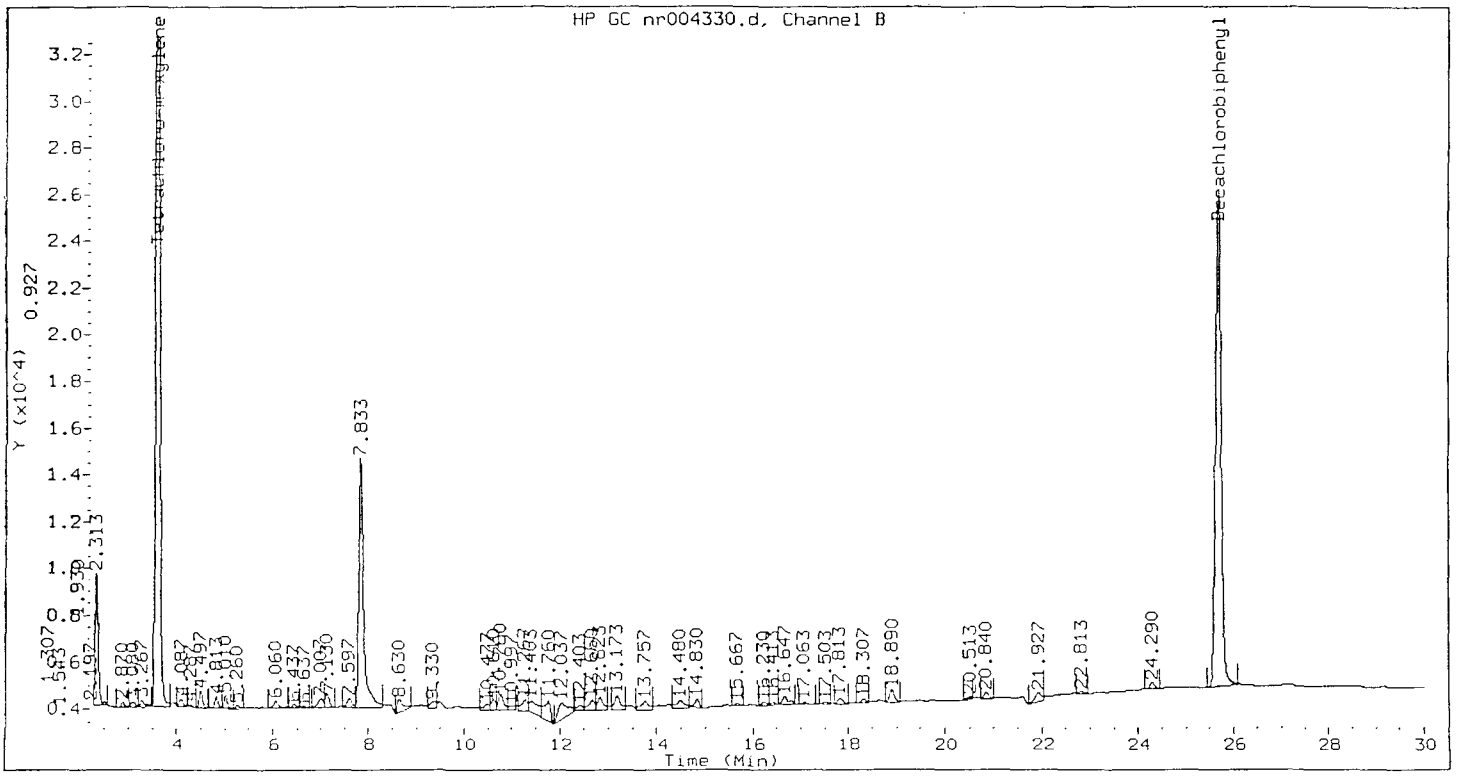
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)		20.553	20.570	0.017	142601	1018.801	5.094
(8)		23.010	23.027	0.017	42684	963.847	4.819
Average of peak concentrations:							5.10
Tetrachloro-m-xylene		3.860	3.864	0.004	220971	77.268	0.386
Decachlorobiphenyl	(M)	24.633	24.646	0.013	98282	47.924	0.240

COMMENTS:

M - Compound response manually integrated.

305995

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-22-98/22oct98b.b/nr004330.d Page 1
Report Date 10/27/1998 11:00

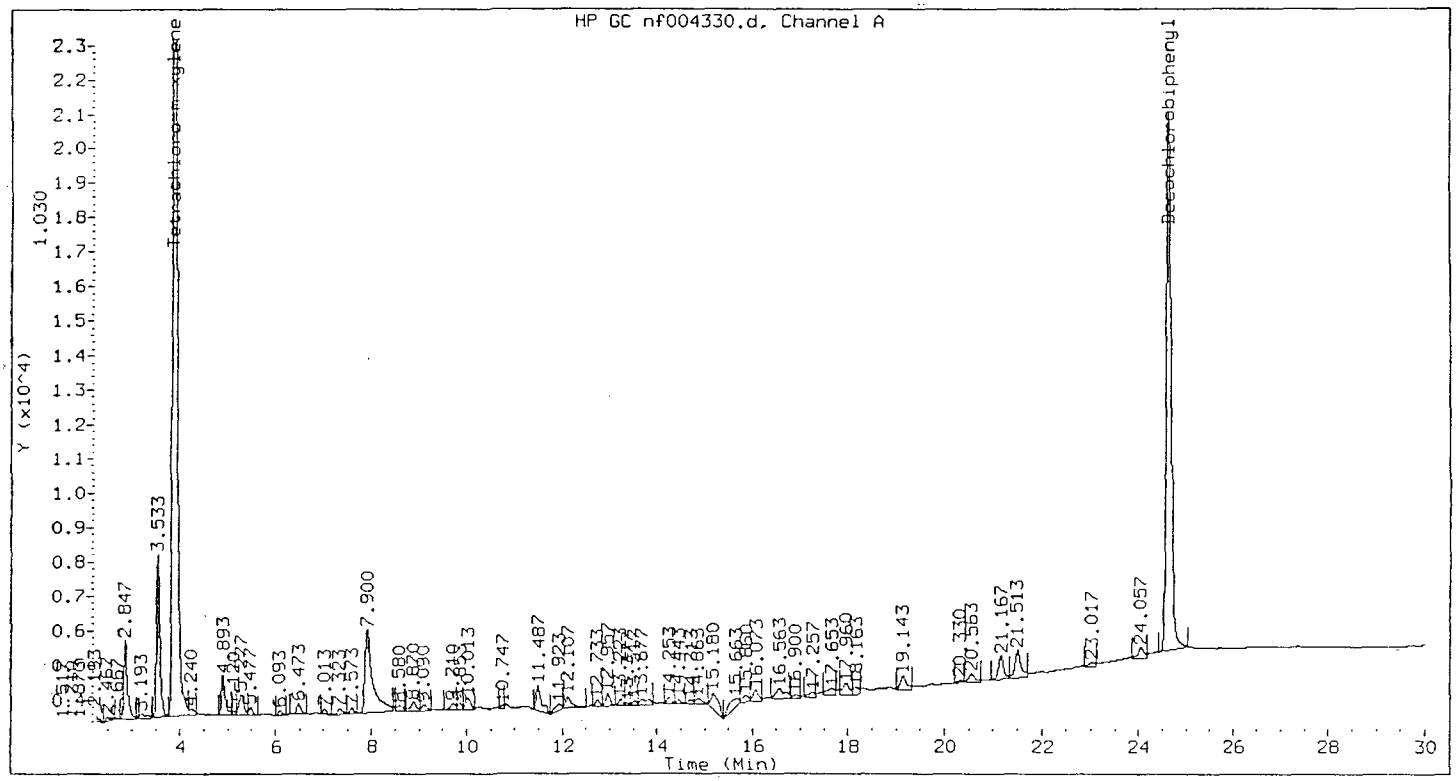


Method : /chem1/PESTGC6.i/608/rear/Oct98/10-22-98/22oct98b.b/Nr608.m
Sample Info : 91285;1000;5;
Lab ID : 91285
Inj Date : 23-OCT-1998 23:32
Operator : DMW
Cpnd Sublist: PCB+
Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Tetrachloro-m-xylene	3.583	3.601	0.017	274439	81.779	0.409
Decachlorobiphenyl	25.683	25.691	0.008	174158	54.656	0.273

305996

Data File: /chem1/PESTGC6.i/608/front/Oct98/10-22-98/22oct98b.b/nf004330.d Page 1
Report Date 10/27/1998 11:01



Method : /chem1/PESTGC6.i/608/front/Oct98/10-22-98/22oct98b.b/Nf608.m
Sample Info : 91285;1000;5;
Lab ID : 91285 Inst ID : PESTGC6.i
Inj Date : 23-OCT-1998 23:32 Dil Factor : 1
Operator : DMW Sample Matrix : WATER
Cpnd Sublist: PCB+ Sample Type: SAMPLE

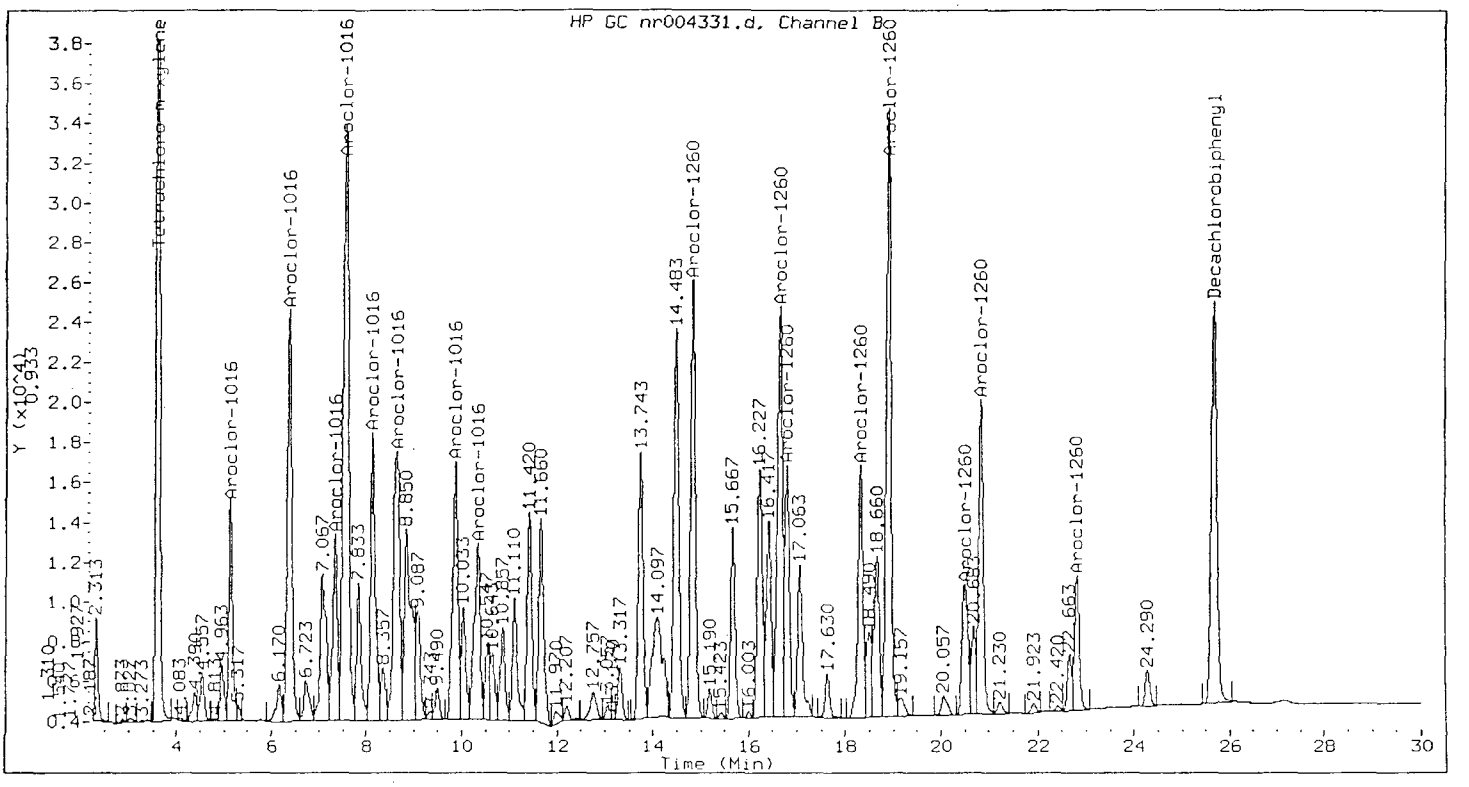
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Tetrachloro-m-xylene	(M)	3.860	3.864	0.004	236665	82.756	0.414
Decachlorobiphenyl	(M)	24.637	24.646	0.009	108358	52.837	0.264

COMMENTS:

M - Compound response manually integrated.

305997

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-22-98/22oct98b.b/nr004331.d Page 1
Report Date 10/27/1998 11:00



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-22-98/22oct98b.b/Nr608.m
Sample Info : 91285MS;1000;5;
Lab ID : 91285MS
Inj Date : 24-OCT-1998 00:04
Operator : DMW
Cpnd Sublist: PCB+

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: MS

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aroclor-1016	(M)	5.140	5.178	0.038	61418	960.545	4.803
(2)		6.373	6.411	0.037	135500	1014.479	5.072
(3)		7.340	7.377	0.037	61187	985.934	4.930
(4)		7.563	7.597	0.034	244252	1020.934	5.105
(5)		8.127	8.164	0.037	98376	1066.953	5.335
(6)		8.647	8.684	0.037	126418	1158.295	5.791
(7)		9.873	9.911	0.037	98081	1007.095	5.035
(8)		10.343	10.382	0.039	77587	1046.696	5.233
Average of peak concentrations:							5.20
Aroclor-1260		14.837	14.873	0.036	146117	776.179	3.881
(2)		------	16.682	------	------	------	------ (*)
(3)		16.793	16.827	0.034	84407	718.743	3.594
(4)		18.310	18.347	0.037	90412	756.784	3.784
(5)		18.893	18.929	0.036	213303	734.457	3.672
(6)		20.500	20.534	0.034	56528	707.691	3.538

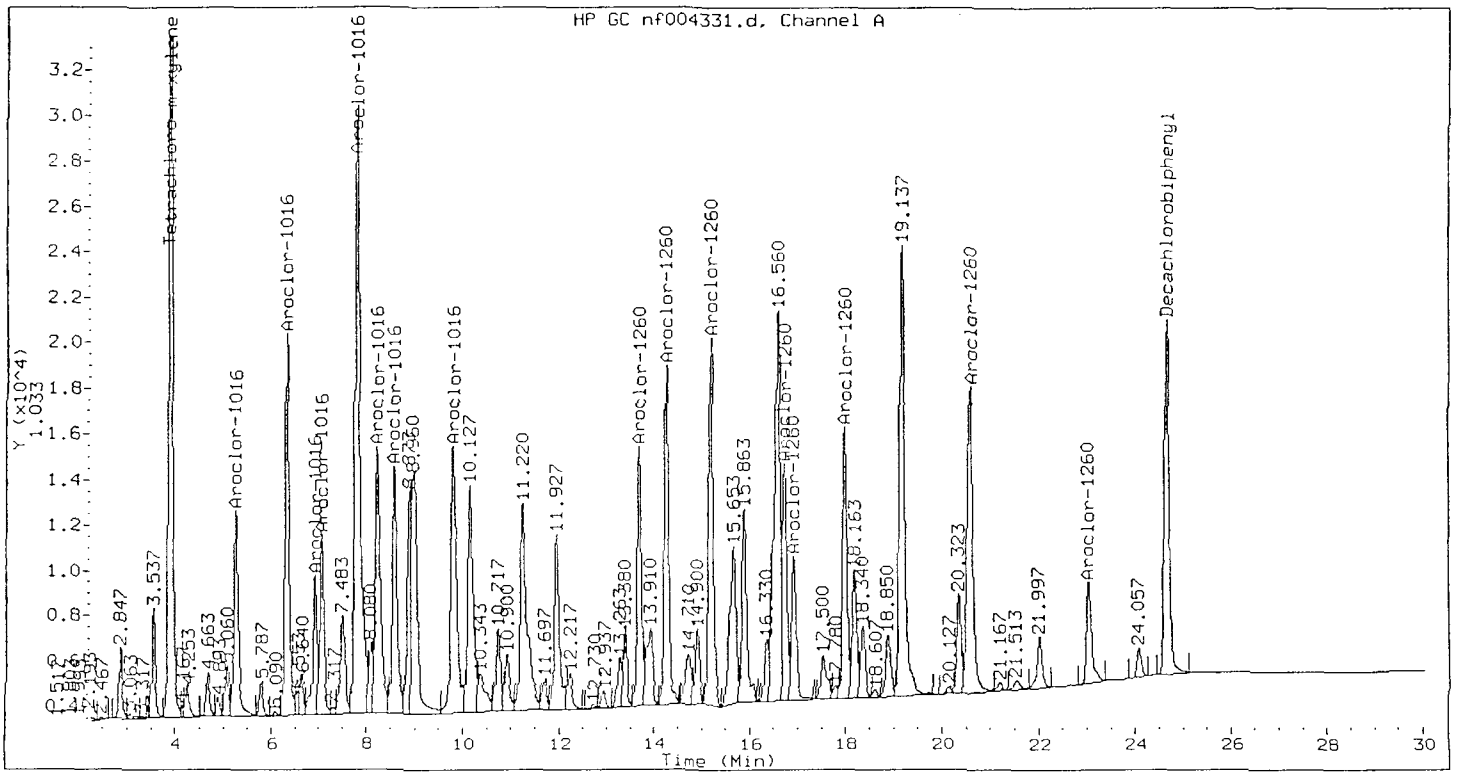
305998

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)	20.837	20.873	0.036	107304	725.417	3.627
(8)	22.817	22.852	0.035	48418	731.882	3.659
Average of peak concentrations:						3.70
Tetrachloro-m-xylene	3.583	3.601	0.017	259834	77.427	0.387
Decachlorobiphenyl	25.683	25.691	0.008	164746	51.702	0.259

COMMENTS:

* - Mutlicomponent peak not used in quantitation of compound.
M - Compound response manually integrated.

305999



Method : /chem1/PESTGC6.i/608/front/Oct98/10-22-98/22oct98b.b/Nf608.m
Sample Info : 91285MS;1000;5;
Lab ID : 91285MS
Inj Date : 24-OCT-1998 00:04
Operator : DMW
Cpnd Sublist: PCB+

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: MS

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aroclor-1016		5.230	5.247	0.017	57824	1160.521	5.803
(2)		6.303	6.323	0.020	97518	1076.114	5.381
(3)		6.910	6.927	0.017	36193	1166.362	5.832
(4)		7.050	7.071	0.021	47207	1083.993	5.420
(5)		7.777	7.794	0.017	204147	1152.050	5.760
(6)		8.207	8.224	0.017	90050	1152.013	5.760
(7)		8.563	8.582	0.019	73159	1128.020	5.640
(8)		9.773	9.793	0.020	100133	1141.339	5.707
Average of peak concentrations:							5.70
Aroclor-1260	(M)	13.670	13.688	0.018	70334	910.770	4.554
(2)		14.243	14.262	0.019	97243	898.486	4.492
(3)		15.173	15.187	0.014	109051	845.606	4.228
(4)		16.700	16.720	0.020	67425	833.128	4.166
(5)		16.893	16.911	0.018	44681	856.587	4.283
(6)		17.957	17.973	0.016	77882	822.924	4.115

306000

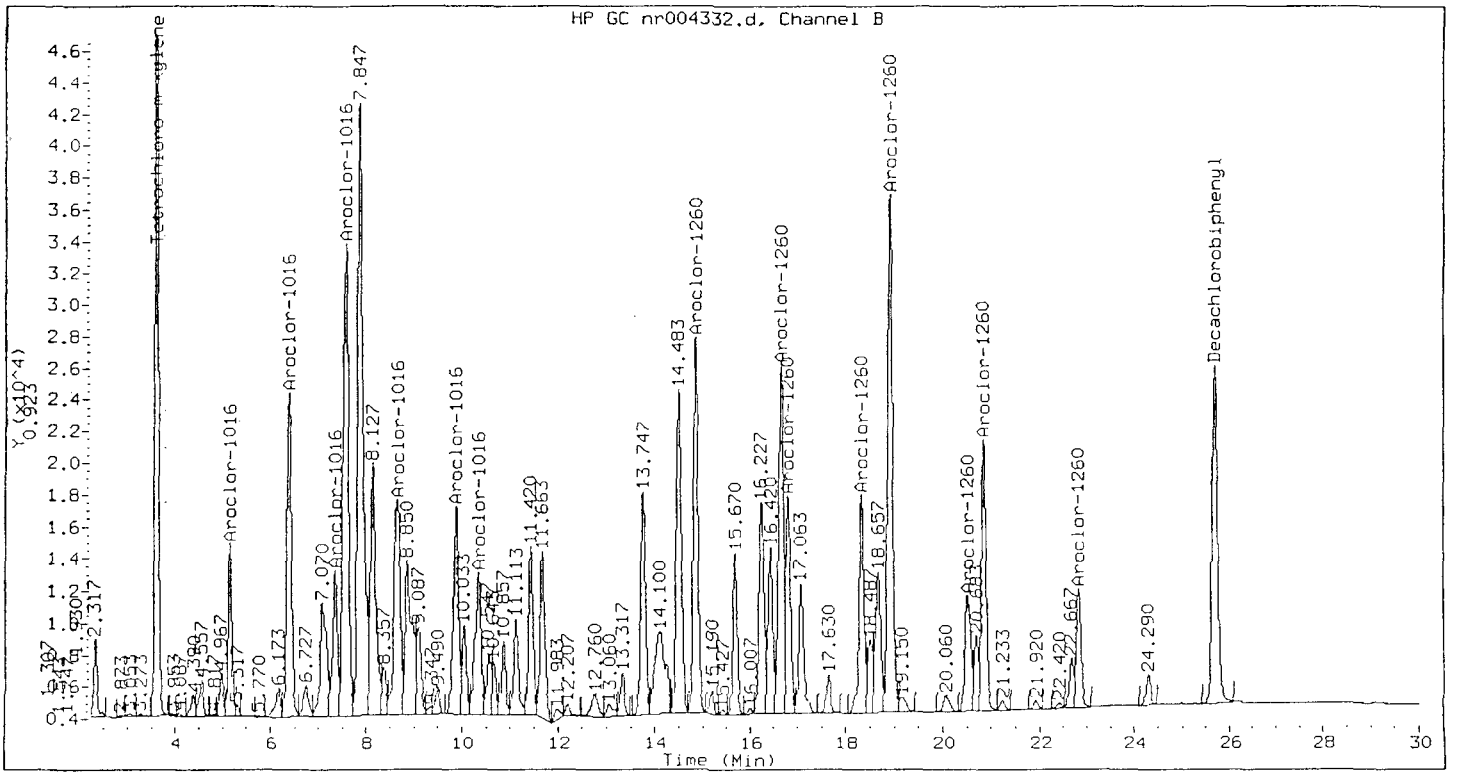
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)		20.560	20.570	0.010	114876	816.425	4.082
(8)		23.013	23.027	0.014	33839	763.467	3.817
Average of peak concentrations:							4.20
Tetrachloro-m-xylene		3.860	3.864	0.004	223258	78.067	0.390
Decachlorobiphenyl	(M)	24.637	24.646	0.009	110119	53.696	0.268

COMMENTS:

M - Compound response manually integrated.

306001

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-22-98/22oct98b.b/nr004332.d Page 1
Report Date 10/27/1998 11:00



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-22-98/22oct98b.b/Nr608.m
Sample Info : 91285MSD;1000;5;
Lab ID : 91285MSD
Inj Date : 24-OCT-1998 00:37
Operator : DMW
Cpnd Sublist: PCB+

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: MSD

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aroclor-1016	(M)	5.143	5.178	0.035	59423	923.740	4.619
(2)		6.377	6.411	0.034	132950	991.964	4.960
(3)		7.340	7.377	0.037	62019	1000.669	5.003
(4)		7.563	7.597	0.034	239804	1000.637	5.003
(5)		------	8.164	------	------	------	------ (*)
(6)		8.650	8.684	0.034	127430	1167.386	5.837
(7)		9.877	9.911	0.034	97721	1003.010	5.015
(8)		10.347	10.382	0.035	76651	1033.675	5.168
Average of peak concentrations:							5.10
Aroclor-1260		14.840	14.873	0.033	157982	848.642	4.243
(2)		------	16.682	------	------	------	------ (*)
(3)		16.790	16.827	0.037	90753	777.969	3.890
(4)		18.310	18.347	0.037	96763	813.021	4.065
(5)		18.893	18.929	0.036	230326	797.282	3.986
(6)		20.497	20.534	0.037	60736	764.245	3.821

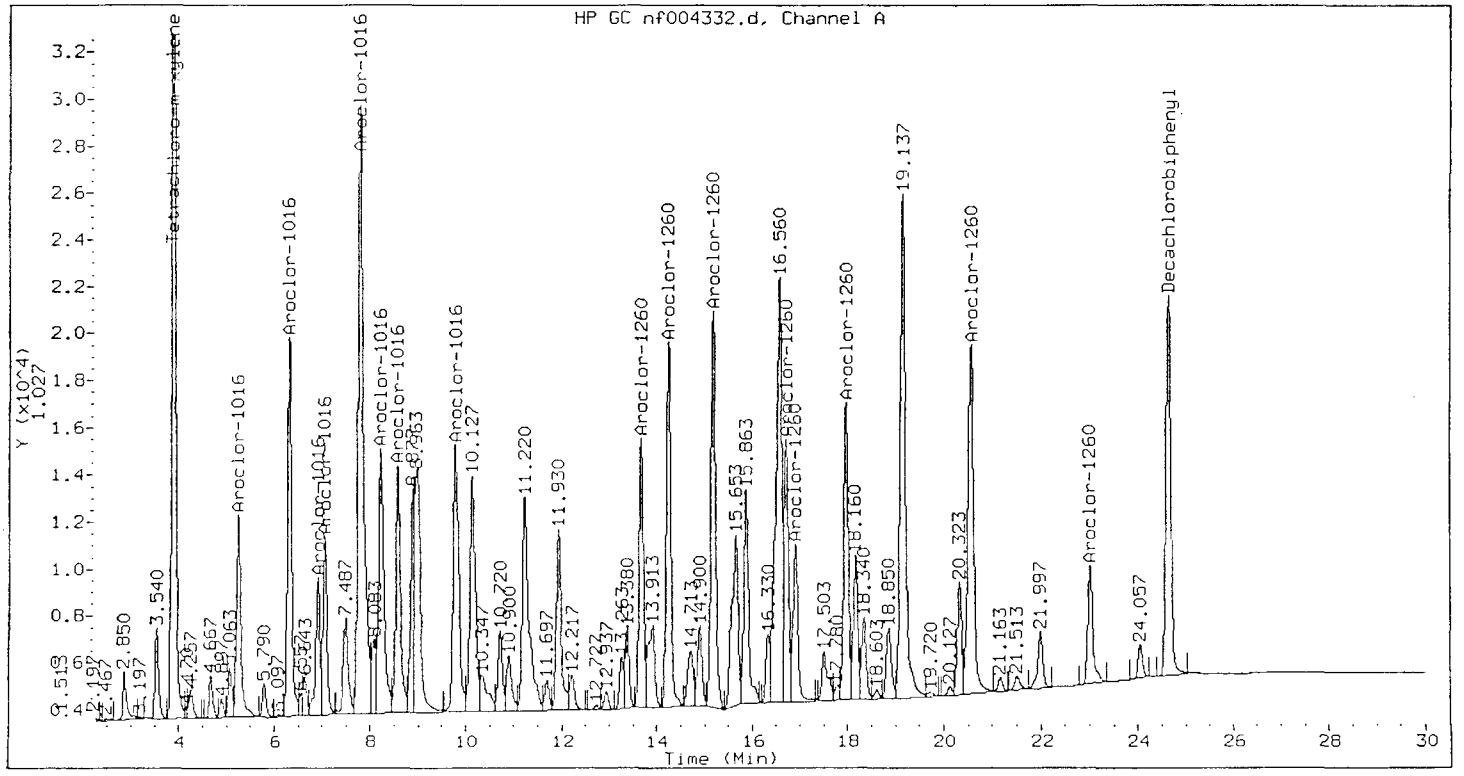
306002

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)	20.837	20.873	0.036	116170	789.042	3.945
(8)	22.820	22.852	0.032	52475	795.372	3.977
Average of peak concentrations:						4.00
Tetrachloro-m-xylene	3.583	3.601	0.017	248946	74.183	0.371
Decachlorobiphenyl	25.683	25.691	0.008	174455	54.749	0.274

COMMENTS:

* - Mutlicomponent peak not used in quantitation of compound.
M - Compound response manually integrated.

306003



Method : /chem1/PESTGC6.i/608/front/Oct98/10-22-98/22oct98b.b/Nf608.m
Sample Info : 91285MSD;1000;5;
Lab ID : 91285MSD
Inj Date : 24-OCT-1998 00:37
Operator : DMW
Cpnd Sublist: PCB+
Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: MSD

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aroclor-1016		5.233	5.247	0.014	56002	1121.999	5.610
(2)		6.307	6.323	0.016	94664	1040.993	5.205
(3)		6.910	6.927	0.017	34689	1115.270	5.576
(4)		7.053	7.071	0.018	44922	1028.124	5.141
(5)		7.780	7.794	0.014	205809	1162.075	5.810
(6)		8.207	8.224	0.017	88533	1131.690	5.658
(7)		8.563	8.582	0.019	70870	1091.608	5.458
(8)		9.773	9.793	0.020	94565	1072.955	5.365
Average of peak concentrations:							5.50
Aroclor-1260	(M)	13.670	13.688	0.018	72694	943.479	4.717
(2)		14.240	14.262	0.022	100400	929.679	4.648
(3)		15.167	15.187	0.020	114961	895.929	4.480
(4)		16.700	16.720	0.020	71237	883.922	4.420
(5)		16.897	16.911	0.014	47868	920.723	4.604
(6)		17.957	17.973	0.016	83026	879.895	4.399

306004

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)		20.557	20.570	0.013	125013	890.610	4.453
(8)		23.010	23.027	0.017	36823	831.396	4.157
Average of peak concentrations:							4.50
Tetrachloro-m-xylene		3.863	3.864	0.001	213984	74.824	0.374
Decachlorobiphenyl	(M)	24.640	24.646	0.006	115485	56.313	0.282

COMMENTS:

M - Compound response manually integrated.

306005

LAB SAMPLE NO.

WP294

GC ORGANICS METHOD BLANK SUMMARY

Matrix: WATER

Level: LOW

Instrument ID: PESTGC6

Date Analyzed: 10/23/98

Time Analyzed: 2227

Lab File ID: NR004328

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

	CLIENT ID.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	DSSR-1	90838	nr004375.d	10/27/98
02	DSRW-1	90839	nr004398.d	10/27/98
03				
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306006

COMMENTS:

Client ID: **WP294**
Site:

Lab Sample ID: **WP294**
Lab Job No: I280

Date Sampled: _____
Date Received: _____
Date Extracted: 10/21/98
Date Analyzed: 10/23/98
GC Column: DB-608
Instrument ID: PESTGC6.i

Matrix: WATER
Sample Volume: 1000 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Lab File ID: nr004328.d

ORGANOCHLORINE PCBs - GC/ECD
METHOD 608

Parameter	Analytical Results Units: ug/l	Method Detection Limit Units: ug/l
Aroclor-1016	ND	0.30
Aroclor-1221	ND	0.30
Aroclor-1232	ND	0.40
Aroclor-1242	ND	0.20
Aroclor-1248	ND	0.30
Aroclor-1254	ND	0.40
Aroclor-1260	ND	0.20
Aroclor-1262	ND	0.20
Aroclor-1268	ND	0.20

306007

Pesticide/PCB Retention Time Shift Summary

(for databatch - /chem1/PESTGC6.i/608/rear/Oct98/10-22-98/22oct98b.b,
as of 11/04/1998 13:43)

Instrument ID: PESTGC6.i Column ID: DB-608 Primary Column

Dates of Analysis: 10/23/98 to 10/23/98

Retention Time Shift Marker - Decachlorobiphenyl
QC Limit for RT Shift is 0.3%

Mean Surrogate RT From Initial Calibration: DCB = 25.691

Lab Sample ID	Data File	Injection Time	RT	%D
WP294	nr004328.d	23-OCT-1998 22:27	25.673	0.07%

D = Surrogate diluted out.

306008

Pesticide/PCB Retention Time Shift Summary

(for databatch - /chem1/PESTGC6.i/608/rear/Oct98/10-26-98/26oct98a.b,
as of 11/04/1998 13:43)

Instrument ID: PESTGC6.i Column ID: DB-608 Primary Column

Dates of Analysis: 10/27/98 to 10/27/98

Retention Time Shift Marker - Decachlorobiphenyl
QC Limit for RT Shift is 0.3%

Mean Surrogate RT From Initial Calibration: DCB = 25.691

Lab Sample ID	Data File	Injection Time	RT	%D
90838	nr004375.d	27-OCT-1998 02:35	25.670	0.08%

D = Surrogate diluted out.

306009

Pesticide/PCB Retention Time Shift Summary

(for databatch - /chem1/PESTGC6.i/608/rear/Oct98/10-27-98/27oct98a.b,
as of 11/04/1998 13:43)

Instrument ID: PESTGC6.i Column ID: DB-608 Primary Column

Dates of Analysis: 10/27/98 to 10/27/98

Retention Time Shift Marker - Decachlorobiphenyl
QC Limit for RT Shift is 0.3%

Mean Surrogate RT From Initial Calibration: DCB = 25.632

Lab Sample ID	Data File	Injection Time	RT	%D
90839	nr004398.d	27-OCT-1998 22:04	25.650	0.07%

D = Surrogate diluted out.

306010

GC ORGANICS ANALYTICAL SEQUENCE SUMMARY

Instrument ID: PESTGC6.i Column ID: DB-608 Primary Column

	Lab Sample ID	Client Sample ID	Lab File ID	Sample Type	Inj. Date	Inj. Time
1	PEST MIX-10a		nr004115.d	CALIB_1	10/15/98	2210
2	PEST MIX-50a		nr004116.d	CALIB_2	10/15/98	2243
3	PEST MIX-100a		nr004117.d	CALIB_3	10/15/98	2315
4	PEST MIX-250a		nr004118.d	CALIB_4	10/15/98	2348
5	PEST MIX-500a		nr004119.d	CALIB_5	10/16/98	0020
6	1016/1260-200a		nr004120.d	CALIB_1	10/16/98	0053
7	1016/1260-500a		nr004121.d	CALIB_2	10/16/98	0624
8	1016/1260-1000a		nr004122.d	CALIB_3	10/16/98	0656
9	1016/1260-1500a		nr004123.d	CALIB_4	10/16/98	0729
10	1016/1260-2500a		nr004124.d	CALIB_5	10/16/98	0923
11	PEST MIX-100b		nr004323.d	CCALIB_3	10/23/98	1945
12	1016/1260-1000b		nr004324.d	CCALIB_3	10/23/98	2018
13	WP294		nr004328.d	BLANK	10/23/98	2227
14	PEST MIX-100a		nr004351.d	CCALIB_3	10/26/98	1002
15	1016/1260-1000a		nr004352.d	CCALIB_3	10/26/98	1035
16	90838	DSSR-1	nr004375.d	SAMPLE	10/27/98	0235
17	PEST MIX-10a		nr004383.d	CALIB_1	10/27/98	1358
18	PEST MIX-50a		nr004384.d	CALIB_2	10/27/98	1430
19	PEST MIX-100a		nr004385.d	CALIB_3	10/27/98	1503
20	PEST MIX-250a		nr004386.d	CALIB_4	10/27/98	1535
21	PEST MIX-500a		nr004387.d	CALIB_5	10/27/98	1607
22	1016/1260-1000a		nr004388.d	CCALIB_3	10/27/98	1640
23	90839	DSRW-1	nr004398.d	SAMPLE	10/27/98	2204

306011

GC ORGANINCS INITIAL CALIBRATION SUMMARY

Instrument ID: PESTGC6.i Column ID: DB-608 Primary Column

Calibration Files:

/chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/nr004115.d
/chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/nr004116.d
/chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/nr004117.d
/chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/nr004118.d
/chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/nr004119.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Coefficients a0	a1	a2	%RSD or R^2	
Aldrin	3456.80	3374.34	3366.17	3715.06	3909.74		3564.42		6.71199	
alpha-BHC	3196.20	4099.66	4129.33	4558.76	4787.24	2.63706	0.00023	-9.29e-12	0.99984	*
beta-BHC	2205.20	2152.70	2003.99	2023.91	2081.19		2093.40		4.06657	
delta-BHC	2948.10	3654.72	3672.01	4040.97	4242.79	2.42673	0.00026	-1.18e-11	0.99985	*
gamma-BHC (Lindane)	3343.30	3971.22	3909.10	4219.70	4379.81		3964.63		9.98319	
4,4'-DDD	1924.70	2197.38	2232.68	2523.91	2682.06	2.89220	0.00042	-3.727e-11	0.99974	*
4,4'-DDE	2506.60	2815.60	2860.01	3251.11	3493.14	2.85164	0.00033	-2.54e-11	0.99974	*
4,4'-DDT	2319.90	2367.40	2332.29	2642.34	2883.89		2509.16		9.87050	
Dieldrin	2745.80	2874.04	2873.64	3237.47	3474.14		3041.02		9.99089	
Endosulfan I	2846.80	2971.18	2901.18	3170.79	3346.43		3047.27		6.80632	
Endosulfan II	2665.10	2682.08	2624.67	2898.99	3100.16		2794.20		7.21494	
Endosulfan sulfate	2630.60	2397.86	2330.90	2591.10	2784.22		2546.94		7.19024	
Endrin	2511.70	2690.12	2671.24	3011.64	3217.29	2.22165	0.00035	-2.8e-11	0.99977	*
Endrin aldehyde	2420.10	2281.04	2137.22	2284.75	2397.99		2304.22		4.90162	
Endrin ketone	2714.60	2962.42	2895.01	3130.18	3305.11		3001.46		7.52250	
Heptachlor	3654.80	3391.72	3266.84	3515.47	3696.64		3505.09		5.12007	
Heptachlor epoxide	3034.20	3170.02	3082.25	3360.03	3539.73		3237.25		6.48596	
Methoxychlor	1317.10	1304.96	1230.84	1305.12	1401.75		1311.95		4.63085	
Tetrachloro-m-xylene	3417.40	3425.74	3197.42	3267.71	3470.99		3355.85		3.48780	
Decachlorobiphenyl	3422.52	3297.36	3024.08	3007.59	3180.68		3186.45		5.57912	

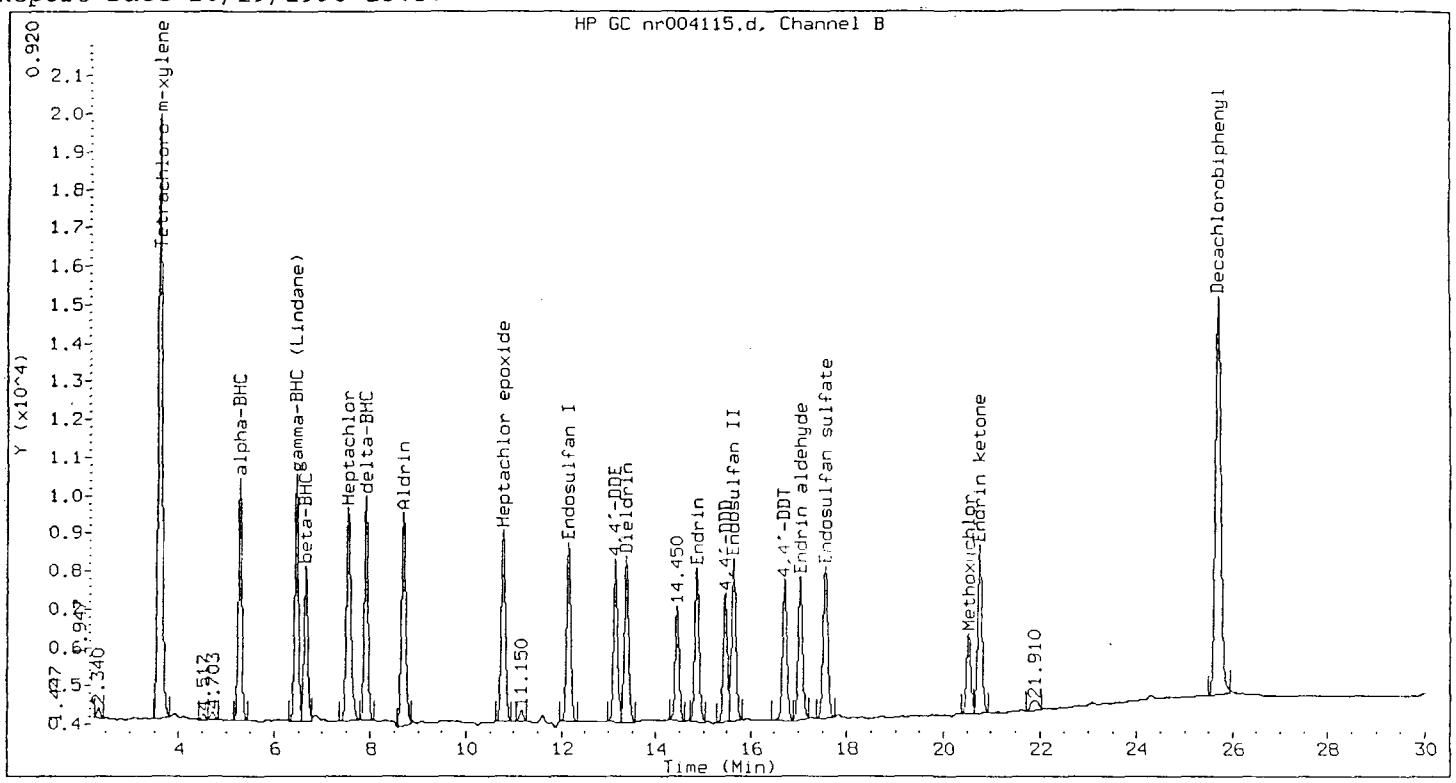
Comments:

* = %RSD exceeded maximum upper limit. Non-linear curve used for quantitation.

+ = Multi-component peak not used in calibration of compound.

306012

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/nr004115.d Page 1
Report Date 10/19/1998 13:57



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/Nr608.m
Sample Info : PEST MIX-10a
Lab ID : PEST MIX-10a
Inst ID : PESTGC6.i
Inj Date : 15-OCT-1998 22:10
Dil Factor : 1
Operator : DMW
Sample Matrix : WATER
Cpnd Sublist: SCpestRANGE
Sample Type: CALIB_1

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Aldrin		8.687	8.686	0.001	34568	9.683	9.683
alpha-BHC		5.280	5.275	0.005	31962	9.974	9.974
beta-BHC	(M)	6.657	6.653	0.003	22052	10.587	10.587
delta-BHC		7.907	7.903	0.004	29481	10.112	10.112
gamma-BHC (Lindane)	(M)	6.457	6.454	0.003	33433	8.441	8.441
4,4'-DDD		15.463	15.463	0.001	19247	11.053	11.053
4,4'-DDE	(M)	13.143	13.143	0.001	25066	11.075	11.075
4,4'-DDT	(M)	16.710	16.714	0.004	23199	9.246	9.246
Dieldrin	(M)	13.380	13.378	0.002	27458	9.029	9.029

306013

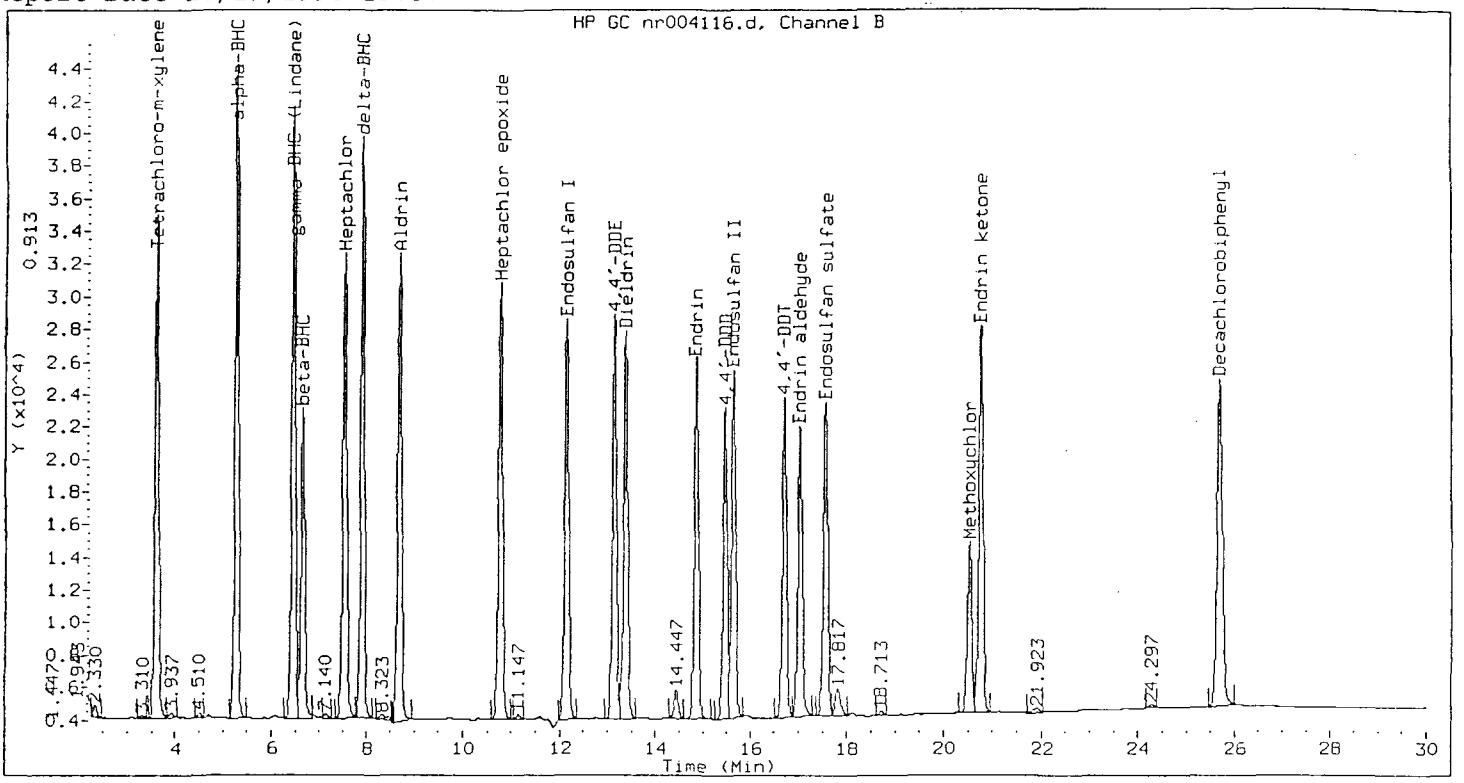
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I		12.147	12.147	0.000	28468	9.247	9.247
Endosulfan II		15.640	15.640	0.000	26651	9.555	9.555
Endosulfan sulfate		17.560	17.559	0.001	26306	10.328	10.328
Endrin	(M)	14.867	14.866	0.001	25117	8.909	8.909
Endrin aldehyde	(M)	17.037	17.035	0.001	24201	10.503	10.503
Endrin ketone		20.763	20.764	0.001	27146	9.044	9.044
Heptachlor		7.533	7.531	0.003	36548	10.433	10.433
Heptachlor epoxide		10.777	10.774	0.003	30342	9.373	9.373
Methoxychlor		20.533	20.531	0.002	13171	10.039	10.039
Tetrachloro-m-xylene		3.607	3.601	0.006	85435	25.459	25.459
Decachlorobiphenyl		25.693	25.691	0.002	85563	26.852	26.852

COMMENTS:

M - Compound response manually integrated.

306014

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/nr004116.d Page 1
Report Date 10/19/1998 13:57



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/Nr608.m
Sample Info : PEST MIX-50a
Lab ID : PEST MIX-50a
Inj Date : 15-OCT-1998 22:43
Operator : DMW
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_2

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Aldrin	(M)	8.687	8.686	0.001	168717	47.334	47.334
alpha-BHC		5.273	5.275	0.001	204983	49.360	49.360
beta-BHC	(M)	6.653	6.653	0.000	107635	51.443	51.443
delta-BHC		7.903	7.903	0.001	182736	49.503	49.503
gamma-BHC (Lindane)	(M)	6.453	6.454	0.001	198561	50.085	50.085
4,4'-DDD		15.460	15.463	0.003	109869	48.733	48.733
4,4'-DDE		13.143	13.143	0.001	140780	48.621	48.621
4,4'-DDT		16.713	16.714	0.000	118370	47.175	47.175
Dieldrin		13.377	13.378	0.001	143702	47.255	47.255

306015

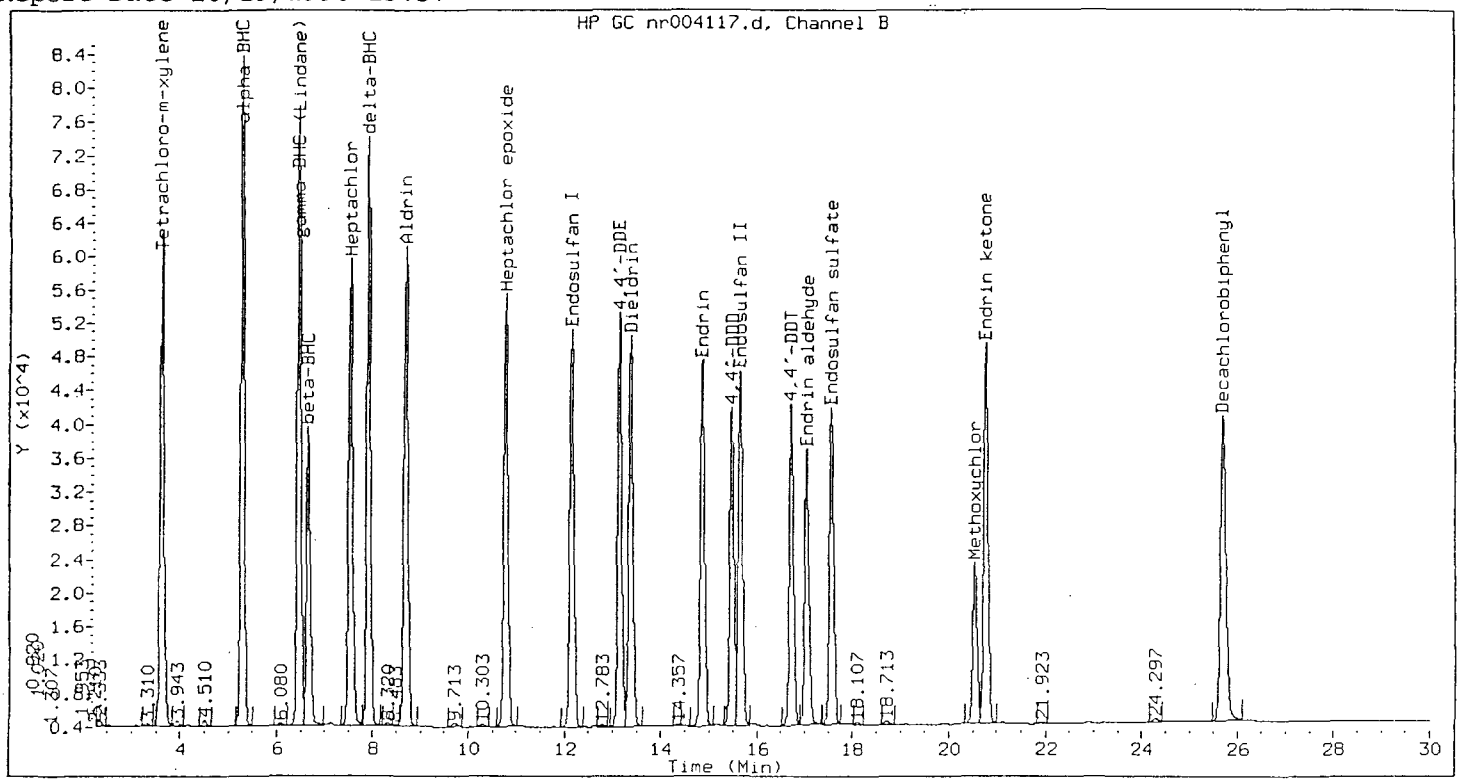
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I	(M)	12.147	12.147	0.000	148559	48.751	48.751
Endosulfan II		15.640	15.640	0.000	134104	48.081	48.081
Endosulfan sulfate		17.557	17.559	0.003	119893	47.073	47.073
Endrin	(M)	14.863	14.866	0.003	134506	47.691	47.691
Endrin aldehyde		17.033	17.035	0.002	114052	49.497	49.497
Endrin ketone		20.763	20.764	0.001	148121	49.350	49.350
Heptachlor		7.530	7.531	0.001	169586	48.409	48.409
Heptachlor epoxide		10.773	10.774	0.001	158501	48.962	48.962
Methoxychlor		20.530	20.531	0.001	65248	49.733	49.733
Tetrachloro-m-xylene		3.600	3.601	0.001	171287	51.041	51.041
Decachlorobiphenyl		25.690	25.691	0.001	164868	51.740	51.740

COMMENTS:

M - Compound response manually integrated.

306016

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/nr004117.d Page 1
Report Date 10/19/1998 13:57



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/Nr608.m
Sample Info : PEST MIX-100a
Lab ID : PEST MIX-100a
Inj Date : 15-OCT-1998 23:15
Operator : DMW
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aldrin		8.687	8.686	0.001	336617	94.438	94.438
alpha-BHC		5.277	5.275	0.002	412933	95.961	95.961
beta-BHC	(M)	6.653	6.653	0.000	200399	95.610	95.610
delta-BHC	(M)	7.903	7.903	0.001	367201	96.082	96.082
gamma-BHC (Lindane)	(M)	6.457	6.454	0.003	390910	98.545	98.545
4,4'-DDD	(M)	15.463	15.463	0.001	223268	94.864	94.864
4,4'-DDE		13.143	13.143	0.001	286001	94.779	94.779
4,4'-DDT	(M)	16.713	16.714	0.000	233229	92.951	92.951
Dieldrin		13.377	13.378	0.001	287364	94.496	94.496

306017

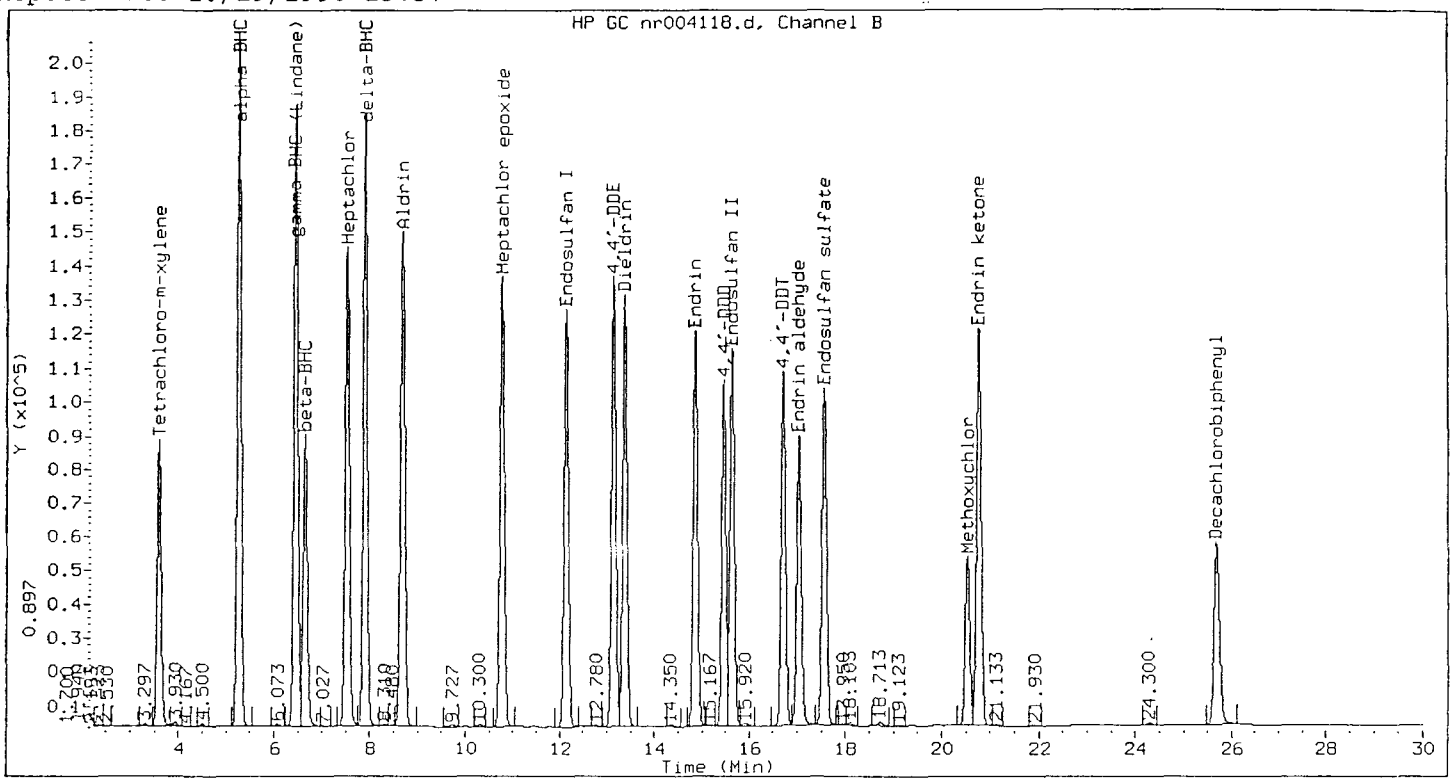
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I		12.147	12.147	0.000	290118	95.206	95.206
Endosulfan II	(M)	15.640	15.640	0.000	262467	93.933	93.933
Endosulfan sulfate	(M)	17.557	17.559	0.003	233090	91.518	91.518
Endrin	(M)	14.867	14.866	0.001	267124	94.658	94.658
Endrin aldehyde	(M)	17.037	17.035	0.001	213722	92.752	92.752
Endrin ketone	(M)	20.763	20.764	0.001	289501	96.453	96.453
Heptachlor	(M)	7.533	7.531	0.003	326684	93.203	93.203
Heptachlor epoxide		10.773	10.774	0.001	308225	95.212	95.212
Methoxychlor	(M)	20.530	20.531	0.001	123084	93.817	93.817
Tetrachloro-m-xylene		3.603	3.601	0.003	319742	95.279	95.279
Decachlorobiphenyl	(M)	25.690	25.691	0.001	302408	94.904	94.904

COMMENTS:

M - Compound response manually integrated.

306018

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/nr004118.d Page 1
Report Date 10/19/1998 13:57



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/Nr608.m
Sample Info : PEST MIX-250a
Lab ID : PEST MIX-250a
Inj Date : 15-OCT-1998 23:48
Operator : DMW
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_4

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Aldrin		8.680	8.686	0.006	928764	260.565	260.565
alpha-BHC		5.267	5.275	0.008	1139691	252.514	252.514
beta-BHC	(M)	6.647	6.653	0.007	505977	241.656	241.656
delta-BHC		7.897	7.903	0.006	1010242	252.424	252.424
gamma-BHC (Lindane)	(M)	6.447	6.454	0.007	1054926	266.047	266.047
4,4'-DDD	(M)	15.460	15.463	0.003	630978	253.224	253.224
4,4'-DDE	(M)	13.140	13.143	0.003	812778	253.223	253.223
4,4'-DDT	(M)	16.713	16.714	0.000	660586	263.269	263.269
Dieldrin	(M)	13.373	13.378	0.005	809368	266.150	266.150

306019

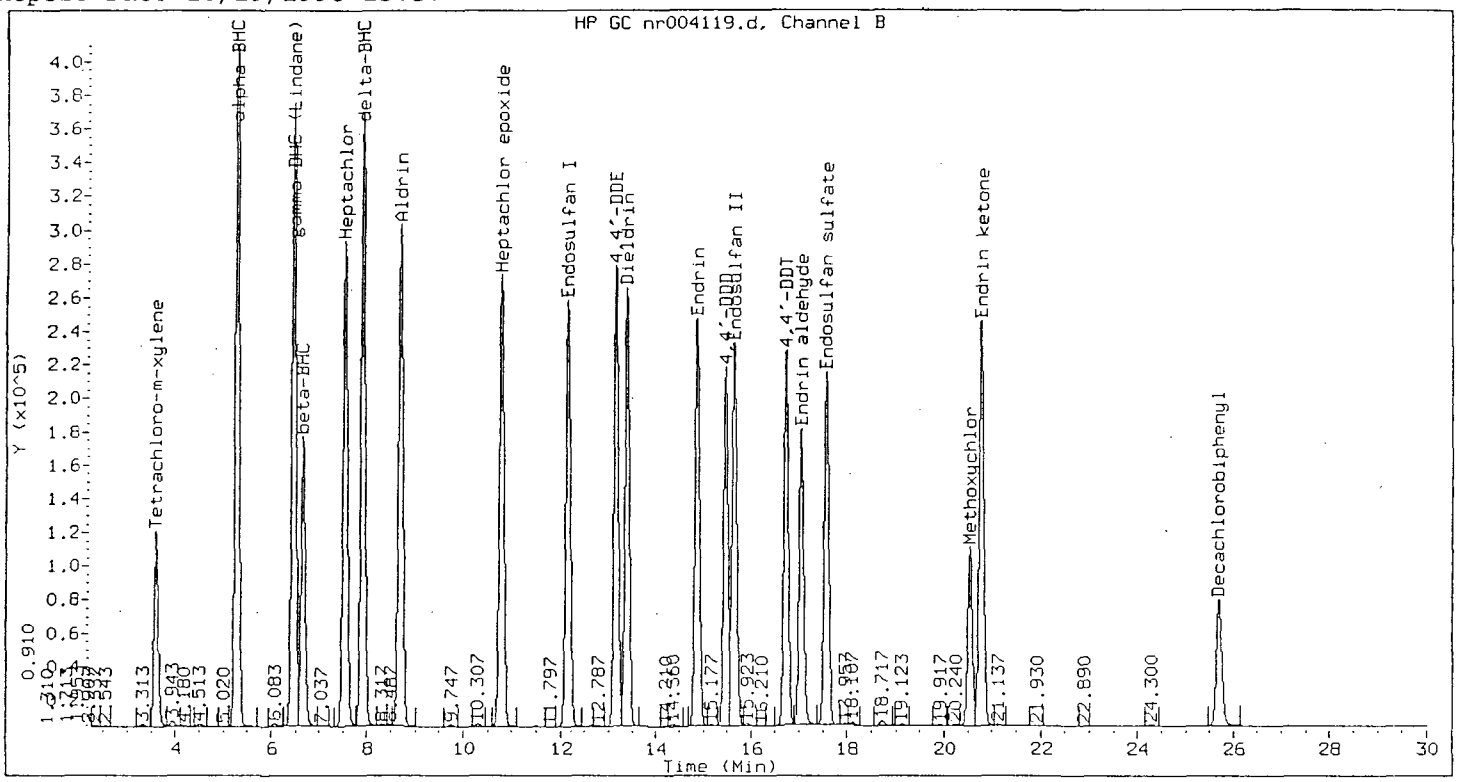
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I		12.143	12.147	0.003	792697	260.133	260.133
Endosulfan II	(M)	15.637	15.640	0.003	724747	259.376	259.376
Endosulfan sulfate	(M)	17.560	17.559	0.001	647776	254.335	254.335
Endrin	(M)	14.863	14.866	0.003	752911	266.952	266.952
Endrin aldehyde	(M)	17.033	17.035	0.002	571188	247.888	247.888
Endrin ketone		20.763	20.764	0.001	782544	260.721	260.721
Heptachlor		7.523	7.531	0.007	878867	250.740	250.740
Heptachlor epoxide		10.770	10.774	0.004	840008	259.482	259.482
Methoxychlor		20.530	20.531	0.001	326281	248.698	248.698
Tetrachloro-m-xylene		3.590	3.601	0.011	490156	146.060	146.060
Decachlorobiphenyl		25.690	25.691	0.001	451139	141.581	141.581

COMMENTS:

M - Compound response manually integrated.

306020

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/nr004119.d Page 1
Report Date 10/19/1998 13:57



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/Nr608.m
Sample Info : PEST MIX-500a
Lab ID : PEST MIX-500a
Inj Date : 16-OCT-1998 00:20
Operator : DMW
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_5

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aldrin		8.690	8.686	0.004	1954868	548.439	548.439
alpha-BHC		5.277	5.275	0.002	2393620	499.555	499.555
beta-BHC	(M)	6.657	6.653	0.003	1040595	497.084	497.084
delta-BHC		7.903	7.903	0.001	2121394	499.572	499.572
gamma-BHC (Lindane)	(M)	6.457	6.454	0.003	2189907	552.361	552.361
4,4'-DDD	(M)	15.467	15.463	0.004	1341032	499.438	499.438
4,4'-DDE	(M)	13.143	13.143	0.001	1746570	499.451	499.451
4,4'-DDT	(M)	16.720	16.714	0.006	1441943	574.671	574.671
Dieldrin	(M)	13.383	13.378	0.005	1737069	571.213	571.213

306021

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I		12.150	12.147	0.003	1673213	549.085	549.085
Endosulfan II		15.643	15.640	0.003	1550080	554.749	554.749
Endosulfan sulfate	(M)	17.563	17.559	0.004	1392108	546.581	546.581
Endrin	(M)	14.870	14.866	0.004	1608643	570.360	570.360
Endrin aldehyde	(M)	17.037	17.035	0.001	1198993	520.347	520.347
Endrin ketone		20.770	20.764	0.006	1652555	550.583	550.583
Heptachlor		7.533	7.531	0.003	1848320	527.324	527.324
Heptachlor epoxide		10.777	10.774	0.003	1769865	546.719	546.719
Methoxychlor		20.533	20.531	0.002	700874	534.221	534.221
Tetrachloro-m-xylene		3.603	3.601	0.003	694197	206.862	206.862
Decachlorobiphenyl		25.693	25.691	0.002	636137	199.638	199.638

COMMENTS:

M - Compound response manually integrated.

306022

GC ORGANINCS INITIAL CALIBRATION SUMMARY

Instrument ID: PESTGC6.i Column ID: DB-608 Primary Column

Calibration Files:

/chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/nr004120.d
/chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/nr004121.d
/chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/nr004122.d
/chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/nr004123.d
/chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/nr004124.d

Compound		Level 1	Level 2	Level 3	Level 4	Level 5	Coefficients a0	a1	a2	%RSD or R^2	
Aroclor-1016	1	79.94	67.97	65.80	57.83	53.01	-7.29150	0.01298	4.5302e-08	0.99910	*
	2	188.01	146.72	135.32	123.12	113.21	-23.55315	0.00648	8.731e-09	0.99938	
	3	79.57	65.67	63.08	58.43	56.09	-21.94926	0.01525	1.9892e-08	0.99940	
	4	301.39	252.19	245.22	225.95	217.99	-20.00214	0.00395	1.2559e-09	0.99934	
	5	121.78	99.14	94.62	87.36	85.75	-29.74619	0.01055	6.063e-09	0.99900	
	6	124.63	106.31	105.96	111.62	112.08	-8.56801	0.00947	-1.908e-09	0.99951	
	7	132.35	104.98	99.73	90.89	88.09	-30.82040	0.00981	7.8934e-09	0.99882	
	8	88.56	75.25	74.68	72.76	72.10	-16.34083	0.01349	2.7003e-09	0.99976	
Aroclor-1260	1	251.87	187.81	191.03	165.95	156.18	-17.85097	0.00481	4.2603e-09	0.99797	*
	2	--------	--------	--------	--------	--------					+ MM
	3	141.34	117.86	115.53	108.02	101.40	-11.52071	0.00802	7.5057e-09	0.99972	
	4	160.68	111.25	119.69	114.03	110.21	-15.82944	0.00826	3.197e-09	0.99871	
	5	374.52	284.37	290.48	272.09	263.16	-19.24114	0.00339	6.8225e-10	0.99921	
	6	99.57	80.16	79.09	74.62	71.94	-19.24018	0.01232	9.5476e-09	0.99953	
	7	178.51	145.76	149.79	138.45	135.33	-14.82366	0.00664	2.3915e-09	0.99922	
	8	81.61	65.29	65.77	64.41	63.70	-18.09960	0.01534	3.0427e-09	0.99961	

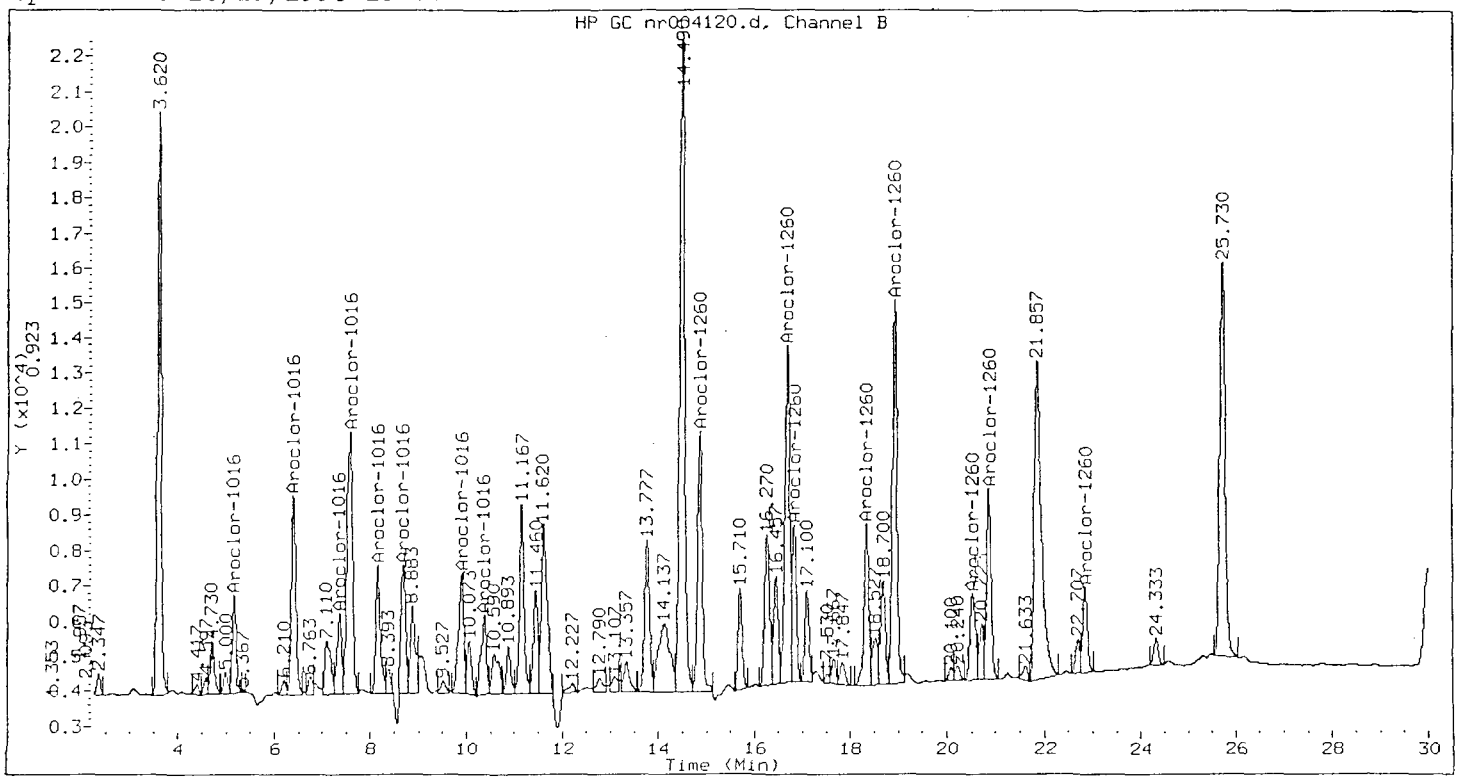
Comments:

* = %RSD exceeded maximum upper limit. Non-linear curve used for quantitation.

+ = Multi-component peak not used in calibration of compound.

306023

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/nr004120.d Page 1
Report Date 10/19/1998 13:57



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/Nr608.m
Sample Info : 1016/1260-200a
Lab ID : 1016/1260-200a
Inj Date : 16-OCT-1998 00:53
Operator : DMW
Cpnd Sublist: AR16600

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_1

Compounds			RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Aroclor-1016		(M)	5.180	5.178	0.002	15988	211.745	211.745
	(2)		6.413	6.411	0.003	37603	232.372	232.372
	(3)		7.380	7.377	0.003	15914	225.856	225.856
	(4)		7.600	7.597	0.003	60278	222.958	222.958
	(5)		8.163	8.164	0.001	24357	230.856	230.856
	(6)		8.693	8.684	0.009	24926	226.330	226.330
	(7)		9.913	9.911	0.003	26470	234.327	234.327
	(8)		10.383	10.382	0.001	17712	223.470	223.470
Average of peak concentrations:								220.00
Aroclor-1260		(M)	14.873	14.873	0.000	50373	235.339	235.339
	(2)		16.687	16.682	0.005	64531	275.961	275.961
	(3)		16.830	16.827	0.003	28268	221.136	221.136
	(4)		18.350	18.347	0.003	32135	252.797	252.797
	(5)		18.930	18.929	0.001	74905	238.360	238.360
	(6)		20.533	20.534	0.001	19914	229.886	229.886

306024

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)	20.873	20.873	0.000	35703	225.361	225.361
(8)	22.857	22.852	0.005	16322	233.130	233.130

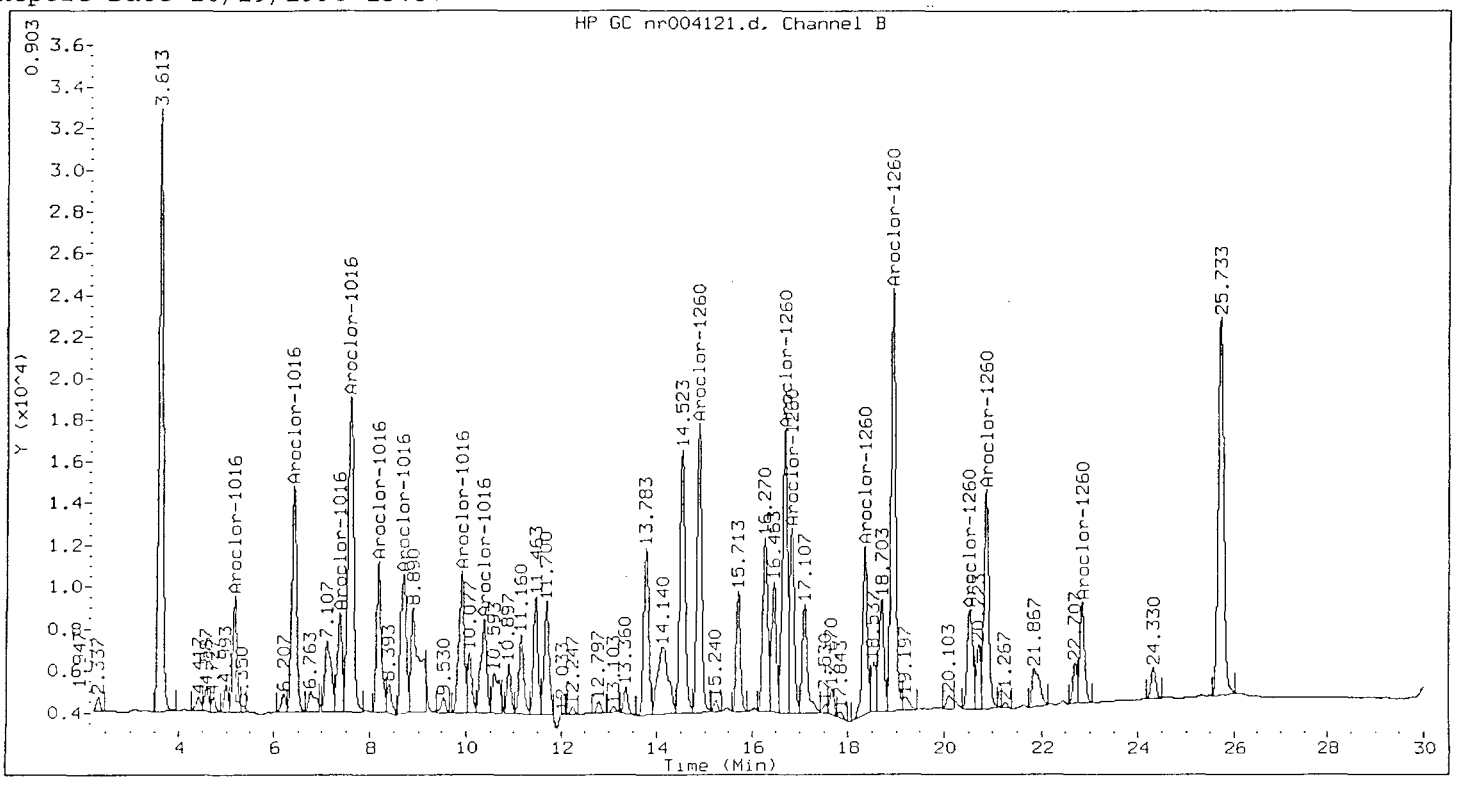
Average of peak concentrations: 240.00

COMMENTS:

M - Compound response manually integrated.

306025

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/nr004121.d Page 1
Report Date 10/19/1998 13:57



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/Nr608.m
Sample Info : 1016/1260-500a
Lab ID : 1016/1260-500a
Inj Date : 16-OCT-1998 06:24
Operator : DMW
Cpnd Sublist: AR16600

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_2

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Aroclor-1016	(M)	5.177	5.178	0.001	33986	486.029	486.029
(2)		6.410	6.411	0.001	73362	498.651	498.651
(3)		7.380	7.377	0.003	32834	500.378	500.378
(4)		7.597	7.597	0.001	126096	498.671	498.671
(5)		8.167	8.164	0.003	49571	508.205	508.205
(6)		8.693	8.684	0.009	53154	489.483	489.483
(7)		9.913	9.911	0.003	52488	505.726	505.726
(8)		10.387	10.382	0.005	37623	495.076	495.076
Average of peak concentrations:							500.00
Aroclor-1260	(M)	14.880	14.873	0.007	93906	472.590	472.590
(2)		16.690	16.682	0.008	98872	454.715	454.715
(3)		16.833	16.827	0.006	58928	486.175	486.175
(4)		18.353	18.347	0.006	55626	452.966	452.966
(5)		18.937	18.929	0.008	142184	476.262	476.262
(6)		20.540	20.534	0.006	40080	489.881	489.881

306026

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)	20.880	20.873	0.007	72880	481.942	481.942
(8)	22.857	22.852	0.005	32645	485.996	485.996

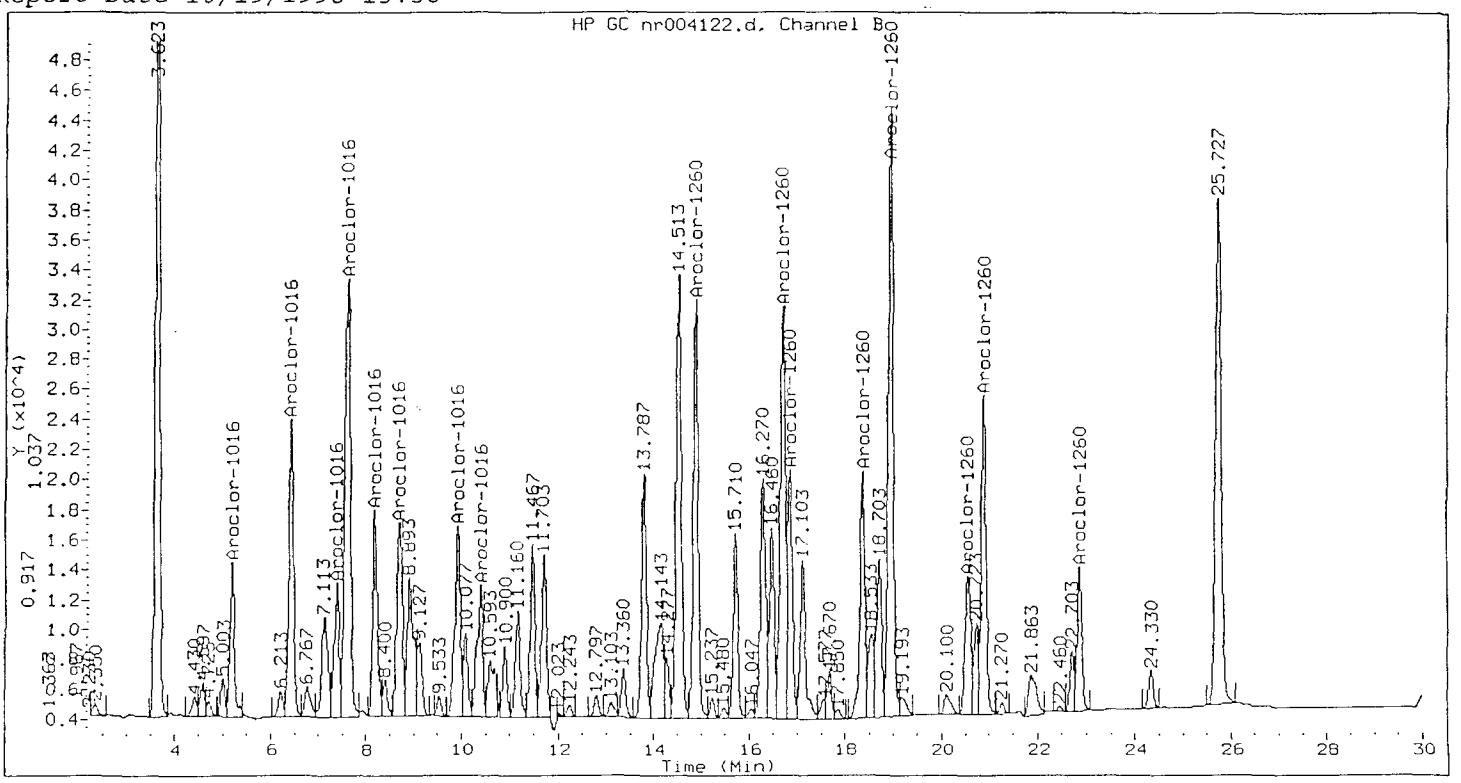
Average of peak concentrations: 480.00

COMMENTS:

M - Compound response manually integrated.

306027

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/nr004122.d Page 1
Report Date 10/19/1998 13:58



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/Nr608.m
Sample Info : 1016/1260-1000a
Lab ID : 1016/1260-1000a
Inj Date : 16-OCT-1998 06:56
Operator : DMW
Cpnd Sublist: AR16600

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Aroclor-1016		5.187	5.178	0.009	65800	1042.655	1042.655
(2)		6.417	6.411	0.006	135323	1012.908	1012.908
(3)		7.383	7.377	0.007	63081	1019.506	1019.506
(4)		7.607	7.597	0.009	245221	1025.359	1025.359
(5)		8.173	8.164	0.009	94620	1022.926	1022.926
(6)		8.697	8.684	0.013	105958	973.579	973.579
(7)		9.920	9.911	0.009	99734	1025.882	1025.882
(8)		10.390	10.382	0.008	74682	1006.300	1006.300
Average of peak concentrations:							1000.00
Aroclor-1260	(M)	14.880	14.873	0.007	191033	1058.101	1058.101
(2)		16.687	16.682	0.005	205573	1077.198	1077.198
(3)		16.833	16.827	0.006	115535	1015.195	1015.195
(4)		18.353	18.347	0.006	119690	1018.610	1018.610
(5)		18.937	18.929	0.008	290476	1022.438	1022.438
(6)		20.543	20.534	0.009	79088	1014.841	1014.841

306028

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)	20.880	20.873	0.007	149786	1033.698	1033.698
(8)	22.857	22.852	0.005	65765	1004.054	1004.054

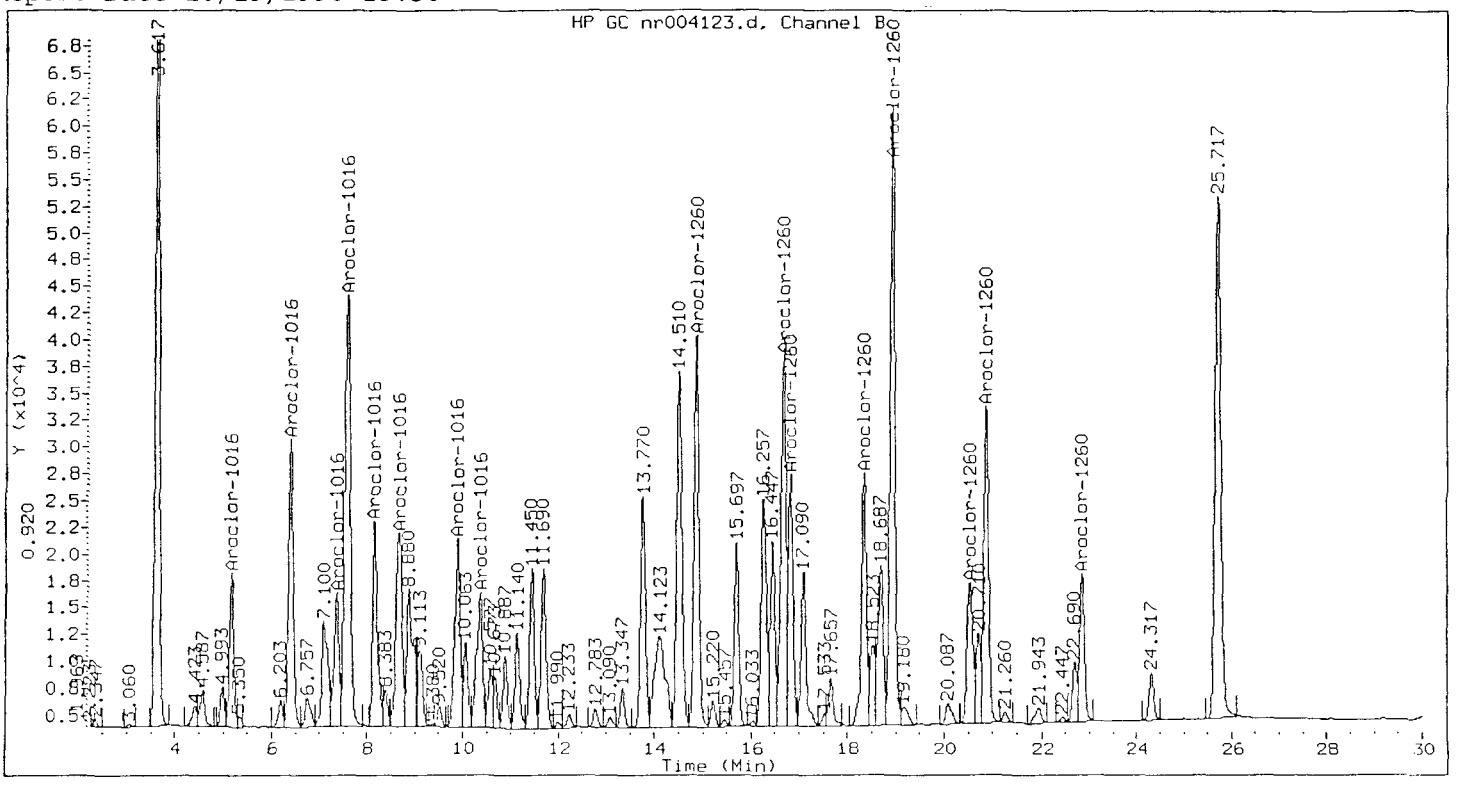
Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

306029

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/nr004123.d Page 1
Report Date 10/19/1998 13:58



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/Nr608.m
Sample Info : 1016/1260-1500a
Lab ID : 1016/1260-1500a
Inj Date : 16-OCT-1998 07:29
Operator : DMW
Cpnd Sublist: AR16600

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_4

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Aroclor-1016	(M)	5.173	5.178	0.005	86742	1459.111	1459.111
(2)		6.407	6.411	0.004	184676	1470.488	1470.488
(3)		7.370	7.377	0.007	87652	1468.010	1468.010
(4)		7.590	7.597	0.007	338927	1464.708	1464.708
(5)		8.157	8.164	0.007	131036	1456.995	1456.995
(6)		8.673	8.684	0.011	167424	1523.684	1523.684
(7)		9.903	9.911	0.007	136330	1453.005	1453.005
(8)		10.377	10.382	0.005	109140	1488.298	1488.298
Average of peak concentrations:							1500.00
Aroclor-1260	(M)	14.867	14.873	0.006	248920	1444.390	1444.390
(2)		16.673	16.682	0.009	256519	1407.956	1407.956
(3)		16.820	16.827	0.007	162035	1485.042	1485.042
(4)		18.340	18.347	0.007	171038	1491.423	1491.423
(5)		18.920	18.929	0.009	408138	1477.150	1477.150
(6)		20.527	20.534	0.007	111932	1479.378	1479.378

306030

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)	20.867	20.873	0.006	207678	1467.703	1467.703
(8)	22.847	22.852	0.005	96619	1492.673	1492.673

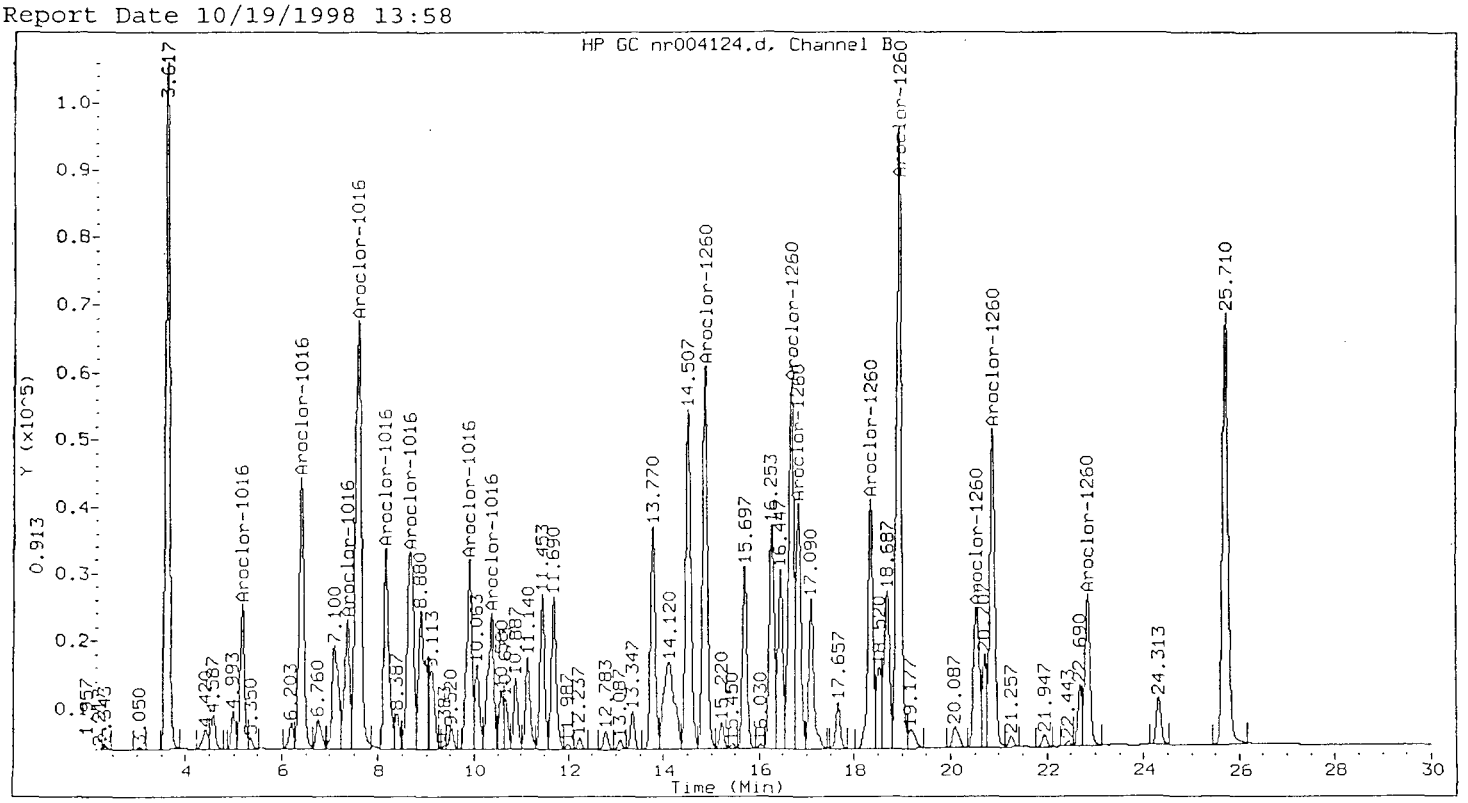
Average of peak concentrations: 1500.00

COMMENTS:

M - Compound response manually integrated.

306031

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/nr004124.d Page 1
Report Date 10/19/1998 13:58



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-15-98/15oct98a.b/Nr608.m
Sample Info : 1016/1260-2500a
Lab ID : 1016/1260-2500a
Inj Date : 16-OCT-1998 09:23
Operator : DMW
Cpnd Sublist: AR16600

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_5

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Aroclor-1016		5.173	5.178	0.005	132517	2507.751	2507.751
(2)		6.407	6.411	0.004	283022	2509.134	2509.134
(3)		7.370	7.377	0.007	140219	2508.199	2508.199
(4)		7.593	7.597	0.004	544966	2508.306	2508.306
(5)		8.160	8.164	0.004	214366	2510.765	2510.765
(6)		8.663	8.684	0.021	280198	2495.492	2495.492
(7)		9.903	9.911	0.007	220219	2511.881	2511.881
(8)		10.373	10.382	0.009	180246	2503.197	2503.197
Average of peak concentrations:							2500.00
Aroclor-1260	(M)	14.867	14.873	0.006	390439	2510.277	2510.277
(2)		16.673	16.682	0.009	407495	2517.726	2517.726
(3)		16.820	16.827	0.007	253510	2503.808	2503.808
(4)		18.340	18.347	0.007	275519	2501.623	2501.623
(5)		18.920	18.929	0.009	657912	2505.031	2505.031
(6)		20.527	20.534	0.007	179845	2505.254	2505.254

306032

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)	20.863	20.873	0.010	338334	2506.120	2506.120
(8)	22.843	22.852	0.009	159244	2502.246	2502.246

Average of peak concentrations: 2500.00

COMMENTS:

M - Compound response manually integrated.

306033

SINGLE COMPONENT COMPOUND CONTINUING CALIBRATION REPORT

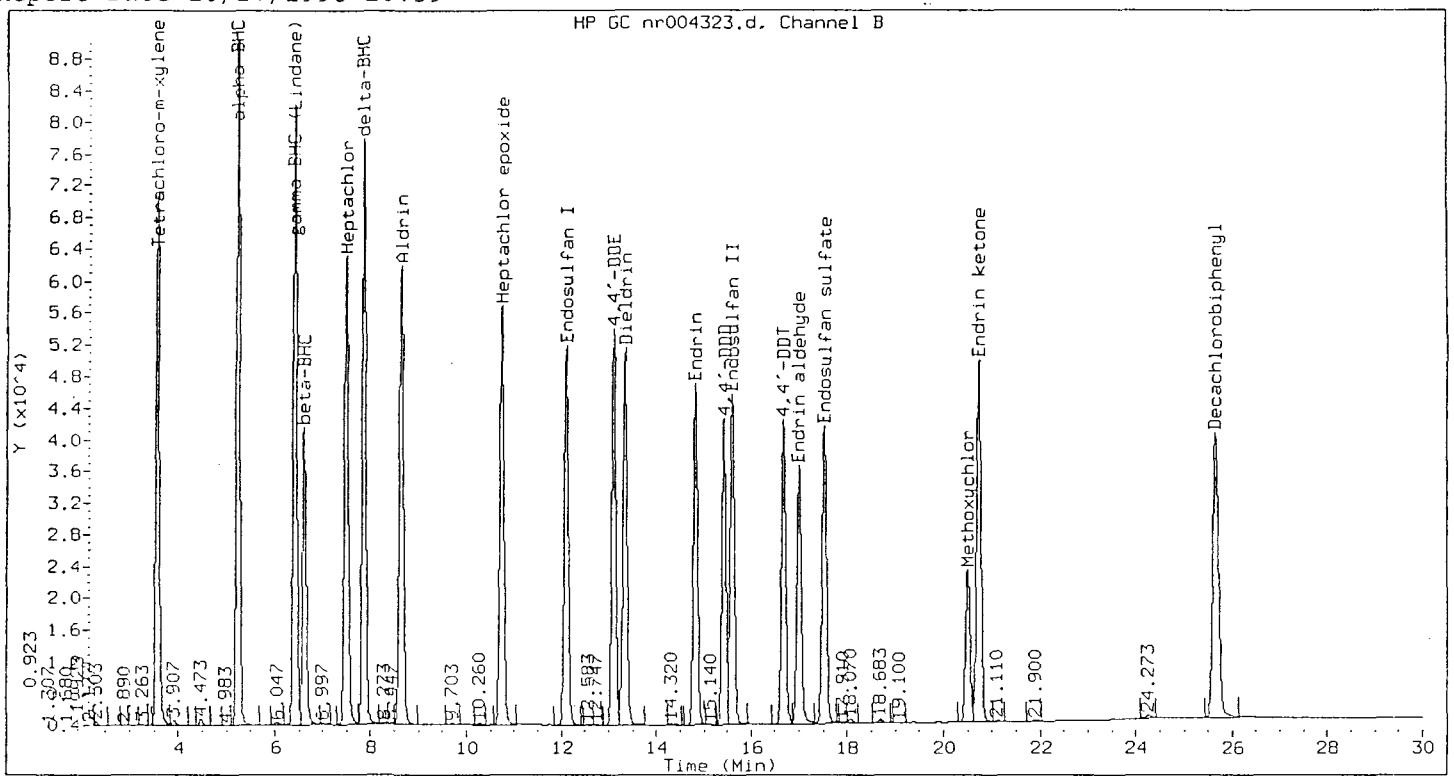
Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-22-98/22oct98b.b/nr004323.d
Method: /chem1/PESTGC6.i/608/rear/Oct98/10-22-98/22oct98b.b/Nr608.m

Sample Information: PEST MIX-100b
Injection Date: 23-OCT-1998 19:45

Compound	Exp Conc	Actual Conc	Percent Diff.
Aldrin	100	95.54	4.46
alpha-BHC	100	98.35	1.65
beta-BHC	100	95.99	4.01
delta-BHC	100	98.35	1.65
gamma-BHC (Lindane)	100	99.77	0.23
4,4'-DDD	100	95.39	4.61
4,4'-DDE	100	94.97	5.03
4,4'-DDT	100	91.87	8.13
Dieldrin	100	95.30	4.70
Endosulfan I	100	97.33	2.67
Endosulfan II	100	94.59	5.41
Endosulfan sulfate	100	92.66	7.34
Endrin	100	91.91	8.09
Endrin aldehyde	100	92.16	7.84
Endrin ketone	100	98.68	1.32
Heptachlor	100	96.57	3.43
Heptachlor epoxide	100	97.42	2.58
Methoxychlor	100	93.87	6.13
Tetrachloro-m-xylene	100	95.79	4.21
Decachlorobiphenyl	100	94.40	5.60

306034

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-22-98/22oct98b.b/nr004323.d Page 1
Report Date 10/27/1998 10:59



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-22-98/22oct98b.b/Nr608.m
Sample Info : PEST MIX-100b
Lab ID : PEST MIX-100b
Inj Date : 23-OCT-1998 19:45
Operator : DMW
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CCALIB_3

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Aldrin	8.650	8.686	0.036	340560	95.544	95.544
alpha-BHC	5.237	5.275	0.038	423714	98.355	98.355
beta-BHC	6.613	6.653	0.040	200947	95.991	95.991
delta-BHC	7.867	7.903	0.036	376242	98.348	98.348
gamma-BHC (Lindane)	6.417	6.454	0.037	395533	99.765	99.765
4,4'-DDD	15.430	15.463	0.033	224563	95.386	95.386
4,4'-DDE	13.107	13.143	0.036	286616	94.972	94.972
4,4'-DDT	16.680	16.714	0.034	230521	91.872	91.872
Dieldrin	13.340	13.378	0.038	289814	95.302	95.302

306035

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I	12.110	12.147	0.037	296601	97.333	97.333
Endosulfan II	15.603	15.640	0.037	264305	94.591	94.591
Endosulfan sulfate	17.527	17.559	0.033	236001	92.661	92.661
Endrin	14.830	14.866	0.036	258509	91.907	91.907
Endrin aldehyde	17.003	17.035	0.032	212366	92.164	92.164
Endrin ketone	20.733	20.764	0.031	296183	98.680	98.680
Heptachlor	7.493	7.531	0.037	338489	96.571	96.571
Heptachlor epoxide	10.737	10.774	0.037	315365	97.418	97.418
Methoxychlor	20.503	20.531	0.028	123147	93.865	93.865
Tetrachloro-m-xylene	3.563	3.601	0.037	321447	95.787	95.787
Decachlorobiphenyl	25.657	25.691	0.035	300806	94.402	94.402

306036

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-22-98/22oct98b.b/nr004324.d
Method: /chem1/PESTGC6.i/608/rear/Oct98/10-22-98/22oct98b.b/Nr608.m

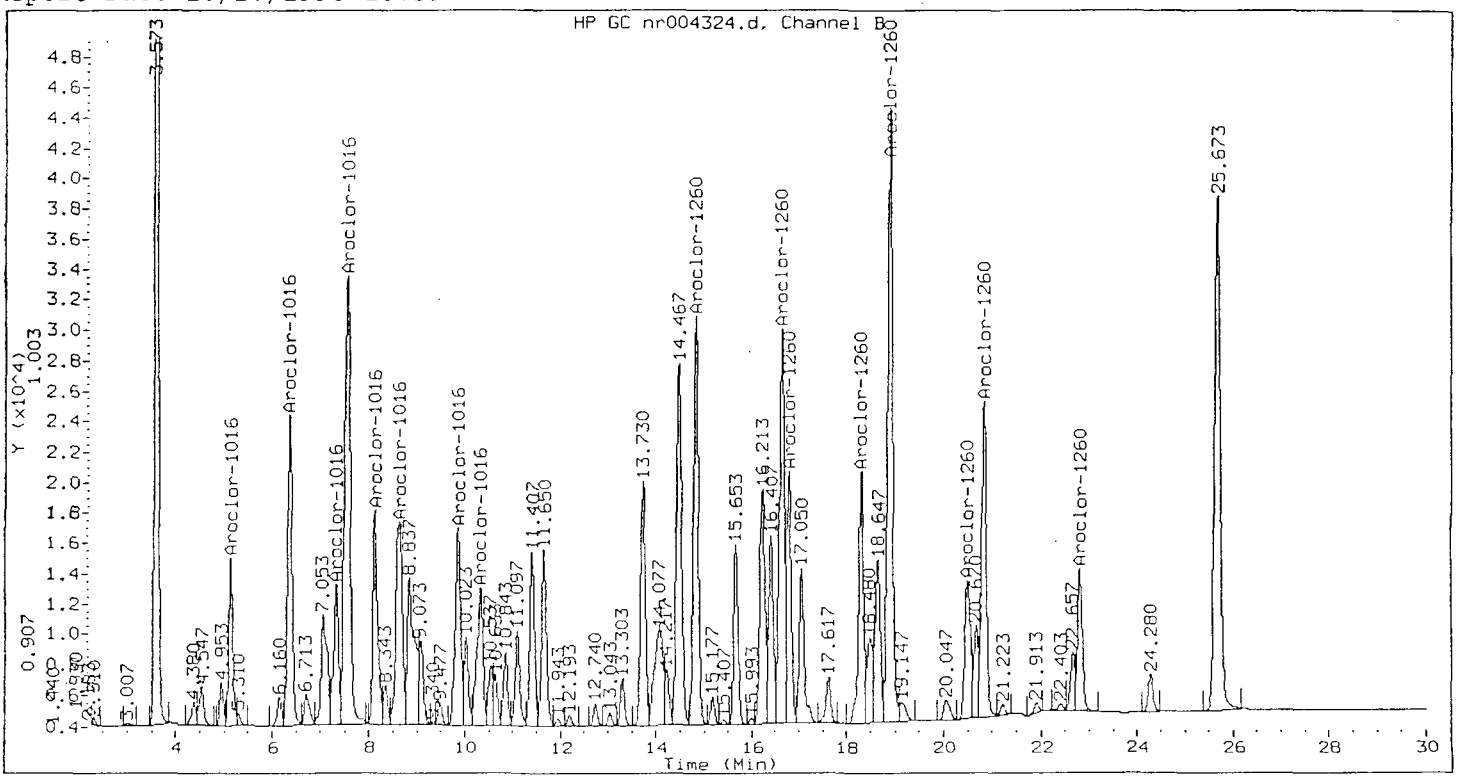
Sample Information: 1016/1260-1000b
Injection Date: 23-OCT-1998 20:18

Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.
Aroclor-1016	1	5.133	1000	944.15	5.59
Aroclor-1016	2	6.363	1000	991.35	0.87
Aroclor-1016	3	7.327	1000	1007.72	0.77
Aroclor-1016	4	7.553	1000	1023.39	2.34
Aroclor-1016	5	8.117	1000	1017.85	1.78
Aroclor-1016	6	8.637	1000	1152.80	15.28<- [illegible] 10/27/98
Aroclor-1016	7	9.863	1000	1010.56	1.06
Aroclor-1016	8	10.330	1000	1056.82	5.68
Aroclor-1260	1	14.823	1000	980.08	1.99
Aroclor-1260	2	16.633	1000	0.00	100.00*
Aroclor-1260	3	16.777	1000	974.20	2.58
Aroclor-1260	4	18.297	1000	1009.97	1.00
Aroclor-1260	5	18.880	1000	997.34	0.27
Aroclor-1260	6	20.487	1000	977.00	2.30
Aroclor-1260	7	20.827	1000	997.71	0.23
Aroclor-1260	8	22.807	1000	998.43	0.16

* Multicomponent peak not used in calibration.

306037

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-22-98/22oct98b.b/nr004324.d Page 1
Report Date 10/27/1998 10:59



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-22-98/22oct98b.b/Nr608.m
Sample Info : 1016/1260-1000b
Lab ID : 1016/1260-1000b
Inst ID : PESTGC6.i
Inj Date : 23-OCT-1998 20:18
Dil Factor : 1
Operator : DMW
Sample Matrix : WATER
Cpnd Sublist: AR16600
Sample Type: CCALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Aroclor-1016		5.133	5.178	0.045	60532	944.150	944.150
(2)		6.363	6.411	0.047	132878	991.345	991.345
(3)		7.327	7.377	0.050	62417	1007.719	1007.719
(4)		7.553	7.597	0.044	244790	1023.389	1023.389
(5)		8.117	8.164	0.047	94186	1017.850	1017.850
(6)		8.637	8.684	0.047	125807	1152.798	1152.798
(7)		9.863	9.911	0.047	98387	1010.564	1010.564
(8)		10.330	10.382	0.052	78315	1056.816	1056.816
Average of peak concentrations:							1000.00
Aroclor-1260	(M)	14.823	14.873	0.050	179020	980.075	980.075
(2)		------	16.682	------	------	------	------ (*)
(3)		16.777	16.827	0.050	111333	974.199	974.199
(4)		18.297	18.347	0.050	118779	1009.966	1009.966
(5)		18.880	18.929	0.049	283837	997.344	997.344
(6)		20.487	20.534	0.047	76346	977.000	977.000

306038

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
(7)	20.827	20.873	0.046	144887	997.710	997.710
(8)	22.807	22.852	0.045	65407	998.434	998.434

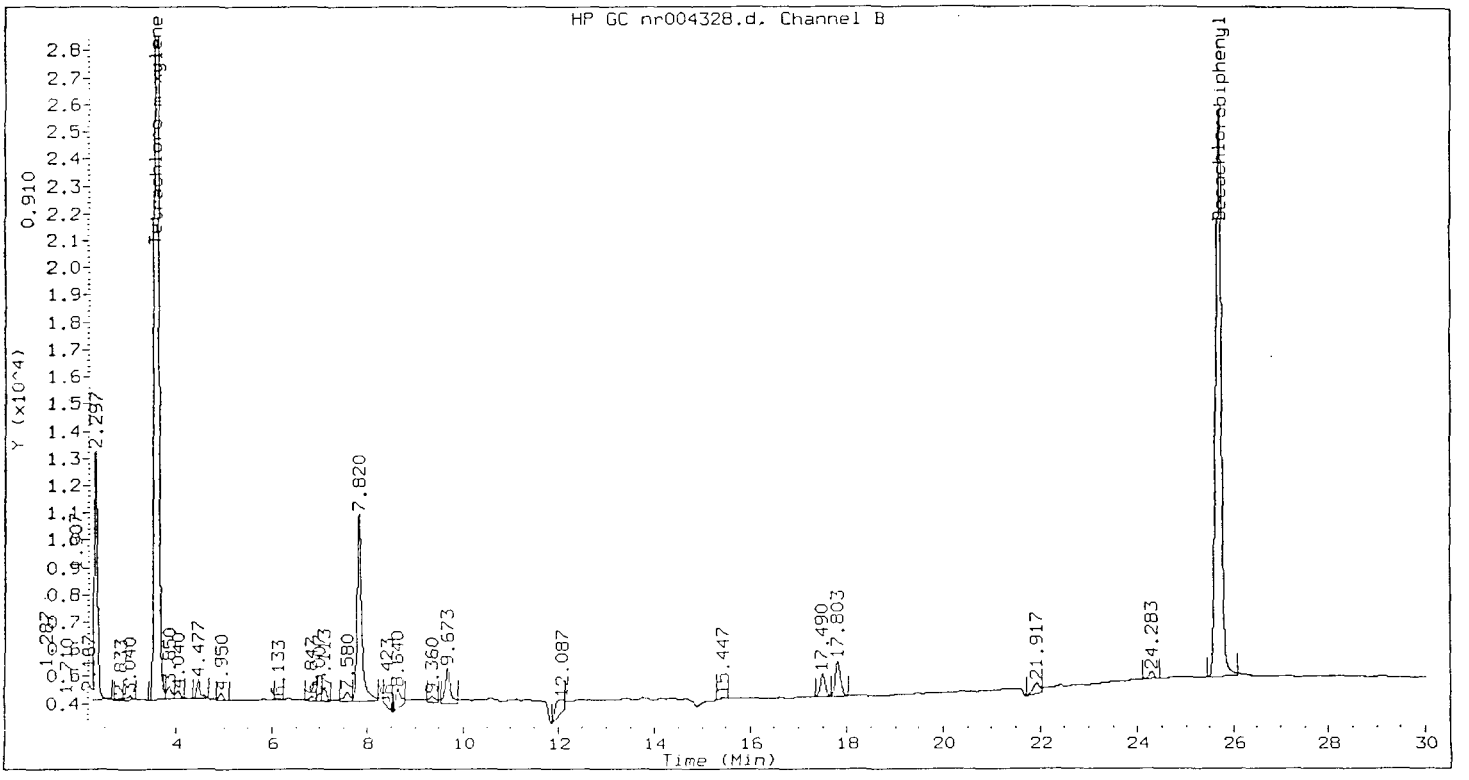
Average of peak concentrations: 990.00

COMMENTS:

* - Mutlicomponent peak not used in quantitation of compound.

M - Compound response manually integrated.

306039



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-22-98/22oct98b.b/Nr608.m
Sample Info : WP294;1000;5;
Lab ID : WP294
Inj Date : 23-OCT-1998 22:27
Operator : DMW
Cpnd Sublist: PCB+

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: BLANK

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Tetrachloro-m-xylene	3.563	3.601	0.037	265766	79.195	0.396
Decachlorobiphenyl	25.673	25.691	0.018	171913	53.951	0.270

306040

SINGLE COMPONENT COMPOUND CONTINUING CALIBRATION REPORT

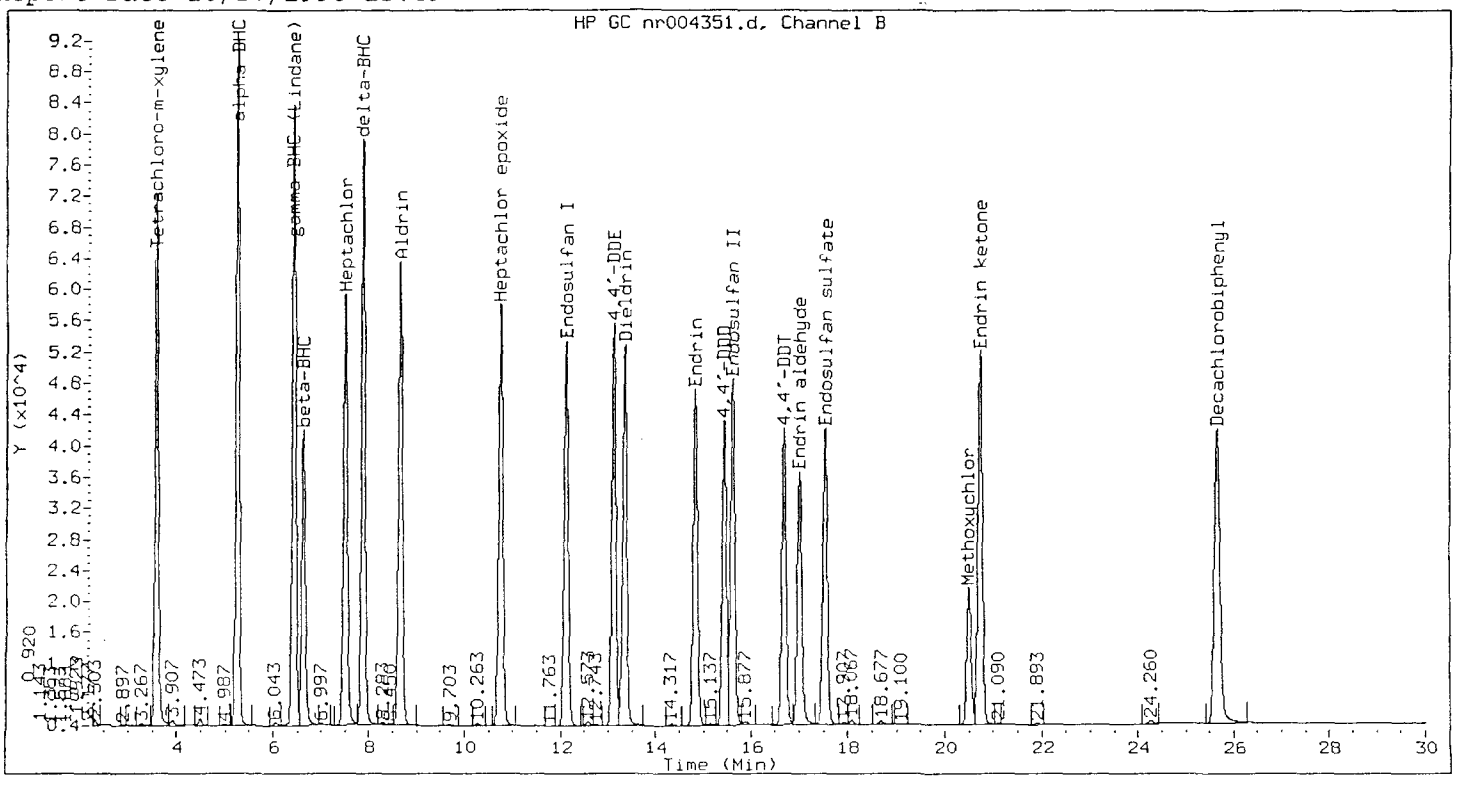
Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-26-98/26oct98a.b/nr004351.d
Method: /chem1/PESTGC6.i/608/rear/Oct98/10-26-98/26oct98a.b/Nr608.m

Sample Information: PEST MIX-100a
Injection Date: 26-OCT-1998 10:02

Compound	Exp Conc	Actual Conc	Percent Diff.
Aldrin	100	97.60	2.40
alpha-BHC	100	99.00	1.00
beta-BHC	100	96.97	3.03
delta-BHC	100	99.81	0.19
gamma-BHC (Lindane)	100	101.24	1.24
4,4'-DDD	100	97.32	2.68
4,4'-DDE	100	98.42	1.58
4,4'-DDT	100	92.28	7.72
Dieldrin	100	100.52	0.52
Endosulfan I	100	99.94	0.06
Endosulfan II	100	100.49	0.49
Endosulfan sulfate	100	95.42	4.58
Endrin	100	94.77	5.23
Endrin aldehyde	100	94.92	5.08
Endrin ketone	100	104.91	4.91
Heptachlor	100	89.96	10.04
Heptachlor epoxide	100	99.23	0.77
Methoxychlor	100	86.72	13.28
Tetrachloro-m-xylene	100	96.02	3.98
Decachlorobiphenyl	100	101.26	1.26

306041

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-26-98/26oct98a.b/nr004351.d Page 1
Report Date 10/27/1998 15:49



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-26-98/26oct98a.b/Nr608.m
Sample Info : PEST MIX-100a
Lab ID : PEST MIX-100a
Inj Date : 26-OCT-1998 10:02
Operator : DMW
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CCALIB_3

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Aldrin	8.647	8.686	0.039	347887	97.600	97.600
alpha-BHC	5.240	5.275	0.035	426633	99.002	99.002
beta-BHC	6.617	6.653	0.037	202990	96.967	96.967
delta-BHC	7.867	7.903	0.036	382086	99.812	99.812
gamma-BHC (Lindane)	6.417	6.454	0.037	401372	101.238	101.238
4,4'-DDD	15.427	15.463	0.036	229348	97.316	97.316
4,4'-DDE	13.107	13.143	0.036	297592	98.417	98.417
4,4'-DDT	16.677	16.714	0.037	231558	92.285	92.285
Dieldrin	13.340	13.378	0.038	305677	100.518	100.518

306042

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I		12.107	12.147	0.040	304544	99.940	99.940
Endosulfan II		15.600	15.640	0.040	280781	100.487	100.487
Endosulfan sulfate		17.520	17.559	0.039	243034	95.422	95.422
Endrin		14.827	14.866	0.039	266948	94.771	94.771
Endrin aldehyde		16.997	17.035	0.039	218710	94.917	94.917
Endrin ketone	(M)	20.727	20.764	0.038	314896	104.914	104.914
Heptachlor		7.493	7.531	0.037	315303	89.956	89.956
Heptachlor epoxide		10.733	10.774	0.041	321222	99.227	99.227
Methoxychlor	(M)	20.493	20.531	0.038	113778	86.724	86.724
Tetrachloro-m-xylene		3.567	3.601	0.034	322241	96.024	96.024
Decachlorobiphenyl		25.650	25.691	0.041	322647	101.256	101.256

COMMENTS:

M - Compound response manually integrated.

306043

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-26-98/26oct98a.b/nr004352.d
Method: /chem1/PESTGC6.i/608/rear/Oct98/10-26-98/26oct98a.b/Nr608.m

Sample Information: 1016/1260-1000a
Injection Date: 26-OCT-1998 10:35

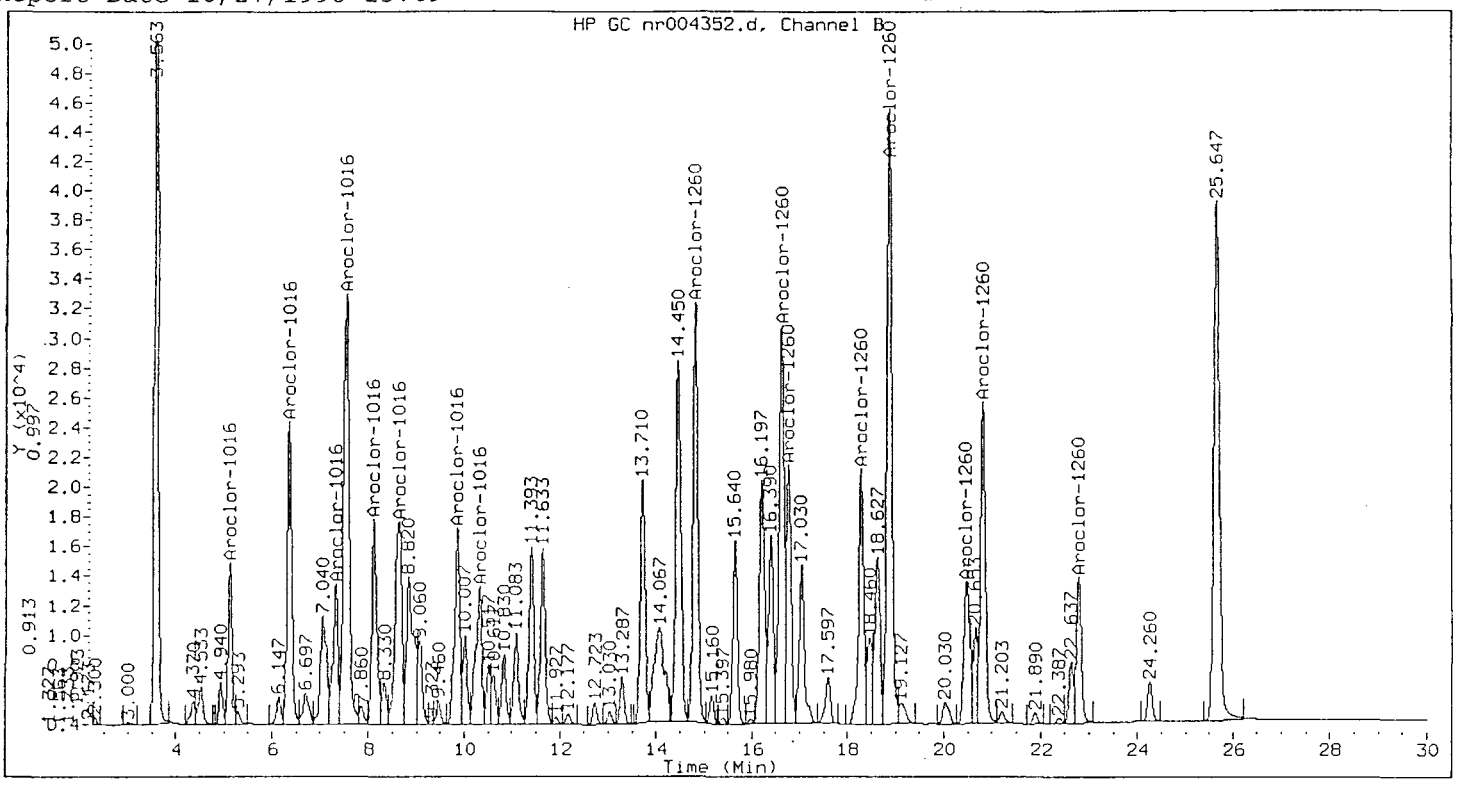
Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.
Aroclor-1016	1	5.120	1000	944.00	5.60
Aroclor-1016	2	6.350	1000	1007.97	0.80
Aroclor-1016	3	7.313	1000	1044.29	4.43
Aroclor-1016	4	7.537	1000	1014.43	1.44
Aroclor-1016	5	8.100	1000	1039.77	3.98
Aroclor-1016	6	8.623	1000	1188.29	18.83<- [illegible] 10/27/98
Aroclor-1016	7	9.847	1000	1031.88	3.19
Aroclor-1016	8	10.317	1000	1103.38	10.34

Aroclor-1260	1	14.810	1000	1057.53	5.75
Aroclor-1260	2	16.613	1000	0.00	100.00*
Aroclor-1260	3	16.760	1000	1039.55	3.96
Aroclor-1260	4	18.280	1000	1084.13	8.41
Aroclor-1260	5	18.863	1000	1058.29	5.83
Aroclor-1260	6	20.467	1000	1061.93	6.19
Aroclor-1260	7	20.807	1000	1079.67	7.97
Aroclor-1260	8	22.787	1000	1062.86	6.29

* Multicomponent peak not used in calibration.

306044

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-26-98/26oct98a.b/nr004352.d Page 1
Report Date 10/27/1998 15:49



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-26-98/26oct98a.b/Nr608.m
Sample Info : 1016/1260-1000a
Lab ID : 1016/1260-1000a
Inj Date : 26-OCT-1998 10:35
Operator : DMW
Cpnd Sublist: AR16600

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CCALIB_3

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Aroclor-1016	5.120	5.178	0.058	60524	944.002	944.002
(2)	6.350	6.411	0.061	134764	1007.969	1007.969
(3)	7.313	7.377	0.063	64474	1044.291	1044.291
(4)	7.537	7.597	0.061	242829	1014.432	1014.432
(5)	8.100	8.164	0.064	96059	1039.773	1039.773
(6)	8.623	8.684	0.061	129758	1188.293	1188.293
(7)	9.847	9.911	0.064	100261	1031.882	1031.882
(8)	10.317	10.382	0.065	81659	1103.377	1103.377
Average of peak concentrations:						1000.00
Aroclor-1260	14.810	14.873	0.063	191143	1057.526	1057.526
(2)	------	16.682	------	------	------	------ (*)
(3)	16.760	16.827	0.067	118043	1039.553	1039.553
(4)	18.280	18.347	0.067	126981	1084.129	1084.129
(5)	18.863	18.929	0.066	299933	1058.287	1058.287
(6)	20.467	20.534	0.067	82485	1061.932	1061.932

306045

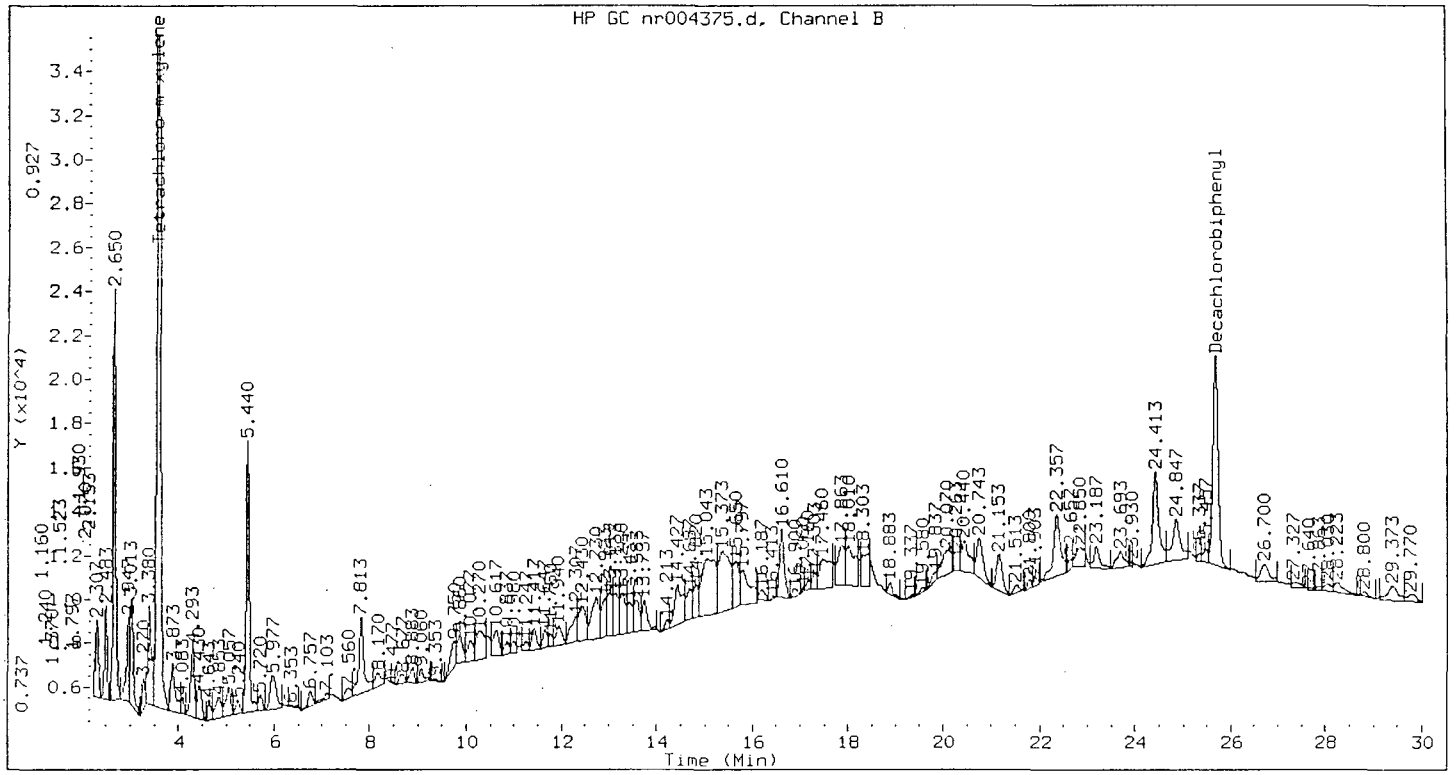
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)	20.807	20.873	0.066	156021	1079.670	1079.670
(8)	22.787	22.852	0.065	69498	1062.864	1062.864

Average of peak concentrations: 1100.00

COMMENTS:

* - Mutlicomponent peak not used in quantitation of compound.

306046



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-26-98/26oct98a.b/Nr608.m
Sample Info : 90838;990;5;
Lab ID : 90838 | Inst ID : PESTGC6.i
Inj Date : 27-OCT-1998 02:35 | Dil Factor : 1
Operator : DMW | Sample Matrix : WATER
Cpnd Sublist: PCB+ | Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Tetrachloro-m-xylene	3.570	3.601	0.031	221973	66.145	0.334
Decachlorobiphenyl	25.670	25.691	0.021	74877	23.499	0.119

306047

GC ORGANINCS INITIAL CALIBRATION SUMMARY

Instrument ID: PESTGC6.i Column ID: DB-608 Primary Column

Calibration Files:

/chem1/PESTGC6.i/608/rear/Oct98/10-27-98/27oct98a.b/nr004383.d
/chem1/PESTGC6.i/608/rear/Oct98/10-27-98/27oct98a.b/nr004384.d
/chem1/PESTGC6.i/608/rear/Oct98/10-27-98/27oct98a.b/nr004385.d
/chem1/PESTGC6.i/608/rear/Oct98/10-27-98/27oct98a.b/nr004386.d
/chem1/PESTGC6.i/608/rear/Oct98/10-27-98/27oct98a.b/nr004387.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Coefficients a0	a1	a2	%RSD or R^2	
Aldrin	3417.30	3490.18	3467.68	3765.11	3936.35		3615.32		6.21840	
alpha-BHC	3254.20	4233.88	4238.10	4617.37	4842.12	2.26822	0.00023	-8.63e-12	0.99989	*
beta-BHC	2178.80	2201.66	2045.67	2085.00	2133.96		2129.02		3.03187	
delta-BHC	3117.20	3861.74	3837.20	4192.40	4363.52	2.20081	0.00025	-9.384e-12	0.99987	*
gamma-BHC (Lindane)	3402.30	4063.54	3996.60	4288.79	4463.68		4042.98		9.97420	
4,4'-DDD	1904.30	2206.50	2241.48	2557.75	2723.20	3.15586	0.00042	-3.742e-11	0.99969	*
4,4'-DDE	2531.20	2849.30	2908.43	3326.38	3546.22	3.18480	0.00032	-2.257e-11	0.99968	*
4,4'-DDT	2161.00	2313.10	2303.40	2692.37	2973.23	2.86205	0.00040	-4.737e-11	0.99964	*
Dieldrin	2789.40	2969.88	2967.62	3336.64	3544.99		3121.71		9.90661	
Endosulfan I	3203.30	3085.18	2995.16	3272.97	3406.67		3192.66		5.02423	
Endosulfan II	2679.00	2785.20	2701.85	2986.68	3161.62		2862.87		7.20841	
Endosulfan sulfate	2495.10	2424.04	2361.91	2663.09	2856.42		2560.11		7.82269	
Endrin	2262.40	2514.70	2531.59	2921.02	3113.49	3.18590	0.00036	-2.963e-11	0.99963	*
Endrin aldehyde	2377.30	2412.74	2112.25	2406.14	2551.33		2371.95		6.74818	
Endrin ketone	2718.10	3101.36	3022.48	3301.99	3520.49		3132.88		9.62971	
Heptachlor	3728.20	3551.64	3416.82	3650.74	3802.05		3629.89		4.16117	
Heptachlor epoxide	3157.00	3308.96	3198.92	3450.73	3594.91		3342.10		5.42669	
Methoxychlor	1158.00	1199.14	1150.70	1309.83	1443.43		1252.22		9.93265	
Tetrachloro-m-xylene	3391.44	3408.40	3180.11	3228.73	3444.45		3330.62		3.54429	
Decachlorobiphenyl	3364.40	3297.74	3027.32	3059.95	3310.95		3212.07		4.86294	

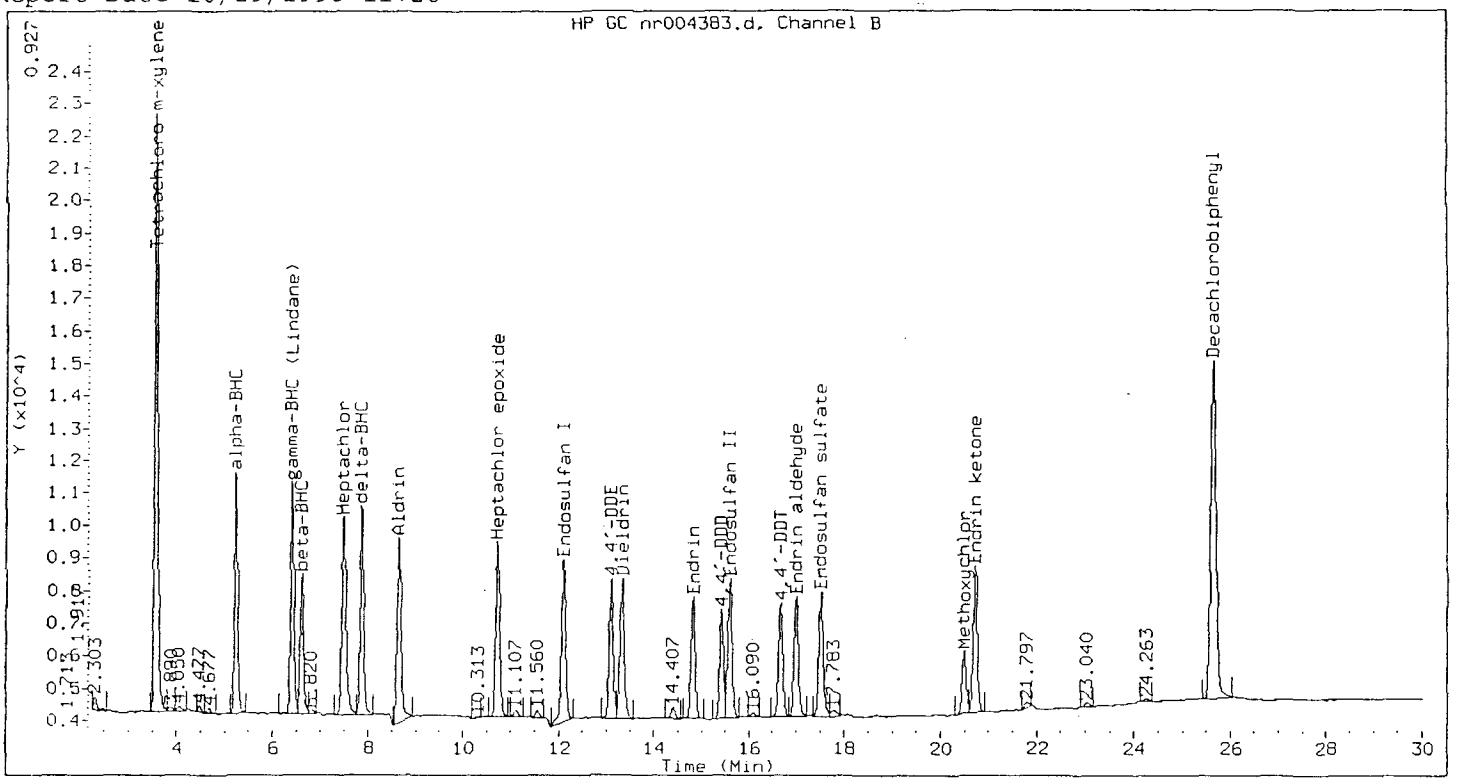
Comments:

* = %RSD exceeded maximum upper limit. Non-linear curve used for quantitation.

+ = Multi-component peak not used in calibration of compound.

306048

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-27-98/27oct98a.b/nr004383.d Page 1
Report Date 10/29/1998 11:26



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-27-98/27oct98a.b/Nr608.m
Sample Info : PEST MIX-10a
Lab ID : PEST MIX-10a
Inst ID : PESTGC6.i
Inj Date : 27-OCT-1998 13:58
Dil Factor : 1
Operator : DMW
Sample Matrix : WATER
Cpnd Sublist: SCpestRANGE
Sample Type: CALIB_1

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Aldrin		8.643	8.635	0.008	34173	9.452	9.452
alpha-BHC		5.237	5.229	0.007	32542	9.624	9.624
beta-BHC	(M)	6.617	6.617	0.000	21788	10.234	10.234
delta-BHC		7.863	7.855	0.009	31172	9.936	9.936
gamma-BHC (Lindane)	(M)	6.417	6.407	0.009	34023	8.415	8.415
4,4'-DDD		15.420	15.414	0.006	19043	11.053	11.053
4,4'-DDE	(M)	13.100	13.092	0.008	25312	11.267	11.267
4,4'-DDT		16.670	16.663	0.007	21610	11.580	11.580
Dieldrin	(M)	13.337	13.326	0.011	27894	8.936	8.936

306049

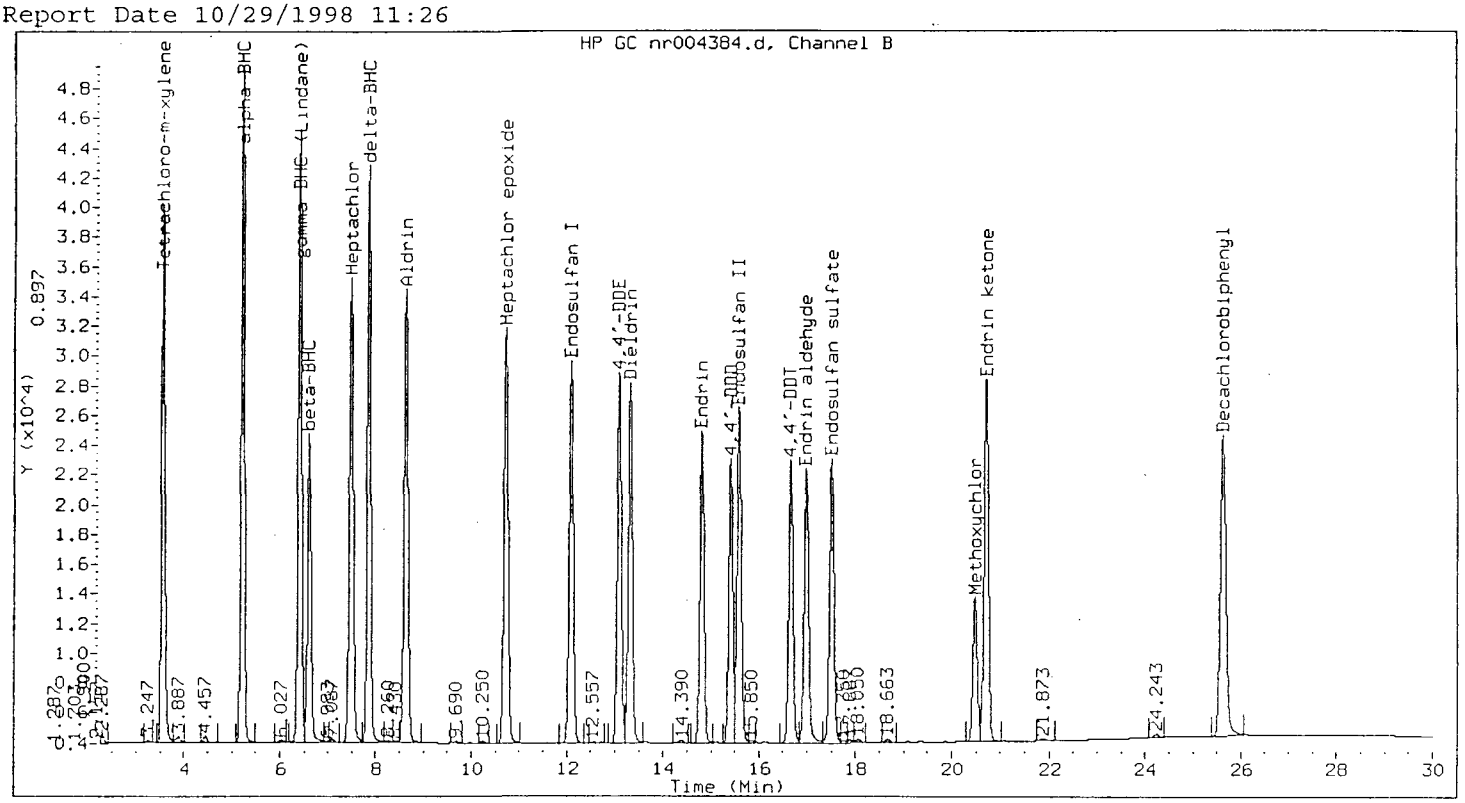
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I	12.103	12.094	0.009	32033	10.033	10.033
Endosulfan II	15.597	15.587	0.009	26790	9.358	9.358
Endosulfan sulfate	17.517	17.507	0.009	24951	9.746	9.746
Endrin	14.823	14.813	0.011	22624	11.425	11.425
Endrin aldehyde	16.993	16.983	0.011	23773	10.023	10.023
Endrin ketone	20.720	20.713	0.007	27181	8.676	8.676
Heptachlor	7.490	7.483	0.007	37282	10.271	10.271
Heptachlor epoxide	10.730	10.722	0.008	31570	9.446	9.446
Methoxychlor	20.493	20.483	0.010	11580	9.248	9.248
Tetrachloro-m-xylene	3.567	3.557	0.009	84786	25.456	25.456
Decachlorobiphenyl	25.640	25.632	0.008	84110	26.186	26.186

COMMENTS:

M - Compound response manually integrated.

306050

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-27-98/27oct98a.b/nr004384.d Page 1
Report Date 10/29/1998 11:26



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-27-98/27oct98a.b/Nr608.m
Sample Info : PEST MIX-50a
Lab ID : PEST MIX-50a
Inst ID : PESTGC6.i
Inj Date : 27-OCT-1998 14:30
Dil Factor : 1
Operator : DMW
Sample Matrix : WATER
Cpnd Sublist: SCpestRANGE
Sample Type: CALIB_2

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Aldrin	8.630	8.635	0.005	174509	48.269	48.269
alpha-BHC	5.220	5.229	0.009	211694	49.794	49.794
beta-BHC	6.600	6.617	0.017	110083	51.765	51.765
delta-BHC	7.850	7.855	0.005	193087	49.824	49.824
gamma-BHC (Lindane)	6.400	6.407	0.007	203177	50.378	50.378
4,4'-DDD	15.410	15.414	0.004	110325	48.530	48.530
4,4'-DDE	13.090	13.092	0.002	142465	48.308	48.308
4,4'-DDT	16.660	16.663	0.003	115655	46.474	46.474
Dieldrin	13.320	13.326	0.006	148494	47.533	47.533

306051

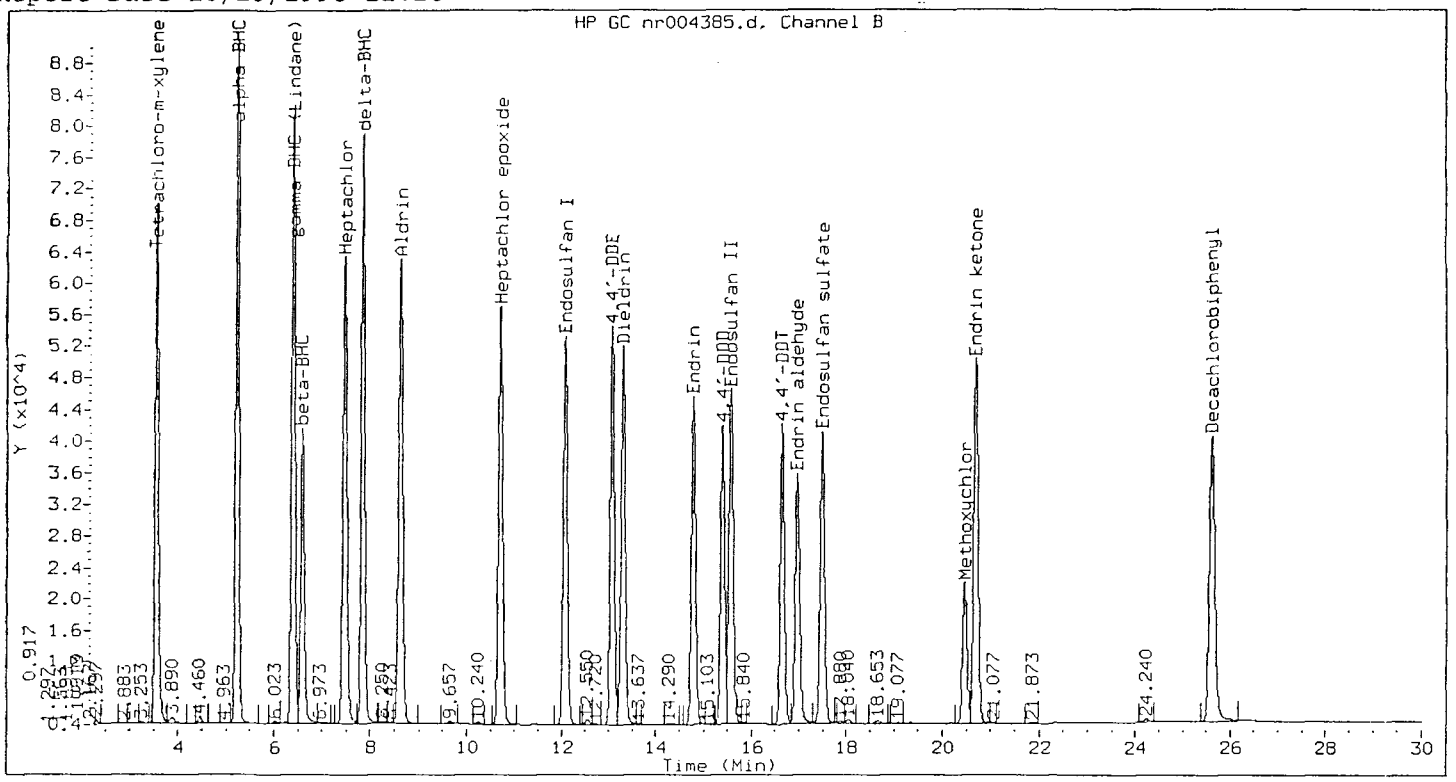
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I		12.090	12.094	0.004	154259	48.269	48.269
Endosulfan II	(M)	15.583	15.587	0.004	139260	48.619	48.619
Endosulfan sulfate	(M)	17.503	17.507	0.004	121202	47.343	47.343
Endrin		14.807	14.813	0.006	125735	48.591	48.591
Endrin aldehyde	(M)	16.977	16.983	0.006	120637	50.860	50.860
Endrin ketone		20.710	20.713	0.003	155068	49.485	49.485
Heptachlor		7.477	7.483	0.006	177582	48.922	48.922
Heptachlor epoxide		10.717	10.722	0.005	165448	49.504	49.504
Methoxychlor		20.477	20.483	0.007	59957	47.881	47.881
Tetrachloro-m-xylene	(M)	3.547	3.557	0.011	170420	51.168	51.168
Decachlorobiphenyl		25.623	25.632	0.009	164887	51.334	51.334

COMMENTS:

M - Compound response manually integrated.

306052

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-27-98/27oct98a.b/nr004385.d Page 1
Report Date 10/29/1998 11:26



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-27-98/27oct98a.b/Nr608.m
Sample Info : PEST MIX-100a
Lab ID : PEST MIX-100a
Inst ID : PESTGC6.i
Inj Date : 27-OCT-1998 15:03
Dil Factor : 1
Operator : DMW
Sample Matrix : WATER
Cpnd Sublist: SCpestRANGE
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aldrin		8.623	8.635	0.012	346768	95.916	95.916
alpha-BHC		5.223	5.229	0.006	423810	96.639	96.639
beta-BHC		6.597	6.617	0.020	204567	96.195	96.195
delta-BHC		7.843	7.855	0.011	383720	96.155	96.155
gamma-BHC (Lindane)		6.397	6.407	0.011	399660	99.097	99.097
4,4'-DDD		15.403	15.414	0.011	224148	94.388	94.388
4,4'-DDE		13.080	13.092	0.012	290843	94.273	94.273
4,4'-DDT		16.653	16.663	0.010	230340	92.557	92.557
Dieldrin	(M)	13.313	13.326	0.013	296762	95.022	95.022

306053

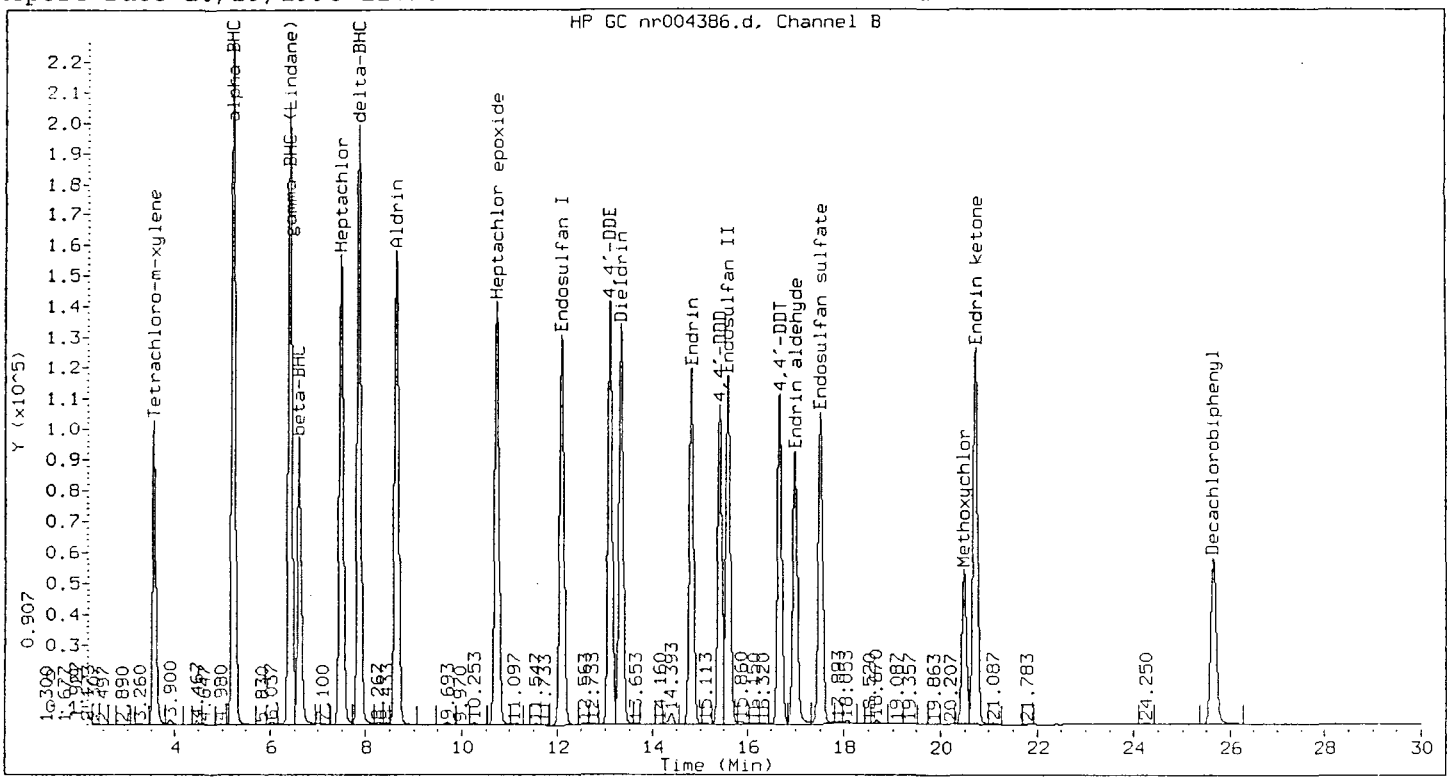
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I		12.080	12.094	0.014	299516	93.720	93.720
Endosulfan II	(M)	15.577	15.587	0.011	270185	94.376	94.376
Endosulfan sulfate		17.493	17.507	0.014	236191	92.258	92.258
Endrin		14.800	14.813	0.013	253159	93.650	93.650
Endrin aldehyde		16.970	16.983	0.013	211225	89.051	89.051
Endrin ketone	(M)	20.700	20.713	0.013	302248	96.476	96.476
Heptachlor		7.473	7.483	0.009	341682	94.130	94.130
Heptachlor epoxide		10.710	10.722	0.012	319892	95.716	95.716
Methoxychlor		20.473	20.483	0.010	115070	91.893	91.893
Tetrachloro-m-xylene		3.550	3.557	0.007	318011	95.481	95.481
Decachlorobiphenyl		25.620	25.632	0.012	302732	94.248	94.248

COMMENTS:

M - Compound response manually integrated.

306054

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-27-98/27oct98a.b/nr004386.d Page 1
Report Date 10/29/1998 11:26



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-27-98/27oct98a.b/Nr608.m
Sample Info : PEST MIX-250a
Lab ID : PEST MIX-250a
Inj Date : 27-OCT-1998 15:35
Operator : DMWr
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_4

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Aldrin		8.637	8.635	0.001	941277	260.358	260.358
alpha-BHC		5.230	5.229	0.001	1154343	252.031	252.031
beta-BHC	(M)	6.607	6.617	0.010	521249	245.184	245.184
delta-BHC		7.857	7.855	0.002	1048100	252.293	252.293
gamma-BHC (Lindane)	(M)	6.410	6.407	0.003	1072198	265.819	265.819
4,4'-DDD		15.417	15.414	0.003	639438	253.480	253.480
4,4'-DDE	(M)	13.093	13.092	0.001	831595	253.531	253.531
4,4'-DDT		16.663	16.663	0.000	673093	270.468	270.468
Dieldrin	(M)	13.327	13.326	0.001	834159	267.364	267.364

306055

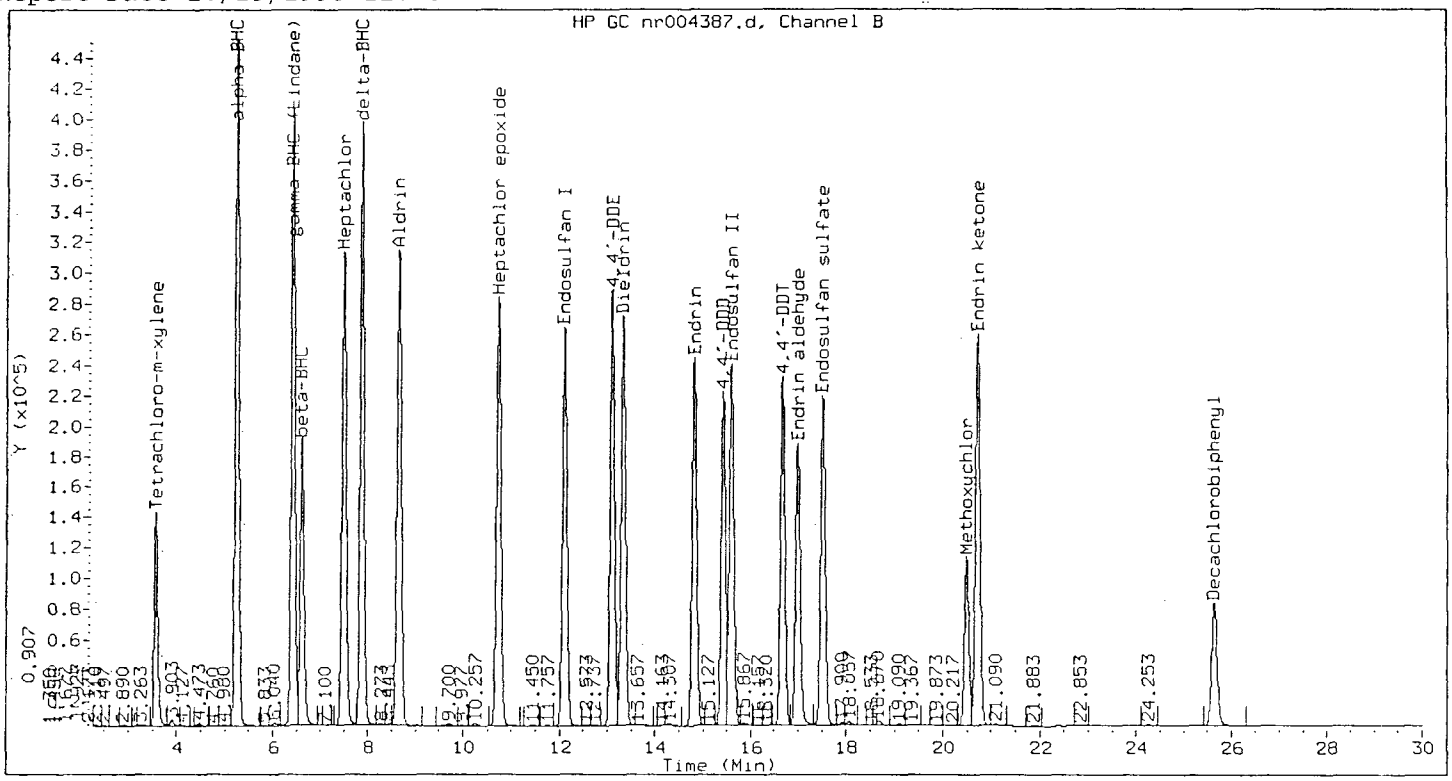
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I	(M)	12.097	12.094	0.003	818243	256.291	256.291
Endosulfan II		15.587	15.587	0.001	746669	260.811	260.811
Endosulfan sulfate		17.510	17.507	0.003	665773	260.056	260.056
Endrin		14.813	14.813	0.001	730254	253.811	253.811
Endrin aldehyde		16.983	16.983	0.001	601535	253.603	253.603
Endrin ketone		20.717	20.713	0.004	825497	263.494	263.494
Heptachlor		7.483	7.483	0.001	912686	251.436	251.436
Heptachlor epoxide		10.723	10.722	0.001	862682	258.125	258.125
Methoxychlor		20.487	20.483	0.003	327458	261.502	261.502
Tetrachloro-m-xylene		3.560	3.557	0.003	484309	145.411	145.411
Decachlorobiphenyl		25.637	25.632	0.005	458992	142.896	142.896

COMMENTS:

M - Compound response manually integrated.

306056

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-27-98/27oct98a.b/nr004387.d Page 1
Report Date 10/29/1998 11:26



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-27-98/27oct98a.b/Nr608.m
Sample Info : PEST MIX-500a
Lab ID : PEST MIX-500a
Inj Date : 27-OCT-1998 16:07
Operator : DMW
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_5

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Aldrin		8.643	8.635	0.008	1968176	544.398	544.398
alpha-BHC		5.237	5.229	0.007	2421059	499.643	499.643
beta-BHC	(M)	6.610	6.617	0.007	1066982	501.789	501.789
delta-BHC		7.860	7.855	0.005	2181760	499.591	499.591
gamma-BHC (Lindane)	(M)	6.413	6.407	0.006	2231841	553.060	553.060
4,4'-DDD		15.420	15.414	0.006	1361602	499.394	499.394
4,4'-DDE	(M)	13.097	13.092	0.005	1773111	499.380	499.380
4,4'-DDT		16.670	16.663	0.007	1486615	499.418	499.418
Dieldrin	(M)	13.333	13.326	0.007	1772494	568.752	568.752

306057

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I	12.100	12.094	0.006	1703334	533.520	533.520
Endosulfan II	15.593	15.587	0.006	1580812	552.177	552.177
Endosulfan sulfate	17.513	17.507	0.006	1428212	557.871	557.871
Endrin	14.820	14.813	0.007	1556747	499.338	499.338
Endrin aldehyde	16.990	16.983	0.007	1275663	537.812	537.812
Endrin ketone	20.717	20.713	0.004	1760244	561.861	561.861
Heptachlor	7.490	7.483	0.007	1901023	523.714	523.714
Heptachlor epoxide	10.730	10.722	0.008	1797455	537.821	537.821
Methoxychlor	20.487	20.483	0.003	721713	576.347	576.347
Tetrachloro-m-xylene	3.563	3.557	0.006	688889	206.835	206.835
Decachlorobiphenyl	25.640	25.632	0.008	662190	206.157	206.157

COMMENTS:

M - Compound response manually integrated.

306058

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-27-98/27oct98a.b/nr004388.d
Method: /chem1/PESTGC6.i/608/rear/Oct98/10-27-98/27oct98a.b/Nr608.m

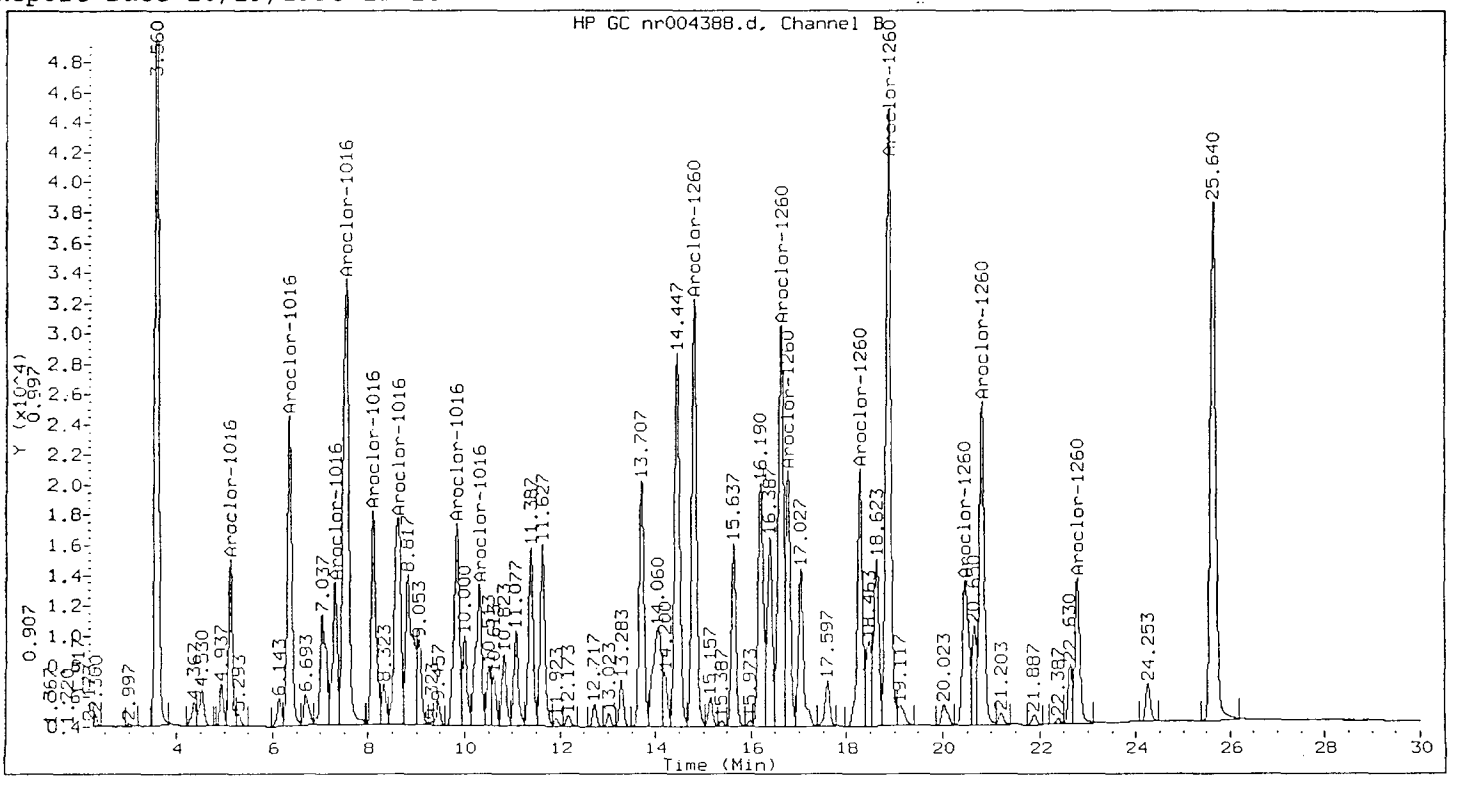
Sample Information: 1016/1260-1000a
Injection Date: 27-OCT-1998 16:40

Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.
Aroclor-1016	1	5.117	1000	939.48	6.05
Aroclor-1016	2	6.347	1000	995.00	0.50
Aroclor-1016	3	7.310	1000	1012.99	1.30
Aroclor-1016	4	7.533	1000	1030.26	3.03
Aroclor-1016	5	8.097	1000	1028.14	2.81
Aroclor-1016	6	8.620	1000	1172.55	17.26<- [illegible] 10/27/98
Aroclor-1016	7	9.840	1000	1022.58	2.26
Aroclor-1016	8	10.310	1000	1085.31	8.53
Aroclor-1260	1	14.803	1000	1060.16	6.02
Aroclor-1260	2	16.610	1000	0.00	100.00*
Aroclor-1260	3	16.757	1000	999.43	0.06
Aroclor-1260	4	18.277	1000	1044.79	4.48
Aroclor-1260	5	18.860	1000	1035.29	3.53
Aroclor-1260	6	20.463	1000	1084.34	8.43
Aroclor-1260	7	20.803	1000	1045.51	4.55
Aroclor-1260	8	22.783	1000	1023.86	2.39

* Multicomponent peak not used in calibration.

306059

Data File: /chem1/PESTGC6.i/608/rear/Oct98/10-27-98/27oct98a.b/nr004388.d Page 1
Report Date 10/29/1998 11:26



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-27-98/27oct98a.b/Nr608.m
Sample Info : 1016/1260-1000a
Lab ID : 1016/1260-1000a
Inj Date : 27-OCT-1998 16:40
Operator : DMW
Cpnd Sublist: AR16600

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CCALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Aroclor-1016	(M)	5.117	5.178	0.061	60279	939.482	939.482
(2)		6.347	6.411	0.064	133293	994.998	994.998
(3)		7.310	7.377	0.067	62714	1012.989	1012.989
(4)		7.533	7.597	0.064	246292	1030.255	1030.255
(5)		8.097	8.164	0.067	95066	1028.145	1028.145
(6)		8.620	8.684	0.064	128005	1172.552	1172.552
(7)		9.840	9.840	0.000	99444	1022.581	1022.581
(8)		10.310	10.310	0.000	80362	1085.311	1085.311
Average of peak concentrations:							1000.00
Aroclor-1260	(M)	14.803	14.873	0.070	191552	1060.160	1060.160
(2)		------	16.610	------	------	------	------ (*)
(3)		16.757	16.757	0.000	113932	999.432	999.432
(4)		18.277	18.277	0.000	122636	1044.788	1044.788
(5)		18.860	18.929	0.069	293871	1035.294	1035.294
(6)		20.463	20.463	0.000	84096	1084.342	1084.342

306060

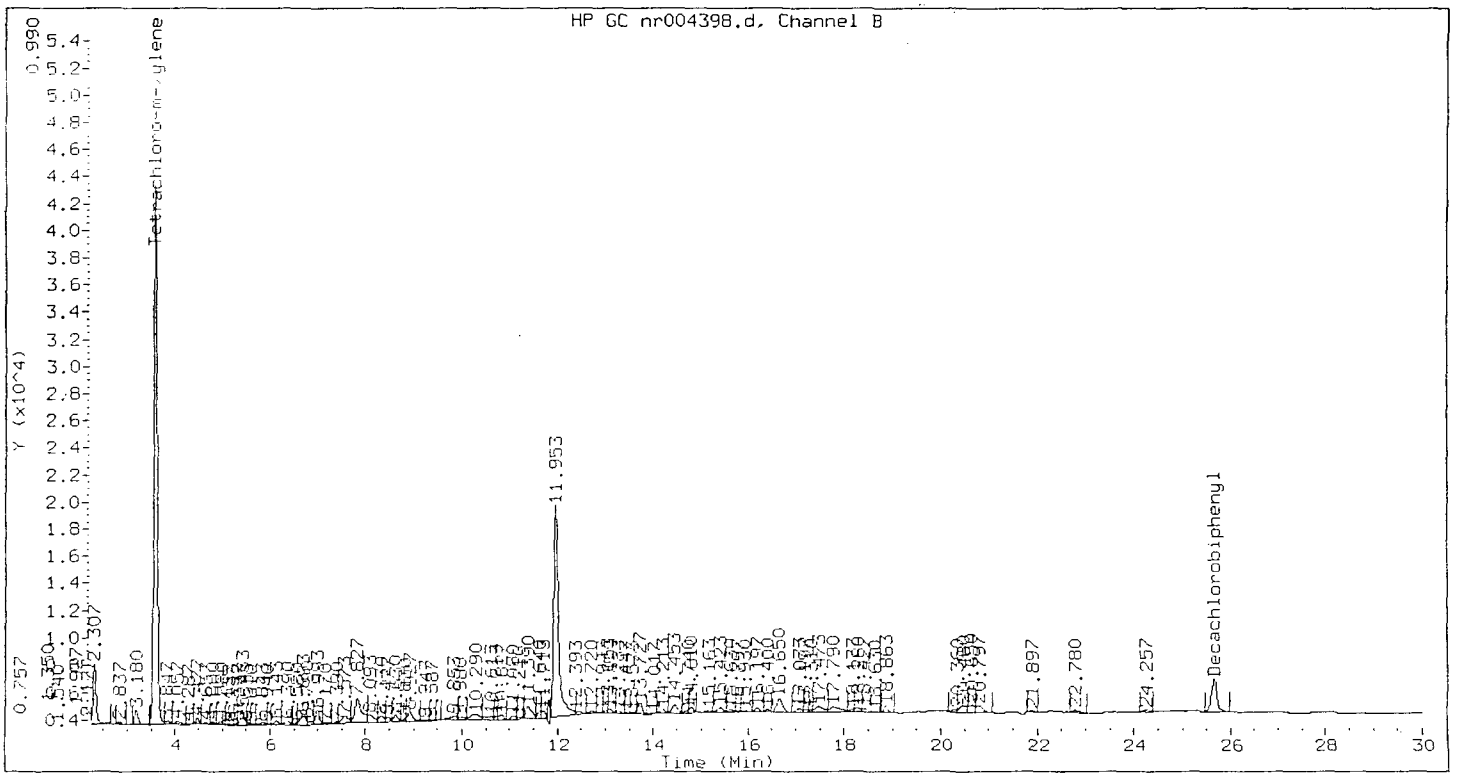
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)	20.803	20.873	0.070	151391	1045.515	1045.515
(8)	22.783	22.852	0.069	67023	1023.863	1023.863

Average of peak concentrations: 1000.00

COMMENTS:

* - Mutlicomponent peak not used in quantitation of compound.
M - Compound response manually integrated.

306061



Method : /chem1/PESTGC6.i/608/rear/Oct98/10-27-98/27oct98a.b/Nr608.m
Sample Info : 90839;920;5;
Lab ID : 90839 Inst ID : PESTGC6.i
Inj Date : 27-OCT-1998 22:04 Dil Factor : 1
Operator : DMW Sample Matrix : WATER
Cpnd Sublist: PCB+ Sample Type: SAMPLE

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Tetrachloro m xylene	(M)	3.567	3.557	0.009	182308	54.737	0.297
Decachlorobiphenyl		25.650	25.632	0.018	19480	6.065	0.033

COMMENTS:

M - Compound response manually integrated.

306062

PROJECT GC# 6

Notebook No. _____

Continued From Page _____

DATE	DATA FILE	VIAL #	SAMPLE NAME	IW/IB	FN	DF	METHOD	JOB #	QA #	EXT DATE	LAB PREP	TARGET BATCH	COMMENTS	LOT #
10-15-98	N2004112	51	PRIME ~~[illegible]~~											
	4113	52	MEXANE											M30298
	4114	53	END/DOTL									15061930	G 21:38	100298
	4115	54	PEST MIX - 10a										UPDATED 60%	081098
	4116	55	PEST MIX - 50a										↓	↓
	4117	56	PEST MIX - 100a											100298
	4118	57	PEST MIX - 250a											081098
	4119	58	PEST MIX - 500a											↓
	4120	59	1016/1260 - 200a											101698
	4121	60	1016/1260 - 500a											102998
	4122	61	1016/1260 - 1000a											090998
	4123	62	1016/1260 - 1500a											062998
	4124	63	1016/1260 - 2500a											↓
	4125	64	1221 - 1000a										G	042998
	4126	65	1232 - 1000a										G	060598
	4127	66	1242 - 1000a										G	081498
	4128	67	1248 - 1000a										G	070898
	4129	68	1254 - 1000a										G	031998
	4130	69	1262 - 1000a										G	100698
	4131	70	1268 - 1000a										G	060598
	4132	71	TOX - 1000a										G	072898
	4133	72	CHLOR. 1000a										G	071998
	4134	73	WP2586	1000	5		608			10-13-98	WP2586		G-ND	
	4135	74	4977BS	1000					4977				RR - 1016 HIGH	
	4136	75	89581	1000				I094					G-ND	
	4137	76	89581MS	1000									RR - 1016 HIGH	
	4138	77	89581MSD	1000									RR - 1016 HIGH	
	4139	78	WP2588	1000						10-15-98	WP2588		G-ND	
	4140	79	89648	940				I106	4977				G-ND	

Signed [illegible] Date 10/19/98

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Signed [illegible] Date 10.19.98

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PROJECT _____ Gas

Notebook No. _____

Continued From Page _____

DATE	DATA FILE	VIAL	SAMPLE NAME	IW/IV	FV	DF	METHOD	JOB #	OPR #	EXT DATE	LAB PREP	TARGET BATCH	COMMENTS	LOT #
10-22-98	NR004315	80	90358	960	5		608	I211	5000	10-19-98	WP292A	220CT98A	G-DDD, DDE	
	4316	81	90053.01	960		5		I210	4999		WP292		G-DIEL, END	
	4317	82	WP292AIT	1000		~~5~~					WP292A		G-ND	
	4318	83	90352	930				I211	5000				G-ND	
	4319	84	90354	890									G-ND	
	4320	85	90356	920									G-DDD, DIEL	
	4321	86	HXANE											W302298
	4322	87	END/DDTb									220CT98b		100298
	4323	51	PEST MIX-1000										G	100298
	4324	52	1016/1260-1000b										G	090398
	4325	53	1242-1000b										G	081498
	4326	54	1248-1000b										G	070898
	4327	55	1254-1000b										G	031995
	4328	56	WP294	1000	5		608			10-21-98	WP294		G-ND	
	4329	57	500608	1000					5006				G	
	4330	58	91285	1000				I363					G-ND	
	4331	59	91285MS	1000									G	
	4332	60	91285MSD	1000									G	
	4333	61	90378	320				I218					G-1248	
	4334	62	90379	290									RR c/o	
	4335	63	90380	300									RR 1:20	
	4336	64	90381	310									RR 1:20	
	4337	65	90382	310									RR 1:20	
	4338	66	90383	310									RR - c/o	
	4339	67	90384	240									RR 1:2	
	4340	68	90838	990				I250					RR - c/o	
	4341	69	90839	920									RR - c/o	
	4342	70	WP295A	1000						10-22-98	WP295A		G-ND	
	4343	71	90612	990				I250	5012				G-ND	

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Signed _____ Date 10-26-98

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PROJECT _____ GC#6 _____ Notebook No. _____ Continued From Page _____

DATE	DATA FILE	VIAL #	SAMPLE NAME	IN/IN	FV	DF	METHOD #	JOB #	QA #	EXT DATE	LAB PREP	TARGET BATCH	COMMENTS	LOT #
10-26-98	WR004349	51	HEXANE											130298
	4350	52	ENDO/DDT									26OCT98A	G	100298
	4351	53	PEST MIX-1000										G	100298
	4352	54	1016/1260-1000										G	090398
	4353	55	1242-1000										G	081498
	4354	56	1248-1000										G	070898
	4355	57	1254-1000										G	091998
	4356	58	1221-1000										G	101698
	4357	59	1232-1000										G	060898
	4358	60	1262-1000										G	100698
	4359	61	1268-1000										G	060598
	4360	62	TOX-1000										G	072898
	4361	63	CHLOR-1000										G	071998
	4362	64	WP292LT	1000	5		608			10-19-98	WP292		G-ND	
	~~4363~~ 4363	65	90054	890				I170	4999				G-DDD, DIEL, ENDO	
	4364	66	90055	920									G-DIEL, ENDO	
	4365	67	90056	910									G-ND, DDE	
	4366	68	90058	960									G-DDD	
	4367	69	90060	980									G-DDD	
	4368	70	90061	940									G-DDD	
	4369	71	90379	290				I218	5006	10-21-98	WP294		G-1248/1260	
	4370	72	90380D1	300		20							G-1248/1260	
	4371	73	90381D1	310		20							G-1248/1260	
	4372	74	90382D1	310		20							G-1248/1260	
	4373	75	90383	310									G-1248/1260	
	4374	76	90384D1	240		2							G-1248/1260	
	4375	77	90838	990				I250					G-ND	
	4376	78	~~90839~~ 839	920									RR - BAD INJECTION TOXX LOW	
	4377	79	89966	890				I157	4991	10-16-98	WP289B		CONF. RUNS OPAC.	

Signed _____ Date 10/27/98

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Signed _____ Date 10-27-98

306065

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PROJECT GC FG

Notebook No.

Continued From Page

DATE	DATA FILE	VIAL	SAMPLE NAME	IW/IV	FV	SF	METHOD II	JOB #	QA II	EXT DATE	LAB PREP	TARGET BATCH	COMMENTS	LOT #
10-27-98	NR004382	51	EDB/DBCP										G	100298
	4383	52	PEST MIX-100									270498a	WP294D 606	081098
	4384	53	PEST MIX-50											↓
	4385	54	PEST MIX-100											160298
	4386	55	PEST MIX-250											081098
	4387	56	PEST MIX-500											↓
	4388	57	1016/1260-1000										G	090398
	4389	58	1242-1000										G	081498
	4390	59	1248-1000										G	070598
	4391	60	1254-1000										G	091998
	4392	61	1232-1000										G	
	4393	62	WP294D	1000	5		606			10-21-98	WP294D		G-ND	
	4394	63	5008BS	1000					5009				RR	
	4395	64	91255	1000				I357					G-ND	
	4396	65	91255MS	1000									RR	
	4397	66	91255MSD	1000									RR	
	4398	67	90839	920				I280	5006	10-21-98	WP294		OR-NSE ~~RR-RECALCULATED~~	
	4399	68	90328	900				I209	5009		WP294D		G-ND	
	4400	69	90329	970									G-ND	
	4401	70	90330	930									G-ND	
	4402	71	90604	970				I247					G-ALO, ~~DDX~~, DIEL	
	4403	72	90605	930									G-DDD, DIEL	
	4404	73	90606	980									G-ALO, DDD	
	4405	74	WP296	1000						10-23-98	WP296		G-ND	
	4406	75	5012BS	1000					5012				G	
	4407	76	91990	1000				I459					G-ND	
	4408	77	91990MS	1000									G-1016 HIGH	
	4409	78	91990MSD	1000									G	
	4410	79	90931	950				I306					G-1248	

Signed

10/29/98

Date

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Signed

306066

10-28-98

Date

Continued on Page

Client ID: **DSSR-1**
Site: **Klockner & Klockner**

Lab Sample No: 90838
Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Aluminum	10200	58.2	P
Antimony	ND	4.6	P
Arsenic	6.0	3.8	P
Barium	606	1.4	P
Beryllium	4.5	0.20	P
Cadmium	17.5	0.40	P
Calcium	94100	42.2	P
Chromium	365	1.0	P
Cobalt	25.3	1.2	P
Copper	231	3.5	P
Iron	153000	41.5	P
Lead	304	2.5	P
Magnesium	41500	40.3	P
Manganese	794	1.1	P
Mercury	14.8	0.50	CV
Nickel	123	2.1	P
Potassium	106000	601	P
Selenium	ND	4.8	P
Silver	ND	1.4	P
Sodium	246000	263	P
Thallium	ND	4.8	P
Vanadium	21.2	1.9	P
Zinc	5730	9.0	P

M Column - Method Code (See Section 2 of Report)

306067

Client ID: **DSRW-1**
Site: **Klockner & Klockner**

Lab Sample No: 90839
Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Aluminum	30100	58.2	P
Antimony	ND	4.6	P
Arsenic	10.6	3.8	P
Barium	209	1.4	P
Beryllium	1.4	0.20	P
Cadmium	1.0	0.40	P
Calcium	159000	42.2	P
Chromium	155	1.0	P
Cobalt	11.5	1.2	P
Copper	263	3.5	P
Iron	37500	41.5	P
Lead	92.5	2.5	P
Magnesium	11700	40.3	P
Manganese	696	1.1	P
Mercury	0.15	0.10	CV
Nickel	85.2	2.1	P
Potassium	11400	300	P
Selenium	ND	4.8	P
Silver	ND	1.4	P
Sodium	319000	263	P
Thallium	ND	4.8	P
Vanadium	64.2	1.9	P
Zinc	684	4.5	P

M Column - Method Code (See Section 2 of Report)

306068

BLANKS

Lab Name: ENVIROTECH_RESEARCH_INC._

Lab Code: 12543_ Lab Job No.: _I280 Batch No.: 7096__

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	58.2	U	58.2	U	58.2	U	58.2	U	58.200	U	P
Antimony	4.6	U	4.6	U	4.6	U	4.6	U	4.600	U	P
Arsenic	3.8	U	3.8	U	3.8	U	3.8	U	3.800	U	P
Barium	1.4	U	1.4	U	1.4	U	1.4	U	1.400	U	P
Beryllium	0.2	U	0.2	U	0.2	U	0.2	U	0.200	U	P
Cadmium	0.4	U	0.4	U	0.4	U	0.4	U	0.400	U	P
Calcium	42.2	U	42.2	U	42.2	U	42.2	U	42.200	U	P
Chromium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Cobalt	1.2	U	1.2	U	1.2	U	1.2	U	1.200	U	P
Copper	3.5	U	3.5	U	3.5	U	3.5	U	3.500	U	P
Iron	41.5	U	41.5	U	41.5	U	41.5	U	41.500	U	P
Lead	2.5	U	2.5	U	2.5	U	2.5	U	2.500	U	P
Magnesium	40.3	U	40.3	U	40.3	U	40.3	U	40.300	U	P
Manganese	1.1	U	1.1	U	1.1	U	1.1	U	1.100	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	CV
Nickel	2.1	U	2.1	U	2.1	U	2.1	U	2.100	U	P
Potassium	300.3	U	300.3	U	300.3	U	328.7	B	300.300	U	P
Selenium	4.8	U	4.8	U	4.8	U	4.8	U	4.800	U	P
Silver	1.4	U	1.4	U	1.4	U	1.4	U	1.400	U	P
Sodium	65.7	U	65.7	U	-75.7	B	65.7	U	65.700	U	P
Thallium	4.8	U	4.8	U	4.8	U	4.8	U	4.800	U	P
Vanadium	1.9	U	1.9	U	1.9	U	1.9	U	1.900	U	P
Zinc	4.5	U	4.5	U	4.5	U	4.5	U	4.500	U	P
Molybdenu											NR

306069

BLANKS

Lab Name: ENVIROTECH_RESEARCH_INC._ _____

Lab Code: 12543_ Lab Job No.: _I280 _____ Batch No.: 7096__

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			58.2	U							P
Antimony			4.6	U							P
Arsenic			3.8	U							P
Barium			1.4	U							P
Beryllium			0.2	U							P
Cadmium			0.4	U							P
Calcium			42.2	U							P
Chromium			1.0	U							P
Cobalt			1.2	U							P
Copper			3.5	U							P
Iron			41.5	U							P
Lead			2.5	U							P
Magnesium			40.3	U							P
Manganese			1.1	U							P
Mercury			0.1	U	0.1	U	0.1	U			CV
Nickel			2.1	U							P
Potassium			300.3	U							P
Selenium			4.8	U							P
Silver			1.4	U							P
Sodium			-69.8	B							P
Thallium			4.8	U							P
Vanadium			1.9	U							P
Zinc			4.5	U							P
Molybdenu											NR

306070

306071

BLANKS

Lab Name: ENVIROTECH_RESEARCH_INC._ _____

Lab Code: 12543_ Lab Job No.: _I280 _____ Batch No.: 7096__

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury			0.1	U							CV
Nickel											NR
Potassium	300.3	U	300.3	U	300.3	U	300.3	U			P
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc	4.5	U	4.5	U	4.5	U	4.5	U			P
Molybdenu											NR

306072

BLANKS

Lab Name: ENVIROTECH_RESEARCH_INC._ _____

Lab Code: 12543_ Lab Job No.: _I280 _____ Batch No.: 7096__

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury	0.1	U	0.1	U							CV
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR

306073

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ENVIROTECH_RESEARCH_INC._

Lab Code: 12543_ Lab Job No.: I280 Batch No.: 7096__

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	250000.0	246247.5	98.5	250000.0	249796.2	99.9	246799.5	98.7	P
Antimony	1000.0	1001.58	100.2	1000.0	1005.64	100.6	1004.52	100.5	P
Arsenic	5000.0	4900.59	98.0	5000.0	4893.04	97.9	4931.36	98.6	P
Barium	10000.0	9850.80	98.5	10000.0	10136.14	101.4	9976.54	99.8	P
Beryllium	1000.0	964.24	96.4	1000.0	973.80	97.4	974.36	97.4	P
Cadmium	2500.0	2454.67	98.2	2500.0	2458.50	98.3	2471.22	98.8	P
Calcium	125000.0	123861.4	99.1	125000.0	125572.4	100.5	125211.4	100.2	P
Chromium	5000.0	5057.81	101.2	5000.0	5097.66	102.0	5113.34	102.3	P
Cobalt	2500.0	2463.26	98.5	2500.0	2493.05	99.7	2487.58	99.5	P
Copper	12500.0	12279.47	98.2	12500.0	12321.52	98.6	12332.64	98.7	P
Iron	100000.0	95850.03	95.9	100000.0	100809.6	100.8	97586.54	97.6	P
Lead	10000.0	9932.16	99.3	10000.0	9965.10	99.7	9977.46	99.8	P
Magnesium	125000.0	123237.6	98.6	125000.0	125334.9	100.3	124719.3	99.8	P
Manganese	5000.0	5009.70	100.2	5000.0	5036.14	100.7	5056.80	101.1	P
Mercury	5.0	4.98	99.6	5.0	5.04	100.8	5.01	100.2	CV
Nickel	2500.0	2438.82	97.6	2500.0	2464.02	98.6	2464.52	98.6	P
Potassium	50000.0	48983.27	98.0	50000.0	48847.93	97.7	49244.26	98.5	P
Selenium	5000.0	4835.88	96.7	5000.0	4871.46	97.4	4855.78	97.1	P
Silver	1250.0	1242.24	99.4	1250.0	1251.16	100.1	1247.14	99.8	P
Sodium	50000.0	49582.69	99.2	50000.0	49581.88	99.2	48663.36	97.3	P
Thallium	5000.0	4854.85	97.1	5000.0	4910.10	98.2	4905.73	98.1	P
Vanadium	2500.0	2496.89	99.9	2500.0	2501.72	100.1	2517.40	100.7	P
Zinc	2500.0	2494.27	99.8	2500.0	2497.07	99.9	2509.26	100.4	P
Molybdenu									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

306074

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ENVIROTECH_RESEARCH_INC._ _____

Lab Code: 12543_ Lab Job No.: I280 _____ Batch No.: 7096__

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				250000.0	247950.6	99.2	249479.6	99.8	P
Antimony				1000.0	997.33	99.7	1007.71	100.8	P
Arsenic				5000.0	4879.71	97.6	4927.23	98.5	P
Barium				10000.0	10070.19	100.7	10095.64	101.0	P
Beryllium				1000.0	971.00	97.1	976.94	97.7	P
Cadmium				2500.0	2449.56	98.0	2466.40	98.7	P
Calcium				125000.0	125121.5	100.1	125087.8	100.1	P
Chromium				5000.0	5085.31	101.7	5120.22	102.4	P
Cobalt				2500.0	2486.36	99.5	2493.15	99.7	P
Copper				12500.0	12279.25	98.2	12431.07	99.4	P
Iron				100000.0	99622.89	99.6	98341.42	98.3	P
Lead				10000.0	9922.68	99.2	9966.04	99.7	P
Magnesium				125000.0	124468.9	99.6	123958.6	99.2	P
Manganese				5000.0	5034.00	100.7	5073.73	101.5	P
Mercury				5.0	5.02	100.4	4.95	99.0	CV
Nickel				2500.0	2454.28	98.2	2463.03	98.5	P
Potassium				50000.0	48919.80	97.8	49408.65	98.8	P
Selenium				5000.0	4816.97	96.3	4857.72	97.2	P
Silver				1250.0	1246.49	99.7	1259.06	100.7	P
Sodium				50000.0	49597.24	99.2	49203.73	98.4	P
Thallium				5000.0	4889.76	97.8	4904.20	98.1	P
Vanadium				2500.0	2500.55	100.0	2527.83	101.1	P
Zinc				2500.0	2490.20	99.6	2514.57	100.6	P
Molybdenu									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

306075

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ENVIROTECH_RESEARCH_INC._ _____

Lab Code: 12543_ Lab Job No.: I280 _____ Batch No.: 7096__

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury				5.0	4.97	99.4	4.89	97.8	CV
Nickel									NR
Potassium	50000.0	48759.41	97.5	50000.0	48735.80	97.5	47706.73	95.4	P
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc	2500.0	2511.23	100.4	2500.0	2513.25	100.5	2456.94	98.3	P
Molybdenu									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

306076

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ENVIROTECH_RESEARCH_INC._ _____

Lab Code: 12543_ Lab Job No.: I280 _____ Batch No.: 7096__

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury				5.0	4.87	97.4			CV
Nickel									NR
Potassium				50000.0	48795.09	97.6			P
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc				2500.0	2551.13	102.0			P
Molybdenu									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

306077

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ENVIROTECH_RESEARCH_INC._ _____

Lab Code: 12543_ Lab Job No.: I280 _____ Batch No.: 7096__

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury	5.0	4.86	97.2	5.0	4.84	96.8			CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

306078

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ENVIROTECH_RESEARCH_INC._ _____

Lab Code: 12543_ Lab Job No.: _I280 _____ Batch No.: 7096__

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT__

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	500000	500000	494586	505407.6	101.1	486561	497566.6	99.5
Antimony		100		95.5	95.5		98.3	98.3
Arsenic		100		101.4	101.4		98.9	98.9
Barium		100		107.3	107.3		106.2	106.2
Beryllium		100		100.0	100.0		98.9	98.9
Cadmium		100		96.1	96.1		94.4	94.4
Calcium	500000	500000	460875	471508.8	94.3	458648	466731.6	93.3
Chromium		100		99.4	99.4		97.8	97.8
Cobalt		100		96.7	96.7		95.5	95.5
Copper		100		98.7	98.7		96.9	96.9
Iron	200000	200000	189563	191022.6	95.5	189705	190831.0	95.4
Lead		100		98.4	98.4		95.2	95.2
Magnesium	500000	500000	493994	516294.0	103.3	489253	510183.8	102.0
Manganese		100		100.5	100.5		99.3	99.3
Mercury								
Nickel		100		96.2	96.2		95.1	95.1
Potassium		10000		10120.2	101.2		9876.4	98.8
Selenium		100		96.6	96.6		92.0	92.0
Silver		100		104.4	104.4		102.6	102.6
Sodium		10000		11829.0	118.3		11805.0	118.0
Thallium		100		91.1	91.1		87.6	87.6
Vanadium		100		103.6	103.6		102.2	102.2
Zinc		100		100.7	100.7		96.9	96.9

306079

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ENVIROTECH_RESEARCH_INC._ _____

Lab Code: 12543_ Lab Job No.: _____ _____ Batch No.: 7096__

ICP ID Number: TJA- 61E____ ICS Source: INORG VENT__

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	500000	500000	500597	502766.3	100.6	509514	509713.9	101.9
Antimony		1000		1050.6	105.1		1045.2	104.5
Arsenic		1000		983.4	98.3		967.3	96.7
Barium		500		473.9	94.8		481.0	96.2
Beryllium		500		483.3	96.7		487.2	97.4
Cadmium		500		509.2	101.8		516.1	103.2
Calcium	500000	500000	511164	518802.9	103.8	521869	520613.3	104.1
Chromium		500		478.5	95.7		480.6	96.1
Cobalt		500		496.4	99.3		496.7	99.3
Copper		500		508.9	101.8		521.9	104.4
Iron	200000	200000	184616	185697.8	92.8	186971	186916.7	93.5
Lead		500		487.8	97.6		499.1	99.8
Magnesium	500000	500000	513164	515609.4	103.1	522925	520650.3	104.1
Manganese		500		488.7	97.7		490.2	98.0
Mercury								
Nickel		500		476.6	95.3		477.3	95.5
Potassium		10000		10710.5	107.1		9987.0	99.9
Selenium		1000		915.0	91.5		891.6	89.2
Silver		500		517.7	103.5		524.0	104.8
Sodium		10000		10020.7	100.2		10205.1	102.1
Thallium		1000		1039.2	103.9		1032.7	103.3
Vanadium		500		505.3	101.1		507.1	101.4
Zinc		500		504.4	100.9		509.6	101.9

306080

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ENVIROTECH RESEARCH INC.

Lab Code: 12543 Lab Job No.: I280 Batch No.: 7096

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	500000	500000	496375	512742.1	102.5	485436	500894.9	100.2
Antimony		100		100.8	100.8		99.1	99.1
Arsenic		100		100.7	100.7		100.8	100.8
Barium		100		112.1	112.1		108.9	108.9
Beryllium		100		98.3	98.3		97.2	97.2
Cadmium		100		95.8	95.8		94.6	94.6
Calcium	500000	500000	459761	462922.9	92.6	443220	457372.8	91.5
Chromium		100		98.6	98.6		97.1	97.1
Cobalt		100		96.8	96.8		95.5	95.5
Copper		100		101.5	101.5		99.9	99.9
Iron	200000	200000	189727	198170.0	99.1	186899	189118.0	94.6
Lead		100		94.1	94.1		92.5	92.5
Magnesium	500000	500000	508154	524586.4	104.9	488639	514317.1	102.9
Manganese		100		99.5	99.5		98.8	98.8
Mercury								
Nickel		100		95.6	95.6		94.4	94.4
Potassium		10000		9889.0	98.9		9810.5	98.1
Selenium		100		91.7	91.7		94.6	94.6
Silver		100		105.7	105.7		104.3	104.3
Sodium		10000		10307.0	103.1		10174.4	101.7
Thallium		100		89.4	89.4		90.7	90.7
Vanadium		100		101.3	101.3		100.9	100.9
Zinc		100		100.6	100.6		100.4	100.4

306081

LAB SAMPLE NO.

SPIKE SAMPLE RECOVERY

BSW102798

Lab Name: ENVIROTECH_RESEARCH_INC.

Lab Code: 12543 Lab Job No.: I280 Batch No.: 7096

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	80-120	1940.0780		58.2000	U	2000.00	97.0		P
Antimony	80-120	469.0200		4.6000	U	500.00	93.8		P
Arsenic	80-120	1845.8060		3.8000	U	2000.00	92.3		P
Barium	80-120	1966.3020		1.4000	U	2000.00	98.3		P
Beryllium	80-120	50.3010		0.2000	U	50.00	100.6		P
Cadmium	80-120	49.2910		0.4000	U	50.00	98.6		P
Calcium	80-120	19643.4240		42.2000	U	20000.00	98.2		P
Chromium	80-120	201.6060		1.0000	U	200.00	100.8		P
Cobalt	80-120	499.1320		1.2000	U	500.00	99.8		P
Copper	80-120	245.5960		3.5000	U	250.00	98.2		P
Iron	80-120	938.3540		41.5000	U	1000.00	93.8		P
Lead	80-120	495.1890		2.5000	U	500.00	99.0		P
Magnesium	80-120	19333.7110		40.3000	U	20000.00	96.7		P
Manganese	80-120	492.9190		1.1000	U	500.00	98.6		P
Mercury	80-120	1.0400		0.1000	U	1.00	104.0		CV
Nickel	80-120	498.4560		2.1000	U	500.00	99.7		P
Potassium	80-120	18721.3480		300.3000	U	20000.00	93.6		P
Selenium	80-120	1973.9830		4.8000	U	2000.00	98.7		P
Silver	80-120	48.9670		1.4000	U	50.00	97.9		P
Sodium	80-120	20141.8280		65.7000	U	20000.00	100.7		P
Thallium	80-120	1978.3270		4.8000	U	2000.00	98.9		P
Vanadium	80-120	502.9600		1.9000	U	500.00	100.6		P
Zinc	80-120	502.4870		4.5000	U	500.00	100.5		P
Molybdenu									NR

Comments:

306082

LAB SAMPLE NO.

SPIKE SAMPLE RECOVERY

91152MS

Lab Name: ENVIROTECH_RESEARCH_INC.

Lab Code: 12543 Lab Job No.: I280 Batch No.: 7096

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	80-120	2306.9700		343.3080		2000.00	98.2		P
Antimony	80-120	475.9040		4.6000	U	500.00	95.2		P
Arsenic	80-120	1871.9570		3.8000	U	2000.00	93.6		P
Barium	80-120	1997.2330		28.0500	B	2000.00	98.5		P
Beryllium	80-120	50.9440		0.2000	U	50.00	101.9		P
Cadmium	80-120	49.6100		0.4000	U	50.00	99.2		P
Calcium	80-120	24726.0980		4923.1710	B	20000.00	99.0		P
Chromium	80-120	203.1650		1.1480	B	200.00	101.0		P
Cobalt	80-120	507.4720		1.2000	U	500.00	101.5		P
Copper	80-120	247.0450		3.5000	U	250.00	98.8		P
Iron	80-120	987.9060		41.5000	U	1000.00	98.8		P
Lead	80-120	498.6330		2.5000	U	500.00	99.7		P
Magnesium	80-120	20975.0350		1325.5470	B	20000.00	98.2		P
Manganese	80-120	525.0290		25.8550		500.00	99.8		P
Mercury	80-120	1.0600		0.1000	U	1.00	106.0		CV
Nickel	80-120	504.7300		2.1000	U	500.00	100.9		P
Potassium	80-120	19666.7600		1091.3210	B	20000.00	92.9		P
Selenium	80-120	1974.4860		4.8000	U	2000.00	98.7		P
Silver	80-120	49.1520		1.4000	U	50.00	98.3		P
Sodium	80-120	31862.3280		11975.7700		20000.00	99.4		P
Thallium	80-120	1994.0600		4.8000	U	2000.00	99.7		P
Vanadium	80-120	504.4440		1.9000	U	500.00	100.9		P
Zinc	80-120	514.7790		7.6680	B	500.00	101.4		P
Molybdenu									NR

Comments:

306083

LAB SAMPLE NO.

SPIKE SAMPLE RECOVERY

91152MSD

Lab Name: ENVIROTECH_RESEARCH_INC.

Lab Code: 12543 Lab Job No.: I280 Batch No.: 7096

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	80-120	2328.6650		343.3080		2000.00	99.3		P
Antimony	80-120	462.3780		4.6000	U	500.00	92.5		P
Arsenic	80-120	1881.5460		3.8000	U	2000.00	94.1		P
Barium	80-120	2021.0020		28.0500	B	2000.00	99.6		P
Beryllium	80-120	50.9490		0.2000	U	50.00	101.9		P
Cadmium	80-120	49.4780		0.4000	U	50.00	99.0		P
Calcium	80-120	24849.7540		4923.1710	B	20000.00	99.6		P
Chromium	80-120	202.6590		1.1480	B	200.00	100.8		P
Cobalt	80-120	509.2910		1.2000	U	500.00	101.9		P
Copper	80-120	245.9150		3.5000	U	250.00	98.4		P
Iron	80-120	1010.2100		41.5000	U	1000.00	101.0		P
Lead	80-120	497.7030		2.5000	U	500.00	99.5		P
Magnesium	80-120	21111.4840		1325.5470	B	20000.00	98.9		P
Manganese	80-120	524.0850		25.8550		500.00	99.6		P
Mercury	80-120	1.0600		0.1000	U	1.00	106.0		CV
Nickel	80-120	505.2290		2.1000	U	500.00	101.0		P
Potassium	80-120	19667.8030		1091.3210	B	20000.00	92.9		P
Selenium	80-120	1991.4710		4.8000	U	2000.00	99.6		P
Silver	80-120	48.6750		1.4000	U	50.00	97.4		P
Sodium	80-120	32442.7360		11975.7700		20000.00	102.3		P
Thallium	80-120	2007.4800		4.8000	U	2000.00	100.4		P
Vanadium	80-120	501.8620		1.9000	U	500.00	100.4		P
Zinc	80-120	518.0010		7.6680	B	500.00	102.1		P
Molybdenu									NR

Comments:

306084

LAB SAMPLE NO.

DUPLICATES

91152D

Lab Name: ENVIROTECH_RESEARCH_INC.

Lab Code: 12543 Lab Job No.: I280 Batch No.: 7096

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	200.0	343.3080		334.9010		2.5		P
Antimony		4.6000	U	4.6000	U			P
Arsenic		3.8000	U	3.8000	U			P
Barium		28.0500	B	28.6270	B	2.0		P
Beryllium		0.2000	U	0.2000	U			P
Cadmium		0.4000	U	0.4000	U			P
Calcium		4923.1710	B	4974.4230	B	1.0		P
Chromium		1.1480	B	1.6550	B	36.2		P
Cobalt		1.2000	U	1.2240	B	200.0		P
Copper		3.5000	U	3.5000	U			P
Iron		41.5000	U	41.5000	U			P
Lead		2.5000	U	2.5000	U			P
Magnesium		1325.5470	B	1344.8790	B	1.4		P
Manganese	15.0	25.8550		26.3450		1.9		P
Mercury		0.1000	U	0.1000	U			CV
Nickel		2.1000	U	2.1000	U			P
Potassium		1091.3210	B	1166.0780	B	6.6		P
Selenium		4.8000	U	4.8000	U			P
Silver		1.4000	U	1.4000	U			P
Sodium	5000.0	11975.7700		12042.5470		0.6		P
Thallium		4.8000	U	4.8000	U			P
Vanadium		1.9000	U	1.9000	U			P
Zinc		7.6680	B	11.2920	B	38.2		P
Molybdenu								NR

306085

LAB SAMPLE NO.

DUPLICATES

91152MS/MS

Lab Name: ENVIROTECH_RESEARCH_INC.

Lab Code: 12543 Lab Job No.: I280 Batch No.: 7096

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		2306.9700		2328.6650		0.9		P
Antimony		475.9040		462.3780		2.9		P
Arsenic		1871.9570		1881.5460		0.5		P
Barium		1997.2330		2021.0020		1.2		P
Beryllium		50.9440		50.9490		0.0		P
Cadmium		49.6100		49.4780		0.3		P
Calcium	5000.0	24726.0980		24849.7540		0.5		P
Chromium		203.1650		202.6590		0.2		P
Cobalt		507.4720		509.2910		0.4		P
Copper		247.0450		245.9150		0.5		P
Iron		987.9060		1010.2100		2.2		P
Lead		498.6330		497.7030		0.2		P
Magnesium	5000.0	20975.0350		21111.4840		0.6		P
Manganese		525.0290		524.0850		0.2		P
Mercury		1.0600		1.0600		0.0		CV
Nickel		504.7300		505.2290		0.1		P
Potassium	5000.0	19666.7600		19667.8030		0.0		P
Selenium		1974.4860		1991.4710		0.9		P
Silver	10.0	49.1520		48.6750		1.0		P
Sodium		31862.3280		32442.7360		1.8		P
Thallium		1994.0600		2007.4800		0.7		P
Vanadium		504.4440		501.8620		0.5		P
Zinc		514.7790		518.0010		0.6		P
Molybdenu								NR

306086

LABORATORY CONTROL SAMPLE

Lab Name: ENVIROTECH_RESEARCH_INC._ _____

Lab Code: 12543_ Lab Job No.: _____ _____ Batch No.: 7096__

Solid LCS Source: _____

Aqueous LCS Source: INORG VENT__

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	1000.0	1016.21	101.6						
Antimony	1000.0	964.37	96.4						
Arsenic	1000.0	988.68	98.9						
Barium	1000.0	998.59	99.9						
Beryllium	1000.0	988.67	98.9						
Cadmium	1000.0	1015.76	101.6						
Calcium	1000.0	987.87	98.8						
Chromium	1000.0	1008.23	100.8						
Cobalt	1000.0	1031.50	103.2						
Copper	1000.0	992.84	99.3						
Iron	1000.0	1036.61	103.7						
Lead	1000.0	1017.57	101.8						
Magnesium	1000.0	952.09	95.2						
Manganese	1000.0	1003.08	100.3						
Mercury	5.0	5.01	100.2						
Nickel	1000.0	1027.02	102.7						
Potassium	10000.0	9118.78	91.2						
Selenium	1000.0	1003.23	100.3						
Silver	1000.0	963.82	96.4						
Sodium	1000.0	1090.70	109.1						
Thallium	1000.0	1004.18	100.4						
Vanadium	1000.0	1003.77	100.4						
Zinc	1000.0	1011.68	101.2						
Molybdenu									

306087

LAB SAMPLE NO.

ICP SERIAL DILUTION

91152L

Lab Name: ENVIROTECH_RESEARCH_INC.

Lab Code: 12543 Lab Job No.: I280 Batch No.: 7096

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	343.31		291.00	U	100.0		P
Antimony	4.60	U	23.00	U			P
Arsenic	3.80	U	19.00	U			P
Barium	28.05	B	25.48	B	9.2		P
Beryllium	0.20	U	1.00	U			P
Cadmium	0.40	U	2.00	U			P
Calcium	4923.17	B	4825.54	B	2.0		P
Chromium	1.15	B	5.00	U	100.0		P
Cobalt	1.20	U	6.00	U			P
Copper	3.50	U	17.50	U			P
Iron	41.50	U	207.50	U			P
Lead	2.50	U	12.50	U			P
Magnesium	1325.55	B	1135.21	B	14.4		P
Manganese	25.86		23.74	B	8.2		P
Mercury							NR
Nickel	2.10	U	10.50	U			P
Potassium	1091.32	B	2261.78	B	107.3		P
Selenium	4.80	U	24.00	U			P
Silver	1.40	U	7.00	U			P
Sodium	11975.77		12121.10	B	1.2		P
Thallium	4.80	U	24.00	U			P
Vanadium	1.90	U	9.50	U			P
Zinc	7.67	B	22.50	U	100.0		P

306088

ANALYSIS RUN LOG

Lab Name: ENVIROTECH_RESEARCH_INC._ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:7096__

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 10/27/98 End Date: 10/28/98

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
D1-BLANK	1.00	1946		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
STD2	1.00	1951		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X	X
STD3	1.00	1956		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X	X
STD4	1.00	2002		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	2009																									
ICV/CCV	1.00	2014		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
ICB/CCB	1.00	2020		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
ICSA	1.00	2025		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
ICSAB	1.00	2030		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
ZZZZZZ	1.00	2036																									
MCL	1.00	2041																									
SW102798	1.00	2046		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
BW102798	1.00	2052		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
LCSW	1.00	2057		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
91152D	1.00	2102		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
91152	1.00	2108		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
91152L	1.00	2113		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
CCV	1.00	2118		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
CCB	1.00	2124		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
91152MS	1.00	2129		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
91152MSD	1.00	2134		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
ZZZZZZ	1.00	2140																									
92298	1.00	2145												X								X					
91153	1.00	2151		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
91154	1.00	2156		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
91155	1.00	2201		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
91156	1.00	2207		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
91157	1.00	2212		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
91158	1.00	2217		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
CCV	1.00	2223		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
CCB	1.00	2228		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
91159	1.00	2233		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	

306089

ANALYSIS RUN LOG

Lab Name: ENVIROTECH_RESEARCH_INC._ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:7096__

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 10/27/98 End Date: 10/28/98

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
91160	1.00	2239		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
91161	1.00	2244		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
91162	1.00	2249		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
91163	1.00	2255		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
91164	1.00	2300		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
91165	1.00	2306		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
91167	1.00	2311		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
90679	1.00	2316		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
90680	1.00	2322		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
CCV	1.00	2327		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
CCB	1.00	2332		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
90838	1.00	2338		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X		
90839	1.00	2343		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
ICSA	1.00	2349		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
ICSAB	1.00	2354		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
CCV	1.00	2359		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
CCB	1.00	0005		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	

306090

ANALYSIS RUN LOG

Lab Name: ENVIROTECH_RESEARCH_INC._ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:7096__

Instrument ID Number: TJA- 61E_____ Method: P_

Start Date: 10/28/98 End Date: 10/28/98

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
D1-BLANK	1.00	1409		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
STD2	1.00	1413		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
STD3	1.00	1418		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
STD4	1.00	1422		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	1429		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ICV/CCV	1.00	1433		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
ICB/CCB	1.00	1437		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
ICSA	1.00	1441		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
ICSAB	1.00	1445		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
MCL	1.00	1449		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	1454		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
SW102798	1.00	1458		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
BW102798	1.00	1502		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
LCSW	1.00	1506		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
91152D	1.00	1510		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
91152	1.00	1514		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
91152L	1.00	1518		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
CCV	1.00	1522		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
CCB	1.00	1527		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
91152MS	1.00	1531		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
91152MSD	1.00	1535		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
ZZZZZZ	1.00	1539		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
91153	1.00	1543		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
91154	1.00	1547		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
91155	1.00	1551		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
91156	1.00	1555		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
91157	1.00	1600		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
91158	1.00	1604		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
CCV	1.00	1608		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
CCB	1.00	1612		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
91159	1.00	1616		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_
91160	1.00	1620		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_

306091

ANALYSIS RUN LOG

Lab Name: ENVIROTECH_RESEARCH_INC._ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:7096__

Instrument ID Number: TJA- 61E_____ Method: P_

Start Date: 10/28/98 End Date: 10/28/98

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
91161	2.00	1624																					X				
91162	1.00	1629																					X				
91163	1.00	1633																					X				
91164	1.00	1637																					X				
91165	1.00	1641																					X				
91167	1.00	1645																					X				
90679	1.00	1649																					X				
90680	1.00	1653																					X				
CCV	1.00	1657																					X				
CCB	1.00	1702																					X				
90838	4.00	1706																					X				
90839	4.00	1710																					X				
ICSA	1.00	1714																					X				
ICSAB	1.00	1718																					X				
CCV	1.00	1722																					X				
CCB	1.00	1726																					X				

306092

ANALYSIS RUN LOG

Lab Name: ENVIROTECH_RESEARCH_INC._ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:7096__

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 10/29/98 End Date: 10/29/98

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
D1-BLANK	1.00	0045		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
STD2	1.00	0050		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
STD3	1.00	0055		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
STD4	1.00	0101		X	_	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	0108		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ICV/CCV	1.00	0113		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	X	_
ICB/CCB	1.00	0118		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	X	_
ICSA	1.00	0124		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	X	_
ICSAB	1.00	0129		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	X	_
ZZZZZZ	1.00	0135		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
MCL	1.00	0140		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	0145		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	0151		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	0156		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	0201		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	0207		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	0212		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CCV	1.00	0218		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	X	_
CCB	1.00	0223		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	X	_
ZZZZZZ	1.00	0228		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	0234		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	0239		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	0244		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	0250		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
90838	2.00	0255		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	X	_
ZZZZZZ	1.00	0301		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	0306		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CCV	1.00	0311		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	X	_
CCB	1.00	0317		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	X	_
ZZZZZZ	5.00	0322		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	5.00	0327		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ICSA	1.00	0333		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	X	_
				_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

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ANALYSIS RUN LOG

Lab Name: ENVIROTECH_RESEARCH_INC._ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:7096__

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 10/29/98 End Date: 10/29/98

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
ICSAB	1.00	0338																		X						X	
CCV	1.00	0344																		X						X	
CCB	1.00	0349																		X						X	

306094

ANALYSIS RUN LOG

Lab Name: ENVIROTECH_RESEARCH_INC._ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:7096__

Instrument ID Number: LEEMAN PS200_ Method: CV

Start Date: 10/27/98 End Date: 10/27/98

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
STD1	1.00	1750																X									
STD2	1.00	1753																X									
STD3	1.00	1756																X									
STD4	1.00	1759																X									
STD5	1.00	1802																X									
STD6	1.00	1805																X									
ICV/ACCV	1.00	1808																X									
ICB/CCB	1.00	1811																X									
ZZZZZZ	1.00	1813																									
ZZZZZZ	1.00	1816																									
ZZZZZZ	1.00	1819																									
ZZZZZZ	1.00	1823																									
ZZZZZZ	1.00	1826																									
ZZZZZZ	1.00	1829																									
ZZZZZZ	1.00	1832																									
ZZZZZZ	1.00	1834																									
ZZZZZZ	1.00	1837																									
ZZZZZZ	1.00	1840																									
CCV	1.00	1843																X									
CCB	1.00	1846																X									
ZZZZZZ	1.00	1849																									
ZZZZZZ	1.00	1852																									
ZZZZZZ	1.00	1855																									
ZZZZZZ	1.00	1858																									
ZZZZZZ	1.00	1900																									
ZZZZZZ	1.00	1903																									
ZZZZZZ	1.00	1906																									
ZZZZZZ	1.00	1909																									
ZZZZZZ	1.00	1912																									
ZZZZZZ	1.00	1915																									
CCV	1.00	1918																X									
CCB	1.00	1921																X									

306095

ANALYSIS RUN LOG

Lab Name: ENVIROTECH_RESEARCH_INC._ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:7096__

Instrument ID Number: LEEMAN PS200_ Method: CV

Start Date: 10/27/98 End Date: 10/27/98

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
ZZZZZZ	1.00	1924																									
ZZZZZZ	1.00	1926																									
ZZZZZZ	1.00	1929																									
ZZZZZZ	1.00	1932																									
ZZZZZZ	1.00	1935																									
ZZZZZZ	1.00	1938																									
CCV	1.00	1941																X									
CCB	1.00	1944																X									
ZZZZZZ	1.00	1947																									
ZZZZZZ	1.00	1950																									
ZZZZZZ	1.00	1953																									
ZZZZZZ	1.00	1956																									
ZZZZZZ	1.00	1958																									
ZZZZZZ	1.00	2001																									
ZZZZZZ	1.00	2004																									
ZZZZZZ	1.00	2007																									
ZZZZZZ	1.00	2010																									
CCV	1.00	2013																X									
CCB	1.00	2016																X									
BW102798	1.00	2019																X									
SW102798	1.00	2022																X									
LCSW	1.00	2025																X									
91152	1.00	2028																X									
91152D	1.00	2031																X									
91152MS	1.00	2034																X									
91152MSD	1.00	2037																X									
91153	1.00	2040																X									
91154	1.00	2043																X									
91155	1.00	2045																X									
CCV	1.00	2048																X									
CCB	1.00	2051																X									
91156	1.00	2054																X									

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ANALYSIS RUN LOG

Lab Name: ENVIROTECH_RESEARCH_INC._ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:7096__

Instrument ID Number: LEEMAN PS200_ Method: CV

Start Date: 10/27/98 End Date: 10/27/98

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
91157	1.00	2057																X									
91158	1.00	2100																X									
91159	1.00	2103																X									
91160	1.00	2106																X									
91161	1.00	2109																X									
91162	1.00	2112																X									
91163	1.00	2115																X									
91164	1.00	2118																X									
91165	1.00	2121																X									
CCV	1.00	2124																X									
CCB	1.00	2127																X									
91167	1.00	2130																X									
90679	1.00	2133																X									
90680	1.00	2136																X									
90838	1.00	2139																									
90839	1.00	2142																									
CCV	1.00	2145																X									
CCB	1.00	2148																X									

306097

ANALYSIS RUN LOG

Lab Name: ENVIROTECH_RESEARCH_INC._ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:7096__

Instrument ID Number: LEEMAN PS200_ Method: CV

Start Date: 10/28/98 End Date: 10/28/98

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
STD1	1.00	1009																X									
STD2	1.00	1012																X									
STD3	1.00	1015																X									
STD4	1.00	1018																X									
STD5	1.00	1021																X									
STD6	1.00	1024																X									
ICV/ACCV	1.00	1027																X									
ICB/CCB	1.00	1030																X									
ZZZZZZ	1.00	1033																									
90838	5.00	1036																X									
90839	1.00	1039																X									
CCV	1.00	1042																X									
CCB	1.00	1045																X									

306098

File : 7096T1.WSL

File Record	Laboratory Sample Name	Customer/EPA Sample Name	Type	Matrix	Instrument Dil.	Date	Time	Flags
1	STD1-BLANK		3		1.0	10/27/98	19:46:00	
2	STD2		3		1.0	10/27/98	19:51:00	
3	STD3		3		1.0	10/27/98	19:56:00	
4	STD4		3		1.0	10/27/98	20:02:00	
5	HSA		0		1.0	10/27/98	20:09:00	
6	ICV/CCV1		0		1.0	10/27/98	20:14:00	
7	ICB/CCB1		0		1.0	10/27/98	20:20:00	
8	ICSA1		0		1.0	10/27/98	20:25:00	
9	ICSAB1		0		1.0	10/27/98	20:30:00	
10	INT-20		0		1.0	10/27/98	20:36:00	
11	MCL		0		1.0	10/27/98	20:41:00	
12	BSW102798		0		1.0	10/27/98	20:46:00	
13	PBW102798		0		1.0	10/27/98	20:52:00	
14	LCSW		0		1.0	10/27/98	20:57:00	
15	91152D		0		1.0	10/27/98	21:02:00	
16	91152		0		1.0	10/27/98	21:08:00	
17	91152L		0		1.0	10/27/98	21:13:00	
18	CCV2		0		1.0	10/27/98	21:18:00	
19	CCB2		0		1.0	10/27/98	21:24:00	
20	91152MS		0		1.0	10/27/98	21:29:00	
21	91152MSD		0		1.0	10/27/98	21:34:00	
22	91152A		0		1.0	10/27/98	21:40:00	
23	92298		0		1.0	10/27/98	21:45:00	
24	91153		0		1.0	10/27/98	21:51:00	
25	91154		0		1.0	10/27/98	21:56:00	
26	91155		0		1.0	10/27/98	22:01:00	
27	91156		0		1.0	10/27/98	22:07:00	
28	91157		0		1.0	10/27/98	22:12:00	
29	91158		0		1.0	10/27/98	22:17:00	
30	CCV3		0		1.0	10/27/98	22:23:00	
31	CCB3		0		1.0	10/27/98	22:28:00	
32	91159		0		1.0	10/27/98	22:33:00	
33	91160		0		1.0	10/27/98	22:39:00	
34	91161		0		1.0	10/27/98	22:44:00	
35	91162		0		1.0	10/27/98	22:49:00	
36	91163		0		1.0	10/27/98	22:55:00	
37	91164		0		1.0	10/27/98	23:00:00	
38	91165		0		1.0	10/27/98	23:06:00	
39	91167		0		1.0	10/27/98	23:11:00	
40	90679		0		1.0	10/27/98	23:16:00	
41	90680		0		1.0	10/27/98	23:22:00	
42	CCV4		0		1.0	10/27/98	23:27:00	
43	CCB4		0		1.0	10/27/98	23:32:00	
44	90838		0		1.0	10/27/98	23:38:00	
45	90839		0		1.0	10/27/98	23:43:00	
46	ICSA2		0		1.0	10/27/98	23:49:00	
47	ICSAB2		0		1.0	10/27/98	23:54:00	
48	CCV5		0		1.0	10/27/98	23:59:00	
49	CCB5		0		1.0	10/28/98	00:05:00	

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Analysis Report Summary Wed 10-28-98 08:46:59 AM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	HSA	Y102798	SW846	10/27/98	20:09		S	CONC
2	ICV/CCV1	Y102798	SW846	10/27/98	20:14		S	CONC
3	ICB/CCB1	Y102798	SW846	10/27/98	20:20		S	CONC
4	ICSA1	Y102798	SW846	10/27/98	20:25		S	CONC
5	ICSAB1	Y102798	SW846	10/27/98	20:30		S	CONC
6	INT-20	Y102798	SW846	10/27/98	20:36		S	CONC
7	MCL	Y102798	SW846	10/27/98	20:41		S	CONC
8	BSW102798	Y102798	SW846	10/27/98	20:46		S	CONC
9	PBW102798	Y102798	SW846	10/27/98	20:52		S	CONC
10	LCSW	Y102798	SW846	10/27/98	20:57		S	CONC
11	91152D	Y102798	SW846	10/27/98	21:02		S	CONC
12	91152	Y102798	SW846	10/27/98	21:08		S	CONC
13	91152L	Y102798	SW846	10/27/98	21:13		S	CONC
14	CCV2	Y102798	SW846	10/27/98	21:18		S	CONC
15	CCB2	Y102798	SW846	10/27/98	21:24		S	CONC
16	91152MS	Y102798	SW846	10/27/98	21:29		S	CONC
17	91152MSD	Y102798	SW846	10/27/98	21:34		S	CONC
18	91152A	Y102798	SW846	10/27/98	21:40		S	CONC
19	92298	Y102798	SW846	10/27/98	21:45		S	CONC
20	91153	Y102798	SW846	10/27/98	21:51		S	CONC
21	91154	Y102798	SW846	10/27/98	21:56		S	CONC
22	91155	Y102798	SW846	10/27/98	22:01		S	CONC
23	91156	Y102798	SW846	10/27/98	22:07		S	CONC
24	91157	Y102798	SW846	10/27/98	22:12		S	CONC
25	91158	Y102798	SW846	10/27/98	22:17		S	CONC
26	CCV3	Y102798	SW846	10/27/98	22:23		S	CONC
27	CCB3	Y102798	SW846	10/27/98	22:28		S	CONC
28	91159	Y102798	SW846	10/27/98	22:33		S	CONC
29	91160	Y102798	SW846	10/27/98	22:39		S	CONC
30	91161	Y102798	SW846	10/27/98	22:44		S	CONC
31	91162	Y102798	SW846	10/27/98	22:49		S	CONC
32	91163	Y102798	SW846	10/27/98	22:55		S	CONC
33	91164	Y102798	SW846	10/27/98	23:00		S	CONC
34	91165	Y102798	SW846	10/27/98	23:06		S	CONC
35	91167	Y102798	SW846	10/27/98	23:11		S	CONC
36	90679	Y102798	SW846	10/27/98	23:16		S	CONC
37	90680	Y102798	SW846	10/27/98	23:22		S	CONC
38	CCV4	Y102798	SW846	10/27/98	23:27		S	CONC
39	CCB4	Y102798	SW846	10/27/98	23:32		S	CONC
40	90838	Y102798	SW846	10/27/98	23:38		S	CONC
41	90839	Y102798	SW846	10/27/98	23:43		S	CONC
42	ICSA2	Y102798	SW846	10/27/98	23:49		S	CONC
43	ICSAB2	Y102798	SW846	10/27/98	23:54		S	CONC
44	CCV5	Y102798	SW846	10/27/98	23:59		S	CONC
45	CCB5	Y102798	SW846	10/28/98	00:05		S	CONC

GK 10/28/98

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#	Sample Name	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179
1	HSA	491100.	9783.	19560.	1952.	4797.	241900.
2	ICV/CCV1	246200.	4901.	9851.	964.2	2455.	123900.
3	ICB/CCB1	-4.494	-1.405	1.028	.0867	.2306	-29.30
4	ICSA1	494600.	-1.006	4.592	-.0704	-.3009	460900.
5	ICSAB1	505400.	101.4	107.3	100.0	96.08	471500.
6	INT-20	60.31	.1183	-2.642	19.47	.4957	66.10
7	MCL	176.5	22.78	51.36	3.979	5.015	5062.
8	BSW102798	1940.	1846.	1966.	50.30	49.29	19640.
9	PBW102798	-26.70	.7038	-.3780	-.0750	-.0483	-34.30
10	LCSW	1016.	988.7	998.6	988.7	1016.	987.9
11	91152D	334.9	.8703	28.63	.1802	.1631	4974.
12	91152	343.3	-.1866	28.05	.0794	-.1143	4923.
13	91152L	30.63	-.6090	5.097	-.0240	-.1146	965.1
14	CCV2	249800.	4893.	10140.	973.8	2458.	125600.
15	CCB2	-19.40	-1.912	.2507	.0034	.0343	-40.51
16	91152MS	2307.	1872.	1997.	50.94	49.61	24730.
17	91152MSD	2329.	1882.	2021.	50.95	49.48	24850.
18	91152A	2263.	1645.	1958.	49.41	48.01	24080.
19	92298	-25.16	-.7413	10.20	-.0583	-.1925	13790.
20	91153	10020.	12.64	60.58	.4383	7.167	7692.
21	91154	53.71	-.9083	5.444	-.0738	-.2016	461.1
22	91155	756.0	-.3401	21.02	.0032	.6957	3172.
23	91156	460.9	-.7574	14.63	-.0110	.1603	2464.
24	91157	3460.	3.772	16.76	.0310	.4054	6132.
25	91158	129.6	-.6346	28.40	-.0643	.7342	14400.
26	CCV3	246800.	4931.	9977.	974.4	2471.	125200.
27	CCB3	-31.16	1.296	.2836	.0226	.1996	-38.36
28	91159	2088.	.1953	34.66	.0402	2.336	17220.
29	91160	16.40	-1.438	18.49	-.0397	.0361	430.1
30	91161	8546.	3.598	47.69	.1910	2.765	18200.
31	91162	2671.	.7665	12.02	-.0498	.0209	21610.
32	91163	167.0	-2.202	9.136	-.0892	-.2611	9204.
33	91164	6888.	3.332	131.4	.2148	.2582	166700.
34	91165	-32.06	-1.836	-.5022	-.0753	-.2076	-8.002
35	91167	843.2	1.978	9.657	-.0623	-.2883	16770.
36	90679	133.5	-1.215	47.91	-.0536	-.2901	1240.
37	90680	-37.67	-.7869	-.5190	-.0614	-.3494	-27.81
38	CCV4	248000.	4880.	10070.	971.0	2450.	125100.
39	CCB4	-14.76	1.269	.3170	-.0022	.0147	-41.17
40	90838	10220.	5.999	606.2	4.537	17.55	94150.
41	90839	30140.	10.56	209.2	1.427	1.015	159000.
42	ICSA2	486600.	-1.954	4.019	-.1026	-.4486	458600.
43	ICSAB2	497600.	98.92	106.2	98.92	94.37	466700.
44	CCV5	249500.	4927.	10100.	976.9	2466.	125100.
45	CCB5	17.59	-.5293	.6970	.0522	.2125	-2.305

#	Sample Name	Cr2677	Co2286	Cu3247	Fe2714	Mg2790	Mn2576
1	HSA	9740.	4809.	24880.	194300.	247300.	9723.
2	ICV/CCV1	5058.	2463.	12280.	95850.	123200.	5010.
3	ICB/CCB1	.7118	-.2355	1.554	-7.834	-24.89	.4593
4	ICSA1	.2815	.4660	-.6114	189600.	494000.	1.421

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#	Sample Name	Cr2677	Co2286	Cu3247	Fe2714	Mg2790	Mn2576
5	ICSAB1	99.42	96.70	98.69	191000.	516300.	100.5
6	INT-20	20120.	20440.	-8.179	-145.3	10.54	19400.
7	MCL	23.90	56.17	50.36	193.3	4932.	22.37
8	BSW102798	201.6	499.1	245.6	938.4	19330.	492.9
9	PBW102798	.6409	-.1943	.3582	-.9198	-39.78	.4060
10	LCSW	1008.	1032.	992.8	1037.	952.1	1003.
11	91152D	1.655	1.224	1.608	26.69	1345.	26.35
12	91152	1.148	.7751	.4282	29.01	1326.	25.86
13	91152L	-.1534	-.2988	.2328	-.1079	227.0	4.748
14	CCV2	5098.	2493.	12320.	100800.	125300.	5036.
15	CCB2	.4867	-.2480	1.395	-14.78	-36.52	.0193
16	91152MS	203.2	507.5	247.0	987.9	20980.	525.0
17	91152MSD	202.7	509.3	245.9	1010.	21110.	524.1
18	91152A	197.5	492.5	241.4	956.0	20290.	509.5
19	92298	1.722	-.2371	37.28	7435.	5744.	87.10
20	91153	42.96	.8722	19.79	25910.	1788.	63.78
21	91154	.9210	-.7461	1.078	179.5	210.3	5.718
22	91155	1.711	.3087	1.503	776.1	1329.	47.95
23	91156	3.713	-.2996	3.284	1001.	644.5	15.68
24	91157	18.27	.3327	8.091	8199.	950.1	61.93
25	91158	1.046	.0761	.4574	59.48	2421.	25.06
26	CCV3	5113.	2488.	12330.	97590.	124700.	5057.
27	CCB3	.3646	.2216	1.395	.1242	-33.08	.0466
28	91159	5.634	-.0922	5.433	2619.	2420.	7.248
29	91160	1.056	-.5595	2.256	210.6	163.3	8.331
30	91161	19.07	.4380	8.380	11670.	3854.	231.8
31	91162	2.944	-.0082	2.926	1471.	2833.	7.062
32	91163	2.200	-.6750	2.411	3744.	1229.	7.667
33	91164	18.29	2.601	5.406	3647.	4565.	161.3
34	91165	1.074	-.6441	.1239	-5.052	-33.51	.1456
35	91167	2.100	-.0886	1.927	7208.	1849.	44.62
36	90679	1.733	-.3782	.5415	305.2	176.7	19.82
37	90680	.9520	-.7255	.3166	9.151	-44.73	.0868
38	CCV4	5085.	2486.	12280.	99620.	124500.	5034.
39	CCB4	.4737	-.3445	.8368	-12.75	-34.48	-.0871
40	90838	364.7	25.34	230.7	152700.	41510.	794.5
41	90839	154.7	11.47	263.0	37490.	11660.	695.6
42	ICSA2	.3983	.1068	-1.462	189700.	489300.	1.517
43	ICSAB2	97.78	95.48	96.91	190800.	510200.	99.33
44	CCV5	5120.	2493.	12430.	98340.	124000.	5074.
45	CCB5	.3426	-.1745	1.104	10.06	1.734	.1488

#	Sample Name	Ni2316	K_7664	Ag3280	Na3302	Tl1908	V_2924
1	HSA	4795.	100600.	2504.	249400.	9633.	4907.
2	ICV/CCV1	2439.	48980.	1242.	126900.	4855.	2497.
3	ICB/CCB1	.3542	236.0	-.1263	-14.28	1.808	.6915
4	ICSA1	1.474	174.2	.3612	648.6	-4.591	2.920
5	ICSAB1	96.22	10120.	104.4	11830.	91.08	103.6
6	INT-20	20360.	289.0	-5.704	-6031.	-47.18	20030.
7	MCL	54.66	9775.	20.13	12100.	15.91	54.31
8	BSW102798	498.5	18720.	48.97	23190.	1978.	503.0
9	PBW102798	1.233	296.1	.1003	-562.6	4.348	1.069

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#	Sample Name	Ni2316	K_7664	Ag3280	Na3302	Tl1908	V_2924
10	LCSW	1027.	9119.	963.8	L1480.	1004.	1004.
11	91152D	1.481	1166.	.2353	14550.	1.379	1.068
12	91152	1.568	1091.	-.6335	14720.	-2.354	.4675
13	91152L	.2764	452.4	-.0046	3277.	-1.181	.2611
14	CCV2	2464.	48850.	1251.	128700.	4910.	2502.
15	CCB2	.4517	256.0	.3594	-316.3	-.9437	1.283
16	91152MS	504.7	19670.	49.15	36200.	1994.	504.4
17	91152MSD	505.2	19670.	48.68	36820.	2007.	501.9
18	91152A	488.9	19220.	47.26	35810.	1943.	491.3
19	92298	2.729	6292.	325.1	38200.	-1.154	3.064
20	91153	4.126	1407.	-.1093	3120.	1.303	102.4
21	91154	1.503	500.9	.1012	17180.	-2.291	.5546
22	91155	2.088	679.1	-.0535	6565.	2.949	3.511
23	91156	2.059	604.2	.1439	5103.	.6301	4.481
24	91157	2.908	833.0	.0302	14170.	-2.112	22.53
25	91158	.9381	1811.	-.3012	39200.	-1.125	1.271
26	CCV3	2465.	49240.	1247.	127400.	4906.	2517.
27	CCB3	.4199	236.9	.1981	-80.07	-1.033	.3746
28	91159	1.415	2516.	.0469	36290.	-.3784	12.21
29	91160	1.139	1488.	-.0565	2714.	-1.864	.5207
30	91161	6.060	3695.	.3908	105500.	-.0963	65.51
31	91162	8.345	3348.	-.5532	59770.	-2.556	2.477
32	91163	1.573	1907.	-.0073	11390.	-.6094	1.164
33	91164	7.657	2928.	.0606	8639.	.1596	13.65
34	91165	.6671	378.3	.1338	-411.0	-.1409	.2580
35	91167	10.09	1534.	-.6496	15280.	-2.530	5.831
36	90679	1.768	1814.	-.1314	2784.	-1.227	.7153
37	90680	1.131	281.1	-.5820	-245.8	1.651	.1209
38	CCV4	2454.	48920.	1246.	128300.	4890.	2501.
39	CCB4	.0937	328.7	.4437	355.5	-.4450	.5798
40	90838	122.8	H109100.	.1691	H260800.	-1.854	21.21
41	90839	85.23	11440.	1.036	H336400.	-4.853	64.17
42	ICSA2	2.018	152.4	-.2275	607.8	-9.192	3.490
43	ICSAB2	95.08	9876.	102.6	11800.	87.61	102.2
44	CCV5	2463.	49410.	1259.	128200.	4904.	2528.
45	CCB5	.3708	261.0	-.2623	-79.38	-1.470	1.030

#	Sample Name	Zn2138	Mo2020	P_1782	Sr4215	Sn1899	Ti3349
1	HSA	4850.	4889.	4798.	9683.	1930.	19780.
2	ICV/CCV1	2494.	2499.	2461.	4924.	1001.	9825.
3	ICB/CCB1	.3317	1.760	6.990	.3923	1.007	-.0626
4	ICSA1	-4.298	-.1755	7.434	.2597	.5854	4.386
5	ICSAB1	100.7	102.5	L6.099	105.7	100.1	104.7
6	INT-20	17.72	19630.	.0966	18850.	19840.	19910.
7	MCL	51.12	60.78	201.5	105.2	114.4	42.98
8	BSW102798	502.5	515.3	L7.223	511.0	L357.4	481.0
9	PBW102798	2.856	1.221	6.104	.0715	1.345	.6978
10	LCSW	1012.	1034.	L2.962	L-.2272	L4.160	1007.
11	91152D	11.29	.8010	15.45	29.62	3.071	2.465
12	91152	7.668	.1360	14.40	29.40	3.630	1.800
13	91152L	3.652	-.4800	9.628	5.593	.3810	.0623
14	CCV2	2497.	2509.	2463.	5029.	1003.	10050.

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#	Sample Name	Zn2138	Mo2020	P_1782	Sr4215	Sn1899	Ti3349
15	CCB2	.0390	1.428	4.407	.0201	.5196	.2126
16	91152MS	514.8	513.4	20.59	541.6	352.8	487.1
17	91152MSD	518.0	512.9	14.70	545.1	365.9	490.7
18	91152A	496.4	495.7	12.32	530.7	120.5	440.9
19	92298	18.26	1.719	418.7	105.9	1.762	-1.082
20	91153	35.11	14.19	322.5	25.50	3.538	270.5
21	91154	5.599	-.2387	9.313	6.496	1.306	.3898
22	91155	177.1	.1267	15.59	13.54	1.176	8.248
23	91156	17.85	.0636	21.18	10.37	2.502	10.31
24	91157	48.73	2.908	107.7	60.74	2.984	71.52
25	91158	9.706	.0826	8.766	95.51	1.755	1.967
26	CCV3	2509.	2514.	2569.	4986.	1008.	9957.
27	CCB3	.0064	1.124	5.672	.0340	1.219	-.4977
28	91159	7.961	1.523	70.65	167.9	3.049	53.35
29	91160	9.935	-.0867	13.86	26.51	2.675	.3729
30	91161	469.7	4.027	142.2	167.9	.2305	181.9
31	91162	37.69	.1253	69.50	234.6	2.889	37.69
32	91163	9.433	-.0857	28.89	82.47	1.939	.9985
33	91164	32.55	4.615	246.1	1713.	1.689	200.8
34	91165	3.711	-.9536	5.674	-.1367	2.587	-.6981
35	91167	130.9	.9466	32.37	117.9	.9780	20.28
36	90679	16.92	-.8788	8.961	315.0	3.016	1.168
37	90680	4.845	-.3168	6.740	-.3175	1.611	-.6376
38	CCV4	2490.	2500.	2503.	5010.	996.8	10010.
39	CCB4	.1180	.6454	3.895	-.0005	-.1544	-.8854
40	90838	H5786.	157.8	1917.	740.1	9.514	9.113
41	90839	684.0	37.86	H49800.	924.4	10.82	927.6
42	ICSAZ	-4.014	-1.434	H22.65	.5304	1.258	3.821
43	ICSABZ	96.90	99.68	L10.61	104.9	97.73	104.2
44	CCV5	2515.	2525.	2570.	5041.	1003.	10050.
45	CCB5	.2372	1.551	5.758	.2294	-.2160	.3796

#	Sample Name	Pb2203	Se1960	Sb2068	B_2496
1	HSA	19230.	9711.	1970.	1968.
2	ICV/CCV1	9932.	4836.	1002.	983.6
3	ICB/CCB1	.4252	-1.948	-1.634	3.079
4	ICSA1	1.051	-4.143	.3626	.0168
5	ICSAB1	98.40	96.59	95.52	104.7
6	INT-20	6.814	1.367	-3.889	4.728
7	MCL	9.039	3.946	19.01	100.2
8	BSW102798	495.2	1974.	469.0	551.8
9	PBW102798	-.8992	-2.604	-1.781	3.819
10	LCSW	1018.	1003.	964.4	1042.
11	91152D	-.2023	-.6600	.0613	29.81
12	91152	-1.645	-3.749	.5596	23.98
13	91152L	-.7709	-4.523	-2.432	6.016
14	CCV2	9965.	4871.	1006.	991.5
15	CCB2	-1.362	-.5252	-1.960	.3645
16	91152MS	498.6	1974.	475.9	527.9
17	91152MSD	497.7	1991.	462.4	526.5
18	91152A	481.7	1893.	444.4	519.6
19	92298	1.424	-.4215	-.3899	21.50

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#	Sample Name	Pb2203	Se1960	Sb2068	B_2496		
20	91153	12.38	9.125	.0221	16.25		
21	91154	-1.335	1.093	.1423	36.02		
22	91155	-.1443	.8571	1.001	26.52		
23	91156	-.5157	-4.507	.3418	38.99		
24	91157	9.136	.7707	1.041	71.67		
25	91158	.0818	-.1274	-1.572	29.91		
26	CCV3	9977.	4856.	1005.	988.2		
27	CCB3	-.9534	-3.857	.0504	1.225		
28	91159	1.384	-4.344	-2.274	66.02		
29	91160	-.9219	-1.747	-1.769	17.27		
30	91161	7.415	-1.237	-1.067	67.53		
31	91162	.0741	2.467	-.6722	68.21		
32	91163	-.9286	-1.878	-3.295	73.41		
33	91164	1.862	1.190	-.3355	32.51		
34	91165	-1.471	-2.451	-2.152	4.862		
35	91167	1.246	-3.222	-.8083	30.70		
36	90679	-.9031	-1.424	-1.547	9.971		
37	90680	-.4684	-.2124	1.585	5.059		
38	CCV4	9923.	4817.	997.3	983.6		
39	CCB4	-.8874	-1.196	-.3234	.3347		
40	90838	303.9	-3.389	1.492	H22710.		
41	90839	92.48	-2.313	1.092	105.4		
42	ICSA2	.9421	-3.452	-2.115	H21.06		
43	ICSAB2	95.18	92.01	98.31	115.1		
44	CCV5	9966.	4858.	1008.	996.3		
45	CCB5	-.5165	-.4271	-2.118	6.021		

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#2	.2629	.2670	1.541	.2096	H7.028	1.370	-1.253
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass	NOCHECK
High	5.000	5.000	5.000	3.000	5.000	10.00	
Low	-3.000	-3.000	-5.000	-3.000	-5.000	-10.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	8_2496	
Units						ppb	
Avge	.4853	2.201	-.9667	5.480	7.769	1.018	
SDev	.6210	1.340	3.6009	4.504	2.221	.657	
%RSD	127.9	60.88	372.5	82.20	28.59	64.56	
#1	.0463	3.148	-3.513	2.295	9.339	1.482	
#2	.9244	1.253	1.580	8.665	6.198	.5530	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						15.00	
Low						-9.900	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	955	--	--	--	--	--	--
SDev	9.457553	--	--	--	--	--	--
%RSD	.9900994	--	--	--	--	--	--
#1	949	--	--	--	--	--	--
#2	962	--	--	--	--	--	--

Be 10/28/98

Method: SW846 Standard: STD1-Blank

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Avge	.3902	.0132	.0062	-.0326	.0162	.4762	.0243
SDev	.0020	.0617	.0014	.0008	.0046	.0018	.0110
%RSD	.5224	468.3	22.42	2.308	28.50	.3703	44.24
#1	.3916	.0568	.0072	-.0320	.0129	.4774	.0171
#2	.3888	-.0305	.0053	-.0331	.0194	.4749	.0326
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Avge	.0120	.0651	.0024	.1151	.0062	.0165	9.581
SDev	.0021	.0030	.0302	.0009	.0014	.0234	.114
%RSD	17.29	4.570	1243.	.7428	22.42	141.4	1.192
#1	.0134	.0630	.0238	.1157	.0072	.0000	9.501
#2	.0105	.0672	-.0189	.1145	.0053	.0331	9.662
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Avge	-.1719	-.0030	-.0168	-.0003	.1024	.0067	.3281
SDev	.0042	.0147	.0698	.0003	.0006	.0073	.0249
%RSD	2.462	483.6	415.9	101.6	.6223	108.3	7.577
#1	-.1690	-.0134	-.0661	-.0001	.1028	.0119	.3105
#2	-.1749	.0074	.0326	-.0005	.1019	.0016	.3457

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Elem	Sr4215	Sn1899	Ti3349	2203/1	2203/2	2068/1	2068/2
Avge	.0315	.0160	-.4495	.3142	.0270	.0241	-.0011
SDev	.0000	.0483	.1563	.1024	.0233	.0609	.0044
%RSD	.0082	301.3	34.78	32.60	86.29	252.3	415.1
#1	.0315	.0502	-.3389	.2418	.0434	.0672	.0021
#2	.0315	-.0181	-.5600	.3867	.0105	-.0189	-.0042

Elem	1960/1	1960/2	B_2496
Avge	-.0672	.0890	.0187
SDev	.0877	.0674	.0042
%RSD	130.5	75.71	22.42
#1	-.0052	.0413	.0217
#2	-.1292	.1366	.0158

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	960	--	--	--	--	--	--
SDev	11.29606	--	--	--	--	--	--
%RSD	1.176994	--	--	--	--	--	--
#1	968	--	--	--	--	--	--
#2	952	--	--	--	--	--	--

Method: SW846 Standard: ST04

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Avge	89.79	14.33	40.45	11.03	88.56	113.9	27.85
SDev	.36	.05	.16	.03	.17	.2	.03
%RSD	.3964	.3458	.4018	.2410	.1966	.2154	.1186
#1	90.04	14.37	40.56	11.04	88.69	114.1	27.87
#2	89.54	14.30	40.33	11.01	88.44	113.7	27.82

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	Ag3280
Avge	18.53	28.86	20.29	63.13	22.68	61.52	3.844
SDev	.05	.07	.16	.19	.03	.24	.024
%RSD	.2751	.2569	.7807	.3035	.1217	.3914	.6194
#1	18.57	28.91	20.41	63.26	22.70	61.69	3.861
#2	18.50	28.81	20.18	62.99	22.66	61.35	3.827

Elem	Tl1908	V_2924	Zn2138	Mo2020	P_1782	Sr4215	Sn1899
Avge	13.34	4.220	15.28	18.89	6.774	105.9	7.210
SDev	.11	.013	.03	.02	.108	.3	.048
%RSD	.8446	.3073	.1986	.1157	1.595	.2997	.6712
#1	13.26	4.229	15.30	18.90	6.698	106.1	7.245
#2	13.42	4.211	15.26	18.87	6.851	105.7	7.176

Elem	Ti3349	2203/1	2203/2	2068/1	2068/2	1960/1	1960/2
Avge	154.9	310.6	76.87	2.785	.7213	29.63	22.41
SDev	.6	1.7	.58	.065	.0121	.18	.07

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%RSD	.4190	.5428	.7523	2.330	1.672	.6194	.3074
#1	155.4	311.8	76.46	2.739	.7298	29.76	22.46
#2	154.5	309.4	77.28	2.831	.7128	29.50	22.36

Elem	B_2496
Avge	2.669
SDev	.012
%RSD	.4518
#1	2.661
#2	2.678

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	946	--	--	--	--	--	--
SDev	2.085974	--	--	--	--	--	--
%RSD	.2206154	--	--	--	--	--	--
#1	944	--	--	--	--	--	--
#2	947	--	--	--	--	--	--

Method: SW846 Standard: STD3

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Avge	442.3	70.90	196.4	54.06	429.4	553.2	136.4
SDev	1.5	.18	.5	.11	1.2	1.8	.4
%RSD	.3296	.2509	.2759	.2102	.2717	.3214	.2819
#1	441.3	70.78	196.0	53.98	428.6	551.9	136.1
#2	443.4	71.03	196.8	54.14	430.2	554.4	136.7

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	Ag3280
Avge	89.43	143.0	96.90	314.9	111.2	295.1	20.00
SDev	.20	.4	.19	.9	.3	.6	.07
%RSD	.2254	.2518	.1948	.2793	.2955	.2000	.3274
#1	89.29	142.8	96.77	314.3	111.0	294.6	19.95
#2	89.58	143.3	97.04	315.5	111.5	295.5	20.04

Elem	Tl1908	V_2924	Zn2138	Mo2020	P_1782	Sr4215	Sn1899
Avge	64.78	20.94	74.43	93.04	32.21	512.7	35.13
SDev	.19	.06	.18	.23	.37	2.1	.02
%RSD	.2915	.3003	.2361	.2521	1.149	.4000	.0518
#1	64.64	20.90	74.30	92.87	31.94	511.2	35.12
#2	64.91	20.98	74.55	93.20	32.47	514.1	35.14

Elem	Ti3349	2203/1	2203/2	2068/1	2068/2	1960/1	1960/2
Avge	765.6	1499.	376.8	13.99	3.555	144.3	110.9
SDev	2.2	4.	.3	.00	.027	.3	.2
%RSD	:2883	.2981	.0724	.0092	.7721	.1744	.1793
#1	764.0	1496.	376.6	13.99	3.536	144.5	111.1

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#2	767.1	1502.	377.0	13.99	3.574	144.2	110.8

Elem	B_2496
Avge	13.15
SDev	.03
%RSD	.2510
#1	13.12
#2	13.17

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	923	--	--	--	--	--	--
SDev	2.156667	--	--	--	--	--	--
%RSD	.2335698	--	--	--	--	--	--
#1	925	--	--	--	--	--	--
#2	922	--	--	--	--	--	--

Method: SW846 Standard: STD2

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Avge	864.2	134.5	387.5	103.6	801.7	1054.	260.4
SDev	6.7	1.2	2.5	.9	7.0	8.	2.1
%RSD	.7791	.9090	.6580	.8487	.8714	.7578	.8128
#1	869.0	135.4	389.3	104.2	806.7	1060.	261.9
#2	859.5	133.6	385.7	103.0	796.8	1048.	258.9

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Avge	169.4	281.3	192.1	609.3	212.2	556.6	206.0
SDev	1.4	2.3	1.3	5.1	1.7	4.9	1.2
%RSD	.7992	.8326	.6915	.8320	.8161	.8765	.6005
#1	170.4	283.0	193.0	612.9	213.4	560.0	206.9
#2	168.5	279.7	191.2	605.8	211.0	553.1	205.2

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Avge	39.78	24.66	123.1	40.19	140.9	178.1	61.73
SDev	.30	.20	1.0	.33	1.2	1.1	2.20
%RSD	.7506	.8132	.8121	.8271	.8472	.6139	3.559
#1	39.99	24.80	123.8	40.42	141.8	178.9	63.28
#2	39.57	24.52	122.4	39.95	140.1	177.4	60.17

Elem	Sr4215	Sn1899	Ti3349	2203/1	2203/2	2068/1	2068/2
Avge	993.5	65.78	1517.	2839.	698.8	26.67	6.879
SDev	6.7	.45	11.	28.	6.9	.18	.058
%RSD	.6741	.6828	.7520	.9797	.9900	.6575	.8476
#1	998.2	66.10	1525.	2859.	703.7	26.80	6.920
#2	988.7	65.46	1509.	2819.	693.9	26.55	6.838

Elem	1960/1	1960/2	B_2496

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Avge	274.5	207.6	25.48
SDev	2.7	1.8	.22
%RSD	.9737	.8492	.8690
#1	276.4	208.8	25.64
#2	272.6	206.3	25.32

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	903	--	--	--	--	--	--
SDev	6.629126	--	--	--	--	--	--
%RSD	.7338482	--	--	--	--	--	--
#1	899	--	--	--	--	--	--
#2	908	--	--	--	--	--	--

Method: SW846 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Al3082	308.215	Multiple	Standards	568.011	-228.640	10/27/98 08:02:16
As1890	189.042	Multiple	Standards	71.5330	-1.17314	10/27/98 08:02:16
Ba4394	439.409	Multiple	Standards	50.6559	-.736850	10/27/98 08:02:16
Be3130	313.042	Multiple	Standards	18.5200	.550228	10/27/98 08:02:16
Cd2265	226.502	Multiple	Standards	5.90438	-.296253	10/27/98 08:02:16
Ca3179	317.933	Multiple	Standards	227.793	-116.074	10/27/98 08:02:16
Cr2677	267.716	Multiple	Standards	36.9884	-1.18384	10/27/98 08:02:16
Co2286	228.616	Multiple	Standards	28.2916	-.528523	10/27/98 08:02:16
Cu3247	324.753	Multiple	Standards	87.7308	-5.94910	10/27/98 08:02:16
Fe2714	271.441	Multiple	Standards	1019.72	-8.30434	10/27/98 08:02:16
Mg2790	279.078	Multiple	Standards	401.327	-49.0435	10/27/98 08:02:16
Mn2576	257.610	Multiple	Standards	45.3936	-.547757	10/27/98 08:02:16
Ni2316	231.604	Multiple	Standards	8.50624	-.354874	10/27/98 08:02:16
K_7664	766.491	STD2	STD1-Blank	.717931	-4.27879	10/27/98 08:02:16
Ag3280	328.068	Multiple	Standards	62.2969	10.7100	10/27/98 08:02:16
Na3302	330.232	STD2	STD1-Blank	.854329	.025597	10/27/98 08:02:16
Tl1908	190.864	Multiple	Standards	78.4269	.971526	10/27/98 08:02:16
V_2924	292.402	Multiple	Standards	120.489	-.056743	10/27/98 08:02:16
Zn2138	213.856	Multiple	Standards	34.3842	-3.67020	10/27/98 08:02:16
Mo2020	202.030	Multiple	Standards	27.1288	-.295726	10/27/98 08:02:16
P_1782	178.287	Multiple	Standards	79.2735	-26.1032	10/27/98 08:02:16
Sr4215	421.552	Multiple	Standards	9.76902	-.595192	10/27/98 08:02:16
Sn1899	189.989	Multiple	Standards	28.3712	-.524513	10/27/98 08:02:16
Ti3349	334.941	Multiple	Standards	13.0491	5.63922	10/27/98 08:02:16
Pb2203	220.353	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Se1960	196.026	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Sb2068	206.838	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
2203/1	220.351	Multiple	Standards	6.77364	-2.88747	10/27/98 08:02:16
2203/2	220.352	Multiple	Standards	26.9032	-1.43932	10/27/98 08:02:16
2068/1	206.831	Multiple	Standards	76.2439	-1.85808	10/27/98 08:02:16
2068/2	206.832	Multiple	Standards	285.438	.264939	10/27/98 08:02:16
1960/1	196.021	Multiple	Standards	34.8605	2.01700	10/27/98 08:02:16
1960/2	196.022	Multiple	Standards	45.6536	-4.31651	10/27/98 08:02:16

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Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
B_2496	249.678	Multiple	Standards	76.9738	-1.47292	10/27/98 08:02:16

Method: SW846

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al3082	308.215	STD1-Blank	.000000	-7.00280	7.00280
		STD4	50000.0	50772.0	-771.996
		STD3	250000.	251030.	-1029.86
		STD2	500000.	490674.	9326.28

CorCoef: 0.99993

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As1890	189.042	STD1-Blank	.000000	-.230192	.230192
		STD4	1000.00	1024.10	-24.0975
		STD3	5000.00	5070.72	-70.7236
		STD2	10000.0	9620.07	379.932

CorCoef: 0.99960

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba4394	439.409	STD1-Blank	.000000	-.420581	.420581
		STD4	2000.00	2048.06	-48.0640
		STD3	10000.0	9947.78	52.2217
		STD2	20000.0	19628.5	371.545

CorCoef: 0.99997

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be3130	313.042	STD1-Blank	.000000	-.052882	.052882
		STD4	200.000	204.735	-4.73506
		STD3	1000.00	1001.68	-1.68066
		STD2	2000.00	1919.50	80.5018

CorCoef: 0.99974

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd2265	226.502	STD1-Blank	.000000	-.200735	.200735
		STD4	500.000	522.619	-22.6193
		STD3	2500.00	2535.01	-35.0093
		STD2	5000.00	4733.31	266.690

CorCoef: 0.99932

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca3179	317.933	STD1-Blank	.000000	-7.60738	7.60738
		STD4	25000.0	25825.3	-825.340
		STD3	125000.	125897.	-896.609
		STD2	250000.	239953.	10046.6

CorCoef: 0.99967

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr2677	267.716	STD1-Blank	.000000	-.266121	.266121
		STD4	1000.00	1028.81	-28.8127
		STD3	5000.00	5044.03	-44.0337
		STD2	10000.0	9629.81	370.194

CorCoef: 0.99970

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co2286	228.616	STD1-Blank	.000000	-.189866	.189866

306111

	STD4	500.000	523.751	-23.7509
	STD3	2500.00	2529.69	-29.6868
	STD2	5000.00	4792.61	207.393

CorCoef: 0.99958

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu3247	324.753	STD1-Blank	.000000	-.234368	.234368
		STD4	2500.00	2525.80	-25.7957
		STD3	12500.0	12543.4	-43.3809
		STD2	25000.0	24674.7	325.307

CorCoef: 0.99996

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe2714	271.441	STD1-Blank	.000000	-5.82918	5.82918
		STD4	20000.0	20686.7	-686.711
		STD3	100000.	98805.3	1194.73
		STD2	200000.	195870.	4130.28

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg2790	279.078	STD1-Blank	.000000	-2.83845	2.83845
		STD4	25000.0	25286.0	-285.986
		STD3	125000.	126323.	-1322.85
		STD2	250000.	244494.	5505.58

CorCoef: 0.99985

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn2576	257.610	STD1-Blank	.000000	-.264344	.264344
		STD4	1000.00	1028.91	-28.9077
		STD3	5000.00	5048.10	-48.0957
		STD2	10000.0	9631.07	368.933

CorCoef: 0.99969

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni2316	231.604	STD1-Blank	.000000	-.214109	.214109
		STD4	500.000	522.916	-22.9155
		STD3	2500.00	2509.47	-9.47437
		STD2	5000.00	4733.97	266.029

CorCoef: 0.99951

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
K_7664	766.491	STD1-Blank	2.60000	9.58142	-6.98142
		STD2	143.640	206.034	-62.3948

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag3280	328.068	STD1-Blank	.000000	-.001779	.001779
		STD4	250.000	250.191	-.191025
		STD3	1250.00	1256.40	-6.40027
		STD2	2500.00	2488.95	11.0508

CorCoef: 0.99999

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Na3302	330.232	STD1-Blank	.023000	-.003039	.026039
		STD2	21.0913	24.6576	-3.56630

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl1908	190.864	STD1-Blank	.000000	-.344592	.344592
		STD4	1000.00	1047.07	-47.0684
		STD3	5000.00	5081.13	-81.1333
		STD2	10000.0	9652.80	347.199

CorCoef: 0.99963

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V_2924	292.402	STD1-Blank	.000000	-.089489	.089489
		STD4	500.000	508.384	-8.38388
		STD3	2500.00	2522.92	-22.9209
		STD2	5000.00	4841.97	158.030

CorCoef: 0.99976

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn2138	213.856	STD1-Blank	.000000	-.150357	.150357
		STD4	500.000	521.799	-21.7986
		STD3	2500.00	2555.47	-55.4697
		STD2	5000.00	4841.85	158.151

CorCoef: 0.99958

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo2020	202.030	STD1-Blank	.000000	-.113155	.113155
		STD4	500.000	512.046	-12.0463
		STD3	2500.00	2523.69	-23.6917
		STD2	5000.00	4832.15	167.845

CorCoef: 0.99973

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
P_1782	178.287	STD1-Blank	.000000	-.093559	.093559
		STD4	500.000	510.908	-10.9078
		STD3	2500.00	2526.93	-26.9341
		STD2	5000.00	4867.05	132.947

CorCoef: 0.99980

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr4215	421.552	STD1-Blank	.000000	-.287282	.287282
		STD4	1000.00	1033.97	-33.9727
		STD3	5000.00	5007.89	-7.89258
		STD2	10000.0	9704.64	295.362

CorCoef: 0.99986

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn1899	189.989	STD1-Blank	.000000	-.069452	.069452
		STD4	200.000	204.045	-4.04547
		STD3	1000.00	996.213	3.78656
		STD2	2000.00	1865.72	134.282

CorCoef: 0.99938

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti3349	334.941	STD1-Blank	.000000	-.226073	.226073
		STD4	2000.00	2027.36	-27.3578
		STD3	10000.0	9995.48	4.52051
		STD2	20000.0	19796.0	204.000

CorCoef: 0.99999

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb2203	220.353	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se1960	196.026	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb2068	206.838	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/1	220.351	STD1-Blank	.000000	-.758993	.758993
		STD4	2000.00	2100.98	-100.981
		STD3	10000.0	10150.9	-150.875
		STD2	20000.0	19228.5	771.531

CorCoef: 0.99958

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/2	220.352	STD1-Blank	.000000	-.714174	.714174
		STD4	2000.00	2066.55	-66.5535
		STD3	10000.0	10135.5	-135.546
		STD2	20000.0	18799.1	1200.88

CorCoef: 0.99917

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2068/1	206.831	STD1-Blank	.000000	-.018490	.018490
		STD4	200.000	210.493	-10.4928
		STD3	1000.00	1065.03	-65.0276
		STD2	2000.00	2031.87	-31.8668

CorCoef: 0.99968

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2068/2	206.832	STD1-Blank	.000000	-.039920	.039920
		STD4	200.000	206.153	-6.15317
		STD3	1000.00	1015.00	-15.0042
		STD2	2000.00	1963.84	36.1630

CorCoef: 0.99985

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/1	196.021	STD1-Blank	.000000	-.325670	.325670
		STD4	1000.00	1035.02	-35.0170
		STD3	5000.00	5033.58	-33.5845
		STD2	10000.0	9571.26	428.737

CorCoef: 0.99964

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/2	196.022	STD1-Blank	.000000	-.255063	.255063
		STD4	1000.00	1018.82	-18.8230
		STD3	5000.00	5059.28	-59.2793
		STD2	10000.0	9471.81	528.188

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CorCoef: 0.99937

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B_2496	249.678	STD1-Blank	.000000	-.031165	.031165
		STD4	200.000	204.001	-4.00116
		STD3	1000.00	1010.52	-10.5226
		STD2	2000.00	1959.79	40.2067

CorCoef: 0.99987

Method: SW846 Sample Name: HSA Operator:
Run Time: 10/27/98 20:09:19
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	491100.	9783.	19560.	1952.	4797.	241900.	9740.
SDev	5606.	117.	206.	22.	57.	2814.	122.
%RSD	1.141	1.196	1.054	1.132	1.194	1.163	1.253
#1	487200.	9701.	19410.	1936.	4757.	239900.	9654.
#2	495100.	9866.	19700.	1968.	4838.	243900.	9827.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	527200.	10540.	21080.	2108.	5272.	263600.	10540.
Low	472800.	9460.	18920.	1892.	4728.	236400.	9460.

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4809.	24880.	194300.	247300.	9723.	4795.	100600.
SDev	54.	297.	1563.	2891.	119.	54.	1571.
%RSD	1.131	1.195	.8043	1.169	1.223	1.134	1.562
#1	4771.	24670.	193200.	245200.	9638.	4757.	99530.
#2	4847.	25090.	195400.	249300.	9807.	4834.	101800.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5272.	26360.	210800.	263600.	10540.	5272.	105400.
Low	4728.	23640.	189200.	236400.	9460.	4728.	94600.

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2504.	249400.	9633.	4907.	4850.	4889.	4798.
SDev	29.	2630.	109.	63.	58.	65.	47.
%RSD	1.176	1.055	1.128	1.279	1.197	1.326	.9810
#1	2483.	247500.	9556.	4863.	4809.	4843.	4765.
#2	2525.	251300.	9710.	4952.	4891.	4935.	4831.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2636.	263600.	10540.	5272.	5272.	5272.	5272.
Low	2364.	236400.	9460.	4728.	4728.	4728.	4728.

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	9683.	1930.	19780.	19230.	9711.	1970.	19300.

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SDev	112.	24.	208.	237.	117.	17.	232.
%RSD	1.158	1.234	1.053	1.235	1.204	.8758	1.203
#1	9604.	1914.	19630.	19060.	9628.	1958.	19130.
#2	9762.	1947.	19930.	19400.	9793.	1982.	19460.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10540.	2108.	21080.	21080.	10540.	2108.	
Low	9460.	1892.	18920.	18920.	9460.	1892.	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	19200.	1969.	1971.	9713.	9710.	1968.	
SDev	240.	14.	23.	130.	110.	22.	
%RSD	1.251	.7188	1.190	1.340	1.136	1.142	
#1	19030.	1959.	1955.	9621.	9632.	1952.	
#2	19370.	1979.	1988.	9805.	9788.	1984.	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						2108.	
Low						1892.	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	899	--	--	--	--	--	--
SDev	9.846454	--	--	--	--	--	--
%RSD	1.094887	--	--	--	--	--	--
#1	906	--	--	--	--	--	--
#2	892	--	--	--	--	--	--

Method: SW846 Sample Name: ICV/CCV1 Operator:
Run Time: 10/27/98 20:14:40
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	246200.	4901.	9851.	964.2	2455.	123900.	5058.
SDev	1355.	20.	44.	4.4	10.	490.	19.
%RSD	.5502	.4007	.4428	.4525	.3950	.3960	.3849
#1	247200.	4914.	9882.	967.3	2462.	124200.	5072.
#2	245300.	4887.	9820.	961.1	2448.	123500.	5044.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	263600.	5272.	10540.	1054.	2636.	131800.	5272.
Low	236400.	4728.	9455.	946.0	2364.	118200.	4728.
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2463.	12280.	95850.	123200.	5010.	2439.	48980.
SDev	10.	62.	478.	544.	21.	9.	123.

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%RSD	.4239	.5028	.4992	.4411	.4177	.3796	.2509
#1	2471.	12320.	96190.	123600.	5024.	2445.	49070.
#2	2456.	12240.	95510.	122900.	4995.	2432.	48900.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2636.	13180.	105400.	131800.	5272.	2636.	52720.
Low	2364.	11820.	94550.	118200.	4728.	2364.	47280.
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1242.	126900.	4855.	2497.	2494.	2499.	2461.
SDev	5.	660.	19.	11.	10.	7.	3.
%RSD	.3631	.5200	.3812	.4256	.4007	.2847	.1288
#1	1245.	127400.	4868.	2504.	2501.	2504.	2459.
#2	1239.	126400.	4842.	2489.	2487.	2494.	2463.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1318.	131800.	5272.	2636.	2636.	2636.	2636.
Low	1182.	118200.	4728.	2364.	2364.	2364.	2364.
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	4924.	1001.	9825.	9932.	4836.	1002.	9882.
SDev	19.	5.	46.	20.	16.	1.	11.
%RSD	.3922	.4661	.4671	.2002	.3278	.1277	.1064
#1	4938.	1005.	9857.	9946.	4847.	1002.	9889.
#2	4911.	997.9	9792.	9918.	4825.	1001.	9874.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5272.	1054.	10540.	10540.	5272.	1054.	
Low	4728.	946.0	9455.	9455.	4728.	946.0	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	9957.	1002.	1002.	4807.	4850.	983.6	
SDev	25.	2.	8.	15.	17.	1.6	
%RSD	.2467	.2233	.8306	.3022	.3405	.1675	
#1	9975.	1000.0	1007.	4817.	4862.	984.8	
#2	9940.	1003.	995.7	4797.	4839.	982.5	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						1054.	
Low						946.0	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	920	--	--	--	--	--	--
SDev	2.262750	--	--	--	--	--	--
%RSD	.2458442	--	--	--	--	--	--

306117

#1	919	--	--	--	--	--	--
#2	922	--	--	--	--	--	--

Method: SW846 Sample Name: ICB/CCB1 Operator:
Run Time: 10/27/98 20:20:01
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-4.494	-1.405	1.028	.0867	.2306	-29.30	.7118
SDev	2.633	1.177	.023	.0248	.1017	1.42	.3192
%RSD	58.59	83.80	2.281	28.60	44.10	4.846	44.85
#1	-6.355	-2.237	1.012	.0691	.1587	-30.31	.9375
#2	-2.632	-.5724	1.045	.1042	.3025	-28.30	.4860
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	4.000	5.000	1.000	1.500	400.0	5.000
Low	-199.0	-4.000	-5.000	-1.000	-1.500	-400.0	-5.000

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.2355	1.554	-7.834	-24.89	.4593	.3542	236.0
SDev	.1762	.071	2.290	1.60	.0082	.2643	28.8
%RSD	74.79	4.562	29.24	6.433	1.794	74.63	12.19
#1	-.3601	1.504	-6.214	-26.03	.4652	.5411	256.3
#2	-.1110	1.604	-9.453	-23.76	.4535	.1673	215.6
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	5.000	50.00	200.0	5.000	5.000	1000.
Low	-5.000	-5.000	-50.00	-200.0	-5.000	-5.000	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.1263	-14.28	1.808	.6915	.3317	1.760	6.990
SDev	.4468	114.39	.131	.2282	.0181	1.698	.303
%RSD	353.8	801.3	7.249	33.01	5.472	96.51	4.338
#1	.1897	-95.16	1.900	.5301	.3445	2.960	7.204
#2	-.4422	66.61	1.715	.8528	.3189	.5588	6.775
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	1000.	9.900	5.000	15.00	10.00	20.00
Low	-5.000	-1000.	-9.900	-5.000	-9.900	-10.00	-20.00

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	.3923	1.007	-.0626	.4252	-1.948	-1.634	.3351
SDev	.0138	.197	.6340	.3131	.731	1.953	1.347
%RSD	3.506	19.54	1013.	73.65	37.55	119.5	402.0
#1	.3826	.8678	.3857	.6466	-2.465	-3.014	1.288
#2	.4020	1.146	-.5108	.2038	-1.430	-.2530	-.6176

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5.000	5.000	5.000	3.000	5.000	10.00	
Low	-3.000	-3.000	-5.000	-3.000	-5.000	-10.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	.4511	-2.376	-.1726	-2.493	-1.688	3.079	
SDev	.2033	1.768	2.3220	4.358	1.079	.037	
%RSD	45.06	74.43	1345.	174.8	63.91	1.204	
#1	.3074	-3.626	-1.814	-5.574	-.9253	3.105	
#2	.5949	-1.125	1.469	.5887	-2.451	3.053	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						15.00	
Low						-9.900	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	947	--	--	--	--	--	--
SDev	7.707438	--	--	--	--	--	--
%RSD	.8139009	--	--	--	--	--	--
#1	942	--	--	--	--	--	--
#2	952	--	--	--	--	--	--

Method: SW846 Sample Name: ICSA1 Operator:
Run Time: 10/27/98 20:25:22
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	494600.	-1.006	4.592	-.0704	-.3009	460900.	.2815
SDev	971.	1.738	.124	.0112	.1854	2393.	.3426
%RSD	.1963	172.8	2.708	15.88	61.63	.5192	121.7
#1	493900.	-2.235	4.680	-.0784	-.1698	459200.	.0393
#2	495300.	.2233	4.505	-.0625	-.4320	462600.	.5237
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600000.	10.00	20.00	5.000	3.500	600000.	5.000
Low	400000.	-10.00	-10.00	-5.000	-3.500	400000.	-5.000
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.4660	-.6114	189600.	494000.	1.421	1.474	174.2
SDev	.0961	.0516	314.	2288.	.042	.195	24.7
%RSD	20.62	8.442	.1655	.4632	2.971	13.24	14.20
#1	.3980	-.6479	189300.	492400.	1.450	1.336	156.7
#2	.5339	-.5749	189800.	495600.	1.391	1.612	191.6
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass

306119

High	5.000	20.00	240000.	600000.	10.00	10.00	500.0
Low	-5.000	-10.00	160000.	400000.	-5.000	-5.000	-500.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.3612	648.6	-4.591	2.920	-4.298	-.1755	7.434
SDev	.2261	250.6	.834	.524	.137	.0008	1.715
%RSD	62.59	38.64	18.17	17.94	3.179	.4410	23.06
#1	.2013	471.3	-5.181	2.550	-4.202	-.1761	8.647
#2	.5210	825.8	-4.001	3.290	-4.395	-.1750	6.222
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.00	1000.	10.00	10.00	10.00	10.00	15.00
Low	-10.00	-2000.	-10.00	-5.000	-10.00	-5.000	-15.00

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	.2597	.5854	4.386	1.051	-4.143	.3626	91.87
SDev	.0746	.7714	.535	2.082	9.485	1.177	.19
%RSD	28.70	131.8	12.20	198.0	229.0	324.5	.2101
#1	.3124	1.131	4.764	2.523	2.564	1.194	92.00
#2	.2070	.0399	4.007	-.4205	L-10.85	-.4693	91.73
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10.00	10.00	10.00	5.000	10.00	10.00	
Low	-5.000	-5.000	-5.000	-5.000	-10.00	-10.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	-44.31	-.2110	1.485	.3421	-6.395	.0168
SDev	3.02	.3288	4.192	5.280	11.585	.5331
%RSD	6.826	155.8	282.3	1543.	181.1	3166.
#1	-42.17	-.4435	4.449	4.075	1.796	.3938
#2	-46.45	.0215	-1.479	-3.391	-14.59	-.3601
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						15.00
Low						-15.00

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	903	--	--	--	--	--	--
SDev	5.815979	--	--	--	--	--	--
%RSD	.6441354	--	--	--	--	--	--
#1	907	--	--	--	--	--	--
#2	899	--	--	--	--	--	--

Method: SW846 Sample Name: ICSAB1 Operator: 306120

Run Time: 10/27/98 20:30:43
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	505400.	101.4	107.3	100.0	96.08	471500.	99.42
SDev	971.	5.0	.2	.1	.02	990.	.20
%RSD	.1921	4.893	.1899	.0623	.0193	.2099	.2006
#1	504700.	97.88	107.5	99.97	96.07	470800.	99.28
#2	506100.	104.9	107.2	100.1	96.09	472200.	99.56
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600000.	120.0	120.0	120.0	120.0	600000.	120.0
Low	400000.	80.00	80.00	80.00	80.00	400000.	80.00

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	96.70	98.69	191000.	516300.	100.5	96.22	10120.
SDev	.13	.51	335.	1128.	.2	.01	58.
%RSD	.1315	.5195	.1755	.2185	.2150	.0141	.5765
#1	96.61	99.05	191300.	515500.	100.4	96.21	10080.
#2	96.79	98.32	190800.	517100.	100.7	96.23	10160.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	120.0	120.0	240000.	600000.	120.0	120.0	12000.
Low	80.00	80.00	160000.	400000.	80.00	80.00	8000.

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	104.4	11830.	91.08	103.6	100.7	102.5	L6.099
SDev	.1	271.	3.85	.0	.2	.3	1.407
%RSD	.0497	2.288	4.227	.0126	.1600	.2831	23.08
#1	104.4	H12020.	88.36	103.6	100.6	102.7	L7.094
#2	104.5	11640.	93.80	103.6	100.8	102.3	L5.104
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	120.0	12000.	120.0	120.0	120.0	120.0	120.0
Low	80.00	8000.	80.00	80.00	80.00	80.00	80.00

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	105.7	100.1	104.7	98.40	96.59	95.52	196.7
SDev	.0	1.5	.5	1.06	1.69	.26	.5
%RSD	.0435	1.530	.4376	1.079	1.749	.2713	.2620
#1	105.7	99.05	105.0	99.15	95.39	95.71	196.3
#2	105.8	101.2	104.3	97.65	97.78	95.34	197.1
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	120.0	120.0	120.0	120.0	120.0	120.0	
Low	80.00	80.00	80.00	80.00	80.00	80.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb

306121

Avge	49.32	94.20	98.14	100.7	94.50	104.7
SDev	1.85	1.76	2.75	2.6	1.25	1.8
%RSD	3.748	1.872	2.806	2.555	1.319	1.707
#1	50.62	95.45	96.19	98.93	93.62	106.0
#2	48.01	92.95	100.1	102.6	95.38	103.5
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						120.0
Low						80.00

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	903	--	--	--	--	--	--
SDev	4.260335	--	--	--	--	--	--
%RSD	.4715564	--	--	--	--	--	--
#1	906	--	--	--	--	--	--
#2	900	--	--	--	--	--	--

Method: SW846 Sample Name: INT-20 Operator:
Run Time: 10/27/98 20:36:04
Comment: 503171
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	60.31	.1183	-2.642	19.47	.4957	66.10	20120.
SDev	21.50	1.924	.002	.46	.1320	17.64	70.
%RSD	35.64	1626.	.0940	2.474	26.62	26.69	.3499
#1	75.52	1.479	-2.640	19.81	.5890	78.58	20170.
#2	45.11	-1.242	-2.643	19.13	.4024	53.62	20070.

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	20440.	-8.179	-145.3	10.54	19400.	20360.	289.0
SDev	52.	1.038	2.1	18.98	65.	74.	19.6
%RSD	.2531	12.69	1.421	180.1	.3332	.3644	6.773
#1	20480.	-7.445	-143.9	23.96	19450.	20420.	302.9
#2	20410.	-8.913	-146.8	-2.885	19350.	20310.	275.2

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-5.704	-6031.	-47.18	20030.	17.72	19630.	.0966
SDev	.668	722.	1.74	110.	.06	44.	1.605
%RSD	11.70	11.97	3.678	.5505	.3459	.2219	1662.
#1	-5.231	-5521.	-45.95	20100.	17.68	19660.	1.232
#2	-6.176	-6542.	-48.41	19950.	17.77	19600.	-1.039

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	

306122

Avge	18850.	19840.	19910.	6.814	1.367	-3.889	5.322
SDev	6.	108.	2.	.591	1.538	2.981	2.523
%RSD	.0297	.5437	.0108	8.669	112.5	76.64	47.40
#1	18840.	19910.	19910.	6.397	.2796	-5.997	7.106
#2	18850.	19760.	19910.	7.232	2.454	-1.782	3.539

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	7.544	23.46	-58.69	-2.211	3.141	4.728
SDev	2.145	2.85	3.23	3.472	.572	.098
%RSD	28.44	12.17	5.510	157.0	18.21	2.074
#1	6.027	21.44	-60.98	-4.667	2.736	4.798
#2	9.060	25.47	-56.40	.2440	3.545	4.659

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	947	--	--	--	--	--	--
SDev	1.502602	--	--	--	--	--	--
%RSD	.1587304	--	--	--	--	--	--
#1	946	--	--	--	--	--	--
#2	948	--	--	--	--	--	--

Method: SW846 Sample Name: MCL Operator:
Run Time: 10/27/98 20:41:25
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	176.5	22.78	51.36	3.979	5.015	5062.	23.90
SDev	4.6	.19	.01	.009	.026	2.	.53
%RSD	2.617	.8308	.0191	.2363	.5238	.0323	2.212
#1	179.7	22.65	51.35	3.973	5.033	5061.	24.28
#2	173.2	22.91	51.37	3.986	4.996	5063.	23.53

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	56.17	50.36	193.3	4932.	22.37	54.66	9775.
SDev	.85	.40	20.9	7.	.41	1.33	15.
%RSD	1.518	.7961	10.82	.1429	1.846	2.439	.1532
#1	56.77	50.08	178.5	4927.	22.66	55.60	9764.
#2	55.56	50.65	208.1	4937.	22.08	53.71	9785.

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	20.13	12100.	15.91	54.31	51.12	60.78	201.5
SDev	.73	41.	.91	.31	.21	7.59	2.1
%RSD	3.621	.3388	5.697	.5703	.4088	12.48	1.028

306123

#1	20.65	12070.	15.27	54.53	50.97	66.14	203.0
#2	19.62	12130.	16.55	54.09	51.27	55.41	200.1

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	105.2	114.4	42.98	9.039	3.946	19.01	7.885
SDev	.5	8.4	.21	.741	2.221	2.57	.492
%RSD	.4414	7.349	.4906	8.193	56.29	13.53	6.244
#1	105.5	120.3	42.83	8.515	5.516	20.83	8.233
#2	104.8	108.4	43.13	9.563	2.375	17.19	7.537

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	9.599	19.92	17.16	-.6264	6.216	100.2
SDev	1.356	2.25	3.21	5.0453	.811	.6
%RSD	14.13	11.31	18.71	805.4	13.05	.5752
#1	8.640	21.52	19.43	2.941	6.789	99.79
#2	10.56	18.33	14.89	-4.194	5.642	100.6

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	922	--	--	--	--	--	--
SDev	1.202047	--	--	--	--	--	--
%RSD	.1303102	--	--	--	--	--	--
#1	922	--	--	--	--	--	--
#2	923	--	--	--	--	--	--

Method: SW846 Sample Name: BSW102798 Operator:
Run Time: 10/27/98 20:46:46
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1940.	1846.	1966.	50.30	49.29	19640.	201.6
SDev	3.	4.	.	.10	.05	30.	.4
%RSD	.1498	.2201	.0076	.2011	.1052	.1528	.1773
#1	1938.	1843.	1966.	50.23	49.25	19620.	201.9
#2	1942.	1849.	1966.	50.37	49.33	19660.	201.4
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2400.	2400.	2400.	60.00	60.00	24000.	240.0
Low	1600.	1600.	1600.	40.00	40.00	16000.	160.0

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	499.1	245.6	938.4	19330.	492.9	498.5	18720.
SDev	1.0	.4	2.7	5.	1.3	.4	46.
%RSD	.1984	.1427	.2926	.0276	.2635	.0860	.2476

306124

#1	498.4	245.8	940.3	19330.	492.0	498.2	18690.
#2	499.8	245.3	936.4	19340.	493.8	498.8	18750.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.0	300.0	1200.	24000.	600.0	600.0	24000.
Low	400.0	200.0	800.0	16000.	400.0	400.0	16000.
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	48.97	23190.	1978.	503.0	502.5	515.3	L7.223
SDev	.29	310.	10.	1.2	1.1	.5	.506
%RSD	.5822	1.337	.4977	.2353	.2147	.1002	7.009
#1	49.17	23410.	1971.	502.1	501.7	514.9	L6.865
#2	48.77	22970.	1985.	503.8	503.3	515.6	L7.581
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	60.00	24000.	2400.	600.0	600.0	600.0	1200.
Low	40.00	16000.	1600.	400.0	400.0	400.0	800.0
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	511.0	L357.4	481.0	495.2	1974.	469.0	489.5
SDev	.7	3.4	.1	1.6	9.	1.6	1.5
%RSD	.1377	.9389	.0134	.3321	.4411	.3326	.3157
#1	510.5	L359.8	481.0	494.0	1968.	467.9	488.4
#2	511.5	L355.0	480.9	496.4	1980.	470.1	490.6
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	600.0	600.0	600.0	600.0	2400.	600.0	
Low	400.0	400.0	400.0	400.0	1600.	400.0	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	498.0	467.4	472.2	1969.	1976.	551.8	
SDev	1.7	1.8	1.0	.	13.	.2	
%RSD	.3401	.3891	.2205	.0207	.6500	.0280	
#1	496.8	466.1	471.5	1969.	1967.	551.9	
#2	499.2	468.7	472.9	1970.	1985.	551.7	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						600.0	
Low						400.0	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	938	--	--	--	--	--	--
SDev	3.376409	--	--	--	--	--	--
%RSD	.3601071	--	--	--	--	--	--
#1	940	--	--	--	--	--	--
#2	935	--	--	--	--	--	--

306125

Method: SW846 Sample Name: PBW102798 Operator:
Run Time: 10/27/98 20:52:07
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-26.70	.7038	-.3780	-.0750	-.0483	-34.30	.6409
SDev	.70	.3177	.0186	.0082	.0085	.54	.2204
%RSD	2.613	45.14	4.932	10.91	17.56	1.585	34.39
#1	-27.19	.9285	-.3648	-.0808	-.0543	-34.68	.4851
#2	-26.20	.4791	-.3911	-.0692	-.0423	-33.91	.7968
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	5.000	20.00	4.900	4.900	500.0	9.900
Low	-199.0	-5.000	-20.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.1943	.3582	-.9198	-39.78	.4060	1.233	296.1
SDev	.0735	.5834	7.5529	.59	.0678	.450	.5
%RSD	37.84	162.9	821.1	1.487	16.71	36.48	.1721
#1	-.2462	.7708	-6.260	-39.36	.3580	.9148	295.8
#2	-.1423	-.0543	4.421	-40.19	.4539	1.551	296.5
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.900	9.900	99.00	500.0	9.900	9.900	1000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-500.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.1003	-562.6	4.348	1.069	2.856	1.221	6.104
SDev	.3883	22.9	1.280	1.061	.051	.051	.602
%RSD	387.2	4.076	29.44	99.18	1.790	4.179	9.869
#1	-.1743	-546.3	3.443	.3194	2.892	1.185	5.678
#2	.3749	-578.8	5.253	1.819	2.820	1.257	6.530
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	4.900	1000.	9.900	9.900	15.00	10.00	20.00
Low	-4.900	-1000.	-9.900	-9.900	-9.900	-10.00	-20.00

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	.0715	1.345	.6978	-.8992	-2.604	-1.781	-2.986
SDev	.0034	1.748	.0840	.5882	1.605	.759	.755
%RSD	4.716	130.0	12.03	65.41	61.64	42.65	25.29
#1	.0739	2.580	.6384	-1.315	-1.469	-2.318	-2.452
#2	.0691	.1090	.7571	-.4833	-3.739	-1.244	-3.520
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10.00	10.00	10.00	2.900	4.900	9.900	

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Low	-3.000	-3.000	-5.000	-2.900	-4.900	-9.900
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	.1268	-4.244	3.128	-6.876	-.4837	3.819
SDev	1.259	1.717	5.720	4.558	.1309	.288
%RSD	992.5	40.46	182.9	66.28	27.07	7.538
#1	-.7632	-3.030	-.9171	-3.654	-.3911	3.616
#2	1.017	-5.458	7.172	-10.10	-.5762	4.023
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						15.00
Low						-9.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	953	--	--	--	--	--	--
SDev	.4242900	--	--	--	--	--	--
%RSD	.0445367	--	--	--	--	--	--
#1	953	--	--	--	--	--	--
#2	952	--	--	--	--	--	--

Method: SW846 Samole Name: LCSW Operator:
Run Time: 10/27/98 20:57:29
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1016.	988.7	998.6	988.7	1016.	987.9	1008.
SDev	5.	2.8	.3	.5	.	.2	.
%RSD	.4438	.2847	.0343	.0501	.0325	.0216	.0067
#1	1019.	990.7	998.3	988.3	1016.	988.0	1008.
#2	1013.	986.7	998.8	989.0	1016.	987.7	1008.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1200.	1200.	1200.	1200.	1200.	1200.	1200.
Low	800.0	800.0	800.0	800.0	800.0	800.0	800.0

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1032.	992.8	1037.	952.1	1003.	1027.	9119.
SDev	.	.2	7.	6.5	.	1.	15.
%RSD	.0461	.0164	.6992	.6799	.0047	.0851	.1690
#1	1031.	992.7	1042.	956.7	1003.	1026.	9130.
#2	1032.	993.0	1031.	947.5	1003.	1028.	9108.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1200.	1200.	1200.	1200.	1200.	1200.	12000.
Low	800.0	800.0	800.0	800.0	800.0	800.0	8000.

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Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	963.8	L1480.	1004.	1004.	1012.	1034.	L2.962
SDev	1.1	207.	7.	.	1.	1.	1.804
%RSD	.1120	14.02	.7408	.0009	.0549	.1416	60.91
#1	963.1	L1627.	998.9	1004.	1011.	1033.	L4.238
#2	964.6	L1333.	1009.	1004.	1012.	1035.	L1.686
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	1200.	12000.	1200.	1200.	1200.	1200.	1200.
Low	800.0	8000.	800.0	800.0	800.0	800.0	800.0

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	L-.2272	L4.160	1007.	1018.	1003.	964.4	1011.
SDev	.0116	.953	.	2.	1.	.4	5.
%RSD	5.103	22.92	.0247	.2275	.0799	.0426	.4545
#1	L-.2190	L4.834	1007.	1019.	1003.	964.1	1015.
#2	L-.2354	L3.486	1006.	1016.	1004.	964.7	1008.
Errors	LC Low	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	1200.	1200.	1200.	1200.	1200.	1200.	
Low	800.0	800.0	800.0	800.0	800.0	800.0	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	1021.	965.2	962.7	1000.0	1005.	1042.
SDev	1.	1.3	1.4	3.65	3.	5.
%RSD	.1152	.1365	.1458	.3653	.3011	.5053
#1	1022.	964.2	963.7	1003.	1003.	1038.
#2	1020.	966.1	961.7	997.4	1007.	1046.
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						1200.
Low						800.0

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	956	--	--	--	--	--	--
SDev	1.644032	--	--	--	--	--	--
%RSD	.1720261	--	--	--	--	--	--
#1	955	--	--	--	--	--	--
#2	957	--	--	--	--	--	--

Method: SW846 Sample Name: 91152D Operator:
Run Time: 10/27/98 21:02:50
Comment: 5031T1

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Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	334.9	.8703	28.63	.1802	.1631	4974.	1.655
SDev	2.6	1.610	.16	.0008	.2284	38.	.199
%RSD	.7696	185.0	.5692	.4172	140.0	.7558	12.02
#1	336.7	-.2681	28.51	.1807	.0016	4948.	1.796
#2	333.1	2.009	28.74	.1797	.3246	5001.	1.514
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.224	1.608	26.69	1345.	26.35	1.481	1166.
SDev	.280	.350	3.93	8.	.15	.007	22.
%RSD	22.87	21.78	14.72	.6202	.5604	.4525	1.860
#1	1.422	1.360	23.91	1339.	26.24	1.486	1151.
#2	1.026	1.856	29.47	1351.	26.45	1.476	1181.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.2353	14550.	1.379	1.068	11.29	.8010	15.45
SDev	.7761	76.	2.635	.250	.17	.0272	2.14
%RSD	329.8	.5194	191.1	23.43	1.527	3.390	13.84
#1	.7841	14610.	3.242	.8908	11.17	.8202	13.94
#2	-.3134	14500.	-.4845	1.245	11.41	.7818	16.96
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	29.62	3.071	2.465	-.2023	-.6600	.0613	-2.339
SDev	.18	.539	.157	.0792	.7315	1.013	.677
%RSD	.6050	17.56	6.380	39.13	110.8	1653.	28.92
#1	29.49	3.452	2.576	-.1463	-1.177	-.6550	-2.818
#2	29.75	2.689	2.354	-.2583	-.1428	.7776	-1.861
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	.8488	1.300	-2.446	-5.860	1.923	29.81
SDev	.4565	1.247	5.540	4.276	1.038	1.11

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%RSD	53.78	95.92	226.5	72.97	53.97	3.741
#1	1.172	2.182	-6.363	-8.883	2.657	30.60
#2	.5260	.4183	1.472	-2.836	1.189	29.02
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	946	--	--	--	--	--	--
SDev	2.810732	--	--	--	--	--	--
%RSD	.2970901	--	--	--	--	--	--
#1	948	--	--	--	--	--	--
#2	944	--	--	--	--	--	--

Method: SW846 Sample Name: 91152 Operator:
Run Time: 10/27/98 21:08:11
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	343.3	-.1866	28.05	.0794	-.1143	4923.	1.148
SDev	5.7	.1048	.19	.0009	.0521	7.	.478
%RSD	1.669	56.19	.6704	1.130	45.60	.1485	41.65
#1	339.3	-.1124	27.92	.0800	-.1512	4918.	.8096
#2	347.4	-.2607	28.18	.0787	-.0774	4928.	1.485
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.7751	.4282	29.01	1326.	25.86	1.568	1091.
SDev	.5348	.4442	11.42	4.	.17	.098	14.
%RSD	68.99	103.7	39.38	.3120	.6577	6.225	1.319
#1	.3970	.7423	37.08	1323.	25.74	1.499	1081.
#2	1.153	.1141	20.93	1328.	25.98	1.637	1101.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.6335	14720.	-2.354	.4675	7.668	.1360	14.40
SDev	.0643	97.	3.109	.2455	.056	.1618	2.25
%RSD	10.15	.6606	132.1	52.50	.7305	119.0	15.60

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#1	-.6790	14650.	-4.552	.2940	7.629	.2504	12.81
#2	-.5880	14790.	-.1559	.6411	7.708	.0216	15.99
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	29.40	3.630	1.800	-1.645	-3.749	.5596	-1.351
SDev	.07	.189	.403	.826	.036	.5778	1.914
%RSD	.2263	5.206	22.37	50.19	.9483	103.3	141.7
#1	29.35	3.497	2.085	-2.229	-3.774	.9682	-2.704
#2	29.45	3.764	1.515	-1.061	-3.723	.1510	.0026
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	-1.811	-1.270	4.200	-4.419	-3.427	23.98
SDev	.282	3.435	5.145	.096	.101	2.09
%RSD	15.59	270.4	122.5	2.172	2.952	8.703
#1	-2.011	1.158	.5618	-4.351	-3.498	22.50
#2	-1.612	-3.699	7.838	-4.486	-3.355	25.45
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	942	--	--	--	--	--	--
SDev	2.421832	--	--	--	--	--	--
%RSD	.2570504	--	--	--	--	--	--
#1	944	--	--	--	--	--	--
#2	940	--	--	--	--	--	--

Method: SW846 Sample Name: 91152L Operator:
Run Time: 10/27/98 21:13:32
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	30.63	-.6090	5.097	-.0240	-.1146	965.1	-.1534
SDev	.38	.1580	.018	.0114	.0159	4.6	.2507
%RSD	1.237	25.94	.3511	47.44	13.85	.4754	163.5

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#1	30.89	-.7207	5.110	-.0160	-.1034	968.4	.0239
#2	30.36	-.4973	5.084	-.0321	-.1258	961.9	-.3307
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.2988	.2328	-.1079	227.0	4.748	.2764	452.4
SDev	.0515	.7645	.7886	2.0	.084	.4291	15.1
%RSD	17.25	328.3	730.9	.8990	1.764	155.3	3.336
#1	-.3352	-.3077	.4497	228.5	4.808	.5799	463.0
#2	-.2623	.7734	-.6655	225.6	4.689	-.0270	441.7
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.0046	3277.	-1.181	.2611	3.652	-.4800	9.628
SDev	.0135	1.	.230	.4361	.159	.7662	.701
%RSD	293.8	.0198	19.50	167.0	4.342	159.6	7.277
#1	.0049	3277.	-1.018	-.0472	3.540	.0617	10.12
#2	-.0141	3278.	-1.344	.5695	3.764	-1.022	9.132
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	5.593	.3810	.0623	-.7709	-4.523	-2.432	-2.588
SDev	.037	.8208	.3118	.0376	1.154	.229	2.600
%RSD	.6619	215.5	500.3	4.878	25.51	9.417	100.5
#1	5.619	.9614	.2828	-.7975	L-5.339	-2.270	-.7488
#2	5.567	-.1994	-.1582	-.7444	-3.707	-2.594	-4.426
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	.1203	-2.213	-2.897	-7.352	-3.124	6.016	
SDev	1.355	1.085	1.485	1.968	2.713	.378	
%RSD	1126.	49.02	51.26	26.77	86.84	6.280	
#1	-.8376	-1.446	-3.947	-5.961	-5.042	5.749	
#2	1.078	-2.980	-1.847	-8.743	-1.206	6.283	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	

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High						5000.	
Low						-4.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	951	--	--	--	--	--	--
SDev	2.916815	--	--	--	--	--	--
%RSD	.3068112	--	--	--	--	--	--
#1	949	--	--	--	--	--	--
#2	953	--	--	--	--	--	--

Method: SW846 Sample Name: CCV2 Operator:
Run Time: 10/27/98 21:18:54
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	249800.	4893.	10140.	973.8	2458.	125600.	5098.
SDev	261.	7.	7.	.6	4.	105.	3.
%RSD	.1044	.1500	.0670	.0568	.1446	.0839	.0505
#1	249600.	4898.	10140.	974.2	2461.	125600.	5099.
#2	250000.	4888.	10130.	973.4	2456.	125500.	5096.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	263600.	5272.	10540.	1054.	2636.	131800.	5272.
Low	236400.	4728.	9455.	946.0	2364.	118200.	4728.

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2493.	12320.	100800.	125300.	5036.	2464.	48850.
SDev	6.	12.	417.	263.	1.	2.	131.
%RSD	.2207	.0962	.4135	.2100	.0229	.0685	.2675
#1	2497.	12310.	101100.	125500.	5035.	2465.	48760.
#2	2489.	12330.	100500.	125100.	5037.	2463.	48940.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2636.	13180.	105400.	131800.	5272.	2636.	52720.
Low	2364.	11820.	94550.	118200.	4728.	2364.	47280.

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1251.	128700.	4910.	2502.	2497.	2509.	2463.
SDev	.	54.	.	2.	.	2.	.
%RSD	.0149	.0422	.0054	.0762	.0140	.0685	.0027
#1	1251.	128700.	4910.	2500.	2497.	2508.	2463.
#2	1251.	128800.	4910.	2503.	2497.	2510.	2463.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1318.	131800.	5272.	2636.	2636.	2636.	2636.

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Low	1182.	118200.	4728.	2364.	2364.	2364.	2364.

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	5029.	1003.	10050.	9965.	4871.	1006.	9983.
SDev	2.	6.	9.	14.	8.	2.	10.
%RSD	.0345	.6065	.0848	.1390	.1726	.2044	.1034
#1	5027.	1008.	10060.	9955.	4877.	1004.	9975.
#2	5030.	998.9	10050.	9975.	4866.	1007.	9990.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5272.	1054.	10540.	10540.	5272.	1054.	
Low	4728.	946.0	9455.	9455.	4728.	946.0	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	9956.	1010.	997.0	4872.	4871.	991.5
SDev	16.	.	6.8	6.	10.	.2
%RSD	.1568	.0329	.6859	.1172	.2002	.0218
#1	9945.	1010.	992.1	4876.	4878.	991.7
#2	9967.	1010.	1002.	4868.	4864.	991.4
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						1054.
Low						946.0

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	929	--	--	--	--	--	--
SDev	3.836046	--	--	--	--	--	--
%RSD	.4127388	--	--	--	--	--	--
#1	932	--	--	--	--	--	--
#2	927	--	--	--	--	--	--

Method: SW846 Sample Name: CCB2 Operator:
Run Time: 10/27/98 21:24:15
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-19.40	-1.912	.2507	.0034	.0343	-40.51	.4867
SDev	8.40	1.045	.0096	.0077	.0424	.52	.5559
%RSD	43.32	54.66	3.829	229.4	123.7	1.291	114.2
#1	-25.35	-2.652	.2575	-.0021	.0643	-40.88	.8798
#2	-13.46	-1.173	.2440	.0088	.0043	-40.14	.0937
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	4.000	5.000	1.000	1.500	400.0	5.000
Low	-199.0	-4.000	-5.000	-1.000	-1.500	-400.0	-5.000

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Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.2480	1.395	-14.78	-36.52	.0193	.4517	256.0
SDev	.0826	.261	3.05	.70	.0052	.3172	41.8
%RSD	33.31	18.72	20.63	1.929	26.73	70.21	16.32
#1	-.1896	1.211	-12.62	-37.02	.0157	.2274	226.4
#2	-.3064	1.580	-16.93	-36.02	.0230	.6760	285.5
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	5.000	50.00	200.0	5.000	5.000	1000.
Low	-5.000	-5.000	-50.00	-200.0	-5.000	-5.000	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.3594	-316.3	-.9437	1.283	.0390	1.428	4.407
SDev	.4839	540.9	.5412	.632	.1211	.872	1.326
%RSD	134.6	171.0	57.35	49.26	310.8	61.05	30.08
#1	.7016	-698.8	-.5610	1.730	-.0467	2.045	3.470
#2	.0172	66.12	-1.326	.8362	.1246	.8116	5.344
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	1000.	9.900	5.000	15.00	10.00	20.00
Low	-5.000	-1000.	-9.900	-5.000	-9.900	-10.00	-20.00

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	.0201	.5196	.2126	-1.362	-.5252	-1.960	-.7320
SDev	.0052	1.018	.3706	.154	1.7919	.302	.0168
%RSD	26.04	196.0	174.3	11.30	341.2	15.39	2.294
#1	.0238	1.240	-.0495	-1.253	.7419	-2.173	-.7439
#2	.0164	-.2004	.4746	-1.471	-1.792	-1.747	-.7201
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5.000	5.000	5.000	3.000	5.000	10.00	
Low	-3.000	-3.000	-5.000	-3.000	-5.000	-10.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	-1.692	-2.795	-.3117	-5.261	1.827	.3645
SDev	.239	.879	.8546	5.962	.290	.7753
%RSD	14.14	31.44	274.2	113.3	15.87	212.7
#1	-1.523	-3.416	.2926	-1.045	1.622	.9127
#2	-1.861	-2.174	-.9160	-9.477	2.032	-.1837
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						15.00
Low						-9.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--

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Wavlen	371.030	--	--	--	--	--	--
Avge	962	--	--	--	--	--	--
SDev	8.785793	--	--	--	--	--	--
%RSD	.9135808	--	--	--	--	--	--
#1	968	--	--	--	--	--	--
#2	955	--	--	--	--	--	--

Method: SW846 Sample Name: 91152MS Operator:
Run Time: 10/27/98 21:29:36
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2307.	1872.	1997.	50.94	49.61	24730.	203.2
SDev	3.	13.	5.	.22	.51	49.	1.2
%RSD	.1468	.7152	.2277	.4279	1.021	.1965	.5828
#1	2309.	1881.	1994.	51.10	49.97	24760.	204.0
#2	2305.	1862.	2000.	50.79	49.25	24690.	202.3
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	507.5	247.0	987.9	20980.	525.0	504.7	19670.
SDev	1.2	.5	3.6	66.	1.5	.5	52.
%RSD	.2416	.2190	.3674	.3165	.2923	.0978	.2656
#1	508.3	247.4	990.5	21020.	526.1	505.1	19700.
#2	506.6	246.7	985.3	20930.	523.9	504.4	19630.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	49.15	36200.	1994.	504.4	514.8	513.4	20.59
SDev	.16	71.	10.	2.6	2.9	2.5	.71
%RSD	.3241	.1950	.4960	.5220	.5576	.4886	3.460
#1	49.04	36150.	1987.	506.3	516.8	515.2	20.08
#2	49.26	36250.	2001.	502.6	512.7	511.7	21.09
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	541.6	352.8	487.1	498.6	1974.	475.9	495.0
SDev	.4	3.7	.5	1.6	16.	4.1	4.4

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%RSD	.0731	1.047	.1052	.3242	.7950	.8705	.8931
#1	541.4	355.4	487.4	499.8	1986.	478.8	498.1
#2	541.9	350.2	486.7	497.5	1963.	473.0	491.9
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	500.4	476.1	475.4	1969.	1977.	527.9	
SDev	.2	2.0	8.4	18.	14.	3.5	
%RSD	.0433	.4218	1.771	.9329	.7265	.6640	
#1	500.6	477.5	481.4	1982.	1987.	530.3	
#2	500.3	474.7	469.5	1956.	1967.	525.4	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	937	--	--	--	--	--	--
SDev	1.272827	--	--	--	--	--	--
%RSD	.1357754	--	--	--	--	--	--
#1	937	--	--	--	--	--	--
#2	938	--	--	--	--	--	--

Method: SW846 Sample Name: 91152MSD Operator:
Run Time: 10/27/98 21:34:58
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2329.	1882.	2021.	50.95	49.48	24850.	202.7
SDev	18.	4.	4.	.07	.12	67.	.7
%RSD	.7614	.2225	.1963	.1448	.2437	.2710	.3647
#1	2341.	1885.	2024.	51.00	49.56	24900.	203.2
#2	2316.	1879.	2018.	50.90	49.39	24800.	202.1
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	509.3	245.9	1010.	21110.	524.1	505.2	19670.
SDev	.9	2.1	11.	53.	1.3	2.0	61.
%RSD	.1784	.8424	1.053	.2526	.2428	.3867	.3115

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#1	509.9	247.4	1018.	21150.	525.0	506.6	19710.
#2	508.6	244.5	1003.	21070.	523.2	503.8	19620.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	48.68	36820.	2007.	501.9	518.0	512.9	14.70
SDev	.61	107.	7.	.9	.5	.1	.74
%RSD	1.261	.2897	.3378	.1715	.0956	.0292	5.030
#1	49.11	36890.	2012.	502.5	518.4	513.0	15.22
#2	48.24	36740.	2003.	501.3	517.7	512.8	14.17
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	545.1	365.9	490.7	497.7	1991.	462.4	495.9
SDev	1.4	.6	1.9	.1	1.	.2	1.9
%RSD	.2653	.1776	.3916	.0157	.0666	.0469	.3741
#1	546.1	366.3	492.0	497.6	1992.	462.5	497.2
#2	544.1	365.4	489.3	497.8	1991.	462.2	494.6
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	498.6	459.5	468.1	1994.	1990.	526.5	
SDev	1.0	1.0	1.3	10.	7.	1.6	
%RSD	.2083	.2068	.2676	.4866	.3433	.3099	
#1	497.9	460.2	467.3	1988.	1995.	527.6	
#2	499.3	458.8	469.0	2001.	1985.	525.3	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	946	--	--	--	--	--	--
SDev	1.378867	--	--	--	--	--	--
%RSD	.1457037	--	--	--	--	--	--
#1	945	--	--	--	--	--	--

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#2	947	--	--	--	--	--	--

Method: SW846 Sample Name: 91152A Operator:
Run Time: 10/27/98 21:40:19
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2263.	1645.	1958.	49.41	48.01	24080.	197.5
SDev	17.	22.	12.	.44	.34	185.	.9
%RSD	.7512	1.344	.5917	.8984	.7115	.7688	.4534
#1	2251.	1630.	1950.	49.09	47.77	23950.	196.9
#2	2275.	1661.	1966.	49.72	48.25	24210.	198.1
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	492.5	241.4	956.0	20290.	509.5	488.9	19220.
SDev	3.5	.6	1.8	129.	3.9	3.5	138.
%RSD	.7138	.2617	.1918	.6380	.7728	.7084	.7188
#1	490.0	241.0	954.7	20200.	506.7	486.4	19120.
#2	495.0	241.9	957.3	20380.	512.3	491.3	19320.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	47.26	35810.	1943.	491.3	496.4	495.7	12.32
SDev	.13	259.	9.	5.1	4.4	3.8	.46
%RSD	.2677	.7222	.4827	1.048	.8804	.7571	3.699
#1	47.17	35620.	1937.	487.7	493.3	493.1	12.64
#2	47.35	35990.	1950.	495.0	499.5	498.4	11.99
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	530.7	120.5	440.9	481.7	1893.	444.4	477.2
SDev	3.8	1.0	2.3	2.4	7.	2.4	6.0
%RSD	.7202	.8346	.5239	.4900	.3491	.5429	1.256
#1	528.0	119.8	439.3	480.0	1888.	442.7	472.9
#2	533.4	121.2	442.6	483.3	1897.	446.1	481.4
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK

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High	10000.	2000.	100000.	20000.	10000.	2000.
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	483.9	441.0	451.1	1885.	1896.	519.6
SDev	.5	.0	7.3	28.	4.	4.1
%RSD	.1128	.0102	1.626	1.472	.2085	.7966
#1	483.5	441.1	445.9	1866.	1899.	516.7
#2	484.3	441.0	456.3	1905.	1893.	522.6
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	938	--	--	--	--	--	--
SDev	2.651650	--	--	--	--	--	--
%RSD	.2826166	--	--	--	--	--	--
#1	940	--	--	--	--	--	--
#2	936	--	--	--	--	--	--

Method: SW846 Sample Name: 92298 Operator:
Run Time: 10/27/98 21:45:41
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-25.16	-.7413	10.20	-.0583	-.1925	13790.	1.722
SDev	1.84	1.5647	.08	.0016	.1064	44.	.290
%RSD	7.330	211.1	.7678	2.695	55.27	.3187	16.84
#1	-26.46	-1.848	10.25	-.0594	-.2677	13820.	1.927
#2	-23.85	.3651	10.14	-.0572	-.1173	13750.	1.517
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.2371	37.28	7435.	5744.	87.10	2.729	6292.
SDev	.3244	.16	24.	22.	.42	.286	47.
%RSD	136.8	.4237	.3247	.3851	.4865	10.49	.7517
#1	-.0077	37.39	7452.	5759.	87.40	2.527	6326.
#2	-.4664	37.17	7417.	5728.	86.80	2.932	6259.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.

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Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	325.1	38200.	-1.154	3.064	18.26	1.719	418.7
SDev	.4	69.	.235	.535	.01	.765	3.2
%RSD	.1154	.1807	20.37	17.45	.0476	44.52	.7613
#1	325.3	38160.	-.9874	3.442	18.25	2.260	416.4
#2	324.8	38250.	-1.320	2.686	18.27	1.178	421.0
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	105.9	1.762	-1.082	1.424	-.4215	-.3899	-.1329
SDev	.3	.357	1.001	.755	1.9111	1.1799	2.5064
%RSD	.2399	20.24	92.53	53.02	453.4	302.6	1886.
#1	106.1	1.510	-1.790	.8901	-1.773	.4444	1.639
#2	105.7	2.014	-.3742	1.958	.9298	-1.224	-1.905
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	2.185	-1.599	2.006	-4.993	1.848	21.50	
SDev	2.384	1.037	5.620	4.711	5.217	.14	
%RSD	109.1	64.85	280.2	94.35	282.3	.6600	
#1	.5000	-2.332	5.979	-1.662	-1.841	21.60	
#2	3.871	-.8655	-1.968	-8.325	5.537	21.40	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	937	--	--	--	--	--	--
SDev	3.429494	--	--	--	--	--	--
%RSD	.3661642	--	--	--	--	--	--
#1	934	--	--	--	--	--	--
#2	939	--	--	--	--	--	--

Method: SW846 Sample Name: 91153 Operator:
Run Time: 10/27/98 21:51:02

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Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	10020.	12.64	60.58	.4383	7.167	7692.	42.96
SDev	153.	1.66	.38	.0086	.216	3.	.15
%RSD	1.522	13.15	.6295	1.972	3.015	.0349	.3598
#1	10130.	11.46	60.85	.4445	7.320	7694.	43.07
#2	9914.	13.81	60.31	.4322	7.015	7690.	42.85
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.8722	19.79	25910.	1788.	63.78	4.126	1407.
SDev	.0195	.87	26.	2.	.23	.694	4.
%RSD	2.238	4.376	.0996	.1100	.3682	16.83	.3002
#1	.8860	19.18	25930.	1789.	63.94	3.635	1410.
#2	.8584	20.40	25890.	1786.	63.61	4.616	1404.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.1093	3120.	1.303	102.4	35.11	14.19	322.5
SDev	.1919	93.	4.711	.5	.08	.02	7.8
%RSD	175.6	2.983	361.4	.5300	.2270	.1284	2.413
#1	.0264	3054.	4.634	102.7	35.17	14.18	328.0
#2	-.2450	3185.	-2.027	102.0	35.05	14.21	317.0
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	25.50	3.538	270.5	12.38	9.125	.0221	13.85
SDev	.04	.810	6.1	1.25	.119	.7391	2.35
%RSD	.1452	22.90	2.266	10.13	1.306	3352.	16.99
#1	25.47	2.965	274.8	11.49	9.209	.5447	12.19
#2	25.53	4.110	266.2	13.26	9.041	-.5006	15.51
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	11.63	-.1318	.3049	6.360	10.49	16.25

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SDev	.70	1.0038	.2088	.208	.07	1.20
%RSD	6.040	761.5	68.46	3.268	.7145	7.357
#1	11.13	.5780	.4525	6.507	10.55	17.10
#2	12.12	-.8416	.1573	6.213	10.44	15.41
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	948	--	--	--	--	--	--
SDev	.5303301	--	--	--	--	--	--
%RSD	.0559449	--	--	--	--	--	--
#1	948	--	--	--	--	--	--
#2	948	--	--	--	--	--	--

Method: SW846 Sample Name: 91154 Operator:
Run Time: 10/27/98 21:56:24
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	53.71	-.9083	5.444	-.0738	-.2016	461.1	.9210
SDev	.15	2.2935	.054	.0151	.0289	3.8	.1093
%RSD	.2777	252.5	.9876	20.41	14.33	.8318	11.87
#1	53.60	-2.530	5.482	-.0631	-.1812	458.4	.9983
#2	53.81	.7134	5.406	-.0844	-.2220	463.8	.8437
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.7461	1.078	179.5	210.3	5.718	1.503	500.9
SDev	.2854	.520	5.4	4.9	.065	.218	3.2
%RSD	38.25	48.24	3.031	2.333	1.134	14.52	.6421
#1	-.5443	1.445	175.6	206.9	5.764	1.658	498.7
#2	-.9478	.7100	183.3	213.8	5.672	1.349	503.2
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.1012	17180.	-2.291	.5546	5.599	-.2387	9.313
SDev	.0415	176.	3.565	.6293	.005	.6067	.813

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%RSD	40.98	1.024	155.6	113.5	.0879	254.2	8.732
#1	.0719	17310.	-4.812	.9996	5.596	.1904	8.738
#2	.1305	17060.	.2296	.1097	5.603	-.6677	9.888
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	6.496	1.306	.3898	-1.335	1.093	.1423	-1.220
SDev	.003	.312	.1287	.737	.357	.0005	1.005
%RSD	.0464	23.91	33.01	55.17	32.72	.3460	82.32
#1	6.493	1.086	.4808	-.8144	1.345	.1419	-.5099
#2	6.498	1.527	.2988	-1.856	.8398	.1426	-1.931
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	-1.412	-1.498	3.402	-2.350	2.799	36.02
SDev	.603	.739	1.481	1.561	.243	1.02
%RSD	42.71	49.32	43.54	66.42	8.696	2.818
#1	-.9854	-.9755	2.355	-1.246	2.627	36.74
#2	-1.838	-2.020	4.450	-3.454	2.971	35.30
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	948	--	--	--	--	--	--
SDev	.4419417	--	--	--	--	--	--
%RSD	.0465968	--	--	--	--	--	--
#1	949	--	--	--	--	--	--
#2	948	--	--	--	--	--	--

Method: SW846 Sample Name: 91155 Operator:
Run Time: 10/27/98 22:01:45
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	756.0	-.3401	21.02	.0032	.6957	3172.	1.711
SDev	8.4	.1112	.09	.0095	.0909	7.	.029

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%RSD	1.106	32.71	.4382	291.1	13.07	.2282	1.675
#1	761.9	-.4187	20.96	.0099	.7599	3166.	1.690
#2	750.1	-.2614	21.09	-.0034	.6314	3177.	1.731
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.3087	1.503	776.1	1329.	47.95	2.088	679.1
SDev	.0987	.421	18.1	1.	.02	.314	14.1
%RSD	31.97	27.99	2.334	.1029	.0497	15.05	2.076
#1	.3785	1.800	788.9	1330.	47.97	1.865	669.1
#2	.2389	1.205	763.3	1328.	47.94	2.310	689.1
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.0535	6565.	2.949	3.511	177.1	.1267	15.59
SDev	1.1495	117.	.074	.335	.6	.2514	1.36
%RSD	2150.	1.781	2.504	9.529	.3547	198.3	8.712
#1	.7593	6482.	2.897	3.274	176.7	.3045	16.55
#2	-.8663	6648.	3.001	3.747	177.6	-.0510	14.63
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	13.54	1.176	8.248	-.1443	.8571	1.001	-2.568
SDev	.01	.307	1.705	1.2325	5.415	.274	1.355
%RSD	.0823	26.09	20.67	854.3	631.8	27.33	52.78
#1	13.55	1.393	9.453	-1.016	-2.972	1.194	-1.609
#2	13.53	.9593	7.042	.7272	4.686	.8075	-3.526
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	1.051	-.2006	3.382	-.1769	1.361	26.52
SDev	2.524	1.5885	2.360	8.5629	3.844	1.58
%RSD	240.1	791.8	69.78	4841.	282.5	5.971
#1	-.7337	.9226	1.713	-6.232	-1.357	27.64
#2	2.836	-1.324	5.051	5.878	4.079	25.40

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Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	946	--	--	--	--	--	--
SDev	4.826013	--	--	--	--	--	--
%RSD	.5102909	--	--	--	--	--	--
#1	949	--	--	--	--	--	--
#2	942	--	--	--	--	--	--

Method: SW846 Sample Name: 91156 Operator:
Run Time: 10/27/98 22:07:07
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	460.9	-.7574	14.63	-.0110	.1603	2464.	3.713
SDev	.3	1.4458	.19	.0117	.1802	15.	.092
%RSD	.0617	190.9	1.308	106.2	112.4	.6061	2.484
#1	460.7	.2650	14.49	-.0193	.2877	2453.	3.778
#2	461.1	-1.780	14.77	-.0027	.0330	2474.	3.648
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.2996	3.284	1001.	644.5	15.68	2.059	604.2
SDev	.1578	.495	13.	3.5	.03	.388	7.0
%RSD	52.68	15.08	1.299	.5493	.1767	18.86	1.160
#1	-.4112	2.934	991.4	642.0	15.66	2.333	599.2
#2	-.1880	3.635	1010.	647.0	15.70	1.784	609.2
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.1439	5103.	.6301	4.481	17.85	.0636	21.18
SDev	.0999	263.	1.052	.113	.10	.0190	1.25
%RSD	69.41	5.145	166.9	2.523	.5348	29.80	5.886
#1	.0733	4918.	-.1136	4.561	17.78	.0771	22.06
#2	.2145	5289.	1.374	4.401	17.92	.0502	20.30
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass

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High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	10.37	2.502	10.31	-.5157	-4.507	.3418	-3.410
SDev	.05	.660	1.19	2.1377	3.094	1.122	.626
%RSD	.5038	26.37	11.56	414.6	68.65	328.3	18.37
#1	10.33	2.969	9.465	-2.027	L-6.694	-.4517	-2.967
#2	10.40	2.036	11.15	.9959	-2.319	1.135	-3.853
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	.9135	.0371	.9266	-5.372	-4.087	38.99
SDev	3.518	2.856	2.350	2.977	3.152	2.35
%RSD	385.1	7693.	253.6	55.41	77.13	6.016
#1	-1.574	-1.982	2.589	-7.477	-6.316	37.34
#2	3.401	2.056	-.7353	-3.268	-1.858	40.65
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	944	--	--	--	--	--	--
SDev	3.588576	--	--	--	--	--	--
%RSD	.3803320	--	--	--	--	--	--
#1	946	--	--	--	--	--	--
#2	941	--	--	--	--	--	--

Method: SW846 Sample Name: 91157 Operator:
Run Time: 10/27/98 22:12:28
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3460.	3.772	16.76	.0310	.4054	6132.	18.27
SDev	57.	1.744	.17	.0038	.0435	113.	.51
%RSD	1.641	46.23	1.029	12.22	10.73	1.839	2.775
#1	3420.	5.005	16.64	.0283	.3746	6053.	17.91
#2	3500.	2.539	16.88	.0337	.4361	6212.	18.63
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass

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High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.3327	8.091	8199.	950.1	61.93	2.908	833.0
SDev	.0765	.774	99.	22.9	1.13	1.014	83.2
%RSD	22.99	9.571	1.206	2.410	1.818	34.88	9.992
#1	.2786	7.543	8129.	933.9	61.13	2.191	774.1
#2	.3867	8.639	8269.	966.3	62.72	3.626	891.8
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.0302	14170.	-2.112	22.53	48.73	2.908	107.7
SDev	.2821	264.	.082	.06	1.01	.107	5.2
%RSD	933.4	1.864	3.869	.2880	2.066	3.691	4.828
#1	-.1693	13990.	-2.170	22.49	48.02	2.984	104.0
#2	.2297	14360.	-2.054	22.58	49.45	2.832	111.4
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	60.74	2.984	71.52	9.136	.7707	1.041	8.832
SDev	1.03	.480	3.43	1.288	1.825	4.271	.790
%RSD	1.697	16.07	4.794	14.10	236.8	410.2	8.944
#1	60.01	3.323	73.95	10.05	2.061	-1.979	9.391
#2	61.47	2.645	69.10	8.226	-.5195	4.061	8.274
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	9.272	.0210	3.059	.5055	.8904	71.67	
SDev	1.537	4.449	3.913	.4955	2.983	.24	
%RSD	16.58	21160.	127.9	98.02	335.1	.3287	
#1	10.36	-3.125	.2920	.1551	3.000	71.50	
#2	8.185	3.167	5.826	.8559	-1.219	71.84	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	
IntStd	1	2	3	4	5	6	7

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Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	940	--	--	--	--	--	--
SDev	16.42254	--	--	--	--	--	--
%RSD	1.747613	--	--	--	--	--	--
#1	951	--	--	--	--	--	--
#2	928	--	--	--	--	--	--

Method: SW846 Sample Name: 91158 Operator:
Run Time: 10/27/98 22:17:49
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	129.6	-.6346	28.40	-.0643	.7342	14400.	1.046
SDev	8.5	.3284	.26	.0263	.0898	11.	.089
%RSD	6.525	51.74	.9205	40.95	12.24	.0759	8.473
#1	135.5	-.4024	28.58	-.0456	.6706	14390.	.9831
#2	123.6	-.8668	28.21	-.0829	.7977	14410.	1.108
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.0761	.4574	59.48	2421.	25.06	.9381	1811.
SDev	.1714	.1053	3.37	2.	.03	.0201	22.
%RSD	225.2	23.03	5.662	.0659	.1054	2.144	1.195
#1	.1973	.3829	61.86	2422.	25.04	.9239	1826.
#2	-.0451	.5319	57.10	2419.	25.07	.9523	1796.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.3012	39200.	-1.125	1.271	9.706	.0826	8.766
SDev	.0006	124.	2.424	.450	.058	.2456	2.016
%RSD	.1848	.3158	215.4	35.38	.5969	297.5	23.00
#1	-.3016	39290.	.5885	1.588	9.747	-.0911	10.19
#2	-.3008	39110.	-2.839	.9527	9.665	.2562	7.340
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	

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Avge	95.51	1.755	1.967	.0818	-.1274	-1.572	-.7449
SDev	.06	1.311	1.570	.8141	2.7620	2.029	1.9556
%RSD	.0651	74.69	79.84	994.7	2169.	129.0	262.5
#1	95.47	.8280	3.077	.6575	-2.080	-.1376	-2.128
#2	95.56	2.682	.8564	-.4938	1.826	-3.007	.6379
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	.4817	-3.033	1.327	-6.694	3.138	29.91	
SDev	2.197	2.933	.218	4.751	1.769	.66	
%RSD	456.0	96.72	16.43	70.97	56.38	2.215	
#1	2.035	-.9585	1.481	-10.05	1.887	30.37	
#2	-1.072	-5.107	1.173	-3.335	4.389	29.44	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	931	--	--	--	--	--	--
SDev	4.048212	--	--	--	--	--	--
%RSD	.4348299	--	--	--	--	--	--
#1	928	--	--	--	--	--	--
#2	934	--	--	--	--	--	--

Method: SW846 Sample Name: CCV3 Operator:
Run Time: 10/27/98 22:23:11
Comment: 5031TI
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	246800.	4931.	9977.	974.4	2471.	125200.	5113.
SDev	10.	31.	26.	2.6	13.	228.	16.
%RSD	.0040	.6363	.2628	.2688	.5083	.1822	.3107
#1	246800.	4954.	9958.	976.2	2480.	125400.	5125.
#2	246800.	4909.	9995.	972.5	2462.	125100.	5102.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	263600.	5272.	10540.	1054.	2636.	131800.	5272.
Low	236400.	4728.	9455.	946.0	2364.	118200.	4728.
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2488.	12330.	97590.	124700.	5057.	2465.	49240.

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SDev	8.	37.	338.	448.	14.	11.	107.
%RSD	.3194	.2999	.3468	.3595	.2715	.4422	.2169
#1	2493.	12360.	97350.	125000.	5067.	2472.	49320.
#2	2482.	12310.	97830.	124400.	5047.	2457.	49170.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2636.	13180.	105400.	131800.	5272.	2636.	52720.
Low	2364.	11820.	94550.	118200.	4728.	2364.	47280.
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1247.	127400.	4906.	2517.	2509.	2514.	2569.
SDev	2.	131.	21.	7.	10.	8.	10.
%RSD	.1553	.1029	.4355	.2913	.4012	.3249	.3710
#1	1249.	127500.	4921.	2523.	2516.	2520.	2563.
#2	1246.	127300.	4891.	2512.	2502.	2508.	2576.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1318.	131800.	5272.	2636.	2636.	2636.	2636.
Low	1182.	118200.	4728.	2364.	2364.	2364.	2364.
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	4986.	1008.	9957.	9977.	4856.	1005.	9942.
SDev	6.	6.	8.	25.	29.	2.	44.
%RSD	.1135	.6244	.0787	.2542	.5996	.2338	.4383
#1	4982.	1012.	9952.	9995.	4876.	1006.	9973.
#2	4990.	1004.	9963.	9960.	4835.	1003.	9912.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5272.	1054.	10540.	10540.	5272.	1054.	
Low	4728.	946.0	9455.	9455.	4728.	946.0	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	9995.	1007.	1000.	4829.	4869.	988.2	
SDev	16.	1.	5.	29.	29.	.5	
%RSD	.1628	.1089	.4856	.6100	.5945	.0531	
#1	10010.	1007.	1004.	4850.	4890.	987.8	
#2	9983.	1006.	996.8	4808.	4849.	988.6	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						1054.	
Low						946.0	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	920	--	--	--	--	--	--
SDev	.0176949	--	--	--	--	--	--
%RSD	.0019233	--	--	--	--	--	--

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#1	920	--	--	--	--	--	--
#2	920	--	--	--	--	--	--

Method: SW846 Sample Name: CCB3 Operator:
Run Time: 10/27/98 22:28:33
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-31.16	1.296	.2836	.0226	.1996	-38.36	.3646
SDev	2.86	1.692	.0944	.0076	.0758	.90	.3843
%RSD	9.175	130.5	33.30	33.68	37.96	2.343	105.4
#1	-33.19	2.493	.2168	.0172	.2532	-39.00	.0928
#2	-29.14	.0999	.3504	.0280	.1460	-37.73	.6363
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	4.000	5.000	1.000	1.500	400.0	5.000
Low	-199.0	-4.000	-5.000	-1.000	-1.500	-400.0	-5.000

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.2216	1.395	.1242	-33.08	.0466	.4199	236.9
SDev	.5747	.265	4.561	4.17	.1683	.2713	7.7
%RSD	259.4	19.01	3671.	12.60	360.9	64.62	3.264
#1	-.1848	1.207	3.349	-36.03	-.0724	.2280	231.4
#2	.6279	1.582	-3.101	-30.14	.1657	.6117	242.3
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	5.000	50.00	200.0	5.000	5.000	1000.
Low	-5.000	-5.000	-50.00	-200.0	-5.000	-5.000	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.1981	-80.07	-1.033	.3746	.0064	1.124	5.672
SDev	.0615	113.54	.764	.7132	.0908	.240	.153
%RSD	31.06	141.8	73.99	190.4	1422.	21.35	2.703
#1	.1546	-160.4	-.4925	-.1297	-.0578	1.293	5.780
#2	.2416	.2206	-1.573	.8789	.0706	.9540	5.564
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	1000.	9.900	5.000	15.00	10.00	20.00
Low	-5.000	-1000.	-9.900	-5.000	-9.900	-10.00	-20.00

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	.0341	1.219	-.4977	-.9534	-3.857	.0504	1.041
SDev	.0618	1.425	.6799	.4582	2.947	.6059	2.374
%RSD	181.6	116.9	136.6	48.06	76.42	1203.	228.0
#1	-.0097	.2113	-.9785	-.6294	-1.773	.4788	2.720
#2	.0778	2.227	-.0170	-1.277	L-5.940	-.3781	-.6373

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5.000	5.000	5.000	3.000	5.000	10.00	
Low	-3.000	-3.000	-5.000	-3.000	-5.000	-10.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	-1.963	-1.642	3.416	-5.592	-3.003	1.225	
SDev	.498	1.309	4.441	7.564	.642	.397	
%RSD	25.38	79.69	130.0	135.3	21.39	32.43	
#1	-2.316	-2.568	6.556	-.2433	-2.549	1.506	
#2	-1.611	-.7169	.2755	-10.94	-3.457	.9441	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						15.00	
Low						-9.900	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	956	--	--	--	--	--	--
SDev	.6894550	--	--	--	--	--	--
%RSD	.0721480	--	--	--	--	--	--
#1	956	--	--	--	--	--	--
#2	955	--	--	--	--	--	--

Method: SW846 Sample Name: 91159 Operator:
Run Time: 10/27/98 22:33:54
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2088.	.1953	34.66	.0402	2.336	17220.	5.634
SDev	20.	.5421	.07	.0232	.093	167.	.003
%RSD	.9344	277.5	.1945	57.56	3.975	.9688	.0567
#1	2102.	-.1880	34.71	.0566	2.402	17100.	5.632
#2	2074.	.5787	34.61	.0239	2.271	17340.	5.637
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.0922	5.433	2619.	2420.	7.248	1.415	2516.
SDev	.2368	.474	15.	15.	.035	.496	28.
%RSD	256.9	8.722	.5661	.6364	.4867	35.04	1.099
#1	.0753	5.768	2629.	2410.	7.223	1.064	2496.
#2	-.2596	5.098	2608.	2431.	7.273	1.766	2535.

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.0469	36290.	-.3784	12.21	7.961	1.523	70.65
SDev	.6551	439.	.1119	.25	.067	.283	1.12
%RSD	1397.	1.209	29.57	2.044	.8360	18.56	1.589
#1	.5101	35980.	-.2993	12.03	7.914	1.323	69.86
#2	-.4163	36600.	-.4575	12.38	8.008	1.723	71.44
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	167.9	3.049	53.35	1.384	-4.344	-2.274	2.098
SDev	1.7	.254	2.33	1.018	.538	.674	.070
%RSD	1.011	8.339	4.365	73.56	12.39	29.62	3.348
#1	166.7	3.229	54.99	.6642	-3.964	-2.751	2.148
#2	169.1	2.869	51.70	2.104	-4.725	-1.798	2.048
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	1.011	-4.225	1.608	-8.494	-2.285	66.02	
SDev	1.558	.064	2.151	3.053	.717	.94	
%RSD	154.1	1.519	133.8	35.94	31.38	1.425	
#1	-.0906	-4.180	.0865	-6.336	-2.792	65.35	
#2	2.113	-4.271	3.129	-10.65	-1.778	66.68	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	944	--	--	--	--	--	--
SDev	4.277988	--	--	--	--	--	--
%RSD	.4532967	--	--	--	--	--	--
#1	947	--	--	--	--	--	--
#2	941	--	--	--	--	--	--

306154

Method: SW846 Sample Name: 91160 Operator:
Run Time: 10/27/98 22:39:16
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	16.40	-1.438	18.49	-.0397	.0361	430.1	1.056
SDev	2.84	.806	.14	.0016	.0760	.7	.076
%RSD	17.32	56.06	.7501	4.080	210.3	.1740	7.209
#1	18.40	-2.008	18.39	-.0386	.0898	429.6	1.110
#2	14.39	-.8678	18.59	-.0409	-.0176	430.7	1.002
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.5595	2.256	210.6	163.3	8.331	1.139	1488.
SDev	.0017	.027	11.6	2.0	.029	.513	25.
%RSD	.3006	1.195	5.493	1.241	.3473	45.01	1.653
#1	-.5607	2.237	218.8	164.7	8.310	1.502	1471.
#2	-.5583	2.275	202.4	161.8	8.351	.7765	1506.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.0565	2714.	-1.864	.5207	9.935	-.0867	13.86
SDev	.5503	102.	1.422	.2834	.055	.0911	3.83
%RSD	973.2	3.749	76.26	54.43	.5544	105.0	27.60
#1	.3326	2642.	-.8590	.3203	9.974	-.0223	11.15
#2	-.4456	2786.	-2.870	.7211	9.896	-.1512	16.56
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	26.51	2.675	.3729	-.9219	-1.747	-1.769	-1.793
SDev	.13	.811	.9892	.7005	4.155	.512	.316
%RSD	.4851	30.33	265.3	75.98	237.9	28.96	17.63
#1	26.41	2.101	1.072	-1.417	1.192	-2.131	-2.017
#2	26.60	3.249	-.3265	-.4266	-4.685	-1.407	-1.570
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496

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Units						ppb
Avge	-.5013	-1.724	-1.884	-4.873	-.1983	17.27
SDev	.8923	.986	.436	1.701	5.3805	1.68
%RSD	178.0	57.17	23.17	34.90	2714.	9.735
#1	-1.132	-2.421	-1.575	-3.671	3.606	16.08
#2	.1296	-1.027	-2.192	-6.076	-4.003	18.46
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	940	--	--	--	--	--	--
SDev	3.058245	--	--	--	--	--	--
%RSD	.3251939	--	--	--	--	--	--
#1	943	--	--	--	--	--	--
#2	938	--	--	--	--	--	--

Method: SW846 Sample Name: 91161 Operator:
Run Time: 10/27/98 22:44:38
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	8546.	3.598	47.69	.1910	2.765	18200.	19.07
SDev	9.	1.358	.30	.0032	.030	152.	.44
%RSD	.1076	37.75	.6241	1.694	1.092	.8375	2.288
#1	8540.	4.559	47.48	.1932	2.743	18090.	18.77
#2	8553.	2.638	47.90	.1887	2.786	18310.	19.38
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.4380	8.380	11670.	3854.	231.8	6.060	3695.
SDev	.0288	.300	92.	22.	1.5	.291	38.
%RSD	6.581	3.581	.7912	.5687	.6261	4.795	1.040
#1	.4176	8.592	11600.	3839.	230.7	5.855	3668.
#2	.4584	8.168	11730.	3870.	232.8	6.266	3722.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

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Avge	.3908	105500.	-.0963	65.51	469.7	4.027	142.2
SDev	.0442	935.	1.4994	.36	3.0	.322	3.0
%RSD	11.30	.8865	1557.	.5484	.6309	8.001	2.076
#1	.4220	104800.	.9640	65.26	467.6	3.799	144.3
#2	.3596	106200.	-1.157	65.77	471.8	4.254	140.2
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	167.9	.2305	181.9	7.415	-1.237	-1.067	7.524
SDev	1.5	.1259	5.1	.107	.595	2.730	.711
%RSD	.8871	54.59	2.819	1.447	48.12	256.0	9.454
#1	166.8	.3195	185.5	7.491	-.8158	.8642	7.021
#2	168.9	.1415	178.3	7.339	-1.657	-2.997	8.027
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	7.346	.0809	-3.390	-5.233	.7458	67.53	
SDev	.518	.7817	6.634	1.114	.3360	.28	
%RSD	7.056	966.2	195.7	21.30	45.05	.4126	
#1	7.713	.6337	1.301	-4.445	.9833	67.34	
#2	6.980	-.4718	-8.081	-6.020	.5082	67.73	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	946	--	--	--	--	--	--
SDev	6.187184	--	--	--	--	--	--
%RSD	.6537600	--	--	--	--	--	--
#1	951	--	--	--	--	--	--
#2	942	--	--	--	--	--	--

Method: SW846 Sample Name: 91162 Operator:
Run Time: 10/27/98 22:49:59
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

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Client ID: **DSSR-1**
Site: **Klockner & Klockner**

Lab Sample No: 90838
Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Aluminum	10200	58.2	P
Antimony	ND	4.6	P
Arsenic	6.0	3.8	P
Barium	606	1.4	P
Beryllium	4.5	0.20	P
Cadmium	17.5	0.40	P
Calcium	94100	42.2	P
Chromium	365	1.0	P
Cobalt	25.3	1.2	P
Copper	231	3.5	P
Iron	153000	41.5	P
Lead	304	2.5	P
Magnesium	41500	40.3	P
Manganese	794	1.1	P
Mercury	14.8	0.50	CV
Nickel	123	2.1	P
Potassium	106000	601	P
Selenium	ND	4.8	P
Silver	ND	1.4	P
Sodium	246000	263	P
Thallium	ND	4.8	P
Vanadium	21.2	1.9	P
Zinc	5730	9.0	P

M Column - Method Code (See Section 2 of Report)

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Avge	2671.	.7665	12.02	-.0498	.0209	21610.	2.944
SDev	39.	2.417	.02	.0232	.2608	29.	.171
%RSD	1.470	315.3	.1588	46.59	1247.	.1324	5.793
#1	2699.	-.9425	12.04	-.0662	.2053	21630.	3.065
#2	2644.	2.475	12.01	-.0334	-.1635	21590.	2.823
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.0082	2.927	1471.	2833.	7.062	8.345	3348.
SDev	.2698	.331	16.	6.	.011	.208	36.
%RSD	3278.	11.32	1.116	.2150	.1621	2.491	1.079
#1	.1826	3.161	1483.	2837.	7.054	8.492	3373.
#2	-.1990	2.692	1460.	2829.	7.070	8.199	3322.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.5532	59770.	-2.556	2.477	37.69	.1253	69.50
SDev	.0334	183.	.772	.987	.04	.2285	.45
%RSD	6.043	.3069	30.20	39.83	.0931	182.4	.6502
#1	-.5296	59640.	-2.010	3.175	37.72	.2869	69.18
#2	-.5769	59900.	-3.102	1.780	37.67	-.0363	69.82
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	234.6	2.889	37.69	.0741	2.467	-.6722	1.318
SDev	.5	.192	6.92	1.201	1.426	2.3996	1.254
%RSD	.2021	6.630	18.37	1621.	57.81	357.0	95.14
#1	234.9	3.024	42.59	.9235	1.459	-2.369	2.205
#2	234.2	2.753	32.80	-.7753	3.475	1.025	.4314
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	-.5621	-3.450	4.867	.7133	3.330	68.21	
SDev	1.1736	1.571	4.060	2.537	.871	.58	
%RSD	208.8	45.53	83.41	355.7	26.17	.8487	
#1	.2677	-4.561	1.996	-1.081	2.713	68.62	

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#2	-1.392	-2.340	7.738	2.507	3.946	67.80
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	936	--	--	--	--	--	--
SDev	7.000374	--	--	--	--	--	--
%RSD	.7477435	--	--	--	--	--	--
#1	931	--	--	--	--	--	--
#2	941	--	--	--	--	--	--

Method: SW846 Sample Name: 91163 Operator:
Run Time: 10/27/98 22:55:21
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	167.0	-2.202	9.136	-.0892	-.2611	9204.	2.200
SDev	.2	.156	.046	.0036	.2180	30.	.245
%RSD	.1300	7.094	.4996	4.001	83.49	.3259	11.12
#1	167.1	-2.092	9.168	-.0867	-.1069	9226.	2.027
#2	166.8	-2.313	9.104	-.0917	-.4152	9183.	2.373
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.6750	2.411	3744.	1229.	7.667	1.573	1907.
SDev	.0761	.011	18.	1.	.054	.469	21.
%RSD	11.27	.4733	.4925	.1127	.7047	29.83	1.092
#1	-.7288	2.403	3757.	1230.	7.706	1.904	1921.
#2	-.6213	2.419	3731.	1228.	7.629	1.241	1892.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.0073	11390.	-.6094	1.164	9.433	-.0857	28.89
SDev	.9465	78.	.6433	.533	.032	.3385	1.96
%RSD	13030.	.6873	105.6	45.76	.3425	395.2	6.774
#1	.6620	11450.	-.1545	1.541	9.455	-.3250	27.51
#2	-.6766	11330.	-1.064	.7874	9.410	.1537	30.28

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	82.47	1.939	.9985	-.9286	-1.878	-3.295	1.415
SDev	.33	.971	.3479	.5179	3.495	1.402	2.404
%RSD	.4036	50.05	34.84	55.77	186.1	42.56	169.9
#1	82.70	1.253	.7525	-1.295	.5937	-2.303	-.2848
#2	82.23	2.626	1.245	-.5624	-4.349	-4.286	3.116

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	-2.115	-4.437	-1.033	-4.009	-.8268	73.41
SDev	.424	1.134	1.939	1.707	4.3880	2.25
%RSD	20.04	25.57	187.7	42.58	530.7	3.058
#1	-1.815	-3.635	.3378	-2.802	2.276	75.00
#2	-2.415	-5.239	-2.404	-5.216	-3.930	71.83

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	931	--	--	--	--	--	--
SDev	6.116491	--	--	--	--	--	--
%RSD	.6567515	--	--	--	--	--	--
#1	927	--	--	--	--	--	--
#2	936	--	--	--	--	--	--

Method: SW846 Sample Name: 91164 Operator:
Run Time: 10/27/98 23:00:43
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	6888.	3.332	131.4	.2148	.2582	166700.	18.29
SDev	42.	.162	.1	.0042	.0392	687.	.50
%RSD	.6167	4.871	.1098	1.951	15.19	.4125	2.722
#1	6919.	3.217	131.5	.2178	.2860	167200.	18.64
#2	6858.	3.447	131.3	.2118	.2305	166200.	17.94

306161

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.601	5.406	3647.	4565.	161.3	7.657	2928.
SDev	.119	.262	17.	24.	.8	.007	63.
%RSD	4.586	4.838	.4765	.5287	.4748	.0873	2.158
#1	2.685	5.222	3659.	4582.	161.8	7.652	2973.
#2	2.516	5.591	3634.	4548.	160.7	7.662	2883.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.0606	8639.	.1596	13.65	32.55	4.615	246.1
SDev	.1318	58.	.5721	.80	.32	.181	1.7
%RSD	217.7	.6690	358.5	5.862	.9802	3.932	.7105
#1	.1538	8680.	.5641	14.22	32.78	4.744	244.9
#2	-.0327	8598.	-.2450	13.08	32.33	4.487	247.4

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	1713.	1.689	200.8	1.862	1.190	-.3355	2.630
SDev	4.	.046	4.4	.952	1.903	.5093	.837
%RSD	.2359	2.706	2.205	51.12	159.9	151.8	31.85
#1	1716.	1.721	203.9	1.189	-.1557	.0247	2.037
#2	1710.	1.657	197.7	2.534	2.536	-.6956	3.222

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	1.462	1.484	-4.006	-2.120	2.830	32.51
SDev	1.009	1.649	1.774	2.556	4.129	1.28
%RSD	68.99	111.1	44.29	120.6	145.9	3.928
#1	.7488	2.650	-5.260	-.3128	-.0901	33.42
#2	2.175	.3179	-2.751	-3.927	5.749	31.61

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	936	--	--	--	--	--	--
SDev	11.17228	--	--	--	--	--	--
%RSD	1.192982	--	--	--	--	--	--
#1	929	--	--	--	--	--	--
#2	944	--	--	--	--	--	--

Method: SW846 Sample Name: 91165 Operator:
Run Time: 10/27/98 23:06:05
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-32.06	-1.836	-.5022	-.0753	-.2076	-8.002	1.074
SDev	3.41	.938	.0585	.0151	.0611	4.780	.001
%RSD	10.63	51.07	11.64	20.08	29.42	59.74	.0945
#1	-29.65	-1.173	-.4608	-.0646	-.1644	-4.622	1.073
#2	-34.47	-2.499	-.5435	-.0860	-.2508	-11.38	1.075
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.6441	.1239	-5.052	-33.51	.1456	.6671	378.3
SDev	.0743	.2002	6.281	2.16	.0696	.1592	5.0
%RSD	11.53	161.6	124.3	6.440	47.82	23.87	1.315
#1	-.5916	.2654	-.6111	-31.99	.1948	.7797	381.8
#2	-.6967	-.0177	-9.494	-35.04	.0964	.5544	374.8
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.1338	-411.0	-.1409	.2580	3.711	-.9536	5.674
SDev	.4035	118.3	.9729	.3022	.084	.3029	2.367
%RSD	301.6	28.79	690.7	117.1	2.274	31.76	41.72
#1	-.1515	-327.4	-.8288	.4717	3.651	-1.168	4.000
#2	.4191	-494.7	.5471	.0443	3.770	-.7394	7.348
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1

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Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	-.1367	2.587	-.6981	-1.471	-2.451	-2.152	-2.610
SDev	.0597	.076	.9073	.694	1.760	2.621	.733
%RSD	43.64	2.919	130.0	47.17	71.82	121.8	28.07
#1	-.0945	2.640	-.0565	-.9801	-3.696	-.2988	-3.128
#2	-.1789	2.533	-1.340	-1.961	-1.206	-4.005	-2.092
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	-.9180	-3.592	.7056	-3.720	-1.831	4.862
SDev	1.4105	4.701	1.546	3.598	.843	.300
%RSD	153.7	130.9	219.1	96.70	46.06	6.160
#1	.0794	-.2676	-.3875	-6.264	-2.427	4.650
#2	-1.915	-6.916	1.799	-1.176	-1.235	5.074
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	917	--	--	--	--	--	--
SDev	.4065950	--	--	--	--	--	--
%RSD	.0443198	--	--	--	--	--	--
#1	918	--	--	--	--	--	--
#2	917	--	--	--	--	--	--

Method: SW846 Sample Name: 91167 Operator:
Run Time: 10/27/98 23:11:26
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	843.2	1.978	9.657	-.0623	-.2883	16770.	2.100
SDev	12.6	.470	.182	.0208	.0299	219.	.221
%RSD	1.492	23.77	1.880	33.43	10.39	1.308	10.52
#1	834.3	1.646	9.528	-.0476	-.3095	16620.	1.944
#2	852.1	2.311	9.785	-.0771	-.2672	16930.	2.257
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

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Avge	-.0886	1.927	7208.	1849.	44.62	10.09	1534.
SDev	.1911	.767	71.	25.	.44	.23	56.
%RSD	215.6	39.81	.9815	1.341	.9782	2.290	3.648
#1	-.2237	2.470	7158.	1832.	44.31	9.925	1495.
#2	.0465	1.385	7258.	1867.	44.93	10.25	1574.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.6496	15280.	-2.530	5.831	130.9	.9466	32.37
SDev	.2410	535.	.096	.622	1.4	.7849	2.42
%RSD	37.10	3.501	3.780	10.67	1.070	82.92	7.470
#1	-.8201	14900.	-2.462	5.391	129.9	1.502	34.08
#2	-.4792	15660.	-2.597	6.271	131.9	.3916	30.66
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	117.9	.9780	20.28	1.246	-3.222	-.8083	1.599
SDev	1.7	.2687	2.52	1.843	1.546	3.0837	2.154
%RSD	1.412	27.47	12.43	147.8	48.00	381.5	134.6
#1	116.7	1.168	22.06	2.549	-2.128	1.372	.0767
#2	119.1	.7880	18.50	-.0564	-4.315	-2.989	3.122
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	1.057	-.0115	-2.430	-8.235	-.7318	30.70	
SDev	3.837	4.7077	.169	3.645	4.1384	.62	
%RSD	363.1	40800.	6.948	44.26	565.5	2.009	
#1	3.769	3.317	-2.549	-10.81	2.195	30.27	
#2	-1.656	-3.340	-2.311	-5.658	-3.658	31.14	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	935	--	--	--	--	--	--
SDev	11.17232	--	--	--	--	--	--

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%RSD	1.194326	--	--	--	--	--	--
#1	943	--	--	--	--	--	--
#2	928	--	--	--	--	--	--

Method: SW846 Sample Name: 90679 Operator:
Run Time: 10/27/98 23:16:48
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	133.5	-1.215	47.91	-.0536	-.2901	1240.	1.733
SDev	1.7	1.708	.09	.0037	.0543	4.	.355
%RSD	1.273	140.5	.1882	6.972	18.73	.3398	20.50
#1	132.3	-.0078	47.85	-.0510	-.2517	1237.	1.482
#2	134.7	-2.423	47.98	-.0563	-.3285	1243.	1.985
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.3782	.5415	305.2	176.7	19.82	1.768	1814.
SDev	.1502	.3751	2.5	1.1	.09	.354	36.
%RSD	39.72	69.28	.8058	.6291	.4790	20.03	1.987
#1	-.2720	.8068	307.0	177.5	19.75	2.018	1788.
#2	-.4845	.2762	303.5	175.9	19.88	1.517	1839.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.1314	2784.	-1.227	.7153	16.92	-.8788	8.961
SDev	.2184	140.	2.481	.5632	.07	.1957	.600
%RSD	166.2	5.013	202.1	78.73	.4246	22.28	6.699
#1	.0230	2685.	.5270	1.114	16.87	-1.017	9.386
#2	-.2858	2882.	-2.982	.3171	16.97	-.7404	8.537
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	315.0	3.016	1.168	-.9031	-1.424	-1.547	-3.931
SDev	1.2	.548	.655	1.1237	2.329	1.854	.783
%RSD	.3653	18.17	56.09	124.4	163.5	119.9	19.92
#1	314.2	3.403	1.631	-1.698	.2226	-2.858	-4.484

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#2	315.8	2.628	.7046	-.1085	-3.071	-.2357	-3.377
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	.5920	-1.351	-1.966	-5.307	.5009	9.971	
SDev	1.294	4.102	2.647	.840	3.073	.587	
%RSD	218.5	303.7	134.7	15.82	613.5	5.885	
#1	-.3229	-4.251	-.0938	-4.713	2.674	9.556	
#2	1.507	1.550	-3.838	-5.901	-1.672	10.39	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	918	--	--	--	--	--	--
SDev	4.277988	--	--	--	--	--	--
%RSD	.4658848	--	--	--	--	--	--
#1	921	--	--	--	--	--	--
#2	915	--	--	--	--	--	--

Method: SW846 Sample Name: 90680 Operator:
Run Time: 10/27/98 23:22:10
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-37.67	-.7869	-.5190	-.0614	-.3494	-27.81	.9520
SDev	5.45	1.0879	.0778	.0231	.1190	.45	.2187
%RSD	14.46	138.3	14.98	37.57	34.05	1.618	22.97
#1	-33.82	-.0176	-.4640	-.0777	-.4335	-28.13	1.107
#2	-41.52	-1.556	-.5740	-.0451	-.2653	-27.49	.7974
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.7255	.3166	9.151	-44.73	.0868	1.131	281.1
SDev	.0404	.3100	1.491	.63	.0666	.150	12.3
%RSD	5.571	97.92	16.29	1.399	76.68	13.25	4.363
#1	-.7540	.0974	8.096	-44.29	.0397	1.236	289.7
#2	-.6969	.5359	10.20	-45.17	.1339	1.025	272.4

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.5820	-245.8	1.651	.1209	4.845	-.3168	6.740
SDev	.3022	947.4	1.202	.3333	.279	.4223	1.052
%RSD	51.92	385.5	72.81	275.7	5.765	133.3	15.61
#1	-.7957	424.1	2.501	.3566	5.043	-.0182	5.996
#2	-.3683	-915.7	.8011	-.1148	4.648	-.6154	7.484
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	-.3175	1.611	-.6376	-.4684	-.2124	1.585	-3.258
SDev	.0048	.491	1.5011	.3376	2.0031	2.475	.090
%RSD	1.503	30.50	235.4	72.08	943.1	156.1	2.775
#1	-.3141	1.959	-1.699	-.7072	1.204	3.335	-3.322
#2	-.3209	1.264	.4238	-.2297	-1.629	-.1649	-3.194
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	.9081	2.082	.5638	-6.255	2.791	5.059	
SDev	.4611	1.759	3.909	11.380	2.679	.258	
%RSD	50.78	84.48	693.3	181.9	95.96	5.102	
#1	.5820	3.326	3.328	1.792	.8973	5.242	
#2	1.234	.8383	-2.200	-14.30	4.685	4.877	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	931	--	--	--	--	--	--
SDev	3.464840	--	--	--	--	--	--
%RSD	.3721533	--	--	--	--	--	--
#1	929	--	--	--	--	--	--
#2	933	--	--	--	--	--	--

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Method: SW846 Sample Name: CCV4 Operator:
Run Time: 10/27/98 23:27:32
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	248000.	4880.	10070.	971.0	2450.	125100.	5085.
SDev	1430.	23.	71.	5.0	11.	673.	24.
%RSD	.5769	.4689	.7059	.5187	.4582	.5382	.4769
#1	249000.	4896.	10120.	974.6	2458.	125600.	5102.
#2	246900.	4864.	10020.	967.4	2442.	124600.	5068.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	263600.	5272.	10540.	1054.	2636.	131800.	5272.
Low	236400.	4728.	9455.	946.0	2364.	118200.	4728.

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2486.	12280.	99620.	124500.	5034.	2454.	48920.
SDev	14.	71.	695.	663.	26.	15.	284.
%RSD	.5670	.5751	.6974	.5323	.5262	.6085	.5805
#1	2496.	12330.	100100.	124900.	5053.	2465.	49120.
#2	2476.	12230.	99130.	124000.	5015.	2444.	48720.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2636.	13180.	105400.	131800.	5272.	2636.	52720.
Low	2364.	11820.	94550.	118200.	4728.	2364.	47280.

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1246.	128300.	4890.	2501.	2490.	2500.	2503.
SDev	6.	1011.	28.	12.	12.	8.	11.
%RSD	.4557	.7882	.5736	.4861	.4878	.3184	.4325
#1	1251.	129000.	4910.	2509.	2499.	2506.	2510.
#2	1242.	127600.	4870.	2492.	2482.	2494.	2495.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1318.	131800.	5272.	2636.	2636.	2636.	2636.
Low	1182.	118200.	4728.	2364.	2364.	2364.	2364.

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	5010.	996.8	10010.	9923.	4817.	997.3	9958.
SDev	30.	3.8	58.	59.	30.	2.1	86.
%RSD	.6008	.3837	.5755	.5899	.6129	.2082	.8631
#1	5032.	999.5	10050.	9964.	4838.	995.9	10020.
#2	4989.	994.1	9971.	9881.	4796.	998.8	9897.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5272.	1054.	10540.	10540.	5272.	1054.	
Low	4728.	946.0	9455.	9455.	4728.	946.0	

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Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496

Units						ppb
Avge	9905.	998.1	995.8	4838.	4806.	983.6
SDev	45.	5.9	5.6	32.	28.	6.6
%RSD	.4528	.5910	.5603	.6644	.5871	.6689
#1	9937.	993.9	999.8	4861.	4826.	988.2
#2	9874.	1002.	991.9	4816.	4786.	978.9
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						1054.
Low						946.0

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	914	--	--	--	--	--	--
SDev	9.404554	--	--	--	--	--	--
%RSD	1.028720	--	--	--	--	--	--
#1	908	--	--	--	--	--	--
#2	921	--	--	--	--	--	--

Method: SW846 Sample Name: CCB4 Operator:
Run Time: 10/27/98 23:32:54
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-14.76	1.269	.3170	-.0022	.0147	-41.17	.4737
SDev	.81	.868	.1548	.0003	.1719	.12	.2821
%RSD	5.494	68.36	48.82	13.60	1167.	.2898	59.55
#1	-14.19	1.883	.4265	-.0024	.1363	-41.25	.6731
#2	-15.34	.6558	.2076	-.0020	-.1068	-41.09	.2742
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	4.000	5.000	1.000	1.500	400.0	5.000
Low	-199.0	-4.000	-5.000	-1.000	-1.500	-400.0	-5.000

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.3445	.8368	-12.75	-34.48	-.0871	.0937	328.7
SDev	.4263	1.005	4.58	4.27	.0335	.0533	7.1
%RSD	123.7	120.1	35.92	12.37	38.44	56.89	2.145
#1	-.0431	1.547	-9.510	-31.47	-.1108	.1313	333.7
#2	-.6460	.1263	-15.99	-37.50	-.0635	.0560	323.7
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	5.000	50.00	200.0	5.000	5.000	1000.
Low	-5.000	-5.000	-50.00	-200.0	-5.000	-5.000	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

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Avge	.4437	355.5	-.4450	.5798	.1180	.6454	3.895
SDev	1.062	214.0	.8339	.4093	.1745	.5952	3.442
%RSD	239.3	60.19	187.4	70.59	147.9	92.22	88.37
#1	1.195	506.8	-1.035	.8693	.2413	1.066	1.461
#2	-.3072	204.2	.1446	.2904	-.0054	.2245	6.329
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	1000.	9.900	5.000	15.00	10.00	20.00
Low	-5.000	-1000.	-9.900	-5.000	-9.900	-10.00	-20.00
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	-.0005	-.1544	-.8854	-.8874	-1.196	-.3234	-1.735
SDev	.0343	1.8316	.9222	.0666	1.979	.7618	1.866
%RSD	7446.	1186.	104.2	7.502	165.5	235.6	107.6
#1	.0238	1.141	-.2333	-.9345	-2.596	.2153	-.4153
#2	-.0247	-1.450	-1.538	-.8403	.2035	-.8620	-3.055
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5.000	5.000	5.000	3.000	5.000	10.00	
Low	-3.000	-3.000	-5.000	-3.000	-5.000	-10.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	-.4802	-2.307	3.624	-5.982	1.180	.3347	
SDev	1.0316	.155	2.597	3.486	1.227	1.164	
%RSD	214.8	6.700	71.66	58.27	104.0	347.8	
#1	-1.210	-2.416	5.461	-8.447	.3126	1.158	
#2	.2492	-2.198	1.788	-3.517	2.048	-.4885	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						15.00	
Low						-9.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	937	--	--	--	--	--	--
SDev	1.732420	--	--	--	--	--	--
%RSD	.1848063	--	--	--	--	--	--
#1	936	--	--	--	--	--	--
#2	939	--	--	--	--	--	--

Method: SW846 Sample Name: 90838 Operator:
Run Time: 10/27/98 23:38:16
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

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Avge	10220.	5.999	606.2	4.537	17.55	94150.	364.7
SDev	24.	1.216	2.0	.004	.17	128.	.1
%RSD	.2381	20.26	.3292	.0857	.9813	.1362	.0188
#1	10200.	5.140	604.7	4.534	17.42	94060.	364.8
#2	10230.	6.859	607.6	4.540	17.67	94240.	364.7
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	25.34	230.7	152700.	41510.	794.5	122.8	H109100.
SDev	.03	.3	998.	.	.3	.4	43.
%RSD	.1290	.1386	.6535	.0008	.0367	.3373	.0392
#1	25.32	230.5	152000.	41510.	794.7	123.1	H109100.
#2	25.36	231.0	153400.	41510.	794.2	122.5	H109200.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.1691	H260800.	-1.854	21.21	H5786.	157.8	1917.
SDev	.0634	840.	4.882	.07	11.	1.8	8.
%RSD	37.50	.3220	263.3	.3250	.1925	1.154	.4313
#1	.2139	H260200.	-5.306	21.26	H5794.	156.5	1911.
#2	.1242	H261400.	1.598	21.16	H5778.	159.1	1923.
Errors	LC Pass	LC High	LC Pass	LC Pass	LC High	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	740.1	9.514	9.113	303.9	-3.389	1.492	304.3
SDev	2.2	.669	1.472	1.2	1.801	.606	.8
%RSD	.2941	7.034	16.16	.3817	53.14	40.61	.2605
#1	738.6	9.041	8.071	304.7	-4.662	1.063	304.9
#2	741.6	9.988	10.15	303.1	-2.116	1.920	303.8
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	303.7	6.458	-8.482	-8.815	-.6927	H22710.	
SDev	1.3	1.031	.245	4.130	.6377	7.	
%RSD	.4423	15.96	2.894	46.85	92.05	.0306	
#1	304.6	5.729	-8.308	-11.74	-1.144	H22710.	

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#2	302.7	7.187	-8.655	-5.895	-.2418	H22720.

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC High
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	912	--	--	--	--	--	--
SDev	.7778434	--	--	--	--	--	--
%RSD	.0852735	--	--	--	--	--	--
#1	912	--	--	--	--	--	--
#2	913	--	--	--	--	--	--

Method: SW846 Sample Name: 90839 Operator:
Run Time: 10/27/98 23:43:38
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	30140.	10.56	209.2	1.427	1.015	159000.	154.7
SDev	21.	1.30	.1	.000	.069	82.	.4
%RSD	.0704	12.27	.0304	.0203	6.817	.0515	.2344
#1	30150.	9.645	209.2	1.427	1.063	159100.	154.4
#2	30120.	11.48	209.1	1.427	.9657	158900.	154.9
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	11.47	263.0	37490.	11660.	695.6	85.23	11440.
SDev	.06	.3	39.	7.	.6	.54	1.
%RSD	.5667	.1260	.1038	.0567	.0871	.6289	.0066
#1	11.42	263.2	37520.	11670.	696.0	84.85	11440.
#2	11.51	262.8	37460.	11660.	695.1	85.61	11440.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.036	H336400.	-4.853	64.17	684.0	37.86	H49800.
SDev	.213	245.	.091	.13	1.4	.47	214.
%RSD	20.59	.0728	1.878	.2000	.2001	1.237	.4296
#1	1.187	H336300.	-4.789	64.08	685.0	38.19	H49950.
#2	.8853	H336600.	-4.918	64.26	683.0	37.53	H49650.

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Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	924.4	10.82	927.6	92.48	-2.313	1.092	98.32
SDev	.1	2.37	6.0	.70	2.487	.844	1.34
%RSD	.0099	21.88	.6485	.7557	107.5	77.25	1.361
#1	924.5	9.143	923.4	91.99	-4.072	.4954	99.27
#2	924.3	12.49	931.9	92.98	-.5550	1.688	97.38

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	89.55	-1.224	5.704	-3.528	-1.721	105.4
SDev	1.71	1.444	5.426	2.045	4.749	5.2
%RSD	1.915	118.0	95.12	57.96	276.0	4.914
#1	88.34	-.2030	1.867	-2.082	-5.079	109.1
#2	90.76	-2.245	9.541	-4.974	1.637	101.8

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	890	--	--	--	--	--	--
SDev	.8662317	--	--	--	--	--	--
%RSD	.0973444	--	--	--	--	--	--
#1	889	--	--	--	--	--	--
#2	890	--	--	--	--	--	--

Method: SW846 Sample Name: ICSA2 Operator:
Run Time: 10/27/98 23:49:00
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	486600.	-1.954	4.019	-.1026	-.4486	458600.	.3983
SDev	68.	4.551	.043	.0141	.0831	104.	.1754
%RSD	.0139	232.9	1.068	13.76	18.53	.0228	44.04
#1	486500.	-5.173	3.989	-.0926	-.5074	458600.	.2743
#2	486600.	1.264	4.050	-.1126	-.3898	458700.	.5223

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600000.	10.00	20.00	5.000	3.500	600000.	5.000
Low	400000.	-10.00	-10.00	-5.000	-3.500	400000.	-5.000

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.1068	-1.462	189700.	489300.	1.517	2.018	152.4
SDev	.1306	.261	441.	60.	.042	.544	7.9
%RSD	122.3	17.89	.2322	.0122	2.745	26.95	5.196
#1	.0144	-1.277	190000.	489200.	1.488	2.402	146.8
#2	.1991	-1.646	189400.	489300.	1.547	1.633	158.0

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	20.00	240000.	600000.	10.00	10.00	500.0
Low	-5.000	-10.00	160000.	400000.	-5.000	-5.000	-500.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.2275	607.8	-9.192	3.490	-4.014	-1.434	H22.65
SDev	.3844	137.0	4.629	.491	.010	1.162	7.62
%RSD	169.0	22.55	50.35	14.06	.2419	81.06	33.63
#1	-.4994	510.9	L-12.47	3.143	-4.007	-.6121	H28.04
#2	.0443	704.7	-5.919	3.837	-4.021	-2.256	H17.27

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	10.00	1000.	10.00	10.00	10.00	10.00	15.00
Low	-10.00	-2000.	-10.00	-5.000	-10.00	-5.000	-15.00

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	.5304	1.258	3.821	.9421	-3.452	-2.115	93.51
SDev	.1488	.346	.981	.8178	.533	.634	2.62
%RSD	28.06	27.48	25.66	86.80	15.43	29.99	2.799
#1	.6356	1.502	3.128	1.520	-3.829	-1.666	91.66
#2	.4252	1.013	4.515	.3638	-3.075	-2.563	95.36

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10.00	10.00	10.00	5.000	10.00	10.00	
Low	-5.000	-5.000	-5.000	-5.000	-10.00	-10.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	-45.29	-1.798	-2.775	4.453	-7.412	H21.06
SDev	2.53	1.850	1.802	7.637	3.014	1.01
%RSD	5.595	102.9	64.95	171.5	40.66	4.812
#1	-43.50	-.4899	-4.049	-.9477	-5.281	H21.78
#2	-47.08	-3.107	-1.500	9.853	-9.543	H20.35

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC High
High						15.00
Low						-15.00

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	900	--	--	--	--	--	--
SDev	.5833717	--	--	--	--	--	--
%RSD	.0648236	--	--	--	--	--	--
#1	900	--	--	--	--	--	--
#2	900	--	--	--	--	--	--

Method: SW846 Sample Name: ICSAB2 Operator:
Run Time: 10/27/98 23:54:22
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	497600.	98.92	106.2	98.92	94.37	466700.	97.78
SDev	62.	3.29	.1	.02	.04	342.	.36
%RSD	.0124	3.330	.0509	.0247	.0472	.0732	.3673
#1	497500.	101.3	106.2	98.90	94.34	466500.	98.03
#2	497600.	96.60	106.1	98.94	94.40	467000.	97.53
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600000.	120.0	120.0	120.0	120.0	600000.	120.0
Low	400000.	80.00	80.00	80.00	80.00	400000.	80.00

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	95.48	96.91	190800.	510200.	99.33	95.08	9876.
SDev	.07	.90	470.	433.	.16	.80	17.
%RSD	.0717	.9250	.2463	.0848	.1658	.8419	.1677
#1	95.43	96.28	191200.	509900.	99.21	95.64	9865.
#2	95.53	97.55	190500.	510500.	99.44	94.51	9888.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	120.0	120.0	240000.	600000.	120.0	120.0	12000.
Low	80.00	80.00	160000.	400000.	80.00	80.00	8000.

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	102.6	11800.	87.61	102.2	96.90	99.68	L10.61
SDev	1.0	224.	4.65	.8	.32	.72	.71
%RSD	.9556	1.899	5.305	.7577	.3306	.7261	6.692
#1	101.9	11650.	90.89	101.7	97.13	100.2	L10.11
#2	103.3	11960.	84.32	102.8	96.67	99.17	L11.11
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	120.0	12000.	120.0	120.0	120.0	120.0	120.0
Low	80.00	8000.	80.00	80.00	80.00	80.00	80.00

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1

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Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	104.9	97.73	104.2	95.18	92.01	98.31	188.2
SDev	.0	3.21	.0	1.45	2.22	3.15	2.0
%RSD	.0382	3.280	.0145	1.528	2.416	3.201	1.044
#1	104.9	100.00	104.3	96.21	90.44	96.09	189.5
#2	104.8	95.47	104.2	94.15	93.58	100.5	186.8
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	120.0	120.0	120.0	120.0	120.0	120.0	
Low	80.00	80.00	80.00	80.00	80.00	80.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	48.75	96.76	101.4	94.52	90.75	115.1	
SDev	1.20	8.68	7.9	.50	3.58	2.3	
%RSD	2.462	8.975	7.835	.5255	3.946	1.977	
#1	49.60	90.62	107.0	94.87	88.22	116.7	
#2	47.90	102.9	95.78	94.17	93.28	113.5	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						120.0	
Low						80.00	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	905	--	--	--	--	--	--
SDev	.5480250	--	--	--	--	--	--
%RSD	.0605578	--	--	--	--	--	--
#1	905	--	--	--	--	--	--
#2	905	--	--	--	--	--	--

Method: SW846 Sample Name: CCV5 Operator:
Run Time: 10/27/98 23:59:44
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	249500.	4927.	10100.	976.9	2466.	125100.	5120.
SDev	74.	33.	15.	2.2	10.	121.	6.
%RSD	.0297	.6613	.1497	.2207	.4154	.0968	.1207
#1	249500.	4950.	10080.	978.5	2474.	125200.	5125.
#2	249400.	4904.	10110.	975.4	2459.	125000.	5116.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	263600.	5272.	10540.	1054.	2636.	131800.	5272.
Low	236400.	4728.	9455.	946.0	2364.	118200.	4728.
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

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Avge	2493.	12430.	98340.	124000.	5074.	2463.	49410.
SDev	5.	45.	304.	201.	9.	3.	26.
%RSD	.1808	.3637	.3092	.1621	.1827	.1107	.0536
#1	2496.	12460.	98130.	124100.	5080.	2465.	49430.
#2	2490.	12400.	98560.	123800.	5067.	2461.	49390.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2636.	13180.	105400.	131800.	5272.	2636.	52720.
Low	2364.	11820.	94550.	118200.	4728.	2364.	47280.
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1259.	128200.	4904.	2528.	2515.	2525.	2570.
SDev	3.	55.	12.	7.	8.	4.	5.
%RSD	.2058	.0428	.2435	.2962	.3042	.1534	.2108
#1	1261.	128100.	4913.	2533.	2520.	2528.	2566.
#2	1257.	128200.	4896.	2523.	2509.	2523.	2574.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1318.	131800.	5272.	2636.	2636.	2636.	2636.
Low	1182.	118200.	4728.	2364.	2364.	2364.	2364.
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	5041.	1003.	10050.	9966.	4858.	1008.	9986.
SDev	4.	4.	8.	14.	4.	3.	38.
%RSD	.0781	.3612	.0813	.1381	.0809	.3023	.3854
#1	5038.	1006.	10040.	9956.	4860.	1006.	10010.
#2	5044.	1001.	10050.	9976.	4855.	1010.	9959.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5272.	1054.	10540.	10540.	5272.	1054.	
Low	4728.	946.0	9455.	9455.	4728.	946.0	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	9956.	1006.	1011.	4876.	4848.	996.3	
SDev	40.	6.	3.	32.	10.	3.0	
%RSD	.4002	.6260	.3428	.6478	.2038	.2978	
#1	9928.	1002.	1013.	4899.	4841.	998.4	
#2	9984.	1010.	1009.	4854.	4855.	994.2	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						1054.	
Low						946.0	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	911	--	--	--	--	--	--
SDev	1.290479	--	--	--	--	--	--

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%RSD	.1416882	--	--	--	--	--	--
#1	910	--	--	--	--	--	--
#2	912	--	--	--	--	--	--

Method: SW846 Sample Name: CC85 Operator:
Run Time: 10/28/98 00:05:06
Comment: 5032T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	17.59	-.5293	.6970	.0522	.2125	-2.305	.3426
SDev	6.63	.2710	.1025	.0258	.0807	5.048	.0913
%RSD	37.70	51.19	14.71	49.42	37.97	219.0	26.64
#1	22.28	-.3377	.7695	.0705	.2696	1.264	.4071
#2	12.90	-.7209	.6246	.0340	.1555	-5.874	.2781
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	4.000	5.000	1.000	1.500	400.0	5.000
Low	-199.0	-4.000	-5.000	-1.000	-1.500	-400.0	-5.000

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.1745	1.104	10.06	1.734	.1488	.3708	261.0
SDev	.3720	.094	30.59	13.79	.1054	.3716	22.7
%RSD	213.2	8.529	304.2	794.9	70.81	100.2	8.689
#1	.0886	1.037	31.69	11.48	.2234	.6336	277.0
#2	-.4376	1.170	-11.58	-8.014	.0743	.1081	244.9
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	5.000	50.00	200.0	5.000	5.000	1000.
Low	-5.000	-5.000	-50.00	-200.0	-5.000	-5.000	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.2623	-79.38	-1.470	1.030	.2372	1.551	5.758
SDev	.6396	68.33	.281	.472	.0414	1.055	2.872
%RSD	243.8	86.08	19.14	45.79	17.44	68.02	49.88
#1	.1900	-127.7	-1.271	1.364	.2665	2.297	7.789
#2	-.7146	-31.06	-1.669	.6967	.2080	.8051	3.727
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	1000.	9.900	5.000	15.00	10.00	20.00
Low	-5.000	-1000.	-9.900	-5.000	-9.900	-10.00	-20.00

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	.2294	-.2160	.3796	-.5165	-.4271	-2.118	.8151
SDev	.0443	1.6225	.8675	.4935	3.6771	1.531	.0817
%RSD	19.30	751.3	228.5	95.55	860.9	72.28	10.02
#1	.2607	.9313	.9930	-.8655	-3.027	-1.035	.8729

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#2	.1981	-1.363	-.2338	-.1675	2.173	-3.200	.7574

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5.000	5.000	5.000	3.000	5.000	10.00	
Low	-3.000	-3.000	-5.000	-3.000	-5.000	-10.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	-1.195	-4.915	3.460	.7526	-1.029	6.021
SDev	.782	2.172	.246	10.83	.107	.616
%RSD	65.44	44.19	7.118	1439.	10.39	10.23
#1	-1.748	-3.379	3.634	-6.904	-1.104	6.457
#2	-.6420	-6.450	3.285	8.409	-.9532	5.585
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						15.00
Low						-9.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	945	--	--	--	--	--	--
SDev	5.126524	--	--	--	--	--	--
%RSD	.5423889	--	--	--	--	--	--
#1	942	--	--	--	--	--	--
#2	949	--	--	--	--	--	--

Method: SW846 Standard: STD1-Blank

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Avge	.4477	.0307	.0161	-.0298	.0565	.5499	.0282
SDev	.0157	.0345	.0010	.0006	.0273	.0165	.0080
%RSD	3.508	112.4	6.195	2.013	48.26	2.998	28.49
#1	.4588	.0551	.0154	-.0302	.0758	.5616	.0339
#2	.4366	.0063	.0168	-.0294	.0372	.5383	.0225

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Avge	.0111	.0706	.0221	.1602	.0111	.0259	9.658
SDev	.0068	.0050	.0046	.0057	.0008	.0173	.089
%RSD	61.23	7.093	20.95	3.553	7.494	66.97	.9240
#1	.0159	.0742	.0254	.1642	.0117	.0381	9.721
#2	.0063	.0671	.0189	.1562	.0105	.0136	9.595

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Avge	-.1762	.0185	-.0086	.0025	.1041	.0206	.4082
SDev	.0102	.0188	.0537	.0000	.0064	.0158	.0147
%RSD	5.793	101.4	622.1	1.484	6.131	76.69	3.592
#1	-.1690	.0318	-.0466	.0024	.1086	.0318	.4185
#2	-.1834	.0052	.0294	.0025	.0996	.0094	.3978

GW 10/28/98

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File : 7096E1.WSL

File Record	Laboratory Sample Name	Customer/EPA Sample Name	Type	Matrix	Instrument Dil.	Date	Time	Flags
1	STD1-BLANK		3		1.0	10/28/98	14:09:00	
2	STD2		3		1.0	10/28/98	14:13:00	
3	STD3		3		1.0	10/28/98	14:18:00	
4	STD4		3		1.0	10/28/98	14:22:00	
5	HSA		0		1.0	10/28/98	14:29:00	
6	ICV/CCV1		0		1.0	10/28/98	14:33:00	
7	ICB/CCB1		0		1.0	10/28/98	14:37:00	
8	ICSA1		0		1.0	10/28/98	14:41:00	
9	ICSAB1		0		1.0	10/28/98	14:45:00	
10	MCL		0		1.0	10/28/98	14:49:00	
11	INT-20		0		1.0	10/28/98	14:54:00	
12	BSW102798		0		1.0	10/28/98	14:58:00	
13	PBW102798		0		1.0	10/28/98	15:02:00	
14	LCSW102798		0		1.0	10/28/98	15:06:00	
15	91152D		0		1.0	10/28/98	15:10:00	
16	91152		0		1.0	10/28/98	15:14:00	
17	91152L		0		1.0	10/28/98	15:18:00	
18	CCV2		0		1.0	10/28/98	15:22:00	
19	CCB2		0		1.0	10/28/98	15:27:00	
20	91152MS		0		1.0	10/28/98	15:31:00	
21	91152MSD		0		1.0	10/28/98	15:35:00	
22	91152A		0		1.0	10/28/98	15:39:00	
23	91153		0		1.0	10/28/98	15:43:00	
24	91154		0		1.0	10/28/98	15:47:00	
25	91155		0		1.0	10/28/98	15:51:00	
26	91156		0		1.0	10/28/98	15:55:00	
27	91157		0		1.0	10/28/98	16:00:00	
28	91158		0		1.0	10/28/98	16:04:00	
29	CCV3		0		1.0	[illegible]	[illegible]	
30	CCB3		0		1.0	10/28/98	16:12:00	
31	91159		0		1.0	10/28/98	16:16:00	
32	91160		0		1.0	10/28/98	16:20:00	
33	91161		0		2.0	10/28/98	16:24:00	
34	91162		0		1.0	10/28/98	16:29:00	
35	91163		0		1.0	10/28/98	16:33:00	
36	91164		0		1.0	10/28/98	16:37:00	
37	91165		0		1.0	10/28/98	16:41:00	
38	91167		0		1.0	10/28/98	16:45:00	
39	90679		0		1.0	10/28/98	16:49:00	
40	90680		0		1.0	10/28/98	16:53:00	
41	CCV4		0		1.0	10/28/98	16:57:00	
42	CCB4		0		1.0	10/28/98	17:02:00	
43	90838		0		4.0	10/28/98	17:06:00	
44	90839		0		4.0	10/28/98	17:10:00	
45	ICSA2		0		1.0	10/28/98	17:14:00	
46	ICSAB2		0		1.0	10/28/98	17:18:00	
47	CCV5		0		1.0	10/28/98	17:22:00	
48	CCB5		0		1.0	10/28/98	17:26:00	

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Analysis Report Summary Thu 10-29-98 08:15:41 AM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	HSA	7096E1	SW846	10/28/98	14:29		S	CONC
2	ICV/CCV1	7096E1	SW846	10/28/98	14:33		S	CONC
3	ICB/CCB1	7096E1	SW846	10/28/98	14:37		S	CONC
4	ICSA1	7096E1	SW846	10/28/98	14:41		S	CONC
5	ICSAB1	7096E1	SW846	10/28/98	14:45		S	CONC
6	MCL	7096E1	SW846	10/28/98	14:49		S	CONC
7	INT-20	7096E1	SW846	10/28/98	14:54		S	CONC
8	BSW102798	7096E1	SW846	10/28/98	14:58		S	CONC
9	PBW102798	7096E1	SW846	10/28/98	15:02		S	CONC
10	LCSW102798	7096E1	SW846	10/28/98	15:06		S	CONC
11	91152D	7096E1	SW846	10/28/98	15:10		S	CONC
12	91152	7096E1	SW846	10/28/98	15:14		S	CONC
13	91152L	7096E1	SW846	10/28/98	15:18		S	CONC
14	CCV2	7096E1	SW846	10/28/98	15:22		S	CONC
15	CCB2	7096E1	SW846	10/28/98	15:27		S	CONC
16	91152MS	7096E1	SW846	10/28/98	15:31		S	CONC
17	91152MSD	7096E1	SW846	10/28/98	15:35		S	CONC
18	91152A	7096E1	SW846	10/28/98	15:39		S	CONC
19	91153	7096E1	SW846	10/28/98	15:43		S	CONC
20	91154	7096E1	SW846	10/28/98	15:47		S	CONC
21	91155	7096E1	SW846	10/28/98	15:51		S	CONC
22	91156	7096E1	SW846	10/28/98	15:55		S	CONC
23	91157	7096E1	SW846	10/28/98	16:00		S	CONC
24	91158	7096E1	SW846	10/28/98	16:04		S	CONC
25	CCV3	7096E1	SW846	10/28/98	16:08		S	CONC
26	CCB3	7096E1	SW846	10/28/98	16:12		S	CONC
27	91159	7096E1	SW846	10/28/98	16:16		S	CONC
28	91160	7096E1	SW846	10/28/98	16:20		S	CONC
29	91161-2X	7096E1	SW846	10/28/98	16:24		S	CONC
30	91162	7096E1	SW846	10/28/98	16:29		S	CONC
31	91163	7096E1	SW846	10/28/98	16:33		S	CONC
32	91164	7096E1	SW846	10/28/98	16:37		S	CONC
33	91165	7096E1	SW846	10/28/98	16:41		S	CONC
34	91167	7096E1	SW846	10/28/98	16:45		S	CONC
35	90679	7096E1	SW846	10/28/98	16:49		S	CONC
36	90680	7096E1	SW846	10/28/98	16:53		S	CONC
37	CCV4	7096E1	SW846	10/28/98	16:57		S	CONC
38	CCB4	7096E1	SW846	10/28/98	17:02		S	CONC
39	90838-4X	7096E1	SW846	10/28/98	17:06		S	CONC
40	90839-4X	7096E1	SW846	10/28/98	17:10		S	CONC
41	ICSA2	7096E1	SW846	10/28/98	17:14		S	CONC
42	ICSAB2	7096E1	SW846	10/28/98	17:18		S	CONC
43	CCV5	7096E1	SW846	10/28/98	17:22		S	CONC
44	CCB5	7096E1	SW846	10/28/98	17:26		S	CONC

10-29-98

KN

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#	Sample Name	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288
1	HSA	39200.	9915.	9796.	39300.	974.6	4956.
2	ICV/CCV1	20330.	5016.	5033.	19960.	497.3	2512.
3	ICB/CCB1	-5.594	-8.518	-11.19	1.131	.0374	1.095
4	ICSA1	500600.	6.871	6.839	.6602	.0568	-2.068
5	ICSAB1	502800.	1051.	983.4	473.9	483.3	509.2
6	MCL	213.2	112.9	592.3	48.54	3.994	4.631
7	INT-20	42.69	-29.36	10110.	19790.	.9328	-18.89
8	BSW102798	1969.	469.0	1823.	1929.	50.89	45.26
9	PBW102798	-5.883	-13.14	-20.75	-.1437	-.0454	.8423
10	LCSW102798	1056.	968.1	989.2	951.9	1029.	993.0
11	91152D	346.0	-18.06	-11.52	27.44	.1301	.0225
12	91152	382.7	-17.95	-12.57	27.59	.1292	.6334
13	91152L	78.86	-9.046	-11.33	5.506	.0798	.8904
14	CCV2	20320.	5053.	4993.	19870.	496.5	2515.
15	CCB2	-11.91	-16.65	-11.75	.5190	.0169	.8176
16	91152MS	2327.	466.8	1825.	1953.	51.16	44.86
17	91152MSD	2392.	471.0	1921.	1975.	52.09	46.24
18	91152A	2346.	469.5	1897.	1939.	50.80	44.09
19	91153	8937.	-7.119	6.047	56.93	.4042	7.800
20	91154	88.99	-9.563	-1.343	5.663	.0972	.8714
21	91155	747.7	-16.92	1.557	20.83	.1188	1.390
22	91156	473.8	-8.556	-8.381	14.62	.0446	.9867
23	91157	3442.	-4.824	6.747	16.32	.0112	1.525
24	91158	145.6	-2.622	-11.39	27.72	.0809	1.781
25	CCV3	20390.	5115.	5093.	19870.	505.1	2550.
26	CCB3	-17.73	-4.782	-7.789	.6210	-.0143	.3709
27	91159	1311.	-13.47	-4.575	32.59	.0894	2.253
28	91160	42.09	-18.22	2.603	17.95	-.0045	.6315
29	91161-2X	4171.	-17.71	22.25	22.57	.1940	.6493
30	91162	2396.	-15.34	23.78	11.10	.0506	-.4487
31	91163	191.4	-8.931	-4.814	9.008	.0383	1.193
32	91164	7059.	1.101	1.891	129.5	.2626	.8057
33	91165	-.7273	-20.15	-22.09	.0092	-.0133	.4118
34	91167	848.4	-8.328	-13.78	9.908	.0301	.6512
35	90679	201.1	-12.55	-5.879	45.92	.1078	.0426
36	90680	6.827	-16.94	-10.59	.1111	.0293	-.0961
37	CCV4	20310.	5057.	5031.	19810.	499.4	2532.
38	CCB4	-9.350	-4.527	.2752	.4171	.0311	-.2964
39	90838-4X	2519.	-5.845	-11.91	145.3	1.038	5.163
40	90839-4X	7533.	-12.42	-15.76	49.22	.2229	1.545
41	ICSA2	509500.	46.41	11.08	.6765	-.0064	-1.237
42	ICSAB2	509700.	1045.	967.3	481.0	487.2	516.1
43	CCV5	20150.	5060.	4979.	19810.	497.3	2518.
44	CCB5	4.539	-12.27	-13.22	.1622	.0165	-.4394

#	Sample Name	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203
1	HSA	100500.	9778.	9862.	4865.	191100.	19800.
2	ICV/CCV1	50960.	4969.	5059.	2509.	99540.	9901.
3	ICB/CCB1	3.344	-.4243	1.865	-4.126	-4.080	10.40
4	ICSA1	511200.	-4.845	-.4031	9.920	184600.	3.240
5	ICSAB1	518800.	478.5	496.4	508.9	185700.	487.8

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#	Sample Name	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203
6	MCL	5083.	20.25	52.23	16.12	205.7	103.9
7	INT-20	1.678	20090.	20180.	19760.	-21.80	-1.296
8	BSW10279S	19990.	198.1	498.2	243.0	994.1	495.1
9	PBW10279S	15.23	-3.043	3.211	-3.633	-1.911	-3.736
10	LCSW10279S	1025.	1006.	1019.	993.1	1039.	1003.
11	91152D	4985.	-2.278	1.299	-2.401	39.47	-4.811
12	91152	4960.	-.9681	1.620	-5.458	34.59	-3.606
13	91152L	993.1	-.8370	3.301	-4.732	.4271	2.912
14	CCV2	50840.	4955.	5050.	2506.	99200.	9919.
15	CCB2	1.036	-.9510	-1.267	-4.129	-5.489	-.8523
16	91152MS	25100.	198.0	501.5	243.3	1018.	500.1
17	91152MSD	25860.	203.1	513.2	246.6	1047.	508.1
18	91152A	24880.	194.7	496.6	243.0	1026.	516.6
19	91153	7780.	40.58	1.649	16.38	25680.	25.06
20	91154	516.9	-.4452	2.789	-.4122	177.5	9.725
21	91155	3238.	.7098	-.4859	-.8862	771.7	.8977
22	91156	2508.	1.721	1.245	1.247	993.4	5.852
23	91157	6158.	16.96	2.680	7.844	8194.	4.515
24	91158	14790.	-.3766	-.8752	-1.420	64.70	8.938
25	CCV3	52230.	5058.	5146.	2501.	100400.	10100.
26	CCB3	-.4478	-2.404	-1.298	-2.050	-4.948	10.08
27	91159	17730.	3.560	.1432	-1.141	2276.	-2.480
28	91160	484.9	1.856	1.339	.3282	214.7	2.296
29	91161-2X	9221.	7.118	1.590	1.637	5737.	-5.265
30	91162	22200.	-.2836	1.152	.4807	1373.	-.7002
31	91163	9285.	-.2782	1.379	1.167	3747.	8.593
32	91164	H177400.	16.28	3.859	2.631	3729.	12.76
33	91165	26.77	-.6960	-1.075	-.5776	9.033	1.862
34	91167	17820.	.7269	1.057	.1867	7351.	8.005
35	90679	1295.	.6297	3.489	-.7440	312.8	21.96
36	90680	21.16	.1182	2.123	-1.549	18.02	7.479
37	CCV4	51420.	4987.	5096.	2509.	99610.	9979.
38	CCB4	-.6128	-2.012	.9720	-3.881	-7.874	-2.526
39	90838-4X	23490.	87.15	6.895	54.35	37840.	53.70
40	90839-4X	41070.	39.86	3.186	61.02	9213.	19.52
41	ICSA2	521900.	-3.181	1.223	9.135	187000.	2.760
42	ICSAB2	520600.	480.6	496.7	521.9	186900.	499.1
43	CCV5	51360.	4970.	5079.	2503.	99320.	9962.
44	CCB5	4.005	-.5412	-.1470	-3.638	-4.298	3.242

#	Sample Name	Mg2790	Mn2576	Ni2316	K_7664	Se1960	Ag3280
1	HSA	98620.	9858.	9713.	97630.	9760.	4946.
2	ICV/CCV1	50920.	5058.	4979.	48230.	4934.	2521.
3	ICB/CCB1	29.00	.4071	4.521	603.7	3.358	2.790
4	ICSA1	513200.	-2.535	-.4212	-88.26	-46.10	-3.542
5	ICSAB1	515600.	488.7	476.6	10710.	915.0	517.7
6	MCL	5042.	19.75	53.08	9430.	405.0	19.87
7	INT-20	53.32	20350.	20130.	347.3	-.5659	11.34
8	BSW10279S	19740.	487.9	497.7	18860.	1905.	48.81
9	PBW10279S	12.42	.5114	1.574	375.4	-1.006	-3.035
10	LCSW10279S	1013.	1001.	1007.	9079.	979.7	953.6
11	91152D	1391.	25.66	3.949	809.1	-6.048	-4.550

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#	Sample Name	Mg2790	Mn2576	Ni2316	K_7664	Se1960	Ag3280
12	91152	1392.	25.46	-.2070	944.4	-26.76	-1.300
13	91152L	285.7	5.345	3.664	647.6	5.075	-.8666
14	CCV2	50900.	5066.	4970.	48640.	4928.	2529.
15	CCB2	.9043	.1470	1.427	36.43	-3.289	-.8891
16	91152MS	21240.	516.3	496.2	19730.	1922.	50.03
17	91152MSD	21830.	529.7	505.1	20000.	1983.	52.15
18	91152A	21070.	514.5	494.9	19670.	1961.	47.98
19	91153	1880.	63.78	5.153	1002.	-9.423	-1.745
20	91154	277.9	6.102	4.578	965.4	-13.93	.3406
21	91155	1429.	48.10	2.475	695.0	4.556	-1.676
22	91156	712.2	16.02	6.431	536.9	2.536	1.454
23	91157	1024.	61.54	6.104	779.3	5.193	-.9739
24	91158	2517.	25.58	2.052	1947.	-12.45	-1.416
25	CCV3	51490.	5165.	5072.	48420.	4970.	2540.
26	CCB3	13.29	.0942	.1296	-35.58	-9.364	-.2027
27	91159	2506.	6.925	1.551	2042.	-16.70	-.4027
28	91160	215.4	8.546	3.753	1441.	8.170	1.163
29	91161-2X	1987.	116.4	4.563	1837.	.0154	-.6218
30	91162	2947.	7.290	8.003	2943.	.0795	-1.540
31	91163	1312.	8.166	5.364	1793.	1.671	.2128
32	91164	4851.	162.2	9.489	3017.	-6.534	-2.156
33	91165	21.57	.7211	3.490	301.6	-9.526	-.8837
34	91167	2002.	46.34	8.836	1109.	13.17	1.451
35	90679	238.9	20.26	5.079	2267.	6.279	1.431
36	90680	4.148	.6717	4.345	110.2	-5.523	1.009
37	CCV4	51100.	5121.	5008.	49310.	4981.	2528.
38	CCB4	4.292	-.0611	1.014	-128.7	4.111	.3284
39	90838-4X	10370.	193.0	32.08	26640.	-.1155	.3578
40	90839-4X	3032.	173.9	21.44	2924.	18.08	.8546
41	ICSA2	522900.	-3.580	11.84	15.35	-68.85	-1.624
42	ICSAB2	520700.	490.2	477.3	9987.	891.6	524.0
43	CCV5	50770.	5102.	4994.	48320.	4941.	2527.
44	CCB5	9.901	.0966	.0117	-190.1	-5.566	-1.971

#	Sample Name	Na5889	Tl1908	V_2924	Zn2138	B_2496	Mo2020
1	HSA	94900.	9778.	9822.	49060.	9704.	9777.
2	ICV/CCV1	49580.	5047.	5046.	24520.	4886.	4851.
3	ICB/CCB1	-24.19	.7355	3.215	1.248	10.33	10.72
4	ICSA1	90.80	85.06	6.472	-1.809	-8.060	13.76
5	ICSAB1	10020.	1039.	505.3	504.4	478.3	505.9
6	MCL	4994.	515.8	52.93	49.36	103.3	110.5
7	INT-20	-41.55	28.86	20310.	19660.	.9845	19820.
8	BSW102798	20140.	1980.	494.1	488.6	538.2	517.3
9	PBW102798	1.785	-23.76	2.620	3.029	3.600	6.900
10	LCSW102798	L1091.	1029.	1014.	989.6	1013.	1023.
11	91152D	12040.	13.68	-.0023	10.83	27.14	.8360
12	91152	11980.	-14.47	.3319	7.512	24.65	1.627
13	91152L	2424.	1.869	3.053	1.772	5.149	6.110
14	CCV2	49580.	5029.	5042.	24520.	4877.	4839.
15	CCB2	-21.32	-2.678	.3552	.3377	3.817	6.637
16	91152MS	31860.	1970.	495.1	493.4	512.7	497.3
17	91152MSD	32440.	2048.	505.5	510.1	514.1	513.6

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#	Sample Name	Na5889	Tl1908	V_2924	Zn2138	B_2496	Mo2020
18	91152A	31320.	2004.	493.2	488.9	512.4	504.3
19	91153	2310.	10.49	106.1	35.18	21.29	18.01
20	91154	14030.	4.635	1.834	5.673	37.22	5.732
21	91155	5165.	3.560	4.188	170.5	27.38	3.872
22	91156	4035.	9.488	5.544	16.48	35.75	3.707
23	91157	11610.	-8.084	23.03	47.20	71.26	5.934
24	91158	33900.	-16.74	2.570	9.833	30.62	.8386
25	CCV3	48660.	5046.	5117.	24760.	4902.	4929.
26	CCB3	-75.70	2.637	1.493	.9809	3.927	4.790
27	91159	31350.	-5.251	9.817	7.768	66.72	4.906
28	91160	1695.	8.297	3.046	9.287	18.76	5.602
29	91161-2X	47880.	-.0342	33.40	229.5	33.53	5.707
30	91162	52270.	-3.963	3.453	35.28	67.22	4.532
31	91163	9032.	1.110	2.777	8.752	72.98	2.432
32	91164	7212.	-12.70	13.25	29.35	29.17	6.903
33	91165	-11.55	-10.02	1.051	3.058	4.342	.5725
34	91167	12760.	-15.14	5.791	129.2	29.45	2.243
35	90679	1898.	17.32	3.004	16.04	8.481	.2044
36	90680	-10.63	-3.686	.8754	4.409	3.199	-.2181
37	CCV4	49600.	5061.	5077.	24660.	4882.	4875.
38	CCB4	-62.93	20.86	.3053	.8952	2.429	5.318
39	90838-4X	61410.	-10.06	7.159	1423.	5426.	40.98
40	90839-4X	79750.	-.1174	17.43	170.3	25.87	11.53
41	ICSA2	85.27	95.68	9.089	-.8366	-13.76	15.08
42	ICSAB2	10210.	1033.	507.1	509.6	479.1	512.2
43	CCV5	49200.	4987.	5068.	24620.	4873.	4866.
44	CCB5	-69.83	14.20	.4801	.8457	2.604	5.845

#	Sample Name	Sn1899
1	HSA	9964.
2	ICV/CCV1	4952.
3	ICB/CCB1	24.33
4	ICSA1	1.000
5	ICSAB1	992.1
6	MCL	204.7
7	INT-20	9.615
8	BSW102798	L356.1
9	PBW102798	9.288
10	LCSW102798	L12.98
11	91152D	-4.897
12	91152	10.22
13	91152L	13.60
14	CCV2	4934.
15	CCB2	24.73
16	91152MS	359.2
17	91152MSD	381.2
18	91152A	357.9
19	91153	11.70
20	91154	5.005
21	91155	.9172
22	91156	12.30
23	91157	27.74

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#	Sample Name	Sn1899					
24	91158	14.92					
25	CCV3	5042.					
26	CCB3	.7770					
27	91159	5.496					
28	91160	.8656					
29	91161-2X	4.950					
30	91162	18.58					
31	91163	9.796					
32	91164	11.12					
33	91165	10.29					
34	91167	6.318					
35	90679	13.85					
36	90680	4.729					
37	CCV4	5031.					
38	CCB4	9.559					
39	90838-4X	1.947					
40	90839-4X	29.98					
41	ICSA2	5.032					
42	ICSAB2	1023.					
43	CCV5	5034.					
44	CCB5	5.911					

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Method: SW846 Standard: SID1-BLANK

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Avge	.0295	.0056	.0025	.0004	.0066	.0010	.0013
SDev	.0022	.0024	.0015	.0002	.0002	.0001	.0013
%RSD	7.359	43.19	58.45	64.28	2.857	4.562	98.99
#1	.0279	.0073	.0015	.0002	.0065	.0011	.0004
#2	.0310	.0039	.0035	.0005	.0067	.0010	.0023

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	.0004	.0029	.0021	.0012	.0033	.0011	.0006
SDev	.0002	.0023	.0001	.0002	.0004	.0016	.0001
%RSD	47.14	78.93	4.562	20.20	12.86	141.4	15.71
#1	.0005	.0013	.0021	.0010	.0036	.0023	.0007
#2	.0003	.0045	.0020	.0013	.0030	.0000	.0005

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Avge	.0036	-.0176	.0012	-.0033	-.6316	-.0057	.0003
SDev	.0016	.0044	.0011	.0001	.0028	.0019	.0001
%RSD	46.26	25.18	87.91	4.285	.4478	33.28	28.28
#1	.0024	-.0145	.0020	-.0032	-.6296	-.0043	.0004
#2	.0047	-.0207	.0005	-.0034	-.6336	-.0070	.0003

Elem	Zn2138	B_2496	Mo2020	Sn1899
Avge	.0036	.0020	.0003	.0042
SDev	.0005	.0011	.0003	.0056
%RSD	14.27	53.32	84.85	132.4
#1	.0033	.0013	.0001	.0003
#2	.0040	.0028	.0005	.0081

Method: SW846 Standard: SID2

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Avge	.7679	.2630	.2371	2.589	.2530	.3167	2.013
SDev	.0059	.0011	.0057	.023	.0015	.0022	.011
%RSD	.7735	.4123	2.386	.8885	.5777	.6846	.5667
#1	.7637	.2622	.2331	2.573	.2519	.3152	2.005
#2	.7721	.2637	.2411	2.605	.2540	.3183	2.021

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	.4099	1.055	.1358	6.323	.4448	1.065	.6406
SDev	.0013	.003	.0016	.049	.0031	.006	.0034
%RSD	.3220	.3217	1.146	.7672	.6995	.5932	.5372
#1	.4089	1.053	.1347	6.288	.4426	1.060	.6381
#2	.4108	1.058	.1369	6.357	.4470	1.069	.6430

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Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Avge	1.159	.1696	.1709	.1162	2.247	.2269	.2133
SDev	.006	.0129	.0075	.0007	.027	.0018	.0007

#1	1.155	.1787	.1655	.1157	2.228	.2281	.2128
#2	1.163	.1605	.1762	.1167	2.267	.2256	.2138

Elem	Zn2138	B_2496	Mo2020	Sn1899
Avge	6.276	.5822	.2556	.3924
SDev	.034	.0032	.0012	.0034
%RSD	.5393	.5506	.4611	.8769
#1	6.252	.5799	.2547	.3900
#2	6.300	.5845	.2564	.3949

Method: SW846 Standard: STD3

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Avge	3.754	1.307	1.191	13.10	1.228	1.595	10.12
SDev	.009	.002	.000	.01	.005	.011	.09
%RSD	.2512	.1407	.0277	.1014	.3915	.6945	.8967
#1	3.747	1.308	1.191	13.10	1.225	1.587	10.06
#2	3.760	1.305	1.190	13.11	1.232	1.603	10.19

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	2.018	5.241	.6796	30.79	2.204	5.361	3.203
SDev	.012	.035	.0017	.11	.013	.014	.020
%RSD	.6168	.6719	.2567	.3419	.6075	.2559	.6226
#1	2.009	5.216	.6808	30.72	2.194	5.352	3.189
#2	2.027	5.266	.6783	30.87	2.213	5.371	3.217

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Avge	5.660	.9225	.8408	.6042	14.04	1.152	1.063
SDev	.014	.0154	.0012	.0022	.09	.004	.005
%RSD	.2532	1.666	.1458	.3667	.6267	.3192	.4700
#1	5.650	.9333	.8399	.6027	14.10	1.149	1.060
#2	5.670	.9116	.8417	.6058	13.97	1.154	1.067

Elem	Zn2138	B_2496	Mo2020	Sn1899
Avge	31.52	2.904	1.267	1.941
SDev	.15	.006	.008	.016
%RSD	.4642	.1964	.6065	.8403
#1	31.42	2.900	1.261	1.930
#2	31.62	2.908	1.272	1.953

Method: SW846 Standard: STD4

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Avge	7.460	2.613	2.349	26.38	2.410	3.184	20.26
SDev	.019	.014	.012	.11	.003	.004	.07
%RSD	.2610	.5213	.4996	.4324	.1448	.1125	.3495
#1	7.474	2.623	2.358	26.46	2.412	3.181	20.21
#2	7.447	2.604	2.341	26.30	2.407	3.186	20.31

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Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	3.967	10.40	1.354	59.77	4.353	10.72	6.384
SDev	.004	.02	.005	.07	.005	.04	.003
%RSD	.0939	.1582	.3865	.1094	.1159	.3664	.0436
#1	3.964	10.39	1.357	59.82	4.350	10.74	6.382
#2	3.969	10.41	1.350	59.72	4.357	10.69	6.386

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Avge	11.07	1.924	1.683	1.218	28.23	2.268	2.117
SDev	.02	.003	.004	.003	.11	.009	.001
%RSD	.1648	.1593	.2101	.2283	.3951	.3783	.0646
#1	11.08	1.926	1.680	1.220	28.31	2.262	2.118
#2	11.05	1.922	1.685	1.216	28.15	2.274	2.117

Elem	Zn2138	B_2496	Mo2020	Sn1899
Avge	62.76	5.730	2.500	3.930
SDev	.04	.024	.006	.006
%RSD	.0662	.4253	.2565	.1619
#1	62.78	5.748	2.495	3.926
#2	62.73	5.713	2.504	3.935

Method: SW846 Slope = Conc(STR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Al3082	308.215	Multiple	Standards	5350.52	-157.499	10/28/98 02:22:13
Sb2068	206.838	Multiple	Standards	3865.35	-21.4485	10/28/98 02:22:13
As1936	193.696	Multiple	Standards	4098.78	-10.2163	10/28/98 02:22:13
Ba4934	493.409	Multiple	Standards	1529.07	-.194509	10/28/98 02:22:13
Be3130	313.042	Multiple	Standards	421.489	-2.79230	10/28/98 02:22:13
Cd2288	228.802	Multiple	Standards	1612.02	-1.64036	10/28/98 02:22:13
Ca3179	317.933	Multiple	Standards	4949.60	-6.22433	10/28/98 02:22:13
Cr2677	267.716	Multiple	Standards	2448.54	-1.11761	10/28/98 02:22:13
Co2286	228.616	Multiple	Standards	959.429	-2.80098	10/28/98 02:22:13
Cu3247	324.754	Multiple	Standards	3667.33	-7.54601	10/28/98 02:22:13
Fe2599	259.940	Multiple	Standards	3249.19	-8.73777	10/28/98 02:22:13
Pb2203	220.353	Multiple	Standards	4557.29	-15.1519	10/28/98 02:22:13
Mg2790	279.078	Multiple	Standards	9326.15	-10.1495	10/28/98 02:22:13
Mn2576	257.610	Multiple	Standards	1558.21	-.941899	10/28/98 02:22:13
Ni2316	231.604	Multiple	Standards	884.253	-3.34834	10/28/98 02:22:13
K_7664	766.491	Multiple	Standards	52685.6	928.569	10/28/98 02:22:13
Se1960	196.026	Multiple	Standards	5696.93	-7.07669	10/28/98 02:22:13
Ag3280	328.068	Multiple	Standards	4059.75	13.4517	10/28/98 02:22:13
Na5889	588.995	Multiple	Standards	3448.60	2178.66	10/28/98 02:22:13
Tl1908	190.864	Multiple	Standards	4446.27	25.1082	10/28/98 02:22:13
V_2924	292.402	Multiple	Standards	4526.40	-1.53156	10/28/98 02:22:13
Zn2138	213.856	Multiple	Standards	795.564	-2.82505	10/28/98 02:22:13
B_2496	249.678	Multiple	Standards	1655.69	-3.40605	10/28/98 02:22:13
Mo2020	202.030	Multiple	Standards	3955.53	-1.40551	10/28/98 02:22:13
Sn1899	189.989	Multiple	Standards	2533.91	-10.6106	10/28/98 02:22:13

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Method: SW846

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al3082	308.215	STD1-BLANK	.000000	.163046	-.163046
		STD2	4000.00	3950.98	49.0151
		STD3	20000.0	19925.8	74.1543
		STD4	40000.0	39759.7	240.324

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb2068	206.838	STD1-BLANK	.000000	.068574	-.068574
		STD2	1000.00	995.009	4.99115
		STD3	5000.00	5029.66	-29.6582
		STD4	10000.0	10079.3	-79.3477

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As1936	193.696	STD1-BLANK	.000000	.030593	-.030593
		STD2	1000.00	961.467	38.5331
		STD3	5000.00	4869.38	130.623
		STD4	10000.0	9619.59	380.414

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba4934	493.409	STD1-BLANK	.000000	.366149	-.366149
		STD2	4000.00	3958.56	41.4373
		STD3	20000.0	20037.9	-37.9355
		STD4	40000.0	40340.9	-340.906

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be3130	313.042	STD1-BLANK	.000000	-.010480	.010480
		STD2	100.000	103.830	-3.83025
		STD3	500.000	514.852	-14.8518
		STD4	1000.00	1012.88	-12.8827

CorCoef: 0.99996

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd2288	228.802	STD1-BLANK	.000000	.025396	-.025396
		STD2	500.000	508.940	-8.93961
		STD3	2500.00	2569.69	-69.6902
		STD4	5000.00	5130.60	-130.597

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca3179	317.933	STD1-BLANK	.000000	.375135	-.375135
		STD2	10000.0	9957.98	42.0234
		STD3	50000.0	50102.8	-102.848
		STD4	100000.	100267.	-267.016

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr2677	267.716	STD1-BLANK	.000000	-.138192	.138192
		STD2	1000.00	1002.46	-2.45630
		STD3	5000.00	4939.54	60.4595
		STD4	10000.0	9711.82	288.178

CorCoef: 0.99996

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co2286	228.616	STD1-BLANK	.000000	-.050617	.050617
		STD2	1000.00	1009.59	-9.58875
		STD3	5000.00	5025.34	-25.3433
		STD4	10000.0	9975.68	24.3232

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu3247	324.754	STD1-BLANK	.000000	.033130	-.033130
		STD2	500.000	490.355	9.64545
		STD3	2500.00	2484.65	15.3538
		STD4	5000.00	4956.91	43.0879

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe2599	259.940	STD1-BLANK	.000000	-4.94705	4.94705
		STD2	20000.0	20534.9	-534.920
		STD3	100000.	100042.	-41.9609
		STD4	200000.	194194.	5806.23

CorCoef: 0.99988

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb2203	220.353	STD1-BLANK	.000000	-.112837	.112837
		STD2	2000.00	2011.93	-11.9293
		STD3	10000.0	10028.5	-28.5000
		STD4	20000.0	19824.4	175.611

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg2790	279.078	STD1-BLANK	.000000	.420162	-.420162
		STD2	10000.0	9921.58	78.4248
		STD3	50000.0	49992.0	8.01172
		STD4	100000.	99938.5	61.5156

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn2576	257.610	STD1-BLANK	.000000	-.006971	.006971
		STD2	1000.00	997.198	2.80206
		STD3	5000.00	4989.45	10.5547
		STD4	10000.0	9946.23	53.7725

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni2316	231.604	STD1-BLANK	.000000	-.194500	.194500
		STD2	1000.00	1021.68	-21.6774
		STD3	5000.00	5001.52	-1.52197
		STD4	10000.0	9782.88	217.116

CorCoef: 0.99993

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K_7664	766.491	STD1-BLANK	.000000	1.30194	-1.30194
		STD2	10000.0	9865.80	134.196
		STD3	50000.0	49529.3	470.715
		STD4	100000.	102283.	-2283.38

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CorCoef: 0.99986

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se1960	196.026	STD1-BLANK	.000000	-.050471	.050471
		STD2	1000.00	966.339	33.6607
		STD3	5000.00	4782.90	217.095
		STD4	10000.0	9580.29	419.708

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag3280	328.068	STD1-BLANK	.000000	.054559	-.054559
		STD2	500.000	485.194	14.8057
		STD3	2500.00	2466.49	33.5139
		STD4	5000.00	4958.90	41.1001

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na5889	588.995	STD1-BLANK	.000000	.519632	-.519632
		STD2	10000.0	9929.05	70.9531
		STD3	50000.0	50586.7	-586.695
		STD4	100000.	99530.9	469.133

CorCoef: 0.99996

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl1908	190.864	STD1-BLANK	.000000	-.087294	.087294
		STD2	1000.00	1033.82	-33.8180
		STD3	5000.00	5146.62	-146.615
		STD4	10000.0	10107.8	-107.761

CorCoef: 0.99995

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V_2924	292.402	STD1-BLANK	.000000	-.022762	.022762
		STD2	1000.00	963.950	36.0496
		STD3	5000.00	4811.24	188.756
		STD4	10000.0	9583.13	416.871

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn2138	213.856	STD1-BLANK	.000000	.065499	-.065499
		STD2	5000.00	4989.87	10.1294
		STD3	25000.0	25072.2	-72.2461
		STD4	50000.0	49923.2	76.8477

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B_2496	249.678	STD1-BLANK	.000000	-.039482	.039482
		STD2	1000.00	960.536	39.4636
		STD3	5000.00	4804.55	195.450
		STD4	10000.0	9484.30	515.699

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo2020	202.030	STD1-BLANK	.000000	-.087002	.087002
		STD2	1000.00	1009.50	-9.49512
		STD3	5000.00	5009.85	-9.85107
		STD4	10000.0	9886.62	113.381

CorCoef: 0.99998

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn1899	189.989	SID1-BLANK	.000000	.031840	-.031840
		SID2	1000.00	983.781	16.2185
		SID3	5000.00	4907.88	92.1157
		SID4	10000.0	9948.77	51.2334

CorCoef: 0.99998

Method: SW846 Sample Name: HSA Operator:
Run Time: 10/28/98 14:29:13
Comment: IDL: 6010 & 200.7
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	39200.	9915.	9796.	39300.	974.6	4956.	100500.
SDev	139.	43.	20.	127.	5.5	29.	899.
%RSD	.3536	.4301	.2044	.3228	.5621	.5951	.8945
#1	39100.	9885.	9782.	39210.	970.7	4935.	99860.
#2	39300.	9945.	9810.	39390.	978.5	4976.	101100.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	42180.	10540.	10540.	42180.	1054.	5272.	105400.
Low	37820.	9456.	9456.	37820.	945.6	4728.	94560.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	9778.	9862.	4865.	191100.	19800.	98620.	9858.
SDev	59.	76.	7.	809.	114.	374.	72.
%RSD	.6040	.7681	.1441	.4234	.5744	.3789	.7331
#1	9736.	9809.	4860.	190500.	19720.	98360.	9807.
#2	9819.	9916.	4870.	191600.	19880.	98890.	9909.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10540.	10540.	5272.	210900.	21090.	105400.	10540.
Low	9456.	9456.	4728.	189100.	18910.	94560.	9456.

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	9713.	97630.	9760.	4946.	94900.	9778.	9822.
SDev	48.	415.	49.	27.	459.	86.	68.
%RSD	.4978	.4248	.4976	.5419	.4837	.8783	.6955
#1	9679.	97920.	9726.	4927.	95230.	9717.	9774.
#2	9748.	97340.	9795.	4965.	94580.	9838.	9871.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10540.	105400.	10540.	5272.	105400.	10540.	10540.
Low	9456.	94560.	9456.	4728.	94560.	9456.	9456.

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	49060.	9704.	9777.	9964.
SDev	259.	32.	68.	69.
%RSD	.5274	.3283	.6995	.6958

306194

#1	48880.	9681.	9728.	9915.
#2	49250.	9726.	9825.	10010.
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	52720.	10540.	10540.	10540.
Low	47280.	9456.	9456.	9456.

Method: SW846 Sample Name: ICV/CCV1 Operator:
Run Time: 10/28/98 14:33:21
Comment: IDL: 6010 & 200.7
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	20330.	5016.	5033.	19960.	497.3	2512.	50960.
SDev	83.	10.	12.	69.	2.1	12.	227.
%RSD	.4067	.2020	.2415	.3438	.4271	.4681	.4459
#1	20280.	5023.	5024.	19910.	495.8	2504.	50800.
#2	20390.	5008.	5041.	20010.	498.8	2520.	51120.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	22090.	5522.	5520.	22090.	552.2	2761.	55220.
Low	17910.	4478.	4478.	17910.	447.8	2239.	44780.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	4969.	5059.	2509.	99540.	9901.	50920.	5058.
SDev	24.	21.	10.	323.	30.	120.	21.
%RSD	.4779	.4081	.3966	.3240	.3038	.2352	.4078
#1	4952.	5044.	2502.	99310.	9880.	50830.	5043.
#2	4985.	5073.	2516.	99760.	9922.	51000.	5072.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5522.	5522.	2761.	110400.	11040.	55220.	5522.
Low	4478.	4478.	2239.	89560.	8956.	44780.	4478.

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	4979.	48230.	4934.	2521.	49580.	5047.	5046.
SDev	12.	127.	18.	15.	123.	22.	16.
%RSD	.2319	.2626	.3721	.5897	.2485	.4439	.3073
#1	4971.	48150.	4921.	2511.	49500.	5063.	5035.
#2	4987.	48320.	4947.	2532.	49670.	5031.	5057.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5522.	55200.	5522.	2761.	55220.	5522.	5522.
Low	4478.	44780.	4478.	2239.	44780.	4478.	4478.

306195

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	24520.	4886.	4851.	4952.
SDev	86	21	20	19

%RSD	.3501	.4280	.4112	.3890
#1	24460.	4871.	4837.	4939.
#2	24590.	4901.	4865.	4966.
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	27610.	5522.	5522.	5522.
Low	22390.	4478.	4478.	4478.

Method: SW846 Sample Name: ICB/CCB1 Operator:
Run Time: 10/28/98 14:37:30
Comment: IDL: 6010 & 200.7
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-5.594	-8.518	-11.19	1.131	.0374	1.095	3.344
SDev	10.538	14.582	5.20	.432	.0390	.161	.934
%RSD	188.4	171.2	46.42	38.25	104.3	14.67	27.94
#1	1.857	1.794	-14.87	1.436	.0650	1.208	2.683
#2	-13.05	-18.83	-7.519	.8248	.0098	.9810	4.005
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	59.90	100.0	50.00	4.900	4.900	500.0
Low	-199.0	-59.90	-100.0	-50.00	-4.900	-4.900	-500.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.4243	1.865	-4.126	-4.080	10.40	29.00	.4071
SDev	.4653	1.266	3.456	2.909	9.45	5.65	.0016
%RSD	109.7	67.90	83.76	71.30	90.91	19.48	.3997
#1	-.0953	.9696	-1.682	-2.023	17.09	25.00	.4082
#2	-.7533	2.761	-6.569	-6.137	3.714	32.99	.4059
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.900	24.90	24.90	99.90	49.90	200.0	4.900
Low	-9.900	-24.90	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	4.521	603.7	3.358	2.790	-24.19	.7355	3.215
SDev	1.876	86.9	6.707	.960	17.07	15.27	.306
%RSD	41.49	14.40	199.7	34.40	70.55	2076.	9.512
#1	3.195	542.2	-1.385	3.468	-36.26	-10.06	3.431
#2	5.848	665.1	8.100	2.111	-12.12	11.53	2.999
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	39.90	2500.	99.90	9.900	1000.	50.00	49.90
Low	-39.90	-2500.	-99.90	-9.900	-1000.	-50.00	-49.90

306196

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	1.248	10.33	10.72	24.33

SDev	.037	.71	2.61	11.98
%RSD	2.991	6.887	24.34	49.25
#1	1.221	10.83	12.57	32.81
#2	1.274	9.828	8.879	15.86
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	19.90	99.90	25.00	50.00
Low	-19.90	-99.90	-25.00	-50.00

Method: SW846 Sample Name: ICSA1 Operator:
Run Time: 10/28/98 14:41:37
Comment: IDL: 6010 & 200.7
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	500600.	6.871	6.839	.6602	.0568	-2.068	511200.
SDev	5605.	24.25	1.127	.3895	.0463	1.755	3639.
%RSD	1.120	352.9	16.49	59.00	81.47	84.87	.7119
#1	504600.	24.02	6.042	.9356	.0896	-3.309	508600.
#2	496600.	-10.27	7.636	.3847	.0241	-.8270	513700.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600000.	120.0	150.0	500.0	10.00	10.00	600000.
Low	400000.	-120.0	-150.0	-500.0	-10.00	-10.00	400000.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-4.845	-.4031	9.920	184600.	3.240	513200.	-2.535
SDev	.866	2.9442	.931	1202.	9.324	2792.	.887
%RSD	17.88	730.5	9.388	.6510	287.7	.5441	34.99
#1	-4.232	-2.485	9.261	185500.	9.833	515100.	-1.908
#2	-5.458	1.679	10.58	183800.	-3.353	511200.	-3.162
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	20.00	20.00	50.00	240000.	100.0	600000.	9.900
Low	-20.00	-20.00	-50.00	160000.	-100.0	400000.	-9.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.4212	-88.26	-46.10	-3.542	90.80	85.06	6.472
SDev	10.479	1323.8	1.32	.363	44.99	19.08	2.352
%RSD	2488.	1500.	2.856	10.24	49.54	22.43	36.33
#1	6.989	-1024.	-47.03	-3.285	58.99	98.55	4.809
#2	-7.831	847.8	-45.17	-3.798	122.6	71.57	8.135
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	80.00	5000.	200.0	10.00	2000.	200.0	100.0
Low	-80.00	-5000.	-200.0	-10.00	-2000.	-200.0	-100.0

306197

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L

Avge	-1.809	-8.060	13.76	1.000
SDev	.966	6.625	5.92	3.238
%RSD	53.40	82.20	42.99	323.7
#1	-2.493	-3.375	17.94	3.290
#2	-1.126	-12.74	9.577	-1.289
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	40.00	100.0	50.00	100.0
Low	-40.00	-100.0	-50.00	-100.0

Method: SW846 Sample Name: ICSAB1 Operator:
Run Time: 10/28/98 14:45:45
Comment: IDL: 6010 & 200.7
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	502800.	1051.	983.4	473.9	483.3	509.2	518800.
SDev	3973.	21.	149.0	5.3	1.6	2.9	2715.
%RSD	.7902	1.998	15.15	1.115	.3408	.5675	.5234
#1	505600.	1065.	1089.	477.6	484.4	507.1	516900.
#2	500000.	1036.	878.1	470.2	482.1	511.2	520700.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600000.	1200.	1200.	600.0	600.0	600.0	600000.
Low	400000.	800.0	800.0	400.0	400.0	400.0	400000.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	478.5	496.4	508.9	185700.	487.8	515600.	488.7
SDev	.1	1.0	5.6	1102.	20.9	2290.	2.0
%RSD	.0222	.2014	1.103	.5936	4.293	.4442	.4043
#1	478.5	495.7	512.9	186500.	502.6	517200.	490.1
#2	478.4	497.1	504.9	184900.	473.0	514000.	487.3
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.0	600.0	600.0	240000.	600.0	600000.	600.0
Low	400.0	400.0	400.0	160000.	400.0	400000.	400.0

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	476.6	10710.	915.0	517.7	10020.	1039.	505.3
SDev	2.1	720.	29.1	2.3	195.	20.	1.0
%RSD	.4329	6.725	3.180	.4419	1.948	1.916	.1968
#1	475.1	10200.	935.6	516.0	10160.	1025.	506.0
#2	478.0	11220.	894.4	519.3	9883.	1053.	504.6
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.0	12000.	1200.	600.0	12000.	1200.	600.0
Low	400.0	8000.	800.0	400.0	8000.	800.0	400.0
Elem	Zn2138	B_2496	Mo2020	Sn1899			

306198

Units	ug/L	ug/L	ug/L	ug/L
Avge	504.4	478.3	505.9	992.1
SDev	1.8	6.1	10.2	14.9
%RSD	.3522	1.274	2.014	1.500
#1	505.7	482.6	513.1	1003.
#2	503.1	474.0	498.7	981.6
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	[illegible]	[illegible]	[illegible]	[illegible]
Low	400.0	400.0	400.0	800.0

Method: SW846 Sample Name: MCL Operator:
Run Time: 10/28/98 14:49:53
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	213.2	112.9	592.3	48.54	3.994	4.631	5083.
SDev	4.4	3.5	44.1	.22	.025	1.158	11.
%RSD	2.050	3.091	7.438	.4457	.6282	25.00	.2249
#1	210.1	115.4	561.1	48.70	4.012	5.450	5075.
#2	216.3	110.5	623.4	48.39	3.976	3.812	5091.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	20.25	52.23	16.12	205.7	103.9	5042.	19.75
SDev	2.33	.86	.17	3.1	5.2	14.	.07
%RSD	11.53	1.645	1.068	1.489	4.965	.2707	.3732
#1	18.60	51.62	16.25	207.9	107.5	5052.	19.69
#2	21.90	52.84	16.00	203.5	100.2	5033.	19.80

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	53.08	9430.	405.0	19.87	4994.	515.8	52.93
SDev	.42	152.	6.4	3.08	74.	3.5	1.90
%RSD	.7851	1.607	1.590	15.49	1.474	.6871	3.583
#1	53.38	9537.	400.4	17.69	5047.	513.3	51.59
#2	52.79	9323.	409.5	22.05	4942.	518.3	54.27

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	49.36	103.3	110.5	204.7
SDev	.65	1.4	.9	15.2
%RSD	1.320	1.367	.8442	7.405
#1	48.90	104.3	111.2	194.0
#2	49.82	102.3	109.9	215.4

306199

Method: SW846 Sample Name: INT-20 Operator:

Run Time: 10/28/98 14:54:00
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	42.69	-29.36	10110.	19790.	.9328	-18.89	1.678
SDev	4.67	4.05	47.	129.	.6039	5.15	4.120
%RSD	10.94	13.80	.4682	.6541	64.74	27.29	245.5
#1	39.38	-32.23	10070.	19700.	.5058	-15.24	4.591
#2	45.99	-26.50	10140.	19880.	1.360	-22.53	-1.235

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	20090.	20180.	19760.	-21.80	-1.296	53.32	20350.
SDev	107.	69.	83.	4.92	5.912	.48	65.
%RSD	.5314	.3400	.4203	22.57	456.3	.9028	.3173
#1	20020.	20130.	19700.	-25.28	2.885	53.66	20300.
#2	20170.	20230.	19810.	-18.32	-5.476	52.98	20390.

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	20130.	347.3	-.5659	11.34	-41.55	28.86	20310.
SDev	94.	300.5	16.709	.04	20.58	12.13	71.
%RSD	.4670	86.54	2952.	.3162	49.52	42.04	.3498
#1	20070.	559.8	11.25	11.32	-27.00	37.44	20260.
#2	20200.	134.8	-12.38	11.37	-56.10	20.28	20360.

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	19660.	.9845	19820.	9.615
SDev	62.	1.722	111.	3.583
%RSD	.3158	174.9	.5615	37.26
#1	19610.	2.202	19740.	12.15
#2	19700.	-.2331	19900.	7.082

Method: SW846 Sample Name: BSW102798 Operator:
Run Time: 10/28/98 14:58:07
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1969.	469.0	1823.	1929.	50.89	45.26	19990.
SDev	13.	4.3	2.	1.	.06	.72	105.
%RSD	.6715	.9063	.1045	.0523	.1187	1.584	.5228
#1	1959.	472.0	1824.	1929.	50.84	45.77	19920.
#2	1978.	466.0	1821.	1930.	50.93	44.76	20070.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2400.	600.0	2400.	2400.	60.00	60.00	24000.
Low	1600.	400.0	1600.	1600.	40.00	40.00	16000.

306200

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	198.1	498.2	243.0	994.1	495.1	19740.	487.9
SDev	3.6	1.4	.3	6.3	16.1	13.	1.5
%RSD	1.804	.2807	.1401	.6339	3.250	.0653	.3016
#1	195.6	497.2	243.3	989.6	483.7	19750.	486.9
#2	200.6	499.2	242.8	998.5	506.5	19730.	489.0
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	240.0	600.0	300.0	1200.	600.0	24000.	600.0
Low	160.0	400.0	200.0	800.0	400.0	16000.	400.0

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	497.7	18860.	1905.	48.81	20140.	1980.	494.1
SDev	7.4	164.	27.	3.44	62.	35.	.4
%RSD	1.482	.8693	1.438	7.049	.3083	1.775	.0798
#1	492.5	18970.	1886.	46.38	20100.	1955.	494.4
#2	502.9	18740.	1925.	51.24	20190.	2005.	493.8
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.0	24000.	2400.	60.00	24000.	2400.	600.0
Low	400.0	16000.	1600.	40.00	16000.	1600.	400.0

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	488.6	538.2	517.3	L356.1
SDev	1.0	1.2	5.6	15.6
%RSD	.2019	.2158	1.081	4.392
#1	487.9	539.1	521.2	L345.0
#2	489.3	537.4	513.3	L367.1
Errors	LC Pass	LC Pass	LC Pass	LC Low
High	600.0	600.0	600.0	600.0
Low	400.0	400.0	400.0	400.0

Method: SW846 Sample Name: PBW102798 Operator:
Run Time: 10/28/98 15:02:15
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-5.883	-13.14	-20.75	-.1437	-.0454	.8423	15.23
SDev	5.013	1.44	7.54	.0720	.0748	.5172	7.47
%RSD	85.21	10.98	36.35	50.13	164.7	61.41	49.04
#1	-2.338	-12.12	-15.42	-.1946	-.0983	.4766	9.946
#2	-9.427	-14.16	-26.09	-.0927	.0075	1.208	20.51
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	59.90	100.0	50.00	4.900	4.900	500.0

306201

Low	-199.0	-59.90	-100.0	-50.00	-4.900	-4.900	-500.0
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-3.043	3.211	-3.633	-1.911	-3.736	12.42	.5114
SDev	.670	.542	2.766	.457	5.808	23.79	.2928
%RSD	22.01	16.87	76.14	23.91	155.5	191.5	57.26
#1	-2.570	2.828	-5.589	-1.588	-7.842	-4.398	.3043
#2	-3.517	3.594	-1.677	-2.234	.3711	29.24	.7185
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.900	24.90	24.90	99.90	49.90	200.0	4.900
Low	-9.900	-24.90	-24.90	-99.90	-49.90	-200.0	-4.900
Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1.574	375.4	-1.006	-3.035	1.785	-23.76	2.620
SDev	3.043	752.5	16.649	.781	13.16	4.60	1.763
%RSD	193.3	200.5	1655.	25.73	737.6	19.38	67.29
#1	-.5776	-156.8	-12.78	-3.587	-7.524	-20.51	1.373
#2	3.725	907.5	10.77	-2.482	11.09	-27.02	3.866
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	39.90	2500.	99.90	9.900	1000.	50.00	49.90
Low	-39.90	-2500.	-99.90	-9.900	-1000.	-50.00	-49.90
Elem	Zn2138	B_2496	Mo2020	Sn1899			
Units	ug/L	ug/L	ug/L	ug/L			
Avge	3.029	3.600	6.900	9.288			
SDev	1.196	.702	1.678	5.253			
%RSD	39.48	19.50	24.32	56.55			
#1	2.183	3.103	5.713	5.574			
#2	3.874	4.096	8.086	13.00			
Errors	LC Pass	LC Pass	LC Pass	LC Pass			
High	19.90	99.90	25.00	50.00			
Low	-19.90	-99.90	-25.00	-50.00			

Method: SW846 Sample Name: LCSW102798 Operator:
Run Time: 10/28/98 15:06:23
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1056.	988.1	989.2	951.9	1029.	993.0	1025.
SDev	10.	6.3	24.8	6.1	8.	9.6	1.
%RSD	.9577	.6327	2.503	.6436	.7343	.9714	.1353
#1	1063.	992.5	1007.	947.6	1024.	986.1	1024.
#2	1049.	983.7	971.7	956.3	1034.	999.8	1026.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass

306202

High	1200.	1200.	1200.	1200.	1200.	1200.	1200.
Low	800.0	800.0	800.0	800.0	800.0	800.0	800.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1006.	1019.	993.1	1039.	1003.	1013.	1001.
SDev	10.	2.	2.1	4.	4.	5.	7.
%RSD	1.004	.1807	.2088	.4211	.3825	.4841	.7043
#1	999.2	1018.	991.7	1036.	1005.	1017.	996.3
#2	1013.	1021.	994.6	1042.	999.8	1010.	1006.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1200.	1200.	1200.	1200.	1200.	1200.	1200.
Low	800.0	800.0	800.0	800.0	800.0	800.0	800.0

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1007.	9079.	979.7	953.6	L1091.	1029.	1014.
SDev	14.	926.	2.7	7.1	52.	28.	5.
%RSD	1.378	10.20	.2748	.7472	4.770	2.737	.5089
#1	997.3	9734.	977.7	948.5	L1127.	1009.	1010.
#2	1017.	8424.	981.6	958.6	L1054.	1049.	1018.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Pass
High	1200.	12000.	1200.	1200.	12000.	1200.	1200.
Low	800.0	8000.	800.0	800.0	8000.	800.0	800.0

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	989.6	1013.	1023.	L12.98
SDev	7.3	6.	12.	12.68
%RSD	.7412	.5948	1.203	97.68
#1	984.4	1008.	1014.	L21.95
#2	994.8	1017.	1032.	L4.014
Errors	LC Pass	LC Pass	LC Pass	LC Low
High	1200.	1200.	1200.	1200.
Low	800.0	800.0	800.0	800.0

Method: SW846 Sample Name: 91152D Operator:
Run Time: 10/28/98 15:10:31
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	346.0	-18.06	-11.52	27.44	.1301	.0225	4985.
SDev	5.3	.35	10.44	.22	.0036	1.179	1.
%RSD	1.533	1.965	90.63	.7880	2.738	5249.	.0234
#1	342.2	-18.31	-18.91	27.29	.1326	.8563	4986.
#2	349.7	-17.81	-4.138	27.59	.1276	-.8113	4984.

306203

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-2.278	1.299	-2.401	39.47	-4.811	1391.	25.66
SDev	1.172	.858	1.039	.61	1.502	10.	.29
%RSD	51.43	66.04	43.26	1.540	31.21	.6939	1.142
#1	-3.107	1.906	-1.667	39.04	-3.749	1398.	25.87
#2	-1.450	.6926	-3.135	39.90	-5.873	1384.	25.46

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	3.949	809.1	-6.048	-4.550	12040.	13.68	-.0023
SDev	5.085	99.3	24.977	.968	118.	1.48	1.3170
%RSD	128.8	12.28	413.0	21.28	.9814	10.80	58240.
#1	7.545	738.9	-23.71	-5.235	11960.	12.63	-.9335
#2	.3531	879.4	11.61	-3.866	12130.	14.72	.9290

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	10.83	27.14	.8360	-4.897
SDev	.31	.47	.9313	4.063
%RSD	2.870	1.735	111.4	82.97
#1	11.05	26.81	.1775	-7.770
#2	10.61	27.48	1.495	-2.024

Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	10000.	10000.	10000.
Low	-19.90	-100.0	-25.00	-50.00

Method: SW846 Sample Name: 91152 Operator:
Run Time: 10/28/98 15:14:39
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	382.7	-17.95	-12.57	27.59	.1292	.6334	4960.
SDev	3.4	16.23	3.48	.29	.0047	.4073	1.
%RSD	.8760	90.44	27.67	1.045	3.606	64.30	.0282
#1	385.1	-6.470	-10.11	27.39	.1259	.9214	4961.
#2	380.4	-29.42	-15.03	27.80	.1325	.3454	4959.

306204

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.9681	1.620	-5.458	34.59	-3.606	1392.	25.46
SDev	.9006	2.307	.866	2.60	22.562	15.	.29
%RSD	93.03	142.4	15.87	7.518	625.7	1.044	1.153
#1	-1.605	3.252	-4.845	32.76	12.35	1403.	25.67
#2	-.3313	-.0113	-6.071	36.43	-19.56	1382.	25.25

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.2070	944.4	-26.76	-1.300	11980.	-14.47	.3319
SDev	1.0422	712.8	3.75	.206	76.	29.56	1.736
%RSD	503.4	75.48	14.03	15.89	.6380	204.3	523.0
#1	-.9440	1448.	-24.10	-1.154	11920.	-35.37	1.559
#2	.5299	440.3	-29.41	-1.446	12030.	6.436	-.8956

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	7.512	24.65	1.627	10.22
SDev	.800	.38	.931	3.98
%RSD	10.65	1.553	57.23	38.95
#1	8.077	24.92	2.286	13.03
#2	6.946	24.38	.9687	7.405

Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	10000.	10000.	10000.
Low	-19.90	-100.0	-25.00	-50.00

Method: SW846 Sample Name: 91152L Operator:
Run Time: 10/28/98 15:18:48
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	78.86	-9.046	-11.33	5.506	.0798	.8904	993.1
SDev	.77	1.471	15.65	.288	.0590	.1926	12.8
%RSD	.9719	16.26	138.2	5.238	73.85	21.63	1.292
#1	78.32	-10.09	-22.39	5.710	.0381	1.027	984.0

306205

#2	79.40	-8.006	-.2579	5.302	.1215	.7542	1002.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.8370	3.301	-4.732	.4271	2.912	285.7	5.345
SDev	.5739	1.674	.175	1.842	1.929	2.1	.368
%RSD	68.57	50.71	3.695	431.3	66.23	.7525	6.879
#1	-.4311	2.117	-4.856	-.8755	4.276	287.2	5.085
#2	-1.243	4.485	-4.609	1.730	1.548	284.2	5.605
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900
Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	3.664	647.6	5.075	-.8666	2424.	1.869	3.053
SDev	1.000	223.5	15.04	.7631	17.	3.145	.270
%RSD	27.30	34.52	296.3	88.05	.7108	168.3	8.828
#1	4.372	489.5	15.71	-.3270	2436.	-.3546	2.863
#2	2.957	805.6	-5.558	-1.406	2412.	4.093	3.244
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00
Elem	Zn2138	B_2496	Mo2020	Sn1899			
Units	ug/L	ug/L	ug/L	ug/L			
Avge	1.772	5.149	6.110	13.60			
SDev	.192	1.330	1.678	13.74			
%RSD	10.82	25.83	27.46	101.0			
#1	1.636	4.209	4.923	3.888			
#2	1.907	6.090	7.296	23.32			
Errors	LC Pass	LC Pass	LC Pass	LC Pass			
High	50000.	10000.	10000.	10000.			
Low	-19.90	-100.0	-25.00	-50.00			

Method: SW846 Sample Name: CCV2 Operator:
Run Time: 10/28/98 15:22:56
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	20320.	5053.	4993.	19870.	496.5	2515.	50840.
SDev	34.	46.	34.	38.	.7	6.	42.
%RSD	.1667	.9188	.6777	.1916	.1418	.2278	.0826

306206

#1	20300.	5021.	4969.	19840.	496.0	2511.	50810.
#2	20340.	5086.	5017.	19890.	497.0	2519.	50870.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	21090.	5272.	5272.	21090.	527.2	2636.	52720.
Low	18910.	4728.	4728.	18910.	472.8	2364.	47280.
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	4955.	5050.	2506.	99200.	9919.	50900.	5066.
SDev	11.	4.	9.	250.	27.	29.	8.
%RSD	.2317	.0807	.3474	.2518	.2770	.0575	.1604
#1	4947.	5047.	2500.	99020.	9900.	50920.	5060.
#2	4963.	5052.	2512.	99380.	9939.	50880.	5072.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5272.	5272.	2636.	105400.	10540.	52720.	5272.
Low	4728.	4728.	2364.	94560.	9456.	47280.	4728.
Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	4970.	48640.	4928.	2529.	49580.	5029.	5042.
SDev	19.	127.	9.	2.	355.	19.	4.
%RSD	.3749	.2604	.1737	.0922	.7151	.3780	.0817
#1	4957.	48550.	4922.	2527.	49330.	5016.	5039.
#2	4983.	48730.	4934.	2530.	49830.	5043.	5045.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5272.	52720.	5272.	2636.	52720.	5272.	5272.
Low	4728.	47280.	4728.	2364.	47280.	4728.	4728.
Elem	Zn2138	B_2496	Mo2020	Sn1899			
Units	ug/L	ug/L	ug/L	ug/L			
Avge	24520.	4877.	4839.	4934.			
SDev	78.	7.	7.	18.			
%RSD	.3182	.1441	.1386	.3629			
#1	24460.	4872.	4834.	4947.			
#2	24570.	4882.	4843.	4922.			
Errors	LC Pass	LC Pass	LC Pass	LC Pass			
High	26360.	5272.	5272.	5272.			
Low	23640.	4728.	4728.	4728.			

Method: SW846 Sample Name: CCB2 Operator:
Run Time: 10/28/98 15:27:04
Comment: 7096E1
Mode: CONC Corr. Factor: 1

306207

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-11.91	-16.65	-11.75	.5190	.0169	.8176	1.036
SDev	10.86	6.40	11.03	.2883	.0403	.1152	1.398
%RSD	91.26	38.42	93.87	55.55	238.3	14.09	135.0

#1	-19.59	-12.12	-19.54	.7229	-.0116	.7361	.0473
#2	-4.223	-21.17	-3.950	.3152	.0454	.8991	2.025
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	59.90	100.0	50.00	4.900	4.900	500.0
Low	-199.0	-59.90	-100.0	-50.00	-4.900	-4.900	-500.0
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.9510	-1.267	-4.129	-5.489	-.8523	.9043	.1470
SDev	1.6132	1.267	.690	.309	4.7302	5.718	.2192
%RSD	169.6	99.99	16.71	5.631	555.0	632.3	149.2
#1	-2.092	-2.163	-3.641	-5.271	2.493	4.948	.3020
#2	.1897	-.3712	-4.616	-5.708	-4.197	-3.139	-.0081
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.900	24.90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
			[illegible]	[illegible]	[illegible]	[illegible]	-4.900
Elem	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1.427	36.43	-3.289	-.8891	-21.32	-2.678	.3552
SDev	1.834	491.8	1.613	1.1502	26.01	33.127	.2138
%RSD	128.6	1350.	49.05	129.4	122.0	1237.	60.20
#1	2.723	384.2	-2.148	-.0758	-2.932	20.75	.5063
#2	.1298	-311.3	-4.429	-1.702	-39.71	-26.10	.2040
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	39.90	2500.	99.90	9.900	1000.	50.00	49.90
Low	-39.90	-2500.	-99.90	-9.900	-1000.	-50.00	-49.90
Elem	Zn2138	B 2496	Mo2020	Sn1899			
Units	ug/L	ug/L	ug/L	ug/L			
Avge	.3377	3.817	6.637	24.73			
SDev	.2566	2.110	.187	.37			
%RSD	75.98	55.27	2.814	1.512			
#1	.5191	5.308	6.769	25.00			
#2	.1563	2.325	6.505	24.47			
Errors	LC Pass	LC Pass	LC Pass	LC Pass			
High	19.90	99.90	25.00	50.00			
Low	-19.90	-99.90	-25.00	-50.00			

Method: SW846 Sample Name: 91152MS Operator:
Run Time: 10/28/98 15:31:12
Comment: 7096E1
Mode: CONC Corr. Factor: 1

306208

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	2327.	466.8	1825.	1953.	51.16	44.86	25100.
SDev	3.	15.1	15.	5.	.10	.92	31.

%RSD	.1468	3.240	.8037	.2436	.1922	2.055	.1227
#1	2324.	477.5	1836.	1950.	51.23	44.21	25080.
#2	2329.	456.2	1815.	1956.	51.09	45.52	25130.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	198.0	501.5	243.3	1018.	500.1	21240.	516.3
SDev	.9	3.8	.7	4.	7.5	76.	.7
%RSD	.4640	.7673	.2822	.4221	1.503	.3557	.1428
#1	197.4	504.3	242.8	1015.	505.4	21290.	515.8
#2	198.7	498.8	243.8	1021.	494.8	21190.	516.8
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900
Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	496.2	19730.	1922.	50.03	31860.	1970.	495.1
SDev	1.1	762.	19.	.19	175.	1.	.3
%RSD	.2183	3.864	1.006	.3883	.5490	.0614	.0685
#1	497.0	20270.	1909.	50.17	31740.	1971.	495.3
#2	495.5	19190.	1936.	49.89	31990.	1970.	494.8
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00
Elem	Zn2138	B_2496	Mo2020	Sn1899			
Units	ug/L	ug/L	ug/L	ug/L			
Avge	493.4	512.7	497.3	359.2			
SDev	1.6	1.8	2.4	5.3			
%RSD	.3270	.3530	.4876	1.473			
#1	494.5	511.4	495.6	362.9			
#2	492.3	514.0	499.1	355.4			
Errors	LC Pass	LC Pass	LC Pass	LC Pass			
High	50000.	10000.	10000.	10000.			
Low	-19.90	-100.0	-25.00	-50.00			

Method: SW846 Sample Name: 91152MSD Operator:
Run Time: 10/28/98 15:35:20
Comment: 7096E1
Mode: CONC Corr. Factor: 1

306209

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	2392.	471.0	1921.	1975.	52.09	46.24	25860.

SDev	1.	9.7	17.	.	.13	.07	151.
%RSD	.0376	2.058	.9056	.0001	.2529	.1565	.5839
#1	2392.	477.8	1908.	1975.	52.00	46.19	25750.
#2	2393.	464.1	1933.	1975.	52.18	46.29	25960.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	203.1	513.2	246.6	1047.	508.1	21830.	529.7
SDev	2.0	.2	1.9	1.	14.6	8.	2.3
%RSD	.9835	.0439	.7720	.0614	2.873	.0367	.4299
#1	201.7	513.1	245.2	1046.	497.8	21830.	528.1
#2	204.5	513.4	247.9	1047.	518.5	21820.	531.3
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	505.1	20000.	1983.	52.15	32440.	2048.	505.5
SDev	2.1	7.	38.	1.51	204.	8.	2.6
%RSD	.4127	.0373	1.896	2.894	.6299	.3811	.5220
#1	503.6	19990.	1956.	53.22	32590.	2054.	503.6
#2	506.6	20000.	2009.	51.08	32300.	2043.	507.3
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	510.1	514.1	513.6	381.2
SDev	2.9	.7	4.1	45.4
%RSD	.5744	.1369	.7990	11.90
#1	508.0	514.6	516.5	349.1
#2	512.2	513.6	510.7	413.2
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	10000.	10000.	10000.
Low	-19.90	-100.0	-25.00	-50.00

Method: SW846 Sample Name: 91152A Operator:
Run Time: 10/28/98 15:39:28
Comment: 7096E1
Mode: CONC Corr. Factor: 1

306210

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L

Avge	2346.	469.5	1897.	1939.	50.80	44.09	24880.
SDev	33.	5.7	14.	10.	.41	.14	276.
%RSD	1.393	1.209	.7565	.5241	.8053	.3097	1.111
#1	2323.	473.5	1887.	1932.	50.51	43.99	24680.
#2	2369.	465.5	1908.	1946.	51.09	44.19	25070.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	194.7	496.6	243.0	1026.	516.6	21070.	514.5
SDev	2.7	2.0	.0	5.	9.4	64.	4.3
%RSD	1.383	.4079	.0017	.4982	1.827	.3025	.8429
#1	192.8	495.1	243.0	1022.	510.0	21030.	511.4
#2	196.6	498.0	243.0	1029.	523.3	21120.	517.5
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900
Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	494.9	19670.	1961.	47.98	31320.	2004.	493.2
SDev	1.3	735.	23.	3.09	192.	9.	3.0
%RSD	.2694	3.738	1.192	6.433	.6120	.4688	.6025
#1	493.9	20190.	1944.	45.80	31450.	1997.	491.1
#2	495.8	19150.	1977.	50.17	31180.	2011.	495.3
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00
Elem	Zn2138	B_2496	Mo2020	Sn1899			
Units	ug/L	ug/L	ug/L	ug/L			
Avge	488.9	512.4	504.3	357.9			
SDev	4.3	2.5	.7	13.0			
%RSD	.8770	.4891	.1482	3.641			
#1	485.8	510.7	504.9	367.1			
#2	491.9	514.2	503.8	348.7			
Errors	LC Pass	LC Pass	LC Pass	LC Pass			
High	50000.	10000.	10000.	10000.			
Low	-19.90	-100.0	-25.00	-50.00			

Method: SW846 Sample Name: 91153 Operator:
Run Time: 10/28/98 15:43:36 306211
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179

Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	8937.	-7.119	6.047	56.93	.4042	7.800	7780.
SDev	1.	3.273	33.51	.43	.1204	1.362	65.
%RSD	.0087	45.98	554.2	.7588	29.80	17.47	.8367
#1	8937.	-9.433	29.74	56.62	.4893	6.836	7734.
#2	8938.	-4.804	-17.65	57.24	.3190	8.763	7826.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	40.58	1.649	16.38	25680.	25.06	1880.	63.78
SDev	.93	1.221	1.71	73.	12.46	14.	.45
%RSD	2.290	74.03	10.44	.2833	49.74	.7479	.7097
#1	39.92	.7860	17.59	25630.	33.87	1890.	63.46
#2	41.24	2.512	15.17	25730.	16.25	1870.	64.10
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	5.153	1002.	-9.423	-1.745	2310.	10.49	106.1
SDev	.792	5.	1.196	1.726	25.	7.67	.5
%RSD	15.37	.4956	12.69	98.93	1.070	73.08	.4303
#1	5.713	998.8	-8.577	-2.966	2328.	5.071	105.7
#2	4.593	1006.	-10.27	-.5243	2293.	15.91	106.4
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	35.18	21.29	18.01	11.70
SDev	.87	1.09	.75	3.63
%RSD	2.467	5.119	4.182	31.02
#1	34.56	22.06	17.48	9.137
#2	35.79	20.52	18.54	14.27
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	10000.	10000.	10000.
Low	-19.90	-100.0	-25.00	-50.00

Method: SW846 Sample Name: 91154 Operator: 306212
Run Time: 10/28/98 15:47:43
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	88.99	-9.563	-1.343	5.663	.0972	.8714	516.9
SDev	8.06	2.206	17.010	.216	.0378	.4670	8.6
%RSD	9.054	23.07	1267.	3.817	38.90	53.60	1.670
#1	83.29	-11.12	-13.37	5.510	.0704	.5411	510.8
#2	94.68	-8.004	10.69	5.816	.1239	1.202	523.0
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.4452	2.789	-.4122	177.5	9.725	277.9	6.102
SDev	.4521	1.673	.3462	1.4	6.453	6.9	.220
%RSD	101.6	60.00	83.99	.7791	66.35	2.496	3.599
#1	-.1255	1.606	-.6571	178.5	5.162	282.8	6.257
#2	-.7648	3.972	-.1674	176.5	14.29	273.0	5.946
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	4.578	965.4	-13.93	.3406	14030.	4.635	1.834
SDev	1.042	250.8	9.14	.5812	11.	6.101	.768
%RSD	22.76	25.98	65.56	170.6	.0800	131.6	41.87
#1	5.315	1143.	-7.475	-.0703	14030.	.3204	1.291
#2	3.841	788.1	-20.39	.7516	14020.	8.949	2.377
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	5.673	37.22	5.732	5.005
SDev	.270	1.48	3.729	12.19
%RSD	4.758	3.977	65.05	243.6
#1	5.482	36.17	3.096	-3.614
#2	5.864	38.26	8.369	13.62
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	10000.	10000.	10000.
Low	-19.90	-100.0	-25.00	-50.00

Method: SW846 Sample Name: 91155 Operator: 306213
Run Time: 10/28/98 15:51:51
Comment: 7096E1

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	747.7	-16.92	1.557	20.83	.1188	1.390	3238.
SDev	20.3	6.18	12.13	.22	.0053	.573	8.
%RSD	2.720	36.51	778.7	1.038	4.456	41.23	.2378
#1	733.3	-21.29	10.13	20.68	.1150	.9849	3232.
#2	762.1	-12.55	-7.017	20.98	.1225	1.796	3243.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.7098	-.4859	-.8862	771.7	.8977	1429.	48.10
SDev	.8975	3.8444	.8670	7.0	1.272	20.	.08
%RSD	126.5	791.2	97.84	.9133	141.7	1.419	.1597
#1	.0751	2.232	-.2731	766.7	-.0017	1444.	48.05
#2	1.344	-3.204	-1.499	776.7	1.797	1415.	48.16
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	2.475	695.0	4.556	-1.676	5165.	3.560	4.188
SDev	.500	558.8	1.325	.017	1.	4.600	1.982
%RSD	20.20	80.41	29.09	1.035	.0222	129.2	47.32
#1	2.828	1090.	5.493	-1.663	5164.	6.813	5.590
#2	2.121	299.9	3.618	-1.688	5166.	.3074	2.787
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	170.5	27.38	3.872	.9172
SDev	.8	1.15	1.863	12.92
%RSD	.4674	4.210	48.13	1408.
#1	171.1	28.19	5.189	-8.218
#2	170.0	26.56	2.554	10.05
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	10000.	10000.	10000.
Low	-19.90	-100.0	-25.00	-50.00

Method: SW846 Sample Name: 91156 Operator:

Run Time: 10/28/98 15:55:59

306214

Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	473.8	-8.556	-8.381	14.62	.0448	.9867	2508.
SDev	10.5	12.043	15.276	.07	.0912	1.122	2.
%RSD	2.210	140.8	182.3	.4932	203.4	113.7	.0930
#1	481.2	-.0398	2.421	14.67	.1093	1.780	2507.
#2	466.4	-17.07	-19.18	14.57	-.0196	.1936	2510.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1.721	1.245	1.247	993.4	5.852	712.2	16.02
SDev	.883	4.295	2.425	.5	11.18	29.1	.37
%RSD	51.34	345.0	194.5	.0460	191.0	4.082	2.295
#1	1.096	4.282	2.962	993.1	13.75	732.8	16.28
#2	2.345	-1.792	-.4680	993.7	-2.051	691.7	15.76
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	6.431	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SDev	4.835	986.0	8.061	.601	.	9.619	3.049
%RSD	75.18	183.6	317.9	41.32	.0000	101.4	54.99
#1	9.850	1234.	-3.164	1.878	4035.	16.29	7.700
#2	3.012	-160.3	8.236	1.029	4035.	2.686	3.388
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	16.48	35.75	3.707	12.30
SDev	.90	1.09	1.865	10.60
%RSD	5.455	3.045	50.31	86.17
#1	17.11	36.52	5.026	4.807
#2	15.84	34.98	2.388	19.80
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	10000.	10000.	10000.
Low	-19.90	-100.0	-25.00	-50.00

306215

Method: SW846 Sample Name: 91157 Operator:

Run Time: 10/28/98 16:00:07
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	3442.	-4.824	6.747	16.32	.0112	1.525	6158.
SDev	22.	23.321	6.291	.22	.0741	.097	40.
%RSD	.6282	483.5	93.24	1.323	659.0	6.392	.6442
#1	3427.	11.67	2.298	16.17	.0636	1.456	6130.
#2	3458.	-21.31	11.20	16.47	-.0411	1.594	6186.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	16.96	2.680	7.844	8194.	4.515	1024.	61.54
SDev	1.18	3.164	.353	45.	7.928	12.	.30
%RSD	6.962	118.0	4.505	.5515	175.6	1.168	.4926
#1	17.79	4.918	7.594	8162.	-1.091	1033.	61.33
#2	16.12	.4431	8.094	8226.	10.12	1016.	61.75
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	6.104	779.3	5.193	-.9739	11610.	-8.084	23.03
SDev	5.294	365.1	1.974	.4005	128.	22.591	2.02
%RSD	86.73	46.85	38.02	41.12	1.102	279.5	8.779
#1	9.847	1037.	3.797	-.6907	11700.	-24.06	24.46
#2	2.361	521.1	6.589	-1.257	11520.	7.891	21.60
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	47.20	71.26	5.934	27.74
SDev	.23	3.57	2.793	14.36
%RSD	.4782	5.006	47.07	51.77
#1	47.04	73.78	7.909	37.90
#2	47.36	68.74	3.959	17.59
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	10000.	10000.	10000.
Low	-19.90	-100.0	-25.00	-50.00

306216

Method: SW846 Sample Name: 91158 Operator:
Run Time: 10/28/98 16:04:15
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	145.6	-2.622	-11.39	27.72	.0809	1.781	14790.
SDev	2.6	.378	3.68	.14	.0508	.392	100.
%RSD	1.808	14.42	32.35	.5172	62.80	22.03	.6754
#1	143.7	-2.890	-13.99	27.62	.1169	2.058	14710.
#2	147.4	-2.355	-8.782	27.82	.0450	1.503	14860.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.3766	-.8752	-1.420	64.70	8.938	2517.	25.58
SDev	1.5434	3.8418	.004	2.60	9.674	15.	.07
%RSD	409.8	439.0	.2847	4.025	108.2	.5777	.2839
#1	.7147	1.841	-1.417	62.86	15.78	2527.	25.63
#2	-1.468	-3.592	-1.423	66.55	2.098	2507.	25.53
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	2.052	1947.	-12.45	-1.416	33900.	-16.74	2.570
SDev	7.003	129.	5.65	3.034	66.	5.84	3.239
%RSD	341.2	6.633	45.36	214.3	.1952	34.88	126.0
#1	7.004	2038.	-16.45	-3.561	33950.	-12.61	4.860
#2	-2.899	1856.	-8.458	.7297	33850.	-20.87	.2797
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00

Elem	Zn2138	B_2496	Mo2020	Su1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	9.833	30.62	.8386	14.92
SDev	.150	.46	.9335	7.17
%RSD	1.530	1.499	111.3	48.06
#1	9.727	30.95	1.499	9.849
#2	9.940	30.30	.1786	19.99
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	10000.	10000.	10000.
Low	-19.90	-100.0	-25.00	-50.00

306217

Method: SW846 Sample Name: CCV3 Operator:
Run Time: 10/28/98 16:08:24
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	20390.	5115.	5093.	19870.	505.1	2550.	52230.
SDev	101.	4.	19.	136.	2.3	11.	179.
%RSD	.4974	.0792	.3819	.6822	.4467	.4371	.3426
#1	20320.	5118.	5080.	19780.	503.5	2542.	52100.
#2	20460.	5112.	5107.	19970.	506.7	2558.	52360.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	21090.	5272.	5272.	21090.	527.2	2636.	52720.
Low	18910.	4728.	4728.	18910.	472.8	2364.	47280.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	5058.	5146.	2501.	100400.	10100.	51490.	5165.
SDev	18.	16.	16.	516.	58.	139.	17.
%RSD	.3606	.3174	.6275	.5141	.5780	.2697	.3359
#1	5045.	5134.	2490.	100000.	10060.	51390.	5153.
#2	5071.	5157.	2513.	100700.	10150.	51590.	5177.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5272.	5272.	2636.	105400.	10540.	52720.	5272.
Low	4728.	4728.	2364.	94560.	9456.	47280.	4728.

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	5072.	48420.	4970.	2540.	48660.	5046.	5117.
SDev	20.	268.	12.	13.	151.	13.	18.
%RSD	.3920	.5540	.2423	.5184	.3104	.2493	.3538
#1	5058.	48610.	4962.	2531.	48560.	5055.	5105.
#2	5086.	48230.	4979.	2550.	48770.	5037.	5130.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5272.	52720.	5272.	2636.	52720.	5272.	5272.
Low	4728.	47280.	4728.	2364.	47280.	4728.	4728.

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	24760.	4902.	4929.	5042.
SDev	119.	31.	15.	17.
%RSD	.4813	.6359	.3140	.3443
#1	24680.	4880.	4918.	5029.
#2	24850.	4924.	4940.	5054.
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	26360.	5272.	5272.	5272.
Low	23640.	4728.	4728.	4728.

306218

Method: SW846 Sample Name: CCB3 Operator:
Run Time: 10/28/98 16:12:31
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-17.73	-4.782	-7.789	.6210	-.0143	.3709	-.4478
SDev	9.01	5.246	1.564	.1441	.0057	1.264	3.9659
%RSD	50.84	109.7	20.08	23.21	39.57	340.8	885.6
#1	-11.36	-8.492	-6.683	.7229	-.0183	1.265	2.357
#2	-24.10	-1.073	-8.895	.5191	-.0103	-.5228	-3.252
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	59.90	100.0	50.00	4.900	4.900	500.0
Low	-199.0	-59.90	-100.0	-50.00	-4.900	-4.900	-500.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-2.404	-1.298	-2.050	-4.948	10.08	13.29	.0942
SDev	.666	.044	.521	3.523	1.70	22.63	.2950
%RSD	27.68	3.424	25.40	71.20	16.87	170.3	313.0
#1	-2.875	-1.267	-2.418	-2.457	8.882	29.29	.3028
#2	-1.934	-1.330	-1.681	-7.439	11.29	-2.714	-.1143
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.900	24.90	24.90	99.90	49.90	200.0	4.900
Low	-9.900	-24.90	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.1296	-35.58	-9.364	-.2027	-75.70	2.637	1.493
SDev	.5834	588.62	7.512	.9766	8.94	23.12	2.196
%RSD	450.1	1654.	80.22	481.8	11.82	876.9	147.2
#1	.5421	380.6	-14.68	.4878	-69.37	18.99	3.046
#2	-.2829	-451.8	-4.052	-.8932	-82.02	-13.71	-.0606
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	39.90	2500.	99.90	9.900	1000.	50.00	49.90
Low	-39.90	-2500.	-99.90	-9.900	-1000.	-50.00	-49.90

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	.9809	3.927	4.790	.7770
SDev	.5756	1.495	8.018	4.431
%RSD	58.68	38.07	167.4	570.2
#1	1.388	4.984	10.46	-2.356
#2	.5739	2.870	-.8793	3.910
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	19.90	99.90	25.00	50.00
Low	-19.90	-99.90	-25.00	-50.00

306219

Method: SW846 Sample Name: 91159 Operator:
Run Time: 10/28/98 16:16:39
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1311.	-13.47	-4.575	32.59	.0894	2.253	17730.
SDev	4.	8.00	12.924	.15	.0525	.480	155.
%RSD	.3371	59.38	282.5	.4462	58.74	21.32	.8727
#1	1315.	-7.817	4.564	32.69	.1266	2.593	17620.
#2	1308.	-19.13	-13.71	32.49	.0523	1.914	17840.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	3.560	.1432	-1.141	2276.	-2.480	2506.	6.925
SDev	1.881	4.476	2.768	14.	3.873	2.	.219
%RSD	52.85	3126.	242.7	.6056	156.2	.0684	3.159
#1	4.890	3.308	.8169	2266.	.2590	2505.	7.079
#2	2.229	-3.022	-3.098	2286.	-5.218	2507.	6.770
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1.551	2042.	-16.70	-.4027	31350.	-5.251	9.817
SDev	3.710	497.	13.66	1.3622	60.	14.270	2.606
%RSD	239.1	24.33	81.84	338.3	.1903	271.7	26.55
#1	4.175	2393.	-7.035	.5605	31390.	-15.34	11.66
#2	-1.072	1691.	-26.36	-1.366	31310.	4.839	7.974
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	7.768	66.72	4.906	5.496
SDev	.038	.75	1.118	2.640
%RSD	.4935	1.119	22.79	48.02
#1	7.795	67.24	5.696	7.363
#2	7.741	66.19	4.115	3.630
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	10000.	10000.	10000.
Low	-19.90	-100.0	-25.00	-50.00

306220

Method: SW846 Sample Name: 91160 Operator:
Run Time: 10/28/98 16:20:47
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	42.09	-18.22	2.603	17.95	-.0045	.6315	484.9
SDev	3.81	.92	1.744	.29	.0169	1.322	4.0
%RSD	9.055	5.071	67.03	1.606	373.1	209.3	.8175
#1	39.40	-17.57	1.369	17.74	-.0165	1.566	482.1
#2	44.79	-18.87	3.836	18.15	.0074	-.3033	487.7
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1.856	1.339	.3282	214.7	2.296	215.4	8.546
SDev	1.399	.181	.0001	.3	15.68	.4	.147
%RSD	75.39	13.50	.0314	.1433	683.1	.1964	1.725
#1	.8667	1.211	.3281	214.5	-8.794	215.7	8.441
#2	2.846	1.467	.3283	214.9	13.39	215.1	8.650
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	3.753	1441.	6.170	1.163	1695.	8.297	3.046
SDev	1.125	114.	25.78	.584	12.	20.12	1.092
%RSD	29.99	7.926	315.6	50.19	.6903	242.5	35.84
#1	4.549	1522.	-10.06	.7500	1704.	22.53	2.274
#2	2.957	1361.	26.40	1.575	1687.	-5.931	3.817
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	9.287	18.76	5.602	.8656
SDev	.123	1.64	.559	2.029
%RSD	1.324	8.735	9.979	234.4
#1	9.200	19.91	5.207	-.5689
#2	9.374	17.60	5.998	2.300
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	10000.	10000.	10000.
Low	-19.90	-100.0	-25.00	-50.00

306221

Method: SW846 Sample Name: 91161-2X Operator:
Run Time: 10/28/98 16:24:55
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	4171.	-17.71	22.25	22.57	.1940	.6493	9221.
SDev	4.	5.85	8.93	.14	.0992	.7418	59.
%RSD	.0972	33.00	40.10	.6368	51.14	114.3	.6351
#1	4174.	-21.84	15.94	22.46	.2642	.1247	9180.
#2	4168.	-13.58	28.57	22.67	.1239	1.174	9263.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	7.118	1.590	1.637	5737.	-5.265	1987.	116.4
SDev	1.616	1.990	.004	25.	12.671	11.	.1
%RSD	22.71	125.2	.2304	.4379	240.7	.5331	.0663
#1	8.261	2.997	1.635	5719.	-14.22	1994.	116.4
#2	5.975	.1824	1.640	5755.	3.695	1979.	116.5
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	4.563	1837.	.0154	-.6218	47880.	-.0342	33.40
SDev	.542	579.	14.99	1.9142	129.	2.7484	.04
%RSD	11.88	31.51	97550.	307.9	.2692	8031.	.1343
#1	4.179	2246.	10.61	.7318	47790.	1.909	33.43
#2	4.946	1427.	-10.58	-1.975	47970.	-1.978	33.36
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	229.5	33.53	5.707	4.950
SDev	1.3	.02	1.117	14.19
%RSD	.5867	.0639	19.57	286.6
#1	228.5	33.54	6.496	14.98
#2	230.4	33.51	4.917	-5.081
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	10000.	10000.	10000.
Low	-19.90	-100.0	-25.00	-50.00

306222

Method: SW846 Sample Name: 91162 Operator:
Run Time: 10/28/98 16:29:03
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	2396.	-15.34	23.78	11.10	.0506	-.4487	22200.
SDev	2.	9.67	18.95	.22	.0970	.4074	124.
%RSD	.0717	63.02	79.69	1.940	191.8	90.80	.5602
#1	2395.	-8.506	10.38	10.94	.1191	-.7368	22110.
#2	2397.	-22.18	37.18	11.25	-.0180	-.1606	22290.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.2836	1.152	.4807	1373.	-.7002	2947.	7.290
SDev	.6809	2.806	.1713	6.	5.5940	3.	.219
%RSD	240.1	243.6	35.63	.4571	798.9	.0911	3.006
#1	-.7651	3.136	.3596	1369.	3.255	2949.	7.445
#2	.1979	-.8321	.6018	1378.	-4.656	2945.	7.135
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	8.003	2943.	.0795	-1.540	52270.	-3.963	3.453
SDev	4.335	216.	8.847	1.332	410.	21.586	.903
%RSD	54.17	7.342	11130.	86.46	.7853	544.6	26.14
#1	4.937	3096.	6.336	-2.482	51980.	11.30	4.091
#2	11.07	2790.	-6.177	-.5985	52560.	-19.23	2.815
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	35.28	67.22	4.532	18.58
SDev	.69	1.03	1.490	13.28
%RSD	1.960	1.533	32.89	71.46
#1	34.79	66.49	5.585	27.97
#2	35.77	67.95	3.478	9.194
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	10000.	10000.	10000.
Low	-19.90	-100.0	-25.00	-50.00

306223

Method: SW846 Sample Name: 91163 Operator:
Run Time: 10/28/98 16:33:11
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	191.4	-8.931	-4.814	9.008	.0383	1.193	9285.
SDev	2.6	3.077	2.345	.288	.1171	.728	42.
%RSD	1.353	34.45	48.71	3.197	305.6	61.01	.4574
#1	193.3	-6.755	-6.473	8.804	.1211	1.708	9255.
#2	189.6	-11.11	-3.156	9.211	-.0445	.6786	9315.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.2782	1.379	1.167	3747.	8.593	1312.	8.166
SDev	.9341	.407	.003	21.	2.368	6.	.003
%RSD	335.8	29.53	.2956	.5559	27.55	.4309	.0392
#1	.3823	1.667	1.164	3732.	6.919	1316.	8.164
#2	-.9387	1.091	1.169	3762.	10.27	1308.	8.168
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	5.364	1793.	1.671	.2128	9032.	1.110	2.777
SDev	.584	308.	12.93	1.155	56.	2.732	.766
%RSD	10.88	17.18	773.9	542.6	.6245	246.1	27.60
#1	5.777	1575.	-7.474	1.029	8992.	-.8217	3.318
#2	4.952	2010.	10.82	-.6036	9072.	3.041	2.235
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	8.752	72.98	2.432	9.796
SDev	.146	.75	2.613	2.743
%RSD	1.665	1.028	107.4	28.00
#1	8.649	72.45	.5842	11.74
#2	8.855	73.51	4.279	7.856
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	10000.	10000.	10000.
Low	-19.90	-100.0	-25.00	-50.00

306224

Method: SW846 Sample Name: 91164 Operator:
Run Time: 10/28/98 16:37:19
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	7059.	1.101	1.891	129.5	.2626	.8057	H177400.
SDev	81.	31.00	3.302	1.3	.0350	.1118	1134.
%RSD	1.153	2815.	174.6	.9951	13.31	13.87	.6391
#1	7002.	23.02	4.226	128.6	.2873	.8848	H176600.
#2	7117.	-20.82	-.4439	130.4	.2379	.7267	H178200.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	16.28	3.859	2.631	3729.	12.76	4851.	162.2
SDev	.90	3.167	2.071	29.	3.48	3.	.1
%RSD	5.527	82.06	78.71	.7723	27.29	.0525	.0528
#1	15.65	6.098	4.095	3709.	15.22	4850.	162.2
#2	16.92	1.620	1.167	3749.	10.29	4853.	162.3
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	9.489	3017.	-6.534	-2.156	7212.	-12.70	13.25
SDev	1.459	673.	.745	.750	33.	24.71	1.81
%RSD	15.38	22.31	11.40	34.76	.4550	194.6	13.64
#1	10.52	3493.	-6.008	-2.686	7236.	-30.17	14.53
#2	8.457	2541.	-7.061	-1.626	7189.	4.774	11.98
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	29.35	29.17	6.903	11.12
SDev	.54	.72	2.980	15.95
%RSD	1.836	2.454	43.17	143.4
#1	29.73	29.68	9.010	22.39
#2	28.97	28.67	4.796	-.1568
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	10000.	10000.	10000.
Low	-19.90	-100.0	-25.00	-50.00

306225

Method: SW846 Sample Name: 91165 Operator:
Run Time: 10/28/98 16:41:27
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.7273	-20.15	-22.09	.0092	-.0133	.4118	26.77
SDev	9.2788	9.85	19.50	.0000	.0016	.7249	3.27
%RSD	1276.	48.87	88.28	.2855	12.12	176.0	12.20
#1	-7.288	-27.11	-8.299	.0091	-.0144	-.1007	29.08
#2	5.834	-13.19	-35.87	.0092	-.0122	.9244	24.46
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.6960	-1.075	-.5776	9.033	1.862	21.57	.7211
SDev	.1075	.272	.1723	2.142	7.734	5.22	.1456
%RSD	15.45	25.28	29.83	23.71	415.3	24.21	20.18
#1	-.7720	-.8829	-.6994	7.519	7.331	25.27	.8241
#2	-.6200	-1.267	-.4557	10.55	-3.606	17.88	.6182
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	3.490	301.6	-9.526	-.8837	-11.55	-10.02	1.051
SDev	.917	330.3	.273	.3875	7.31	10.25	.568
%RSD	26.28	109.5	2.867	43.85	63.31	102.3	54.10
#1	2.841	535.2	-9.719	-.6097	-6.379	-2.770	1.453
#2	4.138	68.04	-9.333	-1.158	-16.72	-17.26	.6487
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	3.058	4.342	.5725	10.29
SDev	.457	.774	2.052	6.66
%RSD	14.94	17.84	358.4	64.75
#1	3.382	4.889	-.8784	15.00
#2	2.735	3.794	2.023	5.579
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	10000.	10000.	10000.
Low	-19.90	-100.0	-25.00	-50.00

306226

Method: SW846 Sample Name: 91167 Operator:
Run Time: 10/28/98 16:45:34
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	848.4	-8.328	-13.78	9.908	.0301	.6512	17820.
SDev	.3	9.287	14.90	.072	.0793	.4255	62.
%RSD	.0300	111.5	108.1	.7225	263.8	65.34	.3458
#1	848.2	-1.761	-24.32	9.857	.0862	.9521	17770.
#2	848.5	-14.90	-3.245	9.958	-.0260	.3503	17860.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.7269	1.057	.1867	7351.	8.005	2002.	46.34
SDev	1.155	1.492	.1713	12.	12.68	4.	.08
%RSD	158.9	141.2	91.74	.1646	158.4	.1784	.1627
#1	1.543	2.112	.3078	7342.	16.97	2004.	46.29
#2	-.0897	.0019	.0656	7360.	-.9621	1999.	46.39
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	8.836	1109.	13.17	1.451	12760.	-15.14	5.791
SDev	1.334	296.	6.96	.573	106.	9.03	.069
%RSD	15.10	26.64	52.82	39.51	.8348	59.65	1.193
#1	9.780	1318.	18.09	1.045	12830.	-8.754	5.840
#2	7.893	900.5	8.250	1.856	12680.	-21.53	5.743
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	129.2	29.45	2.243	6.318
SDev	.3	.05	1.864	4.315
%RSD	.2055	.1729	83.08	68.31
#1	129.0	29.49	3.561	9.369
#2	129.4	29.42	.9255	3.266
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	10000.	10000.	10000.
Low	-19.90	-100.0	-25.00	-50.00

306227

Method: SW846 Sample Name: 90679 Operator:
Run Time: 10/28/98 16:49:42
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	201.1	-12.55	-5.879	45.92	.1078	.0426	1295.
SDev	5.5	2.36	21.626	.22	.2172	.6025	5.
%RSD	2.755	18.84	367.9	.4710	201.5	1415.	.3966
#1	197.2	-10.88	9.413	46.07	.2614	-.3835	1291.
#2	205.0	-14.22	-21.17	45.77	-.0458	.4686	1298.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.6297	3.489	-.7440	312.8	21.96	238.9	20.26
SDev	1.276	1.719	.5174	.6	5.38	12.8	.07
%RSD	202.6	49.26	69.54	.1959	24.50	5.363	.3588
#1	1.532	4.704	-1.110	312.3	25.76	248.0	20.31
#2	-.2725	2.274	-.3782	313.2	18.16	229.8	20.21
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	5.079	2267.	6.279	1.431	1898.	17.32	3.004
SDev	1.417	522.	34.10	.196	11.	14.26	.509
%RSD	27.90	23.01	543.2	13.69	.5654	82.32	16.95
#1	4.077	2636.	30.39	1.569	1905.	27.40	3.364
#2	6.082	1898.	-17.84	1.292	1890.	7.238	2.644
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	16.04	8.481	.2044	13.85
SDev	.68	1.173	2.237	5.26
%RSD	4.265	13.83	1095.	37.98
#1	16.52	7.651	1.786	17.57
#2	15.55	9.310	-1.377	10.13
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	10000.	10000.	10000.
Low	-19.90	-100.0	-25.00	-50.00

306228

Method: SW846 Sample Name: 90680 Operator:
Run Time: 10/28/98 16:53:50
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	6.827	-16.94	-10.59	.1111	.0293	-.0961	21.16
SDev	6.809	8.92	20.30	.1442	.1341	.6323	2.33
%RSD	99.74	52.67	191.6	129.7	458.0	658.1	11.01
#1	11.64	-10.63	3.761	.0092	.1241	.3510	22.81
#2	2.012	-23.25	-24.94	.2131	-.0656	-.5432	19.52
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.1182	2.123	-1.549	18.02	7.479	4.148	.6717
SDev	2.217	.903	.173	1.38	5.809	6.272	.3682
%RSD	1876.	42.56	11.16	7.663	77.68	151.2	54.82
#1	1.686	2.761	-1.427	19.00	11.59	8.583	.9320
#2	-1.449	1.484	-1.671	17.05	3.371	-.2873	.4113
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	4.345	110.2	-5.523	1.009	-10.63	-3.686	.8754
SDev	1.876	650.7	24.172	.749	3.42	20.096	1.864
%RSD	43.17	590.6	437.7	74.23	32.14	545.3	213.0
#1	5.671	570.3	11.57	.4795	-8.213	-17.90	2.194
#2	3.018	-349.9	-22.61	1.539	-13.04	10.52	-.4429
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	4.409	3.199	-.2181	4.729
SDev	.193	.707	4.2891	19.13
%RSD	4.377	22.09	1967.	404.6
#1	4.545	3.699	2.815	18.26
#2	4.272	2.699	-3.251	-8.800
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	10000.	10000.	10000.
Low	-19.90	-100.0	-25.00	-50.00

306229

Method: SW846 Sample Name: CCV4 Operator:
Run Time: 10/28/98 16:57:58
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	20310.	5057.	5031.	19810.	499.4	2532.	51420.
SDev	47.	49.	18.	12.	.6	2.	107.
%RSD	.2327	.9613	.3538	.0615	.1102	.0913	.2083
#1	20280.	5091.	5044.	19810.	499.0	2531.	51350.
#2	20350.	5023.	5019.	19820.	499.8	2534.	51500.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	21090.	5272.	5272.	21090.	527.2	2636.	52720.
Low	18910.	4728.	4728.	18910.	472.8	2364.	47280.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	4987.	5096.	2509.	99610.	9979.	51100.	5121.
SDev	7.	17.	1.	217.	67.	308.	7.
%RSD	.1441	.3264	.0303	.2180	.6739	.6023	.1443
#1	4982.	5084.	2508.	99460.	9932.	51320.	5115.
#2	4992.	5108.	2509.	99770.	10030.	50880.	5126.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5272.	5272.	2636.	105400.	10540.	52720.	5272.
Low	4728.	4728.	2364.	94560.	9456.	47280.	4728.

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	5008.	49310.	4981.	2528.	49600.	5061.	5077.
SDev	2.	206.	4.	1.	260.	18.	2.
%RSD	.0400	.4180	.0787	.0538	.5248	.3639	.0447
#1	5006.	49460.	4978.	2527.	49410.	5048.	5075.
#2	5009.	49170.	4984.	2529.	49780.	5074.	5078.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5272.	52720.	5272.	2636.	52720.	5272.	5272.
Low	4728.	47280.	4728.	2364.	47280.	4728.	4728.

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	24660.	4882.	4875.	5031.
SDev	68.	11.	15.	7.
%RSD	.2754	.2158	.3173	.1449
#1	24610.	4875.	4864.	5026.
#2	24710.	4890.	4886.	5036.
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	26360.	5272.	5272.	5272.
Low	23640.	4728.	4728.	4728.

306230

Method: SW846 Sample Name: CCB4 Operator:
Run Time: 10/28/98 17:02:06
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-9.350	-4.527	.2752	.4171	.0311	-.2964	-.6128
SDev	2.673	13.644	11.02	.2883	.1301	.7654	.9320
%RSD	28.59	301.4	4005.	69.12	418.9	258.2	152.1
#1	-11.24	-14.17	-7.519	.6210	.1231	-.8376	.0463
#2	-7.459	5.121	8.069	.2133	-.0610	.2448	-1.272
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	59.90	100.0	50.00	4.900	4.900	500.0
Low	-199.0	-59.90	-100.0	-50.00	-4.900	-4.900	-500.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-2.012	.9720	-3.881	-7.874	-2.526	4.292	-.0611
SDev	.303	4.704	1.388	.919	4.530	16.84	.2201
%RSD	15.04	484.0	35.75	11.67	179.4	392.3	360.4
#1	-2.226	4.298	-2.900	-7.224	.6775	16.20	.0945
#2	-1.798	-2.354	-4.862	-8.524	-5.729	-7.614	-.2167
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.900	24.90	24.90	99.90	49.90	200.0	4.900
Low	-9.900	-24.90	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1.014	-128.7	4.111	.3284	-62.93	20.86	.3053
SDev	2.501	769.9	5.105	1.310	55.92	5.24	3.361
%RSD	246.7	598.4	124.2	399.0	88.86	25.10	1101.
#1	-.7547	415.8	.5012	-.5981	-23.39	24.56	2.682
#2	2.783	-673.1	7.720	1.255	-102.5	17.16	-2.072
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	39.90	2500.	99.90	9.900	1000.	50.00	49.90
Low	-39.90	-2500.	-99.90	-9.900	-1000.	-50.00	-49.90

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	.8952	2.429	5.318	9.559
SDev	1.751	2.654	4.660	1.283
%RSD	195.6	109.3	87.63	13.42
#1	2.134	4.305	8.613	10.47
#2	-.3432	.5525	2.023	8.652
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	19.90	99.90	25.00	50.00
Low	-19.90	-99.90	-25.00	-50.00

306231

Method: SW846 Sample Name: 90838-4X Operator:
Run Time: 10/28/98 17:06:14
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	2519.	-5.845	-11.91	145.3	1.038	5.163	23490.
SDev	15.	20.729	15.53	1.4	.236	1.198	46.
%RSD	.5984	354.6	130.4	.9421	22.75	23.21	.1957
#1	2509.	8.813	-22.89	144.4	1.205	6.010	23460.
#2	2530.	-20.50	-.9258	146.3	.8707	4.315	23520.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	87.15	6.895	54.35	37840.	53.70	10370.	193.0
SDev	3.01	1.811	.80	284.	14.64	32.	.4
%RSD	3.457	26.26	1.471	.7508	27.27	.3131	.2141
#1	89.28	8.175	54.91	37640.	64.05	10340.	192.7
#2	85.02	5.614	53.78	38040.	43.34	10390.	193.3
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	32.08	26640.	-.1155	.3578	61410.	-10.06	7.159
SDev	2.38	243.	32.185	1.347	1383.	5.13	.857
%RSD	7.407	.9136	27870.	376.5	2.253	50.95	11.98
#1	30.40	26810.	22.64	1.310	60430.	-6.437	7.766
#2	33.76	26470.	-22.87	-.5947	62390.	-13.69	6.553
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	1423.	5426.	40.98	1.947
SDev	11.	46.	.21	21.37
%RSD	.8072	.8414	.5193	1097.
#1	1415.	5394.	40.83	-13.16
#2	1431.	5459.	41.13	17.06
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	10000.	10000.	10000.
Low	-19.90	-100.0	-25.00	-50.00

306232

Method: SW846 Sample Name: 90839-4X Operator:
Run Time: 10/28/98 17:10:23
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	7533.	-12.42	-15.76	49.22	.2229	1.545	41070.
SDev	54.	1.10	8.13	.57	.0851	.019	530.
%RSD	.7156	8.844	51.55	1.163	38.18	1.200	1.289
#1	7495.	-13.20	-21.51	45.82	.1627	1.532	40700.
#2	7571.	-11.64	-10.02	49.63	.2831	1.558	41450.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40000.	10000.	10000.	40000.	1000.	5000.	100000.
Low	-199.9	-59.90	-100.0	-50.00	-4.900	-4.900	-200.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	39.86	3.186	61.02	9213.	19.52	3032.	173.9
SDev	.66	1.853	.50	83.	10.07	34.	1.6
%RSD	1.666	58.16	.8151	.9047	51.59	1.118	.8974
#1	39.39	1.876	61.37	9154.	12.40	3008.	172.8
#2	40.33	4.496	60.66	9272.	26.65	3056.	175.0
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	5000.	200000.	20000.	100000.	10000.
Low	-9.900	-25.00	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	21.44	2924.	18.08	.6546	79750.	-.1174	17.43
SDev	1.92	139.	16.48	3.427	534.	.5530	2.05
%RSD	8.941	4.757	91.15	401.0	.6697	471.2	11.75
#1	20.09	3022.	29.74	-1.569	80120.	-.5084	18.87
#2	22.80	2825.	6.429	3.278	79370.	.2736	15.98
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	100000.	10000.	5000.	100000.	10000.	10000.
Low	-39.90	-2500.	-100.0	-9.900	-1000.	-100.0	-50.00

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	170.3	25.87	11.53	29.98
SDev	3.0	.49	2.43	.29
%RSD	1.747	1.912	21.10	.9579
#1	168.2	25.52	9.808	29.77
#2	172.4	26.22	13.25	30.18
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	10000.	10000.	10000.
Low	-19.90	-100.0	-25.00	-50.00

306233

Method: SW846 Sample Name: ICSA2 Operator:
Run Time: 10/28/98 17:14:31
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	509500.	46.41	11.08	.6765	-.0064	-1.237	521900.
SDev	1357.	15.33	70.61	.0313	.0835	.936	5096.
%RSD	.2664	33.02	637.4	4.629	1295.	75.82	.9765
#1	508600.	57.25	61.00	.6543	-.0655	-1.901	518300.
#2	510500.	35.58	-38.85	.6986	.0526	-.5740	525500.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600000.	120.0	150.0	500.0	10.00	10.00	600000.
Low	400000.	-120.0	-150.0	-500.0	-10.00	-10.00	400000.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-3.181	1.223	9.135	187000.	2.760	522900.	-3.580
SDev	1.926	1.627	.903	575.	23.14	1947.	1.506
%RSD	60.54	133.0	9.886	.3078	838.4	.3723	42.08
#1	-4.543	2.374	9.774	186600.	19.12	521500.	-2.515
#2	-1.819	.0730	8.496	187400.	-13.60	524300.	-4.645
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	20.00	20.00	50.00	240000.	100.0	600000.	9.900
Low	-20.00	-20.00	-50.00	160000.	-100.0	400000.	-9.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	11.84	15.35	-68.85	-1.624	85.27	95.68	9.089
SDev	4.56	99.34	25.42	.778	16.70	8.27	1.478
%RSD	38.52	647.1	36.92	47.91	19.59	8.646	16.26
#1	15.07	-54.90	-50.88	-1.074	97.08	89.83	10.13
#2	8.616	85.60	-86.82	-2.174	73.46	101.5	8.044
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	80.00	5000.	200.0	10.00	2000.	200.0	100.0
Low	-80.00	-5000.	-200.0	-10.00	-2000.	-200.0	-100.0

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	-.8366	-13.76	15.08	5.032
SDev	.4768	7.95	.25	15.24
%RSD	56.99	57.73	1.652	302.9
#1	-.4994	-8.144	14.90	15.81
#2	-1.174	-19.38	15.25	-5.746
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	40.00	100.0	50.00	100.0
Low	-40.00	-100.0	-50.00	-100.0

306234

Method: SW846 Sample Name: ICSAB2 Operator:
Run Time: 10/28/98 17:18:39
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	509700.	1045.	967.3	481.0	487.2	516.1	520600.
SDev	1199.	63.	82.1	.3	1.0	1.0	1630.
%RSD	.2352	6.051	8.490	.0572	.2031	.1956	.3130
#1	508900.	1090.	1025.	480.8	486.5	515.4	519500.
#2	510600.	1000.	909.2	481.2	487.9	516.8	521800.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600000.	1200.	1200.	600.0	600.0	600.0	600000.
Low	400000.	800.0	800.0	400.0	400.0	400.0	400000.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	480.6	496.7	521.9	186900.	499.1	520700.	490.2
SDev	.6	1.8	2.3	407.	3.9	394.	1.0
%RSD	.1234	.3563	.4497	.2176	.7891	.0756	.1995
#1	480.1	495.4	520.3	186600.	501.9	520400.	489.6
#2	481.0	497.9	523.6	187200.	496.3	520900.	490.9
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.0	600.0	600.0	240000.	600.0	600000.	600.0
Low	400.0	400.0	400.0	160000.	400.0	400000.	400.0

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	477.3	9987.	891.6	524.0	10210.	1033.	507.1
SDev	16.8	50.	24.4	2.9	2.	.	1.4
%RSD	3.520	.4974	2.739	.5501	.0191	.0010	.2787
#1	489.2	9952.	908.9	522.0	10200.	1033.	506.1
#2	465.5	10020.	874.4	526.1	10210.	1033.	508.1
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.0	12000.	1200.	600.0	12000.	1200.	600.0
Low	400.0	8000.	800.0	400.0	8000.	800.0	400.0

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	509.6	479.1	512.2	1023.
SDev	2.1	3.8	2.4	18.
%RSD	.4095	.7917	.4655	1.783
#1	508.2	481.8	513.9	1010.
#2	511.1	476.5	510.6	1036.
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	600.0	600.0	600.0	1200.
Low	400.0	400.0	400.0	800.0

306235

Method: SW846 Sample Name: CCV5 Operator:
Run Time: 10/28/98 17:22:47
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	20150.	5060.	4979.	19810.	497.3	2518.	51360.
SDev	149.	4.	18.	134.	3.4	18.	430.
%RSD	.7391	.0765	.3631	.6745	.6813	.7088	.8376
#1	20050.	5058.	4992.	19720.	494.9	2506.	51050.
#2	20260.	5063.	4966.	19910.	499.7	2531.	51660.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	21090.	5272.	5272.	21090.	527.2	2636.	52720.
Low	18910.	4728.	4728.	18910.	472.8	2364.	47280.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	4970.	5079.	2503.	99320.	9962.	50770.	5102.
SDev	40.	36.	9.	599.	90.	207.	37.
%RSD	.7959	.7001	.3730	.6033	.8995	.4076	.7234
#1	4942.	5053.	2496.	98900.	9899.	50630.	5076.
#2	4997.	5104.	2509.	99740.	10030.	50920.	5128.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5272.	5272.	2636.	105400.	10540.	52720.	5272.
Low	4728.	4728.	2364.	94560.	9456.	47280.	4728.

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	4994.	48320.	4941.	2527.	49200.	4987.	5068.
SDev	20.	65.	16.	16.	164.	15.	33.
%RSD	.3915	.1336	.3175	.6171	.3337	.2930	.6499
#1	4980.	48280.	4930.	2516.	49090.	4976.	5045.
#2	5007.	48370.	4952.	2538.	49320.	4997.	5092.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5272.	52720.	5272.	2636.	52720.	5272.	5272.
Low	4728.	47280.	4728.	2364.	47280.	4728.	4728.

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	24620.	4873.	4866.	5034.
SDev	168.	28.	41.	22.
%RSD	.6805	.5665	.8429	.4432
#1	24500.	4853.	4837.	5018.
#2	24730.	4892.	4895.	5049.
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	26360.	5272.	5272.	5272.
Low	23640.	4728.	4728.	4728.

306236

Method: SW846 Sample Name: CCB5 Operator:
Run Time: 10/28/98 17:26:56
Comment: 7096E1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	4.539	-12.27	-13.22	.1622	.0165	-.4394	4.005
SDev	16.89	4.18	1.91	.3604	.1502	1.2591	6.994
%RSD	372.0	34.08	14.45	222.1	908.8	286.6	174.6
#1	16.48	-9.315	-14.57	.4170	.1228	.4509	8.951
#2	-7.401	-15.23	-11.87	-.0926	-.0897	-1.330	-.9405
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	59.90	100.0	50.00	4.900	4.900	500.0
Low	-199.0	-59.90	-100.0	-50.00	-4.900	-4.900	-500.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.5412	-.1470	-3.638	-4.298	3.242	9.901	.0966
SDev	3.8509	1.6712	2.074	1.991	15.70	32.76	.2954
%RSD	711.6	1137.	57.02	46.32	484.2	330.9	305.9
#1	2.182	1.035	-2.171	-2.890	14.34	33.07	.3055
#2	-3.264	-1.329	-5.104	-5.706	-7.859	-13.26	-.1123
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.900	24.90	24.90	99.90	49.90	200.0	4.900
Low	-9.900	-24.90	-24.90	-99.90	-49.90	-200.0	-4.900

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	Tl1908	V_2924
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.0117	-190.1	-5.566	-1.971	-69.83	14.20	.4801
SDev	2.417	688.0	3.762	4.239	41.95	19.34	3.293
%RSD	20600.	361.9	67.59	215.1	60.07	136.2	686.0
#1	1.721	296.3	-2.906	1.027	-40.17	27.87	2.809
#2	-1.698	-676.6	-8.226	-4.968	-99.49	.5288	-1.849
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	39.90	2500.	99.90	9.900	1000.	50.00	49.90
Low	-39.90	-2500.	-99.90	-9.900	-1000.	-50.00	-49.90

Elem	Zn2138	B_2496	Mo2020	Sn1899
Units	ug/L	ug/L	ug/L	ug/L
Avge	.8457	2.604	5.845	5.911
SDev	.5337	2.270	8.391	6.939
%RSD	63.11	87.21	143.6	117.4
#1	1.223	4.209	11.78	10.82
#2	.4683	.9981	-.0881	1.004
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	19.90	99.90	25.00	50.00
Low	-19.90	-99.90	-25.00	-50.00

306237

File : ~~7097T1~~ 70962 .WSL

Qn 10/29/98

RAW DATA WITH 7097

File Record	Laboratory Sample Name	Customer/EPA Sample Name	Type	Matrix	Instrument Dil.	Date	Time	Flag
1	STD1-BLANK		3		1.0	10/29/98	00:45:00	
2	STD2		3		1.0	10/29/98	00:50:00	
3	STD3		3		1.0	10/29/98	00:55:00	
4	STD4		3		1.0	10/29/98	01:01:00	
5	HSA		0		1.0	10/29/98	01:08:00	
6	ICV/CCV1		0		1.0	10/29/98	01:13:00	
7	ICB/CCB1		0		1.0	10/29/98	01:18:00	
8	ICSA1		0		1.0	10/29/98	01:24:00	
9	ICSAB1		0		1.0	10/29/98	01:29:00	
10	INT-20		0		1.0	10/29/98	01:35:00	
11	MCL		0		1.0	10/29/98	01:40:00	
12	BSW102798		0		1.0	10/29/98	01:45:00	
13	PBW102798		0		1.0	10/29/98	01:51:00	
14	LCSW		0		1.0	10/29/98	01:56:00	
15	90328D		0		1.0	10/29/98	02:01:00	
16	90328		0		1.0	10/29/98	02:07:00	
17	90328L		0		1.0	10/29/98	02:12:00	
18	CCV2		0		1.0	10/29/98	02:18:00	
19	CCB2		0		1.0	10/29/98	02:23:00	
20	90328MS		0		1.0	10/29/98	02:28:00	
21	90328MSD		0		1.0	10/29/98	02:34:00	
22	90328A		0		1.0	10/29/98	02:39:00	
23	90329		0		1.0	10/29/98	02:44:00	
24	90330		0		1.0	10/29/98	02:50:00	
25	90838 - K, Zn		0		2.0	10/29/98	02:55:00	
26	90101		0		1.0	10/29/98	03:01:00	
27	90101L		0		1.0	10/29/98	03:06:00	
28	CCV3		0		1.0	10/29/98	03:11:00	
29	CCB3		0		1.0	10/29/98	03:17:00	
30	89743		0		5.0	10/29/98	03:22:00	
31	89742		0		5.0	10/29/98	03:27:00	
32	ICSA2		0		1.0	10/29/98	03:33:00	
33	ICSAB2		0		1.0	10/29/98	03:38:00	
34	CCV4		0		1.0	10/29/98	03:44:00	
35	CCB4		0		1.0	10/29/98	03:49:00	

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#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	HSA	7102T1	SW846	10/29/98	01:08		S	CONC
2	ICV/CCV1	7102T1	SW846	10/29/98	01:13		S	CONC
3	ICB/CCB1	7102T1	SW846	10/29/98	01:18		S	CONC
4	ICSA1	7102T1	SW846	10/29/98	01:24		S	CONC
5	ICSAB1	7102T1	SW846	10/29/98	01:29		S	CONC
6	INT-20	7102T1	SW846	10/29/98	01:35		S	CONC
7	MCL	7102T1	SW846	10/29/98	01:40		S	CONC
8	BSW102798	7102T1	SW846	10/29/98	01:45		S	CONC
9	PBW102798	7102T1	SW846	10/29/98	01:51		S	CONC
10	LCSW	7102T1	SW846	10/29/98	01:56		S	CONC
11	90328D	7102T1	SW846	10/29/98	02:01		S	CONC
12	90328	7102T1	SW846	10/29/98	02:07		S	CONC
13	90328L	7102T1	SW846	10/29/98	02:12		S	CONC
14	CCV2	7102T1	SW846	10/29/98	02:18		S	CONC
15	CCB2	7102T1	SW846	10/29/98	02:23		S	CONC
16	90328MS	7102T1	SW846	10/29/98	02:28		S	CONC
17	90328MSD	7102T1	SW846	10/29/98	02:34		S	CONC
18	90328A	7102T1	SW846	10/29/98	02:39		S	CONC
19	90329	7102T1	SW846	10/29/98	02:44		S	CONC
20	90330	7102T1	SW846	10/29/98	02:50		S	CONC
21	90838-2X-7096	7102T1	SW846	10/29/98	02:55		S	CONC
22	90101-7091	7102T1	SW846	10/29/98	03:01		S	CONC
23	90101L	7102T1	SW846	10/29/98	03:06		S	CONC
24	CCV3	7102T1	SW846	10/29/98	03:11		S	CONC
25	CCB3	7102T1	SW846	10/29/98	03:17		S	CONC
26	89743-5X-7080	7102T1	SW846	10/29/98	03:22		S	CONC
27	89742-5X	7102T1	SW846	10/29/98	03:27		S	CONC
28	ICSA2	7102T1	SW846	10/29/98	03:33		S	CONC
29	ICSAB2	7102T1	SW846	10/29/98	03:38		S	CONC
30	CCV4	7102T1	SW846	10/29/98	03:44		S	CONC
31	CCB4	7102T1	SW846	10/29/98	03:49		S	CONC

Gu
10/29/98

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#	Sample Name	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179
1	HSA	487900.	9890.	19380.	1966.	4850.	243300.
2	ICV/CCV1	250600.	4903.	10110.	975.6	2469.	125800.
3	ICB/CCB1	7.388	2.461	.6224	-.0060	.1175	-8.042
4	ICSA1	496400.	4.181	4.409	-.1499	-.1466	459800.
5	ICSAB1	512700.	100.7	112.1	98.35	95.84	462900.
6	INT-20	79.15	2.383	-2.691	16.39	-.0434	61.99
7	MCL	188.7	26.36	52.34	4.106	5.181	5279.
8	BSW102798	2078.	1930.	2072.	53.58	52.44	20970.
9	PBW102798	-28.13	1.267	-.4903	-.1212	-.4223	-1.616
10	LCSW	997.7	979.6	1019.	988.2	1002.	1008.
11	90328D	76.71	1.706	54.49	.0168	-.1731	6287.
12	90328	53.57	.3935	51.66	-.0401	-.3375	5914.
13	90328L	-16.43	.3961	10.20	-.1112	-.3088	1235.
14	CCV2	251100.	4915.	10190.	977.7	2471.	126100.
15	CCB2	-.1518	1.630	-.0255	-.0742	-.1604	-18.14
16	90328MS	2111.	1858.	2137.	52.34	50.49	26770.
17	90328MSD	2004.	1813.	2021.	50.38	49.02	25790.
18	90328A	1982.	1616.	1997.	50.06	49.05	25480.
19	90329	175.1	.1058	51.59	-.0138	-.2026	5459.
20	90330	38.69	.8888	32.41	-.0472	-.2164	2896.
21	90838-2X-7096	5230.	4.024	308.5	2.013	8.469	46470.
22	90101-7091	13310.	11.61	232.7	.6708	-.2568	45910.
23	90101L	2687.	2.997	46.78	.0673	-.3056	9459.
24	CCV3	246500.	4796.	10030.	955.9	2415.	123500.
25	CCB3	-7.001	.8388	-.0545	-.0645	-.1096	-16.14
26	89743-5X-7080	9998.	21.95	197.1	.5936	6.423	23030.
27	89742-5X	8934.	17.98	224.8	.5419	10.15	14540.
28	ICSA2	485400.	1.829	3.839	-.1468	.2931	443200.
29	ICSAB2	500900.	100.8	108.9	97.15	94.57	457400.
30	CCV4	249500.	4999.	9982.	988.3	2526.	127200.
31	CCB4	8.850	-.4087	.0328	-.0692	.0244	2.235

#	Sample Name	Cr2677	Co2286	Cu3247	Fe2714	Mg2790	Mn2576
1	HSA	9842.	4855.	25150.	193000.	251500.	9786.
2	ICV/CCV1	5122.	2498.	12430.	99060.	124700.	5072.
3	ICB/CCB1	.2594	-.0760	.8981	-2.388	1.448	.1917
4	ICSA1	.3747	.5657	-1.744	189700.	508200.	1.236
5	ICSAB1	98.60	96.85	101.5	198200.	524600.	99.51
6	INT-20	20050.	20500.	-7.941	-168.2	-7.013	19160.
7	MCL	23.58	56.69	50.65	183.6	4977.	22.18
8	BSW102798	212.7	528.0	255.6	1066.	20240.	524.0
9	PBW102798	.4987	-.5058	-1.255	-54.13	-22.79	.0125
10	LCSW	993.7	1015.	975.4	987.4	945.8	993.8
11	90328D	1.278	.0436	.7113	103.7	1963.	15.83
12	90328	1.198	-.1417	.4068	61.26	1826.	14.57
13	90328L	-.0999	-.1122	-.0751	5.029	367.6	2.666
14	CCV2	5131.	2500.	12470.	100300.	125300.	5073.
15	CCB2	-.0605	.2162	.4203	-.5129	-.9451	-.1729
16	90328MS	205.4	516.5	250.8	1085.	21770.	524.5
17	90328MSD	198.2	497.6	240.3	1038.	20990.	505.4
18	90328A	198.0	494.7	239.6	993.9	20770.	502.5

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#	Sample Name	Cr2677	Co2286	Cu3247	Fe2714	Mg2790	Mn2576
19	90329	1.098	-.1363	.4498	224.2	1795.	28.29
20	90330	.6176	-.2002	.9092	87.78	1187.	14.21
21	90838-2X-7096	178.3	12.66	113.0	76190.	19910.	388.8
22	90101-7091	155.7	15.02	32.19	27740.	24210.	2173.
23	90101L	31.97	3.291	6.249	5839.	4927.	442.1
24	CCV3	5016.	2449.	12210.	99010.	122600.	4962.
25	CCB3	-.2495	-.0675	.2990	-8.803	-5.718	-.1229
26	89743-5X-7080	196.4	25.23	547.9	123100.	5814.	676.5
27	89742-5X	224.7	28.18	519.7	152600.	3625.	716.5
28	ICSA2	.3298	.2384	-2.120	186900.	488600.	1.018
29	ICSAB2	97.07	95.51	99.92	189100.	514300.	98.78
30	CCV4	5201.	2530.	12460.	98130.	126500.	5136.
31	CCB4	-.4137	.2155	.1353	9.735	10.87	-.1269

#	Sample Name	Ni2316	K_7664	Ag3280	Na3302	Tl1908	V_2924
1	HSA	4833.	100200.	2526.	246500.	9681.	4966.
2	ICV/CCV1	2471.	48760.	1255.	120300.	4901.	2524.
3	ICB/CCB1	-.0181	200.8	.9281	-137.9	.7809	.0863
4	ICSA1	1.319	167.9	.1546	-306.7	-2.752	2.344
5	ICSAB1	95.62	9889.	105.7	10310.	89.41	101.3
6	INT-20	20380.	171.7	-4.589	-2902.	-52.99	19980.
7	MCL	55.66	9286.	20.28	9893.	17.70	54.64
8	BSW102798	525.2	18650.	51.02	20400.	2095.	527.4
9	PBW102798	.3854	173.4	-.8832	-336.5	-2.974	.3503
10	LCSW	1009.	8627.	933.0	9822.	995.4	994.1
11	90328D	1.563	714.1	.3058	4673.	2.025	1.055
12	90328	1.076	655.3	.5182	4286.	1.344	.3069
13	90328L	.0730	265.7	.0880	589.9	.6199	.1035
14	CCV2	2474.	48740.	1258.	120500.	4900.	2523.
15	CCB2	.2833	191.4	.3036	-427.8	-.8215	.6804
16	90328MS	513.2	18760.	51.10	24920.	2049.	510.4
17	90328MSD	495.6	17990.	47.40	23520.	1974.	491.4
18	90328A	492.3	18140.	47.29	23390.	1961.	492.3
19	90329	1.663	619.8	.4812	3953.	1.875	.8445
20	90330	1.648	571.0	-.3140	3027.	-1.216	.0015
21	90838-2X-7096	60.19	53070.	.3170	127600.	-.0617	9.752
22	90101-7091	16.00	9965.	.4573	98950.	1.273	38.92
23	90101L	3.487	2006.	.3177	20100.	-.6211	8.272
24	CCV3	2423.	47710.	1234.	118900.	4813.	2466.
25	CCB3	-.1281	184.4	.1185	-226.5	-.0067	.0053
26	89743-5X-7080	271.7	773.9	4.678	558.0	-1.363	105.6
27	89742-5X	311.6	790.0	2.949	246.0	1.058	101.9
28	ICSA2	1.846	107.7	.6638	-468.3	-2.339	1.817
29	ICSAB2	94.42	9811.	104.3	10170.	90.67	100.9
30	CCV4	2505.	48800.	1258.	120100.	4952.	2554.
31	CCB4	-.1228	195.9	.6488	-457.6	-.7302	.3857

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#	Sample Name	Zn2138	Mo2020	P_1782	Sr4215	Sn1899	Ti3349
1	HSA	4878.	4927.	4857.	9610.	1974.	19760.
2	ICV/CCV1	2511.	2521.	2556.	5040.	1009.	10050.
3	ICB/CCB1	.0088	.2491	1.551	.1938	.0082	.5189
4	ICSA1	-1.415	-1.372	5.771	1.327	.8713	-1.191
5	ICSAB1	100.6	99.93	L6.931	110.9	99.31	102.2
6	INT-20	1.783	19530.	-5.634	18610.	19640.	20330.
7	MCL	51.78	48.09	205.3	108.1	123.8	43.77
8	BSW102798	530.3	534.9	L3.372	543.2	L357.9	503.8
9	PBW102798	4.069	.0510	1.548	-.1048	2.936	L-6.647
10	LCSW	1002.	1020.	L-.1942	1037.	992.7	997.5
11	90328D	12.12	.3071	23.29	34.48	3.261	3.001
12	90328	9.534	-.2120	24.60	32.57	.8054	1.095
13	90328L	4.229	-.2597	5.164	6.316	.3603	.0453
14	CCV2	2513.	2524.	2509.	5069.	1009.	10100.
15	CCB2	-.1591	-.0935	2.060	-.1601	1.351	1.483
16	90328MS	521.0	518.0	28.15	575.7	338.9	500.8
17	90328MSD	502.8	498.0	22.10	547.7	338.7	478.6
18	90328A	502.3	493.1	22.83	543.4	85.87	437.6
19	90329	11.84	-.0200	30.22	26.63	1.797	4.362
20	90330	15.13	.0190	14.29	10.03	1.255	1.143
21	90838-2X-7096	2863.	77.46	908.4	375.9	3.817	2.620
22	90101-7091	442.4	1.562	343.3	304.8	4.398	521.7
23	90101L	91.73	.4142	75.75	61.75	-.3237	107.0
24	CCV3	2457.	2472.	2489.	4982.	987.3	9927.
25	CCB3	.0363	.2169	2.230	-.1636	-.2525	.4702
26	89743-5X-7080	3091.	34.91	2472.	103.8	62.85	660.8
27	89742-5X	2815.	36.73	2466.	78.47	80.78	662.8
28	ICSA2	-.9534	-.4533	3.987	1.784	-.9098	-1.444
29	ICSAB2	100.4	99.24	L4.606	108.9	99.78	97.56
30	CCV4	2551.	2552.	2611.	5018.	1035.	10030.
31	CCB4	-.1069	.0954	.5584	-.1689	-.3219	.1463

#	Sample Name	Pb2203	Se1960	Sb2068	B_2496
1	HSA	19440.	9842.	2009.	1978.
2	ICV/CCV1	9981.	4855.	1018.	990.0
3	ICB/CCB1	-1.712	-1.341	-1.022	1.623
4	ICSA1	.2383	-5.461	-.8579	1.488
5	ICSAB1	94.11	91.66	100.8	106.3
6	INT-20	5.381	-4.963	-14.73	3.992
7	MCL	8.635	9.683	19.83	101.8
8	BSW102798	521.4	2076.	501.7	548.9
9	PBW102798	L-4.042	-.7231	1.487	2.168
10	LCSW	992.2	981.1	962.9	1012.
11	90328D	-1.780	-1.916	.3421	14.75
12	90328	-1.729	-1.625	-.1418	15.86
13	90328L	-2.425	-3.021	-.3386	3.299
14	CCV2	9961.	4842.	1018.	989.5
15	CCB2	-1.057	-2.741	.8273	2.272
16	90328MS	503.7	1991.	482.8	532.9
17	90328MSD	487.7	1931.	468.0	510.1
18	90328A	486.4	1896.	448.8	513.0

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#	Sample Name	Pb2203	Se1960	Sb2068	B_2496		
19	90329	-2.848	-3.421	1.393	14.63		
20	90330	-1.463	-1.928	.4036	12.64		
21	90838-2X-7096	147.2	.4357	2.823	H11050.		
22	90101-7091	16.68	-1.110	6.217	526.0		
23	90101L	.8931	-.4719	.8493	109.6		
24	CCV3	9736.	4736.	992.8	974.9		
25	CCB3	-1.737	-1.199	.5899	3.534		
26	89743-5X-7080	492.1	1.026	25.62	39.53		
27	89742-5X	503.1	2.796	22.80	39.33		
28	ICSA2	-.9287	-7.970	1.684	1.273		
29	ICSAB2	92.47	94.58	99.15	104.3		
30	CCV4	10170.	4931.	1029.	993.8		
31	CCB4	-2.410	.1999	-2.394	1.937		

306243

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	953	--	--	--	--	--	--
SDev	.6363702	--	--	--	--	--	--
%RSD	.0667807	--	--	--	--	--	--
#1	953	--	--	--	--	--	--
#2	952	--	--	--	--	--	--

Method: SW846 Standard: STD1-Blank

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Avge	.4062	-.0256	.0095	-.0341	.0172	.3043	.0259
SDev	.0031	.0159	.0011	.0003	.0047	.0019	.0055
%RSD	.7522	62.11	11.33	.9239	27.31	.6156	21.14
#1	.4040	-.0144	.0087	-.0338	.0138	.3056	.0297
#2	.4084	-.0368	.0102	-.0343	.0205	.3029	.0220

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Avge	-.0059	.0727	-.0041	.0348	.0056	.0064	4.580
SDev	.0047	.0028	.0043	.0029	.0007	.0206	.011
%RSD	79.84	3.844	106.0	8.458	12.99	323.0	.2343
#1	-.0026	.0708	-.0010	.0369	.0062	-.0082	4.588
#2	-.0092	.0747	-.0072	.0327	.0051	.0210	4.573

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Avge	-.1511	.0082	-.0272	.0018	.0850	-.0077	.1757
SDev	.0002	.0058	.0109	.0032	.0021	.0007	.0546
%RSD	.1394	70.61	40.15	173.8	2.416	9.567	31.06
#1	-.1513	.0041	-.0349	.0041	.0836	-.0082	.2143
#2	-.1510	.0123	-.0194	-.0004	.0865	-.0072	.1371

Elem	Sr4215	Sn1899	Ti3349	2203/1	2203/2	2068/1	2068/2
Avge	.0351	.0264	-.3063	.2013	.0389	-.0251	-.0015
SDev	.0011	.0111	.0257	.0329	.0391	.0008	.0036
%RSD	3.236	41.97	8.375	16.33	100.4	3.026	236.0
#1	.0359	.0342	-.2882	.2246	.0113	-.0256	.0010
#2	.0343	.0185	-.3244	.1781	.0665	-.0246	-.0041

Elem	1960/1	1960/2	B_2496
Avge	-.2269	.1357	.0082
SDev	.0271	.0063	.0029
%RSD	11.95	4.664	35.22
#1	-.2461	.1313	.0062
#2	-.2078	.1402	.0102

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	976	--	--	--	--	--	--
SDev	1.361215	--	--	--	--	--	--
%RSD	.1394491	--	--	--	--	--	--
#1	975	--	--	--	--	--	--
#2	977	--	--	--	--	--	--

Method: SW846 Standard: ~~STD4~~ STD2 10/23/91

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Avge	91.56	12.16	44.94	9.603	66.04	89.71	23.85
SDev	.34	.14	.21	.100	.76	1.03	.27
%RSD	.3751	1.146	.4672	1.039	1.151	1.149	1.124
#1	91.31	12.06	44.79	9.532	65.51	88.98	23.66
#2	91.80	12.26	45.09	9.673	66.58	90.44	24.04

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	Ag3280
Avge	15.27	33.26	16.46	44.62	20.27	48.77	4.033
SDev	.17	.16	.12	.46	.21	.48	.017
%RSD	1.129	.4749	.7162	1.039	1.038	.9771	.4090
#1	15.15	33.15	16.38	44.29	20.13	48.43	4.022
#2	15.39	33.37	16.55	44.95	20.42	49.10	4.045

Elem	Tl1908	V_2924	Zn2138	Mo2020	P_1782	Sr4215	Sn1899
Avge	11.10	3.953	13.28	16.82	5.255	113.8	5.446
SDev	.05	.039	.11	.21	.015	.7	.069
%RSD	.4812	.9860	.7997	1.249	.2783	.6581	1.269
#1	11.06	3.926	13.21	16.67	5.245	113.3	5.397
#2	11.14	3.981	13.36	16.97	5.266	114.4	5.495

Elem	Ti3349	2203/1	2203/2	2068/1	2068/2	1960/1	1960/2
Avge	148.7	230.1	57.88	2.550	.6741	25.40	19.15
SDev	1.1	.5	.52	.028	.0040	.23	.19
%RSD	.7725	.2238	.8957	1.094	.5890	.9191	.9804
#1	147.9	229.7	57.51	2.531	.6712	25.24	19.02
#2	149.5	230.4	58.24	2.570	.6769	25.57	19.28

Elem	B_2496
Avge	2.570
SDev	.027
%RSD	1.059
#1	2.551
#2	2.590

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--

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Avge	970	--	--	--	--	--	--
SDev	2.563262	--	--	--	--	--	--
%RSD	.2643867	--	--	--	--	--	--
#1	971	--	--	--	--	--	--
#2	968	--	--	--	--	--	--

Method: SW846 Standard: STD3

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Avge	446.7	58.07	218.0	45.83	308.5	425.8	113.6
SDev	.2	.35	.2	.09	1.1	.3	.2
%RSD	.0531	.5953	.0971	.1963	.3469	.0620	.1889
#1	446.9	58.31	217.9	45.89	309.3	425.9	113.7
#2	446.6	57.82	218.2	45.76	307.7	425.6	113.4

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	Ag3280
Avge	72.14	163.0	79.79	220.8	96.38	228.5	20.56
SDev	.18	.7	.34	.2	.22	.6	.05
%RSD	.2501	.4478	.4236	.0726	.2277	.2779	.2524
#1	72.27	163.5	79.55	220.9	96.54	228.9	20.60
#2	72.02	162.5	80.03	220.7	96.23	228.0	20.53

Elem	Tl1908	V_2924	Zn2138	Mo2020	P_1782	Sr4215	Sn1899
Avge	52.52	19.03	62.73	80.62	25.55	544.1	25.68
SDev	.06	.05	.19	.36	.04	.1	.10
%RSD	.1193	.2722	.3050	.4433	.1432	.0198	.4084
#1	52.47	19.06	62.87	80.87	25.52	544.1	25.75
#2	52.56	18.99	62.60	80.36	25.58	544.0	25.60

Elem	Ti3349	2203/1	2203/2	2068/1	2068/2	1960/1	1960/2
Avge	728.8	1082.	270.5	12.63	3.246	121.2	90.62
SDev	.1	2.	1.0	.04	.045	.8	.29
%RSD	.0128	.1564	.3758	.3397	1.396	.6847	.3206
#1	728.7	1084.	271.2	12.66	3.278	121.7	90.83
#2	728.8	1081.	269.7	12.60	3.214	120.6	90.42

Elem	B_2496
Avge	12.44
SDev	.03
%RSD	.2447
#1	12.46
#2	12.42

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	947	--	--	--	--	--	--
SDev	2.545610	--	--	--	--	--	--

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%RSD	.2687440	--	--	--	--	--	--
#1	945	--	--	--	--	--	--
#2	949	--	--	--	--	--	--

Method: SW846 Standard: ~~STD2~~ STD4 10ks/ki

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Avge	887.5	116.0	434.4	91.70	607.8	842.7	227.0
SDev	1.6	.1	1.4	.15	.1	1.1	.3
%RSD	.1828	.0492	.3289	.1631	.0166	.1266	.1157
#1	888.6	116.0	435.4	91.81	607.8	843.4	227.2
#2	886.3	115.9	433.4	91.59	607.7	841.9	226.9

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Avge	142.8	332.9	161.1	451.3	191.3	450.1	208.8
SDev	.1	.5	.6	.1	.2	.6	.2
%RSD	.0873	.1646	.3499	.0203	.1244	.1357	.0814
#1	142.9	333.3	161.5	451.3	191.4	450.5	208.9
#2	142.8	332.6	160.7	451.2	191.1	449.7	208.6

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Avge	42.47	25.47	103.8	38.24	123.9	161.3	48.69
SDev	.04	.06	.0	.05	.0	.3	.35
%RSD	.0899	.2426	.0155	.1274	.0396	.1885	.7284
#1	42.50	25.43	103.8	38.27	123.9	161.5	48.94
#2	42.45	25.52	103.8	38.20	123.8	161.1	48.44

Elem	Sr4215	Sn1899	Ti3349	2203/1	2203/2	2068/1	2068/2
Avge	1069.	51.05	1483.	2145.	534.0	25.61	6.563
SDev	3.	.02	5.	4.	4.1	.30	.019
%RSD	.2357	.0331	.3111	.1977	.7636	1.181	.2909
#1	1071.	51.04	1487.	2142.	531.1	25.39	6.576
#2	1068.	51.07	1480.	2148.	536.9	25.82	6.549

Elem	1960/1	1960/2	B_2496
Avge	242.3	180.0	25.00
SDev	.5	1.3	.02
%RSD	.1893	.7286	.0679
#1	242.6	179.0	25.01
#2	242.0	180.9	24.98

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	912	--	--	--	--	--	--
SDev	.7954952	--	--	--	--	--	--
%RSD	.0872600	--	--	--	--	--	--

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#1	912	--	--	--	--	--	--
#2	911	--	--	--	--	--	--

Method: SW846 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Al3082	308.215	Multiple	Standards	557.561	-233.434	10/29/98 01:01:12
As1890	189.042	Multiple	Standards	84.7589	1.89488	10/29/98 01:01:12
Ba4394	439.409	Multiple	Standards	45.4721	-.796989	10/29/98 01:01:12
Be3130	313.042	Multiple	Standards	21.3381	.670989	10/29/98 01:01:12
Cd2265	226.502	Multiple	Standards	7.97900	-.356197	10/29/98 01:01:12
Ca3179	317.933	Multiple	Standards	289.915	-96.0845	10/29/98 01:01:12
Cr2677	267.716	Multiple	Standards	43.3411	-1.39553	10/29/98 01:01:12
Co2286	228.616	Multiple	Standards	34.3076	.022086	10/29/98 01:01:12
Cu3247	324.753	Multiple	Standards	75.7272	-5.58886	10/29/98 01:01:12
Fe2714	271.441	Multiple	Standards	1236.95	2.13093	10/29/98 01:01:12
Mg2790	279.078	Multiple	Standards	560.293	-19.0799	10/29/98 01:01:12
Mn2576	257.610	Multiple	Standards	51.1693	-.600328	10/29/98 01:01:12
Ni2316	231.604	Multiple	Standards	10.7443	-.278572	10/29/98 01:01:12
K_7664	766.491	STD2	STD1-Blank	.981636	.024809	10/29/98 01:01:12
Ag3280	328.068	Multiple	Standards	59.5992	9.01541	10/29/98 01:01:12
Na3302	330.232	STD2	STD1-Blank	.996240	.007859	10/29/98 01:01:12
Tl1908	190.864	Multiple	Standards	94.4896	2.19662	10/29/98 01:01:12
V_2924	292.402	Multiple	Standards	129.304	-.334558	10/29/98 01:01:12
Zn2138	213.856	Multiple	Standards	39.8173	-3.55621	10/29/98 01:01:12
Mo2020	202.030	Multiple	Standards	30.5608	.113875	10/29/98 01:01:12
P_1782	178.287	Multiple	Standards	100.169	-17.6796	10/29/98 01:01:12
Sr4215	421.552	Multiple	Standards	9.12350	-.633097	10/29/98 01:01:12
Sn1899	189.989	Multiple	Standards	37.6918	-1.05844	10/29/98 01:01:12
Ti3349	334.941	Multiple	Standards	13.5518	4.02002	10/29/98 01:01:12
Pb2203	220.353	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Se1960	196.026	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Sb2068	206.838	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
2203/1	220.351	Multiple	Standards	9.16265	-2.59560	10/29/98 01:01:12
2203/2	220.352	Multiple	Standards	36.1408	-2.25394	10/29/98 01:01:12
2068/1	206.831	Multiple	Standards	81.7070	2.03917	10/29/98 01:01:12
2068/2	206.832	Multiple	Standards	305.619	.430924	10/29/98 01:01:12
1960/1	196.021	Multiple	Standards	40.4458	8.86695	10/29/98 01:01:12
1960/2	196.022	Multiple	Standards	54.0039	-7.62974	10/29/98 01:01:12
B_2496	249.678	Multiple	Standards	79.7765	-.684435	10/29/98 01:01:12

Method: SW846

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al3082	308.215	STD1-Blank	.000000	-6.95793	6.95793
		STD4	50000.0	50815.3	-815.336
		STD3	250000.	248855.	1144.95
		STD2	500000.	494590.	5410.13

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As1890	189.042	STD1-Blank	.000000	-.274949	.274949
		STD4	1000.00	1032.34	-32.3363
		STD3	5000.00	4923.76	76.2383

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	STD2	10000.0	9831.60	168.396

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba4394	439.409	STD1-Blank	.000000	-.366124	.366124
		STD4	2000.00	2042.78	-42.7847
		STD3	10000.0	9913.06	86.9424
		STD2	20000.0	19750.7	249.313

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be3130	313.042	STD1-Blank	.000000	-.055841	.055841
		STD4	200.000	205.578	-5.57841
		STD3	1000.00	978.529	21.4711
		STD2	2000.00	1957.37	42.6316

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd2265	226.502	STD1-Blank	.000000	-.219308	.219308
		STD4	500.000	526.613	-26.6132
		STD3	2500.00	2461.15	38.8550
		STD2	5000.00	4848.90	151.101

CorCoef: 0.99995

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca3179	317.933	STD1-Blank	.000000	-7.87432	7.87432
		STD4	25000.0	25911.9	-911.889
		STD3	125000.	123337.	1663.41
		STD2	250000.	244208.	5792.06

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr2677	267.716	STD1-Blank	.000000	-.274252	.274252
		STD4	1000.00	1032.45	-32.4452
		STD3	5000.00	4921.23	78.7715
		STD2	10000.0	9839.09	160.910

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co2286	228.616	STD1-Blank	.000000	-.179893	.179893
		STD4	500.000	523.856	-23.8556
		STD3	2500.00	2475.11	24.8850
		STD2	5000.00	4900.71	99.2949

CorCoef: 0.99997

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu3247	324.753	STD1-Blank	.000000	-.080941	.080941
		STD4	2500.00	2513.27	-13.2712
		STD3	12500.0	12339.8	160.153
		STD2	25000.0	25207.0	-207.006

CorCoef: 0.99994

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe2714	271.441	STD1-Blank	.000000	-2.93408	2.93408
		STD4	20000.0	20367.4	-367.422
		STD3	100000.	98697.8	1302.19

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		STD2	200000.	199278.	722.313

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg2790	279.078	STD1-Blank	.000000	.436859	-.436859
		STD4	25000.0	24980.6	19.4180
		STD3	125000.	123689.	1310.58
		STD2	250000.	252815.	-2815.30

CorCoef: 0.99993

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn2576	257.610	STD1-Blank	.000000	-.311990	.311990
		STD4	1000.00	1036.80	-36.8002
		STD3	5000.00	4931.17	68.8325
		STD2	10000.0	9786.00	214.001

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni2316	231.604	STD1-Blank	.000000	-.209933	.209933
		STD4	500.000	523.667	-23.6670
		STD3	2500.00	2454.78	45.2236
		STD2	5000.00	4835.85	164.147

CorCoef: 0.99995

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
K_7664	766.491	STD1-Blank	4.52100	4.58030	-.059305
		STD2	204.947	208.756	-3.80882

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag3280	328.068	STD1-Blank	.000000	.009622	-.009622
		STD4	250.000	249.408	.591675
		STD3	1250.00	1234.62	15.3816
		STD2	2500.00	2540.34	-40.3401

CorCoef: 0.99989

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Na3302	330.232	STD1-Blank	.016020	.008192	.007828
		STD2	25.3844	25.4723	-.087921

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl190B	190.864	STD1-Blank	.000000	-.369287	.369287
		STD4	1000.00	1051.22	-51.2240
		STD3	5000.00	4964.61	35.3936
		STD2	10000.0	9812.50	187.500

CorCoef: 0.99997

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V_2924	292.402	STD1-Blank	.000000	-.098780	.098780
		STD4	500.000	510.820	-10.8204
		STD3	2500.00	2459.73	40.2661
		STD2	5000.00	4943.98	56.0215

CorCoef: 0.99999

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	Known	Measured	Residual

Element	Wavelength	Standard	Concentration	Concentration	Concentration
Zn2138	213.856	STD1-Blank	.000000	-.170644	.170644
		STD4	500.000	525.413	-25.4132
		STD3	2500.00	2494.25	5.75000
		STD2	5000.00	4928.14	71.8579

CorCoef: 0.99997

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo2020	202.030	STD1-Blank	.000000	-.120950	.120950
		STD4	500.000	514.242	-14.2424
		STD3	2500.00	2463.84	36.1616
		STD2	5000.00	4929.90	70.1016

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
P_1782	178.287	STD1-Blank	.000000	-.076903	.076903
		STD4	500.000	508.731	-8.73114
		STD3	2500.00	2541.62	-41.6174
		STD2	5000.00	4859.45	140.546

CorCoef: 0.99971

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr4215	421.552	STD1-Blank	.000000	-.312971	.312971
		STD4	1000.00	1037.82	-37.8201
		STD3	5000.00	4963.21	36.7925
		STD2	10000.0	9755.54	244.465

CorCoef: 0.99995

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn1899	189.989	STD1-Blank	.000000	-.064934	.064934
		STD4	200.000	204.200	-4.19954
		STD3	1000.00	966.688	33.3117
		STD2	2000.00	1923.23	76.7723

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti3349	334.941	STD1-Blank	.000000	-.130768	.130768
		STD4	2000.00	2019.33	-19.3345
		STD3	10000.0	9880.02	119.980
		STD2	20000.0	20107.2	-107.197

CorCoef: 0.99996

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb2203	220.353	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se1960	196.026	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb2068	206.838	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/1	220.351	STD1-Blank	.000000	-.750912	.750912
		STD4	2000.00	2105.31	-105.313
		STD3	10000.0	9915.54	84.4648
		STD2	20000.0	19655.8	344.170

CorCoef: 0.99997

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/2	220.352	STD1-Blank	.000000	-.848004	.848004
		STD4	2000.00	2089.49	-89.4915
		STD3	10000.0	9772.49	227.513
		STD2	20000.0	19295.9	704.143

CorCoef: 0.99996

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2068/1	206.831	STD1-Blank	.000000	-.011634	.011634
		STD4	200.000	210.415	-10.4155
		STD3	1000.00	1034.22	-34.2229
		STD2	2000.00	2094.25	-94.2488

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2068/2	206.832	STD1-Blank	.000000	-.037939	.037939
		STD4	200.000	206.435	-6.43481
		STD3	1000.00	992.426	7.57440
		STD2	2000.00	2006.18	-6.17773

CorCoef: 0.99997

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/1	196.021	STD1-Blank	.000000	-.311571	.311571
		STD4	1000.00	1036.22	-36.2196
		STD3	5000.00	4908.98	91.0239
		STD2	10000.0	9808.45	191.549

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/2	196.022	STD1-Blank	.000000	-.299537	.299537
		STD4	1000.00	1026.49	-26.4940
		STD3	5000.00	4886.45	113.547
		STD2	10000.0	9710.75	289.247

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B_2496	249.678	STD1-Blank	.000000	-.030782	.030782
		STD4	200.000	204.373	-4.37318
		STD3	1000.00	991.867	8.13287
		STD2	2000.00	1993.38	6.61597

CorCoef: 0.99999

Method: SW846 Sample Name: HSA Operator:
Run Time: 10/29/98 01:08:13
Comment: 5042T1 306252
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

Avge	487900.	9890.	19380.	1966.	4850.	243300.	9842.
SDev	84.	7.	20.	2.	8.	237.	15.
%RSD	.0173	.0747	.1027	.1060	.1562	.0976	.1552
#1	488000.	9885.	19390.	1965.	4845.	243100.	9832.
#2	487900.	9896.	19370.	1968.	4855.	243400.	9853.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	527200.	10540.	21080.	2108.	5272.	263600.	10540.
Low	472800.	9460.	18920.	1892.	4728.	236400.	9460.
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4855.	25150.	193000.	251500.	9786.	4833.	100200.
SDev	7.	20.	185.	475.	13.	3.	105.
%RSD	.1469	.0811	.0957	.1889	.1292	.0557	.1045
#1	4850.	25140.	193200.	251200.	9777.	4832.	100200.
#2	4860.	25160.	192900.	251800.	9795.	4835.	100300.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5272.	26360.	210800.	263600.	10540.	5272.	105400.
Low	4728.	23640.	189200.	236400.	9460.	4728.	94600.
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2526.	246500.	9681.	4966.	4878.	4927.	4857.
SDev	2.	147.	6.	6.	6.	5.	25.
%RSD	.0909	.0598	.0664	.1237	.1289	.1115	.5077
#1	2524.	246600.	9686.	4962.	4873.	4923.	4840.
#2	2528.	246400.	9677.	4971.	4882.	4931.	4875.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2636.	263600.	10540.	5272.	5272.	5272.	5272.
Low	2364.	236400.	9460.	4728.	4728.	4728.	4728.
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	9610.	1974.	19760.	19440.	9842.	2009.	19500.
SDev	2.	4.	15.	86.	26.	8.	94.
%RSD	.0243	.2272	.0754	.4436	.2667	.4035	.4827
#1	9612.	1971.	19770.	19380.	9823.	2003.	19440.
#2	9609.	1977.	19750.	19510.	9860.	2015.	19570.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10540.	2108.	21080.	21080.	10540.	2108.	
Low	9460.	1892.	18920.	18920.	9460.	1892.	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	19410.	2007.	2013.	9864.	9831.	1978.	
SDev	82.	9.	7.	32.	24.	8.	
%RSD	.4240	.4345	.3415	.3207	.2396	.4151	
#1	19360.	2001.	2008.	9841.	9814.	1972.	

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#2	19470.	2013.	2018.	9886.	9847.	1984.
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						2108.
Low						1892.

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	912	--	--	--	--	--	--
SDev	.0883884	--	--	--	--	--	--
%RSD	.0096913	--	--	--	--	--	--
#1	912	--	--	--	--	--	--
#2	912	--	--	--	--	--	--

Method: SW846 Sample Name: ICV/CCV1 Operator:
Run Time: 10/29/98 01:13:34
Comment: 5042T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	250600.	4903.	10110.	975.6	2469.	125800.	5122.
SDev	321.	11.	19.	2.5	10.	269.	19.
%RSD	.1280	.2177	.1923	.2597	.4122	.2140	.3795
#1	250300.	4911.	10100.	977.4	2476.	125900.	5136.
#2	250800.	4896.	10120.	973.8	2462.	125600.	5108.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	276000.	5520.	11040.	1104.	2760.	138000.	5520.
Low	223900.	4478.	8960.	896.0	2239.	112000.	4478.

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2498.	12430.	99060.	124700.	5072.	2471.	48760.
SDev	5.	21.	595.	94.	17.	4.	151.
%RSD	.1823	.1689	.6007	.0753	.3434	.1730	.3105
#1	2501.	12450.	98630.	124800.	5084.	2474.	48870.
#2	2495.	12420.	99480.	124700.	5059.	2468.	48650.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2760.	13800.	110400.	138000.	5520.	2760.	55200.
Low	2239.	11200.	89600.	112000.	4478.	2239.	44780.

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1255.	120300.	4901.	2524.	2511.	2521.	2556.
SDev	2.	388.	1.	13.	7.	12.	9.
%RSD	.1408	.3226	.0121	.5110	.2903	.4785	.3475
#1	1256.	120000.	4901.	2533.	2516.	2530.	2550.
#2	1254.	120500.	4901.	2515.	2506.	2513.	2563.

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1380.	138000.	5520.	2760.	2760.	2760.	2760.
Low	1120.	112000.	4478.	2239.	2239.	2239.	2239.

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	5040.	1009.	10050.	9981.	4855.	1018.	9998.
SDev	2.	3.	1.	27.	27.	5.	4.
%RSD	.0378	.3214	.0054	.2751	.5460	.4841	.0399
#1	5038.	1012.	10050.	10000.	4874.	1022.	9995.
#2	5041.	1007.	10050.	9962.	4837.	1015.	10000.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5520.	1104.	11040.	11040.	5520.	1104.	
Low	4478.	896.0	8960.	8960.	4478.	896.0	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	9973.	1019.	1018.	4849.	4859.	990.0
SDev	43.	8.	2.	24.	28.	.0
%RSD	.4327	.8020	.1532	.4876	.5751	.0014
#1	10000.	1024.	1017.	4866.	4878.	990.0
#2	9942.	1013.	1019.	4832.	4839.	990.0

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						1104.
Low						896.0

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	923	--	--	--	--	--	--
SDev	2.121320	--	--	--	--	--	--
%RSD	.2297542	--	--	--	--	--	--
#1	922	--	--	--	--	--	--
#2	925	--	--	--	--	--	--

Method: SW846 Sample Name: ICB/CCB1 Operator:
Run Time: 10/29/98 01:18:56
Comment: 5042T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	7.388	2.461	.6224	-.0060	.1175	-8.042	.2594
SDev	.533	1.545	.1784	.0093	.0077	1.331	.0584
%RSD	7.212	62.77	28.66	154.9	6.572	16.56	22.53
#1	7.011	1.369	.4962	-.0126	.1229	-8.983	.2181
#2	7.765	3.554	.7485	.0006	.1120	-7.100	.3007

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	4.000	5.000	1.000	1.500	400.0	5.000
Low	-199.0	-4.000	-5.000	-1.000	-1.500	-400.0	-5.000

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.0760	.8981	-2.388	1.448	.1917	-.0181	200.8
SDev	.0868	.0185	8.139	.349	.0724	.2666	2.0
%RSD	114.3	2.063	340.9	24.12	37.76	1473.	1.006
#1	-.1374	.9112	-8.143	1.201	.1405	.1704	202.2
#2	-.0146	.8850	3.367	1.695	.2429	-.2066	199.4

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	5.000	50.00	200.0	5.000	5.000	1000.
Low	-5.000	-5.000	-50.00	-200.0	-5.000	-5.000	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.9281	-137.9	.7809	.0863	.0088	.2491	1.551
SDev	.9770	126.6	.0696	.2748	.0336	.8368	.496
%RSD	105.3	91.84	8.918	318.6	380.4	335.9	31.98
#1	1.619	-227.4	.7316	.2806	-.0149	.8408	1.902
#2	.2372	-48.34	.8301	-.1081	.0326	-.3425	1.200

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	1000.	9.900	5.000	15.00	10.00	20.00
Low	-5.000	-1000.	-9.900	-5.000	-9.900	-10.00	-20.00

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	.1938	.0082	.5189	-1.712	-1.341	-1.022	.3860
SDev	.0408	.2557	.0204	1.100	.096	.013	2.879
%RSD	21.04	3102.	3.940	64.24	7.171	1.308	745.9
#1	.1649	-.1726	.5045	-2.489	-1.409	-1.013	-1.650
#2	.2226	.1891	.5334	-.9342	-1.273	-1.032	2.422

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5.000	5.000	5.000	3.000	5.000	10.00	
Low	-3.000	-3.000	-5.000	-3.000	-5.000	-10.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	-2.775	-1.211	-.6694	1.516	-2.780	1.623
SDev	.211	.543	1.1275	2.678	1.193	1.171
%RSD	7.609	44.85	168.4	176.7	42.91	72.18
#1	-2.924	-1.594	.1278	-.3779	-1.937	2.451
#2	-2.625	-.8267	-1.467	3.410	-3.624	.7945

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Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						15.00
Low						-9.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	969	--	--	--	--	--	--
SDev	2.810775	--	--	--	--	--	--
%RSD	.2900959	--	--	--	--	--	--
#1	967	--	--	--	--	--	--
#2	971	--	--	--	--	--	--

Method: SW846 Sample Name: ICSA1 Operator:
Run Time: 10/29/98 01:24:17
Comment: 5042T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	496400.	4.181	4.409	-.1499	-.1466	459800.	.3747
SDev	1062.	2.732	.144	.0087	.0045	2171.	.2898
%RSD	.2139	65.34	3.261	5.808	3.036	.4722	77.35
#1	495600.	6.112	4.511	-.1437	-.1435	458200.	.5796
#2	497100.	2.249	4.307	-.1560	-.1498	461300.	.1697
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600000.	10.00	20.00	5.000	3.500	600000.	5.000
Low	400000.	-10.00	-10.00	-5.000	-3.500	400000.	-5.000

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	X_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.5657	-1.744	189700.	508200.	1.236	1.319	167.9
SDev	.0647	.049	512.	2511.	.033	.140	.2
%RSD	11.44	2.791	.2701	.4942	2.689	10.59	.1196
#1	.5199	-1.778	189400.	506400.	1.213	1.221	168.0
#2	.6115	-1.709	190100.	509900.	1.260	1.418	167.7
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	20.00	240000.	600000.	10.00	10.00	500.0
Low	-5.000	-10.00	160000.	400000.	-5.000	-5.000	-500.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.1546	-306.7	-2.752	2.344	-1.415	-1.372	5.771
SDev	.1157	76.4	1.392	.411	.152	.084	.267
%RSD	74.84	24.91	50.60	17.53	10.73	6.109	4.626
#1	.2365	-360.7	-3.737	2.634	-1.523	-1.313	5.582
#2	.0728	-252.6	-1.768	2.053	-1.308	-1.432	5.959
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.00	1000.	10.00	10.00	10.00	10.00	15.00
Low	-10.00	-2000.	-10.00	-5.000	-10.00	-5.000	-15.00

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1

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Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	1.327	.8713	-1.191	.2383	-5.461	-.8579	22.69
SDev	.112	1.395	1.321	1.726	2.310	.6346	1.50
%RSD	8.447	160.1	110.8	724.3	42.31	73.97	6.607
#1	1.406	-.1154	-2.125	-.9821	-3.827	-.4092	21.63
#2	1.248	1.858	-.2577	1.459	-7.094	-1.307	23.75
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10.00	10.00	10.00	5.000	10.00	10.00	
Low	-5.000	-5.000	-5.000	-5.000	-10.00	-10.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	-10.99	.3262	-3.256	-.0705	-8.165	1.488	
SDev	1.84	3.980	9.877	7.4049	.233	.188	
%RSD	16.74	1220.	303.3	10500.	2.857	12.63	
#1	-12.29	-2.488	3.728	5.166	-8.330	1.355	
#2	-9.686	3.140	-10.24	-5.307	-8.000	1.620	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						15.00	
Low						-15.00	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	900	--	--	--	--	--	--
SDev	.1414300	--	--	--	--	--	--
%RSD	.0157206	--	--	--	--	--	--
#1	900	--	--	--	--	--	--
#2	900	--	--	--	--	--	--

Method: SW846 Sample Name: ICSA81 Operator:
Run Time: 10/29/98 01:29:40
Comment: 5042T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	512700.	100.7	112.1	98.35	95.84	462900.	98.60
SDev	1229.	5.8	.2	.37	.29	2015.	.63
%RSD	.2398	5.749	.1985	.3780	.3008	.4354	.6425
#1	511900.	104.8	111.9	98.61	96.05	464300.	99.05
#2	513600.	96.63	112.2	98.08	95.64	461500.	98.15
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600000.	120.0	120.0	120.0	120.0	600000.	120.0
Low	400000.	80.00	80.00	80.00	80.00	400000.	80.00
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

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Avge	96.85	101.5	198200.	524600.	99.51	95.62	9889.
SDev	.12	.2	1421.	680.	.50	.78	4.
%RSD	.1201	.2044	.7170	.1295	.4993	.8209	.0400
#1	96.77	101.7	197200.	525100.	99.86	95.06	9892.
#2	96.93	101.4	199200.	524100.	99.15	96.17	9886.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	120.0	120.0	240000.	600000.	120.0	120.0	12000.
Low	80.00	80.00	160000.	400000.	80.00	80.00	8000.
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	105.7	10310.	89.41	101.3	100.6	99.93	L6.931
SDev	.0	31.	3.10	.8	.0	.29	2.516
%RSD	.0043	.2962	3.470	.8164	.0292	.2859	36.30
#1	105.7	10290.	91.61	101.9	100.6	100.1	L5.152
#2	105.7	10330.	87.22	100.8	100.5	99.73	L8.710
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	120.0	12000.	120.0	120.0	120.0	120.0	120.0
Low	80.00	8000.	80.00	80.00	80.00	80.00	80.00
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	110.9	99.31	102.2	94.11	91.66	100.8	108.4
SDev	.4	.18	1.6	.25	5.25	.2	.8
%RSD	.3935	.1862	1.557	.2664	5.724	.2269	.7652
#1	110.6	99.44	101.0	93.93	95.38	100.6	109.0
#2	111.2	99.18	103.3	94.28	87.95	100.9	107.8
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	120.0	120.0	120.0	120.0	120.0	120.0	
Low	80.00	80.00	80.00	80.00	80.00	80.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	86.96	105.1	92.05	94.45	90.26	106.3	
SDev	.79	1.2	3.13	1.18	8.46	.5	
%RSD	.9084	1.158	3.395	1.253	9.370	.4704	
#1	86.40	106.0	89.84	93.62	96.24	106.0	
#2	87.52	104.3	94.26	95.29	84.28	106.7	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						120.0	
Low						80.00	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	892	--	--	--	--	--	--
SDev	.4772884	--	--	--	--	--	--

306259

%RSD	.0535054	--	--	--	--	--	--
#1	892	--	--	--	--	--	--
#2	892	--	--	--	--	--	--

Method: SW846 Sample Name: INT-20 Operator:
Run Time: 10/29/98 01:35:02
Comment: 5042T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	79.15	2.383	-2.691	16.39	-.0434	61.99	20050.
SDev	5.72	2.213	.014	.18	.0150	6.20	18.
%RSD	7.231	92.87	.5116	1.095	34.43	9.999	.0882
#1	83.20	3.948	-2.701	16.26	-.0540	66.37	20040.
#2	75.10	.8181	-2.681	16.52	-.0329	57.60	20060.

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	20500.	-7.941	-168.2	-7.013	19160.	20380.	171.7
SDev	17.	.425	23.1	7.093	18.	3.	2.9
%RSD	.0816	5.351	13.71	101.1	.0949	.0137	1.678
#1	20490.	-7.641	-151.9	-1.998	19150.	20380.	173.8
#2	20520.	-8.242	-184.5	-12.03	19170.	20390.	169.7

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-4.589	-2902.	-52.99	19980.	1.783	19530.	-5.634
SDev	.202	297.	.12	21.	.097	33.	1.790
%RSD	4.391	10.22	.2185	.1046	5.464	.1686	31.77
#1	-4.447	-2692.	-53.08	19970.	1.852	19500.	-4.368
#2	-4.732	-3112.	-52.91	20000.	1.714	19550.	-6.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	18610.	19640.	20330.	5.381	-4.963	-14.73	1.082
SDev	9.	46.	2.	.819	1.199	1.24	2.340
%RSD	.0472	.2330	.0111	15.22	24.15	8.450	216.4
#1	18610.	19600.	20330.	5.960	-4.115	-15.61	2.736
#2	18620.	19670.	20330.	4.802	-5.810	-13.85	-.5731

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	7.511	-5.253	-33.72	-.6127	-7.147	3.992
SDev	.057	.259	3.22	7.0622	1.729	.894
%RSD	.7586	4.928	9.542	1153.	24.19	22.40
#1	7.551	-5.436	-36.00	4.381	-8.369	4.625
#2	7.470	-5.070	-31.45	-5.606	-5.925	3.360

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	952	--	--	--	--	--	--
SDev	1.679379	--	--	--	--	--	--
%RSD	.1763335	--	--	--	--	--	--
#1	951	--	--	--	--	--	--
#2	954	--	--	--	--	--	--

Method: SW846 Sample Name: MCL Operator:
Run Time: 10/29/98 01:40:24
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	188.7	26.36	52.34	4.106	5.181	5279.	23.58
SDev	1.2	1.66	.04	.025	.032	7.	.10
%RSD	.6171	6.299	.0754	.6166	.6183	.1248	.4411
#1	189.5	27.53	52.36	4.088	5.158	5274.	23.50
#2	187.9	25.18	52.31	4.124	5.204	5283.	23.65

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	56.69	50.65	183.6	4977.	22.18	55.66	9286.
SDev	.04	.44	9.3	21.	.15	.19	7.
%RSD	.0636	.8768	5.061	.4228	.6761	.3390	.0767
#1	56.66	50.97	190.1	4962.	22.28	55.53	9281.
#2	56.71	50.34	177.0	4992.	22.07	55.79	9291.

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	20.28	9893.	17.70	54.64	51.78	48.09	205.3
SDev	.29	30.	.29	.22	.21	1.73	4.1
%RSD	1.432	.3018	1.661	.4027	.4029	3.605	2.015
#1	20.48	9914.	17.91	54.48	51.63	49.31	202.3
#2	20.07	9872.	17.49	54.79	51.92	46.86	208.2

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	108.1	123.8	43.77	8.635	9.683	19.83	10.46
SDev	.3	1.7	.25	.346	.708	1.52	1.48
%RSD	.2360	1.342	.5800	4.007	7.312	7.690	14.13
#1	108.3	122.6	43.59	8.390	9.182	18.75	11.51
#2	107.9	124.9	43.95	8.880	10.18	20.91	9.418

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	7.703	18.52	22.42	.0891	14.46	101.8
SDev	1.257	.57	3.44	3.519	2.82	.4

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%RSD	16.32	3.070	15.34	3950.	19.49	.4374
#1	6.814	18.12	19.99	2.577	12.47	101.5
#2	8.591	18.92	24.85	-2.399	16.45	102.1

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	935	--	--	--	--	--	--
SDev	.2121666	--	--	--	--	--	--
%RSD	.0226837	--	--	--	--	--	--
#1	935	--	--	--	--	--	--
#2	935	--	--	--	--	--	--

Method: SW846 Sample Name: BSW102798 Operator:
Run Time: 10/29/98 01:45:47
Comment: 5055_W(TAL)
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2078.	1930.	2072.	53.58	52.44	20970.	212.7
SDev	20.	11.	20.	.43	.66	192.	2.2
%RSD	.9437	.5712	.9734	.7957	1.258	.9139	1.047
#1	2092.	1938.	2087.	53.89	52.91	21110.	214.3
#2	2064.	1922.	2058.	53.28	51.98	20840.	211.1
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2400.	2400.	2400.	60.00	60.00	24000.	240.0
Low	1600.	1600.	1600.	40.00	40.00	16000.	160.0

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	528.0	255.6	1066.	20240.	524.0	525.2	18650.
SDev	5.9	2.4	27.	187.	4.1	5.1	115.
%RSD	1.115	.9538	2.560	.9225	.7732	.9654	.6166
#1	532.2	257.3	1085.	20370.	526.9	528.8	18740.
#2	523.8	253.9	1046.	20110.	521.2	521.7	18570.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.0	300.0	1200.	24000.	600.0	600.0	24000.
Low	400.0	200.0	800.0	16000.	400.0	400.0	16000.

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	51.02	20400.	2095.	527.4	530.3	534.9	L3.372
SDev	.76	278.	19.	4.9	3.7	2.8	1.352
%RSD	1.495	1.362	.8960	.9209	.7027	.5147	40.08
#1	51.56	20600.	2109.	530.9	533.0	536.8	L2.417
#2	50.49	20210.	2082.	524.0	527.7	532.9	L4.328

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	60.00	24000.	2400.	600.0	600.0	600.0	1200.
Low	40.00	16000.	1600.	400.0	400.0	400.0	800.0

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	543.2	L357.9	503.8	521.4	2076.	501.7	520.7
SDev	4.8	2.0	5.5	8.2	23.	2.9	6.1
%RSD	.8847	.5502	1.094	1.573	1.124	.5832	1.174
#1	546.6	L359.3	507.7	527.2	2093.	503.7	525.0
#2	539.8	L356.5	499.9	515.6	2060.	499.6	516.4

Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	600.0	600.0	600.0	600.0	2400.	600.0	
Low	400.0	400.0	400.0	400.0	1600.	400.0	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	521.8	500.5	503.9	2077.	2075.	548.9
SDev	9.2	3.7	1.3	28.	21.	3.5
%RSD	1.772	.7427	.2657	1.351	1.011	.6289
#1	528.3	503.1	504.8	2097.	2090.	551.3
#2	515.2	497.9	502.9	2058.	2061.	546.5

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						600.0
Low						400.0

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	943	--	--	--	--	--	--
SDev	8.591365	--	--	--	--	--	--
%RSD	.9113089	--	--	--	--	--	--
#1	937	--	--	--	--	--	--
#2	949	--	--	--	--	--	--

Method: SW846 Sample Name: PBW102798 Operator:
Run Time: 10/29/98 01:51:10
Comment: 5055_W(TAL)
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-28.13	1.267	-.4903	-.1212	-.4223	-1.616	.4987
SDev	.73	.888	.2295	.0634	.3151	2.540	.7974
%RSD	2.605	70.11	46.80	52.29	74.61	157.2	159.9
#1	-28.65	.6388	-.6526	-.1660	-.6451	-3.412	-.0651
#2	-27.62	1.895	-.3281	-.0764	-.1995	.1803	1.063

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	5.000	20.00	4.900	4.900	500.0	9.900
Low	-199.0	-5.000	-20.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.5058	-1.255	-54.13	-22.79	.0125	.3854	173.4
SDev	1.2237	1.932	70.43	21.59	.2528	.8034	15.7
%RSD	241.9	154.0	130.1	94.73	2015.	208.5	9.052
#1	-1.371	-2.621	L-103.9	-38.06	-.1662	-.1827	162.3
#2	.3595	.1114	-4.326	-7.525	.1913	.9535	184.5

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.900	9.900	99.00	500.0	9.900	9.900	1000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-500.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.8832	-336.5	-2.974	.3503	4.069	.0510	1.548
SDev	1.6134	45.1	6.763	.2547	.184	.7574	.053
%RSD	182.7	13.39	227.4	72.70	4.533	1485.	3.436
#1	-2.024	-304.7	-7.757	.1702	3.939	-.4845	1.511
#2	.2576	-368.4	1.808	.5304	4.200	.5866	1.586

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	4.900	1000.	9.900	9.900	15.00	10.00	20.00
Low	-4.900	-1000.	-9.900	-9.900	-9.900	-10.00	-20.00

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	-.1048	2.936	L-6.647	L-4.042	-.7231	1.487	-3.981
SDev	.0844	.209	8.923	.140	3.4910	.939	3.493
%RSD	80.55	7.128	134.2	3.475	482.8	63.13	87.75
#1	-.1645	2.788	L-12.96	L-3.943	1.745	.8235	-1.511
#2	-.0451	3.084	-.3378	L-4.142	-3.192	2.151	-6.451

Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Pass	NOCHECK
High	10.00	10.00	10.00	2.900	4.900	9.900	
Low	-3.000	-3.000	-5.000	-2.900	-4.900	-9.900	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	-4.088	1.775	.8861	-.1588	-1.017	2.168
SDev	1.535	.172	2.477	8.9421	.769	2.480
%RSD	37.54	9.666	279.5	5629.	75.61	114.4
#1	-5.173	1.654	-.8651	6.164	-.4734	.4143
#2	-3.003	1.896	2.637	-6.482	-1.561	3.922

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						15.00
Low						-9.900

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	957	--	--	--	--	--	--
SDev	17.65997	--	--	--	--	--	--
%RSD	1.844841	--	--	--	--	--	--
#1	945	--	--	--	--	--	--
#2	970	--	--	--	--	--	--

Method: SW846 Sample Name: LCSW Operator:
Run Time: 10/29/98 01:56:33
Comment: 5042T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	997.7	979.6	1019.	988.2	1002.	1008.	993.7
SDev	12.6	9.0	11.	8.2	7.	9.	7.6
%RSD	1.262	.9167	1.062	.8290	.7151	.9236	.7626
#1	1007.	985.9	1027.	994.0	1007.	1015.	999.0
#2	988.8	973.2	1012.	982.4	997.3	1001.	988.3
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1200.	1200.	1200.	1200.	1200.	1200.	1200.
Low	800.0	800.0	800.0	800.0	800.0	800.0	800.0

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1015.	975.4	987.4	945.8	993.8	1009.	8627.
SDev	9.	8.3	14.2	14.8	7.3	9.	95.
%RSD	.8740	.8489	1.440	1.561	.7375	.9270	1.099
#1	1021.	981.3	997.5	956.2	998.9	1015.	8694.
#2	1008.	969.6	977.4	935.4	988.6	1002.	8560.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1200.	1200.	1200.	1200.	1200.	1200.	12000.
Low	800.0	800.0	800.0	800.0	800.0	800.0	8000.

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	933.0	9822.	995.4	994.1	1002.	1020.	L-.1942
SDev	7.5	273.	10.8	9.2	8.	6.	1.7666
%RSD	.8041	2.783	1.086	.9204	.8364	.6363	909.9
#1	938.3	10020.	1003.	1001.	1008.	1024.	L-1.443
#2	927.7	9629.	987.7	987.6	995.9	1015.	L1.055
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	1200.	12000.	1200.	1200.	1200.	1200.	1200.
Low	800.0	8000.	800.0	800.0	800.0	800.0	800.0
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1

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Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	1037.	992.7	997.5	992.2	981.1	962.9	994.3
SDev	10.	6.6	9.9	4.2	5.5	4.8	3.7
%RSD	.9427	.6630	.9963	.4265	.5636	.4986	.3701
#1	1044.	997.3	1005.	995.2	985.0	966.3	996.9
#2	1030.	988.0	990.5	989.2	977.1	959.5	991.7
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	1200.	1200.	1200.	1200.	1200.	1200.	
Low	800.0	800.0	800.0	800.0	800.0	800.0	
Elem	.2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	991.1	963.9	960.8	982.0	980.6	1012.	
SDev	4.5	4.2	6.1	10.2	3.2	9.	
%RSD	.4551	.4307	.6350	1.035	.3281	.9239	
#1	994.3	966.9	965.1	989.2	982.9	1019.	
#2	987.9	961.0	956.5	974.8	978.3	1005.	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						1200.	
Low						800.0	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	953	--	--	--	--	--	--
SDev	9.245387	--	--	--	--	--	--
%RSD	.9698678	--	--	--	--	--	--
#1	947	--	--	--	--	--	--
#2	960	--	--	--	--	--	--

Method: SW846 Sample Name: 903280 Operator:
Run Time: 10/29/98 02:01:56
Comment: 5042T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	76.71	1.706	54.49	.0168	-.1731	6287.	1.278
SDev	2.56	2.797	.53	.0050	.1364	49.	.225
%RSD	3.337	164.0	.9795	30.14	78.76	.7849	17.64
#1	78.52	-.2726	54.87	.0132	-.2696	6322.	1.118
#2	74.90	3.684	54.12	.0203	-.0767	6252.	1.437
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

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Avge	.0436	.7113	103.7	1963.	15.83	1.563	714.1
SDev	.1656	.3539	.7	14.	.15	.480	11.0
%RSD	380.1	49.76	.6859	.7160	.9564	30.70	1.545
#1	-.0735	.4610	104.2	1973.	15.94	1.902	721.9
#2	.1607	.9615	103.1	1953.	15.73	1.224	706.3
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.3058	4673.	2.025	1.055	12.12	.3071	23.29
SDev	.5292	65.	.074	.267	.06	.3653	1.11
%RSD	173.0	1.398	3.651	25.34	.4837	119.0	4.761
#1	-.0683	4719.	2.077	.8662	12.08	.0487	22.50
#2	.6800	4627.	1.973	1.244	12.16	.5654	24.07
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	34.48	3.261	3.001	-1.780	-1.916	.3421	-2.018
SDev	.36	.563	1.105	.986	2.095	.7152	.787
%RSD	1.036	17.25	36.82	55.40	109.4	209.1	38.99
#1	34.73	2.863	2.220	-1.083	-3.398	.8478	-2.574
#2	34.22	3.659	3.782	-2.478	-.4344	-.1637	-1.462
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	-1.675	-.8388	2.682	-1.151	-2.311	14.75	
SDev	1.872	1.7530	1.363	.204	3.243	.29	
%RSD	111.8	209.0	50.84	17.73	140.4	1.937	
#1	-.3513	.4007	1.718	-1.007	-4.604	14.96	
#2	-2.999	-2.078	3.646	-1.295	-.0173	14.55	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	943	--	--	--	--	--	--
SDev	6.487696	--	--	--	--	--	--

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%RSD	.6879391	--	--	--	--	--	--
#1	938	--	--	--	--	--	--
#2	948	--	--	--	--	--	--

Method: SW846 Sample Name: 90328 Operator:
Run Time: 10/29/98 02:07:20
Comment: 5042T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	53.57	.3935	51.66	-.0401	-.3375	5914.	1.198
SDev	6.58	.1174	.14	.0197	.0508	5.	.179
%RSD	12.29	29.82	.2676	49.14	15.06	.0812	14.90
#1	58.23	.4765	51.56	-.0541	-.3735	5917.	1.072
#2	48.91	.3106	51.76	-.0262	-.3016	5910.	1.325
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.1417	.4068	61.26	1826.	14.57	1.076	655.3
SDev	.2263	.6399	13.97	2.	.00	.207	8.8
%RSD	159.7	157.3	22.81	.1022	.0074	19.29	1.348
#1	-.3018	-.0458	71.14	1825.	14.57	.9289	661.5
#2	.0183	.8593	51.38	1828.	14.56	1.222	649.0
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.5182	4286.	1.344	.3069	9.534	-.2120	24.60
SDev	.2843	36.	.770	.1974	.021	.2574	1.56
%RSD	54.86	.8320	57.29	64.33	.2246	121.4	6.338
#1	.3172	4261.	1.889	.1673	9.549	-.0300	23.49
#2	.7193	4311.	.7997	.4465	9.519	-.3939	25.70
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	32.57	.8054	1.095	-1.729	-1.625	-.1418	-2.690
SDev	.03	.7331	.913	.034	3.133	.3015	.645
%RSD	.0900	91.03	83.40	1.963	192.8	212.6	23.98
#1	32.55	1.324	.4491	-1.753	-3.841	-.3550	-3.147

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#2	32.60	.2870	1.740	-1.705	.5904	.0714	-2.234
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	-1.262	-.9093	1.370	1.457	-3.176	15.86	
SDev	.271	.9069	.911	2.451	3.474	.15	
%RSD	21.49	99.74	66.48	168.2	109.4	.9566	
#1	-1.070	-1.551	2.015	-.2761	-5.633	15.75	
#2	-1.453	-.2680	.7262	3.190	-.7197	15.97	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	959	--	--	--	--	--	--
SDev	4.826013	--	--	--	--	--	--
%RSD	.5029782	--	--	--	--	--	--
#1	956	--	--	--	--	--	--
#2	963	--	--	--	--	--	--

Method: SW846 Sample Name: 90328L Operator:
Run Time: 10/29/98 02:12:43
Comment: 5042T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-16.43	.3961	10.20	-.1112	-.3088	1235.	-.0999
SDev	.96	.7485	.00	.0080	.0555	2.	.1438
%RSD	5.862	189.0	.0298	7.192	17.97	.1515	143.9
#1	-17.11	-.1332	10.20	-.1169	-.2696	1234.	.0017
#2	-15.75	.9253	10.20	-.1056	-.3481	1237.	-.2016
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.1122	-.0751	5.029	367.6	2.666	.0730	265.7
SDev	.1155	.4440	3.651	2.2	.114	.4033	1.2
%RSD	103.0	591.5	72.59	.5895	4.266	552.6	.4652
#1	-.1939	-.3890	7.610	369.1	2.747	-.2122	266.6
#2	-.0305	.2389	2.448	366.1	2.586	.3582	264.8

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.0880	589.9	.6199	.1035	4.229	-.2597	5.164
SDev	.3970	54.9	2.090	.0354	.055	.2361	.989
%RSD	451.3	9.307	337.2	34.16	1.293	90.93	19.14
#1	-.1928	551.1	-.8581	.0785	4.190	-.4266	4.465
#2	.3687	628.8	2.098	.1285	4.268	-.0927	5.864

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	6.316	.3603	.0453	-2.425	-3.021	-.3386	-3.065
SDev	.015	.1808	.9361	.186	.142	.2854	.559
%RSD	.2324	50.18	2067.	7.680	4.688	84.29	18.26
#1	6.306	.2324	.7072	-2.293	-2.921	-.5404	-3.460
#2	6.327	.4881	-.6166	-2.556	-3.122	-.1368	-2.669

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	-2.124	-.3362	-.3684	-2.368	-3.360	3.299
SDev	.558	2.1562	5.1759	1.966	1.194	.118
%RSD	26.30	641.3	1405.	83.05	35.54	3.592
#1	-1.729	1.188	-4.028	-3.758	-2.516	3.383
#2	-2.519	-1.861	3.292	-.9772	-4.205	3.215

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	961	--	--	--	--	--	--
SDev	.2651650	--	--	--	--	--	--
%RSD	.0275815	--	--	--	--	--	--
#1	961	--	--	--	--	--	--
#2	962	--	--	--	--	--	--

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Method: SW846 Sample Name: CCV2 Operator:
Run Time: 10/29/98 02:18:04
Comment: 5055_W(TAL)
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	251100.	4915.	10190.	977.7	2471.	126100.	5131.
SDev	568.	2.	22.	1.1	5.	250.	11.
%RSD	.2260	.0472	.2118	.1151	.1864	.1979	.2207
#1	251500.	4913.	10210.	976.9	2468.	126000.	5123.
#2	250700.	4916.	10180.	978.5	2475.	126300.	5139.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	276000.	5520.	11040.	1104.	2760.	138000.	5520.
Low	223900.	4478.	8960.	896.0	2239.	112000.	4478.

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2500.	12470.	100300.	125300.	5073.	2474.	48740.
SDev	3.	24.	158.	119.	10.	5.	118.
%RSD	.1009	.1941	.1575	.0952	.1890	.1945	.2423
#1	2498.	12490.	100500.	125200.	5066.	2471.	48820.
#2	2501.	12460.	100200.	125400.	5080.	2478.	48650.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2760.	13800.	110400.	138000.	5520.	2760.	55200.
Low	2239.	11200.	89600.	112000.	4478.	2239.	44780.

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1258.	120500.	4900.	2523.	2513.	2524.	2509.
SDev	1.	531.	7.	5.	2.	5.	3.
%RSD	.0714	.4409	.1525	.1911	.0619	.1839	.1374
#1	1258.	120900.	4895.	2520.	2512.	2521.	2511.
#2	1257.	120200.	4906.	2527.	2514.	2527.	2506.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1380.	138000.	5520.	2760.	2760.	2760.	2760.
Low	1120.	112000.	4478.	2239.	2239.	2239.	2239.

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	5069.	1009.	10100.	9961.	4842.	1018.	9988.
SDev	2.	7.	2.	3.	3.	.	27.
%RSD	.0407	.6603	.0203	.0319	.0537	.0196	.2729
#1	5070.	1004.	10100.	9958.	4844.	1018.	10010.
#2	5067.	1014.	10100.	9963.	4840.	1018.	9969.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5520.	1104.	11040.	11040.	5520.	1104.	
Low	4478.	896.0	8960.	8960.	4478.	896.0	

Elem 2203/2 2068/1 2068/2 1960/1 1960/2 P_2454

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Units						ppb
Avge	9947.	1021.	1013.	4826.	4850.	989.5
SDev	18.	5.	10.	7.	.	.9
%RSD	.1847	.4503	.9681	.1474	.0072	.0901
#1	9934.	1017.	1020.	4831.	4850.	990.2
#2	9960.	1024.	1006.	4821.	4849.	988.9
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						1104.
Low						896.0

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	928	--	--	--	--	--	--
SDev	2.757691	--	--	--	--	--	--
%RSD	.2970529	--	--	--	--	--	--
#1	926	--	--	--	--	--	--
#2	930	--	--	--	--	--	--

Method: SW846 Sample Name: CCB2 Operator:
Run Time: 10/29/98 02:23:26
Comment: 5055_W(TAL)
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.1518	1.630	-.0255	-.0742	-.1604	-18.14	-.0605
SDev	1.8960	1.252	.0502	.0000	.1298	1.48	.0643
%RSD	1249.	76.80	197.2	.0439	80.92	8.173	106.1
#1	1.189	2.514	-.0610	-.0741	-.2521	-19.19	-.0151
#2	-1.493	.7446	.0100	-.0742	-.0686	-17.09	-.1060
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	4.000	5.000	1.000	1.500	400.0	5.000
Low	-199.0	-4.000	-5.000	-1.000	-1.500	-400.0	-5.000

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.2162	.4203	-.5129	-.9451	-.1729	.2833	191.4
SDev	.2030	.1108	3.6366	1.6509	.0001	.1447	.4
%RSD	93.89	26.35	709.0	174.7	.0813	51.07	.1831
#1	.3598	.3420	2.059	-2.112	-.1728	.1810	191.2
#2	.0727	.4986	-3.084	.2223	-.1730	.3856	191.7
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	5.000	50.00	200.0	5.000	5.000	1000.
Low	-5.000	-5.000	-50.00	-200.0	-5.000	-5.000	-400.0

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Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

Avge	.3036	-427.8	-.8215	.6804	-.1591	-.0935	2.060
SDev	.0862	458.9	.3489	.1278	.0137	.1579	.254
%RSD	28.41	107.3	42.47	18.78	8.614	168.8	12.31
#1	.3646	-103.3	-1.068	.7707	-.1688	.0181	1.881
#2	.2426	-752.4	-.5748	.5900	-.1494	-.2052	2.240
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	1000.	9.900	5.000	15.00	10.00	20.00
Low	-5.000	-1000.	-9.900	-5.000	-9.900	-10.00	-20.00
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	-.1601	1.351	1.483	-1.057	-2.741	.8273	-2.582
SDev	.0133	.890	.050	.053	2.882	2.557	1.386
%RSD	8.280	65.85	3.400	4.982	105.2	309.1	53.68
#1	-.1695	1.981	1.448	-1.019	-.7029	-.9809	-1.602
#2	-.1507	.7221	1.519	-1.094	-4.779	2.635	-3.562
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5.000	5.000	5.000	3.000	5.000	10.00	
Low	-3.000	-3.000	-5.000	-3.000	-5.000	-10.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	-.3094	.7741	.9087	-3.252	-2.498	2.272	
SDev	.6130	5.299	2.935	4.178	2.236	.413	
%RSD	198.1	684.5	323.0	128.5	89.48	18.16	
#1	-.7428	-2.973	2.984	-.2980	-.9175	2.564	
#2	.1241	4.521	-1.167	-6.207	-4.079	1.981	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						15.00	
Low						-9.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	958	--	--	--	--	--	--
SDev	.1944716	--	--	--	--	--	--
%RSD	.0203048	--	--	--	--	--	--
#1	958	--	--	--	--	--	--
#2	958	--	--	--	--	--	--

Method: SW846 Sample Name: 90328MS Operator:
Run Time: 10/29/98 02:28:48
Comment:
Mode: CONC Corr. Factor: 1

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Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

Avge	2111.	1858.	2137.	52.34	50.49	26770.	205.4
SDev	2.	10.	6.	.32	.35	129.	.9
%RSD	.0952	.5289	.2714	.6155	.6913	.4806	.4304
#1	2113.	1851.	2133.	52.11	50.24	26680.	204.7
#2	2110.	1865.	2141.	52.57	50.73	26860.	206.0
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	516.5	250.8	1085.	21770.	524.5	513.2	18760.
SDev	2.0	.8	10.	97.	2.3	1.1	36.
%RSD	.3925	.3022	.9021	.4465	.4319	.2220	.1908
#1	515.0	250.2	1092.	21700.	522.9	512.4	18740.
#2	517.9	251.3	1078.	21840.	526.1	514.0	18790.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	51.10	24920.	2049.	510.4	521.0	518.0	28.15
SDev	.17	75.	8.	2.7	2.0	1.0	.50
%RSD	.3388	.2992	.4095	.5346	.3780	.1866	1.793
#1	51.22	24870.	2043.	508.5	519.6	517.3	28.51
#2	50.97	24980.	2055.	512.3	522.4	518.6	27.80
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	575.7	338.9	500.8	503.7	1991.	482.8	506.0
SDev	2.2	1.1	.1	3.4	1.	.3	3.7
%RSD	.3736	.3260	.0117	.6772	.0632	.0565	.7311
#1	574.2	338.1	500.8	501.3	1990.	483.0	503.4
#2	577.2	339.7	500.9	506.1	1991.	482.6	508.6
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	502.5	483.8	480.8	1995.	1988.	532.9	
SDev	3.3	3.4	6.0	1.	1.	.6	
%RSD	.6499	.7078	1.256	.0570	.0663	.1197	
#1	500.2	486.2	476.5	1995.	1987.	532.4	

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#2	504.8	481.4	485.0	1996.	1989.	533.4
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	940	--	--	--	--	--	--
SDev	.3535534	--	--	--	--	--	--
%RSD	.0376271	--	--	--	--	--	--
#1	939	--	--	--	--	--	--
#2	940	--	--	--	--	--	--

Method: SW846 Sample Name: 90328MSD Operator:
Run Time: 10/29/98 02:34:10
Comment: 5042T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2004.	1813.	2021.	50.38	49.02	25790.	198.2
SDev	3.	6.	5.	.05	.08	4.	.1
%RSD	.1442	.3178	.2410	.1067	.1648	.0142	.0745
#1	2006.	1817.	2025.	50.34	48.96	25800.	198.1
#2	2001.	1809.	2018.	50.41	49.08	25790.	198.3
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	497.6	240.3	1038.	20990.	505.4	495.6	17990.
SDev	.3	.2	2.	8.	.0	.2	23.
%RSD	.0637	.0739	.1457	.0401	.0093	.0433	.1306
#1	497.8	240.4	1037.	20990.	505.4	495.5	18000.
#2	497.3	240.2	1039.	21000.	505.5	495.8	17970.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	47.40	23520.	1974.	491.4	502.8	498.0	22.10
SDev	.31	300.	1.	.3	.6	.1	1.56
%RSD	.6601	1.274	.0375	.0519	.1168	.0263	7.073
#1	47.18	23730.	1975.	491.2	502.4	498.1	23.21
#2	47.62	23310.	1974.	491.6	503.2	497.9	21.00

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	547.7	338.7	478.6	487.7	1931.	468.0	489.5
SDev	.6	3.5	.6	4.4	15.	3.3	5.1
%RSD	.1135	1.024	.1193	.9094	.7796	.6968	1.043
#1	548.2	336.3	478.2	490.8	1942.	470.3	493.1
#2	547.3	341.2	479.0	484.5	1920.	465.7	485.9

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	486.7	467.5	468.9	1936.	1929.	510.1
SDev	4.1	2.4	5.0	14.	15.	.6
%RSD	.8426	.5154	1.059	.7332	.8029	.1111
#1	489.6	469.2	472.4	1946.	1939.	510.5
#2	483.8	465.8	465.4	1926.	1918.	509.7

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	969	--	--	--	--	--	--
SDev	5.267954	--	--	--	--	--	--
%RSD	.5435223	--	--	--	--	--	--
#1	966	--	--	--	--	--	--
#2	973	--	--	--	--	--	--

Method: SW846 Sample Name: 90328A Operator:
Run Time: 10/29/98 02:39:32
Comment: 5042T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1982.	1616.	1997.	50.06	49.05	25480.	198.0
SDev	8.	1.	5.	.04	.14	13.	.0
%RSD	.3850	.0815	.2729	.0836	.2779	.0516	.0050
#1	1987.	1615.	2001.	50.03	48.95	25480.	197.9
#2	1976.	1617.	1993.	50.09	49.15	25490.	198.0

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	494.7	239.6	993.9	20770.	502.5	492.3	18140.
SDev	.0	.8	15.6	18.	.2	.1	14.
%RSD	.0073	.3133	1.565	.0881	.0488	.0144	.0771
#1	494.6	240.2	1005.	20760.	502.3	492.2	18150.
#2	494.7	239.1	982.9	20790.	502.6	492.3	18130.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	47.29	23390.	1961.	492.3	502.3	493.1	22.83
SDev	.15	47.	10.	.2	.1	.9	.67
%RSD	.3152	.2015	.5098	.0307	.0108	.1871	2.920
#1	47.19	23420.	1954.	492.2	502.3	492.5	23.30
#2	47.40	23360.	1968.	492.4	502.3	493.8	22.36

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	543.4	85.87	437.6	486.4	1896.	448.8	484.5
SDev	.6	.63	.6	1.3	.	3.2	1.3
%RSD	.1100	.7381	.1316	.2636	.0208	.7240	.2591
#1	543.8	85.42	438.0	485.5	1896.	446.5	485.4
#2	543.0	86.32	437.2	487.3	1896.	451.1	483.6

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	487.4	449.2	448.0	1890.	1899.	513.0
SDev	2.5	3.2	3.3	6.	2.	.5
%RSD	.5230	.7137	.7448	.3129	.1245	.1032
#1	485.6	446.9	445.7	1895.	1897.	512.6
#2	489.2	451.5	450.4	1886.	1900.	513.4

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Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	962	--	--	--	--	--	--
SDev	.1060401	--	--	--	--	--	--
%RSD	.0110203	--	--	--	--	--	--
#1	962	--	--	--	--	--	--
#2	962	--	--	--	--	--	--

Method: SW846 Sample Name: 90329 Operator:
Run Time: 10/29/98 02:44:55
Comment: 5042T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	175.1	.1058	51.59	-.0138	-.2026	5459.	1.098
SDev	2.9	.8036	.26	.0245	.0283	1.	.093
%RSD	1.662	759.9	.4962	177.4	13.99	.0094	8.440
#1	173.0	-.4625	51.41	-.0311	-.2226	5459.	1.032
#2	177.2	.6740	51.77	.0035	-.1826	5460.	1.163
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.1363	.4498	224.2	1795.	28.29	1.663	619.8
SDev	.1110	.0499	8.8	5.	.05	.134	.8
%RSD	81.46	11.09	3.936	.2599	.1812	8.082	.1365
#1	-.2148	.4145	217.9	1792.	28.26	1.758	620.4
#2	-.0578	.4850	230.4	1798.	28.33	1.568	619.2
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.4812	3953.	1.875	.8445	11.84	-.0201	30.22
SDev	.1804	127.	.278	.3311	.16	.4785	2.37
%RSD	37.49	3.211	14.81	39.20	1.332	2386.	7.844
#1	.3537	3863.	2.072	.6104	11.96	-.3584	28.54
#2	.6088	4043.	1.679	1.079	11.73	.3183	31.90
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1

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Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	26.63	1.797	4.362	-2.848	-3.421	1.393	-2.058
SDev	.04	.651	1.183	.105	3.341	2.530	.892
%RSD	.1535	36.24	27.13	3.684	97.66	181.6	43.34
#1	26.60	1.336	3.525	-2.773	L-5.783	3.182	-2.689
#2	26.66	2.257	5.199	L-2.922	-1.058	-.3961	-1.427
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	-3.254	2.501	-.8505	-2.571	-3.857	14.63	
SDev	.603	2.908	1.7723	3.337	3.343	.51	
%RSD	18.52	116.3	208.4	129.8	86.66	3.487	
#1	-2.828	4.557	.4027	-4.931	-6.221	14.27	
#2	-3.680	.4441	-2.104	-.2117	-1.494	15.00	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	971	--	--	--	--	--	--
SDev	.7778002	--	--	--	--	--	--
%RSD	.0800865	--	--	--	--	--	--
#1	971	--	--	--	--	--	--
#2	972	--	--	--	--	--	--

Method: SW846 Sample Name: 90330 Operator:
Run Time: 10/29/98 02:50:18
Comment: 5042T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	38.69	.8888	32.41	-.0472	-.2164	2896.	.6176
SDev	1.77	3.514	.25	.0060	.0560	2.	.0206
%RSD	4.567	395.4	.7594	12.63	25.89	.0842	3.342
#1	37.44	-1.596	32.59	-.0430	-.1768	2898.	.6322
#2	39.94	3.374	32.24	-.0514	-.2560	2895.	.6030
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

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Avge	-.2002	.9092	87.78	1187.	14.21	1.648	571.0
SDev	.3619	.0713	7.91	3.	.11	.073	1.1
%RSD	180.8	7.839	9.012	.2327	.7779	4.410	.1990
#1	.0557	.9596	82.18	1186.	14.29	1.597	571.8
#2	-.4561	.8588	93.37	1189.	14.13	1.700	570.2
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.3140	3027.	-1.216	.0015	15.13	.0190	14.29
SDev	.1310	181.	1.383	.0349	.07	.4889	1.45
%RSD	41.73	5.971	113.8	2358.	.4555	2568.	10.17
#1	-.4067	3155.	-2.194	.0261	15.08	-.3267	13.26
#2	-.2214	2899.	-.2379	-.0232	15.18	.3648	15.31
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	10.03	1.255	1.143	-1.463	-1.928	.4036	-2.591
SDev	.02	.156	.795	.432	5.082	1.318	3.196
%RSD	.1634	12.43	69.50	29.54	263.6	326.6	123.3
#1	10.05	1.145	.5815	-1.768	1.665	1.336	-4.851
#2	10.02	1.365	1.705	-1.157	L-5.522	-.5286	-.3314
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	-.9130	-.5587	2.306	-1.778	-2.015	12.64	
SDev	.9476	1.5347	.885	1.796	6.723	.14	
%RSD	103.8	274.7	38.37	101.0	333.6	1.122	
#1	-.2429	.5265	2.932	-.5081	2.738	12.54	
#2	-1.583	-1.644	1.681	-3.048	-6.769	12.74	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	973	--	--	--	--	--	--
SDev	2.368834	--	--	--	--	--	--

306280

Avge	-.2002	.9092	87.78	1187.	14.21	1.648	571.0
SDev	.3619	.0713	7.91	3.	.11	.073	1.1
%RSD	180.8	7.839	9.012	.2327	.7779	4.410	.1990
#1	.0557	.9596	82.18	1186.	14.29	1.597	571.8
#2	-.4561	.8588	93.37	1189.	14.13	1.700	570.2
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.3140	3027.	-1.216	.0015	15.13	.0190	14.29
SDev	.1310	181.	1.383	.0349	.07	.4889	1.45
%RSD	41.73	5.971	113.8	2358.	.4555	2568.	10.17
#1	-.4067	3155.	-2.194	.0261	15.08	-.3267	13.26
#2	-.2214	2899.	-.2379	-.0232	15.18	.3648	15.31
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	10.03	1.255	1.143	-1.463	-1.928	.4036	-2.591
SDev	.02	.156	.795	.432	5.082	1.318	3.196
%RSD	.1634	12.43	69.50	29.54	263.6	326.6	123.3
#1	10.05	1.145	.5815	-1.768	1.665	1.336	-4.851
#2	10.02	1.365	1.705	-1.157	L-5.522	-.5286	-.3314
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	-.9130	-.5587	2.306	-1.778	-2.015	12.64	
SDev	.9476	1.5347	.885	1.796	6.723	.14	
%RSD	103.8	274.7	38.37	101.0	333.6	1.122	
#1	-.2429	.5265	2.932	-.5081	2.738	12.54	
#2	-1.583	-1.644	1.681	-3.048	-6.769	12.74	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	973	--	--	--	--	--	--
SDev	2.368834	--	--	--	--	--	--

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%RSD	.2434942	--	--	--	--	--	--
#1	971	--	--	--	--	--	--
#2	975	--	--	--	--	--	--

Method: SW846 Sample Name: 90838-2X-7096 Operator:
Run Time: 10/29/98 02:55:40
Comment: 5042T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5230.	4.024	308.5	2.013	8.469	46470.	178.3
SDev	6.	.938	.7	.001	.145	49.	.4
%RSD	.1145	23.31	.2213	.0575	1.707	.1046	.1984
#1	5235.	3.361	308.9	2.014	8.571	46430.	178.0
#2	5226.	4.687	308.0	2.012	8.367	46500.	178.5
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	12.66	113.0	76190.	19910.	388.8	60.19	53070.
SDev	.04	.2	211.	31.	.1	.21	23.
%RSD	.2961	.1795	.2774	.1556	.0370	.3411	.0435
#1	12.69	113.2	76340.	19880.	388.7	60.04	53060.
#2	12.64	112.9	76040.	19930.	388.9	60.33	53090.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.3170	127600.	-.0617	9.752	2863.	77.46	908.4
SDev	.4999	51.	.1862	.117	4.	.86	3.2
%RSD	157.7	.0397	301.6	1.204	.1477	1.115	.3509
#1	.6704	127600.	-.1934	9.835	2860.	78.07	906.1
#2	-.0365	127600.	.0699	9.669	2866.	76.85	910.6
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	375.9	3.817	2.620	147.2	.4357	2.823	147.2
SDev	.5	.402	.576	.4	3.059	2.135	2.7
%RSD	.1254	10.54	21.98	.2848	702.1	75.64	1.867
#1	376.2	4.102	2.213	147.5	2.599	1.313	149.2

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#2	375.6	3.533	3.028	146.9	-1.727	4.332	145.3
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	147.1	4.539	-.6400	-1.646	1.462	H11050.	
SDev	.7	3.431	.4610	2.243	3.466	9.	
%RSD	.5043	75.60	72.04	136.3	237.0	.0833	
#1	146.6	2.112	-.3140	-.0596	3.913	H11050.	
#2	147.6	6.965	-.9659	-3.232	-.9883	H11060.	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC High	
High						5000.	
Low						-4.900	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	957	--	--	--	--	--	--
SDev	.7601052	--	--	--	--	--	--
%RSD	.0794663	--	--	--	--	--	--
#1	956	--	--	--	--	--	--
#2	957	--	--	--	--	--	--

Method: SW846 Sample Name: 90101-7091 Operator:
Run Time: 10/29/98 03:01:04
Comment: 5055_W(TAL)
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	13310.	11.61	232.7	.6708	-.2568	45910.	155.7
SDev	7.	.88	.1	.0007	.0634	117.	.3
%RSD	.0543	7.546	.0247	.1059	24.68	.2542	.2212
#1	13320.	12.23	232.8	.6713	-.2120	45820.	155.5
#2	13310.	10.99	232.7	.6703	-.3017	45990.	155.9
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	15.02	32.19	27740.	24210.	2173.	16.00	9965.
SDev	.08	.55	28.	47.	7.	.38	16.
%RSD	.5498	1.714	.1020	.1938	.3014	2.353	.1590
#1	14.96	32.58	27720.	24180.	2168.	16.27	9954.
#2	15.08	31.80	27760.	24250.	2177.	15.74	9977.

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.4573	98950.	1.273	38.92	442.4	1.562	343.3
SDev	.2176	346.	.422	.39	.6	.464	2.5
%RSD	47.59	.3499	33.15	.9919	.1393	29.72	.7397
#1	.3034	99200.	.9749	39.20	441.9	1.234	345.1
#2	.6111	98710.	1.572	38.65	442.8	1.890	341.5

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	304.8	4.398	521.7	16.68	-1.110	6.217	16.61
SDev	.4	.224	.8	.23	2.601	1.210	.39
%RSD	.1219	5.083	.1595	1.377	234.3	19.46	2.318
#1	304.5	4.556	522.3	16.52	.7292	5.361	16.89
#2	305.0	4.240	521.1	16.84	-2.949	7.072	16.34

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	8_2496	
Units						ppb	
Avge	16.70	4.510	9.610	-1.561	-.8975	526.0	
SDev	.54	1.811	.006	3.899	1.9530	.3	
%RSD	3.213	40.15	.0672	249.8	217.6	.0596	
#1	16.32	3.229	9.605	1.196	.4834	525.8	
#2	17.08	5.790	9.615	-4.318	-2.279	526.2	

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	955	--	--	--	--	--	--
SDev	.2474701	--	--	--	--	--	--
%RSD	.0259165	--	--	--	--	--	--
#1	955	--	--	--	--	--	--
#2	955	--	--	--	--	--	--

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Method: SW846 Sample Name: 90101L Operator:
Run Time: 10/29/98 03:06:27
Comment: 5042T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2687.	2.997	46.78	.0674	-.3056	9459.	31.97
SDev	7.	1.671	.18	.0178	.0359	37.	.14
%RSD	.2764	55.74	.3874	26.43	11.75	.3910	.4310
#1	2682.	1.816	46.65	.0548	-.2802	9485.	32.07
#2	2692.	4.179	46.91	.0799	-.3309	9433.	31.87
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.291	6.249	5839.	4927.	442.1	3.487	2006.
SDev	.014	.205	37.	12.	1.9	.336	6.
%RSD	.4260	3.280	.6273	.2446	.4372	9.623	.3011
#1	3.281	6.394	5813.	4936.	443.5	3.724	2010.
#2	3.301	6.104	5865.	4919.	440.7	3.249	2002.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.3177	20100.	-.6211	8.272	91.73	.4142	75.75
SDev	.0594	32.	1.6731	.117	.35	.0661	1.91
%RSD	18.71	.1568	269.4	1.416	.3837	15.96	2.520
#1	.3597	20120.	-1.804	8.190	91.98	.3674	77.10
#2	.2756	20070.	.5620	8.355	91.48	.4609	74.40
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	61.75	-.3237	107.0	.8931	-.4719	.8493	-.0191
SDev	.05	.0210	.1	.8048	.6106	1.960	2.1689
%RSD	.0739	6.483	.1018	90.11	129.4	230.7	11350.
#1	61.71	-.3089	106.9	.3241	-.0401	2.235	1.515
#2	61.78	-.3386	107.0	1.462	-.9036	-.5363	-1.553
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

Elem 2203/2 2068/1 2068/2 1960/1 1960/2 [illegible]

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Units						ppb
Avge	1.336	1.902	-1.284	-1.243	-.0991	109.6
SDev	2.289	.297	6.480	3.337	.7509	.8
%RSD	171.3	15.64	504.6	268.4	757.4	.7463
#1	-.2827	1.692	3.298	1.117	-.6301	110.2
#2	2.955	2.112	-5.867	-3.603	.4318	109.0
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	967	--	--	--	--	--	--
SDev	3.075897	--	--	--	--	--	--
%RSD	.3182429	--	--	--	--	--	--
#1	964	--	--	--	--	--	--
#2	969	--	--	--	--	--	--

Method: SW846 Sample Name: CCV3 Operator:
Run Time: 10/29/98 03:11:51
Comment: 5042T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	246500.	4796.	10030.	955.9	2415.	123500.	5016.
SDev	285.	8.	24.	.4	2.	42.	2.
%RSD	.1156	.1720	.2387	.0446	.0930	.0343	.0379
#1	246700.	4790.	10050.	955.6	2414.	123500.	5017.
#2	246300.	4802.	10010.	956.2	2417.	123500.	5015.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	276000.	5520.	11040.	1104.	2760.	138000.	5520.
Low	223900.	4478.	8960.	896.0	2239.	112000.	4478.

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2449.	12210.	99010.	122600.	4962.	2423.	47710.
SDev	.	10.	238.	64.	2.	2.	31.
%RSD	.0050	.0846	.2404	.0524	.0334	.0882	.0643
#1	2449.	12220.	99180.	122600.	4961.	2421.	47730.
#2	2449.	12200.	98840.	122700.	4963.	2424.	47690.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2760.	13800.	110400.	138000.	5520.	2760.	55200.
Low	2239.	11200.	89600.	112000.	4478.	2239.	44780.

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Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

Avge	1234.	118900.	4813.	2466.	2457.	2472.	2489.
SDev	1.	321.	1.	2.	3.	3.	20.
%RSD	.1154	.2695	.0191	.0735	.1312	.1365	.8042
#1	1235.	118700.	4813.	2465.	2455.	2470.	2504.
#2	1233.	119200.	4814.	2468.	2459.	2474.	2475.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1380.	138000.	5520.	2760.	2760.	2760.	2760.
Low	1120.	112000.	4478.	2239.	2239.	2239.	2239.
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	4982.	987.3	9927.	9736.	4736.	992.8	9762.
SDev	5.	.5	11.	37.	10.	.9	7.
%RSD	.1055	.0541	.1109	.3843	.2206	.0878	.0759
#1	4986.	986.9	9935.	9710.	4728.	992.2	9756.
#2	4978.	987.6	9919.	9763.	4743.	993.4	9767.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5520.	1104.	11040.	11040.	5520.	1104.	
Low	4478.	896.0	8960.	8960.	4478.	896.0	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	9724.	995.2	987.9	4734.	4736.	974.9	
SDev	52.	1.9	1.1	3.	17.	.9	
%RSD	.5389	.1877	.1137	.0641	.3626	.0923	
#1	9687.	993.9	988.7	4737.	4724.	974.3	
#2	9761.	996.6	987.1	4732.	4748.	975.5	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						1104.	
Low						896.0	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	945	--	--	--	--	--	--
SDev	1.149049	--	--	--	--	--	--
%RSD	.1216198	--	--	--	--	--	--
#1	944	--	--	--	--	--	--
#2	946	--	--	--	--	--	--

Method: SW846 Sample Name: CC83 Operator:
Run Time: 10/29/98 03:17:13
Comment: 5042T1
Mode: CONC Corr. Factor: 1

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Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

Avge	-7.001	.8388	-.0545	-.0645	-.1096	-16.14	-.2495
SDev	1.341	1.493	.0151	.0256	.0262	.46	.2567
%RSD	19.15	178.0	27.62	39.70	23.93	2.879	102.9
#1	-7.950	-.2172	-.0652	-.0826	-.1281	-16.47	-.0680
#2	-6.053	1.895	-.0439	-.0464	-.0910	-15.81	-.4310
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	4.000	5.000	1.000	1.500	400.0	5.000
Low	-199.0	-4.000	-5.000	-1.000	-1.500	-400.0	-5.000
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.0675	.2990	-8.803	-5.718	-.1229	-.1281	184.4
SDev	.0759	.0126	6.334	2.493	.0740	.3770	4.2
%RSD	112.5	4.200	71.96	43.60	60.25	294.3	2.303
#1	-.1212	.3079	-4.324	-3.955	-.1752	-.3947	187.4
#2	-.0138	.2901	-13.28	-7.481	-.0705	.1385	181.4
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	5.000	50.00	200.0	5.000	5.000	1000.
Low	-5.000	-5.000	-50.00	-200.0	-5.000	-5.000	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.1185	-226.5	-.0067	.0053	.0363	.2169	2.230
SDev	.0245	285.3	2.0049	.3887	.1954	.1010	2.637
%RSD	20.65	126.0	29960.	7379.	537.7	46.57	118.3
#1	.1358	-24.78	1.411	-.2696	-.1018	.2884	.3648
#2	.1012	-428.3	-1.424	.2801	.1745	.1455	4.095
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	1000.	9.900	5.000	15.00	10.00	20.00
Low	-5.000	-1000.	-9.900	-5.000	-9.900	-10.00	-20.00
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	-.1636	-.2525	.4702	-1.737	-1.199	.5899	-.5027
SDev	.0010	.1912	.2905	.076	2.008	1.117	.5151
%RSD	.6415	75.71	61.79	4.381	167.5	189.4	102.5
#1	-.1629	-.3877	.6756	-1.790	.2213	1.380	-.1385
#2	-.1644	-.1173	.2647	-1.683	-2.618	-.2000	-.8669
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5.000	5.000	5.000	3.000	5.000	10.00	
Low	-3.000	-3.000	-5.000	-3.000	-5.000	-10.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	-2.367	-1.007	3.764	-1.914	-.8540	3.534	
SDev	.371	1.783	.218	3.996	5.0053	.477	
%RSD	15.69	177.1	5.786	208.8	586.1	13.50	
#1	-2.629	.2539	3.610	-4.739	2.685	3.871	

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#2	-2.104	-2.268	3.918	.9118	-4.393	3.197
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						15.00
Low						-9.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	965	--	--	--	--	--	--
SDev	2.085974	--	--	--	--	--	--
%RSD	.2162471	--	--	--	--	--	--
#1	963	--	--	--	--	--	--
#2	966	--	--	--	--	--	--

Method: SW846 Sample Name: 89743-5X-7080 Operator:
Run Time: 10/29/98 03:22:35
Comment: 5042T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	9998.	21.95	197.1	.5936	6.423	23030.	196.4
SDev	14.	.22	.4	.0007	.106	69.	.9
%RSD	.1372	.9860	.1962	.1122	1.649	.3002	.4566
#1	10010.	21.79	196.8	.5931	6.497	23080.	197.0
#2	9989.	22.10	197.4	.5940	6.348	22980.	195.8
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	25.23	547.9	123100.	5814.	676.5	271.7	773.9
SDev	.08	3.1	607.	34.	3.8	.6	6.0
%RSD	.3099	.5602	.4933	.5884	.5603	.2238	.7744
#1	25.18	550.1	122700.	5838.	679.2	272.1	778.1
#2	25.29	545.8	123600.	5790.	673.8	271.3	769.6
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.678	558.0	-1.363	105.6	3091.	34.91	2472.
SDev	.236	58.2	.899	.5	18.	.59	4.
%RSD	5.041	10.43	65.95	.4791	.5710	1.694	.1467
#1	4.511	599.1	-1.999	105.9	3104.	34.49	2470.
#2	4.845	516.8	-.7276	105.2	3079.	35.33	2475.

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	103.8	62.85	660.8	492.1	1.026	25.62	491.3
SDev	.2	1.50	.3	2.2	3.196	1.17	1.5
%RSD	.1618	2.381	.0505	.4398	311.4	4.579	.3113
#1	104.0	63.90	661.0	493.6	3.287	24.79	492.4
#2	103.7	61.79	660.6	490.5	-1.234	26.45	490.2

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	492.4	27.02	22.79	-.7721	1.912	39.53
SDev	2.5	1.73	.07	5.3580	2.117	.13
%RSD	.5041	6.389	.2861	693.9	110.7	.3236
#1	494.2	25.80	22.74	3.017	3.409	39.62
#2	490.7	28.24	22.84	-4.561	.4148	39.44

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	977	--	--	--	--	--	--
SDev	4.507806	--	--	--	--	--	--
%RSD	.4613395	--	--	--	--	--	--
#1	974	--	--	--	--	--	--
#2	980	--	--	--	--	--	--

Method: SW846 Sample Name: 89742-5X Operator:
Run Time: 10/29/98 03:27:56
Comment: 5042T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	8934.	17.98	224.8	.5419	10.15	14540.	224.7
SDev	15.	.33	.5	.0077	.18	4.	.1
%RSD	.1685	1.811	.2132	1.419	1.784	.0277	.0368
#1	8924.	18.21	225.2	.5365	10.02	14540.	224.8
#2	8945.	17.75	224.5	.5474	10.28	14530.	224.6

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	28.18	519.7	152600.	3625.	716.5	311.6	790.0
SDev	.06	.7	117.	2.	.0	.2	4.2
%RSD	.2111	.1270	.0770	.0551	.0055	.0794	.5286
#1	28.14	519.2	152700.	3624.	716.4	311.8	787.1
#2	28.22	520.2	152500.	3626.	716.5	311.5	793.0

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.949	246.0	1.058	101.9	2815.	36.73	2466.
SDev	.120	10.2	4.079	.3	2.	.20	2.
%RSD	4.085	4.129	385.6	.3142	.0774	.5547	.0989
#1	3.035	253.2	-1.826	102.1	2813.	36.59	2468.
#2	2.864	238.8	3.942	101.6	2816.	36.88	2464.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	78.47	80.78	662.8	503.1	2.796	22.80	507.7
SDev	.11	.16	.2	1.6	1.641	1.01	1.5
%RSD	.1397	.2006	.0293	.3253	58.69	4.431	.2991
#1	78.54	80.90	662.7	501.9	1.636	22.09	506.6
#2	78.39	80.67	662.9	504.2	3.957	23.51	508.8

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	500.7	23.38	21.61	3.115	2.625	39.33	
SDev	1.7	2.08	1.13	1.232	1.845	.86	
%RSD	.3385	8.886	5.221	39.55	70.30	2.175	
#1	499.5	21.91	22.40	2.244	1.320	39.94	
#2	501.9	24.85	20.81	3.986	3.930	38.73	

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Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	985	--	--	--	--	--	--
SDev	1.308173	--	--	--	--	--	--
%RSD	.1328702	--	--	--	--	--	--
#1	984	--	--	--	--	--	--
#2	985	--	--	--	--	--	--

Method: SW846 Sample Name: ICSA2 Operator:
Run Time: 10/29/98 03:33:18
Comment: 504271
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	485400.	1.829	3.839	-.1468	.2931	443200.	.3298
SDev	1137.	.327	.015	.0117	.1844	63.	.1745
%RSD	.2343	17.85	.3991	7.982	62.91	.0142	52.89
#1	486200.	1.598	3.829	-.1551	.1627	443200.	.4532
#2	484600.	2.060	3.850	-.1385	.4235	443300.	.2065
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600000.	10.00	20.00	5.000	3.500	600000.	5.000
Low	400000.	-10.00	-10.00	-5.000	-3.500	400000.	-5.000

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.2384	-2.120	186900.	488600.	1.018	1.846	107.7
SDev	.2766	.215	601.	43.	.006	.194	3.4
%RSD	116.0	10.14	.3218	.0088	.5825	10.52	3.119
#1	.0428	-2.272	187300.	488600.	1.023	1.708	110.1
#2	.4340	-1.968	186500.	488700.	1.014	1.983	105.4
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	20.00	240000.	600000.	10.00	10.00	500.0
Low	-5.000	-10.00	160000.	400000.	-5.000	-5.000	-500.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.6638	-468.3	-2.339	1.817	-.9534	-.4533	3.987
SDev	.2861	149.8	5.353	.028	.1636	.2616	4.314
%RSD	43.10	31.98	228.8	1.555	17.16	57.73	108.2
#1	.8661	-362.4	1.446	1.837	-1.069	-.6383	.9370
#2	.4615	-574.2	-6.125	1.797	-.8377	-.2682	7.038
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.00	1000.	10.00	10.00	10.00	10.00	15.00
Low	-10.00	-2000.	-10.00	-5.000	-10.00	-5.000	-15.00

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1

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Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	1.784	-.9098	-1.444	-.9287	-7.970	1.684	14.07
SDev	.068	.8858	.296	.3542	2.541	1.106	1.13
%RSD	3.830	97.37	20.47	38.13	31.88	65.65	8.013
#1	1.832	-1.536	-1.653	-1.179	-6.174	2.466	14.87
#2	1.736	-.2834	-1.235	-.6783	-9.767	.9022	13.27
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10.00	10.00	10.00	5.000	10.00	10.00	
Low	-5.000	-5.000	-5.000	-5.000	-10.00	-10.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	-8.436	4.194	-3.370	-5.093	-9.420	1.273	
SDev	1.094	.690	4.702	5.980	.824	.053	
%RSD	12.97	16.45	139.5	117.4	8.753	4.167	
#1	-9.209	3.706	-.8455	-.8649	-8.837	1.235	
#2	-7.662	4.682	-6.695	-9.321	-10.00	1.310	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						15.00	
Low						-15.00	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	917	--	--	--	--	--	--
SDev	3.906782	--	--	--	--	--	--
%RSD	.4260569	--	--	--	--	--	--
#1	914	--	--	--	--	--	--
#2	920	--	--	--	--	--	--

Method: SW846 Sample Name: ICSA82 Operator:
Run Time: 10/29/98 03:38:40
Comment: 5055_W(TAL)
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	500900.	100.8	108.9	97.15	94.57	457400.	97.07
SDev	726.	2.4	.1	.05	.48	1004.	.21
%RSD	.1450	2.349	.1145	.0497	.5079	.2196	.2132
#1	501400.	99.09	109.0	97.12	94.91	456700.	97.21
#2	500400.	102.4	108.8	97.19	94.23	458100.	96.92
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600000.	120.0	120.0	120.0	120.0	600000.	120.0
Low	400000.	80.00	80.00	80.00	80.00	400000.	80.00
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

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Avge	95.51	99.92	189100.	514300.	98.78	94.42	9811.
SDev	.07	.00	356.	482.	.23	.45	.
%RSD	.0735	.0045	.1880	.0937	.2284	.4768	.0038
#1	95.56	99.92	189400.	514000.	98.62	94.10	9811.
#2	95.46	99.92	188900.	514700.	98.94	94.74	9810.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	120.0	120.0	240000.	600000.	120.0	120.0	12000.
Low	80.00	80.00	160000.	400000.	80.00	80.00	8000.

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	104.3	10170.	90.67	100.9	100.4	99.24	L4.606
SDev	.8	97.	.32	.4	.0	1.03	2.852
%RSD	.7678	.9540	.3581	.3781	.0302	1.041	61.93
#1	104.8	10240.	90.44	101.1	100.4	98.51	L6.622
#2	103.7	10110.	90.90	100.6	100.4	99.97	L2.589
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	120.0	12000.	120.0	120.0	120.0	120.0	120.0
Low	80.00	8000.	80.00	80.00	80.00	80.00	80.00

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	108.9	99.78	97.56	92.47	94.58	99.15	112.1
SDev	.1	.53	1.17	.21	4.65	.83	.3
%RSD	.1198	.5295	1.195	.2287	4.916	.8343	.3006
#1	109.0	99.40	96.74	92.32	91.29	99.73	112.4
#2	108.9	100.1	98.39	92.62	97.86	98.56	111.9
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	120.0	120.0	120.0	120.0	120.0	120.0	
Low	80.00	80.00	80.00	80.00	80.00	80.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	82.65	102.8	91.79	104.0	89.85	104.3
SDev	.49	2.5	2.45	3.9	5.02	.9
%RSD	.5873	2.394	2.664	3.759	5.585	.8884
#1	82.31	104.5	90.06	101.3	86.30	105.0
#2	82.99	101.1	93.52	106.8	93.40	103.7
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						120.0
Low						80.00

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	902	--	--	--	--	--	--
SDev	2.050627	--	--	--	--	--	--

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%RSD	.2273737	--	--	--	--	--	--
#1	900	--	--	--	--	--	--
#2	903	--	--	--	--	--	--

Method: SW846 Sample Name: CCV4 Operator:
Run Time: 10/29/98 03:44:03
Comment: 5055_W(TAL)
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	249500.	4999.	9982.	988.3	2526.	127200.	5201.
SDev	1582.	42.	63.	9.5	27.	1304.	50.
%RSD	.6343	.8462	.6284	.9594	1.084	1.025	.9696
#1	248400.	4969.	9938.	981.6	2506.	126300.	5165.
#2	250600.	5029.	10030.	995.0	2545.	128200.	5236.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	276000.	5520.	11040.	1104.	2760.	138000.	5520.
Low	223900.	4478.	8960.	896.0	2239.	112000.	4478.

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2530.	12460.	98130.	126500.	5136.	2505.	48800.
SDev	23.	69.	910.	1453.	49.	22.	293.
%RSD	.9164	.5515	.9268	1.148	.9575	.8607	.6004
#1	2514.	12410.	97490.	125500.	5101.	2489.	48590.
#2	2546.	12510.	98780.	127600.	5171.	2520.	49000.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2760.	13800.	110400.	138000.	5520.	2760.	55200.
Low	2239.	11200.	89600.	112000.	4478.	2239.	44780.

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1258.	120100.	4952.	2554.	2551.	2552.	2611.
SDev	8.	360.	53.	23.	22.	24.	47.
%RSD	.6645	.3000	1.073	.8942	.8507	.9424	1.788
#1	1252.	119800.	4914.	2538.	2536.	2535.	2578.
#2	1264.	120300.	4989.	2571.	2566.	2569.	2644.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1380.	138000.	5520.	2760.	2760.	2760.	2760.
Low	1120.	112000.	4478.	2239.	2239.	2239.	2239.

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	5018.	1035.	10030.	10170.	4931.	1029.	10140.
SDev	37.	9.	81.	94.	32.	12.	67.
%RSD	.7359	.8459	.8051	.9251	.6514	1.183	.6616
#1	4992.	1028.	9973.	10100.	4908.	1020.	10100.

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#2	5044.	1041.	10090.	10230.	4953.	1037.	10190.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5520.	1104.	11040.	11040.	5520.	1104.	
Low	4478.	896.0	8960.	8960.	4478.	896.0	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	10180.	1030.	1027.	4909.	4941.	993.8	
SDev	108.	17.	3.	18.	39.	8.5	
%RSD	1.056	1.623	.2986	.3670	.7924	.8555	
#1	10100.	1018.	1024.	4896.	4914.	987.8	
#2	10260.	1042.	1029.	4922.	4969.	999.8	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						1104.	
Low						896.0	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	937	--	--	--	--	--	--
SDev	6.204879	--	--	--	--	--	--
%RSD	.6622335	--	--	--	--	--	--
#1	941	--	--	--	--	--	--
#2	933	--	--	--	--	--	--

Method: SW846 Sample Name: CCB4 Operator:
Run Time: 10/29/98 03:49:25
Comment: 5055_W(TAL)
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	8.850	-.4087	.0328	-.0692	.0244	2.235	-.4137
SDev	3.682	1.2711	.0742	.0306	.0834	.159	.2306
%RSD	41.61	311.0	226.5	44.19	342.5	7.094	55.75
#1	11.45	.4901	-.0197	-.0909	-.0346	2.123	-.2506
#2	6.246	-1.307	.0852	-.0476	.0833	2.347	-.5768
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	4.000	5.000	1.000	1.500	400.0	5.000
Low	-199.0	-4.000	-5.000	-1.000	-1.500	-400.0	-5.000

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.2155	.1353	9.735	10.87	-.1269	-.1228	195.9
SDev	.0979	.0034	3.674	2.95	.0049	.0217	13.3
%RSD	45.43	2.532	37.74	27.18	3.855	17.63	6.768
#1	.1463	.1377	12.33	8.780	-.1234	-.1075	205.3
#2	.2847	.1329	7.137	12.96	-.1303	-.1381	186.5

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	5.000	50.00	200.0	5.000	5.000	1000.
Low	-5.000	-5.000	-50.00	-200.0	-5.000	-5.000	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.6488	-457.6	-.7302	.3857	-.1069	.0954	.5584
SDev	.0448	183.7	2.2298	.1808	.0378	.5336	.4755
%RSD	6.907	40.15	305.3	46.87	35.37	559.1	85.17
#1	.6805	-327.7	-2.307	.5136	-.1337	-.2819	.8946
#2	.6171	-587.5	.8464	.2579	-.0802	.4727	.2221
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	1000.	9.900	5.000	15.00	10.00	20.00
Low	-5.000	-1000.	-9.900	-5.000	-9.900	-10.00	-20.00
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	-.1689	-.3219	.1463	-2.410	.1999	-2.394	-2.739
SDev	.0152	1.4610	.3359	2.215	1.122	.719	3.388
%RSD	8.979	453.9	229.5	91.93	561.3	30.05	123.7
#1	-.1796	-1.355	-.0912	L-3.976	-.5935	-1.885	-5.135
#2	-.1582	.7112	.3838	-.8434	.9933	-2.903	-.3434
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5.000	5.000	5.000	3.000	5.000	10.00	
Low	-3.000	-3.000	-5.000	-3.000	-5.000	-10.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	-2.261	-2.400	-2.407	-2.020	1.296	1.937	
SDev	1.630	2.430	2.707	5.993	1.310	.786	
%RSD	72.10	101.3	112.5	296.7	101.1	40.55	
#1	-3.414	-.6813	-4.321	-6.258	2.222	1.382	
#2	-1.108	-4.118	-.4922	2.218	.3696	2.493	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						15.00	
Low						-9.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	972	--	--	--	--	--	--
SDev	9.899495	--	--	--	--	--	--
%RSD	1.018126	--	--	--	--	--	--
#1	965	--	--	--	--	--	--
#2	979	--	--	--	--	--	--

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Raw data saved under 7095HG1.

File : 7096HG1.WSL

File Record	Laboratory Sample Name	Customer/EPA Sample Name	Type	Matrix	Instrument Dil.	Date	Time	Flags
1	STD1		3		1.0	10/27/98	17:50:17	
2	STD2		3		1.0	10/27/98	17:53:16	
3	STD3		3		1.0	10/27/98	17:56:15	
4	STD4		3		1.0	10/27/98	17:59:14	
5	STD5		3		1.0	10/27/98	18:02:13	
6	STD6		3		1.0	10/27/98	18:05:12	
7	AICV/ACCV1		0		1.0	10/27/98	18:08:09	
8	ICB/CCB1		0		1.0	10/27/98	18:11:05	
9	PBL102798/7095		0		1.0	10/27/98	18:13:59	
10	BSL102798/7095		0		1.0	10/27/98	18:16:52	
11	90292		0		1.0	10/27/98	18:19:45	
12	92092D		0		1.0	10/27/98	18:23:24	
13	92092MS		0		1.0	10/27/98	18:26:17	
14	92092MSD		0		1.0	10/27/98	18:29:10	
15	91415		0		1.0	10/27/98	18:32:03	
16	TCTB102498		0		1.0	10/27/98	18:34:56	
17	92048		0		1.0	10/27/98	18:37:49	
18	92049		0		1.0	10/27/98	18:40:42	
19	ACCV2		0		1.0	10/27/98	18:43:37	
20	CCB2		0		1.0	10/27/98	18:46:33	
21	92050		0		1.0	10/27/98	18:49:26	
22	92051		0		1.0	10/27/98	18:52:18	
23	92093		0		1.0	10/27/98	18:55:11	
24	92152		0		1.0	10/27/98	18:58:04	
25	91619		0		1.0	10/27/98	19:00:57	
26	91620		0		1.0	10/27/98	19:03:50	
27	91621		0		1.0	10/27/98	19:06:43	
28	91622		0		1.0	10/27/98	19:09:36	
29	91623		0		1.0	10/27/98	19:12:29	
30	91624		0		1.0	10/27/98	19:15:22	
31	ACCV3		0		1.0	10/27/98	19:18:16	
32	CCB3		0		1.0	10/27/98	19:21:11	
33	91625		0		1.0	10/27/98	19:24:05	
34	91626		0		1.0	10/27/98	19:26:58	
35	91659		0		1.0	10/27/98	19:29:51	
36	91664		0		1.0	10/27/98	19:32:46	
37	TCTB102798-1		0		1.0	10/27/98	19:35:40	
38	TCTB102798-2		0		1.0	10/27/98	19:38:35	
39	ACCV4		0		1.0	10/27/98	19:41:30	
40	CCB4		0		1.0	10/27/98	19:44:25	
41	PBW102798/7097		0		1.0	10/27/98	19:47:19	
42	BSW102798/7097		0		1.0	10/27/98	19:50:13	
43	LCSW/7097		0		1.0	10/27/98	19:53:07	
44	90328		0		1.0	10/27/98	19:56:02	
45	90328D		0		1.0	10/27/98	19:58:57	
46	90328MS		0		1.0	10/27/98	20:01:52	
47	90328MSD		0		1.0	10/27/98	20:04:47	
48	90329		0		1.0	10/27/98	20:07:42	
49	90330		0		1.0	10/27/98	20:10:37	
50	ACCV5		0		1.0	10/27/98	20:13:32	
51	CCB5		0		1.0	10/27/98	20:16:28	
52	PBW102798		0		1.0	10/27/98	20:19:24	
53	BSW102798		0		1.0	10/27/98	20:22:21	
54	LCSW		0		1.0	10/27/98	20:25:18	
55	91152		0		1.0	10/27/98	20:28:15	

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56	91152D	0	1.0	10/27/98	20:31:12
57	91152MS	0	1.0	10/27/98	20:34:09
58	91152MSD	0	1.0	10/27/98	20:37:06
59	91153	0	1.0	10/27/98	20:40:03
60	91154	0	1.0	10/27/98	20:43:01
61	91155	0	1.0	10/27/98	20:45:59
62	ACCV6	0	1.0	10/27/98	20:48:56
63	CCB6	0	1.0	10/27/98	20:51:51
64	91156	0	1.0	10/27/98	20:54:48
65	91157	0	1.0	10/27/98	20:57:47
66	91158	0	1.0	10/27/98	21:00:46
67	91159	0	1.0	10/27/98	21:03:45
68	91160	0	1.0	10/27/98	21:06:44
69	91161	0	1.0	10/27/98	21:09:43
70	91162	0	1.0	10/27/98	21:12:42
71	91163	0	1.0	10/27/98	21:15:41
72	91164	0	1.0	10/27/98	21:18:40
73	91165	0	1.0	10/27/98	21:21:39
74	ACCV7	0	1.0	10/27/98	21:24:37
75	CCB7	0	1.0	10/27/98	21:27:33
76	91167	0	1.0	10/27/98	21:30:32
77	90679	0	1.0	10/27/98	21:33:32
78	90680	0	1.0	10/27/98	21:36:33
79	90838	0	1.0	10/27/98	21:39:34
80	90839	0	1.0	10/27/98	21:42:40
81	ACCV8	0	1.0	10/27/98	21:45:39
82	CCB8	0	1.0	10/27/98	21:48:34

306299

Michael Bilidari

Folder: 7095HG1 / 7097Hg1 / 7096Hg1 Page 1

17:50:17 27 Oct 1998 Protocol: SW846 10/27/98

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 0 17:50:17 27 Oct 1998 HG

Hg .000 ppb 1016
Ave. Int. = 1016 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 1 17:53:16 27 Oct 1998 HG

Hg .100 ppb 6086
Ave. Int. = 6086 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 2 17:56:15 27 Oct 1998 HG

Hg 1.00 ppb 53619
Ave. Int. = 53619 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 3 17:59:14 27 Oct 1998 HG

Hg 2.00 ppb 106076
Ave. Int. = 106076 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 4 18:02:13 27 Oct 1998 HG

Hg 5.00 ppb 256382
Ave. Int. = 256382 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 5 18:05:12 27 Oct 1998 HG

Hg 10.0 ppb 524472
Ave. Int. = 524472 S. D. = 0

306300

Protocol: SW846

Rev: 3.001 Time: 18:05:18 27 Oct 1998

Folder: 7095HG1 Seq: 6 Print: On

User: Batch: Id: Std6Rep1 Cup: Gas: 0.30 LPM

State: Idle Macro SW846 35: F3 Print Xmit: Off Autosampler: On

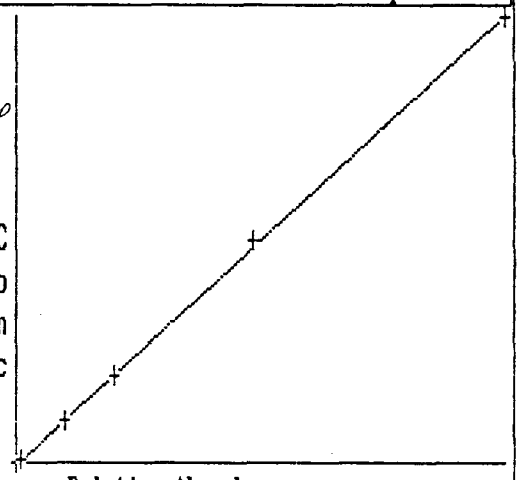
CALIBRATION: Line Calibration

Line: Hg

	Conc.	Calc.	Dev.	Accepted	
				Linear MP	
S1	.000	.009	.009	Quadratic	
S2	.100	.107	.007	WtdLinear	
S3	1.00	1.02	.017		C
S4	2.00	2.02	.023	Accept	o
S5	5.00	4.90	-.097		n
S6	10.0	10.0	.041	StdAdd	c

A .0000000 r .999920

B 1.91640e-5 C -1.01360e-2



Relative Absorbance

	Mean	%RSD	
S1	1016	0	1016
S2	6086	0	6086
S3	53619	0	53619
S4	106076	0	106076
S5	256382	0	256382
S6	524472	0	524472

New calibration coefficients stored

306301

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3ICV/CCV Seq: 6 18:08:09 27 Oct 1998 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.6	4.98	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 7 18:11:05 27 Oct 1998 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.035	.100	ppb	.000

*** Sample ID: PBL102798 Seq: 8 18:13:59 27 Oct 1998 HG

Hg .064 ppb .000 .064

*** Sample ID: BSL102798 Seq: 9 18:16:52 27 Oct 1998 HG

Hg 5.17 ppb .000 5.17

*** Sample ID: 90292 Seq: 10 18:19:45 27 Oct 1998 HG

Hg .066 ppb .000 .066

*** Sample ID: 92092D Seq: 11 18:23:24 27 Oct 1998 HG

Hg .026 ppb .000 .026

*** Sample ID: 92092MS Seq: 12 18:26:17 27 Oct 1998 HG

Hg 5.19 ppb .000 5.19

*** Sample ID: 92092MSD Seq: 13 18:29:10 27 Oct 1998 HG

Hg 5.22 ppb .000 5.22

*** Sample ID: 91415 Seq: 14 18:32:03 27 Oct 1998 HG

Hg .068 ppb .000 .068

*** Sample ID: TCTB102498 Seq: 15 18:34:56 27 Oct 1998 HG

Hg .076 ppb .000 .076

*** Sample ID: 92048 Seq: 16 18:37:49 27 Oct 1998 HG

Hg .080 ppb .000 .080

*** Sample ID: 92049 Seq: 17 18:40:42 27 Oct 1998 HG

Hg .085 ppb .000 .085

306302

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 2 Ck2 ACCV Seq: 18 18:43:37 27 Oct 1998 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	5.04	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 19 18:46:33 27 Oct 1998 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.038	.100	ppb	.000

*** Sample ID: 92050 Seq: 20 18:49:26 27 Oct 1998 HG

Hg .088 ppb .000 .088

*** Sample ID: 92051 Seq: 21 18:52:18 27 Oct 1998 HG

Hg .086 ppb .000 .086

*** Sample ID: 92093 Seq: 22 18:55:11 27 Oct 1998 HG

Hg .083 ppb .000 .083

*** Sample ID: 92152 Seq: 23 18:58:04 27 Oct 1998 HG

Hg .084 ppb .000 .085

*** Sample ID: 91619 Seq: 24 19:00:57 27 Oct 1998 HG

Hg .117 ppb .000 .118

*** Sample ID: 91620 Seq: 25 19:03:50 27 Oct 1998 HG

Hg .087 ppb .000 .087

*** Sample ID: 91621 Seq: 26 19:06:43 27 Oct 1998 HG

Hg .081 ppb .000 .081

*** Sample ID: 91622 Seq: 27 19:09:36 27 Oct 1998 HG

Hg .084 ppb .000 .084

*** Sample ID: 91623 Seq: 28 19:12:29 27 Oct 1998 HG

Hg .138 ppb .000 .138

*** Sample ID: 91624 Seq: 29 19:15:22 27 Oct 1998 HG

Hg .081 ppb .000 .081

306303

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Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 2  Ck2 ACCV     Seq:  30      19:18:16 27 Oct 1998 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          100.     5.01    5.00   ppb        .000

*** Check Standard: 1  Ck1 CCB      Seq:  31      19:21:11 27 Oct 1998 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .036     .100     ppb        .000

*** Sample ID: 91625                 Seq:  32     19:24:05 27 Oct 1998 HG

Hg    .088    ppb       .000      .088

*** Sample ID: 91626                 Seq:  33     19:26:58 27 Oct 1998 HG

Hg    .091    ppb       .000      .091

*** Sample ID: 91659                 Seq:  34     19:29:51 27 Oct 1998 HG

Hg    .088    ppb       .000      .088

*** Sample ID: 91664                 Seq:  35     19:32:46 27 Oct 1998 HG

Hg    .083    ppb       .000      .083

*** Sample ID: TCTB102798            Seq:  36     19:35:40 27 Oct 1998 HG
                            -1
Hg    .074    ppb       .000      .074

*** Sample ID: TCTB102798            Seq:  37     19:38:35 27 Oct 1998 HG
                            -2
Hg    .078    ppb       .000      .078

*** Check Standard: 2  Ck2 ACCV     Seq:  38      19:41:30 27 Oct 1998 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          100.     5.02    5.00   ppb        .000

*** Check Standard: 1  Ck1 CCB      Seq:  39      19:44:25 27 Oct 1998 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .039     .100     ppb        .000

*** Sample ID: PBW102798 /7097       Seq:  40     19:47:19 27 Oct 1998 HG

Hg    .109    ppb       .000      .109

*** Sample ID: BSW102798             Seq:  41     19:50:13 27 Oct 1998 HG

Hg    1.06    ppb       .000      1.06
```

306304

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LCSW Seq: 42 19:53:07 27 Oct 1998 HG

Hg 5.29 ppb .000 5.29

*** Sample ID: 90328 Seq: 43 19:56:02 27 Oct 1998 HG

Hg .081 ppb .000 .081

*** Sample ID: 90328D Seq: 44 19:58:57 27 Oct 1998 HG

Hg .092 ppb .000 .092

*** Sample ID: 90328MS Seq: 45 20:01:52 27 Oct 1998 HG

Hg 1.06 ppb .000 1.06

*** Sample ID: 90328MSD Seq: 46 20:04:47 27 Oct 1998 HG

Hg 1.11 ppb .000 1.11

*** Sample ID: 90329 Seq: 47 20:07:42 27 Oct 1998 HG

Hg .092 ppb .000 .092

*** Sample ID: 90330 Seq: 48 20:10:37 27 Oct 1998 HG

Hg .090 ppb .000 .090

*** Check Standard: 2 Ck2 ACCV Seq: 49 20:13:32 27 Oct 1998 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.0	4.95	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 50 20:16:28 27 Oct 1998 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.044	.100	ppb	.000

*** Sample ID: PBW102798 /7096 Seq: 51 20:19:24 27 Oct 1998 HG

Hg .052 ppb .000 .052

*** Sample ID: BSW102798 Seq: 52 20:22:21 27 Oct 1998 HG

Hg 1.04 ppb .000 1.04

*** Sample ID: LCSW Seq: 53 20:25:18 27 Oct 1998 HG

Hg 5.01 ppb .000 5.01

306305

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 91152 Seq: 54 20:28:15 27 Oct 1998 HG

Hg .045 ppb .000 .045

*** Sample ID: 91152D Seq: 55 20:31:12 27 Oct 1998 HG

Hg .074 ppb .000 .074

*** Sample ID: 91152MS Seq: 56 20:34:09 27 Oct 1998 HG

Hg 1.06 ppb .000 1.06

*** Sample ID: 91152MSD Seq: 57 20:37:06 27 Oct 1998 HG

Hg 1.06 ppb .000 1.06

*** Sample ID: 91153 Seq: 58 20:40:03 27 Oct 1998 HG

Hg .132 ppb .000 .132

*** Sample ID: 91154 Seq: 59 20:43:01 27 Oct 1998 HG

Hg .039 ppb .000 .039

*** Sample ID: 91155 Seq: 60 20:45:59 27 Oct 1998 HG

Hg .063 ppb .000 .063

*** Check Standard: 2 Ck2 ACCV Seq: 61 20:48:56 27 Oct 1998 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.3	4.97	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 62 20:51:51 27 Oct 1998 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.042	.100	ppb	.000

*** Sample ID: 91156 Seq: 63 20:54:48 27 Oct 1998 HG

Hg .049 ppb .000 .049

*** Sample ID: 91157 Seq: 64 20:57:47 27 Oct 1998 HG

Hg .091 ppb .000 .091

*** Sample ID: 91158 Seq: 65 21:00:46 27 Oct 1998 HG

Hg .112 ppb .000 .112

306306

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 91159 Seq: 66 21:03:45 27 Oct 1998 HG

Hg .061 ppb .000 .061

*** Sample ID: 91160 Seq: 67 21:06:44 27 Oct 1998 HG

Hg .054 ppb .000 .054

*** Sample ID: 91161 Seq: 68 21:09:43 27 Oct 1998 HG

Hg .083 ppb .000 .083

*** Sample ID: 91162 Seq: 69 21:12:42 27 Oct 1998 HG

Hg .058 ppb .000 .058

*** Sample ID: 91163 Seq: 70 21:15:41 27 Oct 1998 HG

Hg .067 ppb .000 .067

*** Sample ID: 91164 Seq: 71 21:18:40 27 Oct 1998 HG

Hg .057 ppb .000 .057

*** Sample ID: 91165 Seq: 72 21:21:39 27 Oct 1998 HG

Hg .050 ppb .000 .050

*** Check Standard: 2 Ck2 ACCV Seq: 73 21:24:37 27 Oct 1998 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.8	4.89	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 74 21:27:33 27 Oct 1998 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.035	.100	ppb	.000

*** Sample ID: 91167 Seq: 75 21:30:32 27 Oct 1998 HG

Hg .093 ppb .000 .093

*** Sample ID: 90679 Seq: 76 21:33:32 27 Oct 1998 HG

Hg .047 ppb .000 .047

*** Sample ID: 90680 Seq: 77 21:36:33 27 Oct 1998 HG

Hg .041 ppb .000 .041

306307

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 90838 dilute 5X Seq: 78 21:39:34 27 Oct 1998 HG

Hg	13.8	ppb	.000	13.8

*** Sample ID: 90839 RR Seq: 79 21:42:40 27 Oct 1998 HG

Hg	.153	ppb	.000	.153

*** Check Standard: 2 Ck2 ACCV Seq: 80 21:45:39 27 Oct 1998 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.5	4.87	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 81 21:48:34 27 Oct 1998 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.038	.100	ppb	.000

306308

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 0 17:50:17 27 Oct 1998 HG

Hg .000 ppb 1016
Ave. Int. = 1016 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 1 17:53:16 27 Oct 1998 HG

Hg .100 ppb 6086
Ave. Int. = 6086 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 2 17:56:15 27 Oct 1998 HG

Hg 1.00 ppb 53619
Ave. Int. = 53619 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 3 17:59:14 27 Oct 1998 HG

Hg 2.00 ppb 106076
Ave. Int. = 106076 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 4 18:02:13 27 Oct 1998 HG

Hg 5.00 ppb 256382
Ave. Int. = 256382 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 5 18:05:12 27 Oct 1998 HG

Hg 10.0 ppb 524472
Ave. Int. = 524472 S. D. = 0

*** Check Standard: 3 Ck3ICV/CCV Seq: 6 18:08:09 27 Oct 1998 HG
Line Flag Intensities
Hg 260330

*** Check Standard: 1 Ck1 CCB Seq: 7 18:11:05 27 Oct 1998 HG
Line Flag Intensities
Hg 2365

*** Sample ID: PBL102798 Seq: 8 18:13:59 27 Oct 1998 HG

Hg .064 ppb 3864

*** Sample ID: BSL102798 Seq: 9 18:16:52 27 Oct 1998 HG

Hg 5.17 ppb 270321

306309

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 90292 Seq: 10 18:19:45 27 Oct 1998 HG

Hg .066 ppb 3972

*** Sample ID: 92092D Seq: 11 18:23:24 27 Oct 1998 HG

Hg .026 ppb 1868

*** Sample ID: 92092MS Seq: 12 18:26:17 27 Oct 1998 HG

Hg 5.19 ppb 271558

*** Sample ID: 92092MSD Seq: 13 18:29:10 27 Oct 1998 HG

Hg 5.22 ppb 272777

*** Sample ID: 91415 Seq: 14 18:32:03 27 Oct 1998 HG

Hg .068 ppb 4055

*** Sample ID: TCTB102498 Seq: 15 18:34:56 27 Oct 1998 HG

Hg .076 ppb 4517

*** Sample ID: 92048 Seq: 16 18:37:49 27 Oct 1998 HG

Hg .080 ppb 4699

*** Sample ID: 92049 Seq: 17 18:40:42 27 Oct 1998 HG

Hg .085 ppb 4982

*** Check Standard: 2 Ck2 ACCV Seq: 18 18:43:37 27 Oct 1998 HG
Line Flag Intensities
Hg 263368

*** Check Standard: 1 Ck1 CCB Seq: 19 18:46:33 27 Oct 1998 HG
Line Flag Intensities
Hg 2508

*** Sample ID: 92050 Seq: 20 18:49:26 27 Oct 1998 HG

Hg .088 ppb 5102

*** Sample ID: 92051 Seq: 21 18:52:18 27 Oct 1998 HG

Hg .086 ppb 5010

306310

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 92093 Seq: 22 18:55:11 27 Oct 1998 HG

Hg .083 ppb 4879

*** Sample ID: 92152 Seq: 23 18:58:04 27 Oct 1998 HG

Hg .084 ppb 4938

*** Sample ID: 91619 Seq: 24 19:00:57 27 Oct 1998 HG

Hg .117 ppb 6660

*** Sample ID: 91620 Seq: 25 19:03:50 27 Oct 1998 HG

Hg .087 ppb 5081

*** Sample ID: 91621 Seq: 26 19:06:43 27 Oct 1998 HG

Hg .081 ppb 4754

*** Sample ID: 91622 Seq: 27 19:09:36 27 Oct 1998 HG

Hg .084 ppb 4887

*** Sample ID: 91623 Seq: 28 19:12:29 27 Oct 1998 HG

Hg .138 ppb 7748

*** Sample ID: 91624 Seq: 29 19:15:22 27 Oct 1998 HG

Hg .081 ppb 4730

*** Check Standard: 2 Ck2 ACCV Seq: 30 19:18:16 27 Oct 1998 HG
Line Flag Intensities
Hg 261748

*** Check Standard: 1 Ck1 CCB Seq: 31 19:21:11 27 Oct 1998 HG
Line Flag Intensities
Hg 2421

*** Sample ID: 91625 Seq: 32 19:24:05 27 Oct 1998 HG

Hg .088 ppb 5125

*** Sample ID: 91626 Seq: 33 19:26:58 27 Oct 1998 HG

Hg .091 ppb 5283

306311

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 91659 Seq: 34 19:29:51 27 Oct 1998 HG

Hg .088 ppb 5126

*** Sample ID: 91664 Seq: 35 19:32:46 27 Oct 1998 HG

Hg .083 ppb 4841

*** Sample ID: TCTB102798 Seq: 36 19:35:40 27 Oct 1998 HG
-1
Hg .074 ppb 4399

*** Sample ID: TCTB102798 Seq: 37 19:38:35 27 Oct 1998 HG
-2
Hg .078 ppb 4604

*** Check Standard: 2 Ck2 ACCV Seq: 38 19:41:30 27 Oct 1998 HG
Line Flag Intensities
Hg 262543

*** Check Standard: 1 Ck1 CCB Seq: 39 19:44:25 27 Oct 1998 HG
Line Flag Intensities
Hg 2576

*** Sample ID: PBW102798 /7097 Seq: 40 19:47:19 27 Oct 1998 HG

Hg .109 ppb 6231

*** Sample ID: BSW102798 Seq: 41 19:50:13 27 Oct 1998 HG

Hg 1.06 ppb 55655

*** Sample ID: LCSW Seq: 42 19:53:07 27 Oct 1998 HG

Hg 5.29 ppb 276310

*** Sample ID: 90328 Seq: 43 19:56:02 27 Oct 1998 HG

Hg .081 ppb 4774

*** Sample ID: 90328D Seq: 44 19:58:57 27 Oct 1998 HG

Hg .092 ppb 5330

*** Sample ID: 90328MS Seq: 45 20:01:52 27 Oct 1998 HG

Hg 1.06 ppb 55849

306312

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 90328MSD Seq: 46 20:04:47 27 Oct 1998 HG

Hg 1.11 ppb 58544

*** Sample ID: 90329 Seq: 47 20:07:42 27 Oct 1998 HG

Hg .092 ppb 5333

*** Sample ID: 90330 Seq: 48 20:10:37 27 Oct 1998 HG

Hg .090 ppb 5241

*** Check Standard: 2 Ck2 ACCV Seq: 49 20:13:32 27 Oct 1998 HG
Line Flag Intensities
Hg 258922

*** Check Standard: 1 Ck1 CCB Seq: 50 20:16:28 27 Oct 1998 HG
Line Flag Intensities
Hg 2816

*** Sample ID: PBW102798/7096 Seq: 51 20:19:24 27 Oct 1998 HG

Hg .052 ppb 3223

*** Sample ID: BSW102798 Seq: 52 20:22:21 27 Oct 1998 HG

Hg 1.04 ppb 54725

*** Sample ID: LCSW Seq: 53 20:25:18 27 Oct 1998 HG

Hg 5.01 ppb 261752

*** Sample ID: 91152 Seq: 54 20:28:15 27 Oct 1998 HG

Hg .045 ppb 2875

*** Sample ID: 91152D Seq: 55 20:31:12 27 Oct 1998 HG

Hg .074 ppb 4400

*** Sample ID: 91152MS Seq: 56 20:34:09 27 Oct 1998 HG

Hg 1.06 ppb 55667

*** Sample ID: 91152MSD Seq: 57 20:37:06 27 Oct 1998 HG

Hg 1.06 ppb 56077

306313

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 91153 Seq: 58 20:40:03 27 Oct 1998 HG

Hg .132 ppb 7433

*** Sample ID: 91154 Seq: 59 20:43:01 27 Oct 1998 HG

Hg .039 ppb 2553

*** Sample ID: 91155 Seq: 60 20:45:59 27 Oct 1998 HG

Hg .063 ppb 3827

*** Check Standard: 2 Ck2 ACCV Seq: 61 20:48:56 27 Oct 1998 HG
Line Flag Intensities
Hg 259630

*** Check Standard: 1 Ck1 CCB Seq: 62 20:51:51 27 Oct 1998 HG
Line Flag Intensities
Hg 2721

*** Sample ID: 91156 Seq: 63 20:54:48 27 Oct 1998 HG

Hg .049 ppb 3072

*** Sample ID: 91157 Seq: 64 20:57:47 27 Oct 1998 HG

Hg .091 ppb 5300

*** Sample ID: 91158 Seq: 65 21:00:46 27 Oct 1998 HG

Hg .112 ppb 6386

*** Sample ID: 91159 Seq: 66 21:03:45 27 Oct 1998 HG

Hg .061 ppb 3702

*** Sample ID: 91160 Seq: 67 21:06:44 27 Oct 1998 HG

Hg .054 ppb 3341

*** Sample ID: 91161 Seq: 68 21:09:43 27 Oct 1998 HG

Hg .083 ppb 4853

*** Sample ID: 91162 Seq: 69 21:12:42 27 Oct 1998 HG

Hg .058 ppb 3561

306314

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 91163 Seq: 70 21:15:41 27 Oct 1998 HG

Hg .067 ppb 4012

*** Sample ID: 91164 Seq: 71 21:18:40 27 Oct 1998 HG

Hg .057 ppb 3523

*** Sample ID: 91165 Seq: 72 21:21:39 27 Oct 1998 HG

Hg .050 ppb 3124

*** Check Standard: 2 Ck2 ACCV Seq: 73 21:24:37 27 Oct 1998 HG
Line Flag Intensities
Hg 255725

*** Check Standard: 1 Ck1 CCB Seq: 74 21:27:33 27 Oct 1998 HG
Line Flag Intensities
Hg 2358

*** Sample ID: 91167 Seq: 75 21:30:32 27 Oct 1998 HG

Hg .093 ppb 5398

*** Sample ID: 90679 Seq: 76 21:33:32 27 Oct 1998 HG

Hg .047 ppb 2974

*** Sample ID: 90680 Seq: 77 21:36:33 27 Oct 1998 HG

Hg .041 ppb 2677

*** Sample ID: 90838 dilute5x Seq: 78 21:39:34 27 Oct 1998 HG

Hg 13.8 ppb 719609

*** Sample ID: 90839 RA Seq: 79 21:42:40 27 Oct 1998 HG

Hg .153 ppb 8519

*** Check Standard: 2 Ck2 ACCV Seq: 80 21:45:39 27 Oct 1998 HG
Line Flag Intensities
Hg 254867

*** Check Standard: 1 Ck1 CCB Seq: 81 21:48:34 27 Oct 1998 HG
Line Flag Intensities
Hg 2513

306315

File : 7096HG2.WSL

File Record	Laboratory Sample Name	Customer/EPA Sample Name	Type	Matrix	Instrument Dil.	Date	Time	Flags
1	STD1		3		1.0	10/28/98	10:09:44	
2	STD2		3		1.0	10/28/98	10:12:43	
3	STD3		3		1.0	10/28/98	10:15:42	
4	STD4		3		1.0	10/28/98	10:18:42	
5	STD5		3		1.0	10/28/98	10:21:41	
6	STD6		3		1.0	10/28/98	10:24:40	
7	AICV/ACCV1		0		1.0	10/28/98	10:27:38	
8	ICB/CCB1		0		1.0	10/28/98	10:30:34	
9	ZBW102798		0		1.0	10/28/98	10:33:28	
10	90838		0		5.0	10/28/98	10:36:22	
11	90839		0		1.0	10/28/98	10:39:15	
12	ACCV2		0		1.0	10/28/98	10:42:09	
13	CCB2		0		1.0	10/28/98	10:45:04	

306316

Michael Polidori 10/29/98

10:45:28 28 Oct 1998 Folder: 7096HG2 Protocol: SW846

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 13 10:09:44 28 Oct 1998 HG

Hg .000 ppb 1995
Ave. Int. = 1995 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 14 10:12:43 28 Oct 1998 HG

Hg .100 ppb 8078
Ave. Int. = 8078 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 15 10:15:42 28 Oct 1998 HG

Hg 1.00 ppb 62665
Ave. Int. = 62665 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 16 10:18:42 28 Oct 1998 HG

Hg 2.00 ppb 123254
Ave. Int. = 123254 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 17 10:21:41 28 Oct 1998 HG

Hg 5.00 ppb 303984
Ave. Int. = 303984 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 18 10:24:40 28 Oct 1998 HG

Hg 10.0 ppb 594162
Ave. Int. = 594162 S. D. = 0

306317

Protocol: SW846

Rev: 3.001 Time: 10:24:46 28 Oct 1998

Folder: 7096HG2 Seq: 19 Print: On

User: Batch: Id: Std6Rep1 Cup: Gas: 0.30 LPM

State: Idle Macro SW846 35: F3 Print Xmit: Off Autosampler: On

CALIBRATION: Line Calibration

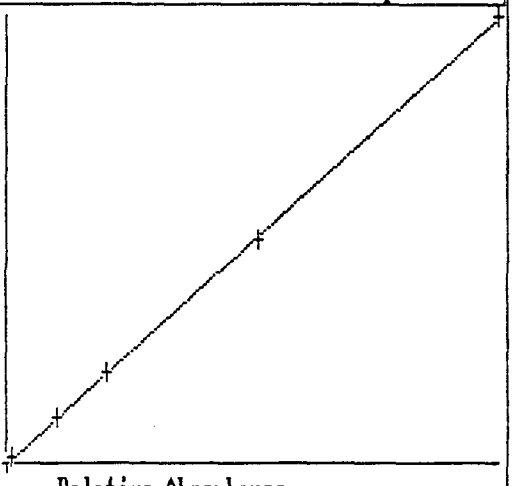
Line: Hg

	Conc.	Calc.	Dev.	Accepted	
				LiNear	
S1	.000	-.025	-.025	Quadratic	
S2	.100	.077	-.023	WtdLinear	
S3	1.00	.998	-.002		C
S4	2.00	2.02	.020	Accept	o
S5	5.00	5.07	.068		n
S6	10.0	9.96	-.038	StdAdd	c

A .0000000 r .999950

B 1.68649e-5 C -5.87517e-2

	Mean	%RSD	
S1	1995	0	1995
S2	8078	0	8078
S3	62665	0	62665
S4	123254	0	123254
S5	303984	0	303984
S6	594162	0	594162



Relative Absorbance

New calibration coefficients stored

306318

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 3 Ck3ICV/CCV Seq: 19 10:27:38 28 Oct 1998 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.2	4.86	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 20 10:30:34 28 Oct 1998 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.027	.100	ppb	.000

*** Sample ID: PBW102798 Seq: 21 10:33:28 28 Oct 1998 HG

Hg	-.019	ppb	.000	-.019

*** Sample ID: 90838-5X Seq: 22 10:36:22 28 Oct 1998 HG

Hg	2.95	ppb	.000	2.95

*** Sample ID: 90839 Seq: 23 10:39:15 28 Oct 1998 HG

Hg	.146	ppb	.000	.146

*** Check Standard: 2 Ck2 ACCV Seq: 24 10:42:09 28 Oct 1998 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.9	4.84	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 25 10:45:04 28 Oct 1998 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.025	.100	ppb	.000

306319

MP
10/29/98

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 13 10:09:44 28 Oct 1998 HG

Hg .000 ppb 1995
Ave. Int. = 1995 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 14 10:12:43 28 Oct 1998 HG

Hg .100 ppb 8078
Ave. Int. = 8078 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 15 10:15:42 28 Oct 1998 HG

Hg 1.00 ppb 62665
Ave. Int. = 62665 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 16 10:18:42 28 Oct 1998 HG

Hg 2.00 ppb 123254
Ave. Int. = 123254 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 17 10:21:41 28 Oct 1998 HG

Hg 5.00 ppb 303984
Ave. Int. = 303984 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 18 10:24:40 28 Oct 1998 HG

Hg 10.0 ppb 594162
Ave. Int. = 594162 S. D. = 0

*** Check Standard: 3 Ck3ICV/CCV Seq: 19 10:27:38 28 Oct 1998 HG
Line Flag Intensities
Hg 291779

*** Check Standard: 1 Ck1 CCB Seq: 20 10:30:34 28 Oct 1998 HG
Line Flag Intensities
Hg 1867

*** Sample ID: PBW102798 Seq: 21 10:33:28 28 Oct 1998 HG

Hg -.019 ppb 2373

*** Sample ID: 90838-5X Seq: 22 10:36:22 28 Oct 1998 HG

Hg 2.95 ppb 178626

306320

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 90839 Seq: 23 10:39:15 28 Oct 1998 HG

Hg .146 ppb 12168

*** Check Standard: 2 Ck2 ACCV Seq: 24 10:42:09 28 Oct 1998 HG
Line Flag Intensities
Hg 290623

*** Check Standard: 1 Ck1 CCB Seq: 25 10:45:04 28 Oct 1998 HG
Line Flag Intensities
Hg 2009

306321

PROJECT TJA TRACE / RUN LOG

Notebook No. 0153

Continued From Page

ELEMENT: Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn, Mo, P, Sn, Sr, Ti, B

BATCH: 7096T1

DATE: 10/27/98

306322

File : 7096T1.WSL

File Record	Laboratory Sample Name	Customer/EPA Sample Name	Type	Matrix	Instrument Dil.	Date	Time	Fl.
1	STD1-BLANK		3		1.0	10/27/98	19:46:00	
2	STD2		3		1.0	10/27/98	19:51:00	
3	STD3		3		1.0	10/27/98	19:56:00	
4	STD4		3		1.0	10/27/98	20:02:00	
5	HSA		0		1.0	10/27/98	20:09:00	
6	ICV/CCV1		0		1.0	10/27/98	20:14:00	
7	ICB/CCB1		0		1.0	10/27/98	20:20:00	
8	ICSA1		0		1.0	10/27/98	20:25:00	
9	ICSAB1		0		1.0	10/27/98	20:30:00	
10	INT-20		0		1.0	10/27/98	20:36:00	
11	MCL		0		1.0	10/27/98	20:41:00	
12	BSW102798		0		1.0	10/27/98	20:46:00	
13	PBW102798		0		1.0	10/27/98	20:52:00	
14	LCSW		0		1.0	10/27/98	20:57:00	
15	91152D		0		1.0	10/27/98	21:02:00	
16	91152		0		1.0	10/27/98	21:08:00	
17	91152L		0		1.0	10/27/98	21:13:00	
18	CCV2		0		1.0	10/27/98	21:18:00	
19	CCB2		0		1.0	10/27/98	21:24:00	
20	91152MS		0		1.0	10/27/98	21:29:00	
21	91152MSD		0		1.0	10/27/98	21:34:00	
22	91152A		0		1.0	10/27/98	21:40:00	
23	92298		0		1.0	10/27/98	21:45:00	
24	91153		0		1.0	10/27/98	21:51:00	
25	91154		0		1.0	10/27/98	21:56:00	
26	91155		0		1.0	10/27/98	22:01:00	
27	91156		0		1.0	10/27/98	22:07:00	
28	91157		0		1.0	10/27/98	22:12:00	
29	91158		0		1.0	10/27/98	22:17:00	
30	CCV3		0		1.0	10/27/98	22:23:00	
31	CCB3		0		1.0	10/27/98	22:28:00	
32	91159		0		1.0	10/27/98	22:33:00	
33	91160		0		1.0	10/27/98	22:39:00	
34	91161		0		1.0	10/27/98	22:44:00	
35	91162		0		1.0	10/27/98	22:49:00	
36	91163		0		1.0	10/27/98	22:55:00	
37	91164		0		1.0	10/27/98	23:00:00	
38	91165		0		1.0	10/27/98	23:06:00	
39	91167		0		1.0	10/27/98	23:11:00	
40	90679		0		1.0	10/27/98	23:16:00	
41	90680		0		1.0	10/27/98	23:22:00	
42	CCV4		0		1.0	10/27/98	23:27:00	
43	CCB4		0		1.0	10/27/98	23:32:00	
44	90838		0		1.0	10/27/98	23:38:00	
45	90839		0		1.0	10/27/98	23:43:00	
46	ICSA2		0		1.0	10/27/98	23:49:00	
47	ICSAB2		0		1.0	10/27/98	23:54:00	
48	CCV5		0		1.0	10/27/98	23:59:00	
49	CCB5		0		1.0	10/28/98	00:05:00	

Continued on Page

Read and Understood By

Signed 10/29/98 Date 10/30/98

ROJECT TJA 61E ICP RUN Log

Continued From Page

Element: Al, Sb, As, Ba, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn, Bo, Mo, Sn

Batch: 7096 E1

RUN Date: 10/28/98

306323

File : 7096E1.WSL

File Record	Laboratory Sample Name	Customer/EPA Sample Name	Type	Matrix	Instrument Dil.	Date	Time	Flags
1	STD1-BLANK		3		1.0	10/28/98	14:09:00	
2	STD2		3		1.0	10/28/98	14:13:00	
3	STD3		3		1.0	10/28/98	14:18:00	
4	STD4		3		1.0	10/28/98	14:22:00	
5	HSA		0		1.0	10/28/98	14:29:00	
6	ICV/CCV1		0		1.0	10/28/98	14:33:00	
7	ICB/CCB1		0		1.0	10/28/98	14:37:00	
8	ICSA1		0		1.0	10/28/98	14:41:00	
9	ICSAB1		0		1.0	10/28/98	14:45:00	
10	MCL		0		1.0	10/28/98	14:49:00	
11	INT-20		0		1.0	10/28/98	14:54:00	
12	BSW10279S		0		1.0	10/28/98	14:58:00	
13	PBW10279S		0		1.0	10/28/98	15:02:00	
14	LCSW10279S		0		1.0	10/28/98	15:06:00	
15	91152D		0		1.0	10/28/98	15:10:00	
16	91152		0		1.0	10/28/98	15:14:00	
17	91152L		0		1.0	10/28/98	15:18:00	
18	CCV2		0		1.0	10/28/98	15:22:00	
19	CCB2		0		1.0	10/28/98	15:27:00	
20	91152MS		0		1.0	10/28/98	15:31:00	
21	91152MSD		0		1.0	10/28/98	15:35:00	
22	91152A		0		1.0	10/28/98	15:39:00	
23	91153		0		1.0	10/28/98	15:43:00	
24	91154		0		1.0	10/28/98	15:47:00	
25	91155		0		1.0	10/28/98	15:51:00	
26	91156		0		1.0	10/28/98	15:55:00	
27	91157		0		1.0	10/28/98	16:00:00	
28	91158		0		1.0	10/28/98	16:04:00	
29	CCV3		0		1.0	10/28/98	16:08:00	
30	CCB3		0		1.0	10/28/98	16:12:00	
31	91159		0		1.0	10/28/98	16:16:00	
32	91160		0		1.0	10/28/98	16:20:00	
33	91161		0		2.0	10/28/98	16:24:00	
34	91162		0		1.0	10/28/98	16:29:00	
35	91163		0		1.0	10/28/98	16:33:00	
36	91164		0		1.0	10/28/98	16:37:00	
37	91165		0		1.0	10/28/98	16:41:00	
38	91167		0		1.0	10/28/98	16:45:00	
39	90679		0		1.0	10/28/98	16:49:00	
40	90680		0		1.0	10/28/98	16:53:00	
41	CCV4		0		1.0	10/28/98	16:57:00	
42	CCB4		0		1.0	10/28/98	17:02:00	
43	90838		0		4.0	10/28/98	17:06:00	
44	90839		0		4.0	10/28/98	17:10:00	
45	ICSA2		0		1.0	10/28/98	17:14:00	
46	ICSAB2		0		1.0	10/28/98	17:18:00	
47	CCV5		0		1.0	10/28/98	17:22:00	
48	CCB5		0		1.0	10/28/98	17:26:00	

Continued on Page

Read and Understood By

Kimberley A. Neyfer — Signed — 10/29/98 — Date

Slash — Signed — 10/30/98 — Date

PROJECT TJP TRIP 1 Run Log

Notebook No.

Continued From Page

ELEMENT: Ag, Al, As, Ba, Be, B, Cd, Ca, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn, Mo, P, Sn, Sr, Ti, B

BATCH: 70977T1, 70976T2, 70977T2, 70980T3

DATE: 10/25/98

306324

File : 7097T1.WSL / 70976T2 / 70977T2 / 70980T3

File Record	Laboratory Sample Name	Customer/EPA Sample Name	Type	Matrix	Instrument Dil.	Date	Time	Fl
1	STD1-BLANK		3		1.0	10/29/98	00:45:00	
2	STD2		3		1.0	10/29/98	00:50:00	
3	STD3		3		1.0	10/29/98	00:55:00	
4	STD4		3		1.0	10/29/98	01:01:00	
5	HSA		0		1.0	10/29/98	01:08:00	
6	ICV/CCV1		0		1.0	10/29/98	01:13:00	
7	ICB/CCB1		0		1.0	10/29/98	01:18:00	
8	ICSA1		0		1.0	10/29/98	01:24:00	
9	ICSAB1		0		1.0	10/29/98	01:29:00	
10	INT-20		0		1.0	10/29/98	01:35:00	
11	MCL		0		1.0	10/29/98	01:40:00	
12	BSW102798		0		1.0	10/29/98	01:45:00	
13	PBW102798		0		1.0	10/29/98	01:51:00	
14	LCSW		0		1.0	10/29/98	01:56:00	
15	90328D		0		1.0	10/29/98	02:01:00	
16	90328		0		1.0	10/29/98	02:07:00	
17	90328L		0		1.0	10/29/98	02:12:00	
18	CCV2		0		1.0	10/29/98	02:18:00	
19	CCB2		0		1.0	10/29/98	02:23:00	
20	90328MS		0		1.0	10/29/98	02:28:00	
21	90328MSD		0		1.0	10/29/98	02:34:00	
22	90328A		0		1.0	10/29/98	02:39:00	
23	90329		0		1.0	10/29/98	02:44:00	
24	90330		0		1.0	10/29/98	02:50:00	
25	90838		0		2.0	10/29/98	02:55:00	
26	90101		0		1.0	10/29/98	03:01:00	
27	90101L		0		1.0	10/29/98	03:06:00	
28	CCV3		0		1.0	10/29/98	03:11:00	
29	CCB3		0		1.0	10/29/98	03:17:00	
30	89743		0		5.0	10/29/98	03:22:00	
31	89742		0		5.0	10/29/98	03:27:00	
32	ICSA2		0		1.0	10/29/98	03:33:00	
33	ICSAB2		0		1.0	10/29/98	03:38:00	
34	CCV4		0		1.0	10/29/98	03:44:00	
35	CCB4		0		1.0	10/29/98	03:49:00	

Continued on Page

Read and Understood By

Signed — Date 10/25/98 — Signed — Date 10/30/98

100
PROJECT Hg Run Log

Continued From Page 1

Batch # 7095HG1 / 7097HG1 / 7096HG1
Date: 10/27/98

File : 7095HG1.WSL / 7097HG1.WSL / 7096HG1.WSL

306325

File Record	Laboratory Sample Name	Customer/EPA Sample Name	Type	Matrix	Instrument Dil.	Date	Time	Flags
1	STD1		3		1.0	10/27/98	17:50:17	
2	STD2		3		1.0	10/27/98	17:53:16	
3	STD3		3		1.0	10/27/98	17:56:15	
4	STD4		3		1.0	10/27/98	17:59:14	
5	STD5		3		1.0	10/27/98	18:02:13	
6	STD6		3		1.0	10/27/98	18:05:12	
7	AICV/ACCV1		0		1.0	10/27/98	18:08:09	
8	ICB/CCB1		0		1.0	10/27/98	18:11:05	
9	PBL102798		0		1.0	10/27/98	18:13:59	
10	BSL102798		0		1.0	10/27/98	18:16:52	
11	90292		0		1.0	10/27/98	18:19:45	
12	92092D		0		1.0	10/27/98	18:23:24	
13	92092MS		0		1.0	10/27/98	18:26:17	
14	92092MSD		0		1.0	10/27/98	18:29:10	
15	91415		0		1.0	10/27/98	18:32:03	
16	TCTB102498		0		1.0	10/27/98	18:34:56	
17	92048		0		1.0	10/27/98	18:37:49	
18	92049		0		1.0	10/27/98	18:40:42	
19	ACCV2		0		1.0	10/27/98	18:43:37	
20	CCB2		0		1.0	10/27/98	18:46:33	
21	92050		0		1.0	10/27/98	18:49:26	
22	92051		0		1.0	10/27/98	18:52:18	
23	92093		0		1.0	10/27/98	18:55:11	
24	92152		0		1.0	10/27/98	18:58:04	
25	91619		0		1.0	10/27/98	19:00:57	
26	91620		0		1.0	10/27/98	19:03:50	
27	91621		0		1.0	10/27/98	19:06:43	
28	91622		0		1.0	10/27/98	19:09:36	
29	91623		0		1.0	10/27/98	19:12:29	
30	91624		0		1.0	10/27/98	19:15:22	
31	ACCV3		0		1.0	10/27/98	19:18:16	
32	CCB3		0		1.0	10/27/98	19:21:11	
33	91625		0		1.0	10/27/98	19:24:05	
34	91626		0		1.0	10/27/98	19:26:58	
35	91659		0		1.0	10/27/98	19:29:51	
36	91664		0		1.0	10/27/98	19:32:46	
37	TCTB102798-1		0		1.0	10/27/98	19:35:40	
38	TCTB102798-2		0		1.0	10/27/98	19:38:35	
39	ACCV4		0		1.0	10/27/98	19:41:30	
40	CCB4		0		1.0	10/27/98	19:44:25	
41	PBW102798/7097		0		1.0	10/27/98	19:47:19	
42	BSW102798/7097		0		1.0	10/27/98	19:50:13	
43	LCSW/7097		0		1.0	10/27/98	19:53:07	
44	90328		0		1.0	10/27/98	19:56:02	
45	90328D		0		1.0	10/27/98	19:58:57	
46	90328MS		0		1.0	10/27/98	20:01:52	
47	90328MSD		0		1.0	10/27/98	20:04:47	
48	90329		0		1.0	10/27/98	20:07:42	
49	90330		0		1.0	10/27/98	20:10:37	
50	ACCV5		0		1.0	10/27/98	20:13:32	
51	CCB5		0		1.0	10/27/98	20:16:28	
52	PBW102798/7096		0		1.0	10/27/98	20:19:24	
53	BSW102798/7096		0		1.0	10/27/98	20:22:21	
54	LCSW/7096		0		1.0	10/27/98	20:25:18	
55	91152		0		1.0	10/27/98	20:28:15	

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Read and Understood By

Michael Polidori — Signed — 10/30/98 — Date

[illegible] — Signed — 10/30/98 — Date

PROJECT Hg Run Log

Notebook No. 01166

Continued From Page 100 Notebook 01 1/2

Date: 10/27/98
Batch # 7095Hw1/7097Hw1/7096Hw1

56	91152D	0	1.0	10/27/98	20:31:12
57	91152MS	0	1.0	10/27/98	20:34:09
58	91152MSD	0	1.0	10/27/98	20:37:06
59	91153	0	1.0	10/27/98	20:40:03
60	91154	0	1.0	10/27/98	20:43:01
61	91155	0	1.0	10/27/98	20:45:59
62	ACCV6	0	1.0	10/27/98	20:48:56
63	CCB6	0	1.0	10/27/98	20:51:51
64	91156	0	1.0	10/27/98	20:54:48
65	91157	0	1.0	10/27/98	20:57:47
66	91158	0	1.0	10/27/98	21:00:46
67	91159	0	1.0	10/27/98	21:03:45
68	91160	0	1.0	10/27/98	21:06:44
69	91161	0	1.0	10/27/98	21:09:43
70	91162	0	1.0	10/27/98	21:12:42
71	91163	0	1.0	10/27/98	21:15:41
72	91164	0	1.0	10/27/98	21:18:40
73	91165	0	1.0	10/27/98	21:21:39
74	ACCV7	0	1.0	10/27/98	21:24:37
75	CCB7	0	1.0	10/27/98	21:27:33
76	91167	0	1.0	10/27/98	21:30:32
77	90679	0	1.0	10/27/98	21:33:32
78	90680	0	1.0	10/27/98	21:36:33
79	90838	0	1.0	10/27/98	21:39:34
80	90839	0	1.0	10/27/98	21:42:40
81	ACCV8	0	1.0	10/27/98	21:45:39
82	CCB8	0	1.0	10/27/98	21:48:34

Continued on Page

Read and Understood By 306326

Michael Poindi 10/30/98 [illegible] 10/30/98

Signed

Batch # 7096HG2
Date: 10/28/98

File : 7096HG2.WSL

File Record	Laboratory Sample Name	Customer/EPA Sample Name	Type	Matrix	Instrument Dil.	Date	Time	Flags
1	STD1		3		1.0	10/28/98	10:09:44	
2	STD2		3		1.0	10/28/98	10:12:43	
3	STD3		3		1.0	10/28/98	10:15:42	
4	STD4		3		1.0	10/28/98	10:18:42	
5	STD5		3		1.0	10/28/98	10:21:41	
6	STD6		3		1.0	10/28/98	10:24:40	
7	AICV/ACCV1		0		1.0	10/28/98	10:27:38	
8	ICB/CCB1		0		1.0	10/28/98	10:30:34	
9	ZBW102798		0		1.0	10/28/98	10:33:28	
10	90838		0		5.0	10/28/98	10:36:22	
11	90839		0		1.0	10/28/98	10:39:15	
12	ACCV2		0		1.0	10/28/98	10:42:09	
13	CCB2		0		1.0	10/28/98	10:45:04	

Continued on Page

Read and Understood By 306327

Michael Polidori 10/30/98 [illegible] 10/30/98

Metals Preparation Logbook

Batch: 7096 **Prep Date:** 10/27/98 **Matrix:** Waters

Spike Sources/Lot # Reagent Sources/Lot # Comments:

MS/BS: 2 mls ICPPSPK 10/30/98 HNO_3: 6623 KXGD

HCl: 5587 KXCH

LCS: 1 ml IV-7, IV-19 3/18/98 H_2O_2: NA

LCSW-111 10/26/98

Method (circle one): ICP / 200 / 3010 / 3050 / CLP- / 200DW / Other:

Furnace / 200 / 3020 / 3050 / CLP / 200DW / Other:

	Job	Sample	Init Wgt/ Vol	Final Vol	Comments
1	I343	91152	100ml	100ml	
2		91153			
3		91154			
4		91155			
5		91156			
6		91157			
7		91158			
8		91159			
9		91160			
10		91161			
11		91162			
12		91163			
13		91164			
14		91165			
15		91167			
16	I257	90679			
17		90680			
18	I280	90838			
19		90839			
20	I502	92298			
MS	I343	91152	100ml	100ml	
MSD					
D					
BSW		7096			
PBLKW					
LCSW					

Analyst(s): Suguna Sanagavarapu Reviewed by:

Form ID.METPRLOG1

306328

Mercury Preparation Logbook

Batch: ~~M7096~~ 7096 Prep Date: 10/27/92

Spike Sources/Lot # MS/BS: HGW0102792 LCS: HGW0102792C

Reagent Sources/Lot #: H_2SO_4: 5557 KXDU HNO_3: 6623 KX6D

$KMnO_4$: 062195K K_2SO_4: 145195R

Bath Temp 95°C Start Time: 10:20 End Time: 12:20

Matrix (circle one): / Water / Soil / TCLP / Other: _____

Method (circle one): / 245.1 / 7470 / 7471 / CLP / 200DW Other _____

	Job	Sample	Init Wgt/ Vol	Final Vol	Comments
1	I343	91152	100ml	100ml	
2		91153			
3		91154			
4		91155			
5		91156			
6		91157			
7		91158			
8		91159			
9		91160			
10		91161			
11		91162			
12		91163			
13		91164			
14		91165			
15		91167			
16	I257	90679			
17		90690			
18	I290	90939			
19		90939			
20					
MS	I343	91152	100ml	100ml	
MSD					
D					
BS W		7096			
PBLK					
LCSW					

Analyst(s): Michael Pitidis

Form ID:HGPRLOG1

Reviewed by: [illegible]

306329

Site: Klockner & Klockner

Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Matrix: WATER

Date Analyzed: 10/19/98
QA Batch: 1681

CORROSIVITY (pH)

Envirotech Sample #	Client ID	Analytical Result Units: std unit
90838	DSSR-1	7.63
90839	DSRW-1	10.31

306330

Site: Klockner & Klockner

Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Matrix: WATER

Date Analyzed: 10/19/98
QA Batch: 1376

IGNITABILITY

Envirotech Sample #	Client ID	Flashpoint Units: deg F
90838	DSSR-1	>160
90839	DSRW-1	>160

306331

Site: Klockner & Klockner

Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Matrix: WATER

Date Extracted: 10/19/98
Date Analyzed: 10/19/98
QA Batch: 1364

REACTIVE CYANIDE

Envirotech Sample #	Client ID	Dilution Factor	Analytical Result Units: mg/l
90838	DSSR-1	2.0	ND
90839	DSRW-1	2.0	ND

Quantitation Limit for Reactive Cyanide is 25.0 mg/l

306332

Site: Klockner & Klockner

Lab Job No: I280

Date Sampled: 10/16/98
Date Received: 10/16/98
Matrix: WATER

Date Extracted: 10/19/98
Date Analyzed: 10/19/98
QA Batch: 1364

REACTIVE SULFIDE

Envirotech Sample #	Client ID	Dilution Factor	Analytical Result Units: mg/l
90838	DSSR-1	2.0	ND
90839	DSRW-1	2.0	ND

Quantitation Limit for Reactive Sulfide is 20.0 mg/l

306333

pH

Matrix: WATER

Lab Sample No.: 89662

QA Batch No.: 1681

Lab Job No.: I112

Duplicate			
Sample Conc Units: SU	DUP Conc Units: SU	RPD	Q.C. Limits RPD
7.88	7.88	0.00	1.2

Laboratory Control Sample				
Vendor	Lot #	True Value Units: SU	Acceptable Range: SU	Measured Value: SU
ERA	9979	9.09	8.89-9.29	9.03

306334

QA SUMMARY - DUPLICATES and BLANKS - HAZ. WASTE CHARACTERISTICS

Sample Number: 90838 Job Number: I280

Test	QA Batch No.	Sample Result	Matrix Dup Result	Lab Blank
Ignitability	1376	NF@160	NF@160	NA

306335

REACTIVE CYANIDE

Matrix: WATER

Lab Sample No.: 89662

QA Batch No.: 1364

Lab Job No.: I112

Laboratory Blank	
Blank Conc Units: mg/kg	Quant Limit Units: mg/kg
ND	25.0

Duplicate			
Sample Conc Units: mg/kg	DUP Conc Units: mg/kg	RPD	Q.C. Limits RPD
ND	ND	0.0	20.0

306336

REACTIVE SULFIDE

Matrix: SOLID

Lab Sample No.: 89662

QA Batch No.: 1364

Lab Job No.: I112

Laboratory Blank	
Blank Conc Units: mg/kg	Quant Limit Units: mg/kg
ND	20.0

Duplicate			
Sample Conc Units: mg/kg	DUP Conc Units: mg/kg	RPD	Q.C. Limits RPD
ND	ND	0.0	20.0

306337

BUFFER	BATCH	JB	SAMPLE	MATRIX	PH1	PH2	TEMP°C
7.01			PB		5.31	5.32	22.0°
4.01			LCS 9979		9.05	9.05	22.0°
9.99	1681	I250	90838	H_2O	7.65	7.63	21.3°
	↓	↓	90839	↓	10.28	10.31	21.4°
	1683	I226	90467	SOIL	7.43		21.0°
		↓	90468		7.61		21.3°
		I235	90526 dup		7.20		22.1°
			90526		7.20		22.1°
			90527		7.42		21.1°
		↓	90528	↓	7.34		21.2°
			CCV 7.00		7.01	7.00	22.1°
		I235	90529	SOIL	7.48		21.6°
			90530		7.07		21.3°
			90531		7.16		21.1°
			90532		7.26		21.0°
			90533		7.79		21.1°
			90534		7.08		21.0°
		↓	90535		7.61		20.9°
		I250	90613		6.91		21.0°
	↓	I240	90563	↓	6.92		20.9°
			CCV 7.00		7.00	7.00	22.1°

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PROJECT Ignitability

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Batch	Job	Sample	Matrix	Flashpoint (°F)	Bar Pressure
		P-xylene		81°F	
				81°F	
13765	I226	90467	Solid	NF at 160°F	
		90467 Dup			
		90468			
		90468 Dup			
	I235	90526			
		90526 Dup			
		90527			
		90527 Dup			
		90528			
		90528 Dup			
		90529			
		90529 Dup			
		90530			
		90530 Dup			
		90531			
		90531 Dup			
		90532			
		90532 Dup			
		90533			
		90533 Dup			
		90534			
		90534 Dup			
		90535			
		90535 Dup			
	I250	90613			
		90613 Dup			
1376	I280	90838	H_2O		
		90838 Dup			
		90839			
		90839 Dup			

P-xylene D 29623 Baker

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PROJECT

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Batch	Job	Sample	Matrix	Sample Aliq	Dil	AgNO3	Results
		PB			2X	0.025	ND
1365	I222	90458	Solid	10.0g		0.025	
	I226	90467				0.025	
		90468				0.025	
	I250	90613				0.025	
1366	I235	* 90526				0.025	
		* 90526 Dup				0.025	
		* 90527				0.025	
		90528				0.025	
		90529				0.025	
		90530				0.025	
		90531				0.025	
		* 90532				0.025	
		* 90533				0.025	
		* 90534				0.025	
		* 90535				0.025	
1369	I280	90838	H_2O	10.0ml		0.025	
		90839				0.025	

* Treated With $Bi(NO_3)_2$

Reagents: 0.005 M H_2SO_4 # 2820–2823
0.25 N NaOH #2824
$AgNO_3$ #1504
Rhodanine # 2135

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306340

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Batch	Job	Sample PB	Matrix	Sample #mL	Dil 2X	I_2 (mL) (0.0236N) 5.0	$Na_2S_2O_3$	Result
1365	I222	90458	Solid	10.0g			5.35	ND
	I226	90467					5.4	ND
		90468					5.4	ND
	I250	90613					5.4	ND
1366	I235	90526					5.3	ND
		90526Dup					5.0	30.5
		90527					5.0	30.5
		90528					4.9	38.2
		90529					5.2	ND
		90530					5.2	ND
		90531					5.2	ND
		90532					5.2	ND
		90533					5.1	22.8
		90534					5.1	22.8
		90535					5.0	30.5
1364	I280	90838	H_2O	10.0mL			5.0	30.5
		90839					5.2	ND
							5.2	ND

Reagents: 0.005N H_2SO_4 #2820-2823
0.25N NaOH #2824
HCl #2764
I_2 Lot #169 ICLAG-P (Mallinck.)
$Na_2S_2O_3$ H371 ICXLA (Mallinck.)

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