

ATTACHMENT 3: LABORATORY ANALYTICAL REPORTS (SUMMARY SHEETS)

This attachment contains the summary sheets from the laboratory analytical reports prepared by Pace Analytical Laboratories and Columbia Analytical Services (CAS). Complete analytical reports are available upon request.

PACE ANALYTICAL SERVICES, INC.

SAMPLE DATA PACKAGE

BATTELLE

SDG NO.: JPL98

June 4, 2008

Pace Analytical Services, Inc.
 940 S. Harney
 Seattle, WA 98108

To: Battelle
 Project Name: JPL Groundwater
 SDG No.: JPL98
 Date of Report: June 4, 2008

SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:

Sample Receipt and Identification:

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<u>Client Sample Identification</u>	<u>Pace Sample Identification</u>	<u>Testing Analytical Request</u>
MW-14-5	JPL98-001	VOA/MET/INO
MW-14-4	JPL98-002	VOA/MET/INO
MW-14-3	JPL98-003	VOA/MET/INO
MW-14-2	JPL98-004	VOA/MET/INO
MW-14-1	JPL98-005	VOA/MET/INO
EB-01-04/22/08	JPL98-006	VOA/MET/INO
TB-01-04/22/08	JPL98-007	VOA

Analytical Request Key:

VOA = Volatiles (524.2)
 MET = Metals (200.7/200.8)
 INO = Chloride, Nitrate, Nitrite, Sulfate, Orthophosphate (300.0)
 Alkalinity (310.1)
 Perchlorate (314.0)
 Total Dissolved Solids (160.1)
 pH (150.1)

Summary of NELAC test accreditation

Determination	NELAC approved
TurMet for 200.7/200.8 TurMet	NO
150.1 pH	YES
160.1 Total Dissolved Solids	YES
200.7 K, Na, Mg, Ca, Fe	YES
200.8 As, Cr, Pb	YES
300.0 NO ₃ , NO ₂ , Cl, SO ₄ , OPO ₄	YES
310.1M Carb./Bicarb. Alkalinity	YES
314.0 Perchlorate	YES
524.2 Volatile Organics + TICs (JPL Special list)	YES

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Sample Receipt Comments:

The following discrepancies were noted in association with the receipt of these samples.

One of three volatiles bottles submitted for MW-14-4 contained an air bubble greater than 1/4 inch in size.

Two of two volatiles bottles submitted for TB-01-04/22/08 contained air bubbles less than 1/4 inch in size.

GENERAL REMARKS ON ORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

Manual Integrations:

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

Holding Time Compliance:

Volatile Organic Compounds:

The holding time is 14 days calculated from the date of collection in both soil and water samples. All samples were analyzed within holding times.

Volatiles Fraction:

Quality Control Analyses:

MS/MSD analyses performed on sample MW-14-2 yielded high recoveries for cis-1,3-dichloropropene. Because all other analyte recoveries were in control and the associated blank spike was in control, no action was taken.

All other quality control parameters were met.

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GENERAL REMARKS ON INORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

ICP Metals:

The preparation blank for metals in soil is calculated to mg/kg by assuming a sample weight of 1.00g/100mL. Total solids of 100% are also assumed.

On the first timed and dated page of each ICP-MS run, the data to be reported or rejected will be tabulated for that run.

SPECIFIC REMARKS ON INORGANIC ANALYSES:

Holding Time Compliance:

Pace calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None
Chloride	28 days	None
Sulfate	28 days	None
Nitrate	48 hours	None
Nitrite	48 hours	None
Ortho phosphorus	48 hours	None
Alkalinity	14 days	None
Total Dissolved Solids	7 days	None
pH	24 hours	None

ICP Metals:

No comments.

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ICP-MS Metals:

For the run sequence R027854, the germanium, scandium and terbium internal standards had recoveries that drifted above the recommended control limit of 125% of the initial calibration standard. This is due to instrument drift which is shown in both the samples and the CCVs. Since the CCV recoveries were within control limits, even with the internal standard drifting beyond 125% of the initial calibration standard, it is assumed that the internal standard is making appropriate corrections to the results. Samples were reported only if the internal standard recovery was within 60-125% of the internal standard intensity of the previous CCV. Therefore, no corrective action was taken. Data have been reported as is and have not been flagged for this event.

Miscellaneous Inorganics:

In the run sequence R027530 for "300.0 Anions", the matrix spike and matrix spike duplicate exceeded the established lower control limit for orthophosphate. Since all of the other quality control samples were in control, no further action was taken.

In the run sequence R027833 for "314.0 Perchlorate", the continuing calibration verification standard 3 exceeded the established upper control limit. The samples being reported within this bracketing continuing calibration verification standard were below the reporting limits. Any samples that were detected above the reporting limit were re-analyzed.

In the run sequence R027833 for "314.0 Perchlorate", the matrix spike and matrix spike duplicate exceeded the established upper control limit. Since all of the other quality control samples were in control, no further action was taken.

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ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
 - J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
 - T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
 - E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
 - P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
 - C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
 - ~ This result has been identified as non-primary based on the analyst's professional judgment.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

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INORGANIC ANALYSES:

- J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.
- E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.
- N Spiked sample recovery not within control limits.
- * Duplicate analysis not within control limits.
- Z Denotes data deemed unusable by the analyst.

CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.


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RELEASE OF DATA

Pace Analytical Services, Inc. certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,


for

Kara Godineaux
Project Manager

6/5/08
(DATE)



Harry Romberg
Quality Assurance Officer

6/5/08
(DATE)

HOW TO CONTACT US:

All Pace Analytical Services, Inc. staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

REQUESTS FOR DUPLICATE COPIES:

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Pace will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

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ATTACHMENT A

Chain-of-Custody Copies

PACE ANALYTICAL SERVICES, INC. - SAMPLE CONFIRMATION LOG

Sample ID (SDG-#)	VTSR	Collected On	Client ID	150.1 PH	150.1 Total Dissolved Solids	200.7 K, Na, Mg, Ca, Fe	200.8 As, Cr, Pb	300.0 NO3, NO2, Cl, SO4, OPO4	310.1M Carb./Bicarb. Alkalinity	314.0 Perchlorate	524.2 Volatile Organics + TICs (JPL Special list)
WD JPL98-001	04/23/2008 08:30 AM	04/22/2008 08:41 AM	MW-14-5	IN	IN	IN	IN	IN	IN	IN	IN
WD JPL98-002	04/23/2008 08:30 AM	04/22/2008 09:25 AM	MW-14-4	IN	IN	IN	IN	IN	IN	IN	IN
WD JPL98-003	04/23/2008 08:30 AM	04/22/2008 10:08 AM	MW-14-3	IN	IN	IN	IN	IN	IN	IN	IN
WD JPL98-004	04/23/2008 08:30 AM	04/22/2008 10:52 AM	MW-14-2	IN	IN	IN	IN	IN	IN	IN	IN
WD JPL98-005	04/23/2008 08:30 AM	04/22/2008 12:16 AM	MW-14-1	IN	IN	IN	IN	IN	IN	IN	IN
WD JPL98-006	04/23/2008 08:30 AM	04/22/2008 11:20 AM	EB-01- TB-01-	IN	IN	IN	IN	IN	IN	IN	IN
WD JPL98-007	04/23/2008 08:30 AM	04/22/2008 12:00 AM	TB-01- 04/22/08								IN

Approved By: _____ On: _____
Notes: _____

LEGEND: -:Started , +:Completed , IN:Logged In , P:Preparation , A:Analysis , X:Cancelled, PL:Pre-logged

Matrixes: Water=WD
FORM LTL-PM-8.0

Supplemental Sample Receipt Log
Pace Analytical Services, Inc.

SDG: JPL98
Cooler: AAD787
Temperatures: 3.8
COC #: 46065

Sample	Bottle #	Bottle Description	pH	Bubbles
JPL98-001	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL98-002	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	> 1/4
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL98-003	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL98-004	0001	1000 mL cylinder, poly	7	N/A
	0002	1000 mL cylinder, poly	7	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	40 ml OTWS, clear glass, HCl	N/C	None
	0007	40 ml OTWS, clear glass, HCl	N/C	None
	0008	40 ml OTWS, clear glass, HCl	N/C	None
	0009	500 ml cylinder, poly, HNO3	<2	N/A
	0010	500 ml cylinder, poly, HNO3	<2	N/A
JPL98-005	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL98-006	0001	1000 mL cylinder, poly	7	N/A

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2
Base Preserved pH pH must be greater than 12
NC Not Checked for pH

Supplemental Sample Receipt Log
Pace Analytical Services, Inc.

SDG: JPL98
 Cooler: AAD787
 Temperatures: 3.8
 COC #: 46065

Sample	Bottle #	Bottle Description	pH	Bubbles
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL98-007	0002	40 ml OTWS, clear glass, HCl	N/C	< 1/4
	0003	40 ml OTWS, clear glass, HCl	N/C	< 1/4

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2
 Base Preserved pH pH must be greater than 12
 NC Not Checked for pH

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ATTACHMENT B

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Battelle

SDG No.: JPL98

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Completed and checked by: Judy Ecklund Date: 6/5/08

SAMPLE DATA

SDG # JPL98

Volatiles Analysis

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-5

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-001
 Lab File ID: Y0425016.D
 Date Collected: 04/22/2008
 Date/Time Analyzed: 04/25/2008 13:20
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-5

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-001
 Lab File ID: Y0425016.D
 Date Collected: 04/22/2008
 Date/Time Analyzed: 04/25/2008 13:20
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-5

Lab Name: Pace Analytical Services

SDG No.: JPL98

Matrix: (SOIL/SED/WATER) Water

Sample wt/vol: 5.00 (g/mL) mL

Level: (LOW/MED) _____

% Moisture: not dec. _____

GC Column: DB-624 20m ID: 0.18 (mm)

Soil Extract Volume: _____(uL)

Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin

Run Sequence: R027585

Lab Sample ID: JPL98-001

Lab File ID: Y0425016.D

Date Collected: 04/22/2008

Date/Time Analyzed: 04/25/2008 13:20

Dilution Factor: 1.0

Soil Aliquot Volume: _____(uL)

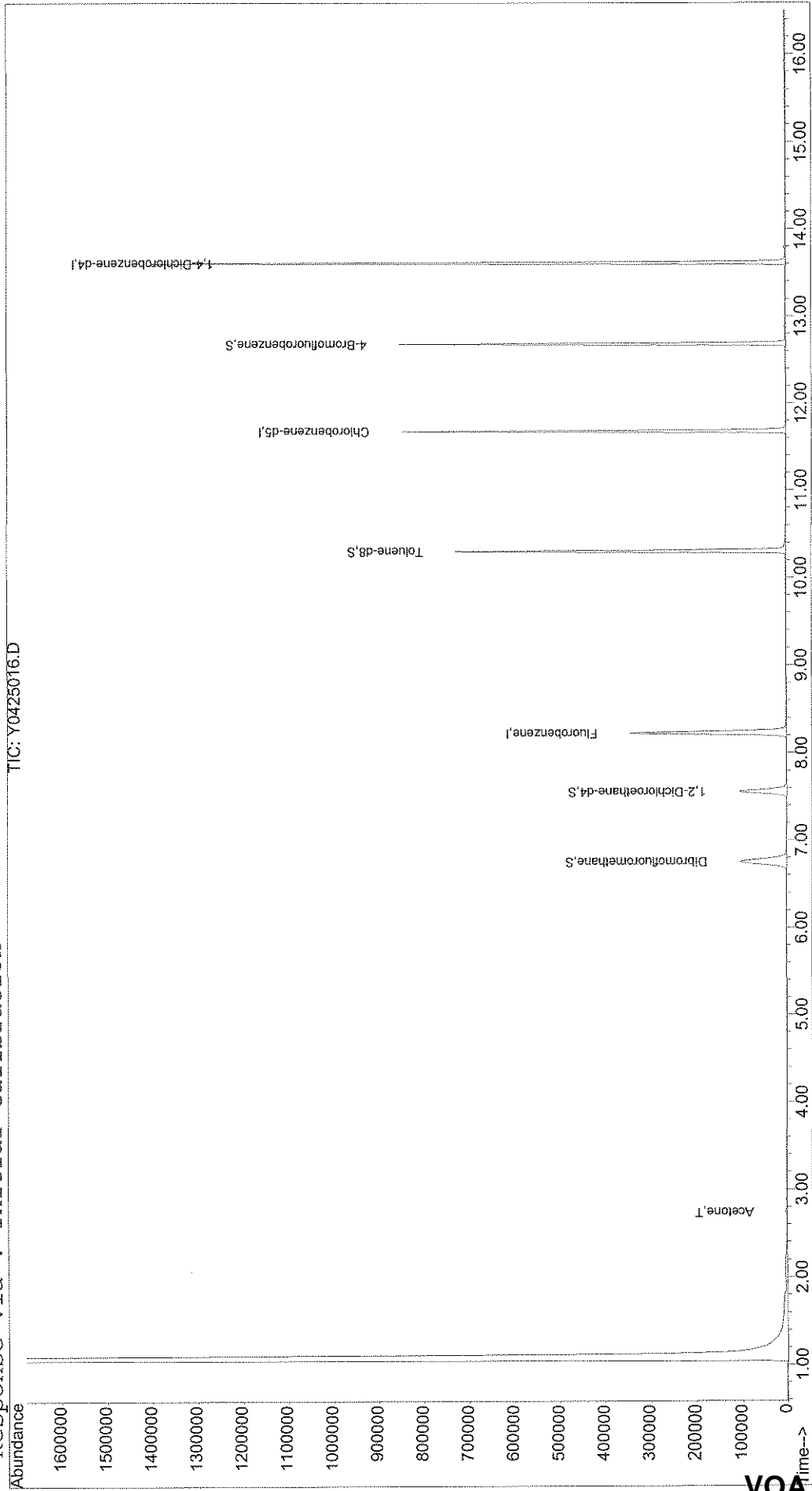
CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425016.D
Acq On : 25 Apr 2008 13:20 Vial: 11
Sample : JPL98-001 Operator: LPM
Misc : #4 5mL+IS/SS(MV8-45-10) (524) Inst : Yoda
MS Integration Params: rteint.p Multiplr: 1.00
Quant Time: Apr 28 7:12 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425016.D
 Acq On : 25 Apr 2008 13:20
 Sample : JPL98-001
 Misc : #4 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 7:12 2008

Vial: 11
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	405019	50.00	ug/l	0.00 79.32%
54) Chlorobenzene-d5	11.68	82	213463	50.00	ug/l	0.00 87.27%
74) 1,4-Dichlorobenzene-d4	13.61	152	310614	50.00	ug/l	0.00 88.63%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	138635	52.33	ug/l	0.00
Spiked Amount	50.000	Range 85 - 115	Recovery	=	104.66%	
40) 1,2-Dichloroethane-d4	7.56	65	125737	49.69	ug/l	0.00
Spiked Amount	50.000	Range 70 - 120	Recovery	=	99.38%	
55) Toluene-d8	10.30	98	437670	47.35	ug/l	0.00
Spiked Amount	50.000	Range 85 - 120	Recovery	=	94.70%	
76) 4-Bromofluorobenzene	12.68	95	199135	49.32	ug/l	0.00
Spiked Amount	50.000	Range 75 - 120	Recovery	=	98.64%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	0.00	50	0	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.74	43	4071	4.23	ug/l	99
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	1597	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

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

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425016.D
 Acq On : 25 Apr 2008 13:20
 Sample : JPL98-001
 Misc : #4 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 7:12 2008

Vial: 11
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	5.50	96	72		N.D.	
30) 2-Butanone	5.68	43	62		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.31	83	58		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.66	78	71		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	9.49	41	74		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	10.24	43	229		N.D.	
56) Toluene	10.39	92	54		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	10.69	69	54		N.D.	
59) 1,1,2-Trichloroethane	10.60	97	77		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.08	43	100		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	56		N.D.	
66) 1-Chlorohexane	11.72	91	67		N.D.	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0425016.D Y8260W.M Mon Apr 28 07:12:18 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425016.D
 Acq On : 25 Apr 2008 13:20
 Sample : JPL98-001
 Misc : #4 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 7:12 2008

Vial: 11
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

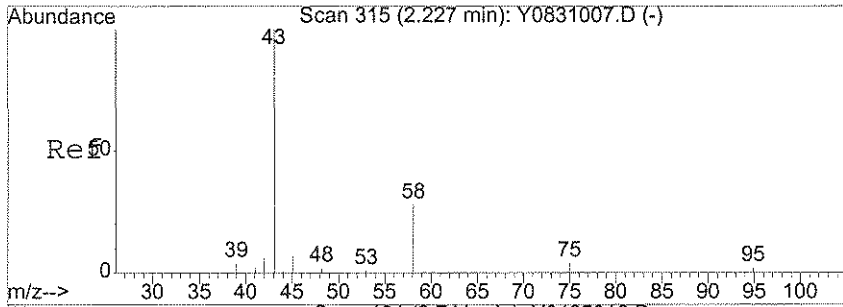
Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	147		N.D.	
69) m,p-Xylene	11.91	106	60		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.68	105	127		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.69	156	132		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.90	83	74		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	13.04	120	57		N.D.	
81) 2-Chlorotoluene	12.89	91	197		N.D.	
82) 4-Chlorotoluene	13.05	91	147		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.62	146	67		N.D.	
88) 4-Isopropyltoluene	13.59	119	264		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	114		N.D.	
90) 1,2-Dichlorobenzene	13.63	146	114		N.D.	
91) n-Butylbenzene	13.91	91	274		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.70	75	62		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	126		N.D.	
94) Hexachlorobutadiene	15.31	225	149		N.D.	
95) Naphthalene	15.36	128	58		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	192		N.D.	

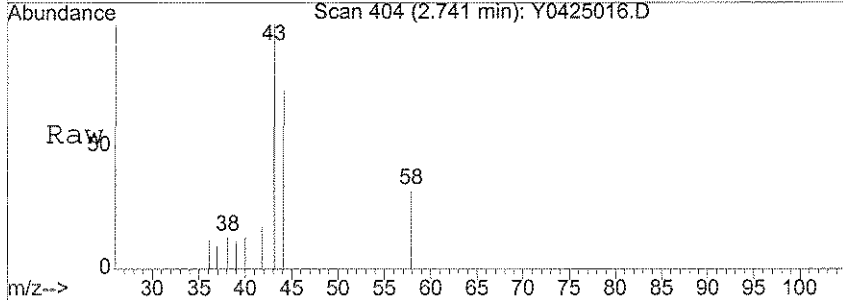
4/28/08 LPM

(#) = qualifier out of range (m) = manual integration
 Y0425016.D Y8260W.M Mon Apr 28 07:12:18 2008

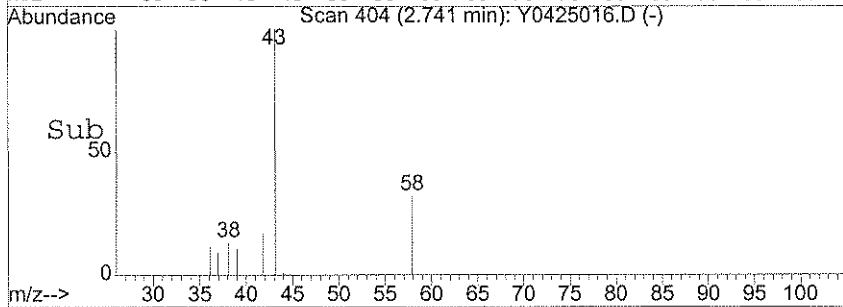
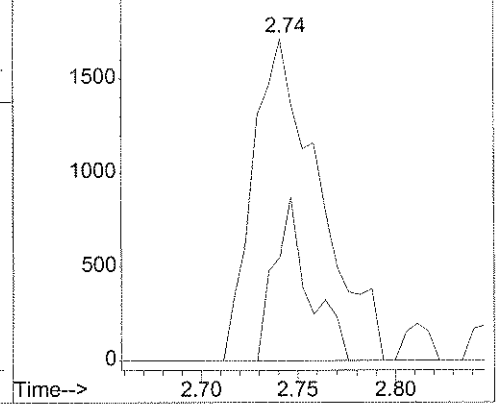


#11
 Acetone
 Concen: 4.23 ug/l
 RT: 2.74 min Scan# 404
 Delta R.T. 0.01 min
 Lab File: Y0425016.D
 Acq: 25 Apr 2008 13:20

Tgt Ion	Resp	Lower	Upper
43	4071		
43	100		
58	26.9	21.3	31.9



Abundance Ion 43.15 (42.85 to 43.85): Y0425016.D
 2000 Ion 58.05 (57.75 to 58.75): Y0425016.D



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-4

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-002
 Lab File ID: Y0425017.D
 Date Collected: 04/22/2008
 Date/Time Analyzed: 04/25/2008 13:45
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-4

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-002
 Lab File ID: Y0425017.D
 Date Collected: 04/22/2008
 Date/Time Analyzed: 04/25/2008 13:45
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-4

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-002
 Lab File ID: Y0425017.D
 Date Collected: 04/22/2008
 Date/Time Analyzed: 04/25/2008 13:45
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

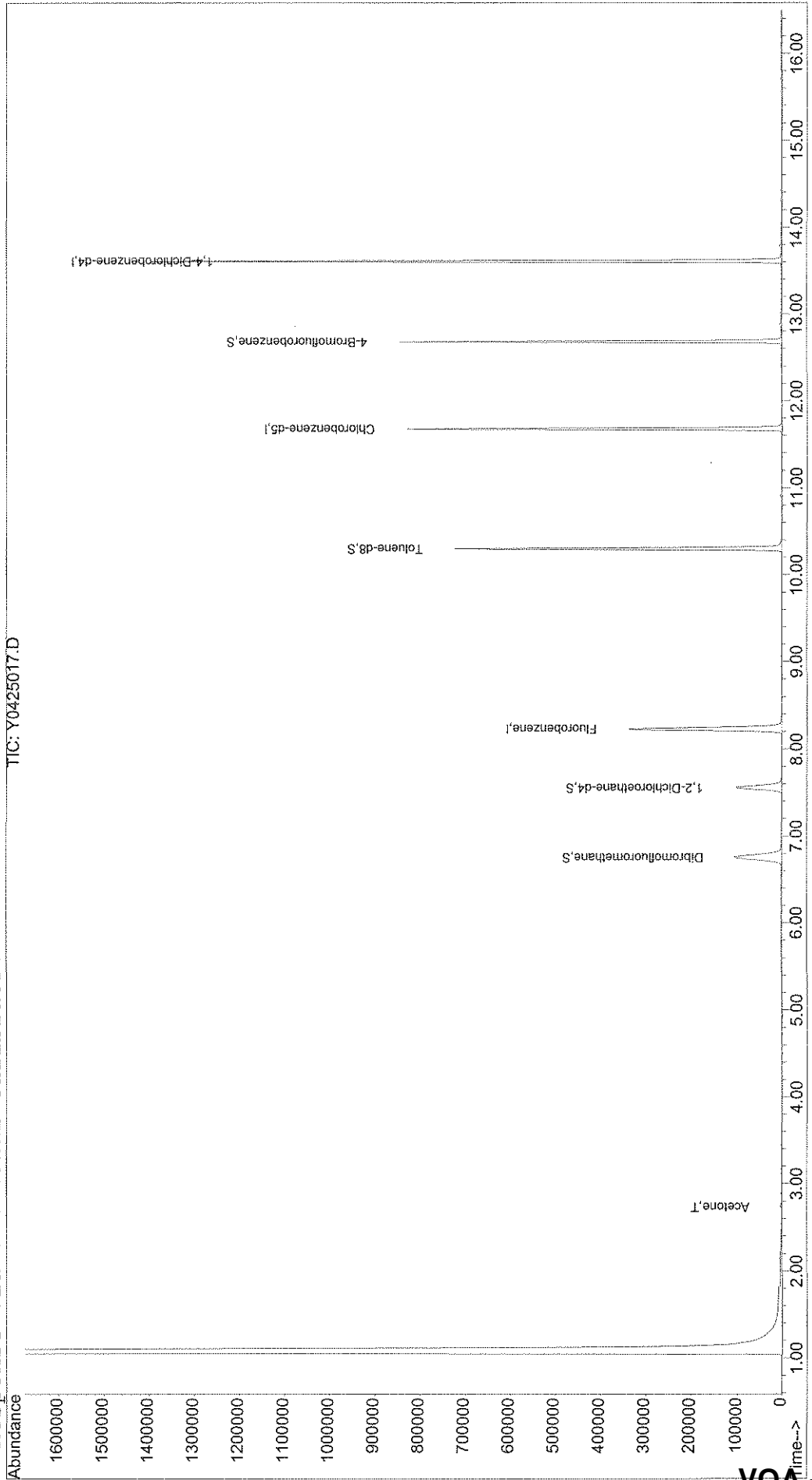
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425017.D Vial: 12
Acq On : 25 Apr 2008 13:45 Operator: LPM
Sample : JPL98-002 Inst : Yoda
Misc : #2 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 7:58 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425017.D
 Acq On : 25 Apr 2008 13:45
 Sample : JPL98-002
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 7:58 2008

Vial: 12
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	403391	50.00	ug/l	0.00	79.00%
54) Chlorobenzene-d5	11.68	82	206243	50.00	ug/l	0.00	84.32%
74) 1,4-Dichlorobenzene-d4	13.61	152	307478	50.00	ug/l	0.00	87.74%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	137230	52.01	ug/l	-0.01	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	104.02%	
40) 1,2-Dichloroethane-d4	7.56	65	125581	49.83	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.66%	
55) Toluene-d8	10.30	98	428576	47.99	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	95.98%	
76) 4-Bromofluorobenzene	12.68	95	197623	49.44	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	98.88%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	0.00	50	0	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	2.62	96	58	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.73	43	3231	3.37	ug/l	97
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.88	76	558	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

4/28/08 LPM

(#) = qualifier out of range (m) = manual integration
 Y0425017.D Y8260W.M Mon Apr 28 07:58:27 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425017.D
 Acq On : 25 Apr 2008 13:45
 Sample : JPL98-002
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 7:58 2008

Vial: 12
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	4.34	63	55		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	0.00	43	0		N.D.	d
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.33	83	116		N.D.	
35) 1,1,1-Trichloroethane	6.68	97	59		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.65	78	78		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	8.82	130	121		N.D.	
46) Methylcyclohexane	9.06	83	57		N.D.	
47) 1,2-Dichloropropane	9.24	63	53		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.37	92	57		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0		N.D.	
60) Tetrachloroethene	10.91	166	331		N.D.	
61) 1,3-Dichloropropene	0.00	76	0		N.D.	
62) 2-Hexanone	11.15	43	56		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.71	112	55		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

4/28/08 LPM

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

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425017.D
 Acq On : 25 Apr 2008 13:45
 Sample : JPL98-002
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 7:58 2008

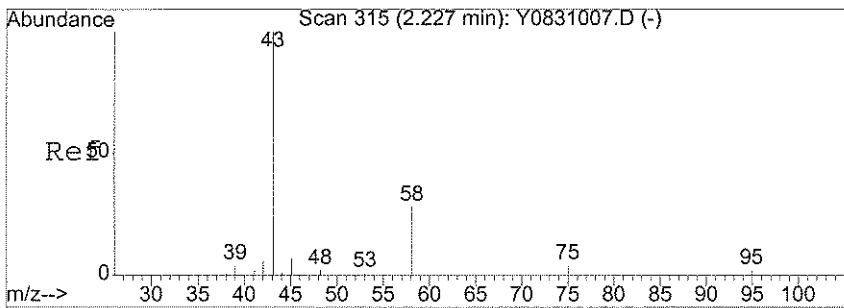
Vial: 12
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

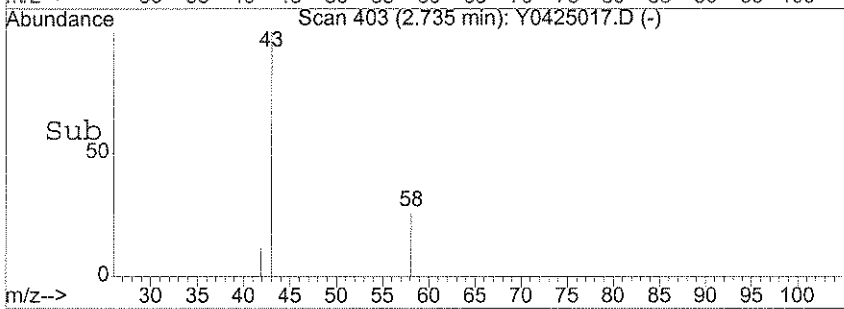
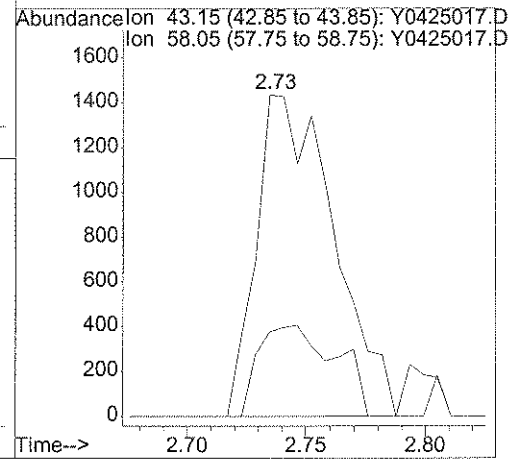
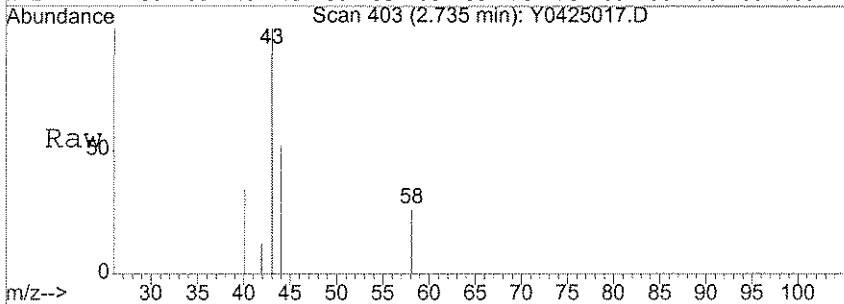
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.82	91	63		N.D.	
69) m,p-Xylene	11.90	106	65		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	12.27	104	56		N.D.	
72) Bromoform	0.00	173	0		N.D.	d
73) Isopropylbenzene	12.68	105	292		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	136		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.96	91	67		N.D.	
82) 4-Chlorotoluene	12.96	91	67		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	461		N.D.	
88) 4-Isopropyltoluene	13.60	119	592		N.D.	
89) 1,4-Dichlorobenzene	13.56	146	461		N.D.	
90) 1,2-Dichlorobenzene	13.92	146	623		N.D.	
91) n-Butylbenzene	13.91	91	357		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	423		N.D.	
94) Hexachlorobutadiene	15.30	225	71		N.D.	
95) Naphthalene	15.36	128	71		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	525		N.D.	

upstos cr



#11
 Acetone
 Concen: 3.37 ug/l
 RT: 2.73 min Scan# 403
 Delta R.T. 0.00 min
 Lab File: Y0425017.D
 Acq: 25 Apr 2008 13:45

Tgt Ion	Ratio	Lower	Upper
43	100		
58	28.1	21.3	31.9



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-3

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-003
 Lab File ID: Y0425018.D
 Date Collected: 04/22/2008
 Date/Time Analyzed: 04/25/2008 14:09
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.29	J
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.42	J
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	1.1	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-3

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-003
 Lab File ID: Y0425018.D
 Date Collected: 04/22/2008
 Date/Time Analyzed: 04/25/2008 14:09
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.43	J
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-3

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-003
 Lab File ID: Y0425018.D
 Date Collected: 04/22/2008
 Date/Time Analyzed: 04/25/2008 14:09
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

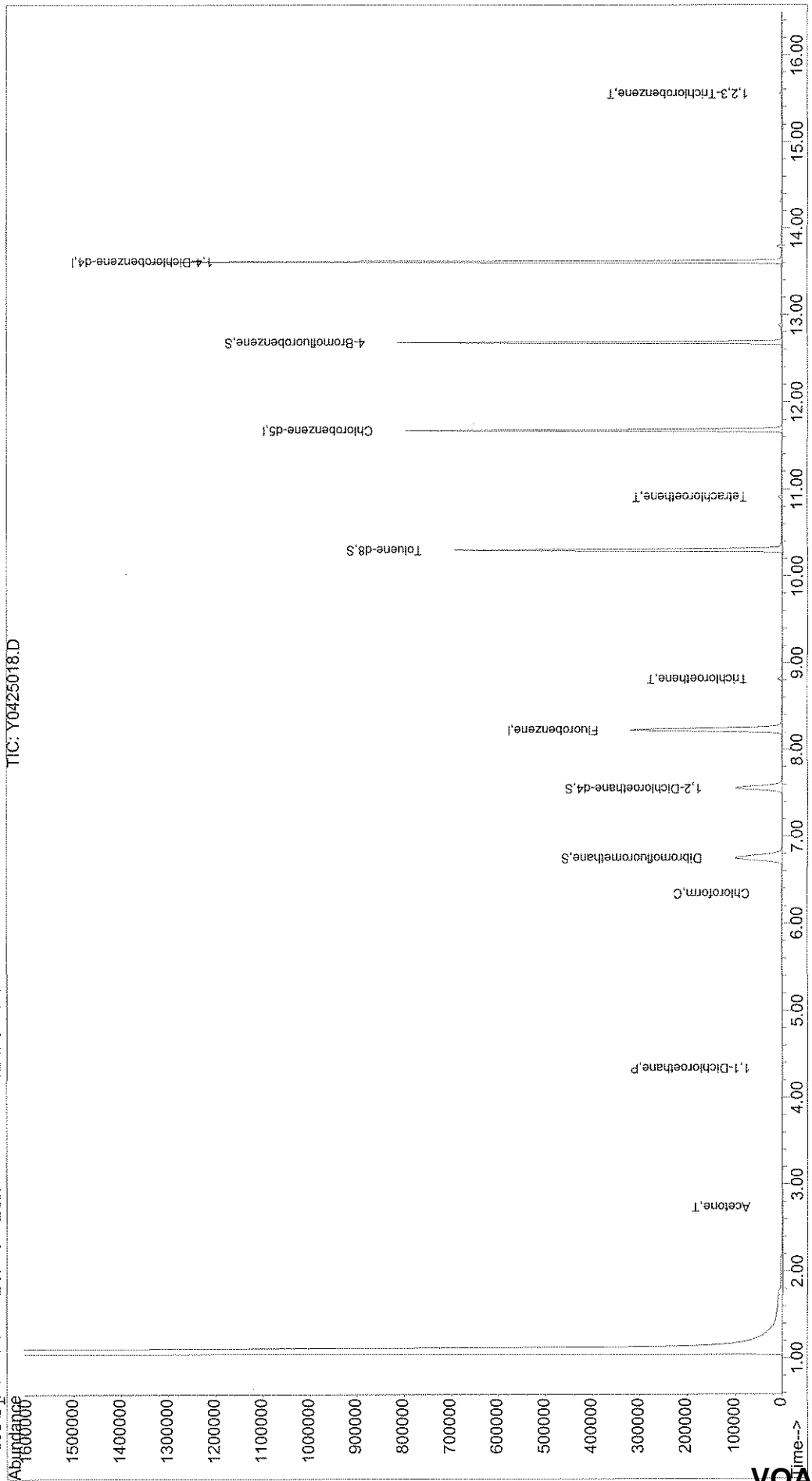
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425018.D
Acq On : 25 Apr 2008 14:09 Vial: 13
Sample : JPL98-003 Operator: LPM
Misc : #2 5mL+IS/SS(MV8-45-10) (524) Inst : Yoda
MS Integration Params: rteint.p Multiplr: 1.00
Quant Time: Apr 28 7:59 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425018.D
 Acq On : 25 Apr 2008 14:09
 Sample : JPL98-003
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 7:59 2008

Vial: 13
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	387613	50.00	ug/l	0.00 75.91%
54) Chlorobenzene-d5	11.68	82	202184	50.00	ug/l	0.00 82.66%
74) 1,4-Dichlorobenzene-d4	13.61	152	296304	50.00	ug/l	0.00 84.55%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	132563	52.28	ug/l	-0.01
Spiked Amount	50.000	Range	85 - 115	Recovery	=	104.56%
40) 1,2-Dichloroethane-d4	7.56	65	121396	50.13	ug/l	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.26%
55) Toluene-d8	10.30	98	417942	47.74	ug/l	0.00
Spiked Amount	50.000	Range	85 - 120	Recovery	=	95.48%
76) 4-Bromofluorobenzene	12.68	95	188516	48.94	ug/l	0.00
Spiked Amount	50.000	Range	75 - 120	Recovery	=	97.88%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	0.00	50	0	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	2.66	96	59	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.74	43	2310	2.51	ug/l #	70
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	86	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	3.69	96	88	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

[Handwritten signature]

(#) = qualifier out of range (m) = manual integration
 Y0425018.D Y8260W.M Mon Apr 28 07:59:54 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425018.D
 Acq On : 25 Apr 2008 14:09
 Sample : JPL98-003
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 7:59 2008

Vial: 13
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
23) 1,1-Dichloroethane	4.33	63	1736	0.29 ug/l	78
24) Vinyl acetate	0.00	43	0	N.D.	
25) Chloroprene	0.00	53	0	N.D.	
26) Isopropyl ether	0.00	45	0	N.D.	
27) Ethyl-t-butyl ether	0.00	59	0	N.D.	
28) 2,2-Dichloropropane	0.00	77	0	N.D.	
29) cis-1,2-Dichloroethene	5.50	96	382	N.D.	
30) 2-Butanone	0.00	43	0	N.D. d	
31) Propionitrile	0.00	54	0	N.D.	
32) Bromochloromethane	0.00	128	0	N.D.	
33) Methacrylonitrile	0.00	41	0	N.D.	
34) Chloroform	6.34	83	2420ms	0.42 ug/l #	37
35) 1,1,1-Trichloroethane	0.00	97	0	N.D.	
37) Cyclohexane	6.87	56	58	N.D.	
38) Carbon Tetrachloride	0.00	117	0	N.D.	
39) 1,1-Dichloropropene	0.00	75	0	N.D.	
41) Benzene	7.63	78	76	N.D.	
42) 1,2-Dichloroethane	0.00	62	0	N.D.	
43) Isobutanol	0.00	43	0	N.D.	
44) t-amyl methyl ether	0.00	73	0	N.D.	
45) Trichloroethene	8.82	130	3507	1.13 ug/l	95
46) Methylcyclohexane	9.07	83	55	N.D.	
47) 1,2-Dichloropropane	0.00	63	0	N.D.	
48) Dibromomethane	0.00	93	0	N.D.	
49) Methyl methacrylate	0.00	41	0	N.D.	
50) Bromodichloromethane	9.50	83	120	N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0	N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0	N.D. d	
56) Toluene	10.37	92	241	N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0	N.D.	
58) Ethyl methacrylate	0.00	69	0	N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0	N.D.	
60) Tetrachloroethene	10.91	166	1415	0.43 ug/l	94
61) 1,3-Dichloropropane	0.00	76	0	N.D.	
62) 2-Hexanone	10.94	43	133	N.D.	
63) Dibromochloromethane	0.00	129	0	N.D. d	
64) 1,2-Dibromoethane	0.00	107	0	N.D.	
65) Chlorobenzene	11.70	112	200	N.D.	
66) 1-Chlorohexane	0.00	91	0	N.D. d	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.	

Handwritten notes:
 2420ms
 4/28/08
 LPM

(#) = qualifier out of range (m) = manual integration
 Y0425018.D Y8260W.M Mon Apr 28 07:59:54 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425018.D
 Acq On : 25 Apr 2008 14:09
 Sample : JPL98-003
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 7:59 2008

Vial: 13
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

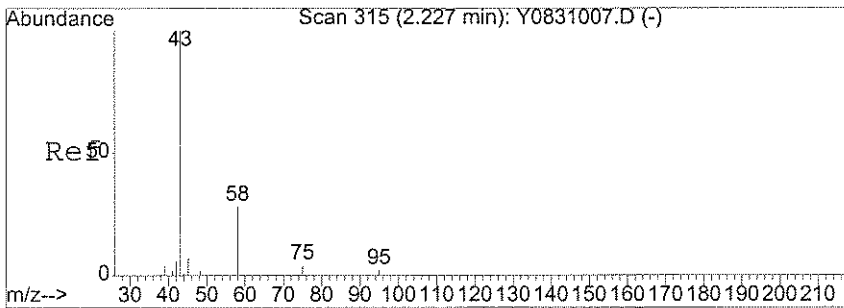
Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.92	91	246		N.D.	
69) m,p-Xylene	11.92	106	87		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.56	105	74		N.D.	
75) trans-1,4-Dichloro-2-buten	12.68	53	68		N.D.	
77) Bromobenzene	12.68	156	76		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.68	83	61		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.89	91	133		N.D.	
82) 4-Chlorotoluene	12.89	91	133		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	926		N.D.	
88) 4-Isopropyltoluene	13.58	119	451		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	628		N.D.	
90) 1,2-Dichlorobenzene	13.92	146	569		N.D.	
91) n-Butylbenzene	13.91	91	310		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	654		N.D.	
94) Hexachlorobutadiene	15.30	225	63		N.D.	
95) Naphthalene	15.38	128	61		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	1405	0.20	ug/l #	92

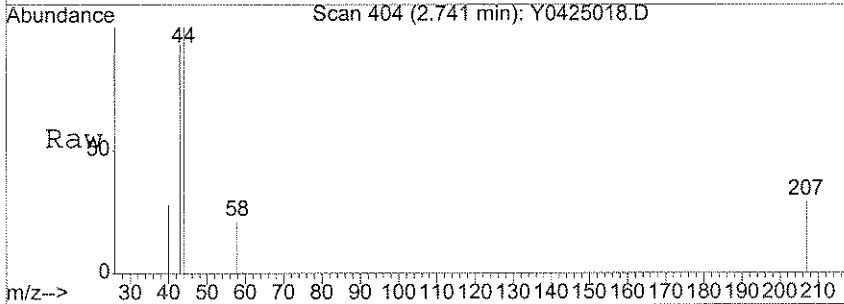
4/28/08 LPM

(#) = qualifier out of range (m) = manual integration
 Y0425018.D Y8260W.M Mon Apr 28 07:59:55 2008

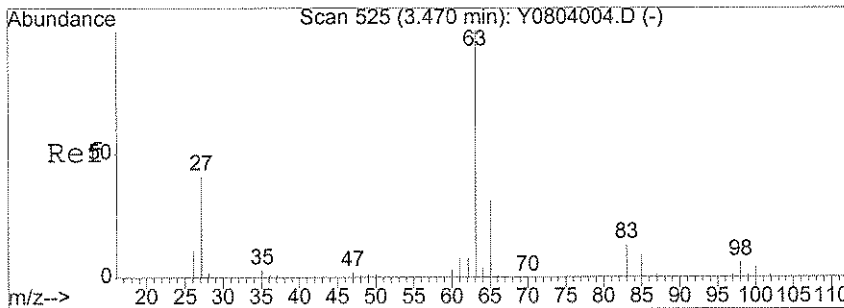
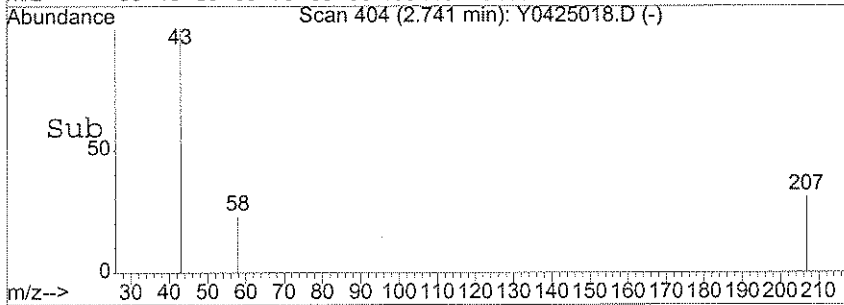
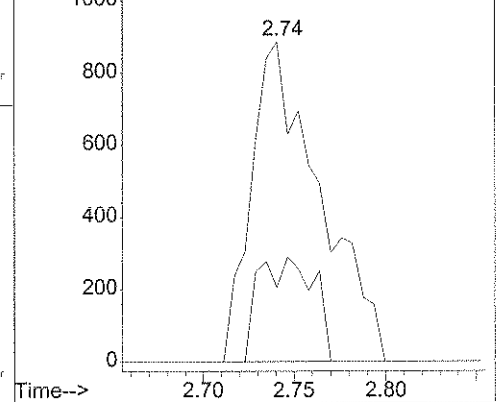


#11
 Acetone
 Concen: 2.51 ug/l
 RT: 2.74 min Scan# 404
 Delta R.T. 0.01 min
 Lab File: Y0425018.D
 Acq: 25 Apr 2008 14:09

Tgt Ion: 43 Resp: 2310
 Ion Ratio Lower Upper
 43 100
 58 11.2 21.3 31.9#

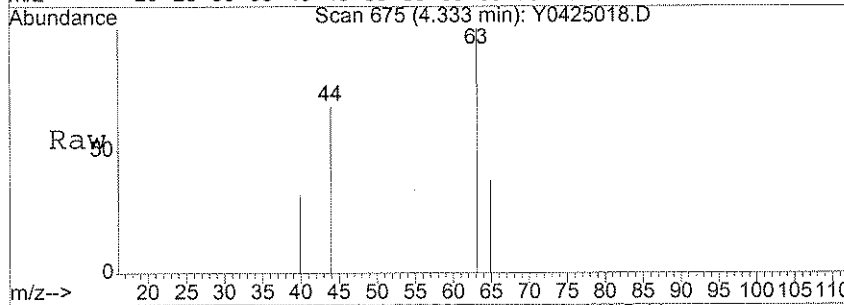


Abundance Ion 43.15 (42.85 to 43.85): Y0425018.D
 Ion 58.05 (57.75 to 58.75): Y0425018.D

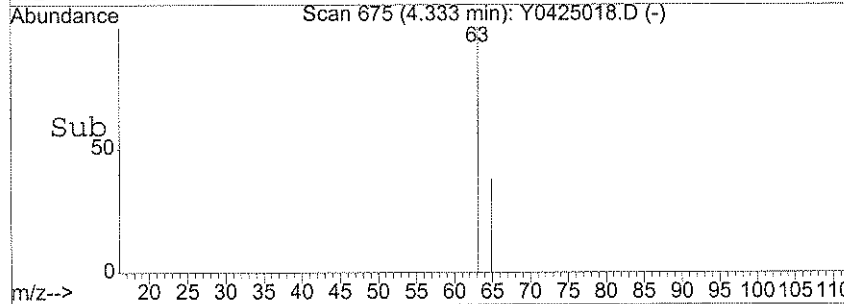
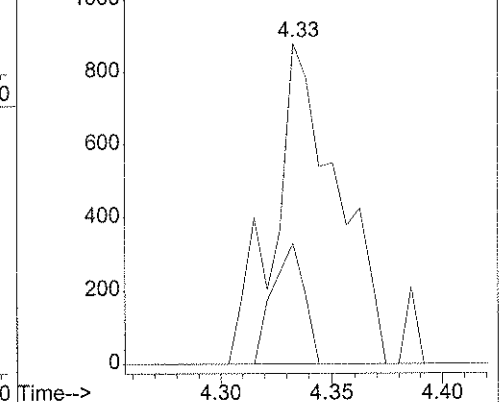


#23
 1,1-Dichloroethane
 Concen: 0.29 ug/l
 RT: 4.33 min Scan# 675
 Delta R.T. -0.01 min
 Lab File: Y0425018.D
 Acq: 25 Apr 2008 14:09

Tgt Ion: 63 Resp: 1736
 Ion Ratio Lower Upper
 63 100
 65 19.1 11.0 51.0



Abundance Ion 63.00 (62.70 to 63.70): Y0425018.D
 Ion 65.00 (64.70 to 65.70): Y0425018.D

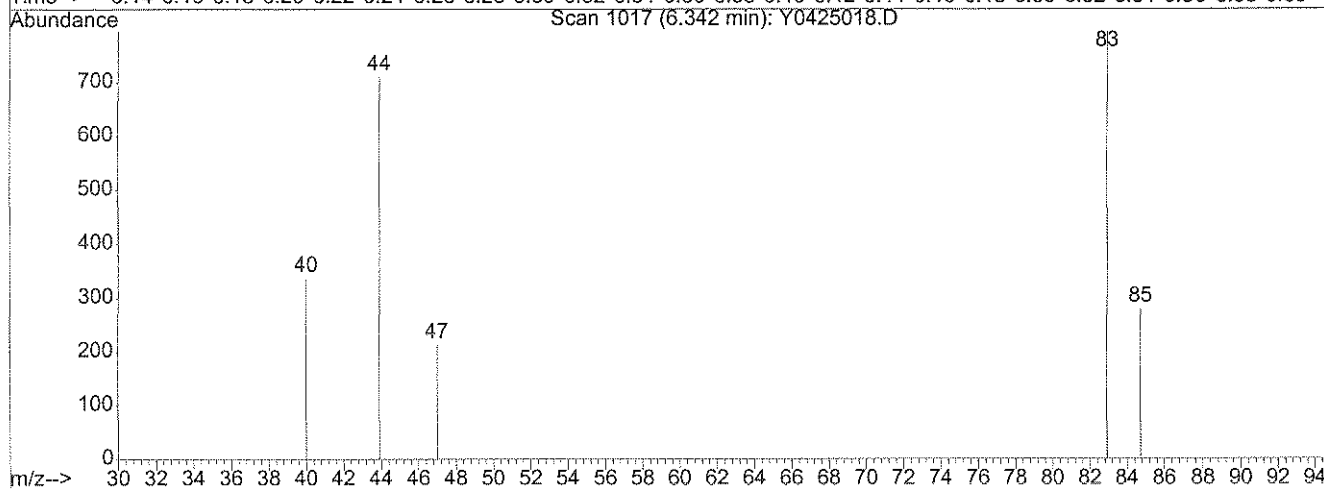
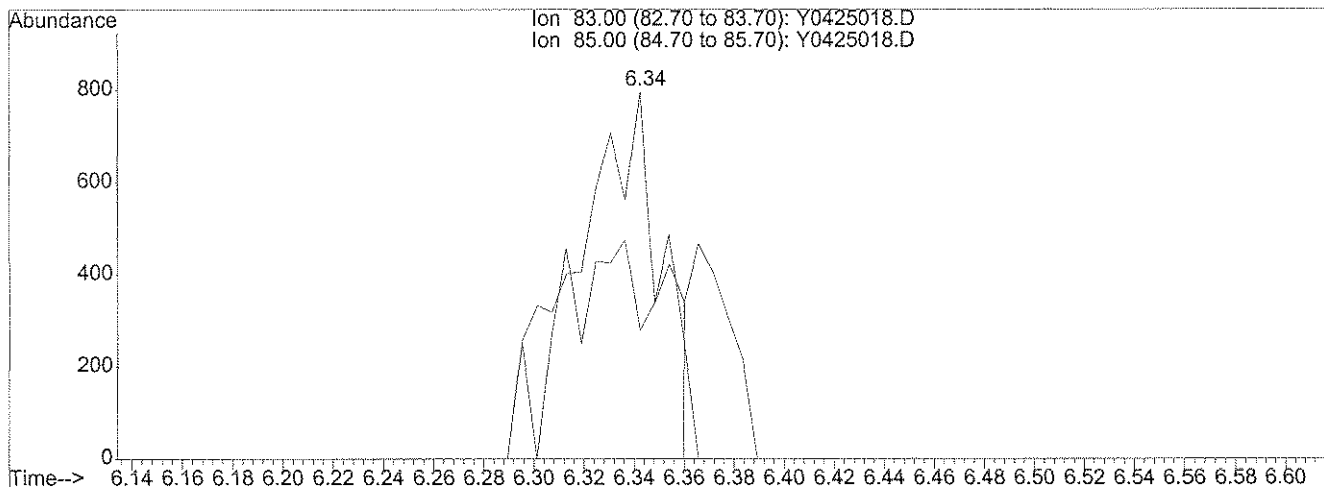


Quantitation Report (Qedit)

Data File : X:\MSVOA\YODA\042508\Y0425018.D
 Acq On : 25 Apr 2008 14:09
 Sample : JPL98-003
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 7:58 2008

Vial: 13
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Multiple Level Calibration



(34) Chloroform (C)

6.34min 0.33ug/l

response 1929

Ion	Exp%	Act%
83.00	100	100
85.00	63.30	14.15#
0.00	0.00	0.00
0.00	0.00	0.00

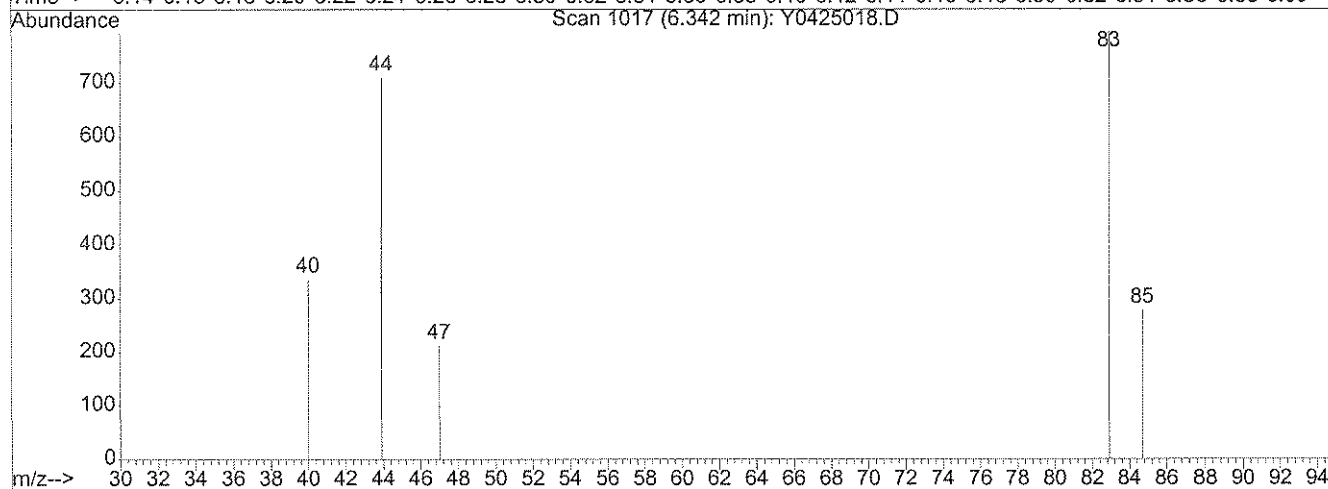
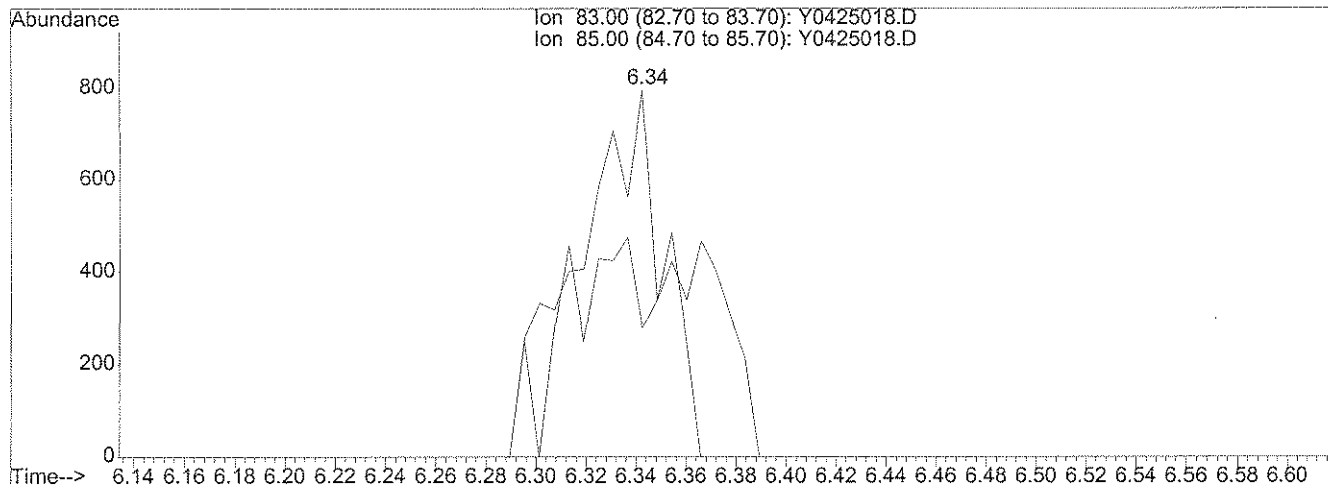
Quantitation Report (Qedit)

Data File : X:\MSVOA\YODA\042508\Y0425018.D
 Acq On : 25 Apr 2008 14:09
 Sample : JPL98-003
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 7:59 2008

Vial: 13
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: temp.res

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Multiple Level Calibration



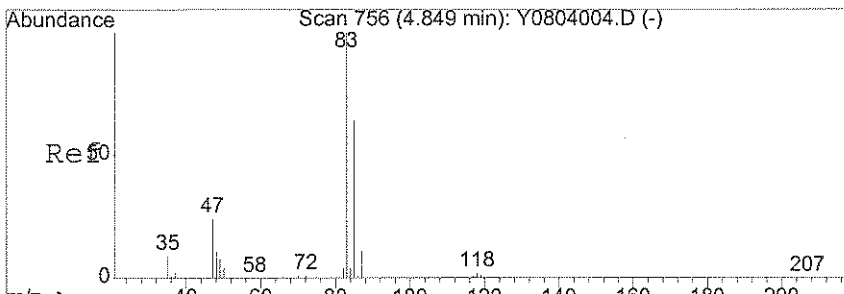
TIC: Y0425018.D

(34) Chloroform (C)

6.34min 0.42ug/l m

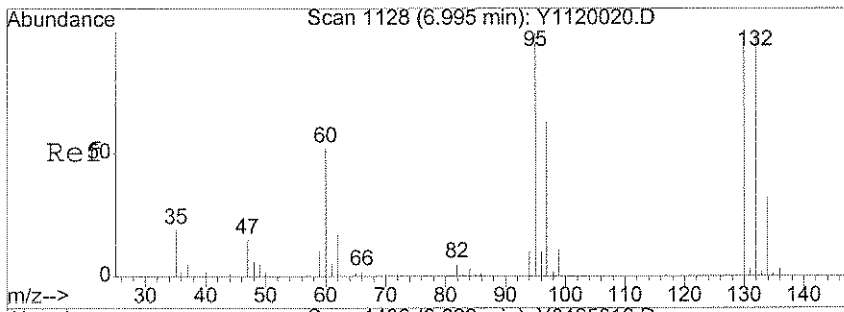
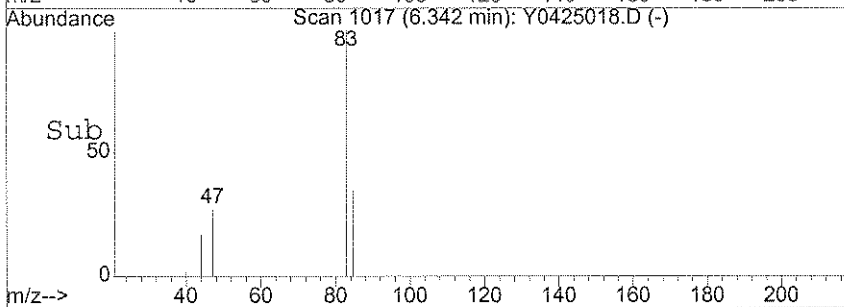
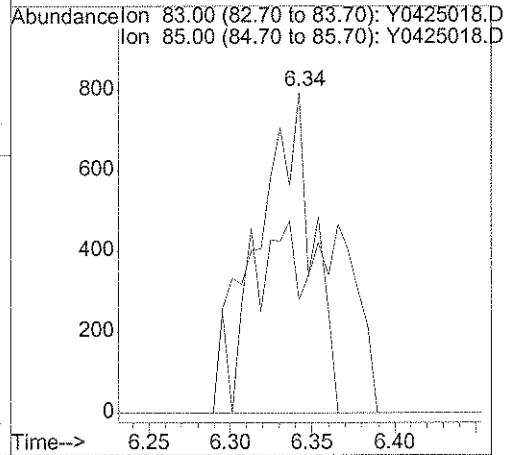
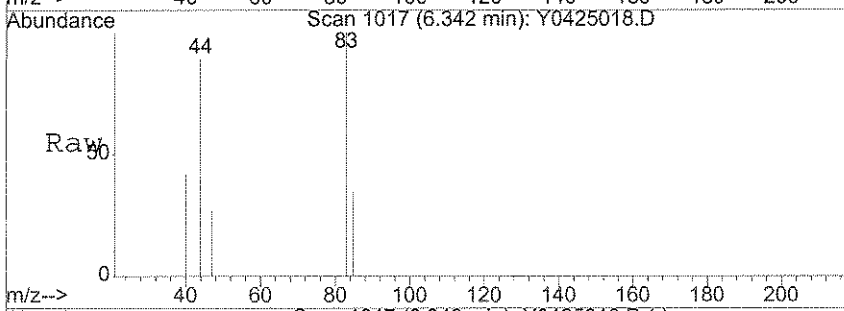
response 2420

Ion	Exp%	Act%
83.00	100	100
85.00	63.30	11.28#
0.00	0.00	0.00
0.00	0.00	0.00



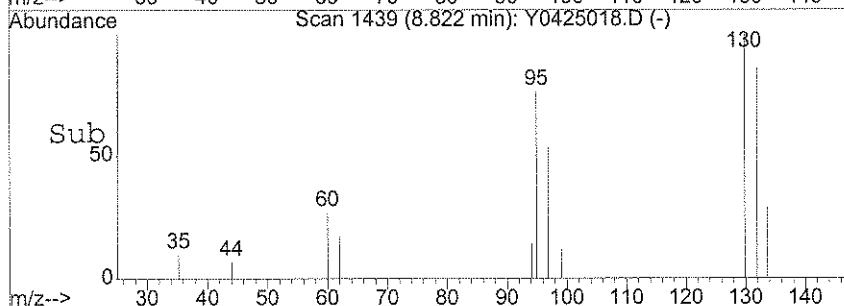
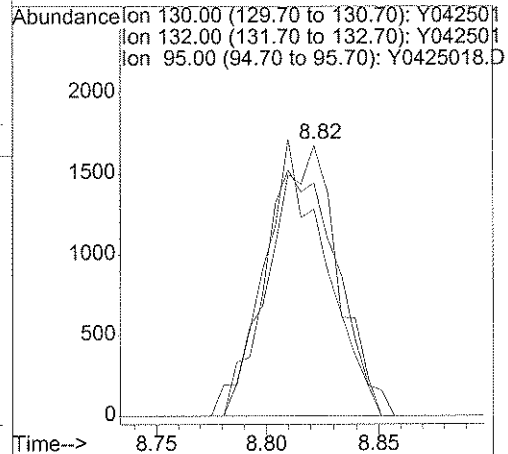
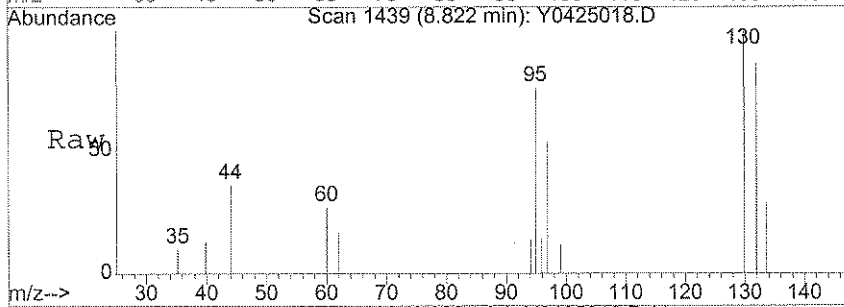
#34
 Chloroform
 Concen: 0.42 ug/l m
 RT: 6.34 min Scan# 1017
 Delta R.T. 0.01 min
 Lab File: Y0425018.D
 Acq: 25 Apr 2008 14:09

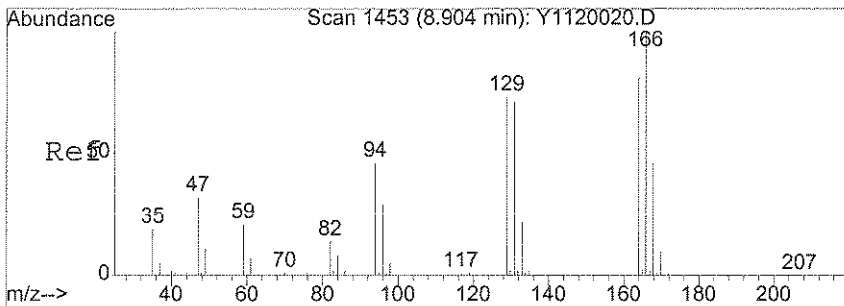
Tgt Ion	Resp	Lower	Upper
83	2420		
85	11.3	43.3	83.3#



#45
 Trichloroethene
 Concen: 1.13 ug/l
 RT: 8.82 min Scan# 1439
 Delta R.T. 0.01 min
 Lab File: Y0425018.D
 Acq: 25 Apr 2008 14:09

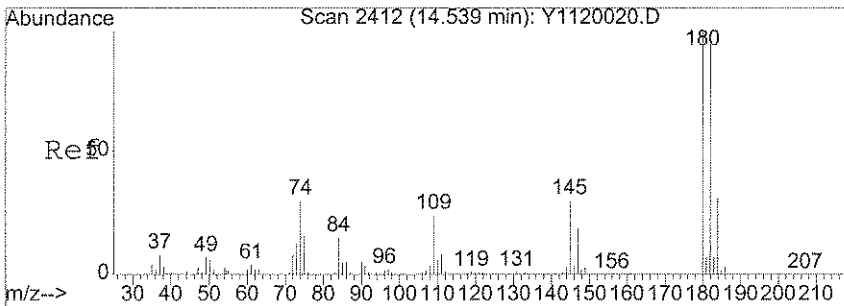
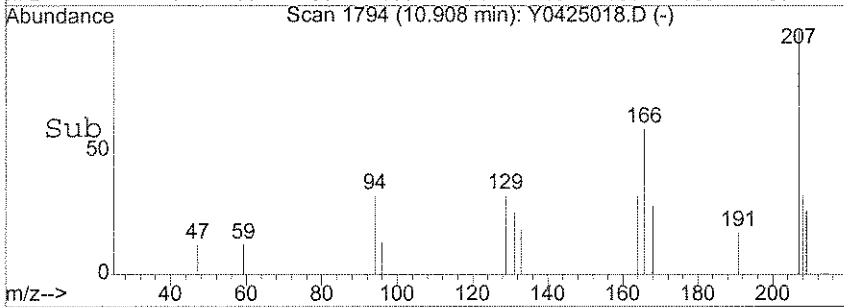
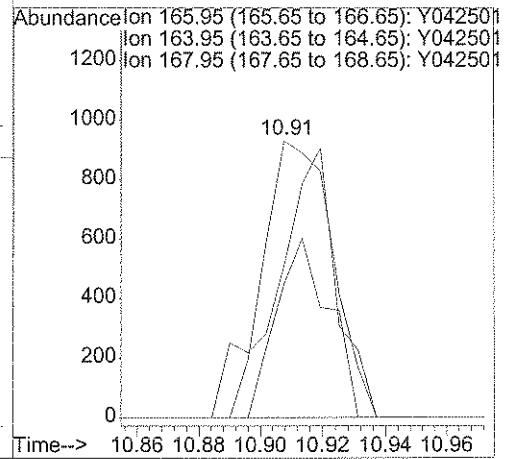
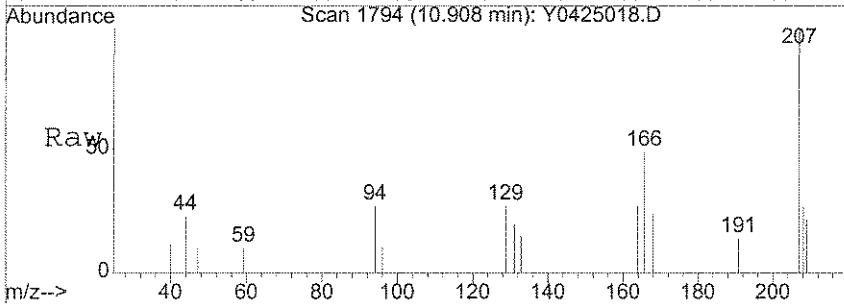
Tgt Ion	Resp	Lower	Upper
130	3507		
132	99.7	75.0	115.0
95	93.6	69.4	109.4





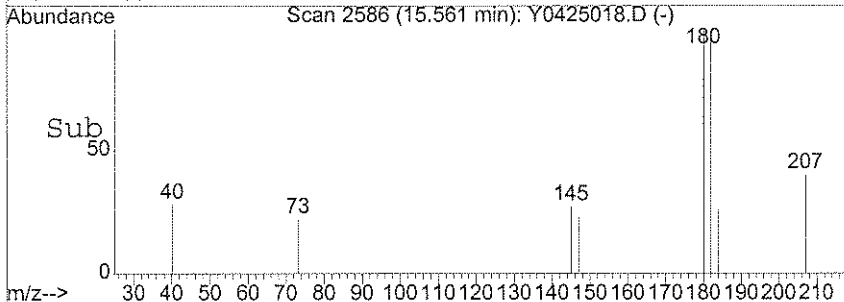
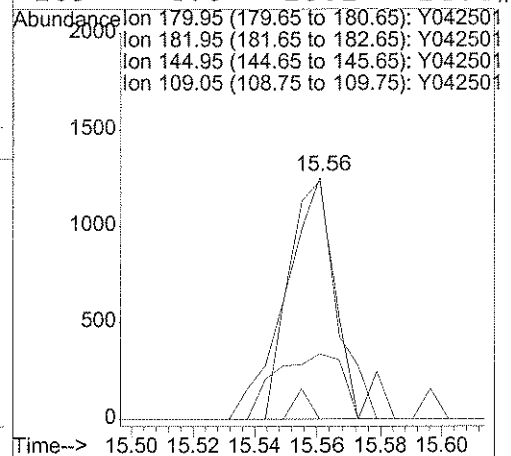
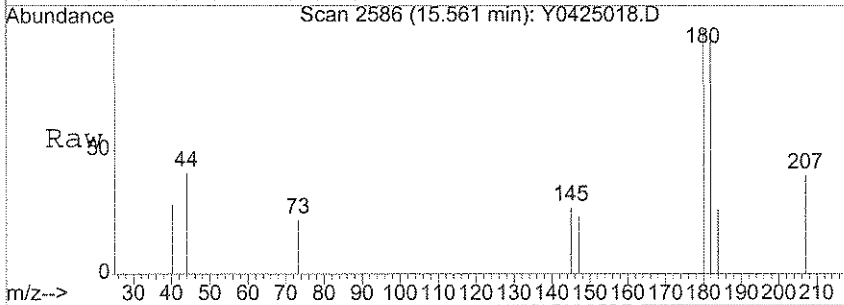
#60
 Tetrachloroethene
 Concen: 0.43 ug/l
 RT: 10.91 min Scan# 1794
 Delta R.T. -0.01 min
 Lab File: Y0425018.D
 Acq: 25 Apr 2008 14:09

Tgt Ion	Ratio	Lower	Upper
166	100		
164	86.9	63.3	94.9
168	50.2	39.6	59.4



#96
 1,2,3-Trichlorobenzene
 Concen: 0.20 ug/l
 RT: 15.56 min Scan# 2586
 Delta R.T. 0.01 min
 Lab File: Y0425018.D
 Acq: 25 Apr 2008 14:09

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.9	76.1	114.1
145	35.2	24.1	36.1
109	4.0	16.2	24.4



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-2

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-004
 Lab File ID: Y0425019.D
 Date Collected: 04/22/2008
 Date/Time Analyzed: 04/25/2008 14:43
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.34	J
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	5.8	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-2

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-004
 Lab File ID: Y0425019.D
 Date Collected: 04/22/2008
 Date/Time Analyzed: 04/25/2008 14:43
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.43	J
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-2

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-004
 Lab File ID: Y0425019.D
 Date Collected: 04/22/2008
 Date/Time Analyzed: 04/25/2008 14:43
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

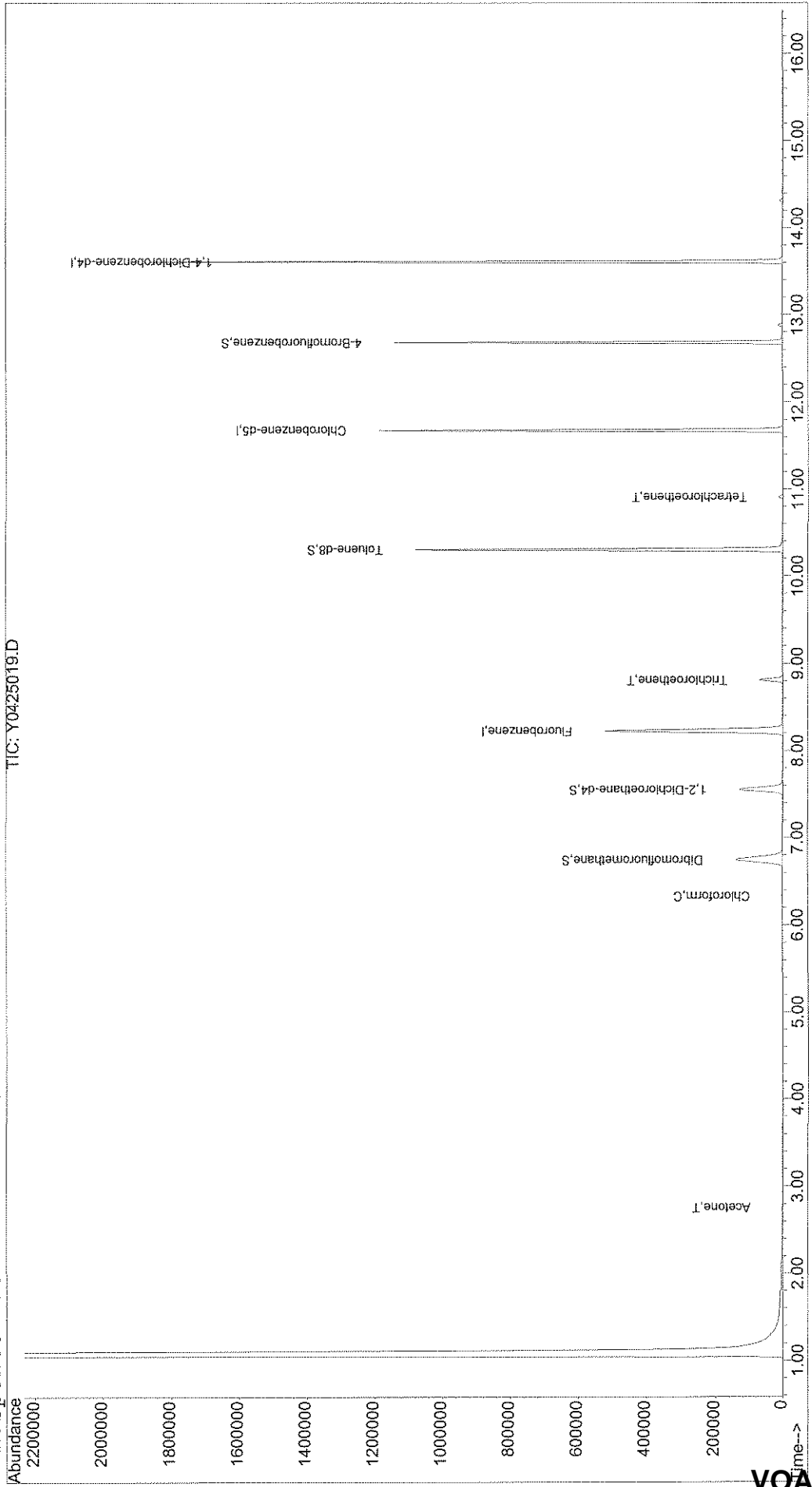
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425019.D Vial: 14
Acq On : 25 Apr 2008 14:43 Operator: LPM
Sample : JPL98-004 Inst : Yoda
Misc : #4 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 8:00 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425019.D
 Acq On : 25 Apr 2008 14:43
 Sample : JPL98-004
 Misc : #4 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:00 2008

Vial: 14
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	609195	50.00	ug/l	0.00	119.30%
54) Chlorobenzene-d5	11.68	82	290057	50.00	ug/l	0.00	118.59%
74) 1,4-Dichlorobenzene-d4	13.61	152	400465	50.00	ug/l	0.00	114.27%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	183156	45.96	ug/l	-0.01	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	91.92%	
40) 1,2-Dichloroethane-d4	7.55	65	158472	41.63	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	83.26%	
55) Toluene-d8	10.30	98	656950	52.31	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	104.62%	
76) 4-Bromofluorobenzene	12.68	95	265052	50.91	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	101.82%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	0.00	50	0	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.76	43	2072	1.43	ug/l #	86
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.88	76	55	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	3.17	43	92	N.D.		
18) Methylene Chloride	3.26	84	62	Below Cal	#	1
19) trans-1,2-Dichloroethene	3.67	96	549	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

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

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425019.D
 Acq On : 25 Apr 2008 14:43
 Sample : JPL98-004
 Misc : #4 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:00 2008

Vial: 14
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	4.35	63	751		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	5.48	96	761		N.D.	
30) 2-Butanone	5.68	43	56		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.33	83	3092	0.34	ug/l #	64
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	6.79	56	55		N.D.	
38) Carbon Tetrachloride	7.19	117	55		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.65	78	56		N.D.	
42) 1,2-Dichloroethane	7.54	62	82		N.D.	
43) Isobutanol	0.00	43	0		N.D. d	
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	8.82	130	28248	5.77	ug/l	100
46) Methylcyclohexane	9.06	83	69		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	9.49	83	176		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D. d	
56) Toluene	10.38	92	124		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	10.85	69	66		N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0		N.D.	
60) Tetrachloroethene	10.91	166	2036	0.43	ug/l	93
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	10.78	43	181		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D. d	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.69	112	229		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D. d	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

4/28/08 LPM

(#) = qualifier out of range (m) = manual integration
 Y0425019.D Y8260W.M Mon Apr 28 08:00:46 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425019.D
 Acq On : 25 Apr 2008 14:43
 Sample : JPL98-004
 Misc : #4 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:00 2008

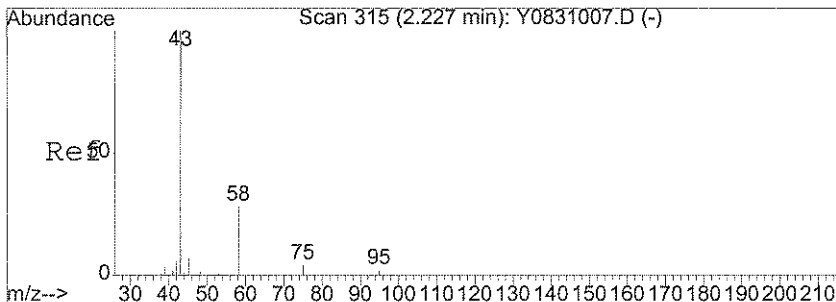
Vial: 14
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

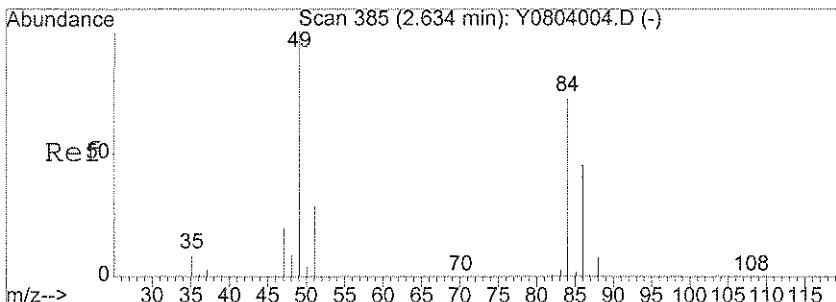
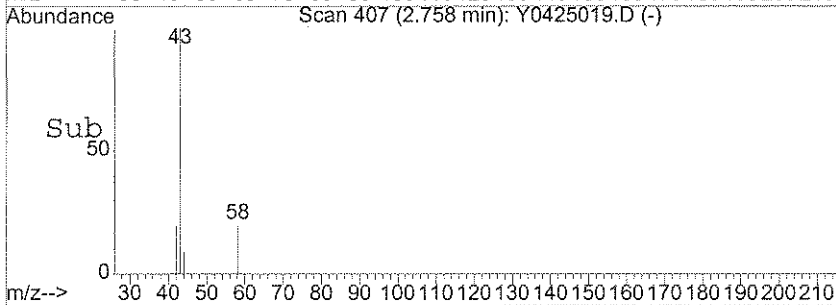
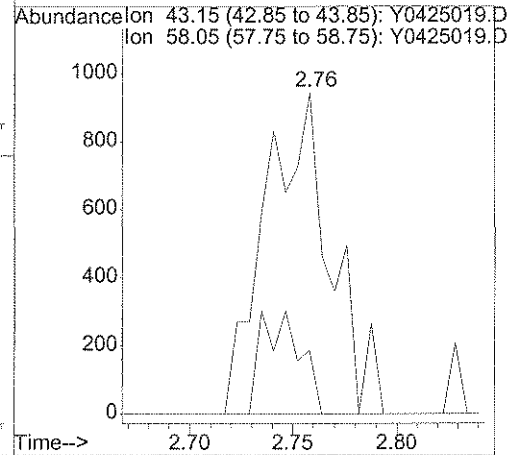
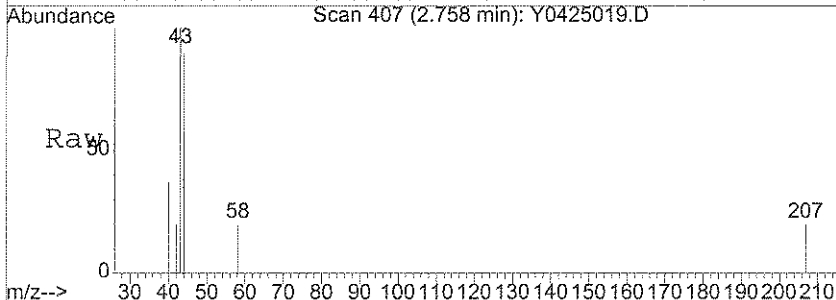
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.79	91	114		N.D.	
69) m,p-Xylene	11.80	106	62		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.56	105	98		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	137		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.68	83	116		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.89	91	117		N.D.	
82) 4-Chlorotoluene	13.04	91	140		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	59		N.D.	
88) 4-Isopropyltoluene	13.59	119	102		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	262		N.D.	
90) 1,2-Dichlorobenzene	13.92	146	355		N.D.	
91) n-Butylbenzene	13.92	91	282		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	174		N.D.	
94) Hexachlorobutadiene	15.30	225	134		N.D.	
95) Naphthalene	15.36	128	72		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	606		N.D.	

4/28/08 LPM



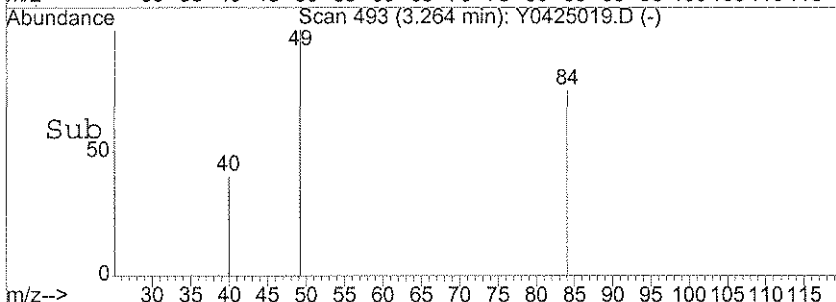
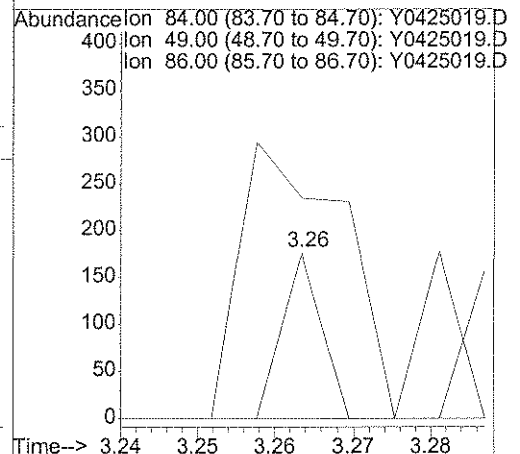
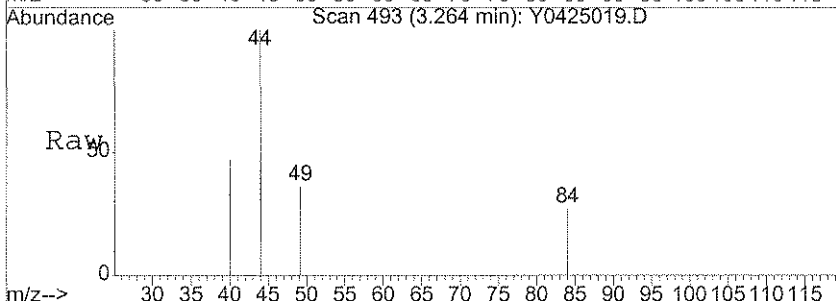
#11
 Acetone
 Concen: 1.43 ug/l
 RT: 2.76 min Scan# 407
 Delta R.T. 0.02 min
 Lab File: Y0425019.D
 Acq: 25 Apr 2008 14:43

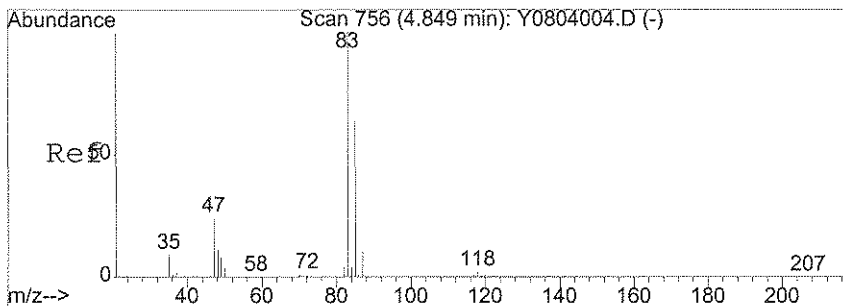
Tgt Ion:	43	Resp:	2072
Ion Ratio	Lower	Upper	
43	100		
58	19.3	21.3	31.9#



#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.26 min Scan# 493
 Delta R.T. -0.01 min
 Lab File: Y0425019.D
 Acq: 25 Apr 2008 14:43

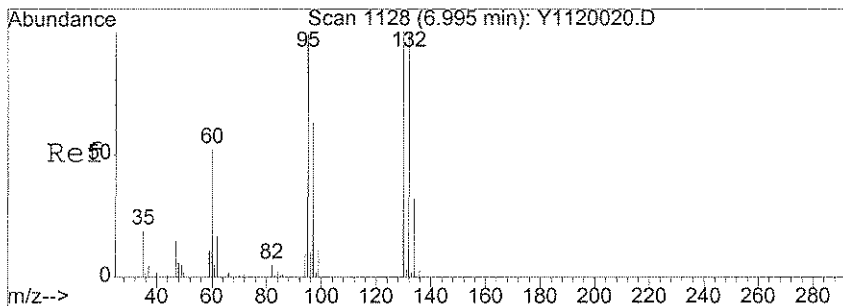
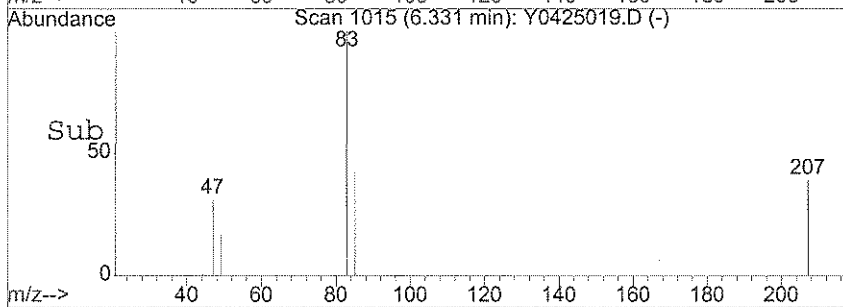
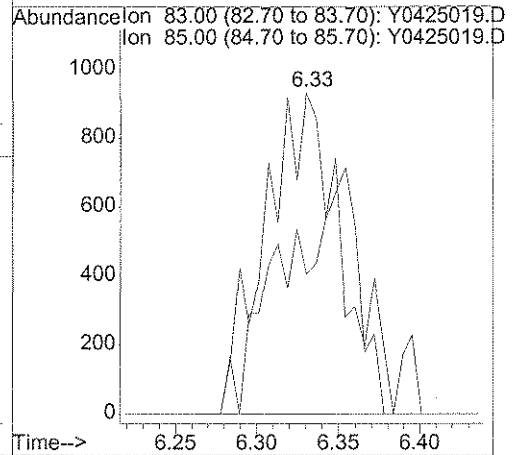
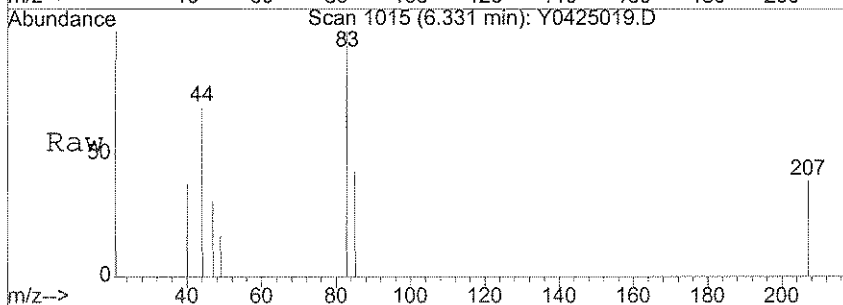
Tgt Ion:	84	Resp:	62
Ion Ratio	Lower	Upper	
84	100		
49	533.9	112.5	152.5#
86	0.0	39.5	79.5#





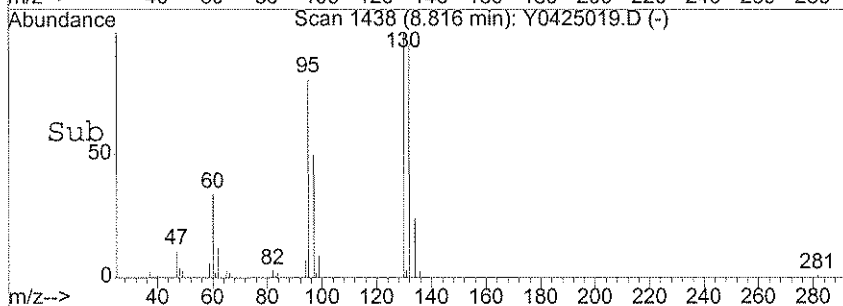
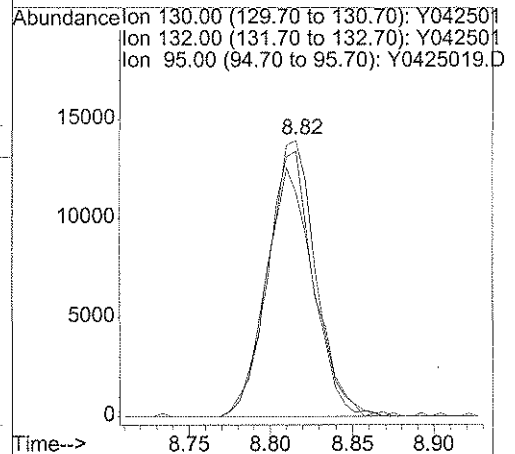
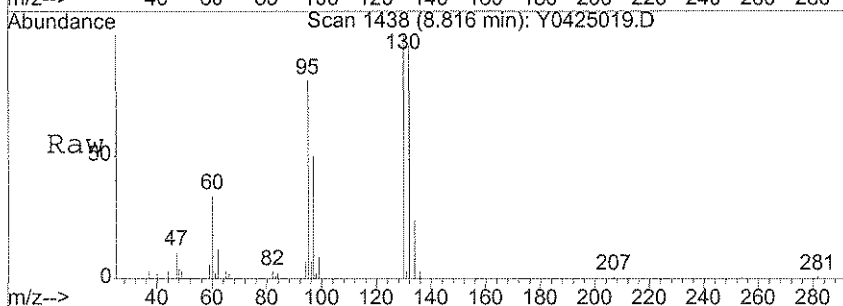
#34
 Chloroform
 Concen: 0.34 ug/l
 RT: 6.33 min Scan# 1015
 Delta R.T. -0.01 min
 Lab File: Y0425019.D
 Acq: 25 Apr 2008 14:43

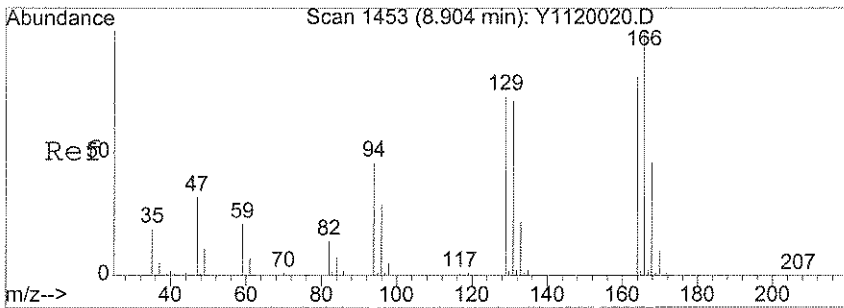
Tgt Ion	Resp	Lower	Upper
83	3092		
85	35.6	43.3	83.3#



#45
 Trichloroethene
 Concen: 5.77 ug/l
 RT: 8.82 min Scan# 1438
 Delta R.T. 0.00 min
 Lab File: Y0425019.D
 Acq: 25 Apr 2008 14:43

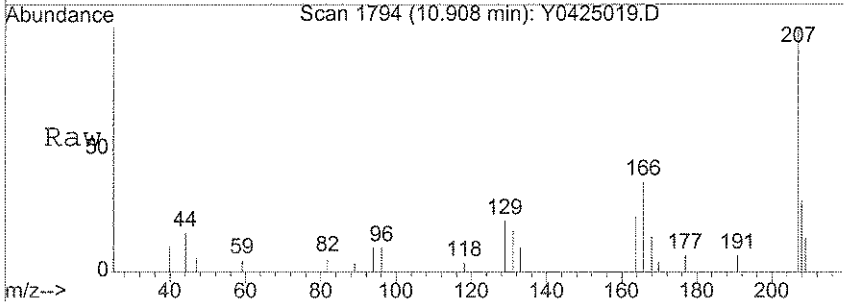
Tgt Ion	Resp	Lower	Upper
130	28248		
132	94.9	75.0	115.0
95	88.8	69.4	109.4



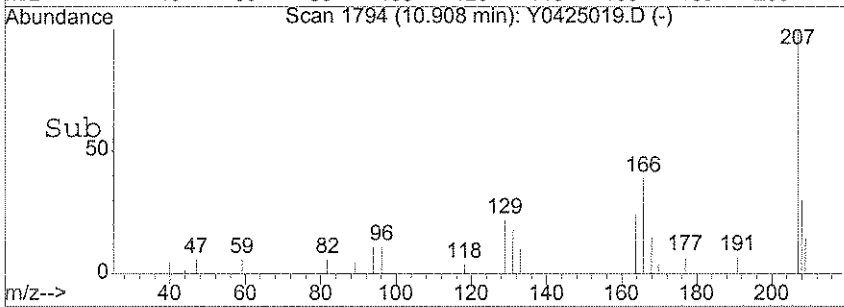
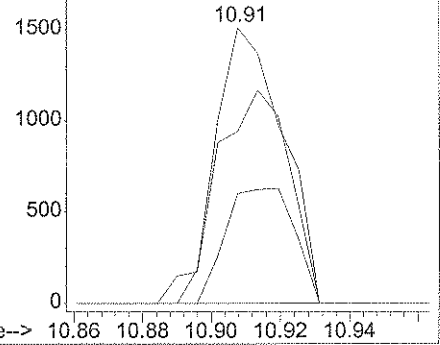


#60
 Tetrachloroethene
 Concen: 0.43 ug/l
 RT: 10.91 min Scan# 1794
 Delta R.T. -0.01 min
 Lab File: Y0425019.D
 Acq: 25 Apr 2008 14:43

Tgt Ion	Resp	Lower	Upper
166	2036		
166	100		
164	84.2	63.3	94.9
168	42.6	39.6	59.4



Abundance Ion 165.95 (165.65 to 166.65): Y0425019.D
 Ion 163.95 (163.65 to 164.65): Y0425019.D
 Ion 167.95 (167.65 to 168.65): Y0425019.D



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-1

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-005
 Lab File ID: Y0425020.D
 Date Collected: 04/22/2008
 Date/Time Analyzed: 04/25/2008 15:08
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.28	J
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	2.9	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-1

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-005
 Lab File ID: Y0425020.D
 Date Collected: 04/22/2008
 Date/Time Analyzed: 04/25/2008 15:08
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-1

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-005
 Lab File ID: Y0425020.D
 Date Collected: 04/22/2008
 Date/Time Analyzed: 04/25/2008 15:08
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

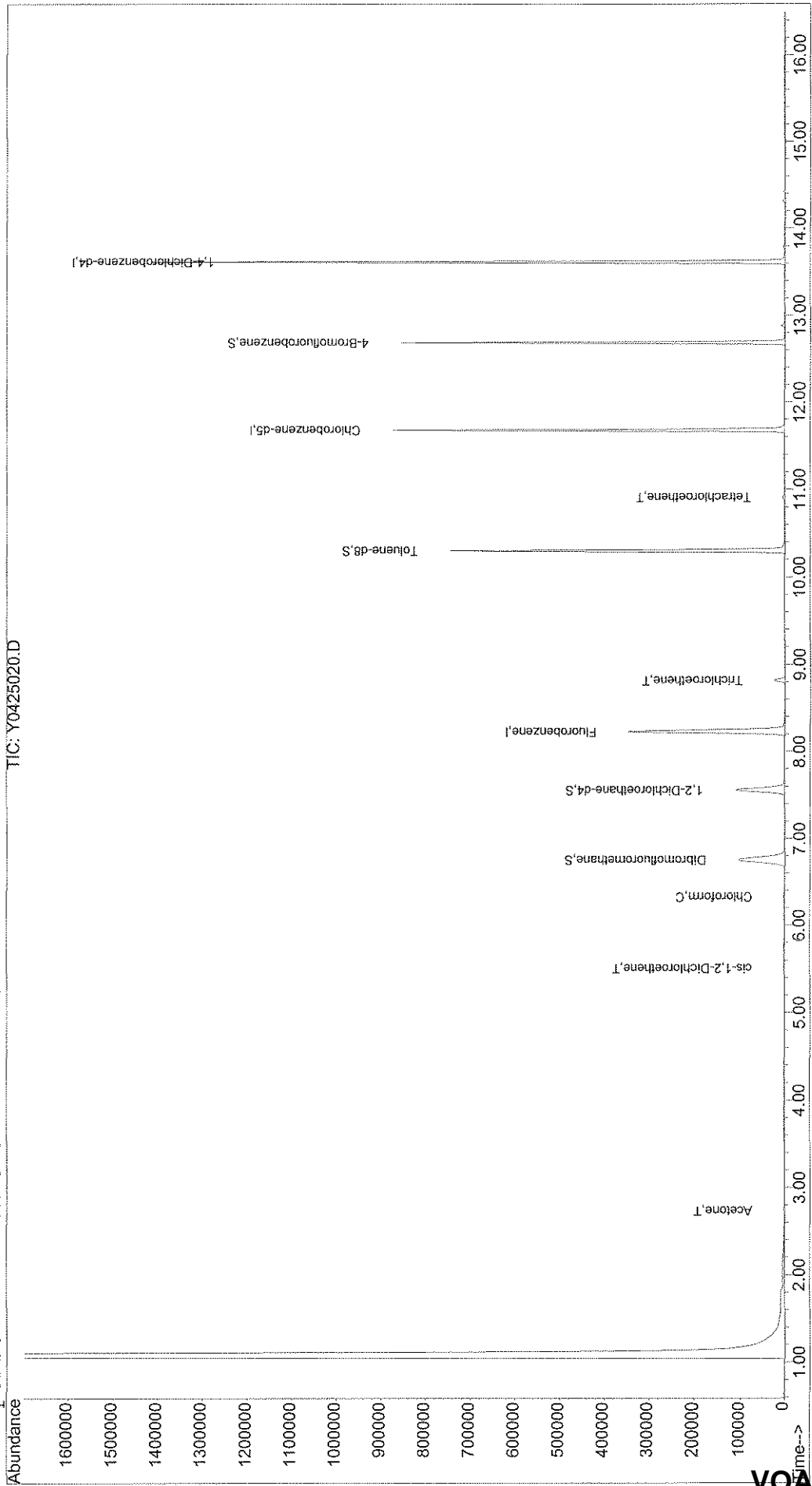
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425020.D Vial: 15
Acq On : 25 Apr 2008 15:08 Operator: LPM
Sample : JPL98-005 Inst : Yoda
Misc : #4 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 8:01 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425020.D
 Acq On : 25 Apr 2008 15:08
 Sample : JPL98-005
 Misc : #4 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:01 2008

Vial: 15
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	409995	50.00	ug/l	0.00	80.29%
54) Chlorobenzene-d5	11.68	82	216072	50.00	ug/l	0.00	88.34%
74) 1,4-Dichlorobenzene-d4	13.61	152	310599	50.00	ug/l	0.00	88.63%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	139771	52.12	ug/l	-0.01	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	104.24%	
40) 1,2-Dichloroethane-d4	7.55	65	132309	51.65	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.30%	
55) Toluene-d8	10.30	98	443665	47.42	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	94.84%	
76) 4-Bromofluorobenzene	12.68	95	200992	49.78	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	99.56%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	0.00	50	0	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.74	43	2473	2.54	ug/l	93
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	134	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.28	84	145	Below Cal	#	25
19) trans-1,2-Dichloroethene	3.67	96	425	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	3.69	73	145	N.D.		

4/28/08 LPM

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

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425020.D
 Acq On : 25 Apr 2008 15:08
 Sample : JPL98-005
 Misc : #4 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:01 2008

Vial: 15
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	4.35	63	470		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	5.50	96	731	0.21	ug/l	86
30) 2-Butanone	5.69	43	69		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.32	83	1736	0.28	ug/l	91
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.65	78	77		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D. d	
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	8.82	130	9629	2.92	ug/l	95
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	10.18	43	58		N.D.	
56) Toluene	0.00	92	0		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.89	97	82		N.D.	
60) Tetrachloroethene	10.92	166	636	0.18	ug/l	90
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.14	43	134		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D. d	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.89	112	54		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D. d	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0425020.D Y8260W.M Mon Apr 28 08:01:52 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425020.D
 Acq On : 25 Apr 2008 15:08
 Sample : JPL98-005
 Misc : #4 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:01 2008

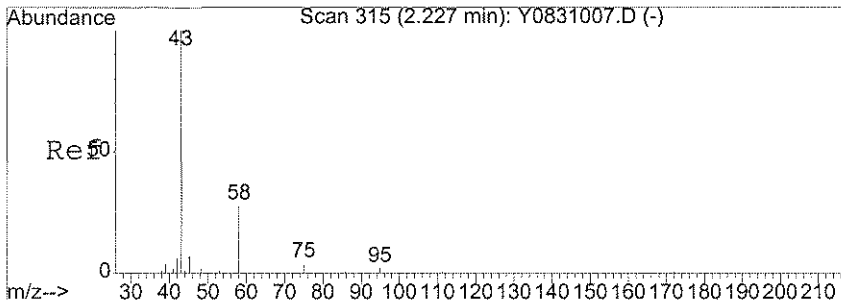
Vial: 15
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

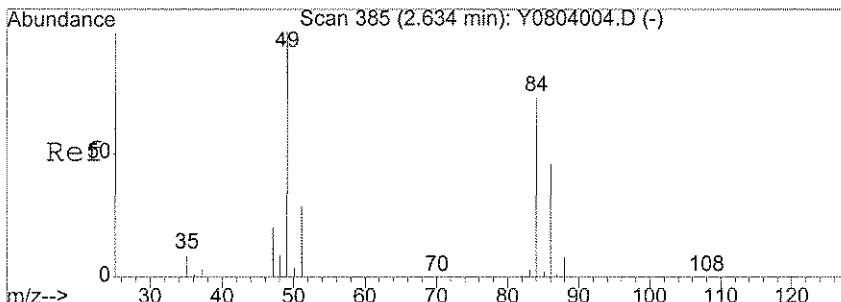
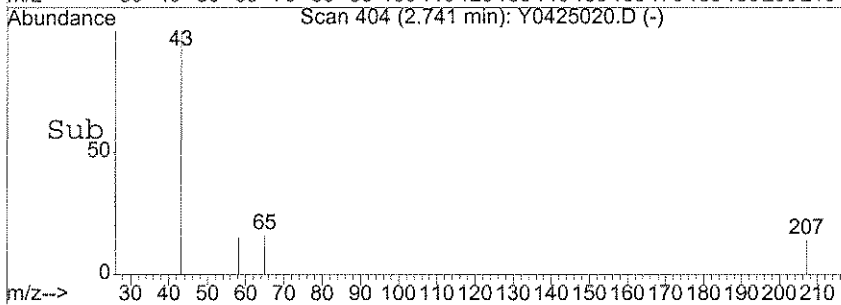
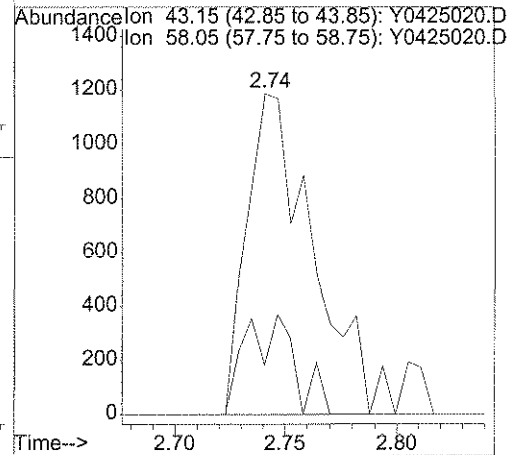
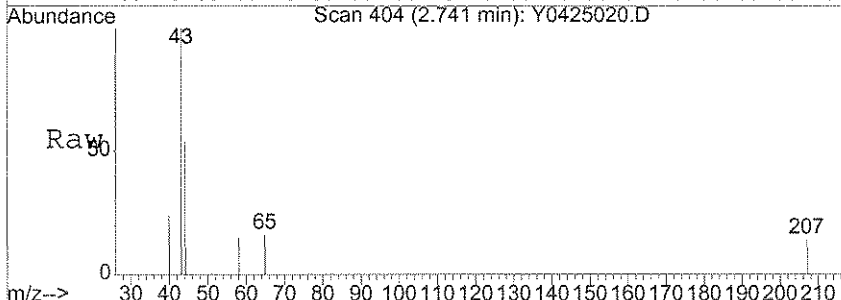
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	74		N.D.	
69) m,p-Xylene	11.91	106	124		N.D.	
70) o-xylene	12.07	106	53		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.68	105	158		N.D.	
75) trans-1,4-Dichloro-2-buten	12.44	53	57		N.D.	
77) Bromobenzene	12.68	156	112		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.88	83	53		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.91	91	165		N.D.	
82) 4-Chlorotoluene	12.91	91	165		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	59		N.D.	
88) 4-Isopropyltoluene	13.60	119	141		N.D.	
89) 1,4-Dichlorobenzene	13.64	146	66		N.D.	
90) 1,2-Dichlorobenzene	13.92	146	344		N.D.	
91) n-Butylbenzene	13.90	91	164		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	233		N.D.	
94) Hexachlorobutadiene	15.30	225	115		N.D.	
95) Naphthalene	15.36	128	152		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	219		N.D.	

al2008/08/28



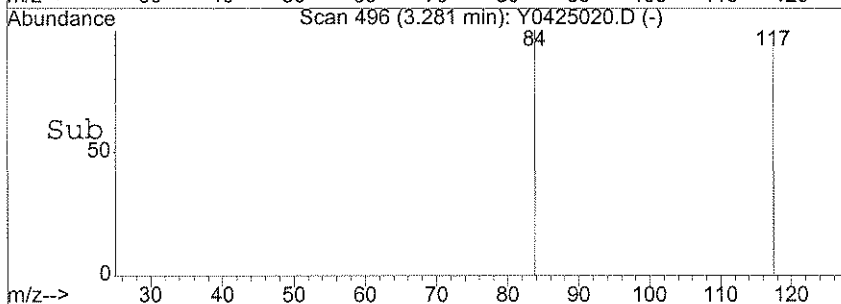
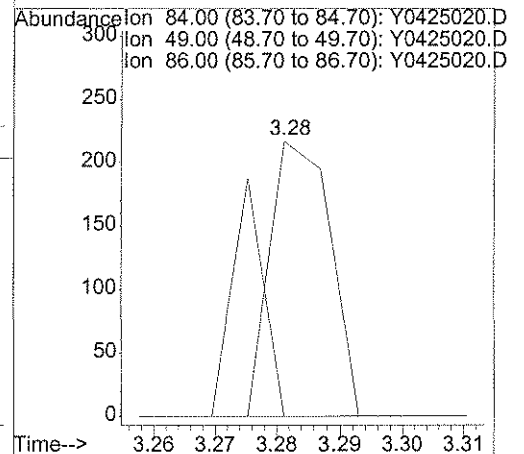
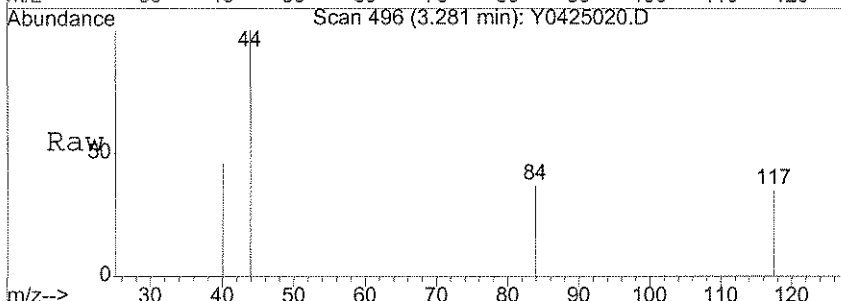
#11
 Acetone
 Concen: 2.54 ug/l
 RT: 2.74 min Scan# 404
 Delta R.T. 0.01 min
 Lab File: Y0425020.D
 Acq: 25 Apr 2008 15:08

Tgt Ion	Resp	Lower	Upper
43	2473		
58	23.2	21.3	31.9



#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.28 min Scan# 496
 Delta R.T. 0.01 min
 Lab File: Y0425020.D
 Acq: 25 Apr 2008 15:08

Tgt Ion	Resp	Lower	Upper
84	145		
49	45.5	112.5	152.5#
86	0.0	39.5	79.5#



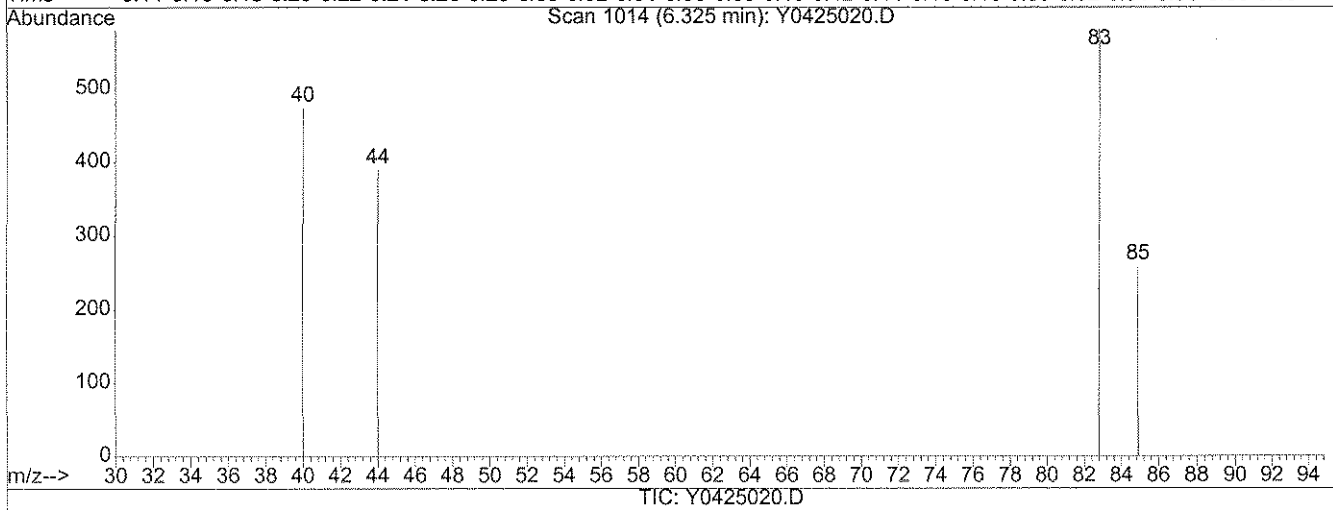
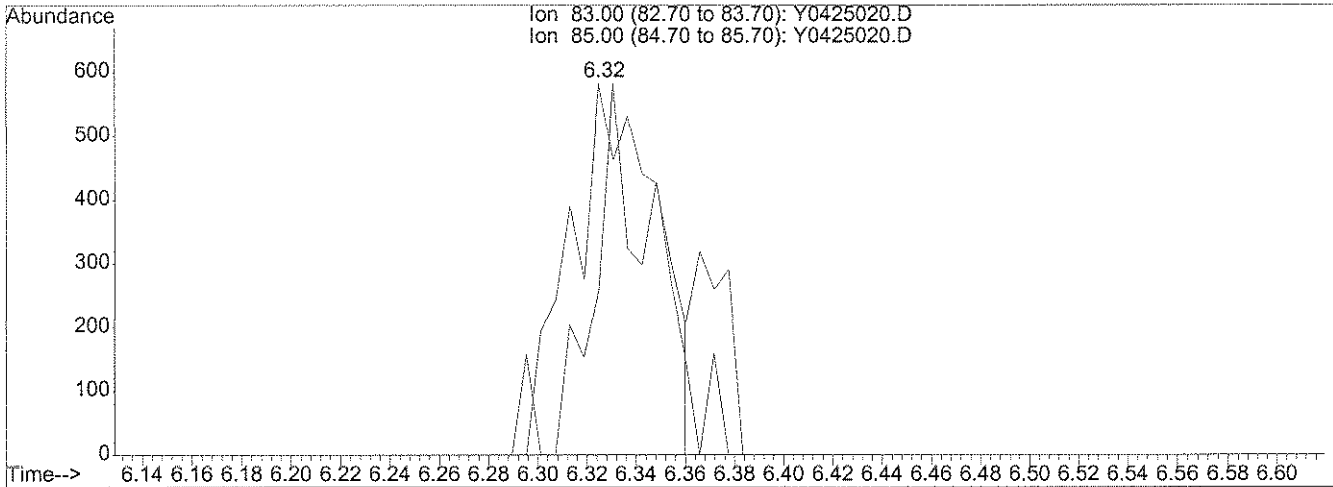
Quantitation Report (Qedit)

Data File : X:\MSVOA\YODA\042508\Y0425020.D
Acq On : 25 Apr 2008 15:08
Sample : JPL98-005
Misc : #4 5mL+IS/SS(MV8-45-10) (524)
MS Integration Params: rteint.p
Quant Time: Apr 28 8:01 2008

Vial: 15
Operator: LPM
Inst : yoda
Multiplr: 1.00

Quant Results File: temp.res

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Multiple Level Calibration



(34) Chloroform (C)

6.32min 0.23ug/l

response 1430

Ion	Exp%	Act%
83.00	100	100
85.00	63.30	69.93
0.00	0.00	0.00
0.00	0.00	0.00

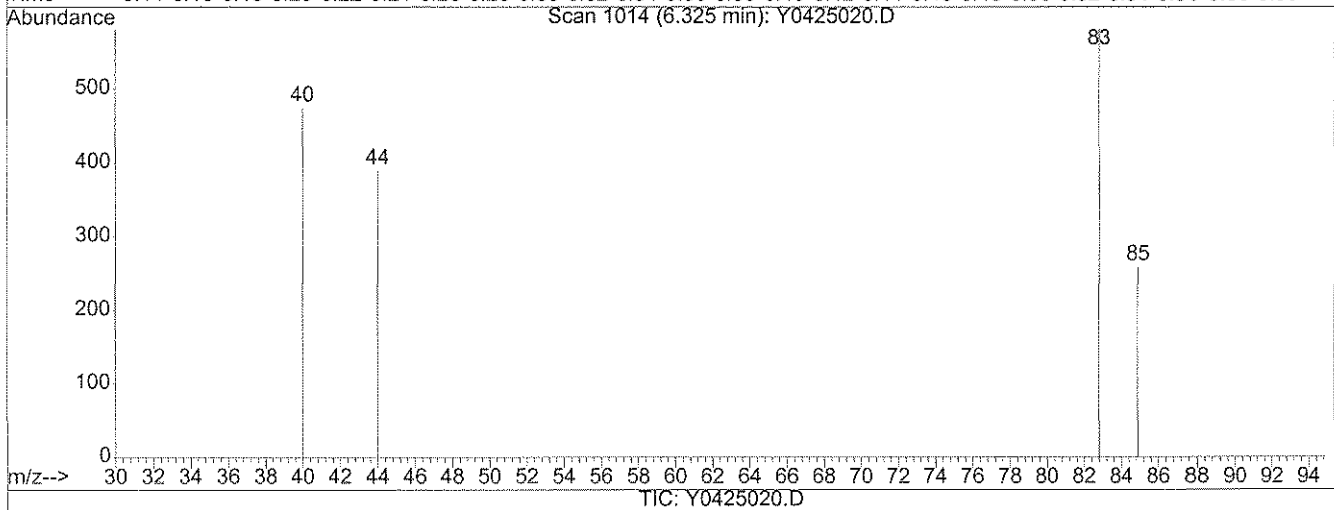
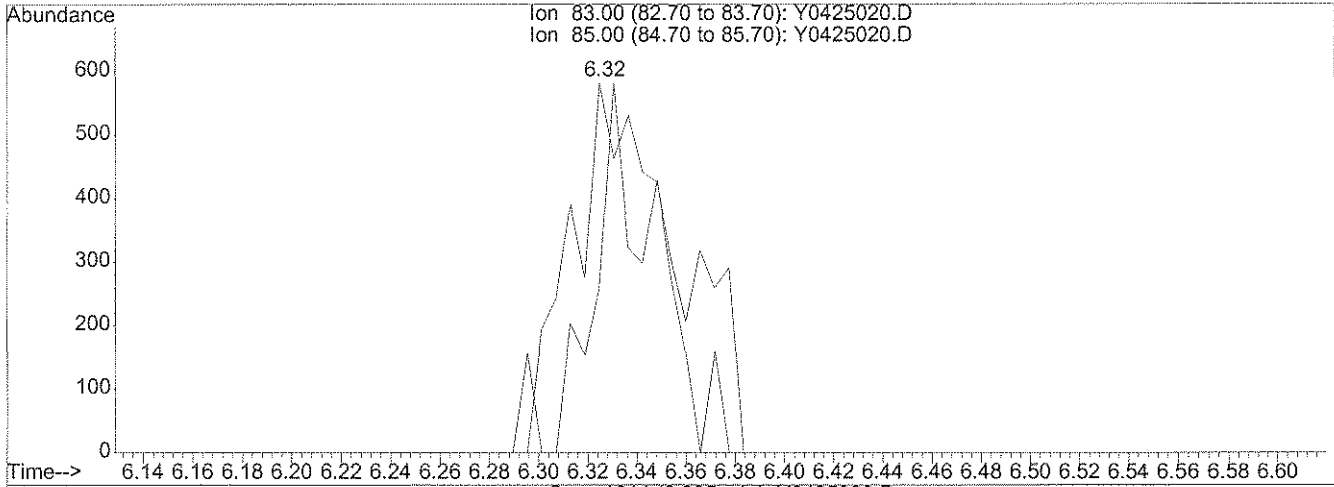
Quantitation Report (Qedit)

Data File : X:\MSVOA\YODA\042508\Y0425020.D
 Acq On : 25 Apr 2008 15:08
 Sample : JPL98-005
 Misc : #4 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:01 2008

Vial: 15
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: temp.res

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Multiple Level Calibration

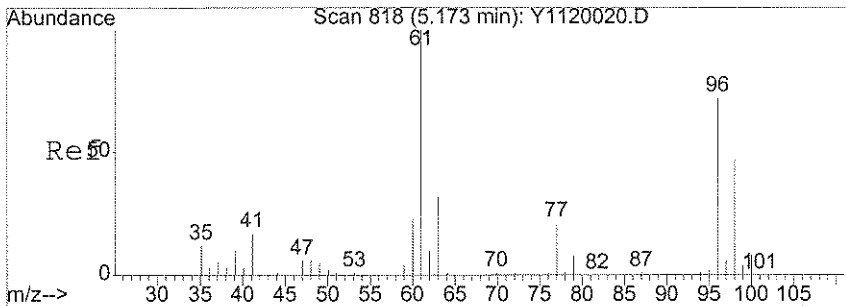


(34) Chloroform (C)

6.32min 0.28ug/l m

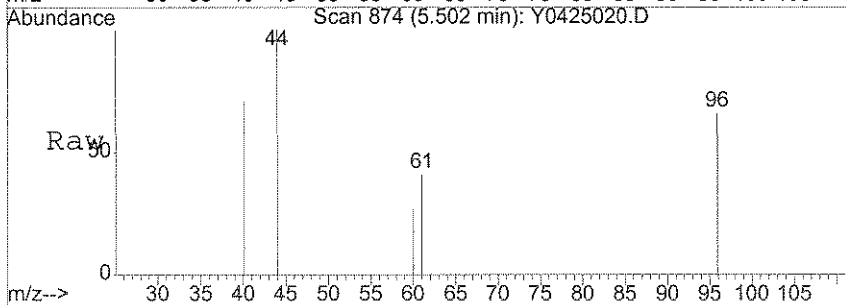
response 1736

Ion	Exp%	Act%
83.00	100	100
85.00	63.30	57.60
0.00	0.00	0.00
0.00	0.00	0.00

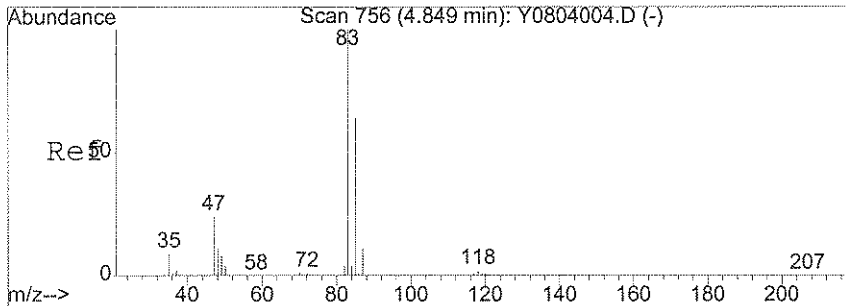
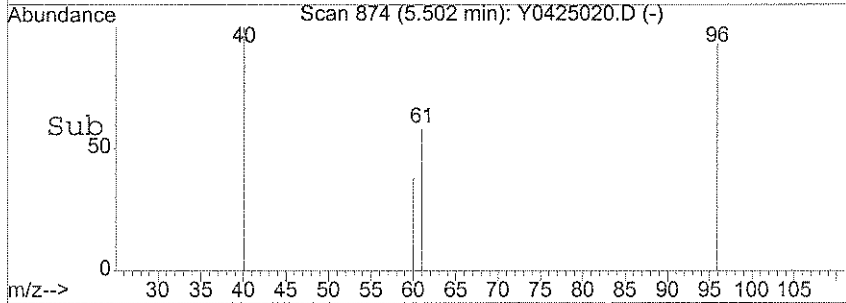
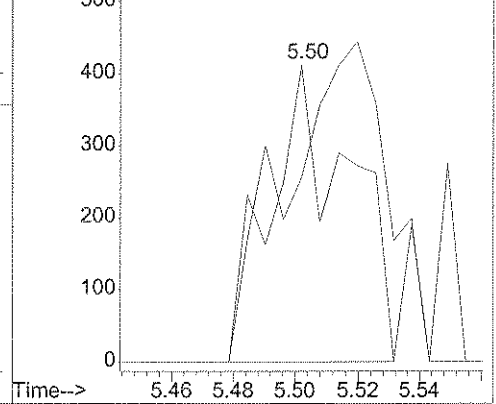


#29
 cis-1,2-Dichloroethene
 Concen: 0.21 ug/l
 RT: 5.50 min Scan# 874
 Delta R.T. 0.00 min
 Lab File: Y0425020.D
 Acq: 25 Apr 2008 15:08

Tgt Ion: 96 Resp: 731
 Ion Ratio Lower Upper
 96 100
 61 138.0 98.1 147.1

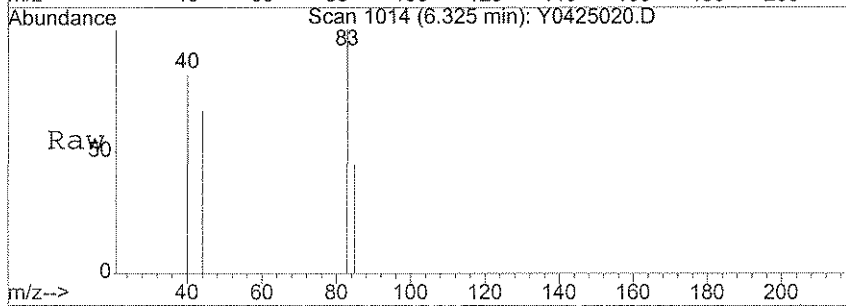


Abundance Ion 95.95 (95.65 to 96.65): Y0425020.D
 Ion 61.05 (60.75 to 61.75): Y0425020.D

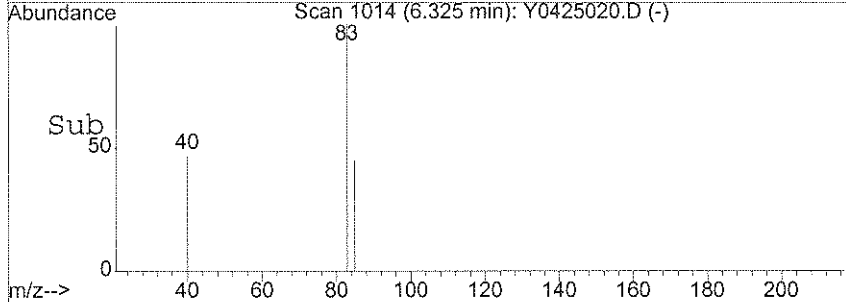
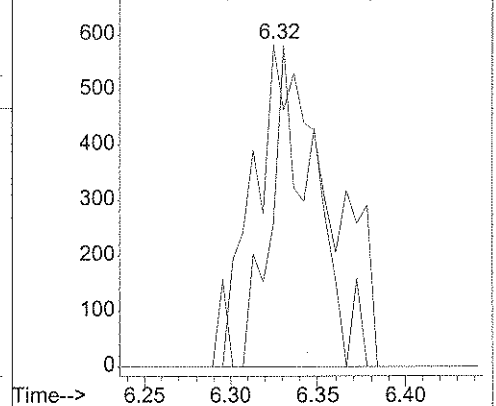


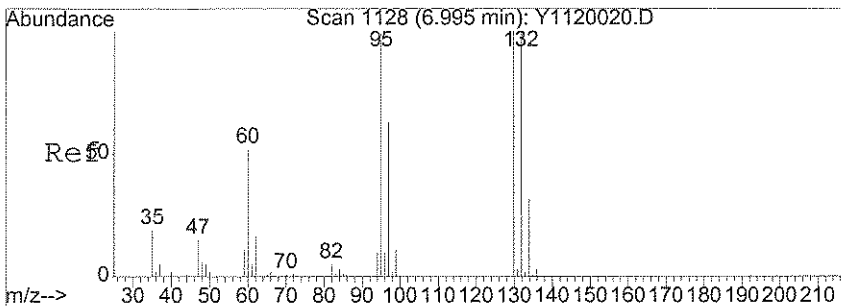
#34
 Chloroform
 Concen: 0.28 ug/l m
 RT: 6.32 min Scan# 1014
 Delta R.T. -0.01 min
 Lab File: Y0425020.D
 Acq: 25 Apr 2008 15:08

Tgt Ion: 83 Resp: 1736
 Ion Ratio Lower Upper
 83 100
 85 57.6 43.3 83.3



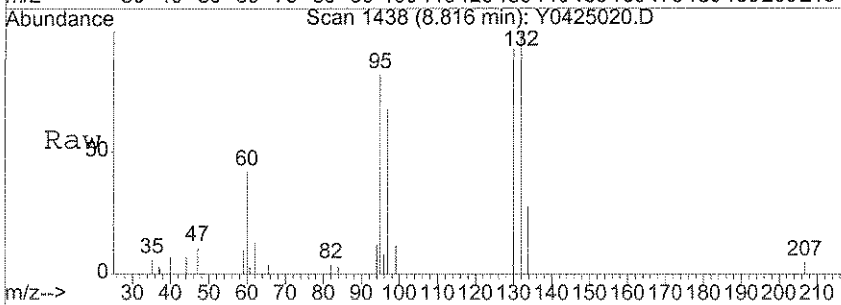
Abundance Ion 83.00 (82.70 to 83.70): Y0425020.D
 Ion 85.00 (84.70 to 85.70): Y0425020.D



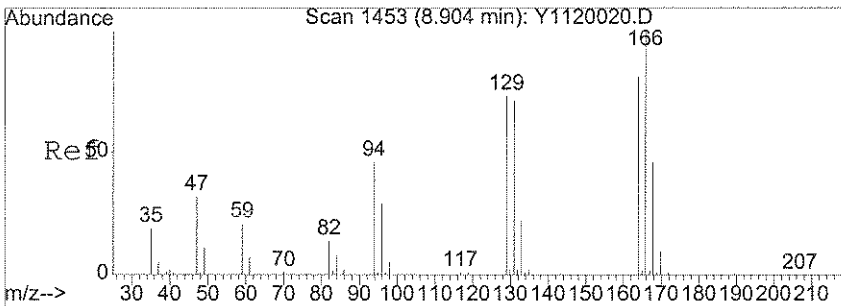
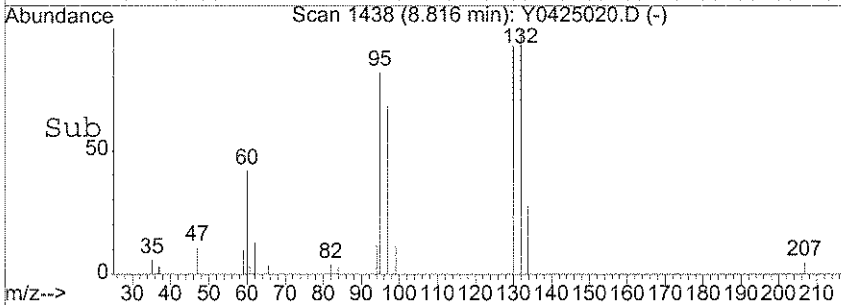
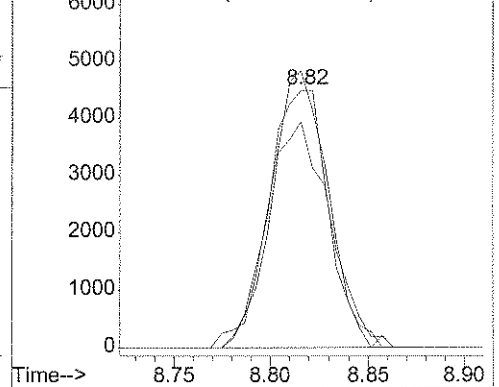


#45
 Trichloroethene
 Concen: 2.92 ug/l
 RT: 8.82 min Scan# 1438
 Delta R.T. 0.00 min
 Lab File: Y0425020.D
 Acq: 25 Apr 2008 15:08

Tgt Ion	Resp	Lower	Upper
130	9629		
132	103.4	75.0	115.0
95	89.1	69.4	109.4

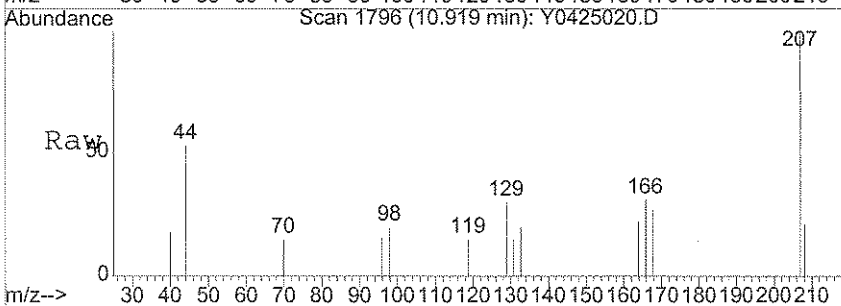


Abundance
 Ion 130.00 (129.70 to 130.70): Y042502
 Ion 132.00 (131.70 to 132.70): Y042502
 Ion 95.00 (94.70 to 95.70): Y0425020.D

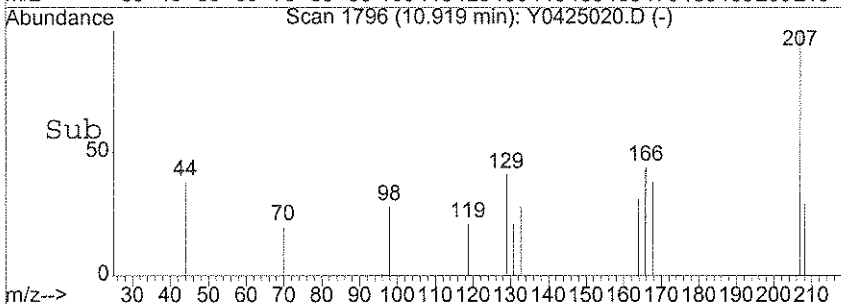
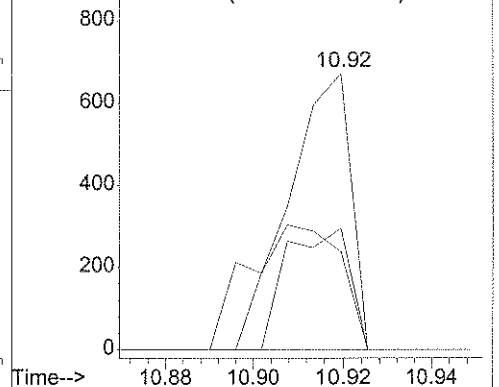


#60
 Tetrachloroethene
 Concen: 0.18 ug/l
 RT: 10.92 min Scan# 1796
 Delta R.T. 0.01 min
 Lab File: Y0425020.D
 Acq: 25 Apr 2008 15:08

Tgt Ion	Resp	Lower	Upper
166	636		
164	68.1	63.3	94.9
168	44.7	39.6	59.4



Abundance
 Ion 165.95 (165.65 to 166.65): Y042502
 Ion 163.95 (163.65 to 164.65): Y042502
 Ion 167.95 (167.65 to 168.65): Y042502



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-01-04/22/08

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-006
 Lab File ID: Y0425021.D
 Date Collected: 04/22/2008
 Date/Time Analyzed: 04/25/2008 15:33
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-01-04/22/08

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-006
 Lab File ID: Y0425021.D
 Date Collected: 04/22/2008
 Date/Time Analyzed: 04/25/2008 15:33
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-01-04/22/08

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-006
 Lab File ID: Y0425021.D
 Date Collected: 04/22/2008
 Date/Time Analyzed: 04/25/2008 15:33
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

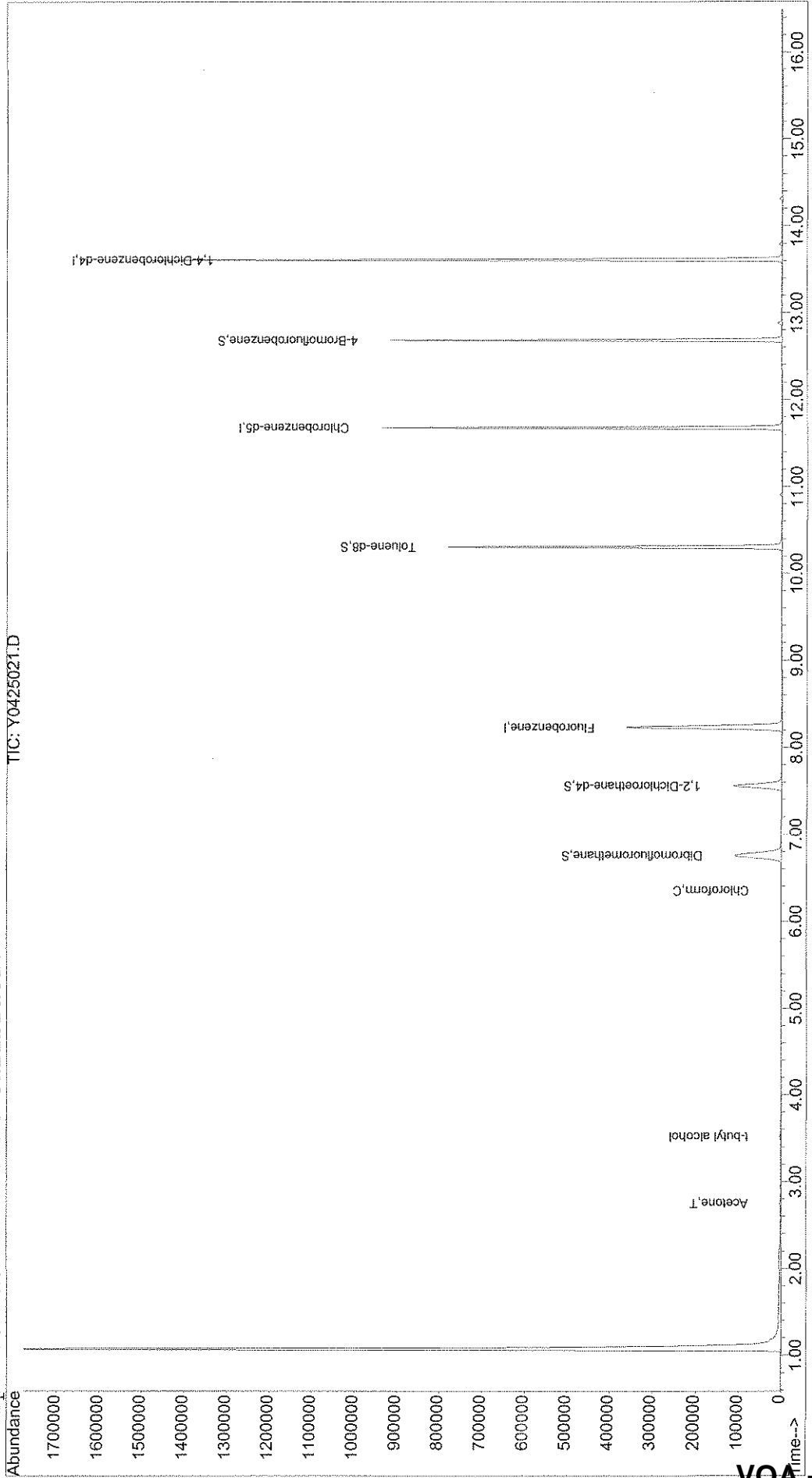
Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425021.D
Acq On : 25 Apr 2008 15:33
Sample : JPL98-006
Misc : #2 5mL+IS/SS(MV8-45-10) (524)
MS Integration Params: rteint.p
Quant Time: Apr 28 8:02 2008
Quant Results File: Y8260W.RES

Vial: 16
Operator: LPM
Inst : Yoda
Multiplr: 1.00

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425021.D
 Acq On : 25 Apr 2008 15:33
 Sample : JPL98-006
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:02 2008

Vial: 16
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	430242	50.00	ug/l	0.00	84.26%
54) Chlorobenzene-d5	11.68	82	229004	50.00	ug/l	0.00	93.62%
74) 1,4-Dichlorobenzene-d4	13.61	152	318030	50.00	ug/l	0.00	90.75%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	143883	51.12	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	102.24%	
40) 1,2-Dichloroethane-d4	7.56	65	135811	50.52	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.04%	
55) Toluene-d8	10.30	98	468758	47.27	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	94.54%	
76) 4-Bromofluorobenzene	12.68	95	212731	51.45	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	102.90%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	72	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.76	43	3516	3.44	ug/l	99
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	56	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.26	84	127	Below Cal	#	25
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	3.52	59	3281	10.89	ug/l	# 72
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

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

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425021.D
 Acq On : 25 Apr 2008 15:33
 Sample : JPL98-006
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:02 2008

Vial: 16
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	5.40	77	53		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	5.62	43	91		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.35	83	1137	0.18	ug/l #	63
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.63	78	117		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D. d	
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	8.83	130	55		N.D.	
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	9.34	41	62		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	10.17	43	213		N.D.	
56) Toluene	0.00	92	0		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.71	97	53		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	0.00	43	0		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.69	112	194		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D. d	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

Handwritten signature

(#) = qualifier out of range (m) = manual integration
 Y0425021.D Y8260W.M Mon Apr 28 08:02:54 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425021.D
 Acq On : 25 Apr 2008 15:33
 Sample : JPL98-006
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:02 2008

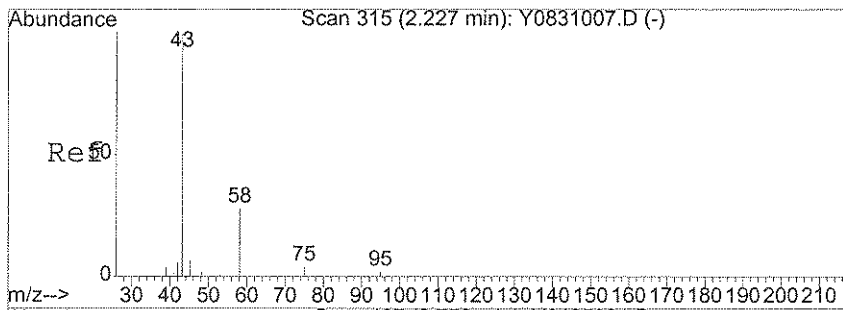
Vial: 16
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

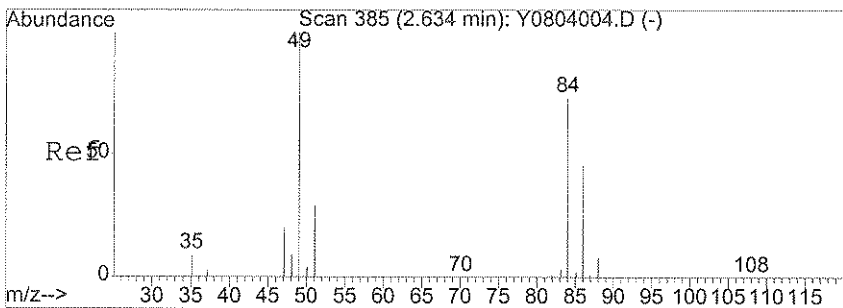
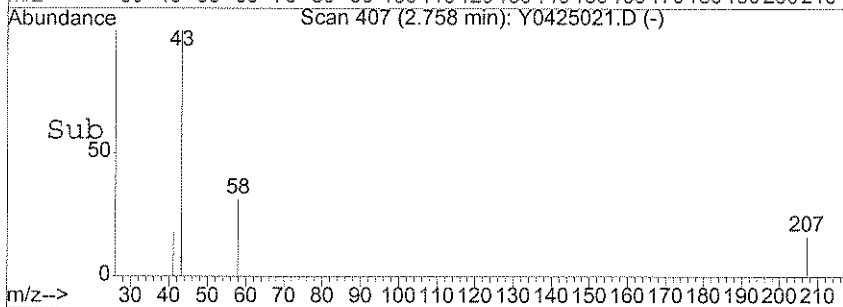
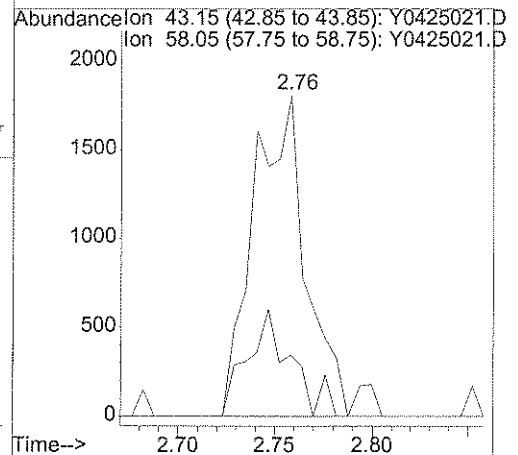
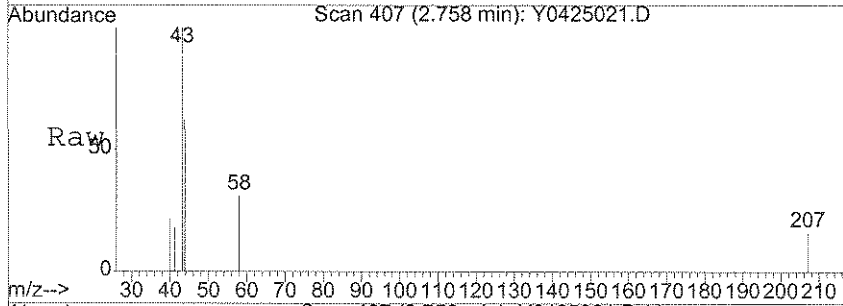
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.82	91	69		N.D.	
69) m,p-Xylene	11.91	106	168		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	12.29	104	55		N.D.	
72) Bromoform	12.69	173	149		N.D.	
73) Isopropylbenzene	12.56	105	93		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	135		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	13.04	120	131		N.D.	
81) 2-Chlorotoluene	12.69	91	170		N.D.	
82) 4-Chlorotoluene	0.00	91	0		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	76		N.D.	
88) 4-Isopropyltoluene	13.59	119	90		N.D.	
89) 1,4-Dichlorobenzene	13.56	146	76		N.D.	
90) 1,2-Dichlorobenzene	0.00	146	0		N.D.	
91) n-Butylbenzene	13.91	91	190		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.32	75	54		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	86		N.D.	
94) Hexachlorobutadiene	15.30	225	63		N.D.	
95) Naphthalene	15.36	128	439		N.D.	
96) 1,2,3-Trichlorobenzene	15.55	180	124		N.D.	

4/28/08 LPM



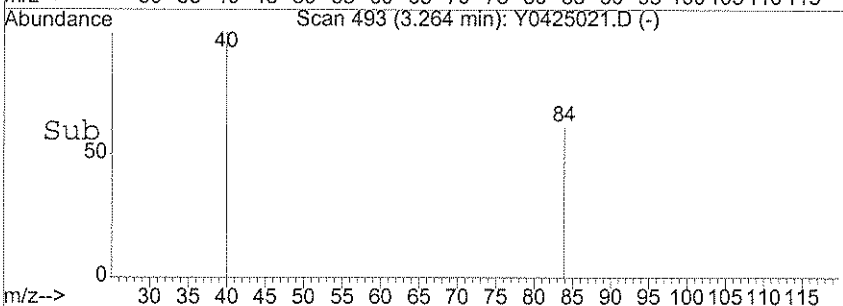
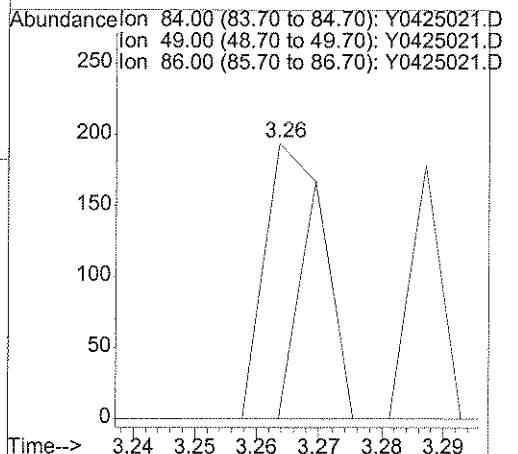
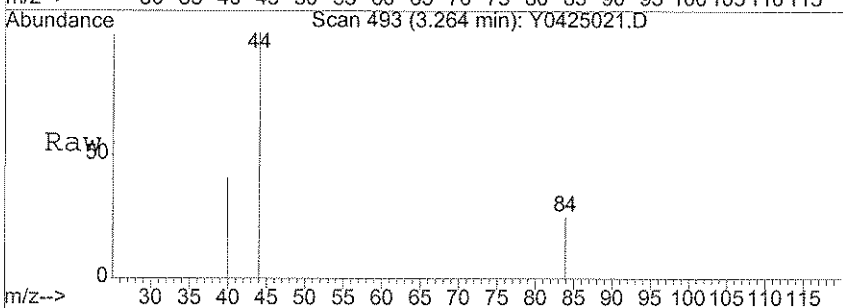
#11
 Acetone
 Concen: 3.44 ug/l
 RT: 2.76 min Scan# 407
 Delta R.T. 0.02 min
 Lab File: Y0425021.D
 Acq: 25 Apr 2008 15:33

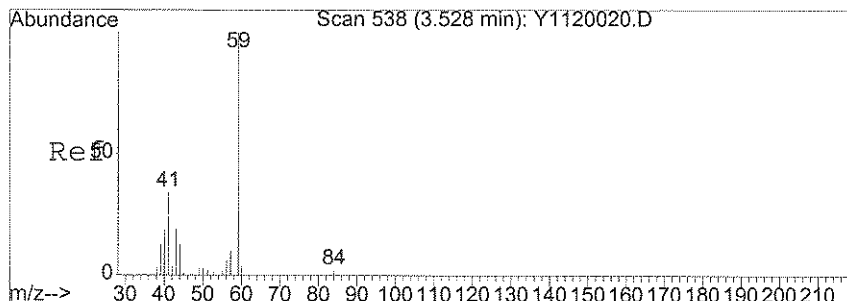
Tgt Ion	Resp	Lower	Upper
43	3516		
58	27.2	21.3	31.9



#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.26 min Scan# 493
 Delta R.T. -0.01 min
 Lab File: Y0425021.D
 Acq: 25 Apr 2008 15:33

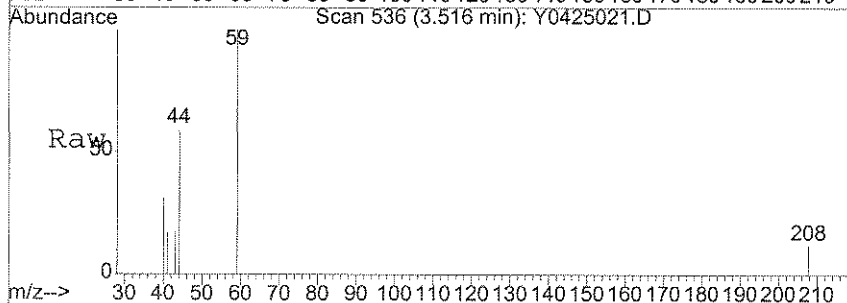
Tgt Ion	Resp	Lower	Upper
84	127		
49	46.5	112.5	152.5#
86	0.0	39.5	79.5#



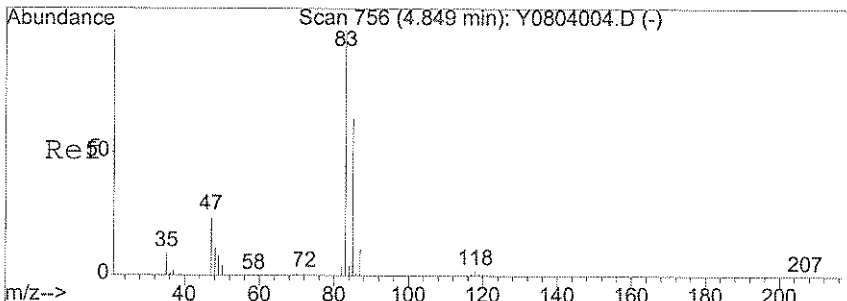
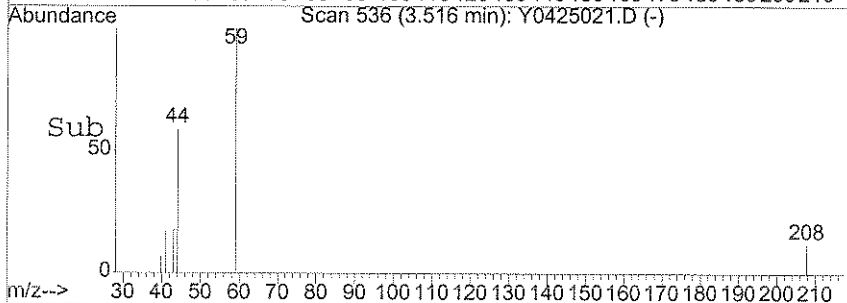
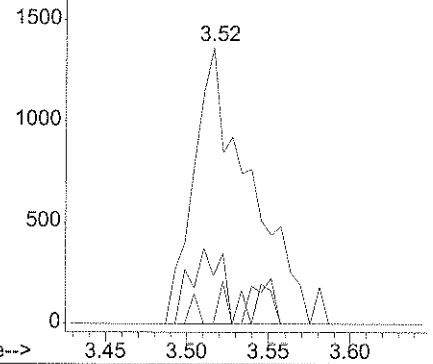


#21
 t-butyl alcohol
 Concen: 10.89 ug/l
 RT: 3.52 min Scan# 536
 Delta R.T. -0.01 min
 Lab File: Y0425021.D
 Acq: 25 Apr 2008 15:33

Tgt Ion	Resp	Lower	Upper
59	3281		
41	17.0	27.4	41.0#
57	2.3	7.8	11.8#

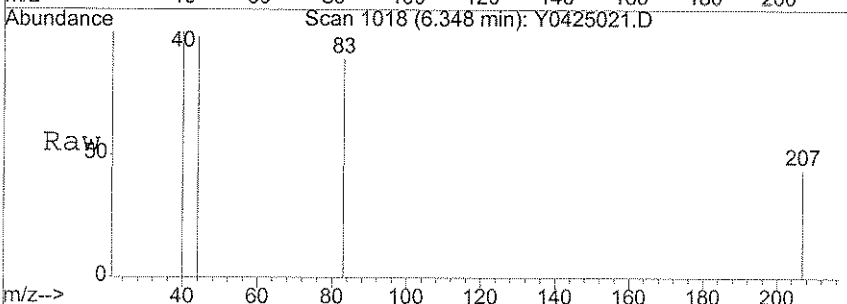


Abundance
 Ion 59.10 (58.80 to 59.80): Y0425021.D
 Ion 41.10 (40.80 to 41.80): Y0425021.D
 Ion 57.10 (56.80 to 57.80): Y0425021.D

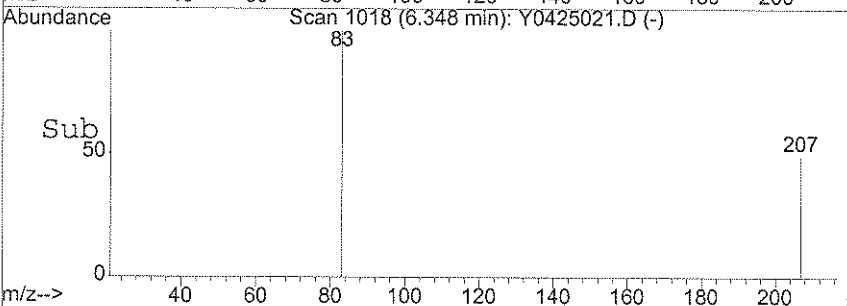
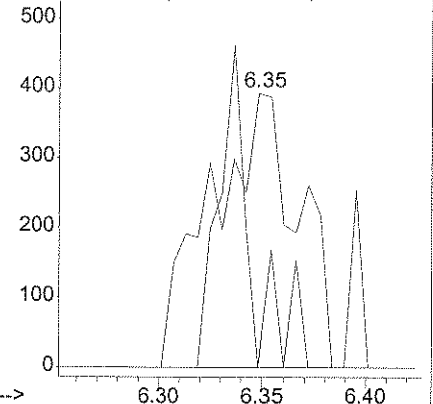


#34
 Chloroform
 Concen: 0.18 ug/l
 RT: 6.35 min Scan# 1018
 Delta R.T. 0.01 min
 Lab File: Y0425021.D
 Acq: 25 Apr 2008 15:33

Tgt Ion	Resp	Lower	Upper
83	1137		
85	34.4	43.3	83.3#



Abundance
 Ion 83.00 (82.70 to 83.70): Y0425021.D
 Ion 85.00 (84.70 to 85.70): Y0425021.D



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-01-04/22/08

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-007
 Lab File ID: Y0425015.D
 Date Collected: 04/22/2008
 Date/Time Analyzed: 04/25/2008 12:55
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-01-04/22/08

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-007
 Lab File ID: Y0425015.D
 Date Collected: 04/22/2008
 Date/Time Analyzed: 04/25/2008 12:55
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-01-04/22/08

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-007
 Lab File ID: Y0425015.D
 Date Collected: 04/22/2008
 Date/Time Analyzed: 04/25/2008 12:55
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

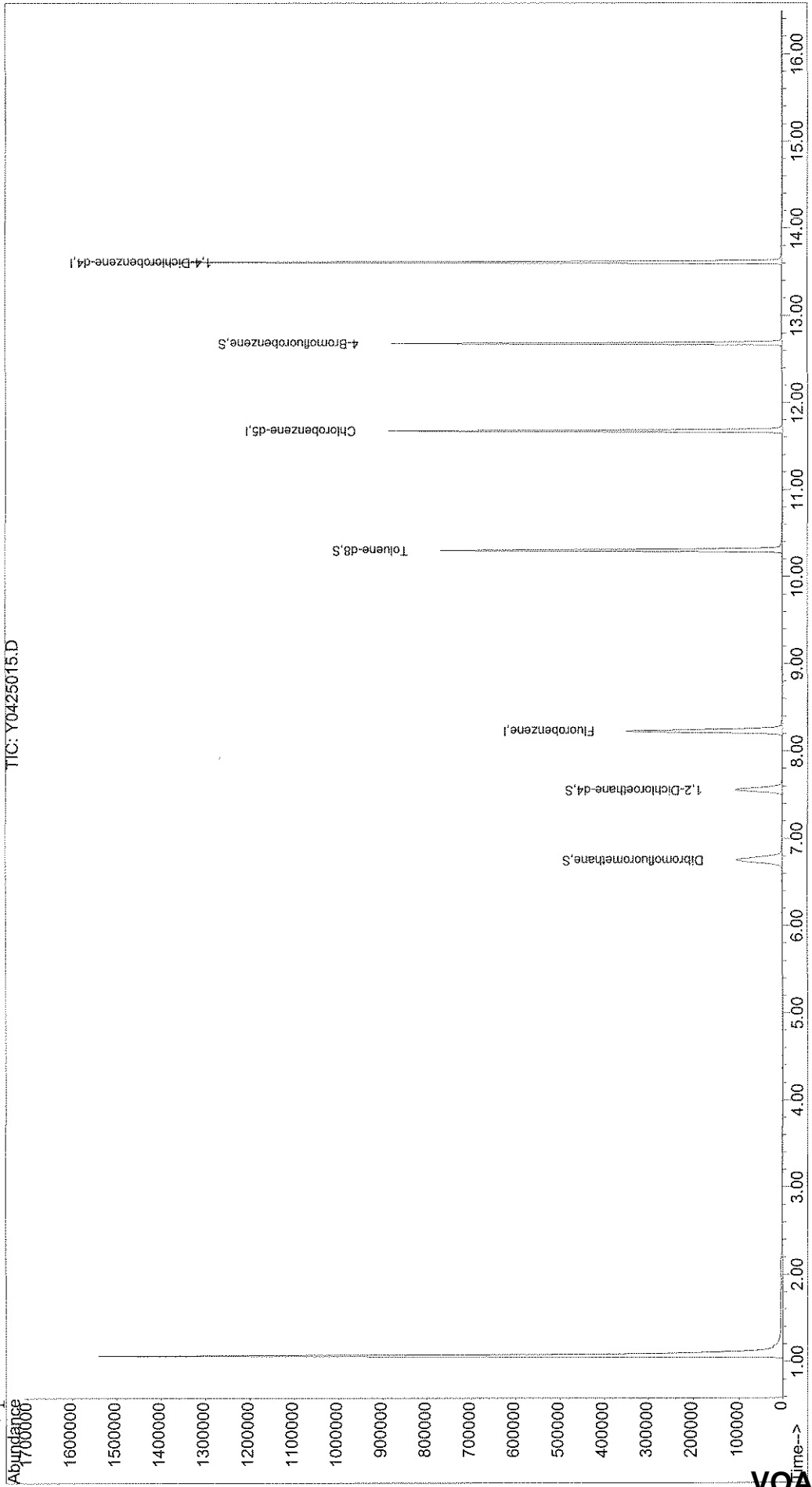
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425015.D Vial: 10
Acq On : 25 Apr 2008 12:55 Operator: LPM
Sample : JPL98-007 Inst : Yoda
Misc : #3 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 6:50 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425015.D
 Acq On : 25 Apr 2008 12:55
 Sample : JPL98-007
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 6:50 2008

Vial: 10
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	415327	50.00	ug/l	0.00 81.34%
54) Chlorobenzene-d5	11.68	82	221723	50.00	ug/l	0.00 90.65%
74) 1,4-Dichlorobenzene-d4	13.61	152	314453	50.00	ug/l	0.00 89.73%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	138091	50.83	ug/l	0.00
Spiked Amount	50.000	Range 85 - 115	Recovery	=	101.66%	
40) 1,2-Dichloroethane-d4	7.56	65	130035	50.11	ug/l	0.00
Spiked Amount	50.000	Range 70 - 120	Recovery	=	100.22%	
55) Toluene-d8	10.30	98	449996	46.87	ug/l	0.00
Spiked Amount	50.000	Range 85 - 120	Recovery	=	93.74%	
76) 4-Bromofluorobenzene	12.68	95	206274	50.46	ug/l	0.00
Spiked Amount	50.000	Range 75 - 120	Recovery	=	100.92%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	0.00	50	0	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	0.00	43	0	N.D.	d	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.91	76	136	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.27	84	455	Below Cal		92
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

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

Y0425015.D Y8260W.M Mon Apr 28 07:09:01 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425015.D
 Acq On : 25 Apr 2008 12:55
 Sample : JPL98-007
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 6:50 2008

Vial: 10
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	0.00	43	0		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.68	78	67		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.37	92	185		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.71	97	56		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	0.00	43	0		N.D.	d
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	0.00	112	0		N.D.	
66) 1-Chlorohexane	11.71	91	58		N.D.	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

4/28/08 LPM

(#) = qualifier out of range (m) = manual integration
 Y0425015.D Y8260W.M Mon Apr 28 07:09:02 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425015.D
 Acq On : 25 Apr 2008 12:55
 Sample : JPL98-007
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 6:50 2008

Vial: 10
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	56		N.D.	
69) m,p-Xylene	11.91	106	57		N.D.	
70) o-xylene	12.24	106	120		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.56	105	102		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	262		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.81	83	57		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.99	91	64		N.D.	
82) 4-Chlorotoluene	13.05	91	74		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	193		N.D.	
88) 4-Isopropyltoluene	13.59	119	497		N.D.	
89) 1,4-Dichlorobenzene	13.62	146	263		N.D.	
90) 1,2-Dichlorobenzene	13.62	146	263		N.D.	
91) n-Butylbenzene	13.91	91	347		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.82	75	67		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	237		N.D.	
94) Hexachlorobutadiene	15.30	225	245		N.D.	
95) Naphthalene	15.36	128	156		N.D.	
96) 1,2,3-Trichlorobenzene	15.17	180	237		N.D.	

4/28/08

TIC ANALYSIS

SDG #JPL98

Volatiles Analysis

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-14-5

Lab Name: Pace Analytical Services

SDG No.: JPL98

Matrix: (SOIL/WATER) Water

Sample wt/vol: 5.00 (g/mL) mL

Level: (LOW/MED) _____

% Moisture: not dec. _____

GC Column: DB-624 20m ID: 0.18 (mm)

Soil Extract Volume: _____ (uL)

Number TICs Found: 0

Contract: JPL Groundwater Monitorin

Run Sequence: R027585

Lab Sample ID: JPL98-001

Lab File ID: Y0425016.D

Date Collected: 04/22/2008

Date Analyzed: 04/25/2008

Dilution Factor: 1.0

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042508\Y0425016.D Vial: 11
Acq On : 25 Apr 2008 13:20 Operator: LPM
Sample : JPL98-001 Inst : yoda
Misc : #4 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0425016.D Y8260W.M Mon Apr 28 07:12:29 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-14-4

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-002
 Lab File ID: Y0425017.D
 Date Collected: 04/22/2008
 Date Analyzed: 04/25/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
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04				
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042508\Y0425017.D Vial: 12
Acq On : 25 Apr 2008 13:45 Operator: LPM
Sample : JPL98-002 Inst : yoda
Misc : #2 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0425017.D Y8260W.M Mon Apr 28 07:58:38 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-14-3

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-003
 Lab File ID: Y0425018.D
 Date Collected: 04/22/2008
 Date Analyzed: 04/25/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042508\Y0425018.D Vial: 13
Acq On : 25 Apr 2008 14:09 Operator: LPM
Sample : JPL98-003 Inst : yoda
Misc : #2 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0425018.D Y8260W.M Mon Apr 28 08:00:03 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-14-2

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL98

Run Sequence: R027585

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL98-004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0425019.D

Level: (LOW/MED) _____

Date Collected: 04/22/2008

% Moisture: not dec. _____

Date Analyzed: 04/25/2008

GC Column: DB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042508\Y0425019.D Vial: 14
Acq On : 25 Apr 2008 14:43 Operator: LPM
Sample : JPL98-004 Inst : yoda
Misc : #4 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0425019.D Y8260W.M Mon Apr 28 08:00:53 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-14-1

Lab Name: Pace Analytical Services

SDG No.: JPL98

Matrix: (SOIL/WATER) Water

Sample wt/vol: 5.00 (g/mL) mL

Level: (LOW/MED) _____

% Moisture: not dec. _____

GC Column: DB-624 20m ID: 0.18 (mm)

Soil Extract Volume: _____ (uL)

Number TICs Found: 0

Contract: JPL Groundwater Monitorin

Run Sequence: R027585

Lab Sample ID: JPL98-005

Lab File ID: Y0425020.D

Date Collected: 04/22/2008

Date Analyzed: 04/25/2008

Dilution Factor: 1.0

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042508\Y0425020.D Vial: 15
Acq On : 25 Apr 2008 15:08 Operator: LPM
Sample : JPL98-005 Inst : yoda
Misc : #4 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0425020.D Y8260W.M Mon Apr 28 08:02:03 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-01-04/22/08

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL98-006
 Lab File ID: Y0425021.D
 Date Collected: 04/22/2008
 Date Analyzed: 04/25/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042508\Y0425021.D Vial: 16
Acq On : 25 Apr 2008 15:33 Operator: LPM
Sample : JPL98-006 Inst : yoda
Misc : #2 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0425021.D Y8260W.M Mon Apr 28 08:03:01 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-01-04/22/08

Lab Name: Pace Analytical Services

SDG No.: JPL98

Matrix: (SOIL/WATER) Water

Sample wt/vol: 5.00 (g/mL) mL

Level: (LOW/MED) _____

% Moisture: not dec. _____

GC Column: DB-624 20m ID: 0.18 (mm)

Soil Extract Volume: _____ (uL)

Number TICs Found: 0

Contract: JPL Groundwater Monitorin

Run Sequence: R027585

Lab Sample ID: JPL98-007

Lab File ID: Y0425015.D

Date Collected: 04/22/2008

Date Analyzed: 04/25/2008

Dilution Factor: 1.0

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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02					
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042508\Y0425015.D Vial: 10
Acq On : 25 Apr 2008 12:55 Operator: LPM
Sample : JPL98-007 Inst : yoda
Misc : #3 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0425015.D Y8260W.M Mon Apr 28 07:10:21 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B042508MVOWY1

Lab Name: Pace Analytical Services
 SDG No.: JPL98
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: B042508MVOWY1
 Lab File ID: Y0425010.D
 Date Collected: _____
 Date Analyzed: 04/25/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042508\Y0425010.D Vial: 5
Acq On : 25 Apr 2008 10:51 Operator: LPM
Sample : B042508MVOWY1 Inst : yoda
Misc : 5mL PFW+IS/SS(MV8-45-10) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0425010.D Y8260W.M Mon Apr 28 10:17:32 2008

Metals Data

JPL98

COVER PAGE-INORGANIC ANALYSES DATA PACKAGE

Lab Name: Pace Analytical Services, Inc.

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL98

SOW No.: _____

Sample No.	Lab Sample ID
MW-14-5	JPL98-001
MW-14-4	JPL98-002
MW-14-3	JPL98-003
MW-14-2	JPL98-004
MW-14-2MS	JPL98-004MS
MW-14-2MSD	JPL98-004MSD
MW-14-1	JPL98-005
EB-01-04/22/08	JPL98-006

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No NO

If yes-was raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is technically complete, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Bill Ambacher

Name: Bill Ambacher

Date: 6/4/08

Title: Inorganics Technical Director

Metals Analysis Data Sheets

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-14-5

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL98

Matrix (soil/water): Water

Lab Sample ID: JPL98-001

Level (low/med): LOW

Date Received: 04/23/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.31			M	R027854
7440-70-2	Calcium	16000			P	R027979
7440-47-3	Chromium	5.47			M	R027854
7439-89-6	Iron	205			P	R027979
7439-92-1	Lead	1.00	U		M	R027854
7439-95-4	Magnesium	12300			P	R027979
7440-09-7	Potassium	5000	U		P	R027979
7440-23-5	Sodium	33400			P	R027979

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/4/2008 8:15

SW-846

-1-

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-14-4

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL98

Matrix (soil/water): Water

Lab Sample ID: JPL98-002

Level (low/med): LOW

Date Received: 04/23/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R027854
7440-70-2	Calcium	57700			P	R027979
7440-47-3	Chromium	8.70			M	R027854
7439-89-6	Iron	100	U		P	R027979
7439-92-1	Lead	1.00	U		M	R027854
7439-95-4	Magnesium	20600			P	R027979
7440-09-7	Potassium	5000	U		P	R027979
7440-23-5	Sodium	32700			P	R027979

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/4/2008 8:15

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-14-3

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL98

Matrix (soil/water): Water

Lab Sample ID: JPL98-003

Level (low/med): LOW

Date Received: 04/23/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R027854
7440-70-2	Calcium	113000			P	R027979
7440-47-3	Chromium	9.01			M	R027854
7439-89-6	Iron	100	U		P	R027979
7439-92-1	Lead	1.00	U		M	R027854
7439-95-4	Magnesium	48100			P	R027979
7440-09-7	Potassium	5000	U		P	R027979
7440-23-5	Sodium	44400			P	R027979

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/4/2008 8:15

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-14-2

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL98

Matrix (soil/water): Water

Lab Sample ID: JPL98-004

Level (low/med): LOW

Date Received: 04/23/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028099
7440-70-2	Calcium	142000			P	R027979
7440-47-3	Chromium	1.00	U		M	R028099
7439-89-6	Iron	100	U		P	R027979
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	50700			P	R027979
7440-09-7	Potassium	5000	U		P	R027979
7440-23-5	Sodium	40000			P	R027979

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/4/2008 8:15

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-14-1

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL98

Matrix (soil/water): Water

Lab Sample ID: JPL98-005

Level (low/med): LOW

Date Received: 04/23/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R027854
7440-70-2	Calcium	123000			P	R027979
7440-47-3	Chromium	9.22			M	R027854
7439-89-6	Iron	133			P	R027979
7439-92-1	Lead	1.00	U		M	R027854
7439-95-4	Magnesium	41400			P	R027979
7440-09-7	Potassium	5000	U		P	R027979
7440-23-5	Sodium	62500			P	R027979

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/4/2008 8:15

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-01-04/22/08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL98

Matrix (soil/water): Water

Lab Sample ID: JPL98-006

Level (low/med): LOW

Date Received: 04/23/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R027854
7440-70-2	Calcium	5000	U		P	R027979
7440-47-3	Chromium	1.03			M	R027854
7439-89-6	Iron	100	U		P	R027979
7439-92-1	Lead	1.00	U		M	R027854
7439-95-4	Magnesium	5000	U		P	R027979
7440-09-7	Potassium	5000	U		P	R027979
7440-23-5	Sodium	5000	U		P	R027979

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/4/2008 8:15

Miscellaneous Inorganic Data

JPL98

COVER PAGE-INORGANIC ANALYSES DATA PACKAGE

Lab Name: Pace Analytical Services, Inc.

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL98

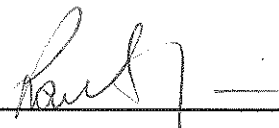
SOW No.: _____

<u>Sample No.</u>
<u>MW-14-5</u>
<u>MW-14-4</u>
<u>MW-14-3</u>
<u>MW-14-2</u>
<u>MW-14-1</u>
<u>EB-01-04/22/08</u>

<u>Lab Sample ID</u>
<u>JPL98-001</u>
<u>JPL98-002</u>
<u>JPL98-003</u>
<u>JPL98-004</u>
<u>JPL98-005</u>
<u>JPL98-006</u>

Comments:

I certify that this data package is technically complete, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: 

Name: Raul J. Nino

Date: May 28, 2008

Title: Inorganic Supervisor

Inorganic Analysis Data Sheets

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL98
Sample Number: MW-14-5 **Date/Time Collected:** 04/22/2008 08:41
Lab Sample ID: JPL98-001 **Date/Time Received:** 04/23/2008 08:30

Method/Qbatch*: E150.1/28719 **Unit:** pH Units
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	8.3		0.10	0.10	04/23/2008	04/23/2008	R027541

Method/Qbatch*: E160.1/28755 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	170		2.0	2.0	04/25/2008	04/29/2008	R027568

Method/Qbatch*: E300.0/28711 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027530\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.20	U	0.20	0.055	04/23/2008	04/24/2008	R027530
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/23/2008	04/24/2008	R027530
Sulfate as SO4	14808-79-8	1	18		1.0	0.17	04/23/2008	04/24/2008	R027530
Chloride	16887-00-6	10	10		10	0.76	04/23/2008	04/24/2008	R027530
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/23/2008	04/24/2008	R027530

Method/Qbatch*: E310.1/28931 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	16		2.0	2.0	05/01/2008	05/01/2008	R027737
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	120		2.0	2.0	05/01/2008	05/01/2008	R027737

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring
SDG Number: JPL98
Sample Number: MW-14-5 Date/Time Collected: 04/22/2008 08:41
Lab Sample ID: JPL98-001 Date/Time Received: 04/23/2008 08:30
Method/Qbatch*: E314.0/29035 Unit: ug/L
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	05/02/2008	05/05/2008	R027833

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL98
Sample Number: MW-14-4 **Date/Time Collected:** 04/22/2008 09:25
Lab Sample ID: JPL98-002 **Date/Time Received:** 04/23/2008 08:30

Method/Qbatch*: E150.1/28719 **Unit:** pH Units
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.8		0.10	0.10	04/23/2008	04/23/2008	R027541

Method/Qbatch*: E160.1/28755 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	350		2.0	2.0	04/25/2008	04/29/2008	R027568

Method/Qbatch*: E300.0/28711 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027530\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	10	10		2.0	0.55	04/23/2008	04/24/2008	R027530
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/23/2008	04/24/2008	R027530
Sulfate as SO4	14808-79-8	10	41		10	1.7	04/23/2008	04/24/2008	R027530
Chloride	16887-00-6	10	48		10	0.76	04/23/2008	04/24/2008	R027530
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/23/2008	04/24/2008	R027530

Method/Qbatch*: E310.1/28931 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/01/2008	05/01/2008	R027737
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	150		2.0	2.0	05/01/2008	05/01/2008	R027737

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL98
Sample Number: MW-14-4 **Date/Time Collected:** 04/22/2008 09:25
Lab Sample ID: JPL98-002 **Date/Time Received:** 04/23/2008 08:30
Method/Qbatch*: E314.0/29035 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	3.3		2.0	0.28	05/02/2008	05/05/2008	R027833

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL98
Sample Number: MW-14-3 **Date/Time Collected:** 04/22/2008 10:08
Lab Sample ID: JPL98-003 **Date/Time Received:** 04/23/2008 08:30

Method/Qbatch*: E150.1/28719 **Unit:** pH Units
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.6		0.10	0.10	04/23/2008	04/23/2008	R027541

Method/Qbatch*: E160.1/28755 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	670		2.0	2.0	04/25/2008	04/29/2008	R027568

Method/Qbatch*: E300.0/28711 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027530\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	20	14		4.0	1.1	04/23/2008	04/24/2008	R027530
Nitrite - N	14797-65-0	20	2.0	U	2.0	0.34	04/23/2008	04/24/2008	R027530
Sulfate as SO4	14808-79-8	20	170		20	3.4	04/23/2008	04/24/2008	R027530
Chloride	16887-00-6	20	120		20	1.5	04/23/2008	04/24/2008	R027530
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/23/2008	04/24/2008	R027530

Method/Qbatch*: E310.1/28931 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/01/2008	05/01/2008	R027737
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	220		2.0	2.0	05/01/2008	05/01/2008	R027737

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring
SDG Number: JPL98
Sample Number: MW-14-3 Date/Time Collected: 04/22/2008 10:08
Lab Sample ID: JPL98-003 Date/Time Received: 04/23/2008 08:30
Method/Qbatch*: E314.0/29035 Unit: ug/L
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.2		4.0	0.56	05/02/2008	05/05/2008	R027833

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL98
Sample Number: MW-14-2 **Date/Time Collected:** 04/22/2008 10:52
Lab Sample ID: JPL98-004 **Date/Time Received:** 04/23/2008 08:30

Method/Qbatch*: E150.1/28719 **Unit:** pH Units
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.5		0.10	0.10	04/23/2008	04/23/2008	R027541

Method/Qbatch*: E160.1/28755 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	790		2.0	2.0	04/25/2008	04/29/2008	R027568

Method/Qbatch*: E300.0/28711 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027530\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	20	14		4.0	1.1	04/23/2008	04/24/2008	R027530
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/23/2008	04/24/2008	R027530
Sulfate as SO4	14808-79-8	20	210		20	3.4	04/23/2008	04/24/2008	R027530
Chloride	16887-00-6	20	140		20	1.5	04/23/2008	04/24/2008	R027530
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/23/2008	04/24/2008	R027530

Method/Qbatch*: E310.1/28931 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/01/2008	05/01/2008	R027737
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	260		2.0	2.0	05/01/2008	05/01/2008	R027737

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring
SDG Number: JPL98
Sample Number: MW-14-2 Date/Time Collected: 04/22/2008 10:52
Lab Sample ID: JPL98-004 Date/Time Received: 04/23/2008 08:30
Method/Qbatch*: E314.0/29035 Unit: ug/L
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	05/02/2008	05/05/2008	R027833

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL98
Sample Number: MW-14-1 **Date/Time Collected:** 04/22/2008 00:16
Lab Sample ID: JPL98-005 **Date/Time Received:** 04/23/2008 08:30

Method/Qbatch*: E150.1/28719 **Unit:** pH Units
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	6.5		0.10	0.10	04/23/2008	04/23/2008	R027541

Method/Qbatch*: E160.1/28755 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	780		2.0	2.0	04/25/2008	04/29/2008	R027568

Method/Qbatch*: E300.0/28711 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027530\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	20	15		4.0	1.1	04/23/2008	04/24/2008	R027530
Nitrite - N	14797-65-0	20	2.0	U	2.0	0.34	04/23/2008	04/24/2008	R027530
Sulfate as SO4	14808-79-8	20	210		20	3.4	04/23/2008	04/24/2008	R027530
Chloride	16887-00-6	20	150		20	1.5	04/23/2008	04/24/2008	R027530
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/23/2008	04/24/2008	R027530

Method/Qbatch*: E310.1/28931 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/01/2008	05/01/2008	R027737
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	190		2.0	2.0	05/01/2008	05/01/2008	R027737

*QBatch=QC/Preparation Batch

FORM LTL-RSR-27.0

Date Printed: 5/14/2008 8:42

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Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring
SDG Number: JPL98
Sample Number: MW-14-1 Date/Time Collected: 04/22/2008 00:16
Lab Sample ID: JPL98-005 Date/Time Received: 04/23/2008 08:30
Method/Qbatch*: E314.0/29035 Unit: ug/L
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.1		4.0	0.56	05/02/2008	05/05/2008	R027833

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL98
Sample Number: EB-01-04/22/08 **Date/Time Collected:** 04/22/2008 11:20
Lab Sample ID: JPL98-006 **Date/Time Received:** 04/23/2008 08:30

Method/Qbatch*: E150.1/28719 **Unit:** pH Units
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	6.9		0.10	0.10	04/23/2008	04/23/2008	R027541

Method/Qbatch*: E160.1/28755 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	2.0	U	2.0	2.0	04/25/2008	04/29/2008	R027568

Method/Qbatch*: E300.0/28711 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027530\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.20	U	0.20	0.055	04/23/2008	04/24/2008	R027530
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/23/2008	04/24/2008	R027530
Sulfate as SO4	14808-79-8	1	1.0	U	1.0	0.17	04/23/2008	04/24/2008	R027530
Chloride	16887-00-6	1	1.0	U	1.0	0.076	04/23/2008	04/24/2008	R027530
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/23/2008	04/24/2008	R027530

Method/Qbatch*: E310.1/28931 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/01/2008	05/01/2008	R027737
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	4.0		2.0	2.0	05/01/2008	05/01/2008	R027737

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring
SDG Number: JPL98
Sample Number: EB-01-04/22/08 Date/Time Collected: 04/22/2008 11:20
Lab Sample ID: JPL98-006 Date/Time Received: 04/23/2008 08:30
Method/Qbatch*: E314.0/29035 Unit: ug/L
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	05/02/2008	05/05/2008	R027833

*QBatch=QC/Preparation Batch

PACE ANALYTICAL SERVICES, INC.

SAMPLE DATA PACKAGE

BATTELLE

SDG NO.: JPL99

June 9, 2008

Pace Analytical Services, Inc.

940 S. Harney
Seattle, WA 98108

To: Battelle
Project Name: JPL Groundwater
SDG No.: JPL99
Date of Report: June 9, 2008

SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:

Sample Receipt and Identification:

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<u>Client Sample Identification</u>	<u>Pace Sample Identification</u>	<u>Testing Analytical Request</u>
MW-22-5	JPL99-001	VOA/MET/INO
MW-22-4	JPL99-002	VOA/MET/INO
MW-22-3	JPL99-003	VOA/MET/INO
MW-22-2	JPL99-004	VOA/MET/INO
MW-22-1	JPL99-005	VOA/MET/INO
EB-02-04/23/08	JPL99-006	VOA/MET/INO
TB-02-04/23/08	JPL99-007	VOA

Analytical Request Key:

VOA = Volatiles (524.2)
MET = Metals (200.7/200.8)
INO = Chloride, Nitrate, Nitrite, Sulfate, Ortho phosphorus (300.0)
Alkalinity (310.1)
Perchlorate (314.0)
Total Dissolved Solids (160.1)
pH (150.1)

Summary of NELAC test accreditation

Determination	NELAC approved
TurMet for 200.7/200.8 TurMet	NO
150.1 pH	YES
160.1 Total Dissolved Solids	YES
200.7 K, Na, Mg, Ca, Fe	YES
200.8 As, Cr, Pb	YES
300.0 NO3, NO2, Cl, SO4, OPO4	YES
310.1M Carb./Bicarb. Alkalinity	YES
314.0 Perchlorate	YES
524.2 Volatile Organics + TICs (JPL Special list)	YES

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Sample Receipt Comments:

Samples MW-22-5 and MW-22-4 were received after the analytical holding time had expired for pH. Samples MW-22-3, MW-22-2, MW-22-1 and EB-02-04/23/08 were received in hold but sample entry did not recognize method 151.1 as pH until after the holding time had expired.

Several samples received for volatiles analysis contained bubbles in the VOA vials less and more than ¼" in size. See the sample receipt logs for documentation.

GENERAL REMARKS ON ORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

Manual Integrations:

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

Holding Time Compliance:

Volatile Organic Compounds:

The holding time is 14 days calculated from the date of collection in both soil and water samples. All samples were analyzed within holding times.

Volatiles Fraction:

Quality Control Analyses:

MS/MSD analyses were performed on a sample not included in this SDG. All analyte recoveries were in control in the blank spike analysis.

All other quality control parameters were met.

GENERAL REMARKS ON INORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

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ICP-MS and ICP Metals:

On the first timed and dated page of each ICP-MS and ICP run, the data to be reported or rejected will be tabulated for that run.

SPECIFIC REMARKS ON INORGANIC ANALYSES:

Holding Time Compliance:

Pace calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None
Chloride	28 days	None
Sulfate	28 days	None
Nitrate	48 hours	None
Nitrite	48 hours	None
Ortho phosphorus	48 hours	None
Alkalinity	14 days	None
Total Dissolved Solids	7 days	None
pH	24 hours	None

ICP Metals:

No comments.

ICP-MS Metals:

For the run sequence R027854, the germanium, scandium and terbium internal standards had recoveries that drifted above the recommended control limit of 125% of the initial calibration standard. This is due to instrument drift which is shown in both the samples and the CCVs. Since the CCV recoveries were within control limits, even with the internal standard drifting beyond 125% of the initial calibration standard, it is assumed that the internal standard is making appropriate corrections to the results. Samples were reported only if the internal standard recovery was within 60-125% of the

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internal standard intensity of the previous CCV. Therefore, no corrective action was taken. Data have been reported as is and have not been flagged for this event.

For the run sequence R027854, more than 10 injections were made between reported QC sets CCV/CCB-5 and CCV/CCB-6. The initial injection for CCV-6 failed and CCV-6 was reinjected as allowed per method. All reported samples were bracketed by passing continuing calibration sets. No further corrective action was required. Data have not been flagged for this event.

Miscellaneous Inorganics:

In the run sequence R027575 for "300.0 Anions", the matrix spike and matrix spike duplicate exceeded the established lower control limit for orthophosphate. Since all of the other quality control samples were in control, no further action was taken.

In the run sequence R027860 for "314.0 Perchlorate", the initial calibration verification, all of the continuing calibration verification standards, and the blank spike exceeded the established upper control limits for this analysis. The only samples being reported from this analysis were samples that had values below the reporting limits.

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ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
 - J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
 - T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
 - E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
 - P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
 - C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
 - ~ This result has been identified as non-primary based on the analyst's professional judgment.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

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INORGANIC ANALYSES:

- J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.
- E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.
- N Spiked sample recovery not within control limits.
- * Duplicate analysis not within control limits.
- Z Denotes data deemed unusable by the analyst.

CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

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RELEASE OF DATA

Pace Analytical Services, Inc. certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

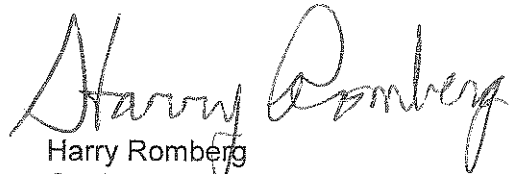
"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,



Kara Godineaux
Project Manager

6/9/08
(DATE)



Harry Romberg
Quality Assurance Officer

6/9/08
(DATE)

HOW TO CONTACT US:

All Pace Analytical Services, Inc. staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

REQUESTS FOR DUPLICATE COPIES:

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Pace will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

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ATTACHMENT A

Chain-of-Custody Copies

PACE ANALYTICAL SERVICES, INC. - SAMPLE CONFIRMATION LOG

Sample #	VTSR	Collected On	Client ID	150.1 pH	160.1 Total Dissolved Solids	200.7 K, Na, Mg, Ca, Fe	200.8 As, Cr, Pb	300.0 NO3, NO2, Cl, SO4, OPO4	310.1M Carb./Bicarb. Alkalinity	314.0 Perchlorate	524.2 Volatile Organics + TICS (JPL Special list)	TurMet for 200.7/200.8 TurMet
WD JPL99-001	04/24/2008 09:45 AM	04/23/2008 08:45 AM	MW-22-5	A-	A-	IN	IN	A-	IN	IN	A-	IN
WD JPL99-002	04/24/2008 09:45 AM	04/23/2008 09:27 AM	MW-22-4	A-	A-	IN	IN	A-	IN	IN	A-	IN
WD JPL99-003	04/24/2008 09:45 AM	04/23/2008 10:06 AM	MW-22-3	A-	A-	IN	IN	A-	IN	IN	A-	IN
WD JPL99-004	04/24/2008 09:45 AM	04/23/2008 10:45 AM	MW-22-2	A-	A-	IN	IN	A-	IN	IN	A-	IN
WD JPL99-005	04/24/2008 09:45 AM	04/23/2008 11:30 AM	MW-22-1	A-	A-	IN	IN	A-	IN	IN	A-	IN
WD JPL99-006	04/24/2008 09:45 AM	04/23/2008 11:10 AM	EB-02-04/23/08	A-	A-	IN	IN	A-	IN	IN	A-	IN
WD JPL99-007	04/24/2008 09:45 AM	04/23/2008 12:00 AM	TB-02-04/23/08								A-	

Approved By: _____ On: _____
 Notes: _____

Samples identified with a '*' client has requested QC for

LEGEND: -:Started , +:Completed , IN:Logged In , P:Preparation , A:Analysis , X:Cancelled, PL:Pre-logged

Matrices: Water=WD

FORM LTL-PM-8.0

Supplemental Sample Receipt Log
Pace Analytical Services, Inc.

SDG: JPL99

Cooler: AAD812

Temperatures: 2.5

COC #: 46071

Sample	Bottle #	Bottle Description	pH	Bubbles
JPL99-001	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	< 1/4
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL99-002	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL99-003	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	< 1/4
	0003	40 ml OTWS, clear glass, HCl	N/C	< 1/4
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL99-004	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL99-005	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL99-006	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL99-007	0001	40 ml OTWS, clear glass, HCl	N/C	> 1/4

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2

Base Preserved pH pH must be greater than 12

NC Not Checked for pH

Supplemental Sample Receipt Log
Face Analytical Services, Inc.

SDG: JPL99

Cooler: AAD812

Temperatures: 2.5

COC #: 46071

Sample	Bottle #	Bottle Description	pH	Bubbles
	0002	40 ml OTWS, clear glass, HCl	N/C	> 1/4

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2

Base Preserved pH pH must be greater than 12

NC Not Checked for pH

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ATTACHMENT B

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Pace Analytical Services, Inc.

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Battelle

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Completed and checked by: Judy Ecklund Date: 6/9/08

QC SUMMARY

SDG JPL99

VOLATILES ANALYSIS

2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL99

Run Sequence: R027585

Level: (LOW/MED) NONE

CLIENT SAMPLE NUMBER	SMC1 (DCA) #	SMC2 (BFB) #	SMC3 (TOL) #	SMC4 () #	TOT OUT
(JPL99-006) EB-02-04/23/08	103	103	96		0
(JPL99-005) MW-22-1	102	103	95		0
(JPL99-004) MW-22-2	104	100	95		0
(JPL99-003) MW-22-3	103	100	93		0
(JPL99-002) MW-22-4	103	100	95		0
(JPL99-001) MW-22-5	102	101	95		0
(JPL99-007) TB-02-04/23/08	103	99	93		0
(B042508MVOWY1) B042508MVOWY1	101	100	96		0
(S042508MVOWY1) S042508MVOWY1	96	103	102		0

SMC1 (DCA) = 1,2-Dichloroethane-d4	QC LIMITS
SMC2 (BFB) = 4-Bromofluorobenzene	60-140
SMC3 (TOL) = Toluene-d8	60-140
SMC4 () =	60-140

Column to be used to flag recovery values
* Values outside of contract required QC limits

3B
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 BS Run Sequence: R027585 SDG No.: JPL99
 BS Lab Sample ID: S042508MVOWY1
 Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
Dichlorodifluoromethane	50.0	37.66	75		60-140
Chloromethane	50.0	40.65	81		60-140
Vinyl chloride	50.0	44.73	89		60-140
Bromomethane	50.0	48.1	96		60-140
Chloroethane	50.0	46.58	93		60-140
Trichlorofluoromethane	50.0	52.55	105		60-140
1,1-Dichloroethene	50.0	53.54	107		60-140
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.06	104		60-140
Methylene chloride	50.0	50.46	101		60-140
Methyl tert-butyl ether	50.0	51.53	103		60-140
trans-1,2-Dichloroethene	50.0	51.06	102		60-140
1,1-Dichloroethane	50.0	47.54	95		60-140
2,2-Dichloropropane	50.0	59.61	119		60-140
cis-1,2-Dichloroethene	50.0	51.36	103		60-140
2-Butanone	50.0	53.55	107		60-140
Bromochloromethane	50.0	51.52	103		60-140
Chloroform	50.0	47.45	95		60-140
1,1,1-Trichloroethane	50.0	53.22	106		60-140
Carbon tetrachloride	50.0	55.66	111		60-140
1,1-Dichloropropene	50.0	56.51	113		60-140
Benzene	50.0	50.61	101		60-140
1,2-Dichloroethane	50.0	48.89	98		60-140
Trichloroethene	50.0	51.39	103		60-140
1,2-Dichloropropane	50.0	49.3	99		60-140
Dibromomethane	50.0	48.48	97		60-140
Bromodichloromethane	50.0	53.02	106		60-140
cis-1,3-Dichloropropene	50.0	67.09	134		60-140
4-Methyl-2-pentanone	50.0	51.79	104		60-140
Toluene	50.0	51.4	103		60-140
trans-1,3-Dichloropropene	50.0	50.88	102		60-140
1,1,2-Trichloroethane	50.0	45.45	91		60-140
Tetrachloroethene	50.0	51.07	102		60-140
1,3-Dichloropropane	50.0	48.32	97		60-140
Dibromochloromethane	50.0	53.17	106		60-140

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

Spike Recovery: 0 out of 63 outside limits

COMMENTS:

Date Printed: 4/30/2008 13:03

3B
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin

BS Run Sequence: R027585 SDG No.: JPL99

BS Lab Sample ID: S042508MVOWY1

Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
1,2-Dibromoethane	50.0	48.86	98		60-140
Chlorobenzene	50.0	47.15	94		60-140
Ethylbenzene	50.0	49.69	99		60-140
1,1,1,2-Tetrachloroethane	50.0	48.88	98		60-140
m,p-Xylene	100	102.14	102		60-140
o-Xylene	50.0	50.65	101		60-140
Styrene	50.0	51.02	102		60-140
Bromoform	50.0	48.28	97		60-140
Isopropylbenzene	50.0	54.26	109		60-140
1,1,2,2-Tetrachloroethane	50.0	42.39	85		60-140
n-Propylbenzene	50.0	49.88	100		60-140
Bromobenzene	50.0	47.61	95		60-140
1,2,3-Trichloropropane	50.0	42.51	85		60-140
2-Chlorotoluene	50.0	47.26	95		60-140
1,3,5-Trimethylbenzene	50.0	47.06	94		60-140
4-Chlorotoluene	50.0	46.79	94		60-140
tert-Butylbenzene	50.0	48.62	97		60-140
1,2,4-Trimethylbenzene	50.0	47.28	95		60-140
sec-Butylbenzene	50.0	47.85	96		60-140
4-Isopropyltoluene	50.0	52.64	105		60-140
1,3-Dichlorobenzene	50.0	44.19	88		60-140
1,4-Dichlorobenzene	50.0	43.27	87		60-140
n-Butylbenzene	50.0	48.48	97		60-140
1,2-Dichlorobenzene	50.0	43.97	88		60-140
1,2-Dibromo-3-chloropropane	50.0	41.84	84		60-140
1,2,4-Trichlorobenzene	50.0	49.59	99		60-140
Hexachlorobutadiene	50.0	49.86	100		60-140
Naphthalene	50.0	49.2	98		60-140
1,2,3-Trichlorobenzene	50.0	47.01	94		60-140

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

Spike Recovery: 0 out of 63 outside limits

COMMENTS:

Date Printed: 4/30/2008 13:03

4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B042508MVOWY1

Lab Name Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL99

Lab File ID: Y0425010.D

Lab Sample ID: B042508MVOWY1

Date Analyzed: 04/25/2008

Time Analyzed: 10:51

GC Column: DB-624 20m ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: 5973Y

Matrix: Water

	CLIENT SAMPLE NO.	LAB SAMPLE ID.	LAB FILE ID.	DATE ANALYZED	TIME ANALYZED	RUN SEQUENCE
01	S042508MVOWY1	S042508MVOWY1	Y0425007.D	04/25/2008	09:39	R027585
02	TB-02-04/23/08	JPL99-007	Y0425022.D	04/25/2008	15:57	R027585
03	MW-22-5	JPL99-001	Y0425023.D	04/25/2008	16:22	R027585
04	MW-22-4	JPL99-002	Y0425024.D	04/25/2008	16:47	R027585
05	MW-22-3	JPL99-003	Y0425025.D	04/25/2008	17:12	R027585
06	MW-22-2	JPL99-004	Y0425026.D	04/25/2008	17:36	R027585
07	MW-22-1	JPL99-005	Y0425027.D	04/25/2008	18:01	R027585
08	EB-02-04/23/08	JPL99-006	Y0425028.D	04/25/2008	18:26	R027585
09						
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12						
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COMMENTS:

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

BFBY5

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 Run Sequence: CAL1310 SDG No.: JPL99
 Lab File ID: Y0414036.D BFB Injection Date: 04/14/2008
 Instrument ID: 5973Y BFB Injection Time: 21:43
 GC Column DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	17.8
75	30% to 60% of mass 95	48.1
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	6.8
173	less than 2% of mass 174	0()1
174	greater than 50% of mass 95	99.4
175	5% to 9% of mass 17	7.2()1
176	greater than 95%, but less than 101% of mass 174	95.4()1
177	5% to 9% of mass 176	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 SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0.3	VSTD0.3	Y0414037.D	04/14/2008	22:08
02	VSTD0.5	VSTD0.5	Y0414038.D	04/14/2008	22:33
03	VSTD001	VSTD001	Y0414039.D	04/14/2008	22:58
04	VSTD005	VSTD005	Y0414040.D	04/14/2008	23:22
05	VSTD010	VSTD010	Y0414041.D	04/14/2008	23:47
06	VSTD050	VSTD050	Y0414042.D	04/15/2008	00:12
07	VSTD100	VSTD100	Y0414043.D	04/15/2008	00:36
08	VSTD200	VSTD200	Y0414044.D	04/15/2008	01:01
09					
10					
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17					
18					
19					
20					
21					
22					

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

BFBY1

Lab Name: Pace Analytical Services Contract: _____
 Run Sequence: R027335 SDG No.: NBS013-JPL99 RE 4/30/08
 Lab File ID: Y0415011.D BFB Injection Date: 04/15/2008
 Instrument ID: 5973Y BFB Injection Time: 09:55
 GC Column DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	18
75	30% to 60% of mass 95	48.6
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	6.6
173	less than 2% of mass 174	0()1
174	greater than 50% of mass 95	94.8
175	5% to 9% of mass 17	8.3()1
176	greater than 95%, but less than 101% of mass 174	99.1()1
177	5% to 9% of mass 176	6.1()2

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	S041508MVOWY2	S041508MVOWY2	Y0415015.D	04/15/2008	11:39
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

BFBY3

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 Run Sequence: R027585 SDG No.: JPL99
 Lab File ID: Y0425005.D BFB Injection Date: 04/25/2008
 Instrument ID: 5973Y BFB Injection Time: 08:50
 GC Column DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	18.1
75	30% to 60% of mass 95	47.4
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	7.5
173	less than 2% of mass 174	0 () 1
174	greater than 50% of mass 95	104.4
175	5% to 9% of mass 17	8 () 1
176	greater than 95%, but less than 101% of mass 174	97 () 1
177	5% to 9% of mass 176	6.2 () 2

1 - Value is %mass 174

2 - Value is %mass 176

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050Y1	VSTD050Y1	Y0425006.D	04/25/2008	09:13
02	S042508MVOWY1	S042508MVOWY1	Y0425007.D	04/25/2008	09:39
03	B042508MVOWY1	B042508MVOWY1	Y0425010.D	04/25/2008	10:51
04	TB-02-04/23/08	JPL99-007	Y0425022.D	04/25/2008	15:57
05	MW-22-5	JPL99-001	Y0425023.D	04/25/2008	16:22
06	MW-22-4	JPL99-002	Y0425024.D	04/25/2008	16:47
07	MW-22-3	JPL99-003	Y0425025.D	04/25/2008	17:12
08	MW-22-2	JPL99-004	Y0425026.D	04/25/2008	17:36
09	MW-22-1	JPL99-005	Y0425027.D	04/25/2008	18:01
10	EB-02-04/23/08	JPL99-006	Y0425028.D	04/25/2008	18:26
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitoring
 Run Sequence: R027585 SDG No.: JPL99
 Client Sample No. (VSTD050##): VSTD050Y1 Date Analyzed: 04/25/2008
 Lab File ID (Standard): Y0425006.D Time Analyzed: 09:13
 Instrument ID: 5973Y Heated Purge: (Y/N) N
 GC Column: DB-624 20m ID: 0.18 (mm)

	IS1 (FBZ) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	453495	8.23	253558	11.68	342705	13.61
UPPER LIMIT	906990	8.28	507116	11.73	685410	13.66
LOWER LIMIT	226747.5	8.18	126779	11.63	171352.5	13.56
CLIENT SAMPLE NO.						
01 S042508MVOWY1	450165	8.23	226917	11.68	323357	13.61
02 B042508MVOWY1	425993	8.23	215615	11.68	308415	13.61
03 TB-02-04/23/08	357045	8.23	191958	11.68	279540	13.61
04 MW-22-5	412483	8.23	217009	11.68	303564	13.61
05 MW-22-4	380557	8.23	201115	11.68	292284	13.61
06 MW-22-3	384092	8.23	203373	11.68	294395	13.61
07 MW-22-2	345415	8.23	180070	11.68	272807	13.61
08 MW-22-1	415408	8.23	226369	11.68	312606	13.61
09 EB-02-04/23/08	413697	8.23	217240	11.68	303105	13.61
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (FBZ) = Fluorobenzene

IS2 (CBZ) = Chlorobenzene-d5

IS3 (DCB) = 1,4-Dichlorobenzene-d4

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

Date Printed: 4/30/2008 13:06

SAMPLE DATA

SDG JPL99

VOLATILES ANALYSIS

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-5

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-001
 Lab File ID: Y0425023.D
 Date Collected: 04/23/2008
 Date/Time Analyzed: 04/25/2008 16:22
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-5

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-001
 Lab File ID: Y0425023.D
 Date Collected: 04/23/2008
 Date/Time Analyzed: 04/25/2008 16:22
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-5

Lab Name: Pace Analytical Services

SDG No.: JPL99

Matrix: (SOIL/SED/WATER) Water

Sample wt/vol: 5.00 (g/mL) mL

Level: (LOW/MED) _____

% Moisture: not dec. _____

GC Column: DB-624 20m ID: 0.18 (mm)

Soil Extract Volume: _____ (uL)

Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin

Run Sequence: R027585

Lab Sample ID: JPL99-001

Lab File ID: Y0425023.D

Date Collected: 04/23/2008

Date/Time Analyzed: 04/25/2008 16:22

Dilution Factor: 1.0

Soil Aliquot Volume: _____ (uL)

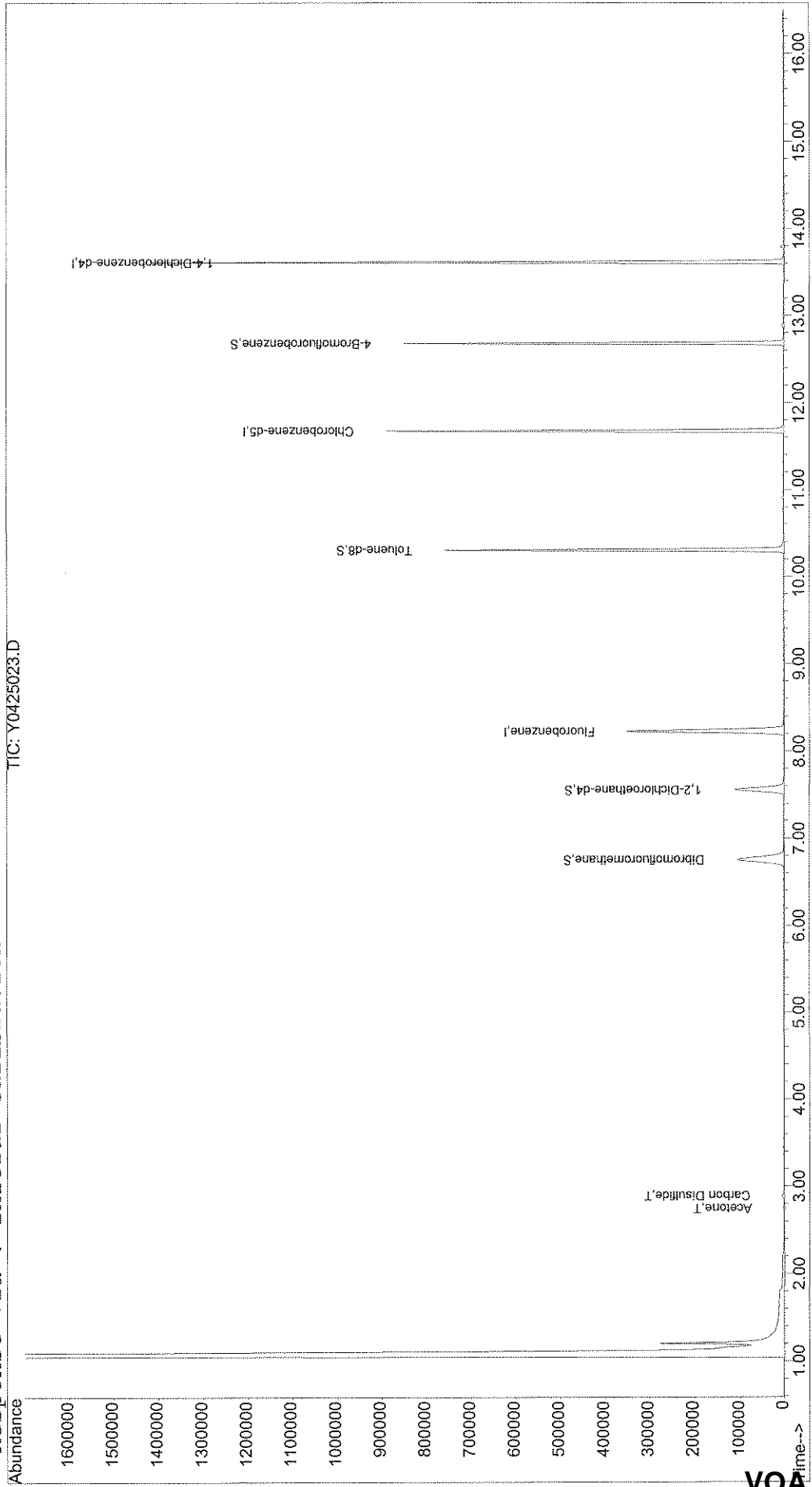
CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425023.D Vial: 18
Acq On : 25 Apr 2008 16:22 Operator: LPM
Sample : JPL99-001 Inst : yoda
Misc : #3 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 8:05 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



VOA - 14

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425023.D
 Acq On : 25 Apr 2008 16:22
 Sample : JPL99-001
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:05 2008

Vial: 18
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	412483	50.00	ug/l	0.00	80.78%
54) Chlorobenzene-d5	11.68	82	217009	50.00	ug/l	0.00	88.72%
74) 1,4-Dichlorobenzene-d4	13.61	152	303564	50.00	ug/l	0.00	86.62%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	137009	50.78	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	101.56%	
40) 1,2-Dichloroethane-d4	7.56	65	131080	50.86	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.72%	
55) Toluene-d8	10.30	98	447442	47.62	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	95.24%	
76) 4-Bromofluorobenzene	12.68	95	200097	50.70	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	101.40%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	0.00	50	0	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	1.86	64	77	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.75	43	3190	3.25	ug/l #	82
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	7353	0.65	ug/l	100
15) Allyl chloride	3.13	76	266	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	3.66	53	69	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.	d	
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

JPL99-001

(#) = qualifier out of range (m) = manual integration
 Y0425023.D Y8260W.M Mon Apr 28 08:05:28 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425023.D
 Acq On : 25 Apr 2008 16:22
 Sample : JPL99-001
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:05 2008

Vial: 18
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	0.00	43	0		N.D.	d
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	6.14	41	55		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.65	78	85		N.D.	
42) 1,2-Dichloroethane	7.71	62	55		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	8.81	130	54		N.D.	
46) Methylcyclohexane	9.06	83	58		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.37	92	235		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0		N.D.	
60) Tetrachloroethene	10.91	166	55		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.18	43	114		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	119		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

J. 28/08/08

(#) = qualifier out of range (m) = manual integration
 Y0425023.D Y8260W.M Mon Apr 28 08:05:28 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425023.D
 Acq On : 25 Apr 2008 16:22
 Sample : JPL99-001
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:05 2008

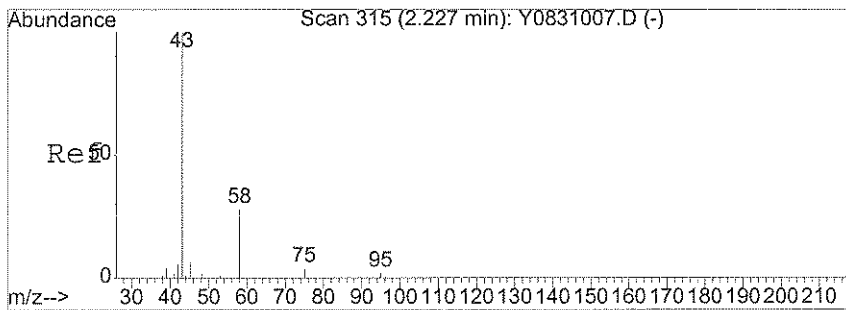
Vial: 18
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

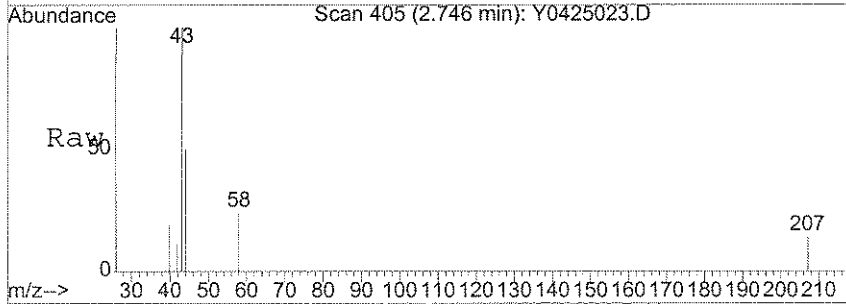
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	147		N.D.	
69) m,p-Xylene	11.91	106	59		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	12.26	104	433		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.56	105	151		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	0.00	156	0		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.68	83	219		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	13.04	120	59		N.D.	
81) 2-Chlorotoluene	12.91	91	61		N.D.	
82) 4-Chlorotoluene	12.91	91	61		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.63	146	282		N.D.	
88) 4-Isopropyltoluene	13.59	119	221		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	282		N.D.	
90) 1,2-Dichlorobenzene	13.63	146	126		N.D.	
91) n-Butylbenzene	13.91	91	218		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.22	75	57		N.D.	
93) 1,2,4-Trichlorobenzene	0.00	180	0		N.D.	
94) Hexachlorobutadiene	15.31	225	55		N.D.	
95) Naphthalene	15.37	128	69		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	63		N.D.	

4/28/08 LPM

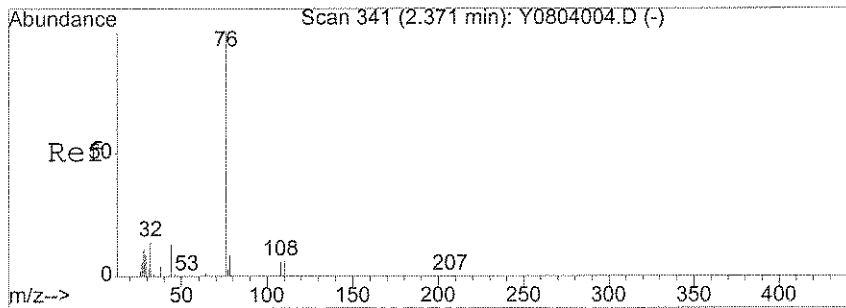
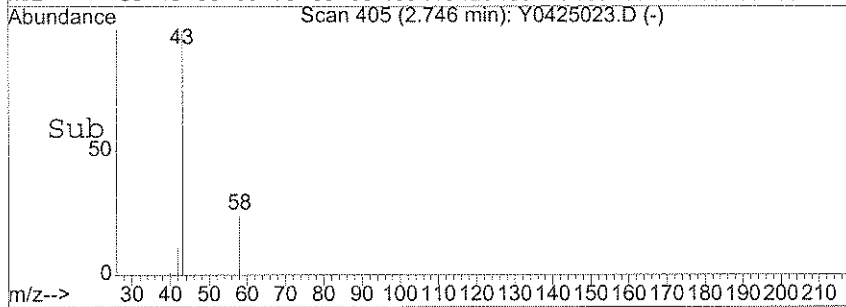
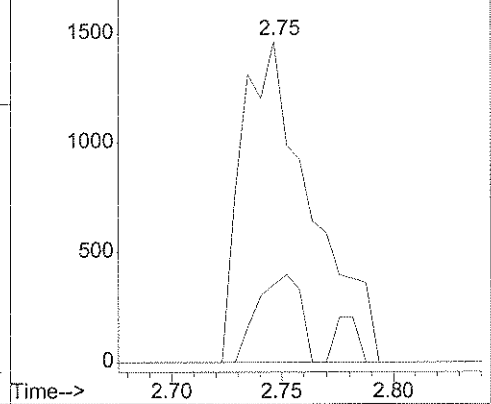


#11
 Acetone
 Concen: 3.25 ug/l
 RT: 2.75 min Scan# 405
 Delta R.T. 0.01 min
 Lab File: Y0425023.D
 Acq: 25 Apr 2008 16:22

Tgt Ion	Resp	Lower	Upper
43	3190		
58	17.1	21.3	31.9#

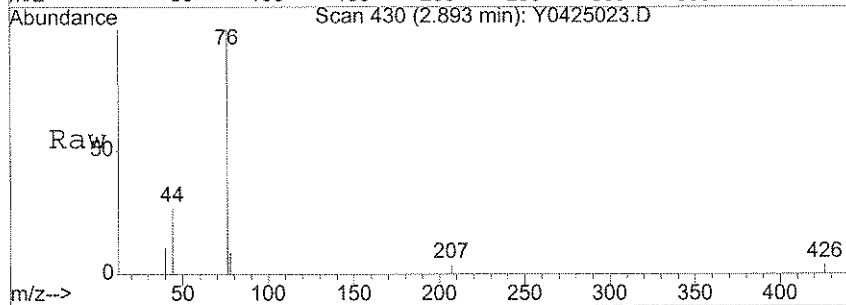


Abundance Ion 43.15 (42.85 to 43.85): Y0425023.D
 Ion 58.05 (57.75 to 58.75): Y0425023.D

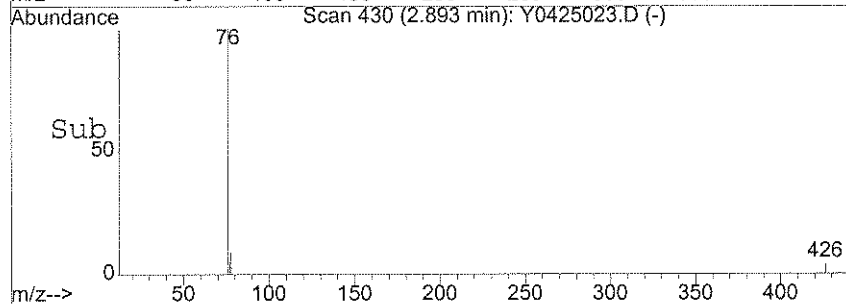
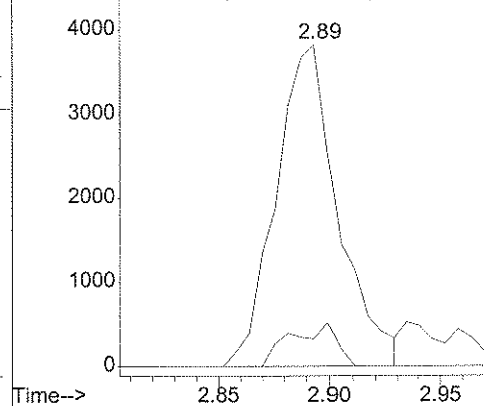


#14
 Carbon Disulfide
 Concen: 0.65 ug/l
 RT: 2.89 min Scan# 430
 Delta R.T. 0.01 min
 Lab File: Y0425023.D
 Acq: 25 Apr 2008 16:22

Tgt Ion	Resp	Lower	Upper
76	7353		
78	9.8	0.0	20.0



Abundance Ion 76.00 (75.70 to 76.70): Y0425023.D
 Ion 78.00 (77.70 to 78.70): Y0425023.D



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-4

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-002
 Lab File ID: Y0425024.D
 Date Collected: 04/23/2008
 Date/Time Analyzed: 04/25/2008 16:47
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-4

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-002
 Lab File ID: Y0425024.D
 Date Collected: 04/23/2008
 Date/Time Analyzed: 04/25/2008 16:47
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-4

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-002
 Lab File ID: Y0425024.D
 Date Collected: 04/23/2008
 Date/Time Analyzed: 04/25/2008 16:47
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

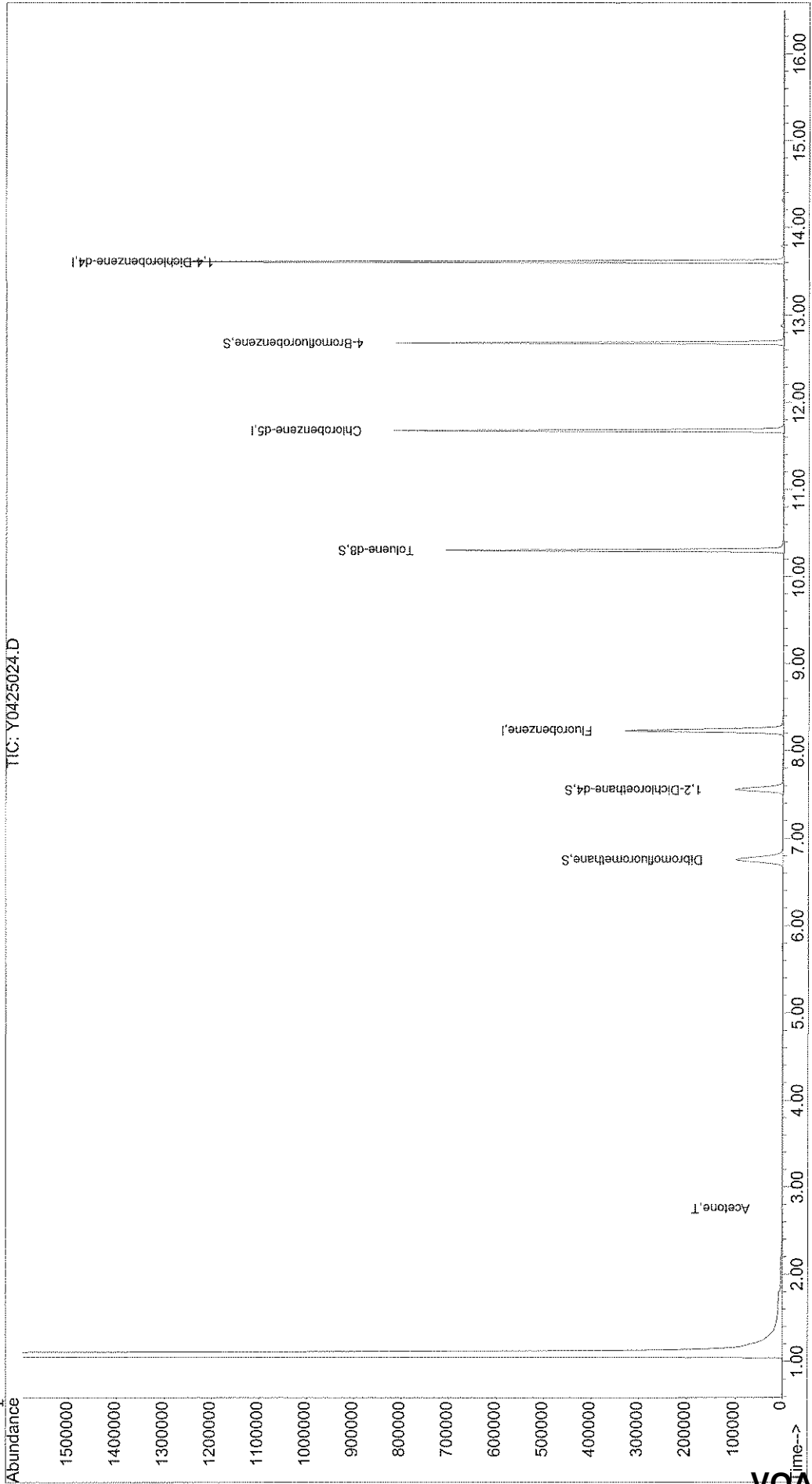
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425024.D Vial: 19
Acq On : 25 Apr 2008 16:47 Operator: LPM
Sample : JPL99-002 Inst : Yoda
Misc : #4 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 8:06 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425024.D
 Acq On : 25 Apr 2008 16:47
 Sample : JPL99-002
 Misc : #4 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:06 2008

Vial: 19
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	380557	50.00	ug/l	0.00	74.53%
54) Chlorobenzene-d5	11.68	82	201115	50.00	ug/l	0.00	82.22%
74) 1,4-Dichlorobenzene-d4	13.61	152	292284	50.00	ug/l	0.00	83.40%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	132357	53.17	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	106.34%	
40) 1,2-Dichloroethane-d4	7.56	65	122361	51.46	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.92%	
55) Toluene-d8	10.30	98	413666	47.50	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	95.00%	
76) 4-Bromofluorobenzene	12.68	95	190490	50.13	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	100.26%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	0.00	50	0	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	2.61	96	58	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.75	43	2225	2.46	ug/l #	75
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	1422	N.D.		
15) Allyl chloride	3.08	76	61	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

4/28/08 LPM

(#) = qualifier out of range (m) = manual integration
 Y0425024.D Y8260W.M Mon Apr 28 08:06:12 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425024.D
 Acq On : 25 Apr 2008 16:47
 Sample : JPL99-002
 Misc : #4 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:06 2008

Vial: 19
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	5.65	43	58		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	6.24	41	103		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.65	78	57		N.D.	
42) 1,2-Dichloroethane	7.59	62	53		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.37	92	174		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	10.98	69	55		N.D.	
59) 1,1,2-Trichloroethane	10.88	97	66		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	10.98	43	157		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	77		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0425024.D Y8260W.M Mon Apr 28 08:06:12 2008

Quantitation Report

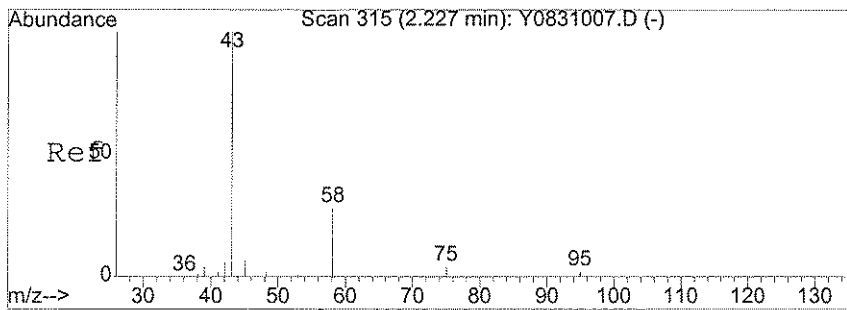
Data File : X:\MSVOA\YODA\042508\Y0425024.D
 Acq On : 25 Apr 2008 16:47
 Sample : JPL99-002
 Misc : #4 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:06 2008

Vial: 19
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

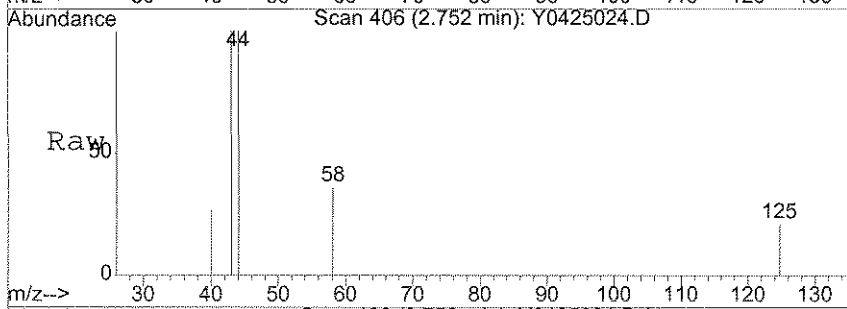
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.92	91	170		N.D.	
69) m,p-Xylene	11.92	106	135		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	12.36	104	55		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.67	105	65		N.D.	
75) trans-1,4-Dichloro-2-buten	12.75	53	57		N.D.	
77) Bromobenzene	12.68	156	189		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.69	83	66		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.89	91	60		N.D.	
82) 4-Chlorotoluene	12.89	91	60		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.63	146	170		N.D.	
88) 4-Isopropyltoluene	13.59	119	121		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	170		N.D.	
90) 1,2-Dichlorobenzene	13.63	146	170		N.D.	
91) n-Butylbenzene	13.91	91	127		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.47	75	53		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	155		N.D.	
94) Hexachlorobutadiene	0.00	225	0		N.D.	
95) Naphthalene	15.36	128	89		N.D.	
96) 1,2,3-Trichlorobenzene	15.17	180	155		N.D.	

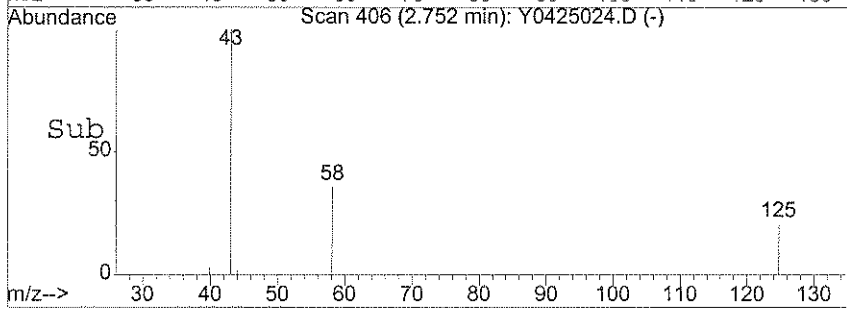
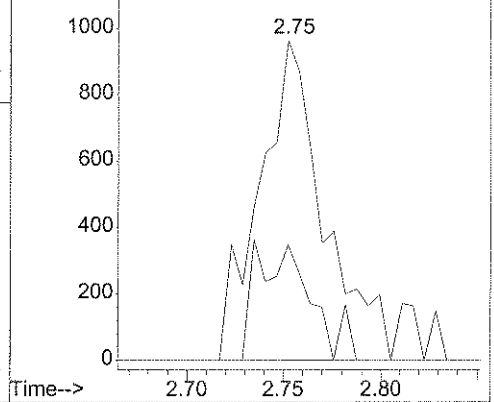


#11
 Acetone
 Concen: 2.46 ug/l
 RT: 2.75 min Scan# 406
 Delta R.T. 0.02 min
 Lab File: Y0425024.D
 Acq: 25 Apr 2008 16:47

Tgt Ion	Resp	Lower	Upper
43	100		
58	13.5	21.3	31.9#



Abundance Ion 43.15 (42.85 to 43.85): Y0425024.D
 Ion 58.05 (57.75 to 58.75): Y0425024.D



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-3

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-003
 Lab File ID: Y0425025.D
 Date Collected: 04/23/2008
 Date/Time Analyzed: 04/25/2008 17:12
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-3

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-003
 Lab File ID: Y0425025.D
 Date Collected: 04/23/2008
 Date/Time Analyzed: 04/25/2008 17:12
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-3

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-003
 Lab File ID: Y0425025.D
 Date Collected: 04/23/2008
 Date/Time Analyzed: 04/25/2008 17:12
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

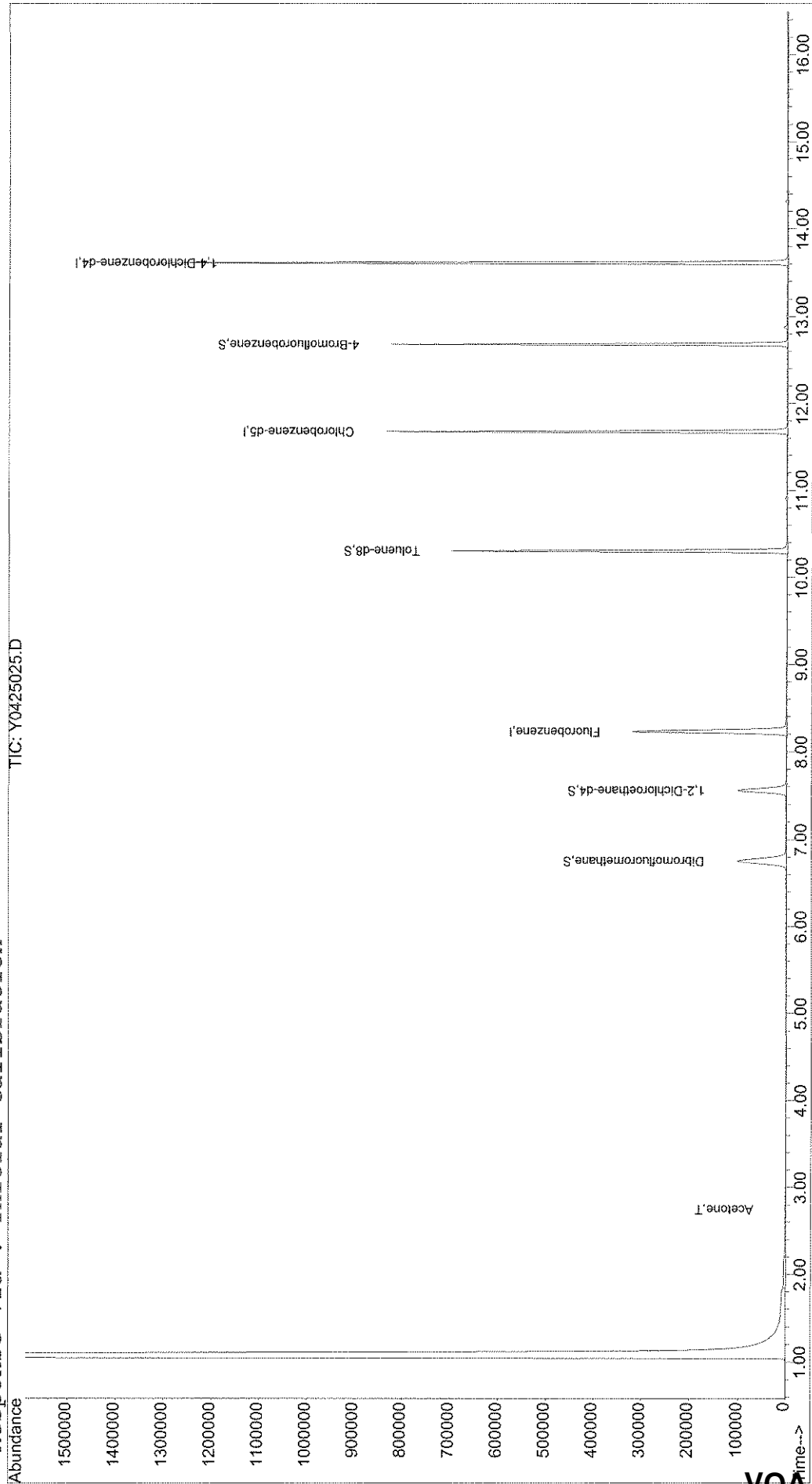
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425025.D Vial: 20
Acq On : 25 Apr 2008 17:12 Operator: LPM
Sample : JPL99-003 Inst : Yoda
Misc : #2 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 8:06 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425025.D
 Acq On : 25 Apr 2008 17:12
 Sample : JPL99-003
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:06 2008

Vial: 20
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	384092	50.00	ug/l	0.00	75.22%
54) Chlorobenzene-d5	11.68	82	203373	50.00	ug/l	0.00	83.15%
74) 1,4-Dichlorobenzene-d4	13.61	152	294395	50.00	ug/l	0.00	84.00%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	137158	54.59	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	109.18%	
40) 1,2-Dichloroethane-d4	7.55	65	123378	51.41	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.82%	
55) Toluene-d8	10.30	98	410776	46.65	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	93.30%	
76) 4-Bromofluorobenzene	12.68	95	191556	50.05	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	100.10%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	0.00	50	0	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	2.65	96	59	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.75	43	1645	1.80	ug/l	92
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	892	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	3.19	43	60	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

4/28/08 LPM

(#) = qualifier out of range (m) = manual integration
 Y0425025.D Y8260W.M Mon Apr 28 08:06:53 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425025.D
 Acq On : 25 Apr 2008 17:12
 Sample : JPL99-003
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:06 2008

Vial: 20
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	4.32	63	115		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	5.50	96	60		N.D.	
30) 2-Butanone	0.00	43	0		N.D.	d
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.32	83	179		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	0.00	78	0		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	8.80	130	54		N.D.	
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	9.32	41	66		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.38	92	126		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0		N.D.	
60) Tetrachloroethene	10.91	166	99		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.10	43	173		N.D.	
63) Dibromochloromethane	10.92	129	119		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.69	112	75		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

4/28/08 LPM

(#) = qualifier out of range (m) = manual integration
 Y0425025.D Y8260W.M Mon Apr 28 08:06:54 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425025.D
 Acq On : 25 Apr 2008 17:12
 Sample : JPL99-003
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:06 2008

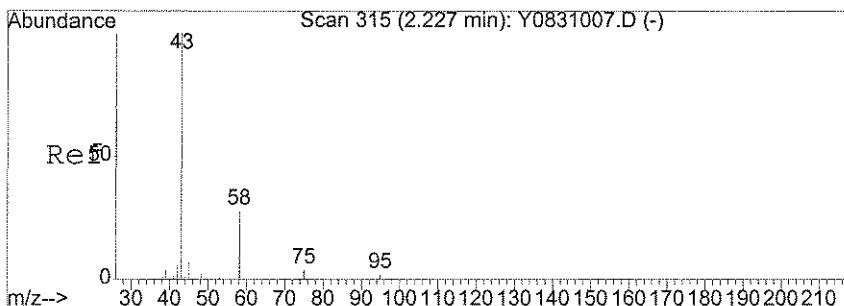
Vial: 20
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

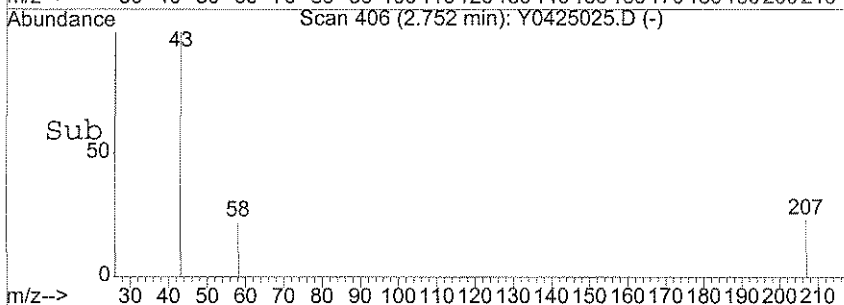
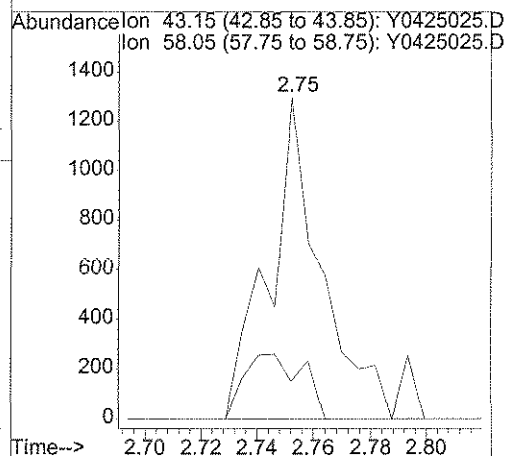
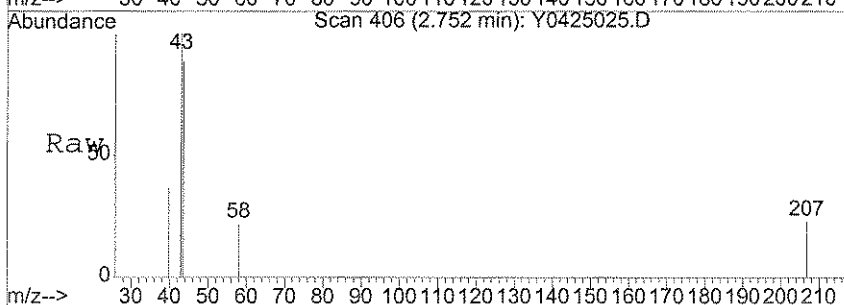
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	72		N.D.	
69) m,p-Xylene	12.04	106	56		N.D.	
70) o-xylene	12.04	106	56		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.69	105	244		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	136		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.89	91	76		N.D.	
82) 4-Chlorotoluene	12.89	91	76		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.55	146	675		N.D.	
88) 4-Isopropyltoluene	13.59	119	114		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	238		N.D.	
90) 1,2-Dichlorobenzene	13.92	146	342		N.D.	
91) n-Butylbenzene	13.91	91	190		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	219		N.D.	
94) Hexachlorobutadiene	15.30	225	73		N.D.	
95) Naphthalene	15.34	128	79		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	404		N.D.	

4/28/08 LPM



#11
 Acetone
 Concen: 1.80 ug/l
 RT: 2.75 min Scan# 406
 Delta R.T. 0.02 min
 Lab File: Y0425025.D
 Acq: 25 Apr 2008 17:12

Tgt Ion	Resp	Lower	Upper
43	1645		
58	22.7	21.3	31.9



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-2

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-004
 Lab File ID: Y0425026.D
 Date Collected: 04/23/2008
 Date/Time Analyzed: 04/25/2008 17:36
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-2

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-004
 Lab File ID: Y0425026.D
 Date Collected: 04/23/2008
 Date/Time Analyzed: 04/25/2008 17:36
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-2

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-004
 Lab File ID: Y0425026.D
 Date Collected: 04/23/2008
 Date/Time Analyzed: 04/25/2008 17:36
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

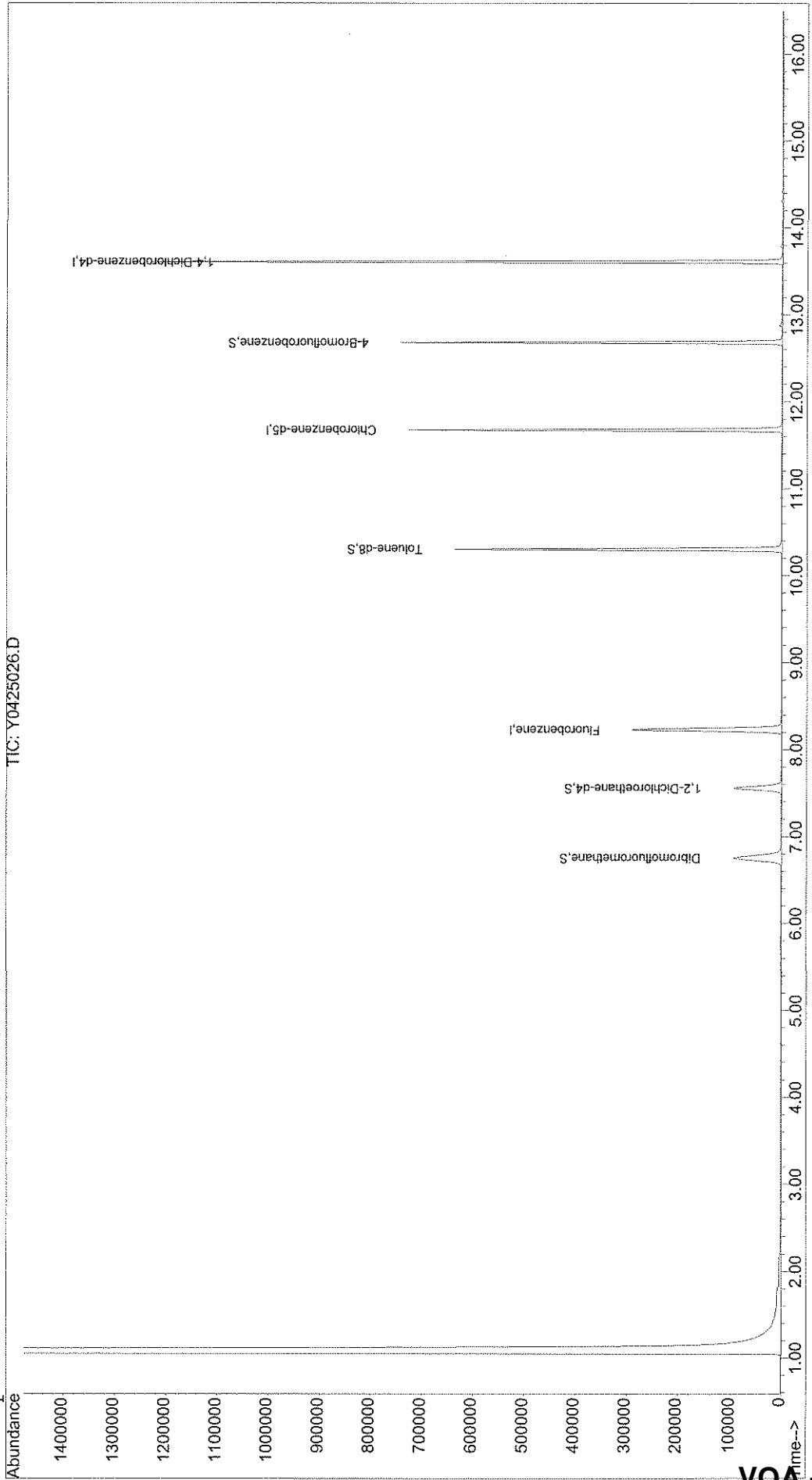
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425026.D
Acq On : 25 Apr 2008 17:36 Vial: 21
Sample : JPL99-004 Operator: LPM
Misc : #2 5mL+IS/SS(MV8-45-10) (524) Inst : Yoda
MS Integration Params: rteint.p Multiplr: 1.00
Quant Time: Apr 28 8:22 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425026.D
 Acq On : 25 Apr 2008 17:36
 Sample : JPL99-004
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:22 2008

Vial: 21
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	345415	50.00	ug/l	0.00 67.65%
54) Chlorobenzene-d5	11.68	82	180070	50.00	ug/l	0.00 73.62%
74) 1,4-Dichlorobenzene-d4	13.61	152	272807	50.00	ug/l	0.00 77.84%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	121551	53.80	ug/l	0.00
Spiked Amount	50.000	Range 85 - 115	Recovery	=	107.60%	
40) 1,2-Dichloroethane-d4	7.56	65	111903	51.85	ug/l	0.00
Spiked Amount	50.000	Range 70 - 120	Recovery	=	103.70%	
55) Toluene-d8	10.30	98	371798	47.68	ug/l	0.00
Spiked Amount	50.000	Range 85 - 120	Recovery	=	95.36%	
76) 4-Bromofluorobenzene	12.68	95	177923	50.17	ug/l	0.00
Spiked Amount	50.000	Range 75 - 120	Recovery	=	100.34%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	0.00	50	0	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	0.00	43	0	N.D.	d	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.88	76	531	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

4/28/08 LPM

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

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425026.D
 Acq On : 25 Apr 2008 17:36
 Sample : JPL99-004
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:22 2008

Vial: 21
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	4.35	63	57		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	0.00	43	0		N.D.	d
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.34	83	67		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.66	78	116		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	9.06	83	59		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	0.00	92	0		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.88	97	55		N.D.	
60) Tetrachloroethene	10.91	166	65		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.17	43	105		N.D.	
63) Dibromochloromethane	10.91	129	75		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	53		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

4/28/08 LPM

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

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425026.D
 Acq On : 25 Apr 2008 17:36
 Sample : JPL99-004
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:22 2008

Vial: 21
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	72		N.D.	
69) m,p-Xylene	0.00	106	0		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	12.27	104	58		N.D.	
72) Bromoform	12.70	173	59		N.D.	
73) Isopropylbenzene	12.55	105	58		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.69	156	85		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.89	91	120		N.D.	
82) 4-Chlorotoluene	13.06	91	82		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	
86) sec-butylbenzene	0.00	105	0		N.D.	
87) 1,3-Dichlorobenzene	13.56	146	254		N.D.	
88) 4-Isopropyltoluene	13.59	119	62		N.D.	
89) 1,4-Dichlorobenzene	13.62	146	111		N.D.	
90) 1,2-Dichlorobenzene	13.93	146	377		N.D.	
91) n-Butylbenzene	13.61	91	556		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.16	180	69		N.D.	
94) Hexachlorobutadiene	0.00	225	0		N.D.	
95) Naphthalene	15.36	128	61		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	328		N.D.	

4/28/08

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

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-1

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-005
 Lab File ID: Y0425027.D
 Date Collected: 04/23/2008
 Date/Time Analyzed: 04/25/2008 18:01
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-1

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-005
 Lab File ID: Y0425027.D
 Date Collected: 04/23/2008
 Date/Time Analyzed: 04/25/2008 18:01
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.40	J
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-1

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-005
 Lab File ID: Y0425027.D
 Date Collected: 04/23/2008
 Date/Time Analyzed: 04/25/2008 18:01
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

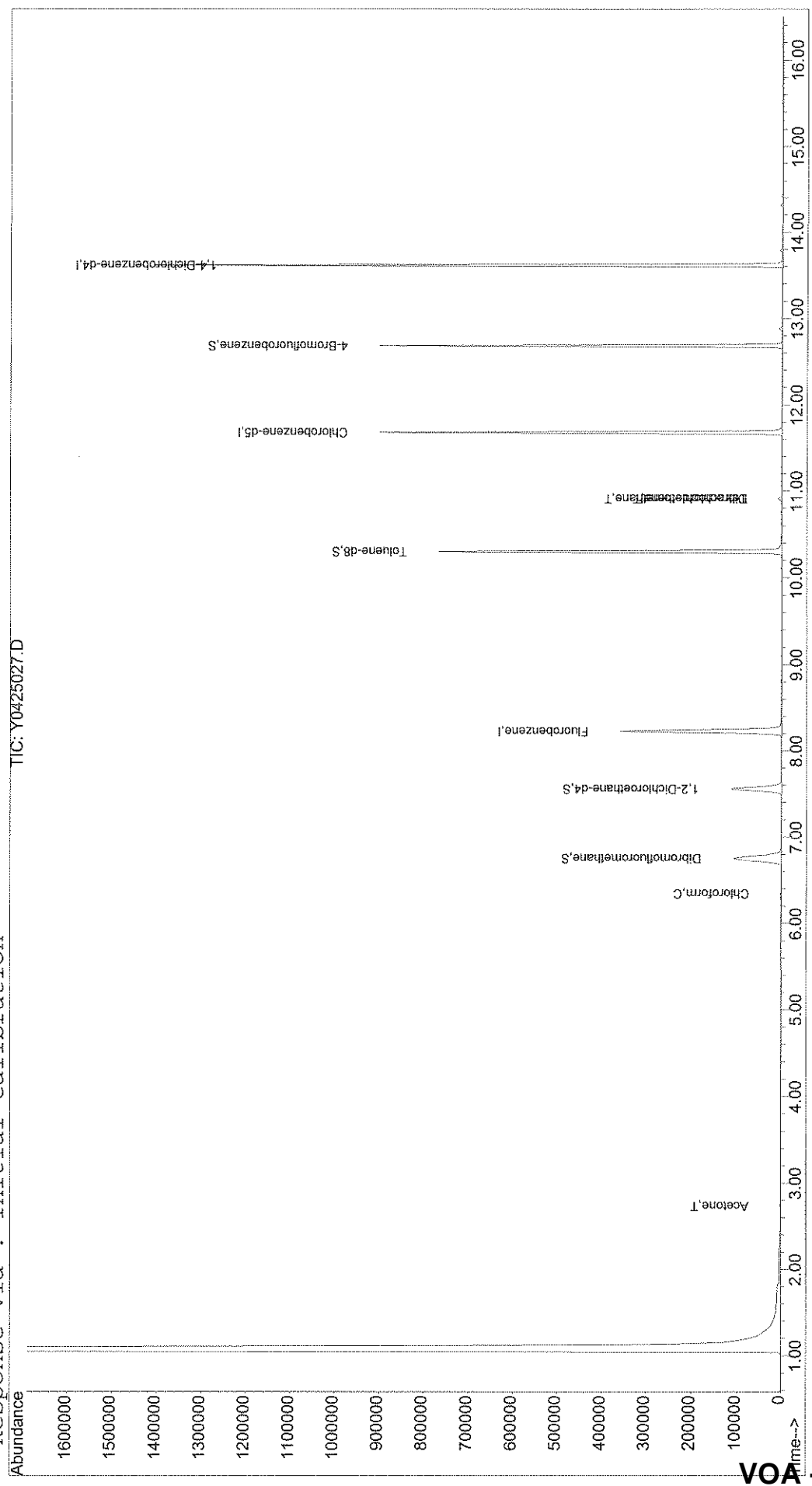
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425027.D Vial: 22
Acq On : 25 Apr 2008 18:01 Operator: LPM
Sample : JPL99-005 Inst : Yoda
Misc : #3 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 8:23 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425027.D
 Acq On : 25 Apr 2008 18:01
 Sample : JPL99-005
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:23 2008

Vial: 22
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	415408	50.00	ug/l	0.00	81.35%
54) Chlorobenzene-d5	11.68	82	226369	50.00	ug/l	0.00	92.55%
74) 1,4-Dichlorobenzene-d4	13.61	152	312606	50.00	ug/l	0.00	89.20%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	137674	50.66	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	101.32%	
40) 1,2-Dichloroethane-d4	7.55	65	131935	50.83	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.66%	
55) Toluene-d8	10.30	98	466849	47.63	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	95.26%	
76) 4-Bromofluorobenzene	12.68	95	208971	51.42	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	102.84%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	0.00	50	0	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.73	43	1401	1.42	ug/l #	79
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	179	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	3.70	73	54	N.D.		

4/28/08 LPM

(#) = qualifier out of range (m) = manual integration
 Y0425027.D Y8260W.M Mon Apr 28 08:23:41 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425027.D
 Acq On : 25 Apr 2008 18:01
 Sample : JPL99-005
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:23 2008

Vial: 22
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
23) 1,1-Dichloroethane	4.36	63	910	N.D.	
24) Vinyl acetate	4.44	43	54	N.D.	
25) Chloroprene	0.00	53	0	N.D.	
26) Isopropyl ether	0.00	45	0	N.D.	
27) Ethyl-t-butyl ether	0.00	59	0	N.D.	
28) 2,2-Dichloropropane	0.00	77	0	N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0	N.D.	
30) 2-Butanone	5.53	43	142	N.D.	
31) Propionitrile	0.00	54	0	N.D.	
32) Bromochloromethane	0.00	128	0	N.D.	
33) Methacrylonitrile	0.00	41	0	N.D.	
34) Chloroform	6.35	83	1508	0.24 ug/l #	33
35) 1,1,1-Trichloroethane	0.00	97	0	N.D.	
37) Cyclohexane	6.84	56	58	N.D.	
38) Carbon Tetrachloride	0.00	117	0	N.D.	
39) 1,1-Dichloropropene	0.00	75	0	N.D.	
41) Benzene	7.65	78	65	N.D.	
42) 1,2-Dichloroethane	0.00	62	0	N.D.	
43) Isobutanol	0.00	43	0	N.D.	
44) t-amyl methyl ether	0.00	73	0	N.D.	
45) Trichloroethene	8.82	130	412	N.D.	
46) Methylcyclohexane	9.15	83	58	N.D.	
47) 1,2-Dichloropropane	0.00	63	0	N.D.	
48) Dibromomethane	0.00	93	0	N.D.	
49) Methyl methacrylate	0.00	41	0	N.D.	
50) Bromodichloromethane	9.51	83	59	N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0	N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0	N.D. d	
56) Toluene	10.37	92	134	N.D.	
57) trans-1,3-Dichloropropene	10.86	75	141	N.D.	
58) Ethyl methacrylate	0.00	69	0	N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0	N.D.	
60) Tetrachloroethene	10.92	166	1488	0.40 ug/l #	89
61) 1,3-Dichloropropane	0.00	76	0	N.D.	
62) 2-Hexanone	0.00	43	0	N.D.	
63) Dibromochloromethane	10.91	129	1150	43 ug/l #	10
64) 1,2-Dibromoethane	0.00	107	0	N.D.	
65) Chlorobenzene	11.70	112	57	N.D.	
66) 1-Chlorohexane	0.00	91	0	N.D. d	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0425027.D Y8260W.M Mon Apr 28 08:23:42 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425027.D
 Acq On : 25 Apr 2008 18:01
 Sample : JPL99-005
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:23 2008

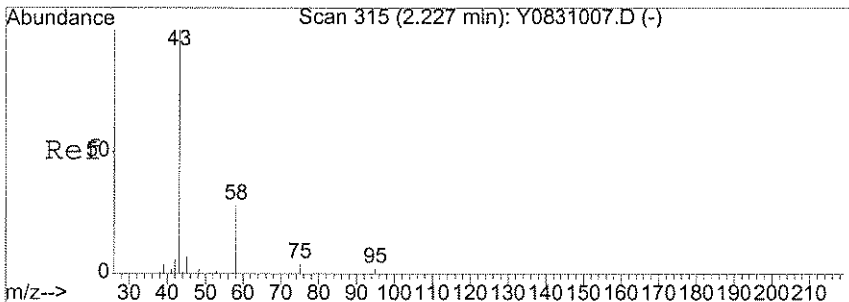
Vial: 22
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

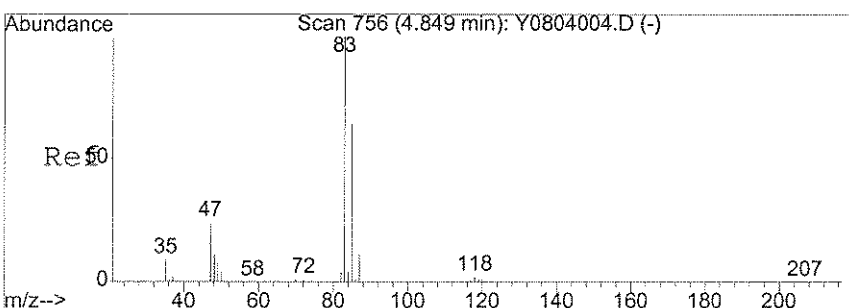
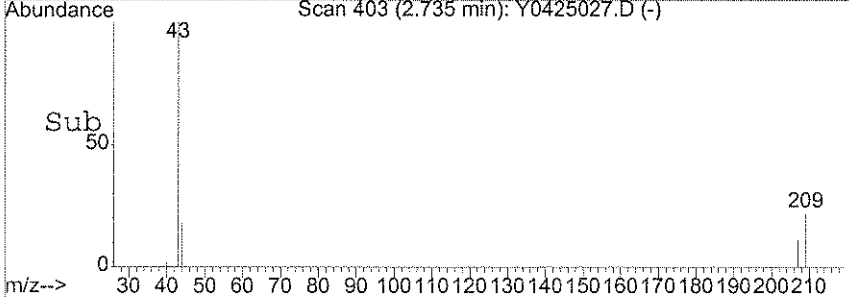
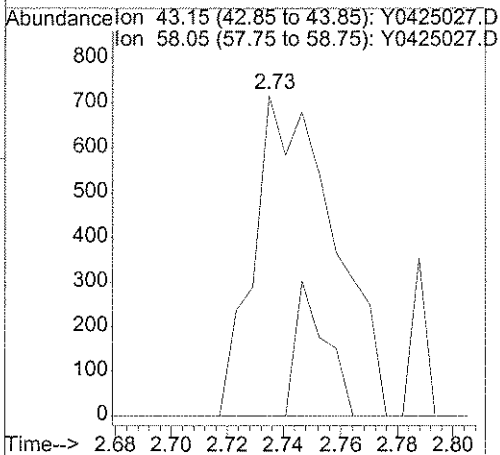
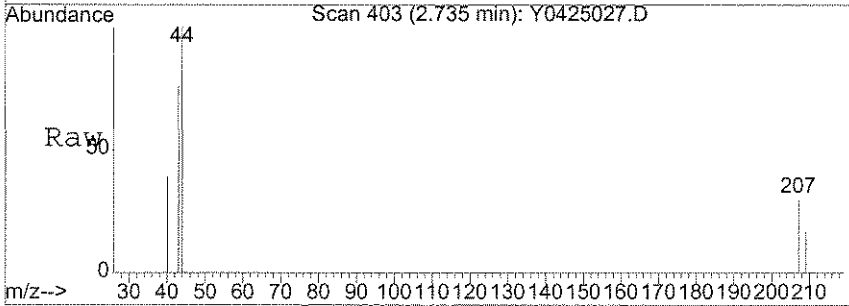
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	129		N.D.	
69) m,p-Xylene	11.92	106	120		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.61	105	54		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	90		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.89	91	65		N.D.	
82) 4-Chlorotoluene	12.89	91	65		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.63	146	53		N.D.	
88) 4-Isopropyltoluene	13.60	119	109		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	53		N.D.	
90) 1,2-Dichlorobenzene	13.91	146	57		N.D.	
91) n-Butylbenzene	13.92	91	330		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.55	180	88		N.D.	
94) Hexachlorobutadiene	15.31	225	109		N.D.	
95) Naphthalene	0.00	128	0		N.D.	
96) 1,2,3-Trichlorobenzene	15.55	180	88		N.D.	

4/28/08 LPM



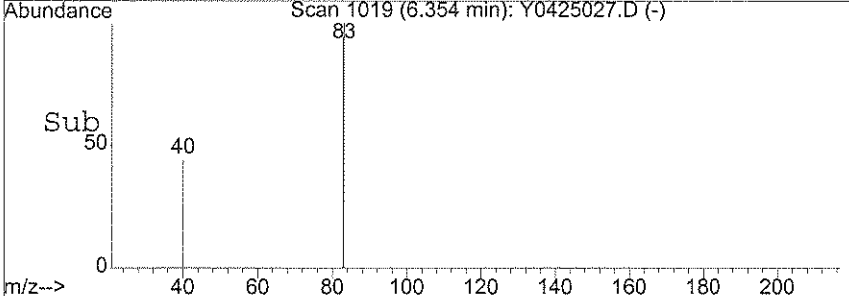
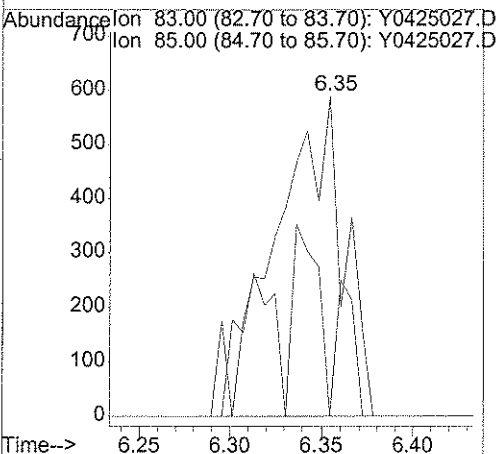
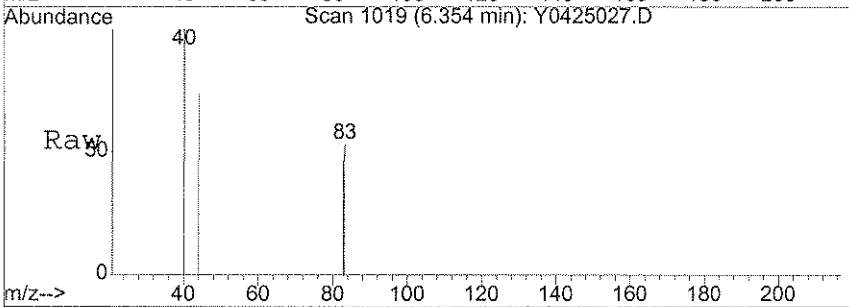
#11
 Acetone
 Concen: 1.42 ug/l
 RT: 2.73 min Scan# 403
 Delta R.T. 0.00 min
 Lab File: Y0425027.D
 Acq: 25 Apr 2008 18:01

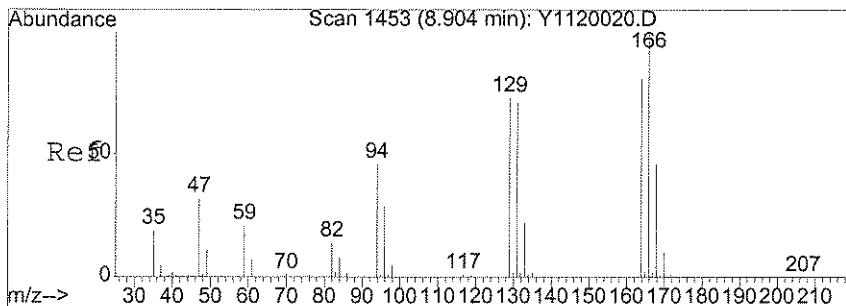
Tgt Ion	Resp	Lower	Upper
43	1401		
58	15.8	21.3	31.9#



#34
 Chloroform
 Concen: 0.24 ug/l
 RT: 6.35 min Scan# 1019
 Delta R.T. 0.02 min
 Lab File: Y0425027.D
 Acq: 25 Apr 2008 18:01

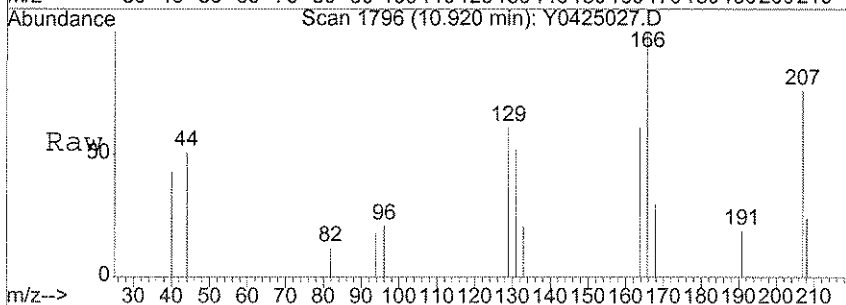
Tgt Ion	Resp	Lower	Upper
83	1508		
85	10.9	43.3	83.3#



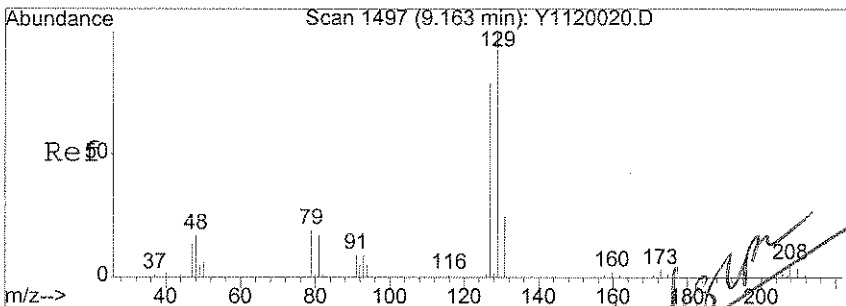
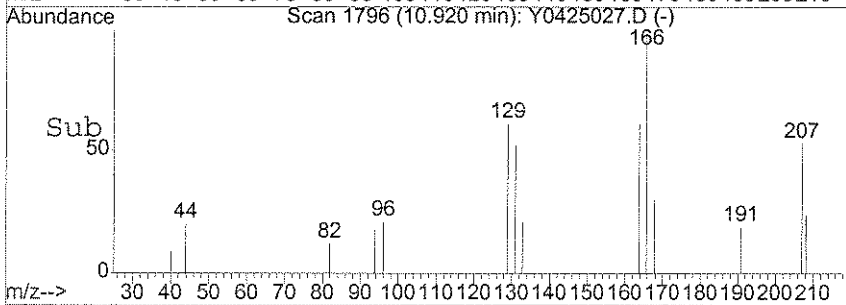
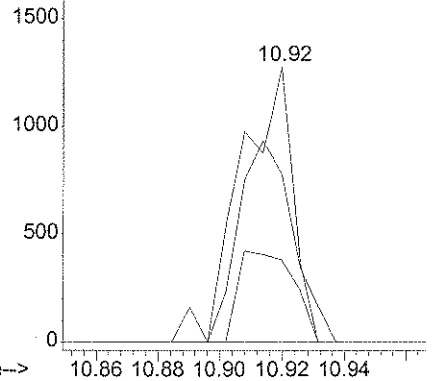


#60
 Tetrachloroethene
 Concen: 0.40 ug/l
 RT: 10.92 min Scan# 1796
 Delta R.T. 0.01 min
 Lab File: Y0425027.D
 Acq: 25 Apr 2008 18:01

Tgt Ion	Resp	Lower	Upper
166	1488		
166	100		
164	76.1	63.3	94.9
168	34.5	39.6	59.4#

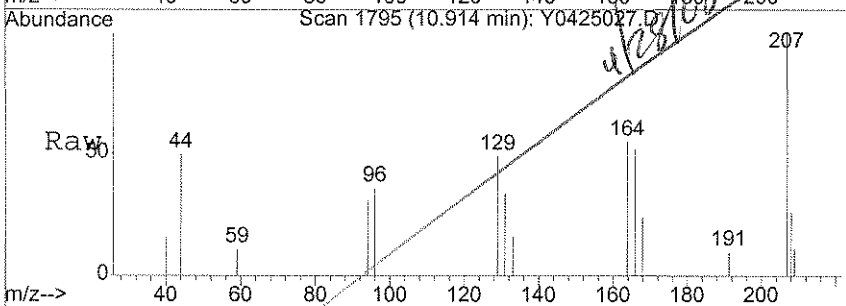


Abundance Ion 165.95 (165.65 to 166.65): Y042502
 Ion 163.95 (163.65 to 164.65): Y042502
 Ion 167.95 (167.65 to 168.65): Y042502

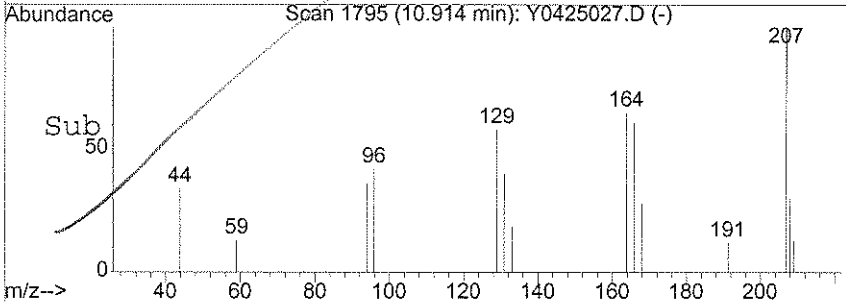
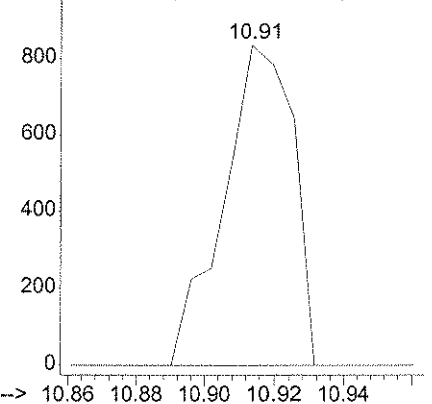


#63
 Dibromochloromethane
 Concen: 0.43 ug/l
 RT: 10.91 min Scan# 1795
 Delta R.T. -0.25 min
 Lab File: Y0425027.D
 Acq: 25 Apr 2008 18:01

Tgt Ion	Resp	Lower	Upper
129	1150		
129	100		
127	0.0	58.9	98.9#



Abundance Ion 129.00 (128.70 to 129.70): Y042502
 Ion 127.00 (126.70 to 127.70): Y042502



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-02-04/23/08

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-006
 Lab File ID: Y0425028.D
 Date Collected: 04/23/2008
 Date/Time Analyzed: 04/25/2008 18:26
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-02-04/23/08

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-006
 Lab File ID: Y0425028.D
 Date Collected: 04/23/2008
 Date/Time Analyzed: 04/25/2008 18:26
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-02-04/23/08

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-006
 Lab File ID: Y0425028.D
 Date Collected: 04/23/2008
 Date/Time Analyzed: 04/25/2008 18:26
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

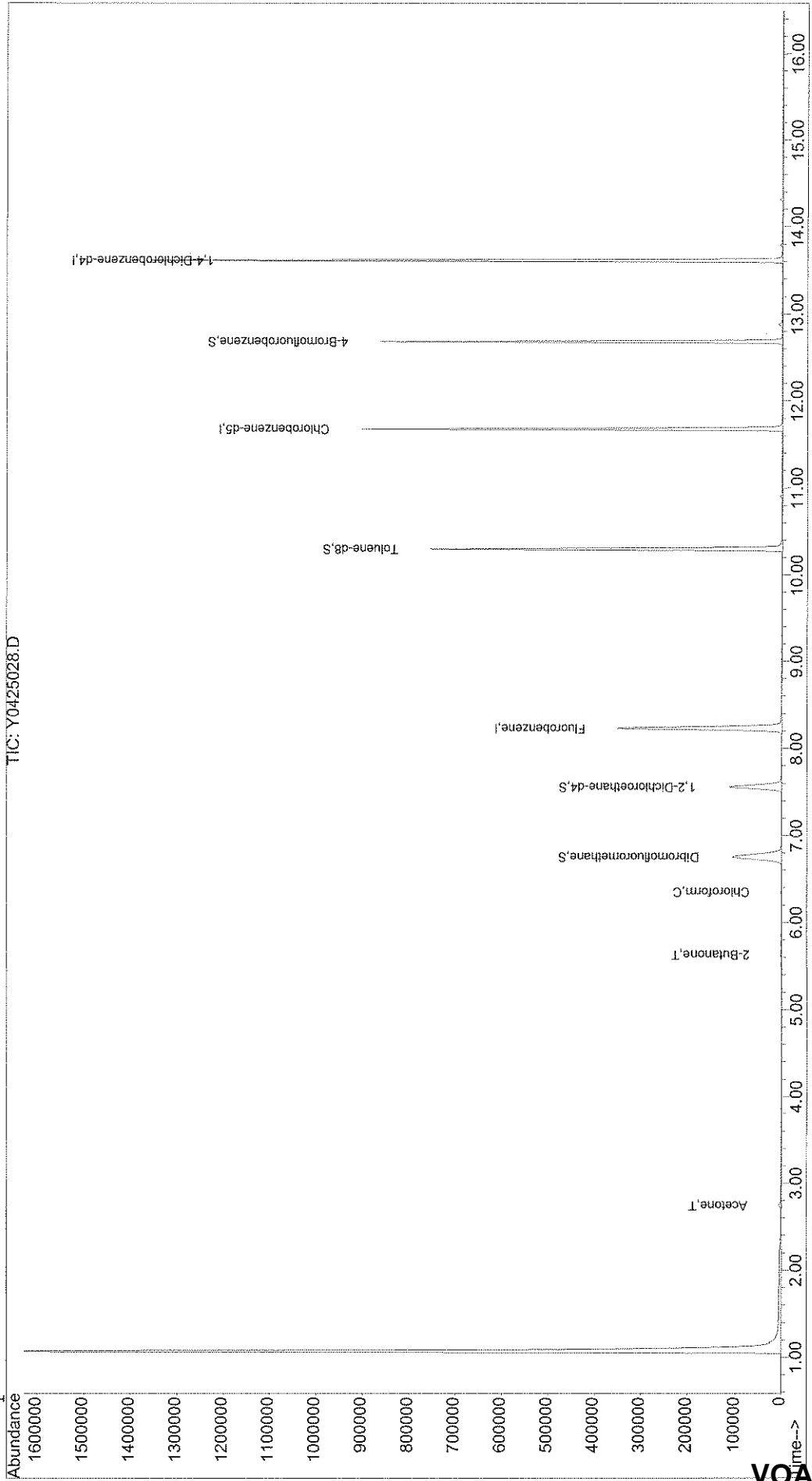
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425028.D Vial: 23
Acq On : 25 Apr 2008 18:26 Operator: LPM
Sample : JPL99-006 Inst : yoda
Misc : #3 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 8:24 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425028.D
 Acq On : 25 Apr 2008 18:26
 Sample : JPL99-006
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:24 2008

Vial: 23
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	413697	50.00	ug/l	0.00	81.02%
54) Chlorobenzene-d5	11.68	82	217240	50.00	ug/l	0.00	88.82%
74) 1,4-Dichlorobenzene-d4	13.61	152	303105	50.00	ug/l	0.00	86.49%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	140083	51.76	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	103.52%	
40) 1,2-Dichloroethane-d4	7.56	65	133206	51.53	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.06%	
55) Toluene-d8	10.30	98	452296	48.08	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	96.16%	
76) 4-Bromofluorobenzene	12.68	95	202167	51.31	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	102.62%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	63	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	1.74	96	80	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	2.64	96	57	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.74	43	8133	8.26	ug/l	99
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	95	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.27	84	78	Below Cal	#	1
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.	d	
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

[Handwritten signature]

(#) = qualifier out of range (m) = manual integration
 Y0425028.D Y8260W.M Mon Apr 28 08:24:48 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425028.D
 Acq On : 25 Apr 2008 18:26
 Sample : JPL99-006
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:24 2008

Vial: 23
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0	N.D.		
24) Vinyl acetate	0.00	43	0	N.D.		
25) Chloroprene	0.00	53	0	N.D.		
26) Isopropyl ether	0.00	45	0	N.D.		
27) Ethyl-t-butyl ether	0.00	59	0	N.D.		
28) 2,2-Dichloropropane	0.00	77	0	N.D.		
29) cis-1,2-Dichloroethene	5.50	96	78	N.D.		
30) 2-Butanone	5.63	43	2230	2.04	ug/l #	72
31) Propionitrile	0.00	54	0	N.D.		
32) Bromochloromethane	0.00	128	0	N.D.		
33) Methacrylonitrile	0.00	41	0	N.D.		
34) Chloroform	6.36	83	1287	0.21	ug/l #	44
35) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
37) Cyclohexane	0.00	56	0	N.D.		
38) Carbon Tetrachloride	0.00	117	0	N.D.		
39) 1,1-Dichloropropene	0.00	75	0	N.D.		
41) Benzene	7.77	78	56	N.D.		
42) 1,2-Dichloroethane	7.56	62	55	N.D.		
43) Isobutanol	0.00	43	0	N.D.		
44) t-amyl methyl ether	0.00	73	0	N.D.		
45) Trichloroethene	8.85	130	56	N.D.		
46) Methylcyclohexane	9.03	83	55	N.D.		
47) 1,2-Dichloropropane	0.00	63	0	N.D.		
48) Dibromomethane	0.00	93	0	N.D.		
49) Methyl methacrylate	0.00	41	0	N.D.		
50) Bromodichloromethane	0.00	83	0	N.D.		
51) 2-Chloroethyl vinyl ether	0.00	63	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	10.23	43	191	N.D.		
56) Toluene	10.37	92	237	N.D.		
57) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
58) Ethyl methacrylate	0.00	69	0	N.D.		
59) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
60) Tetrachloroethene	0.00	166	0	N.D.		
61) 1,3-Dichloropropane	0.00	76	0	N.D.		
62) 2-Hexanone	11.07	43	152	N.D.		
63) Dibromochloromethane	0.00	129	0	N.D.		
64) 1,2-Dibromoethane	0.00	107	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) 1-Chlorohexane	0.00	91	0	N.D.	d	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

4/28/08 LPM

(#) = qualifier out of range (m) = manual integration
 Y0425028.D Y8260W.M Mon Apr 28 08:24:49 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425028.D
 Acq On : 25 Apr 2008 18:26
 Sample : JPL99-006
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:24 2008

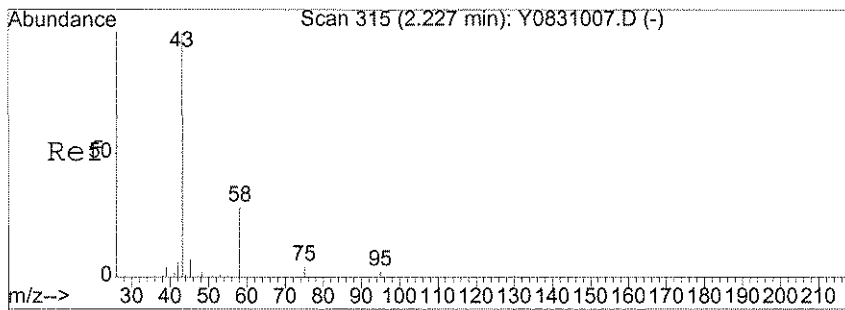
Vial: 23
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

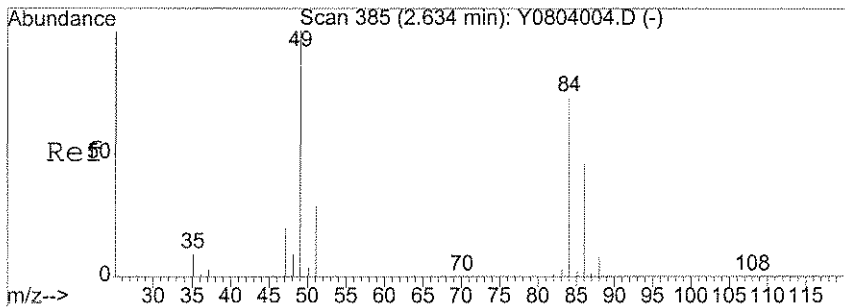
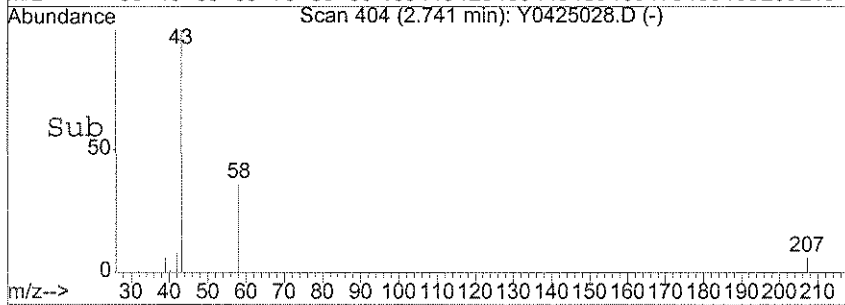
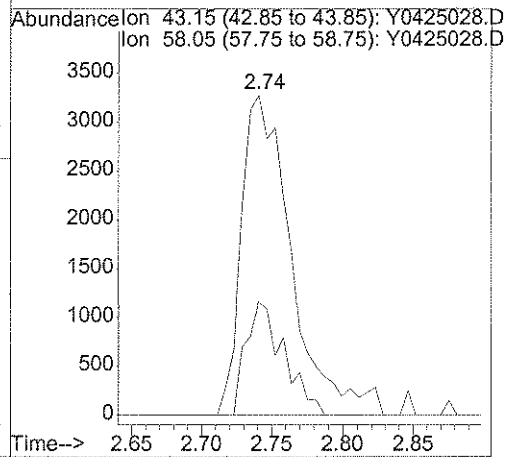
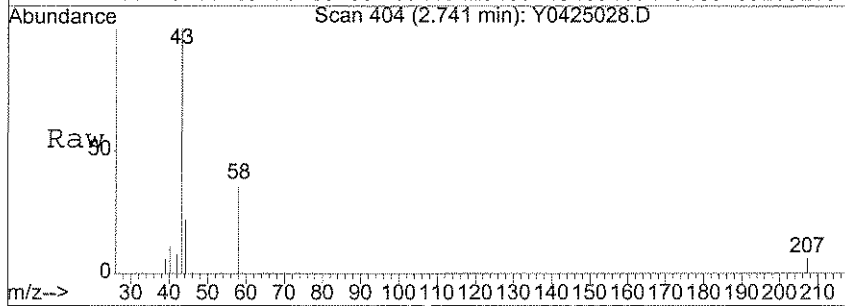
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.92	91	382		N.D.	
69) m,p-Xylene	11.91	106	85		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.68	105	82		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.69	156	61		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.69	83	58		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.68	91	768		N.D.	
82) 4-Chlorotoluene	0.00	91	0		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.55	146	80		N.D.	
88) 4-Isopropyltoluene	13.60	119	420		N.D.	
89) 1,4-Dichlorobenzene	13.62	146	60		N.D.	
90) 1,2-Dichlorobenzene	0.00	146	0		N.D.	
91) n-Butylbenzene	13.90	91	155		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.31	75	67		N.D.	
93) 1,2,4-Trichlorobenzene	0.00	180	0		N.D.	
94) Hexachlorobutadiene	0.00	225	0		N.D.	
95) Naphthalene	15.35	128	57		N.D.	
96) 1,2,3-Trichlorobenzene	0.00	180	0		N.D.	

4/28/08 LPM



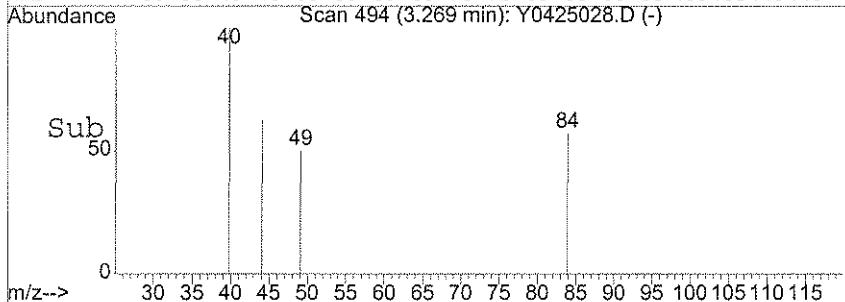
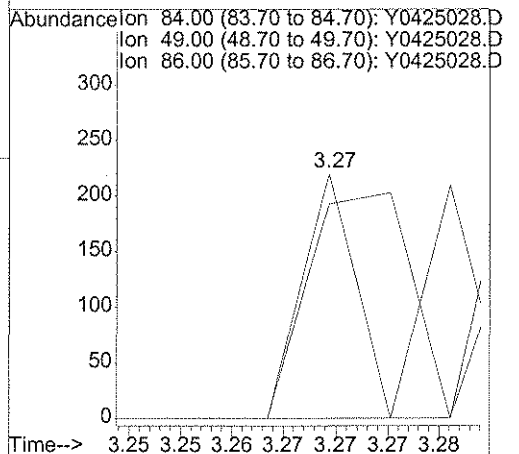
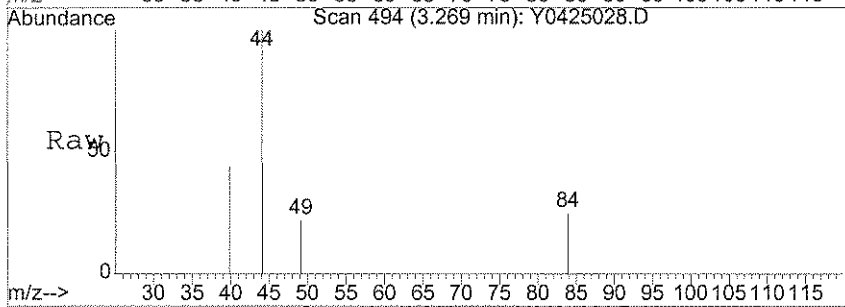
#11
 Acetone
 Concen: 8.26 ug/l
 RT: 2.74 min Scan# 404
 Delta R.T. 0.01 min
 Lab File: Y0425028.D
 Acq: 25 Apr 2008 18:26

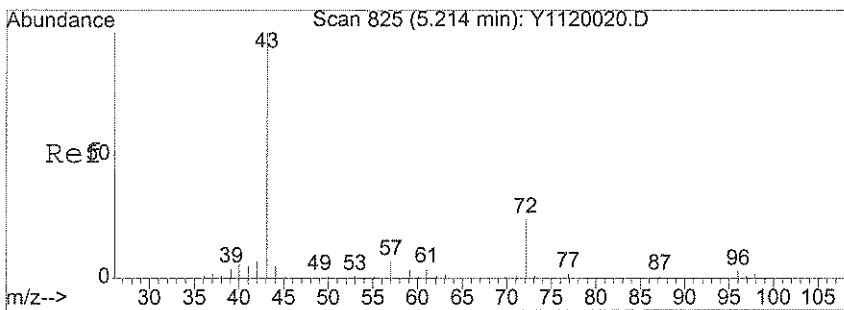
Tgt Ion	Resp	Lower	Upper
43	100		
58	26.9	21.3	31.9



#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.27 min Scan# 494
 Delta R.T. 0.00 min
 Lab File: Y0425028.D
 Acq: 25 Apr 2008 18:26

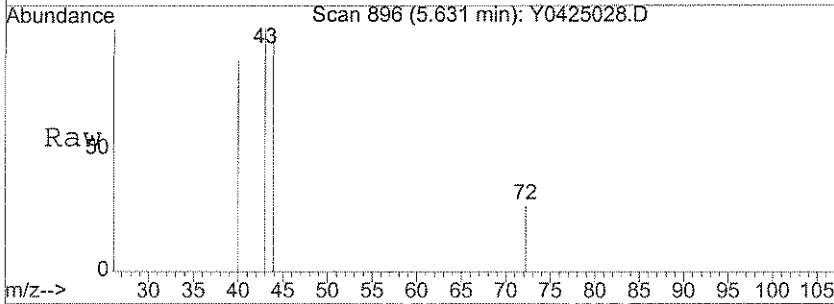
Tgt Ion	Resp	Lower	Upper
84	100		
49	0.0	112.5	152.5#
86	0.0	39.5	79.5#



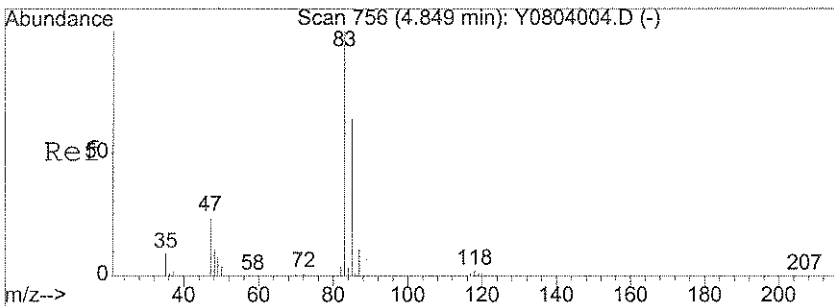
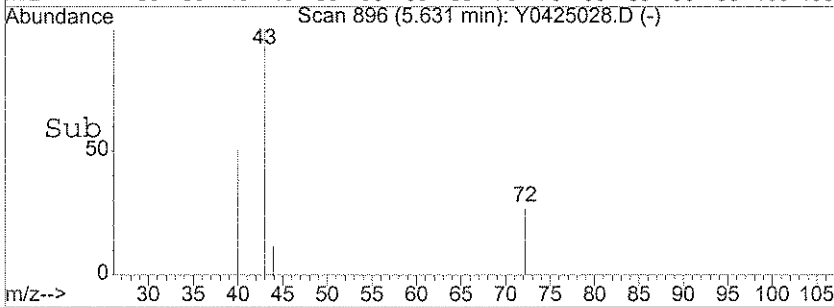
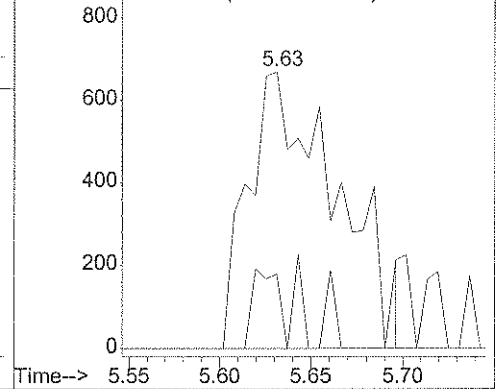


#30
 2-Butanone
 Concen: 2.04 ug/l
 RT: 5.63 min Scan# 896
 Delta R.T. 0.03 min
 Lab File: Y0425028.D
 Acq: 25 Apr 2008 18:26

Tgt Ion	Ratio	Lower	Upper
43	100		
72	8.5	19.8	29.6#
57	3.0	6.6	9.8#

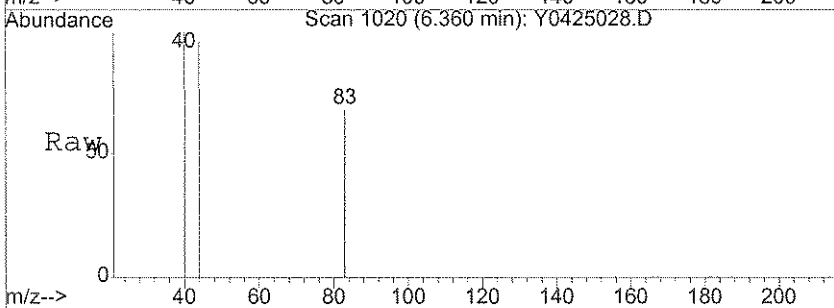


Abundance Ion 43.15 (42.85 to 43.85): Y0425028.D
 Ion 72.15 (71.85 to 72.85): Y0425028.D
 Ion 57.00 (56.70 to 57.70): Y0425028.D

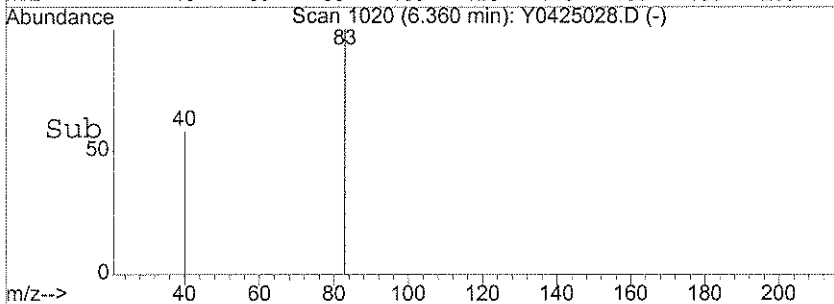
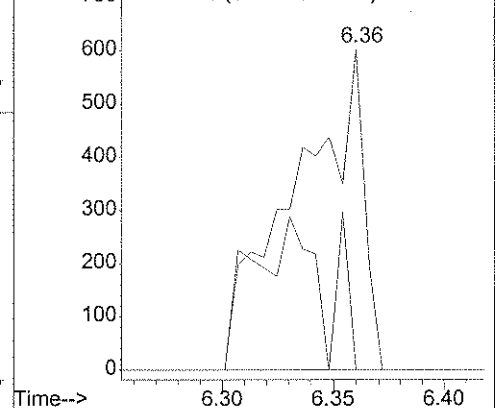


#34
 Chloroform
 Concen: 0.21 ug/l
 RT: 6.36 min Scan# 1020
 Delta R.T. 0.02 min
 Lab File: Y0425028.D
 Acq: 25 Apr 2008 18:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	20.1	43.3	83.3#



Abundance Ion 83.00 (82.70 to 83.70): Y0425028.D
 Ion 700 Ion 85.00 (84.70 to 85.70): Y0425028.D



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-02-04/23/08

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-007
 Lab File ID: Y0425022.D
 Date Collected: 04/23/2008
 Date/Time Analyzed: 04/25/2008 15:57
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-02-04/23/08

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-007
 Lab File ID: Y0425022.D
 Date Collected: 04/23/2008
 Date/Time Analyzed: 04/25/2008 15:57
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-02-04/23/08

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-007
 Lab File ID: Y0425022.D
 Date Collected: 04/23/2008
 Date/Time Analyzed: 04/25/2008 15:57
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

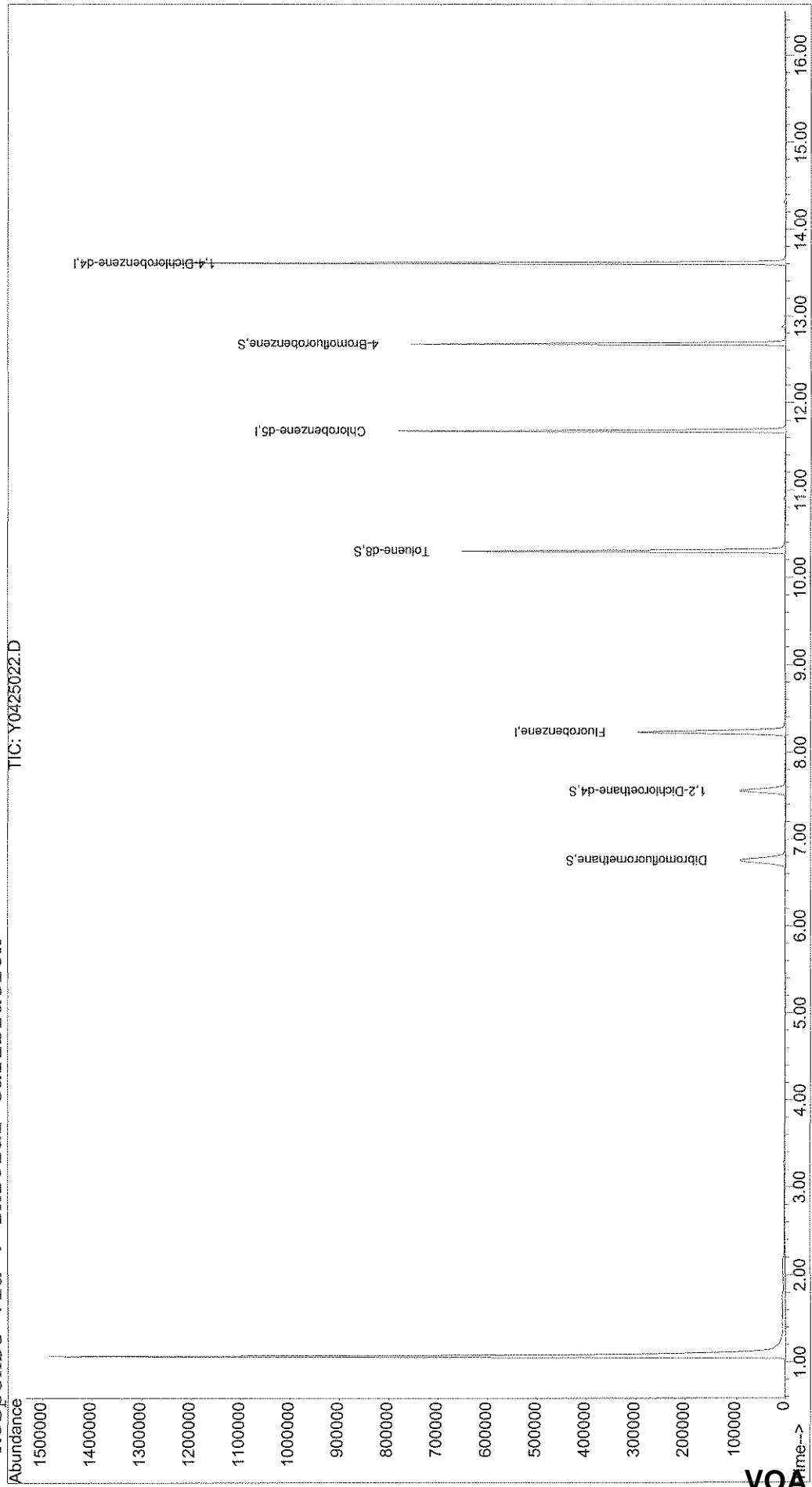
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425022.D Vial: 17
Acq On : 25 Apr 2008 15:57 Operator: LPM
Sample : JPL99-007 Inst : Yoda
Misc : #1 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 28 8:03 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425022.D
 Acq On : 25 Apr 2008 15:57
 Sample : JPL99-007
 Misc : #1 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:03 2008

Vial: 17
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	357045	50.00	ug/l	0.00 69.92%
54) Chlorobenzene-d5	11.68	82	191958	50.00	ug/l	0.00 78.48%
74) 1,4-Dichlorobenzene-d4	13.61	152	279540	50.00	ug/l	0.00 79.76%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	122160	52.30	ug/l	0.00
Spiked Amount	50.000	Range	85 - 115	Recovery	=	104.60%
40) 1,2-Dichloroethane-d4	7.56	65	115144	51.61	ug/l	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.22%
55) Toluene-d8	10.30	98	387465	46.62	ug/l	0.00
Spiked Amount	50.000	Range	85 - 120	Recovery	=	93.24%
76) 4-Bromofluorobenzene	12.68	95	179458	49.38	ug/l	0.00
Spiked Amount	50.000	Range	75 - 120	Recovery	=	98.76%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	0.00	50	0	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	0.00	43	0	N.D.	d	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.88	76	54	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.28	84	1345	Below Cal		95
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

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

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425022.D
 Acq On : 25 Apr 2008 15:57
 Sample : JPL99-007
 Misc : #1 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:03 2008

Vial: 17
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	4.42	43	62		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	5.57	43	116		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.63	78	66		N.D.	
42) 1,2-Dichloroethane	7.58	62	79		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	8.82	130	55		N.D.	
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.29	92	53		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.15	43	56		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	0.00	112	0		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	11.91	131	64		N.D.	

4/28/08 LPM

(#) = qualifier out of range (m) = manual integration
 Y0425022.D Y8260W.M Mon Apr 28 08:03:58 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042508\Y0425022.D
 Acq On : 25 Apr 2008 15:57
 Sample : JPL99-007
 Misc : #1 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: Apr 28 8:03 2008

Vial: 17
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.67	91	660		N.D.	
69) m,p-Xylene	11.92	106	55		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.56	105	134		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	0.00	156	0		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.90	91	114		N.D.	
82) 4-Chlorotoluene	12.90	91	114		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.62	146	54		N.D.	
88) 4-Isopropyltoluene	13.59	119	320		N.D.	
89) 1,4-Dichlorobenzene	13.62	146	54		N.D.	
90) 1,2-Dichlorobenzene	13.62	146	54		N.D.	
91) n-Butylbenzene	13.91	91	200		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	0.00	180	0		N.D.	
94) Hexachlorobutadiene	0.00	225	0		N.D.	
95) Naphthalene	15.36	128	64		N.D.	
96) 1,2,3-Trichlorobenzene	0.00	180	0		N.D.	

4/28/08 LPM

TIC FORMS

SDG JPL99

VOLATILES ANALYSIS

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-22-5

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-001
 Lab File ID: Y0425023.D
 Date Collected: 04/23/2008
 Date Analyzed: 04/25/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
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16				
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28				
29				
30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042508\Y0425023.D Vial: 18
Acq On : 25 Apr 2008 16:22 Operator: LPM
Sample : JPL99-001 Inst : yoda
Misc : #3 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0425023.D Y8260W.M Mon Apr 28 08:05:39 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-22-4

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-002
 Lab File ID: Y0425024.D
 Date Collected: 04/23/2008
 Date Analyzed: 04/25/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
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29				
30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042508\Y0425024.D Vial: 19
Acq On : 25 Apr 2008 16:47 Operator: LPM
Sample : JPL99-002 Inst : yoda
Misc : #4 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0425024.D Y8260W.M Mon Apr 28 08:06:18 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-22-3

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-003
 Lab File ID: Y0425025.D
 Date Collected: 04/23/2008
 Date Analyzed: 04/25/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
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11				
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29				
30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042508\Y0425025.D Vial: 20
Acq On : 25 Apr 2008 17:12 Operator: LPM
Sample : JPL99-003 Inst : yoda
Misc : #2 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0425025.D Y8260W.M Mon Apr 28 08:07:01 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-22-2

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-004
 Lab File ID: Y0425026.D
 Date Collected: 04/23/2008
 Date Analyzed: 04/25/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
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30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042508\Y0425026.D Vial: 21
Acq On : 25 Apr 2008 17:36 Operator: LPM
Sample : JPL99-004 Inst : yoda
Misc : #2 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0425026.D Y8260W.M Mon Apr 28 08:23:00 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-22-1

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-005
 Lab File ID: Y0425027.D
 Date Collected: 04/23/2008
 Date Analyzed: 04/25/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
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28				
29				
30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042508\Y0425027.D Vial: 22
Acq On : 25 Apr 2008 18:01 Operator: LPM
Sample : JPL99-005 Inst : yoda
Misc : #3 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0425027.D Y8260W.M Mon Apr 28 08:23:56 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-02-04/23/08

Lab Name: Pace Analytical Services
 SDG No.: JPL99
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027585
 Lab Sample ID: JPL99-006
 Lab File ID: Y0425028.D
 Date Collected: 04/23/2008
 Date Analyzed: 04/25/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
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29				
30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042508\Y0425028.D Vial: 23
Acq On : 25 Apr 2008 18:26 Operator: LPM
Sample : JPL99-006 Inst : yoda
Misc : #3 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0425028.D Y8260W.M Mon Apr 28 08:26:04 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-02-04/23/08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL99

Run Sequence: R027585

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL99-007

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0425022.D

Level: (LOW/MED) _____

Date Collected: 04/23/2008

% Moisture: not dec. _____

Date Analyzed: 04/25/2008

GC Column: DB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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26					
27					
28					
29					
30					

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042508\Y0425022.D Vial: 17
Acq On : 25 Apr 2008 15:57 Operator: LPM
Sample : JPL99-007 Inst : yoda
Misc : #1 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0425022.D Y8260W.M Mon Apr 28 08:04:02 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B042508MVOWY1

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL99

Run Sequence: R027585

Matrix: (SOIL/WATER) Water

Lab Sample ID: B042508MVOWY1

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0425010.D

Level: (LOW/MED) _____

Date Collected: _____

% Moisture: not dec. _____

Date Analyzed: 04/25/2008

GC Column: DB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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27					
28					
29					
30					

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042508\Y0425010.D Vial: 5
Acq On : 25 Apr 2008 10:51 Operator: LPM
Sample : B042508MVOWY1 Inst : yoda
Misc : 5mL PFW+IS/SS(MV8-45-10) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0425010.D Y8260W.M Mon Apr 28 10:17:32 2008

Metals Data

JPL99

COVER PAGE-INORGANIC ANALYSES DATA PACKAGE

Lab Name: Pace Analytical Services, Inc.

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL99

SOW No.: _____

Sample No.	Lab Sample ID
<u>MW-22-5</u>	<u>JPL99-001</u>
<u>MW-22-5MS</u>	<u>JPL99-001MS</u>
<u>MW-22-5MSD</u>	<u>JPL99-001MSD</u>
<u>MW-22-4</u>	<u>JPL99-002</u>
<u>MW-22-3</u>	<u>JPL99-003</u>
<u>MW-22-2</u>	<u>JPL99-004</u>
<u>MW-22-1</u>	<u>JPL99-005</u>
<u>EB-02-04/23/08</u>	<u>JPL99-006</u>
<u>EB-02-04/23/08MS</u>	<u>JPL99-006MS</u>
<u>EB-02-04/23/08MSD</u>	<u>JPL99-006MSD</u>

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No NO

If yes-was raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is technically complete, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: *Jennifer Lamana*

Name: *Jennifer L. Arcona*

Date: *6/9/08*

Title: *chemist*

Metals Analysis Data Sheets

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-22-5

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorinLab Code: PACESDG No.: JPL99Matrix (soil/water): WaterLab Sample ID: JPL99-001Level (low/med): LOWDate Received: 04/24/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R027854
7440-70-2	Calcium	5000	U		P	R028073
7440-47-3	Chromium	2.67			M	R027854
7439-89-6	Iron	100	U		P	R028073
7439-92-1	Lead	1.00	U		M	R027854
7439-95-4	Magnesium	5000	U		P	R028073
7440-09-7	Potassium	5000	U		P	R028073
7440-23-5	Sodium	75800			P	R028073

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: NoComment _____

Date Printed: 6/5/2008 14:18

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-22-4

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL99

Matrix (soil/water): Water

Lab Sample ID: JPL99-002

Level (low/med): LOW

Date Received: 04/24/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.15			M	R027854
7440-70-2	Calcium	38100			P	R028073
7440-47-3	Chromium	8.21			M	R027854
7439-89-6	Iron	100	U		P	R028073
7439-92-1	Lead	1.00	U		M	R027854
7439-95-4	Magnesium	11100			P	R028073
7440-09-7	Potassium	5000	U		P	R028073
7440-23-5	Sodium	32100			P	R028073

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/5/2008 14:18

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-22-3

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorinLab Code: PACESDG No.: JPL99Matrix (soil/water): WaterLab Sample ID: JPL99-003Level (low/med): LOWDate Received: 04/24/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.02			M	R027854
7440-70-2	Calcium	58800			P	R028073
7440-47-3	Chromium	8.16			M	R027854
7439-89-6	Iron	100	U		P	R028073
7439-92-1	Lead	1.00	U		M	R027854
7439-95-4	Magnesium	19200			P	R028073
7440-09-7	Potassium	5000	U		P	R028073
7440-23-5	Sodium	39500			P	R028073

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: NoComment _____

Date Printed: 6/5/2008 14:18

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-22-2

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL99

Matrix (soil/water): Water

Lab Sample ID: JPL99-004

Level (low/med): LOW

Date Received: 04/24/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.19			M	R027854
7440-70-2	Calcium	54300			P	R028073
7440-47-3	Chromium	7.58			M	R027854
7439-89-6	Iron	100	U		P	R028073
7439-92-1	Lead	1.00	U		M	R027854
7439-95-4	Magnesium	21000			P	R028073
7440-09-7	Potassium	5000	U		P	R028073
7440-23-5	Sodium	30200			P	R028073

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/5/2008 14:18

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-22-1

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL99

Matrix (soil/water): Water

Lab Sample ID: JPL99-005

Level (low/med): LOW

Date Received: 04/24/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R027854
7440-70-2	Calcium	145000			P	R028073
7440-47-3	Chromium	9.16			M	R027854
7439-89-6	Iron	100	U		P	R028073
7439-92-1	Lead	1.00	U		M	R027854
7439-95-4	Magnesium	50600			P	R028073
7440-09-7	Potassium	5000	U		P	R028073
7440-23-5	Sodium	35900			P	R028073

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/5/2008 14:18

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-02-04/23/08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL99

Matrix (soil/water): Water

Lab Sample ID: JPL99-006

Level (low/med): LOW

Date Received: 04/24/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028099
7440-70-2	Calcium	5000	U		P	R028073
7440-47-3	Chromium	1.00	U		M	R028099
7439-89-6	Iron	100	U		P	R028073
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	5000	U		P	R028073
7440-09-7	Potassium	5000	U		P	R028073
7440-23-5	Sodium	5000	U		P	R028073

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/5/2008 14:18

Miscellaneous Inorganic Data

JPL99

COVER PAGE-INORGANIC ANALYSES DATA PACKAGE

Lab Name: Pace Analytical Services, Inc.

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL99

SOW No.: _____

<u>Sample No.</u>
<u>MW-22-5</u>
<u>MW-22-4</u>
<u>MW-22-3</u>
<u>MW-22-2</u>
<u>MW-22-1</u>
<u>EB-02-04/23/08</u>

<u>Lab Sample ID</u>
<u>JPL99-001</u>
<u>JPL99-002</u>
<u>JPL99-003</u>
<u>JPL99-004</u>
<u>JPL99-005</u>
<u>JPL99-006</u>

Comments:

I certify that this data package is technically complete, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: 

Name: Raul J. Nino

Date: May 28, 2008

Title: Inorganic Supervisor

Inorganic Analysis Data Sheets

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring
 SDG Number: JPL99
 Sample Number: MW-22-5 Date/Time Collected: 04/23/2008 08:45
 Lab Sample ID: JPL99-001 Date/Time Received: 04/24/2008 09:45
 Method/Qbatch*: E150.1/28761 Unit: pH Units
 Instrument: pH meter (1) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	9.2		0.10	0.10	04/24/2008	04/24/2008	R027573

Method/Qbatch*: E160.1/28755 Unit: mg/L
 Instrument: Balance (01) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	210		2.0	2.0	04/25/2008	04/29/2008	R027568

Method/Qbatch*: E300.0/28763 Unit: mg/L
 Instrument: Ion Chromatograph (2) File: R027575\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.20	U	0.20	0.055	04/24/2008	04/24/2008	R027575
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/24/2008	04/24/2008	R027575
Sulfate as SO ₄	14808-79-8	10	37		10	1.7	04/24/2008	04/24/2008	R027575
Chloride	16887-00-6	1	8.8		1.0	0.076	04/24/2008	04/24/2008	R027575
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/24/2008	04/24/2008	R027575

Method/Qbatch*: E310.1/29032 Unit: mg/L
 Instrument: None File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO ₃)	3812-32-6	1	60		2.0	2.0	05/05/2008	05/05/2008	R027831
Alkalinity, Bicarbonate (As CaCO ₃)	71-52-3	1	44		2.0	2.0	05/05/2008	05/05/2008	R027831

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL99
Sample Number: MW-22-5 **Date/Time Collected:** 04/23/2008 08:45
Lab Sample ID: JPL99-001 **Date/Time Received:** 04/24/2008 09:45
Method/Qbatch*: E314.0/29062 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	05/05/2008	05/06/2008	R027860

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring
 SDG Number: JPL99
 Sample Number: MW-22-4 Date/Time Collected: 04/23/2008 09:27
 Lab Sample ID: JPL99-002 Date/Time Received: 04/24/2008 09:45
 Method/Qbatch*: E150.1/28761 Unit: pH Units
 Instrument: pH meter (1) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.9		0.10	0.10	04/24/2008	04/24/2008	R027573

Method/Qbatch*: E160.1/28755 Unit: mg/L
 Instrument: Balance (01) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	230		2.0	2.0	04/25/2008	04/29/2008	R027568

Method/Qbatch*: E300.0/28763 Unit: mg/L
 Instrument: Ion Chromatograph (2) File: R027575\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	3.2		0.20	0.055	04/24/2008	04/24/2008	R027575
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/24/2008	04/24/2008	R027575
Sulfate as SO4	14808-79-8	1	15		1.0	0.17	04/24/2008	04/24/2008	R027575
Chloride	16887-00-6	10	13		10	0.76	04/24/2008	04/24/2008	R027575
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/24/2008	04/24/2008	R027575

Method/Qbatch*: E310.1/29032 Unit: mg/L
 Instrument: None File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/05/2008	05/05/2008	R027831
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	150		2.0	2.0	05/05/2008	05/05/2008	R027831

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring
SDG Number: JPL99
Sample Number: MW-22-4 Date/Time Collected: 04/23/2008 09:27
Lab Sample ID: JPL99-002 Date/Time Received: 04/24/2008 09:45
Method/Qbatch*: E314.0/29062 Unit: ug/L
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	05/05/2008	05/06/2008	R027860

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL99
Sample Number: MW-22-3 **Date/Time Collected:** 04/23/2008 10:06
Lab Sample ID: JPL99-003 **Date/Time Received:** 04/24/2008 09:45
Method/Qbatch*: E150.1/28761 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.9		0.10	0.10	04/24/2008	04/24/2008	R027573

Method/Qbatch*: E160.1/28755 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	360		2.0	2.0	04/25/2008	04/29/2008	R027568

Method/Qbatch*: E300.0/28763 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027575\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	10	6.4		2.0	0.55	04/24/2008	04/24/2008	R027575
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/24/2008	04/24/2008	R027575
Sulfate as SO4	14808-79-8	10	51		10	1.7	04/24/2008	04/24/2008	R027575
Chloride	16887-00-6	10	45		10	0.76	04/24/2008	04/24/2008	R027575
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/24/2008	04/24/2008	R027575

Method/Qbatch*: E310.1/29032 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/05/2008	05/05/2008	R027831
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	180		2.0	2.0	05/05/2008	05/05/2008	R027831

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL99
Sample Number: MW-22-3 **Date/Time Collected:** 04/23/2008 10:06
Lab Sample ID: JPL99-003 **Date/Time Received:** 04/24/2008 09:45
Method/Qbatch*: E314.0/29232 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.9		2.0	0.28	05/12/2008	05/13/2008	R028009

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL99
Sample Number: MW-22-2 **Date/Time Collected:** 04/23/2008 10:45
Lab Sample ID: JPL99-004 **Date/Time Received:** 04/24/2008 09:45
Method/Qbatch*: E150.1/28761 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.9		0.10	0.10	04/24/2008	04/24/2008	R027573

Method/Qbatch*: E160.1/28755 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	330		2.0	2.0	04/25/2008	04/29/2008	R027568

Method/Qbatch*: E300.0/28763 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027575\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	10	6.6		2.0	0.55	04/24/2008	04/24/2008	R027575
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/24/2008	04/24/2008	R027575
Sulfate as SO4	14808-79-8	10	36		10	1.7	04/24/2008	04/24/2008	R027575
Chloride	16887-00-6	10	42		10	0.76	04/24/2008	04/24/2008	R027575
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/24/2008	04/24/2008	R027575

Method/Qbatch*: E310.1/29032 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/05/2008	05/05/2008	R027831
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	170		2.0	2.0	05/05/2008	05/05/2008	R027831

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL99
Sample Number: MW-22-2 **Date/Time Collected:** 04/23/2008 10:45
Lab Sample ID: JPL99-004 **Date/Time Received:** 04/24/2008 09:45
Method/Qbatch*: E314.0/29232 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.2		2.0	0.28	05/12/2008	05/13/2008	R028009

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL99
Sample Number: MW-22-1 **Date/Time Collected:** 04/23/2008 11:30
Lab Sample ID: JPL99-005 **Date/Time Received:** 04/24/2008 09:45
Method/Qbatch*: E150.1/28761 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.6		0.10	0.10	04/24/2008	04/24/2008	R027573

Method/Qbatch*: E160.1/28755 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	740		2.0	2.0	04/25/2008	04/29/2008	R027568

Method/Qbatch*: E300.0/28763 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027575\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	20	9.6		4.0	1.1	04/24/2008	04/24/2008	R027575
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/24/2008	04/24/2008	R027575
Sulfate as SO4	14808-79-8	20	160		20	3.4	04/24/2008	04/24/2008	R027575
Chloride	16887-00-6	20	120		20	1.5	04/24/2008	04/24/2008	R027575
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/24/2008	04/24/2008	R027575

Method/Qbatch*: E310.1/29032 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/05/2008	05/05/2008	R027831
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	200		2.0	2.0	05/05/2008	05/05/2008	R027831

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL99
Sample Number: MW-22-1 **Date/Time Collected:** 04/23/2008 11:30
Lab Sample ID: JPL99-005 **Date/Time Received:** 04/24/2008 09:45
Method/Qbatch*: E314.0/29232 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	05/12/2008	05/13/2008	R028009

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL99
Sample Number: EB-02-04/23/08 **Date/Time Collected:** 04/23/2008 11:10
Lab Sample ID: JPL99-006 **Date/Time Received:** 04/24/2008 09:45
Method/Qbatch*: E150.1/28761 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.1		0.10	0.10	04/24/2008	04/24/2008	R027573

Method/Qbatch*: E160.1/28755 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	12		2.0	2.0	04/25/2008	04/29/2008	R027568

Method/Qbatch*: E300.0/28763 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027575\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.20	U	0.20	0.055	04/24/2008	04/24/2008	R027575
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/24/2008	04/24/2008	R027575
Sulfate as SO4	14808-79-8	1	1.0	U	1.0	0.17	04/24/2008	04/24/2008	R027575
Chloride	16887-00-6	1	1.0	U	1.0	0.076	04/24/2008	04/24/2008	R027575
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/24/2008	04/24/2008	R027575

Method/Qbatch*: E310.1/29032 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/05/2008	05/05/2008	R027831
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	2.0		2.0	2.0	05/05/2008	05/05/2008	R027831

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL99
Sample Number: EB-02-04/23/08 **Date/Time Collected:** 04/23/2008 11:10
Lab Sample ID: JPL99-006 **Date/Time Received:** 04/24/2008 09:45
Method/Qbatch*: E314.0/29062 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	05/05/2008	05/06/2008	R027860

*QBatch=QC/Preparation Batch

PACE ANALYTICAL SERVICES, INC.

SAMPLE DATA PACKAGE

BATTELLE

SDG NO.: JPL100

June 10, 2008

Pace Analytical Services, Inc.

940 S. Harney
Seattle, WA 98108

To: Battelle
Project Name: JPL Groundwater
SDG No.: JPL100
Date of Report: June 10, 2008

SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:

Sample Receipt and Identification:

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<u>Client Sample Identification</u>	<u>Pace Sample Identification</u>	<u>Testing Analytical Request</u>
MW-4-5	JPL100-001	VOA/MET/INO
MW-4-4	JPL100-002	VOA/MET/INO
MW-4-3	JPL100-003	VOA/MET/INO
MW-4-2	JPL100-004	VOA/MET/INO
MW-4-1	JPL100-005	VOA/SVOA/MET/INO
EB-03-4/24/08	JPL100-006	VOA/MET/INO
DUPE-1-2Q08	JPL100-007	VOA/SVOA/MET/INO
TB-03-4/24/08	JPL100-008	VOA

Analytical Request Key:

VOA = Volatiles (524.2)
SVOA = 1,4-Dioxane (8270)
MET = Metals (200.7/200.8)
INO = Chloride, Nitrate, Nitrite, Sulfate, Orthophosphate (300.0)
Alkalinity (310.1)
Perchlorate (314.0)
Total Dissolved Solids (160.1)
pH (150.1)

Summary of NELAC test accreditation

Determination	NELAC approved
TurMet for 200.7/200.8 TurMet	NO
150.1 pH	YES
160.1 Total Dissolved Solids	YES
200.7 K, Na, Mg, Ca, Fe	YES
200.8 As, Cr, Pb	YES
300.0 NO3, NO2, Cl, SO4, OPO4	YES
310.1M Carb./Bicarb. Alkalinity	YES

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Seattle, WA 98108

314.0 Perchlorate	YES
524.2 Volatile Organics + TICs (JPL Special list)	YES
8270SIM-level 1,4-Dioxane (1.5 ppb RL; J to 1 ppb)	YES

Sample Receipt Comments:

The following discrepancies were noted in association with the receipt of these samples.

All samples received for pH analysis were received after the analytical holding time had expired except for MW-4-1 which went out of hold when the samples were being logged in.

Several samples received for volatiles analysis contained bubbles in the VOA vials less and more than ¼" in size. See the sample receipt logs for documentation.

GENERAL REMARKS ON ORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

Manual Integrations:

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

Holding Time Compliance:

Volatile Organic Compounds:

The holding time is 14 days calculated from date of collection in both soil and water samples. All samples were analyzed within holding time.

Semi-Volatile Organic Compounds:

The holding time to extraction is 7 days in water and 14 days in soil calculated from the date of collection. In either case, the holding time from extraction to analysis is 40 days. All samples were extracted and analyzed within holding time.

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Volatiles Fraction:

Initial Calibration Verification:

In the ICV (ICV041408MVOWY1) performed on 4/14/2008 dichlorodifluoromethane exceeded 25% due to decreased response. Because the low recovery may have been due to degradation in the standard mix, a second ICV (S041508MVOWY2) was prepared and analyzed on the following day. The recovery for dichlorodifluoromethane was within 25%, but the recovery for cis-1,3-dichloropropene exceeded 25% due to increased response. This analyte was not detected in the associated samples. No further action was taken. Data from both ICVs were submitted.

Continuing Calibration Verification (CCV):

In the CCV performed on 4/30/2008 the percent D value for cis-1,3-dichloropropene exceeded 20% due to increased response. This analyte was not detected in any associated samples; no further action was taken.

Semivolatiles Fraction:

Surrogate Recoveries:

Analysis of the method blank, B042908MSVWLS yielded a low recovery for 2-fluorobiphenyl. Normally, the samples would be re-extracted and reanalyzed; however, due to insufficient sample available, re-extraction was not performed.

GENERAL REMARKS ON INORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

ICP and ICP-MS Metals:

On the first timed and dated page of each ICP and ICP-MS run, the data to be reported or rejected will be tabulated for that run.

SPECIFIC REMARKS ON INORGANIC ANALYSES:

Holding Time Compliance:

Pace calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

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Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None
Chloride	28 days	None
Sulfate	28 days	None
Nitrate	48 hours	None
Nitrite	48 hours	None
Ortho phosphorus	48 hours	None
Alkalinity	14 days	None
Total Dissolved Solids	7 days	None
pH	24 hours	None

ICP Metals:

Iron was present in the batch preparation blank, B051208ICPW01, at a level greater than the CRDL. The single associated sample contained a concentration of iron that was greater than 20 times the blank level. No further corrective action was required. Data have not been flagged for this event.

The matrix spike sample sample percent recovery of iron was outside of the established control limits of 70-130% for sample MW-4-5. The sample concentration of this element exceeds the spike concentration by a factor of four or more, therefore no further corrective action was required. Data have not been flagged for this event.

The matrix spike and matrix spike duplicate sample percent recoveries of iron were outside of the established control limits of 70-130% for sample MW-4-3. The sample concentration of this element exceeds the spike concentrations by a factor of four or more, therefore no further corrective action was required. Data have not been flagged for these events.

The serial dilution for the element potassium did not agree within 10% of the original determination after correction for dilution for sample MW-4-3. No further corrective action was required. All relevant data have been flagged with an "E" on the applicable Forms I and IX.

ICP-MS Metals:

Chromium was present in the batch preparation blank, B051208ICPMSW02, at a level greater than 1/2 the CRDL. The CRDL for chromium is 1 ug/L. The client action level for chromium is 10 ug/L. The concentration of chromium in the batch preparation blank was 0.97 ug/L. Sample MW-4-3, which was associated with this blank, contained a low level of chromium and could be subject to a slightly high bias. Because the chromium result was less than the client action level, data have been reported as is. No further corrective action was taken. Data have not been flagged for this event.

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For the sample digested on 5/12/08, for method 200.8, multiple blank spikes were prepared by the analyst for training records. A blank spike and blank spike duplicate were reported per method requirements.

Miscellaneous Inorganics:

In the run sequence R027197 for "314.0 Perchlorate", the continuing calibration verification standards 1 and 2 exceeded the established upper control limits. The samples being reported within these bracketing continuing calibration verification standards were below the reporting limits, any samples that were detected above the reporting limit were re-analyzed.

In the run sequence R027594 for "300.0 Anions", the continuing calibration verification standard 5 exceeded the established upper control limits for sulfate. Since this continuing calibration verification standard did not bracket any of the samples, no further action was taken.

In the run sequence R027594 for "300.0 Anions", the matrix spike had exceeded the established lower control limits for nitrate, orthophosphate, and sulfate. The matrix spike duplicate had exceeded the lower established control limits for chloride, nitrate, orthophosphate, and sulfate. Since all of the other quality control samples were in control, no further action was taken.

In the run sequence R027860 for "314.0 Perchlorate", the initial calibration verification and continuing calibration verification standards 1 and 2 exceeded the established upper control limits. The samples being reported within these bracketing initial calibration verification and continuing calibration verification standards were below the reporting limits, any samples that were detected above the reporting limit were re-analyzed.

In the run sequence R027860 for "314.0 Perchlorate", the matrix spike and matrix spike duplicate had exceeded the upper established control limits. Since none of the samples reported were above the reporting limit, no further action was taken.

In the run sequence R027860 for "314.0 Perchlorate", the blank spike had exceeded the upper established control limits. Since none of the samples reported were above the reporting limit, no further action was taken.

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ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
 - J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
 - T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
 - E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
 - P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
 - C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
 - ~ This result has been identified as non-primary based on the analyst's professional judgment.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

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INORGANIC ANALYSES:

- J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.
 - E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.
 - N Spiked sample recovery not within control limits.
 - * Duplicate analysis not within control limits.
 - Z Denotes data deemed unusable by the analyst.
- CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

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RELEASE OF DATA

Pace Analytical Services, Inc. certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,


for
Kara Godineaux
Project Manager

6/10/08
(DATE)


Harry Romberg
Quality Assurance Officer

6/10/08
(DATE)

HOW TO CONTACT US:

All Pace Analytical Services, Inc. staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

REQUESTS FOR DUPLICATE COPIES:

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Pace will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

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ATTACHMENT A

Chain-of-Custody Copies

PACE ANALYTICAL SERVICES, INC. - SAMPLE CONFIRMATION LOG

Sample MxID (SDG- #)	VTSR	Collected On	Client ID	150.1 pH	160.1 Total Dissolved Solids	200.7 K, Na, Mg, Ca, Fe	200.8 As, Cr, Pb	300.0 NO ₃ , NO ₂ , Cl, SO ₄ , OPO ₄	310.1M Carb./Bicarb. Alkalinity	314.0 Perchlorate	524.2 Volatile Organics + TICS (JPL Special list)	8270SIM-level 1,4-Dioxane (1.5 ppb RL; J to 1 ppb)	TurMet for 200.7/200.8 TurMet
WD JPL100-001	04/25/2008 10:40 AM	04/24/2008 08:05 AM	MW-4-5	IN	IN	IN	IN	A-	IN	IN	IN		IN
WD JPL100-002	04/25/2008 10:40 AM	04/24/2008 08:39 AM	MW-4-4	IN	IN	IN	IN	A-	IN	IN	IN		IN
WD *JPL100-003	04/25/2008 10:40 AM	04/24/2008 09:15 AM	MW-4-3	IN	IN	IN	IN	A-	IN	IN	IN		IN
WD JPL100-004	04/25/2008 10:40 AM	04/24/2008 10:10 AM	MW-4-2	IN	IN	IN	IN	A-	IN	IN	IN		IN
WD JPL100-005	04/25/2008 10:40 AM	04/24/2008 10:48 AM	MW-4-1	IN	IN	IN	IN	A-	IN	IN	IN	IN	IN
WD JPL100-006	04/25/2008 10:40 AM	04/24/2008 10:29 AM	EB-03- 4/24/08	IN	IN	IN	IN	A-	IN	IN	IN		IN
WD JPL100-007	04/25/2008 10:40 AM	04/24/2008 12:00 AM	DUPE-1- 2Q08	IN	IN	IN	IN	A-	IN	IN	IN	IN	IN
WD JPL100-008	04/25/2008 10:40 AM	04/24/2008 12:00 AM	TB-03- 4/24/08								IN		

Approved By:

On:

Samples identified with a "*" client has requested QC for

LEGEND: -:Started , +:Completed , IN:Logged In , P:Preparation , A:Analysis , X:Cancelled, PL:Pre-logged

Matrices: Water=WD

FORM LTL-PM-8.0

COMPANY: BATTLE
 ADDRESS: 3990 OLD TOWN AVE, C-205
SAV DICKO, CA 92110
 ATTENTION: DAVID CAULER
 PROJECT NAME: SPL CW MAR 2008
 PROJECT CONTACT: DAVID CAULER
 TELEPHONE: 619-726-7311 FAX: _____
 JOB/P.O. NO.: 648090 / ~~214319~~

CHAIN OF CUSTODY RECORD SDG # _____
 46082 PAGE 1 OF 1

WORK ORDER ID# SPL 100 SUBMITTED AT: _____
15H7108

TESTS TO PERFORM

MATRIX: WATER, SOIL OR SPECIFY
 NO. OF CONTAINERS
 VOL (524.2)
 TOTAL Cr (200.8)
 LEAD (200.8)
 ARSENIC (200.8)
 CHLORIDE (314.0)
 DIOXANE (82.70)

Lauck's
 Testing Laboratories, Inc.
 940 South Hamoy St, Seattle WA 98108 (206) 767-5060 FAX 767-5063
 1106 Ledwith Ave, Yakima WA 98902 (509) 248-4895 FAX 452-1265

LAB SAM	SAMPLE ID / LOCATION	DATE	TIME	MATRIX	NO. OF CONTAINERS	TESTS TO PERFORM	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1	MW-4-5	4/10/08	805	W	5	X X X X X X X X X X	
2	MW-4-4		835	W	5	X X X X X X X X X X	
3	MW-4-3		915	W	10	X X X X X X X X X X	MS/MSD
4	MW-4-2		1010	W	5	X X X X X X X X X X	
5	MW-4-1		1048	W	6	X X X X X X X X X X	24HRS III RC
6	ERB-03 - 4/24/08		1029	W	5	X X X X X X X X X X	QUIP BLANK
8	7B-03 - 4/24/08		---	W	2	X X X X X X X X X X	QUIP BLANK
7	DUP-1 - 2008		---	W	6	X X X X X X X X X X	PREPARED BY OWNER

A. A standard turnaround time is assumed unless otherwise marked.
 B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

- INSTRUCTIONS
1. USE ONE LINE PER SAMPLE
 2. BE SPECIFIC IN TEST REQUESTS
 3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE

NAME: BOTTLE
 ADDRESS: 505 MILLS AVE.
 CITY, STATE, ZIP: COMBURY, OH 43201

* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL

TURNAROUND REQUEST
 STD. 10-14 WORKING DAYS
 24-48 HRS. (100% SUR)
 72 HRS. (75% SUR)
 5 DAYS (50% SUR)
 OTHER: _____
 TEMP: _____
 CUSTODY SEAL: Y N N/A

RELINQUISHED BY (SIGN AND PRINT): Mauro Amato
 DATE: 4/14/08
 RECEIVED BY (SIGN AND PRINT): Richard Frank
 DATE: 4/25/08

Cooler Receipt Form
Pace Analytical Services, Inc.

SDG: JPL100

Taken By: Client

Cooler: AAP091

Transferred: FedEx

COC #: 46082

Project: JPL Groundwater Monitoring (Battelle)

Date samples were received at the laboratory: 4/25/2008

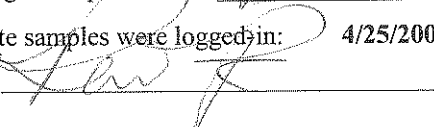
Date cooler was opened: 4/25/2008 10:40AM

A. PRELIMINARY EXAMINATION PHASE:

1. Did cooler come with a shipping slip (airbill, etc.)? YES
if YES, record carrier name and airbill number: 865543091294
2. Were custody seals unbroken and intact at the date and time of arrival? ABSENT
Date On Custody Seal: _____ Custody Seals Description: _____
3. Were custody papers sealed in a plastic bag and taped inside to the lid? YES
4. Did you screen samples for radioactivity using the Geiger Counter? NO
5. Were custody papers filled out properly (ink, signed, etc.)? YES
6. Did you sign custody papers in the appropriate place? YES
7. If required, was enough cooling material present? YES
8. Have designated person initial here to acknowledge receipt of cooler: RF

B. LOG-IN PHASE:

Date samples were logged in: 4/25/2008 12:15PM

Logged-in by Rachel Frank (sign) 

9. Describe type of packing in cooler:

10. Were all bottles sealed in separate plastic bags? NO
11. Were labels in good condition? YES
12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)? YES
13. Did all bottle labels agree with custody papers? YES
14. Were correct containers used for the tests indicated? YES
15. Were the correct pHs observed? YES
16. Was a sufficient amount of sample sent for tests indicated? YES
17. Were bubbles absent in VOA samples? NO
18. Temperatures: 1.3

DISCREPANCIES:

Sample 2 has 1 of 3 VOA vials w/bubbles >1/4", and 2 of 3 vials have bubbles <1/4"; sample 3 has 1 of 6 vials w/bubbles <1/4"; sample 8 has 2 of 2 VTRP's w/bubbles >1/4"

All PH samples except sample 5 were received out of hold, sample 5 went out of hold while I was taking the samples out of the coolers.

Date Printed: 4/25/2008 12:28

Supplemental Sample Receipt Log
Pace Analytical Services, Inc.

SDG: JPL100

Cooler: AAP091

Temperatures: 1.3

COC #: 46082

Sample	Bottle #	Bottle Description	pH	Bubbles
JPL100-001	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL100-002	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	> 1/4
	0003	40 ml OTWS, clear glass, HCl	N/C	< 1/4
	0004	40 ml OTWS, clear glass, HCl	N/C	< 1/4
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL100-003	0001	1000 mL cylinder, poly	7	N/A
	0002	1000 mL cylinder, poly	7	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	< 1/4
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	40 ml OTWS, clear glass, HCl	N/C	None
	0007	40 ml OTWS, clear glass, HCl	N/C	None
	0008	40 ml OTWS, clear glass, HCl	N/C	None
	0009	500 ml cylinder, poly, HNO3	<2	N/A
	0010	500 ml cylinder, poly, HNO3	<2	N/A
JPL100-004	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL100-005	0001	1000 mL boston round, amber glass	7	N/A
	0002	1000 mL cylinder, poly	7	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	500 ml cylinder, poly, HNO3	<2	N/A

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2
 Base Preserved pH pH must be greater than 12
 NC Not Checked for pH

Supplemental Sample Receipt Log
Pace Analytical Services, Inc.

SDG: JPL100
Cooler: AAP091
Temperatures: 1.3
COC #: 46082

Sample	Bottle #	Bottle Description	pH	Bubbles
JPL100-006	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL100-007	0001	1000 mL boston round, amber glass	7	N/A
	0002	1000 mL cylinder, poly	7	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	500 ml cylinder, poly, HNO3	<2	N/A
JPL100-008	0001	40 ml OTWS, clear glass, HCl	N/C	> 1/4
	0002	40 ml OTWS, clear glass, HCl	N/C	> 1/4

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2
 Base Preserved pH pH must be greater than 12
 NC Not Checked for pH

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ATTACHMENT B

Index

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Battelle

SDG No.: JPL100

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Completed and checked by: Judy Eklund Date: 6/10/08

QC SUMMARY

SDG #JPL100

Volatiles Analysis

2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL100

Run Sequence: R027627

Level: (LOW/MED) NONE

CLIENT SAMPLE NUMBER	SMC1 (DCA) #	SMC2 (BFB) #	SMC3 (TOL) #	SMC4 () #	TOT OUT
(JPL100-003MSD) MW-4-3MSD	90	108	97		0
(JPL100-003MS) MW-4-3MS	92	104	97		0
(JPL100-007) DUPE-1-2Q08	101	100	93		0
(JPL100-006) EB-03-4/24/08	102	100	95		0
(JPL100-005) MW-4-1	102	101	93		0
(JPL100-004) MW-4-2	102	99	96		0
(JPL100-003) MW-4-3	103	100	94		0
(JPL100-002) MW-4-4	100	102	92		0
(JPL100-001) MW-4-5	102	101	91		0
(B042808MVOWY2) B042808MVOWY2	96	101	94		0
(S042808MVOWY3) S042808MVOWY3	91	103	98		0

	QC LIMITS
SMC1 (DCA) = 1,2-Dichloroethane-d4	60-140
SMC2 (BFB) = 4-Bromofluorobenzene	60-140
SMC3 (TOL) = Toluene-d8	60-140
SMC4 () =	

Column to be used to flag recovery values
* Values outside of contract required QC limits

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorinSDG No.: JPL100Run Sequence: R027729Level: (LOW/MED) NONE

CLIENT SAMPLE NUMBER	SMC1	SMC2	SMC3	SMC4	TOT OUT
	(DCA) #	(BFB) #	(TOL) #	() #	
(JPL100-008) TB-03-4/24/08	104	100	94		0
(B043008MVOWY2) B043008MVOWY2	104	101	94		0
(S043008MVOWY1) S043008MVOWY1	97	103	98		0

SMC1 (DCA) =	1,2-Dichloroethane-d4	QC LIMITS
SMC2 (BFB) =	4-Bromofluorobenzene	60-140
SMC3 (TOL) =	Toluene-d8	60-140
SMC4 () =		60-140

Column to be used to flag recovery values

* Values outside of contract required QC limits

3B
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin

BS Run Sequence: R027627 SDG No.: JPL100

BS Lab Sample ID: S042808MVOWY3

Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
Dichlorodifluoromethane	50.0	47.61	95		60-140
Chloromethane	50.0	43.37	87		60-140
Vinyl chloride	50.0	46.31	93		60-140
Bromomethane	50.0	48.87	98		60-140
Chloroethane	50.0	48.66	97		60-140
Trichlorofluoromethane	50.0	52.77	106		60-140
1,1-Dichloroethene	50.0	50.18	100		60-140
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.4	95		60-140
Methylene chloride	50.0	46.68	93		60-140
Methyl tert-butyl ether	50.0	49.84	100		60-140
trans-1,2-Dichloroethene	50.0	47.89	96		60-140
1,1-Dichloroethane	50.0	44.91	90		60-140
2,2-Dichloropropane	50.0	48.85	98		60-140
cis-1,2-Dichloroethene	50.0	49.41	99		60-140
2-Butanone	50.0	52.69	105		60-140
Bromochloromethane	50.0	48.78	98		60-140
Chloroform	50.0	45.17	90		60-140
1,1,1-Trichloroethane	50.0	49.59	99		60-140
Carbon tetrachloride	50.0	51.18	102		60-140
1,1-Dichloropropene	50.0	53.69	107		60-140
Benzene	50.0	49.58	99		60-140
1,2-Dichloroethane	50.0	45.65	91		60-140
Trichloroethene	50.0	49.75	100		60-140
1,2-Dichloropropane	50.0	48.76	98		60-140
Dibromomethane	50.0	46.9	94		60-140
Bromodichloromethane	50.0	50.33	101		60-140
cis-1,3-Dichloropropene	50.0	67.78	136		60-140
4-Methyl-2-pentanone	50.0	50.97	102		60-140
Toluene	50.0	47.29	95		60-140
trans-1,3-Dichloropropene	50.0	47.12	94		60-140
1,1,2-Trichloroethane	50.0	43	86		60-140
Tetrachloroethene	50.0	45.93	92		60-140
1,3-Dichloropropane	50.0	46.13	92		60-140
Dibromochloromethane	50.0	49.75	100		60-140

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

Spike Recovery: 0 out of 63 outside limits

COMMENTS:

Date Printed: 5/16/2008 9:15

3B
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin

BS Run Sequence: R027627 SDG No.: JPL100

BS Lab Sample ID: S042808MVOWY3

Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
1,2-Dibromoethane	50.0	46.88	94		60-140
Chlorobenzene	50.0	44.54	89		60-140
Ethylbenzene	50.0	45.48	91		60-140
1,1,1,2-Tetrachloroethane	50.0	43.52	87		60-140
m,p-Xylene	100	93.94	94		60-140
o-Xylene	50.0	45.32	91		60-140
Styrene	50.0	47.6	95		60-140
Bromoform	50.0	45.66	91		60-140
Isopropylbenzene	50.0	48.36	97		60-140
1,1,1,2-Tetrachloroethane	50.0	39.21	78		60-140
n-Propylbenzene	50.0	45.57	91		60-140
Bromobenzene	50.0	46.47	93		60-140
1,2,3-Trichloropropane	50.0	38.9	78		60-140
2-Chlorotoluene	50.0	43.32	87		60-140
1,3,5-Trimethylbenzene	50.0	43.09	86		60-140
4-Chlorotoluene	50.0	43.72	87		60-140
tert-Butylbenzene	50.0	44.13	88		60-140
1,2,4-Trimethylbenzene	50.0	43.34	87		60-140
sec-Butylbenzene	50.0	42.66	85		60-140
4-Isopropyltoluene	50.0	46.24	92		60-140
1,3-Dichlorobenzene	50.0	41.03	82		60-140
1,4-Dichlorobenzene	50.0	40.3	81		60-140
n-Butylbenzene	50.0	42.07	84		60-140
1,2-Dichlorobenzene	50.0	40.52	81		60-140
1,2-Dibromo-3-chloropropane	50.0	36.81	74		60-140
1,2,4-Trichlorobenzene	50.0	42.95	86		60-140
Hexachlorobutadiene	50.0	40.7	81		60-140
Naphthalene	50.0	43.66	87		60-140
1,2,3-Trichlorobenzene	50.0	40.79	82		60-140

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

Spike Recovery: 0 out of 63 outside limits

COMMENTS:

Date Printed: 5/16/2008 9:15

3B
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin

BS Run Sequence: R027729 SDG No.: JPL100

BS Lab Sample ID: S043008MVOWY1

Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
Dichlorodifluoromethane	50.0	54.5	109		60-140
Chloromethane	50.0	48.64	97		60-140
Vinyl chloride	50.0	53.04	106		60-140
Bromomethane	50.0	57.22	114		60-140
Chloroethane	50.0	55.99	112		60-140
Trichlorofluoromethane	50.0	63.39	127		60-140
1,1-Dichloroethene	50.0	51.85	104		60-140
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.18	102		60-140
Methylene chloride	50.0	50.83	102		60-140
Methyl tert-butyl ether	50.0	53.46	107		60-140
trans-1,2-Dichloroethene	50.0	49.84	100		60-140
1,1-Dichloroethane	50.0	47.6	95		60-140
2,2-Dichloropropane	50.0	59.77	120		60-140
cis-1,2-Dichloroethene	50.0	51.61	103		60-140
2-Butanone	50.0	49.85	100		60-140
Bromochloromethane	50.0	51.89	104		60-140
Chloroform	50.0	48.61	97		60-140
1,1,1-Trichloroethane	50.0	53.26	107		60-140
Carbon tetrachloride	50.0	55.55	111		60-140
1,1-Dichloropropene	50.0	56.35	113		60-140
Benzene	50.0	50.48	101		60-140
1,2-Dichloroethane	50.0	47.95	96		60-140
Trichloroethene	50.0	53.01	106		60-140
1,2-Dichloropropane	50.0	49.49	99		60-140
Dibromomethane	50.0	47.95	96		60-140
Bromodichloromethane	50.0	53.05	106		60-140
cis-1,3-Dichloropropene	50.0	66.75	134		60-140
4-Methyl-2-pentanone	50.0	51.87	104		60-140
Toluene	50.0	48.06	96		60-140
trans-1,3-Dichloropropene	50.0	47.81	96		60-140
1,1,2-Trichloroethane	50.0	42.65	85		60-140
Tetrachloroethene	50.0	48.28	97		60-140
1,3-Dichloropropane	50.0	45.52	91		60-140
Dibromochloromethane	50.0	49.75	100		60-140

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

Spike Recovery: 0 out of 63 outside limits

COMMENTS:

Date Printed: 5/16/2008 9:15

3B
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 BS Run Sequence: R027729 SDG No.: JPL100
 BS Lab Sample ID: S043008MVOWY1
 Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
1,2-Dibromoethane	50.0	45.68	91		60-140
Chlorobenzene	50.0	45.15	90		60-140
Ethylbenzene	50.0	46.92	94		60-140
1,1,1,2-Tetrachloroethane	50.0	46.31	93		60-140
m,p-Xylene	100	96.62	97		60-140
o-Xylene	50.0	47.07	94		60-140
Styrene	50.0	47.94	96		60-140
Bromoform	50.0	44.38	89		60-140
Isopropylbenzene	50.0	50.31	101		60-140
1,1,2,2-Tetrachloroethane	50.0	39.35	79		60-140
n-Propylbenzene	50.0	47.64	95		60-140
Bromobenzene	50.0	45.33	91		60-140
1,2,3-Trichloropropane	50.0	38.28	77		60-140
2-Chlorotoluene	50.0	44.91	90		60-140
1,3,5-Trimethylbenzene	50.0	44.84	90		60-140
4-Chlorotoluene	50.0	44.58	89		60-140
tert-Butylbenzene	50.0	45.12	90		60-140
1,2,4-Trimethylbenzene	50.0	44.77	90		60-140
sec-Butylbenzene	50.0	44.44	89		60-140
4-Isopropyltoluene	50.0	48.41	97		60-140
1,3-Dichlorobenzene	50.0	41.84	84		60-140
1,4-Dichlorobenzene	50.0	40.38	81		60-140
n-Butylbenzene	50.0	44.17	88		60-140
1,2-Dichlorobenzene	50.0	41.19	82		60-140
1,2-Dibromo-3-chloropropane	50.0	36.91	74		60-140
1,2,4-Trichlorobenzene	50.0	44.75	90		60-140
Hexachlorobutadiene	50.0	43.67	87		60-140
Naphthalene	50.0	43.81	88		60-140
1,2,3-Trichlorobenzene	50.0	41.66	83		60-140

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

Spike Recovery: 0 out of 63 outside limits

COMMENTS:

Date Printed: 5/16/2008 9:15

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitor
 MS Run Sequence: R027627 MSD Run Sequence: R027627 SDG No.: JPL100
 MS Client Sample No.: MW-4-3MS MSD Client Sample No.: MW-4-3MSD
 MS Lab Sample ID: JPL100-003MS MSD Lab Sample ID: JPL100-003MSD
 Level: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
Dichlorodifluoromethane	0	50.0	50.19	100	50.0	47.56	95	5	30	60-140
Chloromethane	0	50.0	46.39	93	50.0	44.18	88	5	30	60-140
Vinyl chloride	0	50.0	51.29	103	50.0	48.68	97	5	30	60-140
Bromomethane	0	50.0	50.96	102	50.0	48.94	98	4	30	60-140
Chloroethane	0	50.0	52.9	106	50.0	50.7	101	4	30	60-140
Trichlorofluoromethane	0	50.0	55.9	112	50.0	54.4	109	3	30	60-140
1,1-Dichloroethane	0	50.0	52.11	104	50.0	50.7	101	3	30	60-140
1,1,2-Trichloro-1,2,2-trifluoroethane	0	50.0	49.75	100	50.0	47.99	96	4	30	60-140
Methylene chloride	0	50.0	48.88	98	50.0	46.64	93	5	30	60-140
Methyl tert-butyl ether	0	50.0	53.77	108	50.0	50.17	100	7	30	60-140
trans-1,2-Dichloroethene	0	50.0	49.77	100	50.0	48.39	97	3	30	60-140
1,1-Dichloroethane	0	50.0	46.1	92	50.0	45.31	91	2	30	60-140
2,2-Dichloropropane	0	50.0	41.62	83	50.0	38.66	77	7	30	60-140
cis-1,2-Dichloroethene	0	50.0	50.46	101	50.0	48.84	98	3	30	60-140
2-Butanone	0	50.0	49.67	99	50.0	50.2	100	1	30	60-140
Bromochloromethane	0	50.0	50.1	100	50.0	49.42	99	1	30	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

@ This RPD or percent recovery is not flagged as an exceedence because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 0 out of 63 outside limits

Spike Recovery: 0 out of 126 outside limits

COMMENTS:

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorMS Run Sequence: R027627MSD Run Sequence: R027627SDG No.: JPL100MS Client Sample No.: MW-4-3MSMSD Client Sample No.: MW-4-3MSDMS Lab Sample ID: JPL100-003MSMSD Lab Sample ID: JPL100-003MSDLevel: N/AUnits: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
Chloroform	0	50.0	47	94	50.0	45.55	91	3	30	60-140
1,1,1-Trichloroethane	0	50.0	52.27	105	50.0	51.33	103	2	30	60-140
Carbon tetrachloride	0	50.0	52.75	106	50.0	51.71	103	2	30	60-140
1,1-Dichloropropene	0	50.0	54.39	109	50.0	55.92	112	3	30	60-140
Benzene	0	50.0	50.97	102	50.0	51.53	103	1	30	60-140
1,2-Dichloroethane	0	50.0	47.84	96	50.0	48.08	96	1	30	60-140
Trichloroethene	0	50.0	49.72	99	50.0	53.15	106	7	30	60-140
1,2-Dichloropropane	0	50.0	49.78	100	50.0	51.16	102	3	30	60-140
Dibromomethane	0	50.0	47.98	96	50.0	48.78	98	2	30	60-140
Bromodichloromethane	0	50.0	51.95	104	50.0	52.35	105	1	30	60-140
cis-1,3-Dichloropropene	0	50.0	64.88	130	50.0	68.86	138	6	30	60-140
4-Methyl-2-pentane	0	50.0	49.34	99	50.0	51.33	103	4	30	60-140
Toluene	0.24	50.0	48.96	97	50.0	50.36	100	3	30	60-140
trans-1,3-Dichloropropene	0	50.0	45.72	91	50.0	47.09	94	3	30	60-140
1,1,2-Trichloroethane	0	50.0	43.49	87	50.0	43.56	87	0	30	60-140
Tetrachloroethene	0	50.0	46.51	93	50.0	48.33	97	4	30	60-140
1,3-Dichloropropane	0	50.0	46.17	92	50.0	48.01	96	4	30	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

@ This RPD or percent recovery is not flagged as an exceedance because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 0 out of 63 outside limitsSpike Recovery: 0 out of 126 outside limits

COMMENTS:

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorMS Run Sequence: R027627 MSD Run Sequence: R027627 SDG No.: JPL100MS Client Sample No.: MW-4-3MS MSD Client Sample No.: MW-4-3MSDMS Lab Sample ID: JPL100-003MS MSD Lab Sample ID: JPL100-003MSDLevel: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
Dibromochloromethane	0	50.0	49.99	100	50.0	50.46	101	1	30	60-140
1,2-Dibromoethane	0	50.0	46.96	94	50.0	48.18	96	3	30	60-140
Chlorobenzene	0	50.0	45.88	92	50.0	47.25	95	3	30	60-140
Ethylbenzene	1.48	50.0	48.35	94	50.0	49.22	95	2	30	60-140
1,1,1,2-Tetrachloroethane	0	50.0	45.21	90	50.0	43.33	87	4	30	60-140
m,p-Xylene	0	100	96.6	97	100	97.22	97	1	30	60-140
o-Xylene	0	50.0	47.8	96	50.0	47.21	94	1	30	60-140
Styrene	0.44	50.0	49.5	98	50.0	49.9	99	1	30	60-140
Bromoform	0	50.0	45.78	92	50.0	45.35	91	1	30	60-140
Isopropylbenzene	0	50.0	50.18	100	50.0	49.44	99	2	30	60-140
1,1,2,2-Tetrachloroethane	0	50.0	39.77	80	50.0	39.55	79	1	30	60-140
n-Propylbenzene	0	50.0	46.51	93	50.0	49.25	99	6	30	60-140
Bromobenzene	0	50.0	47.26	95	50.0	47.81	96	1	30	60-140
1,2,3-Trichloropropane	0	50.0	35.93	72	50.0	36.18	72	1	30	60-140
2-Chlorotoluene	0	50.0	44.47	89	50.0	46.29	93	4	30	60-140
1,3,5-Trimethylbenzene	0	50.0	44.3	89	50.0	45.19	90	2	30	60-140
4-Chlorotoluene	0	50.0	45.04	90	50.0	46.66	93	4	30	60-140
tert-Butylbenzene	0	50.0	45.12	90	50.0	46.37	93	3	30	60-140
1,2,4-Trimethylbenzene	0	50.0	44.52	89	50.0	45.48	91	2	30	60-140
sec-Butylbenzene	0	50.0	43.9	88	50.0	44.96	90	2	30	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

@ This RPD or percent recovery is not flagged as an exceedance because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 0 out of 63 outside limitsSpike Recovery: 0 out of 126 outside limits

COMMENTS:

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater MonitorMS Run Sequence: R027627 MSD Run Sequence: R027627 SDG No.: JPL100MS Client Sample No.: MW-4-3MS MSD Client Sample No.: MW-4-3MSDMS Lab Sample ID: JPL100-003MS MSD Lab Sample ID: JPL100-003MSDLevel: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
4-Isopropyltoluene	0	50.0	47.77	96	50.0	49.04	98	3	30	60-140
1,3-Dichlorobenzene	0	50.0	42	84	50.0	42.59	85	1	30	60-140
1,4-Dichlorobenzene	0	50.0	41.22	82	50.0	41.57	83	1	30	60-140
n-Butylbenzene	0	50.0	43.21	86	50.0	44.02	88	2	30	60-140
1,2-Dichlorobenzene	0	50.0	42	84	50.0	41.59	83	1	30	60-140
1,2-Dibromo-3-chloropropane	0	50.0	38.39	77	50.0	36.51	73	5	30	60-140
1,2,4-Trichlorobenzene	0	50.0	45.55	91	50.0	43.98	88	4	30	60-140
Hexachlorobutadiene	0	50.0	43.6	87	50.0	44.27	89	2	30	60-140
Naphthalene	0	50.0	45.68	91	50.0	42.75	86	7	30	60-140
1,2,3-Trichlorobenzene	0	50.0	42.81	86	50.0	41.14	82	4	30	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

@ This RPD or percent recovery is not flagged as an exceedance because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 0 out of 63 outside limitsSpike Recovery: 0 out of 126 outside limits

COMMENTS:

4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B042808MVOWY2

Lab Name Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL100

Lab File ID: Y0428039.D

Lab Sample ID: B042808MVOWY2

Date Analyzed: 04/28/2008

Time Analyzed: 22:05

GC Column: DB-624 20m ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: 5973Y

Matrix: Water

	CLIENT SAMPLE NO.	LAB SAMPLE ID.	LAB FILE ID.	DATE ANALYZED	TIME ANALYZED	RUN SEQUENCE
01	S042808MVOWY3	S042808MVOWY3	Y0428036.D	04/28/2008	20:54	R027627
02	MW-4-5	JPL100-001	Y0428047.D	04/29/2008	01:23	R027627
03	MW-4-4	JPL100-002	Y0428048.D	04/29/2008	01:48	R027627
04	MW-4-3	JPL100-003	Y0428049.D	04/29/2008	02:12	R027627
05	MW-4-2	JPL100-004	Y0428050.D	04/29/2008	02:37	R027627
06	MW-4-1	JPL100-005	Y0428051.D	04/29/2008	03:02	R027627
07	EB-03-4/24/08	JPL100-006	Y0428052.D	04/29/2008	03:26	R027627
08	DUPE-1-2Q08	JPL100-007	Y0428053.D	04/29/2008	03:51	R027627
09	MW-4-3MS	JPL100-003MS	Y0428062.D	04/29/2008	07:36	R027627
10	MW-4-3MSD	JPL100-003MSD	Y0428063.D	04/29/2008	08:00	R027627
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COMMENTS: _____

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4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B043008MVOWY2

Lab Name Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL100

Lab File ID: Y0430016.D

Lab Sample ID: B043008MVOWY2

Date Analyzed: 04/30/2008

Time Analyzed: 12:51

GC Column: DB-624 20m ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: 5973Y

Matrix: Water

	CLIENT SAMPLE NO.	LAB SAMPLE ID.	LAB FILE ID.	DATE ANALYZED	TIME ANALYZED	RUN SEQUENCE
01	S043008MVOWY1	S043008MVOWY1	Y0430008.D	04/30/2008	08:55	R027729
02	TB-03-4/24/08	JPL100-008	Y0430017.D	04/30/2008	13:16	R027729
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COMMENTS: _____

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

BFBY5

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 Run Sequence: CAL1310 SDG No.: JPL100
 Lab File ID: Y0414036.D BFB Injection Date: 04/14/2008
 Instrument ID: 5973Y BFB Injection Time: 21:43
 GC Column DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	17.8
75	30% to 60% of mass 95	48.1
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	6.8
173	less than 2% of mass 174	0 ()1
174	greater than 50% of mass 95	99.4
175	5% to 9% of mass 17	7.2 ()1
176	greater than 95%, but less than 101% of mass 174	95.4 ()1
177	5% to 9% of mass 176	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 SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0.3	VSTD0.3	Y0414037.D	04/14/2008	22:08
02	VSTD0.5	VSTD0.5	Y0414038.D	04/14/2008	22:33
03	VSTD001	VSTD001	Y0414039.D	04/14/2008	22:58
04	VSTD005	VSTD005	Y0414040.D	04/14/2008	23:22
05	VSTD010	VSTD010	Y0414041.D	04/14/2008	23:47
06	VSTD050	VSTD050	Y0414042.D	04/15/2008	00:12
07	VSTD100	VSTD100	Y0414043.D	04/15/2008	00:36
08	VSTD200	VSTD200	Y0414044.D	04/15/2008	01:01
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22					

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

BFBY1

Lab Name: Pace Analytical Services Contract: _____
 Run Sequence: R027335 SDG No.: ~~NBSS13~~ JPL100 QM# 5/16/08
 Lab File ID: Y0415011.D BFB Injection Date: 04/15/2008
 Instrument ID: 5973Y BFB Injection Time: 09:55
 GC Column DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	18
75	30% to 60% of mass 95	48.6
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	6.6
173	less than 2% of mass 174	0()1
174	greater than 50% of mass 95	94.8
175	5% to 9% of mass 17	8.3()1
176	greater than 95%, but less than 101% of mass 174	99.1()1
177	5% to 9% of mass 176	6.1()2

1 - Value is %mass 174

2 - Value is %mass 176

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	S041508MVOWY2	S041508MVOWY2	Y0415015.D	04/15/2008	11:39
02					
03					
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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

BFBY3

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 Run Sequence: R027627 SDG No.: JPL100
 Lab File ID: Y0428034.D BFB Injection Date: 04/28/2008
 Instrument ID: 5973Y BFB Injection Time: 20:05
 GC Column DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	17.7
75	30% to 60% of mass 95	47.8
95	base peak. 100% relative abundance	100
96	5% to 9% of mass 95	6.6
173	less than 2% of mass 174	0()1
174	greater than 50% of mass 95	106.3
175	5% to 9% of mass 17	7.1()1
176	greater than 95%. but less than 101% of mass 174	97.6()1
177	5% to 9% of mass 176	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 SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050Y2	VSTD050Y2	Y0428035.D	04/28/2008	20:29
02	S042808MVOWY3	S042808MVOWY3	Y0428036.D	04/28/2008	20:54
03	B042808MVOWY2	B042808MVOWY2	Y0428039.D	04/28/2008	22:05
04	MW-4-5	JPL100-001	Y0428047.D	04/29/2008	01:23
05	MW-4-4	JPL100-002	Y0428048.D	04/29/2008	01:48
06	MW-4-3	JPL100-003	Y0428049.D	04/29/2008	02:12
07	MW-4-2	JPL100-004	Y0428050.D	04/29/2008	02:37
08	MW-4-1	JPL100-005	Y0428051.D	04/29/2008	03:02
09	EB-03-4/24/08	JPL100-006	Y0428052.D	04/29/2008	03:26
10	DUPE-1-2Q08	JPL100-007	Y0428053.D	04/29/2008	03:51
11	MW-4-3MS	JPL100-003MS	Y0428062.D	04/29/2008	07:36
12	MW-4-3MSD	JPL100-003MSD	Y0428063.D	04/29/2008	08:00
13					
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22					

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

CLIENT SAMPLE NO.

VSTD050Y1/BFBY2

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 Run Sequence: R027729 SDG No.: JPL100
 Lab File ID: Y0430007.D BFB Injection Date: 04/30/2008
 Instrument ID: 5973Y BFB Injection Time: 08:27
 GC Column DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	17.7
75	30% to 60% of mass 95	45.5
95	base peak. 100% relative abundance	100
96	5% to 9% of mass 95	6.8
173	less than 2% of mass 174	0 ()1
174	greater than 50% of mass 95	105.4
175	5% to 9% of mass 17	7.2 ()1
176	greater than 95%. but less than 101% of mass 174	97.7 ()1
177	5% to 9% of mass 176	6.6 ()2

1 - Value is %mass 174

2 - Value is %mass 176

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050Y1	VSTD050Y1	Y0430007.D	04/30/2008	08:27
02	S043008MVOWY1	S043008MVOWY1	Y0430008.D	04/30/2008	08:55
03	B043008MVOWY2	B043008MVOWY2	Y0430016.D	04/30/2008	12:51
04	TB-03-4/24/08	JPL100-008	Y0430017.D	04/30/2008	13:16
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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitoring
 Run Sequence: R027627 SDG No.: JPL100
 Client Sample No.(VSTD050##): VSTD050Y2 Date Analyzed: 04/28/2008
 Lab File ID (Standard): Y0428035.D Time Analyzed: 20:29
 Instrument ID: 5973Y Heated Purge: (Y/N) N
 GC Column: DB-624 20m ID: 0.18 (mm)

	IS1 (FBZ) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	486655	8.23	269643	11.68	358257	13.61
UPPER LIMIT	973310	8.28	539286	11.73	716514	13.66
LOWER LIMIT	243327.5	8.18	134821.5	11.63	179128.5	13.56
CLIENT SAMPLE NO.						
01 S042808MVOWY3	481190	8.23	262343	11.68	364501	13.61
02 B042808MVOWY2	436560	8.23	229977	11.68	334876	13.61
03 MW-4-5	395544	8.23	219791	11.68	317857	13.61
04 MW-4-4	403685	8.23	222803	11.68	317510	13.61
05 MW-4-3	374447	8.23	203135	11.68	300585	13.61
06 MW-4-2	379193	8.23	200893	11.68	298357	13.61
07 MW-4-1	408844	8.23	226967	11.68	326278	13.61
08 EB-03-4/24/08	401775	8.23	215775	11.68	315008	13.61
09 DUPE-1-2Q08	378991	8.23	204973	11.68	301479	13.61
10 MW-4-3MS	434296	8.23	235083	11.68	330293	13.61
11 MW-4-3MSD	491586	8.23	270849	11.68	362520	13.61
12						
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19						
20						
21						
22						

IS1 (FBZ) = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

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 Name: Pace Analytical Services Contract: JPL Groundwater Monitoring
 Run Sequence: R027729 SDG No.: JPL100
 Client Sample No. (VSTD050##): VSTD050Y1 Date Analyzed: 04/30/2008
 Lab File ID (Standard): Y0430007.D Time Analyzed: 08:27
 Instrument ID: 5973Y Heated Purge: (Y/N) N
 GC Column: DB-624 20m ID: 0.18 (mm)

	IS1 (FBZ) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	412454	8.23	237075	11.68	322468	13.61
UPPER LIMIT	824908	8.28	474150	11.73	644936	13.66
LOWER LIMIT	206227	8.18	118537.5	11.63	161234	13.56
CLIENT SAMPLE NO.						
01 S043008MVOWY1	401383	8.23	218525	11.68	308870	13.61
02 B043008MVOWY2	367314	8.23	192188	11.68	287499	13.61
03 TB-03-4/24/08	374099	8.23	200743	11.68	290855	13.61
04						
05						
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17						
18						
19						
20						
21						
22						

IS1 (FBZ) = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

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 ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

BFBY1

Lab Name: Pace Analytical Services Contract: _____
 Run Sequence: R027335 SDG No.: NBSD13
 Lab File ID: Y0415011.D BFB Injection Date: 04/15/2008
 Instrument ID: 5973Y BFB Injection Time: 09:55
 GC Column: DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	18
75	30% to 60% of mass 95	48.6
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	6.6
173	less than 2% of mass 174	0()1
174	greater than 50% of mass 95	94.8
175	5% to 9% of mass 17	8.3()1
176	greater than 95%, but less than 101% of mass 174	99.1()1
177	5% to 9% of mass 176	6.1()2

1 - Value is %mass 174

2 - Value is %mass 176

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	S041508MVOWY2	S041508MVOWY2	Y0415015.D	04/15/2008	11:39
02					
03					
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SAMPLE DATA

SDG # JPL100

Volatiles Analysis

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-5

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-001
 Lab File ID: Y0428047.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/29/2008 01:23
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-5

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-001
 Lab File ID: Y0428047.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/29/2008 01:23
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-5

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-001
 Lab File ID: Y0428047.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/29/2008 01:23
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

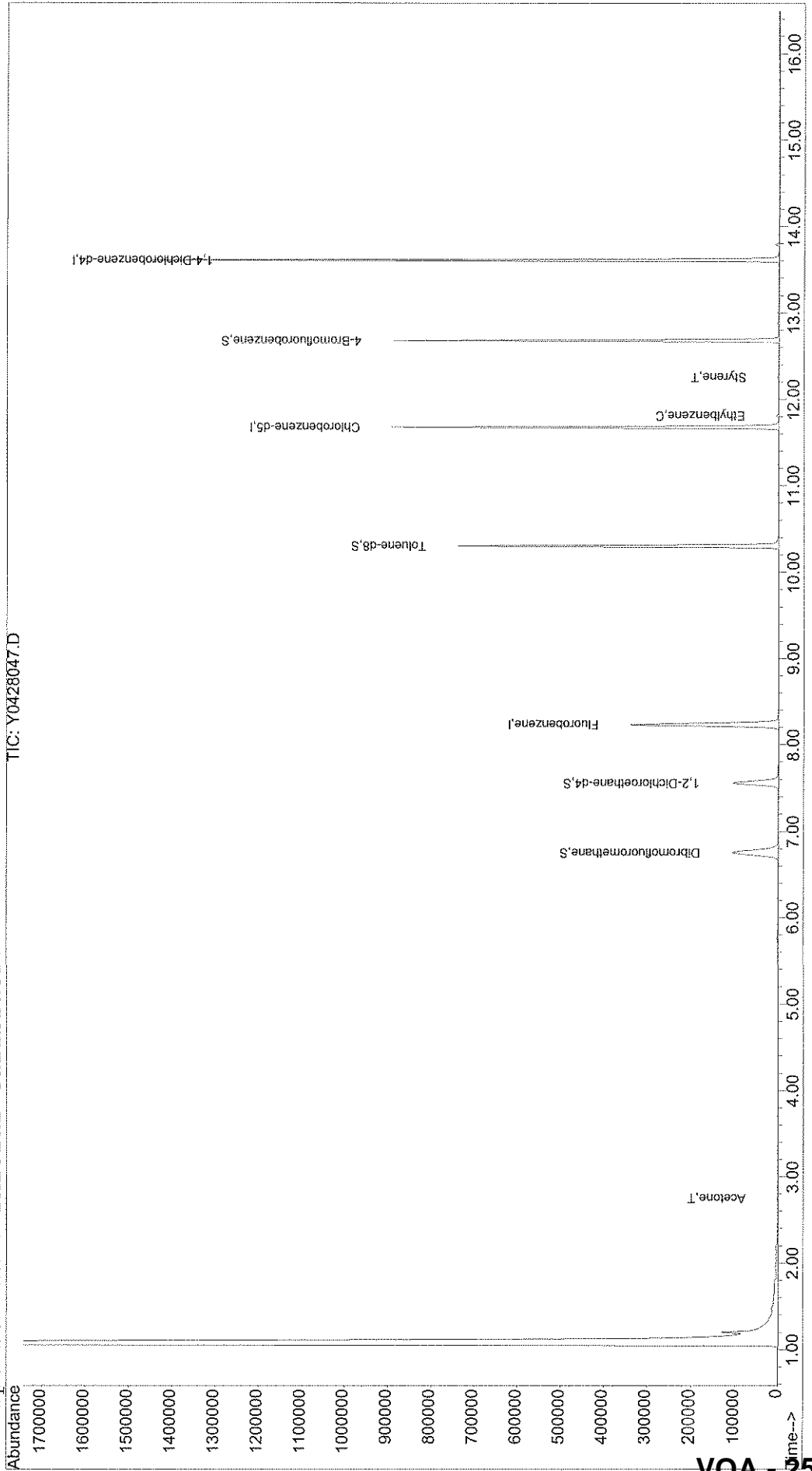
CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428047.D
Acq On : 29 Apr 2008 1:23 Vial: 38
Sample : JPL100-001 Operator: LPM
Misc : #3 5mL +IS/SS(524) Inst : Yoda
MS Integration Params: rteint.p Multiplr: 1.00
Quant Time: Apr 29 10:50 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428047.D
 Acq On : 29 Apr 2008 1:23
 Sample : JPL100-001
 Misc : #3 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: Apr 29 10:50 2008

Vial: 38
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	395544	50.00	ug/l	0.00	77.46%
54) Chlorobenzene-d5	11.68	82	219791	50.00	ug/l	0.00	89.86%
74) 1,4-Dichlorobenzene-d4	13.61	152	317857	50.00	ug/l	0.00	90.70%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	137386	53.10	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	106.20%	
40) 1,2-Dichloroethane-d4	7.56	65	126011	50.99	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.98%	
55) Toluene-d8	10.30	98	433154	45.51	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	91.02%	
76) 4-Bromofluorobenzene	12.68	95	208109	50.36	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	100.72%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	132	N.D.		
4) Vinyl Chloride	1.47	62	131	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.75	43	2046	2.17	ug/l #	82
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	1482	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	3.65	53	86	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

Handwritten signature/initials

(#) = qualifier out of range (m) = manual integration
 Y0428047.D Y8260W.M Tue Apr 29 10:50:50 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428047.D
 Acq On : 29 Apr 2008 1:23
 Sample : JPL100-001
 Misc : #3 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: Apr 29 10:50 2008

Vial: 38
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	0.00	43	0		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	6.20	41	54		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.65	78	754		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	8.81	130	58		N.D.	
46) Methylcyclohexane	9.05	83	108		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	9.72	63	54		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.37	92	576		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	0.00	43	0		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.69	112	190		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0428047.D Y8260W.M Tue Apr 29 10:50:51 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428047.D
 Acq On : 29 Apr 2008 1:23
 Sample : JPL100-001
 Misc : #3 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: Apr 29 10:50 2008

Vial: 38
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

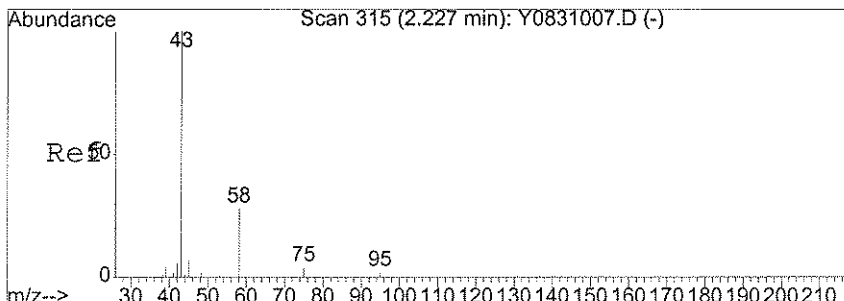
Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	3184	0.24	ug/l	#
69) m,p-Xylene	11.91	106	69	N.D.		
70) o-xylene	0.00	106	0	N.D.		
71) Styrene	12.25	104	1607	0.20	ug/l	
72) Bromoform	12.66	173	73	N.D.		
73) Isopropylbenzene	12.69	105	144	N.D.		
75) trans-1,4-Dichloro-2-buten	0.00	53	0	N.D.		
77) Bromobenzene	12.69	156	155	N.D.		
78) 1,1,2,2-Tetrachloroethane	12.68	83	62	N.D.		
79) 1,2,3-Trichloropropane	0.00	75	0	N.D.	d	
80) n-Propylbenzene	12.97	120	65	N.D.		
81) 2-Chlorotoluene	12.96	91	143	N.D.		
82) 4-Chlorotoluene	13.05	91	152	N.D.		
83) 1,3,5-Trimethylbenzene	0.00	105	0	N.D.	d	
84) tert-Butylbenzene	0.00	119	0	N.D.	d	
85) 1,2,4-Trimethylbenzene	0.00	105	0	N.D.	d	
86) sec-butylbenzene	0.00	105	0	N.D.	d	
87) 1,3-Dichlorobenzene	13.56	146	249	N.D.		
88) 4-Isopropyltoluene	13.60	119	158	N.D.		
89) 1,4-Dichlorobenzene	13.63	146	373	N.D.		
90) 1,2-Dichlorobenzene	13.93	146	128	N.D.		
91) n-Butylbenzene	13.91	91	396	N.D.		
92) 1,2-Dibromo-3-chloropropan	0.00	75	0	N.D.		
93) 1,2,4-Trichlorobenzene	15.17	180	294	N.D.		
94) Hexachlorobutadiene	15.30	225	170	N.D.		
95) Naphthalene	15.36	128	194	N.D.		
96) 1,2,3-Trichlorobenzene	15.56	180	144	N.D.		

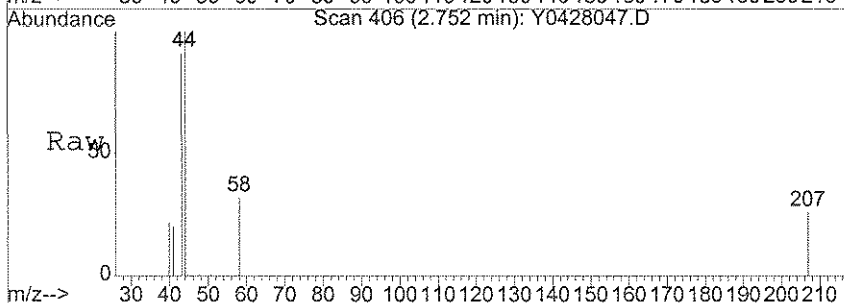
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 } L¹/₂ PAL
 } 86
 } JPL 5/10/08

Handwritten signature:
 4/29/08

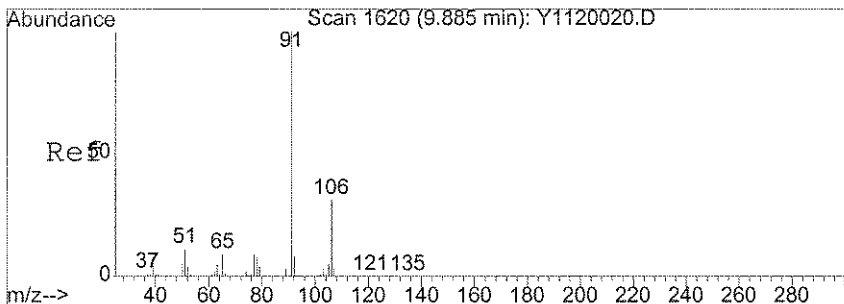
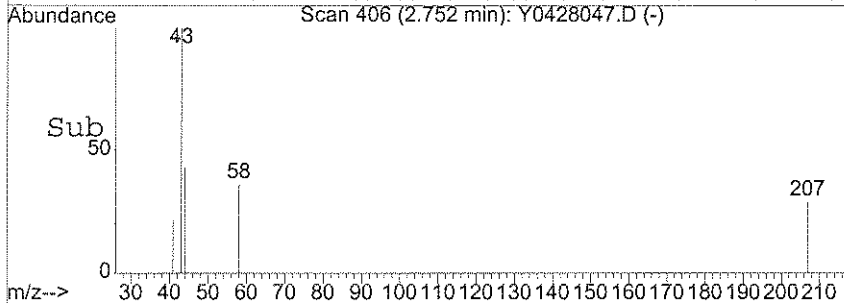
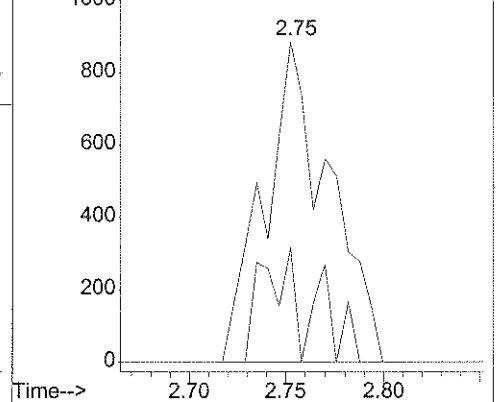


#11
 Acetone
 Concen: 2.17 ug/l
 RT: 2.75 min Scan# 406
 Delta R.T. 0.02 min
 Lab File: Y0428047.D
 Acq: 29 Apr 2008 1:23

Tgt Ion: 43 Resp: 2046
 Ion Ratio Lower Upper
 43 100
 58 17.3 21.3 31.9#

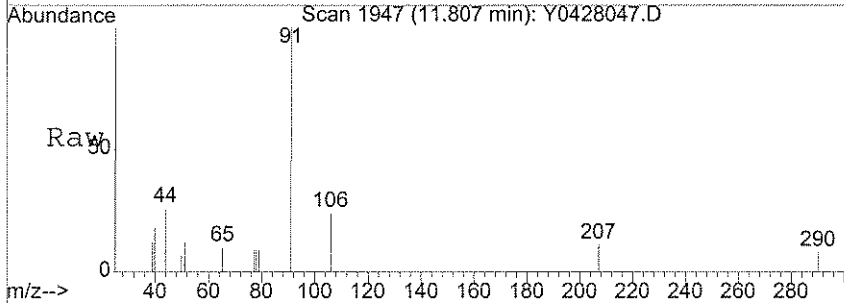


Abundance Ion 43.15 (42.85 to 43.85): Y0428047.D
 Ion 58.05 (57.75 to 58.75): Y0428047.D

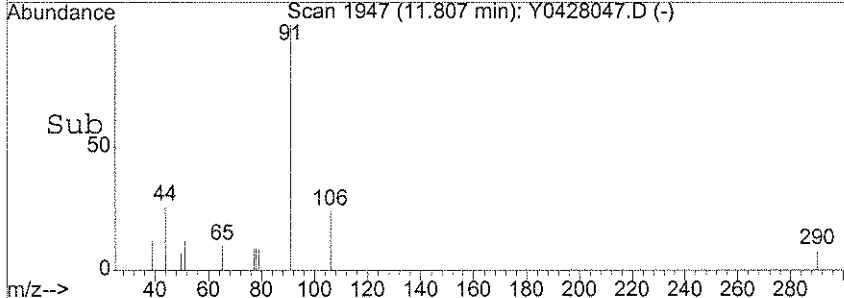
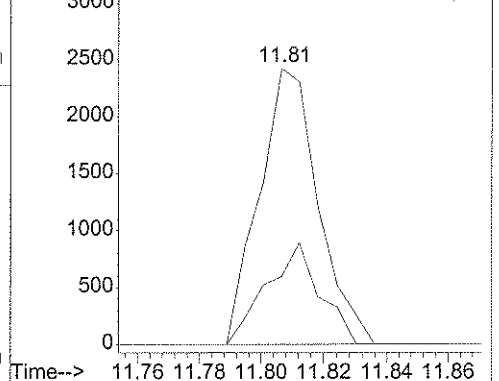


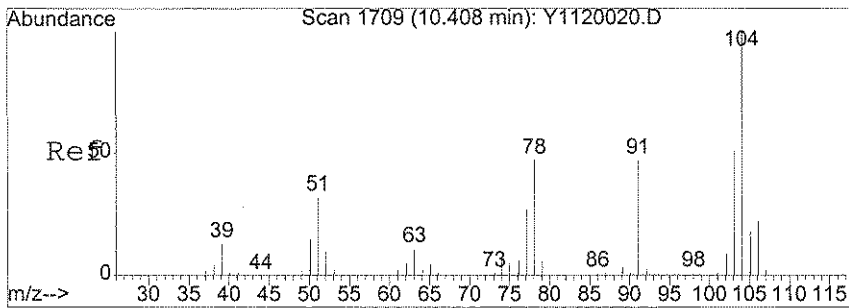
#68
 Ethylbenzene
 Concen: 0.24 ug/l
 RT: 11.81 min Scan# 1947
 Delta R.T. -0.01 min
 Lab File: Y0428047.D
 Acq: 29 Apr 2008 1:23

Tgt Ion: 91 Resp: 3184
 Ion Ratio Lower Upper
 91 100
 106 24.5 26.1 39.1#
 112 0.0 0.0 0.0



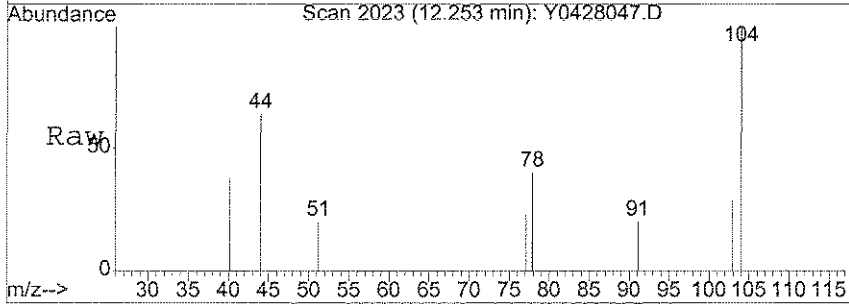
Abundance Ion 91.05 (90.75 to 91.75): Y0428047.D
 Ion 106.15 (105.85 to 106.85): Y0428047.D
 Ion 112.05 (111.75 to 112.75): Y0428047.D



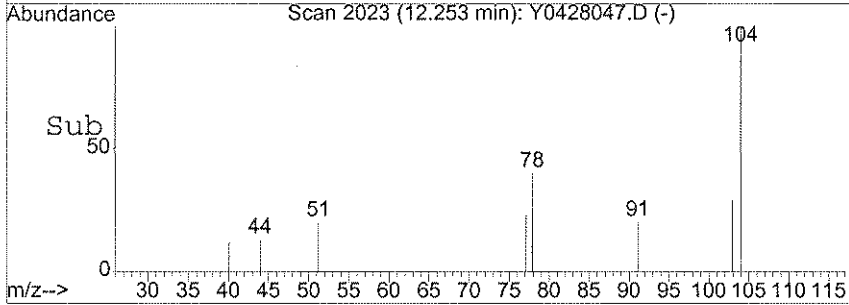
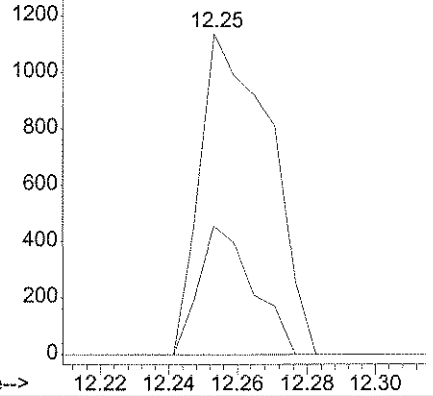


#71
 Styrene
 Concen: 0.20 ug/l
 RT: 12.25 min Scan# 2023
 Delta R.T. -0.01 min
 Lab File: Y0428047.D
 Acq: 29 Apr 2008 1:23

Tgt Ion: 104	Resp: 1607
Ion Ratio Lower	Upper
104 100	
78 31.2	19.7 59.7



Abundance Ion 104.00 (103.70 to 104.70): Y0428047.D
 Ion 78.00 (77.70 to 78.70): Y0428047.D



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-4

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-002
 Lab File ID: Y0428048.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/29/2008 01:48
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-4

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-002
 Lab File ID: Y0428048.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/29/2008 01:48
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-4

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-002
 Lab File ID: Y0428048.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/29/2008 01:48
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

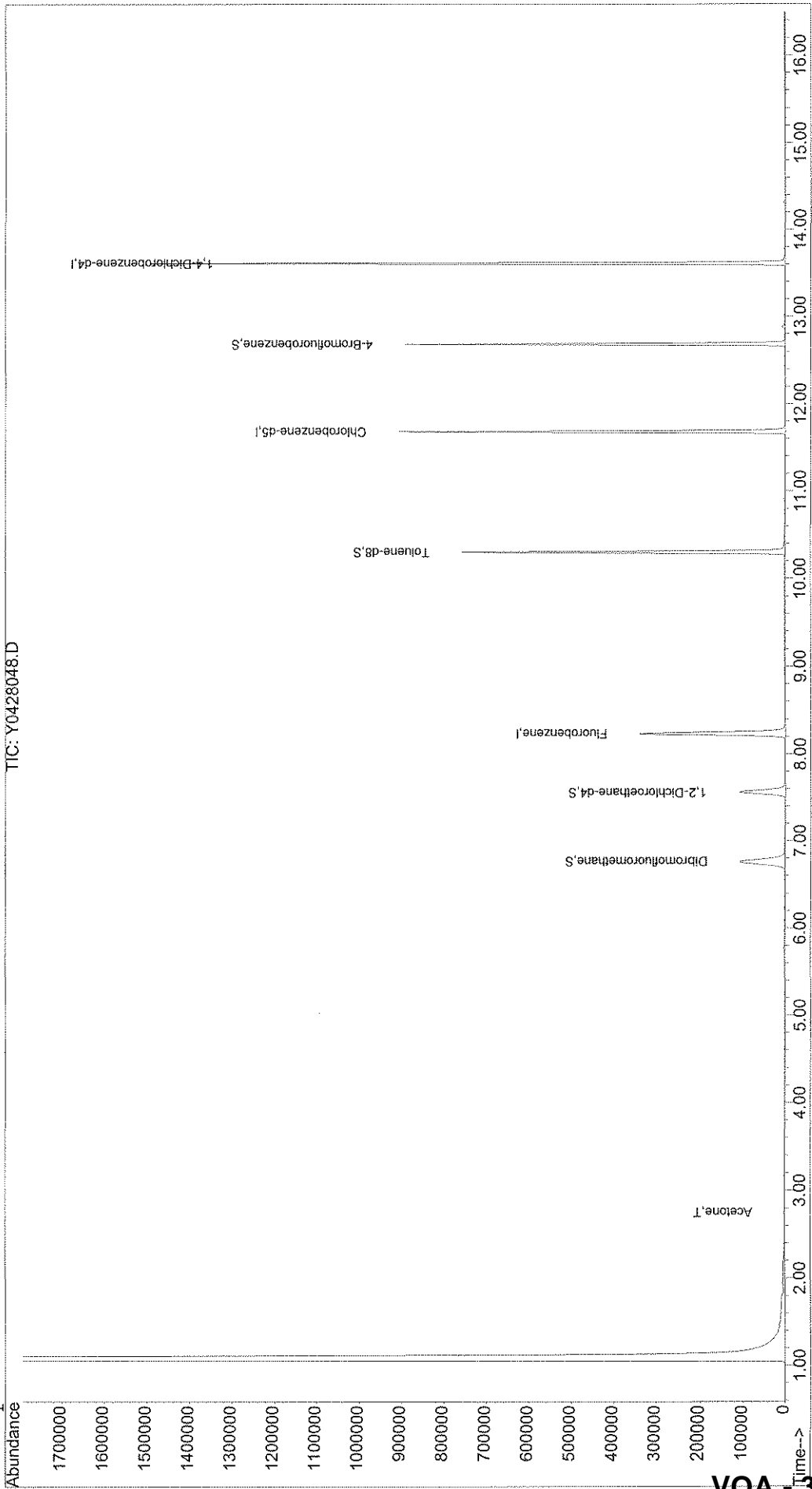
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428048.D
Acq On : 29 Apr 2008 1:48 Vial: 39
Sample : JPL100-002 Operator: LPM
Misc : #3 5mL +IS/SS(524) Inst : Yoda
MS Integration Params: rteint.p Multiplr: 1.00
Quant Time: Apr 29 10:51 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428048.D
 Acq On : 29 Apr 2008 1:48
 Sample : JPL100-002
 Misc : #3 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: Apr 29 10:51 2008

Vial: 39
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	403685	50.00	ug/l	0.00	79.06%
54) Chlorobenzene-d5	11.68	82	222803	50.00	ug/l	0.00	91.09%
74) 1,4-Dichlorobenzene-d4	13.61	152	317510	50.00	ug/l	0.00	90.60%

System Monitoring Compounds

36) Dibromofluoromethane	6.77	111	139858	52.96	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	105.92%	
40) 1,2-Dichloroethane-d4	7.56	65	126528	50.16	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.32%	
55) Toluene-d8	10.30	98	445887	46.22	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	92.44%	
76) 4-Bromofluorobenzene	12.68	95	209600	50.78	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	101.56%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	0.00	50	0	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.75	43	1608	1.67	ug/l #	79
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	529	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	3.72	96	63	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

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(#) = qualifier out of range (m) = manual integration
 Y0428048.D Y8260W.M Tue Apr 29 10:52:00 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428048.D
 Acq On : 29 Apr 2008 1:48
 Sample : JPL100-002
 Misc : #3 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: Apr 29 10:51 2008

Vial: 39
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	5.63	43	57		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.65	78	405		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.36	92	177		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0		N.D.	
60) Tetrachloroethene	10.92	166	152		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.17	43	57		N.D.	
63) Dibromochloromethane	10.92	129	116		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	0.00	112	0		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	12.08	131	85		N.D.	

Handwritten signature

(#) = qualifier out of range (m) = manual integration
 Y0428048.D Y8260W.M Tue Apr 29 10:52:00 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428048.D
 Acq On : 29 Apr 2008 1:48
 Sample : JPL100-002
 Misc : #3 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: Apr 29 10:51 2008

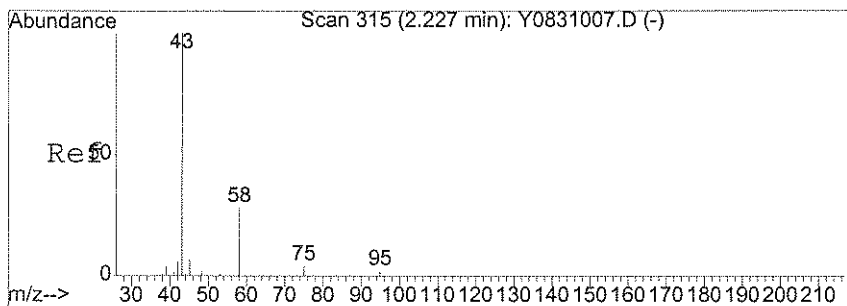
Vial: 39
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

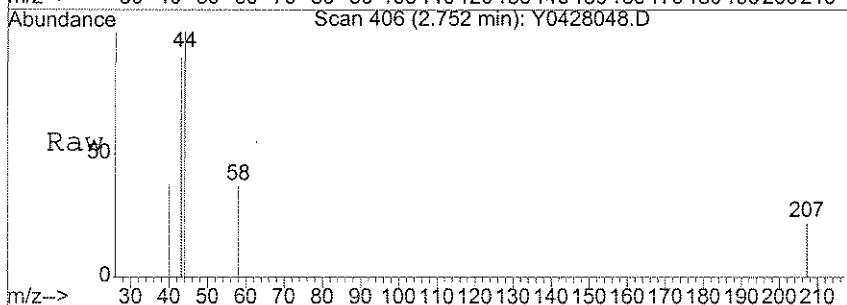
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.82	91	226		N.D.	
69) m,p-Xylene	11.91	106	225		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	12.26	104	180		N.D.	
72) Bromoform	12.70	173	55		N.D.	
73) Isopropylbenzene	12.68	105	194		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	0.00	156	0		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.87	83	59		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.90	91	191		N.D.	
82) 4-Chlorotoluene	13.05	91	208		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	388		N.D.	
88) 4-Isopropyltoluene	13.59	119	201		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	172		N.D.	
90) 1,2-Dichlorobenzene	13.92	146	188		N.D.	
91) n-Butylbenzene	13.90	91	294		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	152		N.D.	
94) Hexachlorobutadiene	15.30	225	150		N.D.	
95) Naphthalene	15.36	128	95		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	199		N.D.	

4/29/08 LPM

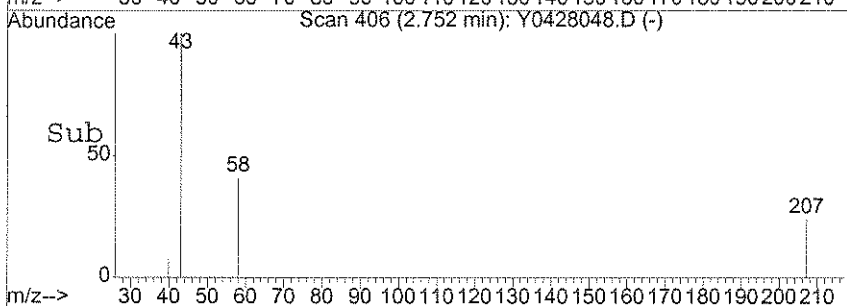
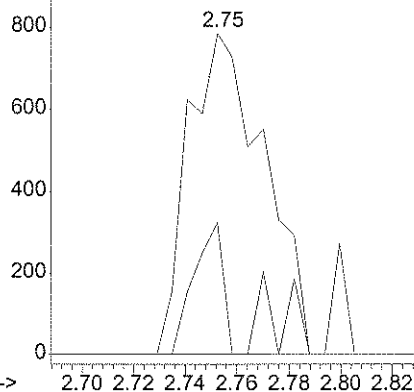


#11
 Acetone
 Concen: 1.67 ug/l
 RT: 2.75 min Scan# 406
 Delta R.T. 0.02 min
 Lab File: Y0428048.D
 Acq: 29 Apr 2008 1:48

Tgt Ion: 43 Resp: 1608
 Ion Ratio Lower Upper
 43 100
 58 15.9 21.3 31.9#



Abundance Ion 43.15 (42.85 to 43.85): Y0428048.D
 Ion 58.05 (57.75 to 58.75): Y0428048.D



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-3

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-003
 Lab File ID: Y0428049.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/29/2008 02:12
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-3

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-003
 Lab File ID: Y0428049.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/29/2008 02:12
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	1.5	
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.44	J
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-3

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-003
 Lab File ID: Y0428049.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/29/2008 02:12
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

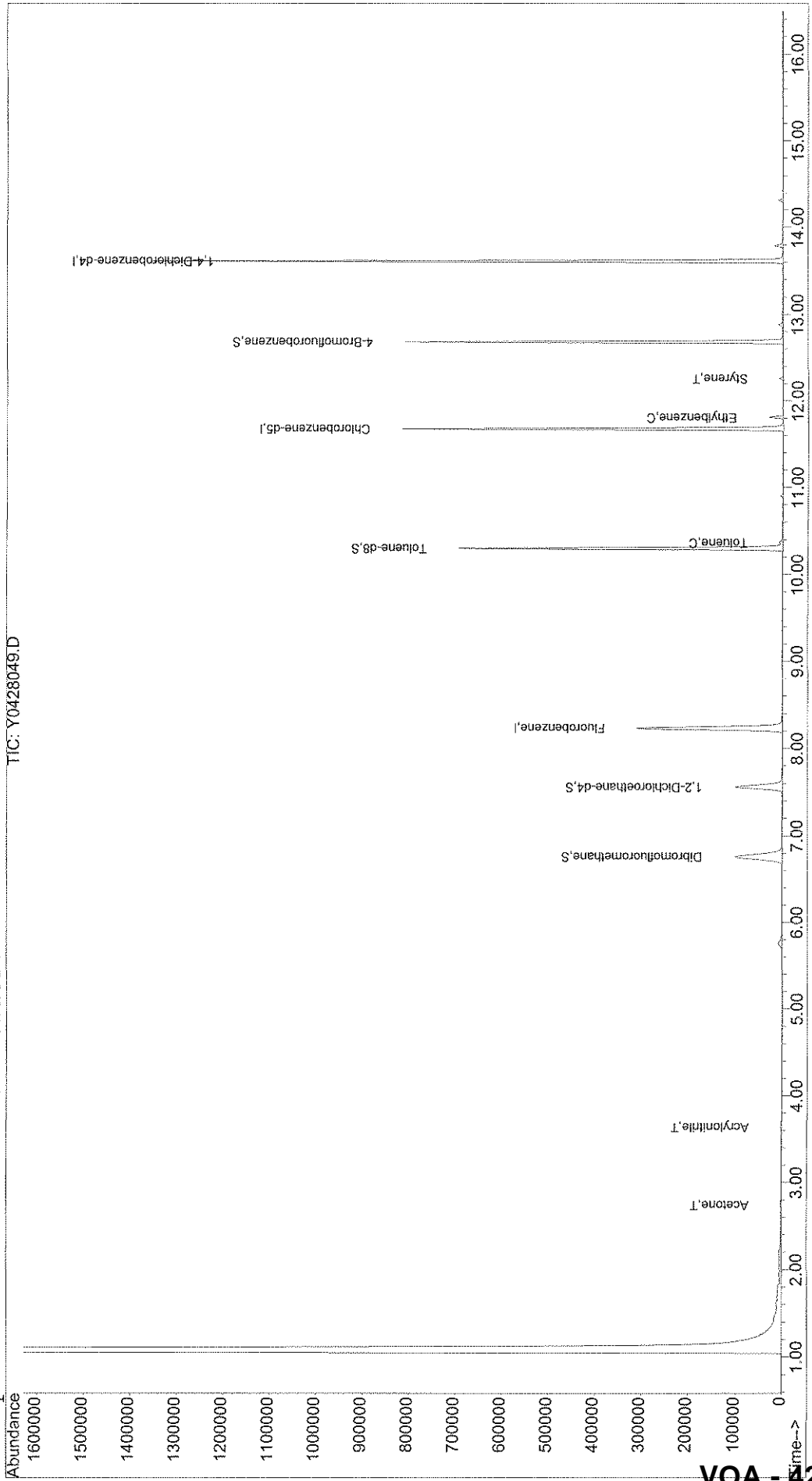
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428049.D Vial: 40
Acq On : 29 Apr 2008 2:12 Operator: LPM
Sample : JPL100-003 Inst : Yoda
Misc : #8 5mL +IS/SS(524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 12:07 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428049.D
 Acq On : 29 Apr 2008 2:12
 Sample : JPL100-003
 Misc : #8 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: Apr 29 12:07 2008

Vial: 40
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	374447	50.00	ug/l	0.00	73.33%
54) Chlorobenzene-d5	11.68	82	203135	50.00	ug/l	0.00	83.05%
74) 1,4-Dichlorobenzene-d4	13.61	152	300585	50.00	ug/l	0.00	85.77%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	131892	53.85	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	107.70%	
40) 1,2-Dichloroethane-d4	7.56	65	120992	51.72	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.44%	
55) Toluene-d8	10.30	98	412414	46.89	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	93.78%	
76) 4-Bromofluorobenzene	12.68	95	195705	50.08	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	100.16%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	67	N.D.		
4) Vinyl Chloride	1.47	62	505	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	2.72	101	56	N.D.		
11) Acetone	2.74	43	2532	2.84	ug/l	93
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	493	N.D.		
15) Allyl chloride	3.10	76	54	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.	d	
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	3.64	53	1404	1.52	ug/l	# 43
21) t-butyl alcohol	0.00	59	0	N.D.	d	
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

u/30/08 up

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

Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428049.D
 Acq On : 29 Apr 2008 2:12
 Sample : JPL100-003
 Misc : #8 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: Apr 29 12:07 2008

Vial: 40
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	0.00	43	0		N.D.	d
31) Propionitrile	0.00	54	0		N.D.	d
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.63	78	402		N.D.	
42) 1,2-Dichloroethane	7.52	62	82		N.D.	
43) Isobutanol	0.00	43	0		N.D.	
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	9.07	83	129		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	10.23	43	181		N.D.	
56) Toluene	10.37	92	1594	0.24	ug/l #	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.97	97	75		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	0.00	43	0		N.D.	d
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	499		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

Handwritten notes:
 < 1/2 PAL
 59
 4/29/08

Handwritten signature:
 4/29/08

Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428049.D
 Acq On : 29 Apr 2008 2:12
 Sample : JPL100-003
 Misc : #8 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: Apr 29 12:07 2008

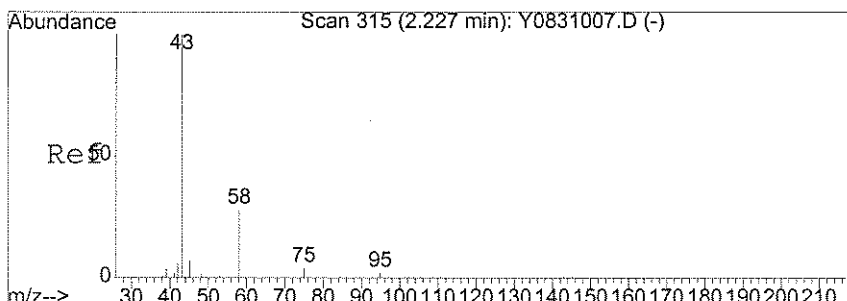
Vial: 40
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

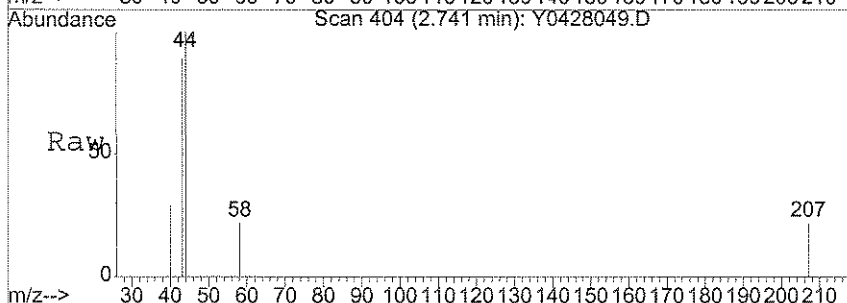
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	17897	1.48	ug/l	98
69) m,p-Xylene	11.91	106	335	N.D.		
70) o-xylene	0.00	106	0	N.D.		
71) Styrene	12.26	104	3321	0.44	ug/l	96
72) Bromoform	12.66	173	53	N.D.		
73) Isopropylbenzene	12.56	105	194	N.D.		
75) trans-1,4-Dichloro-2-buten	0.00	53	0	N.D.		
77) Bromobenzene	12.68	156	226	N.D.		
78) 1,1,2,2-Tetrachloroethane	12.73	83	55	N.D.		
79) 1,2,3-Trichloropropane	0.00	75	0	N.D.	d	
80) n-Propylbenzene	0.00	120	0	N.D.		
81) 2-Chlorotoluene	12.96	91	84	N.D.		
82) 4-Chlorotoluene	13.05	91	71	N.D.		
83) 1,3,5-Trimethylbenzene	0.00	105	0	N.D.	d	
84) tert-Butylbenzene	0.00	119	0	N.D.	d	
85) 1,2,4-Trimethylbenzene	0.00	105	0	N.D.	d	
86) sec-butylbenzene	0.00	105	0	N.D.	d	
87) 1,3-Dichlorobenzene	13.57	146	65	N.D.		
88) 4-Isopropyltoluene	13.59	119	439	N.D.		
89) 1,4-Dichlorobenzene	13.62	146	70	N.D.		
90) 1,2-Dichlorobenzene	13.93	146	64	N.D.		
91) n-Butylbenzene	13.92	91	386	N.D.		
92) 1,2-Dibromo-3-chloropropan	0.00	75	0	N.D.		
93) 1,2,4-Trichlorobenzene	15.17	180	124	N.D.		
94) Hexachlorobutadiene	15.30	225	117	N.D.		
95) Naphthalene	15.36	128	146	N.D.		
96) 1,2,3-Trichlorobenzene	15.56	180	81	N.D.		

4/30/08 LPM

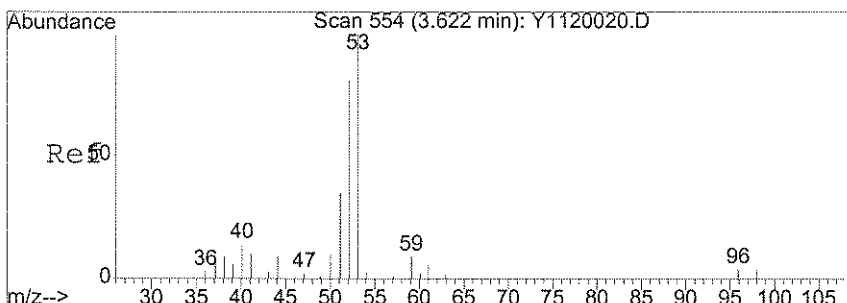
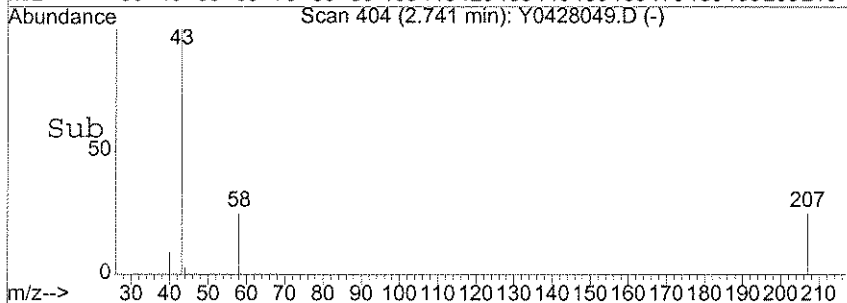
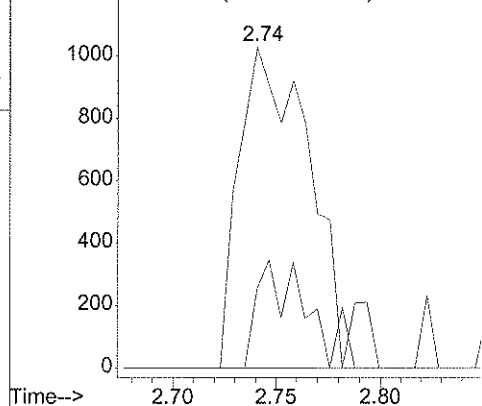


#11
 Acetone
 Concen: 2.84 ug/l
 RT: 2.74 min Scan# 404
 Delta R.T. 0.01 min
 Lab File: Y0428049.D
 Acq: 29 Apr 2008 2:12

Tgt Ion	Resp	Lower	Upper
43	2532		
58	22.8	21.3	31.9

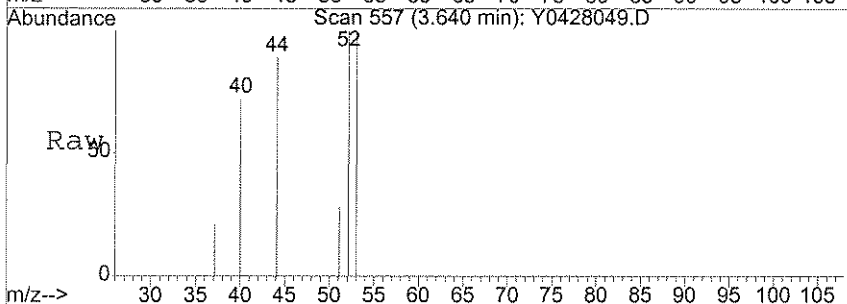


Abundance Ion 43.15 (42.85 to 43.85): Y0428049.D
 1200 Ion 58.05 (57.75 to 58.75): Y0428049.D

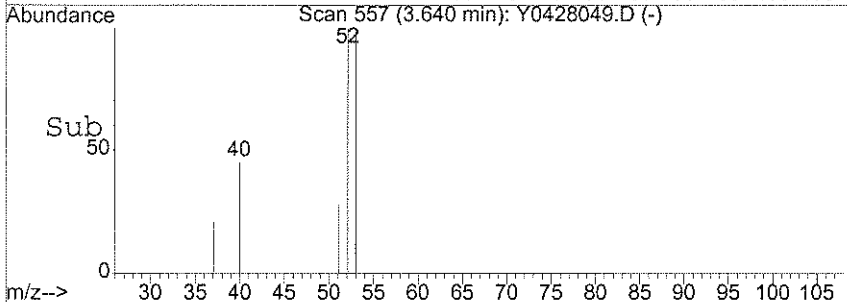
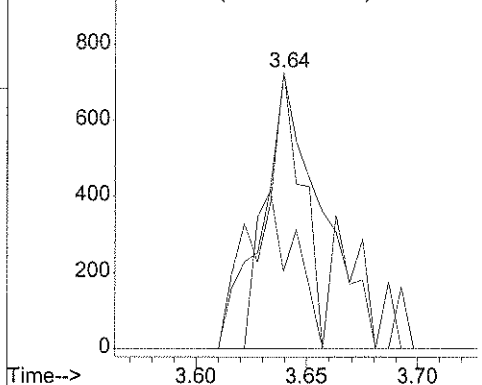


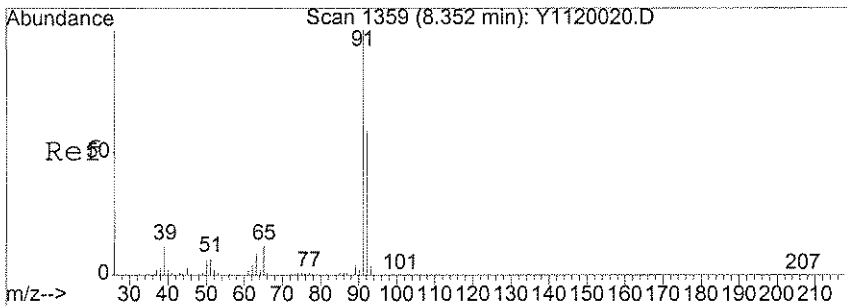
#20
 Acrylonitrile
 Concen: 1.52 ug/l
 RT: 3.64 min Scan# 557
 Delta R.T. 0.02 min
 Lab File: Y0428049.D
 Acq: 29 Apr 2008 2:12

Tgt Ion	Resp	Lower	Upper
53	1404		
52	66.5	0.0	0.0#
51	36.3	72.2	108.4#



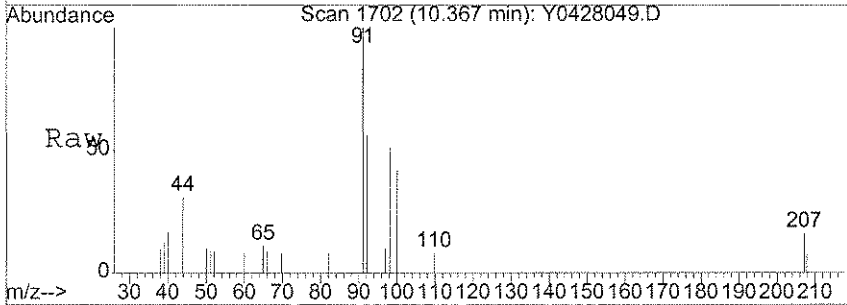
Abundance Ion 53.05 (52.75 to 53.75): Y0428049.D
 1000 Ion 52.05 (51.75 to 52.75): Y0428049.D
 Ion 51.05 (50.75 to 51.75): Y0428049.D



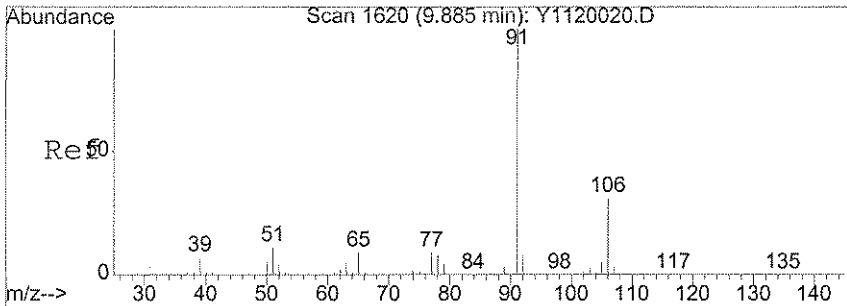
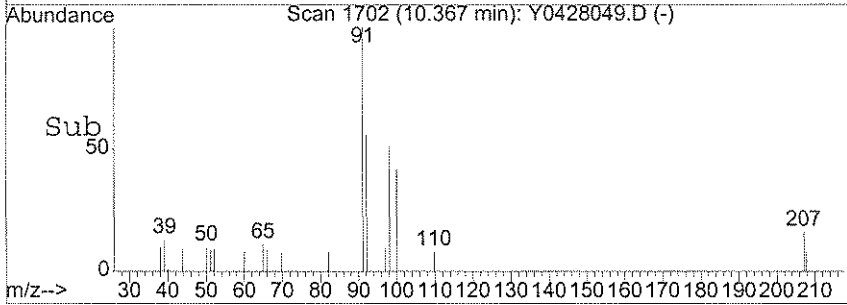
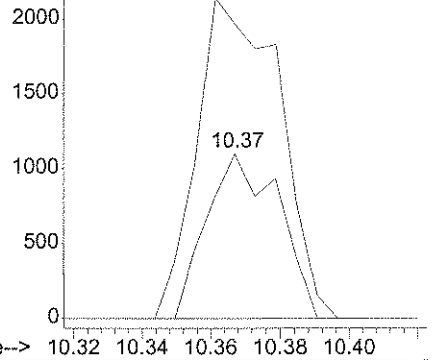


#56
 Toluene
 Concen: 0.24 ug/l
 RT: 10.37 min Scan# 1702
 Delta R.T. 0.00 min
 Lab File: Y0428049.D
 Acq: 29 Apr 2008 2:12

Tgt Ion: 92 Resp: 1594
 Ion Ratio Lower Upper
 92 100
 91 222.5 133.7 200.5#

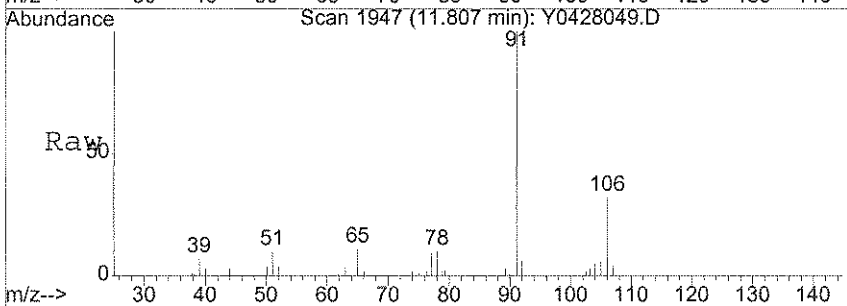


Abundance Ion 92.05 (91.75 to 92.75): Y0428049.D
 2500 Ion 91.05 (90.75 to 91.75): Y0428049.D

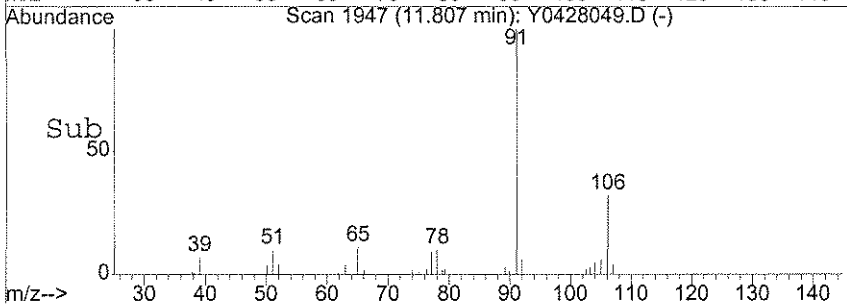
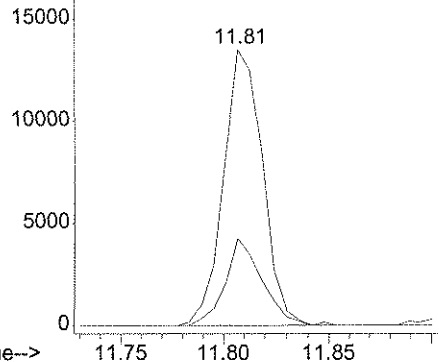


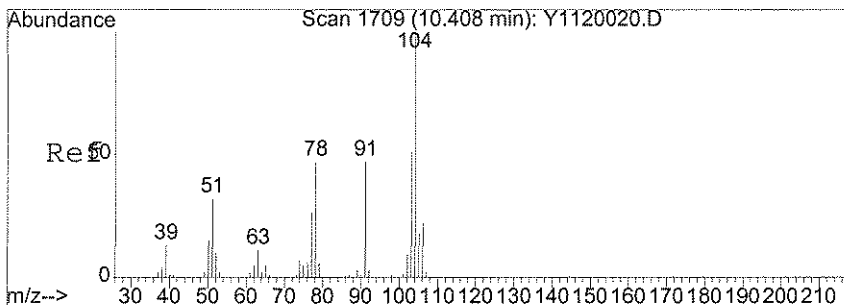
#68
 Ethylbenzene
 Concen: 1.48 ug/l
 RT: 11.81 min Scan# 1947
 Delta R.T. -0.01 min
 Lab File: Y0428049.D
 Acq: 29 Apr 2008 2:12

Tgt Ion: 91 Resp: 17897
 Ion Ratio Lower Upper
 91 100
 106 31.6 26.1 39.1
 112 0.0 0.0 0.0



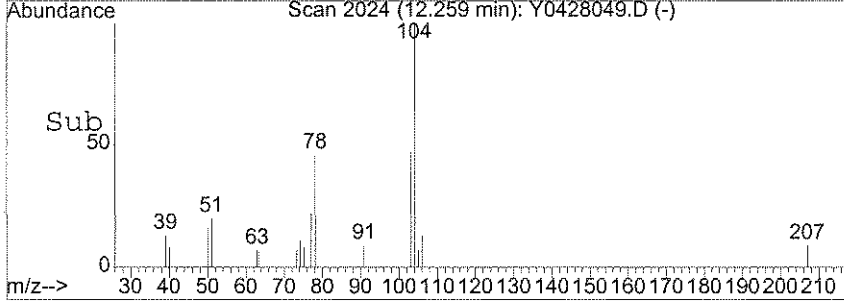
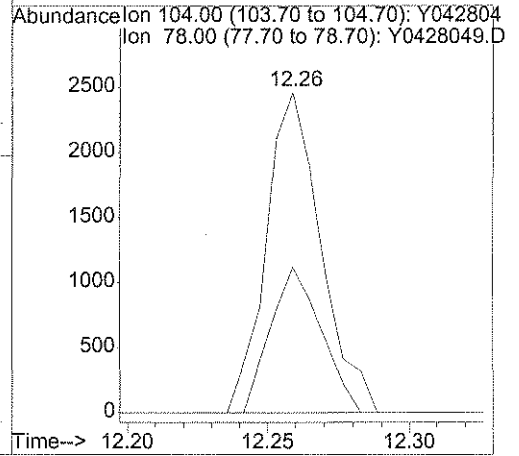
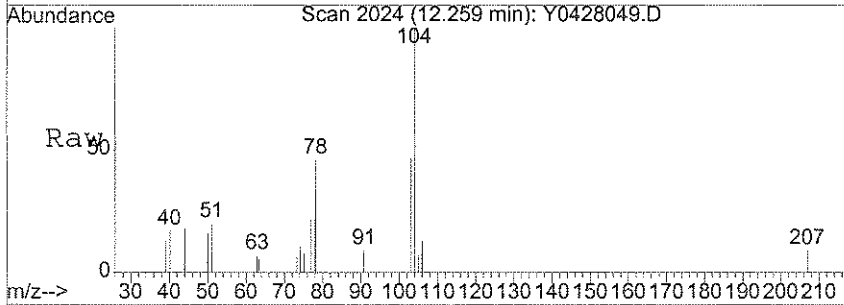
Abundance Ion 91.05 (90.75 to 91.75): Y0428049.D
 Ion 106.15 (105.85 to 106.85): Y0428049.D
 Ion 112.05 (111.75 to 112.75): Y0428049.D





#71
 Styrene
 Concen: 0.44 ug/l
 RT: 12.26 min Scan# 2024
 Delta R.T. 0.00 min
 Lab File: Y0428049.D
 Acq: 29 Apr 2008 2:12

Tgt Ion: 104 Resp: 3321
 Ion Ratio Lower Upper
 104 100
 78 42.0 19.7 59.7



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-2

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-004
 Lab File ID: Y0428050.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/29/2008 02:37
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.80	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-2

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-004
 Lab File ID: Y0428050.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/29/2008 02:37
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.36	J
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-2

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-004
 Lab File ID: Y0428050.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/29/2008 02:37
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

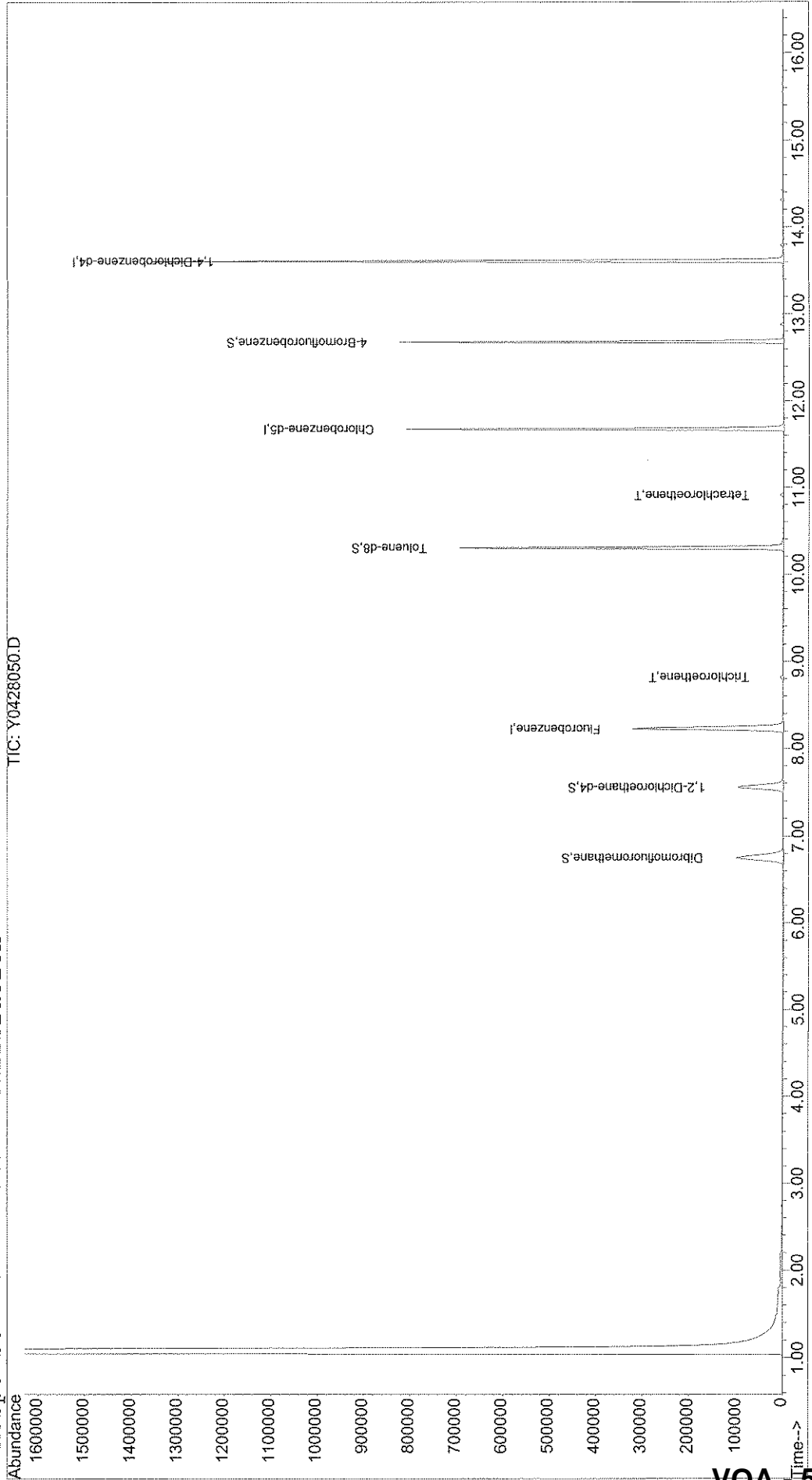
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428050.D Vial: 41
Acq On : 29 Apr 2008 2:37 Operator: LPM
Sample : JPL100-004 Inst : Yoda
Misc : #3 5mL +IS/SS(524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 29 12:08 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428050.D
 Acq On : 29 Apr 2008 2:37
 Sample : JPL100-004
 Misc : #3 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: Apr 29 12:08 2008

Vial: 41
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)

Title : VOA 8260- 5ML Calibration 5973Y

Last Update : Thu Apr 17 07:07:54 2008

Response via : Initial Calibration

DataAcq Meth : 8260

IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	379193	50.00	ug/l	0.00	74.26%
54) Chlorobenzene-d5	11.68	82	200893	50.00	ug/l	0.00	82.13%
74) 1,4-Dichlorobenzene-d4	13.61	152	298357	50.00	ug/l	0.00	85.13%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	132270	53.32	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	106.64%	
40) 1,2-Dichloroethane-d4	7.56	65	120924	51.04	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.08%	
55) Toluene-d8	10.30	98	417379	47.98	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	95.96%	
76) 4-Bromofluorobenzene	12.68	95	192559	49.65	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	99.30%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	0.00	50	0	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	0.00	43	0	N.D.	d	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	247	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

4/29/08

(#) = qualifier out of range (m) = manual integration
 Y0428050.D Y8260W.M Tue Apr 29 12:08:43 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428050.D
 Acq On : 29 Apr 2008 2:37
 Sample : JPL100-004
 Misc : #3 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: Apr 29 12:08 2008

Vial: 41
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	4.32	63	420		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	0.00	43	0		N.D.	d
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	6.21	41	61		N.D.	
34) Chloroform	6.32	83	794		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.64	78	256		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	8.82	130	2443	0.80	ug/l	86
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	9.52	41	60		N.D.	
50) Bromodichloromethane	9.50	83	95		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.37	92	66		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0		N.D.	
60) Tetrachloroethene	10.91	166	1190	0.36	ug/l	91
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	10.91	43	115		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	d
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	115		N.D.	
66) 1-Chlorohexane	11.71	91	56		N.D.	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

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

Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428050.D
 Acq On : 29 Apr 2008 2:37
 Sample : JPL100-004
 Misc : #3 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: Apr 29 12:08 2008

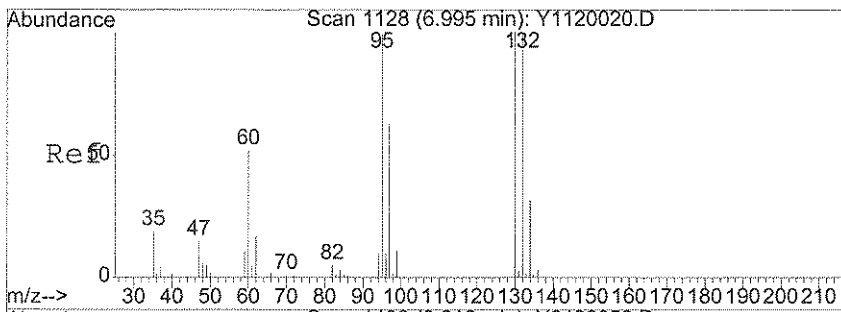
Vial: 41
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

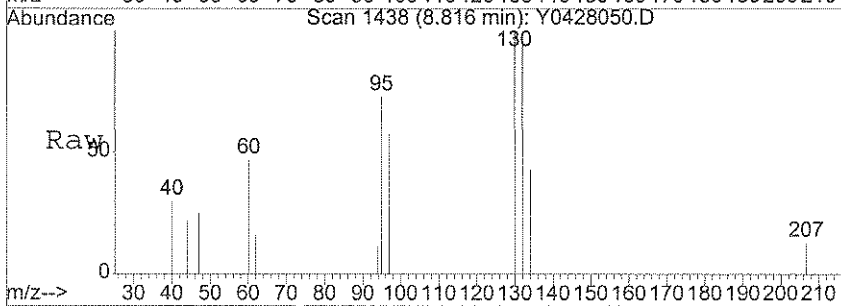
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.80	91	303		N.D.	
69) m,p-Xylene	0.00	106	0		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.68	105	177		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	0.00	156	0		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.95	91	60		N.D.	
82) 4-Chlorotoluene	13.05	91	70		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	53		N.D.	
88) 4-Isopropyltoluene	13.60	119	76		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	133		N.D.	
90) 1,2-Dichlorobenzene	13.92	146	438		N.D.	
91) n-Butylbenzene	13.92	91	401		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	181		N.D.	
94) Hexachlorobutadiene	15.30	225	65		N.D.	
95) Naphthalene	0.00	128	0		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	578		N.D.	

4/29/08 LPM

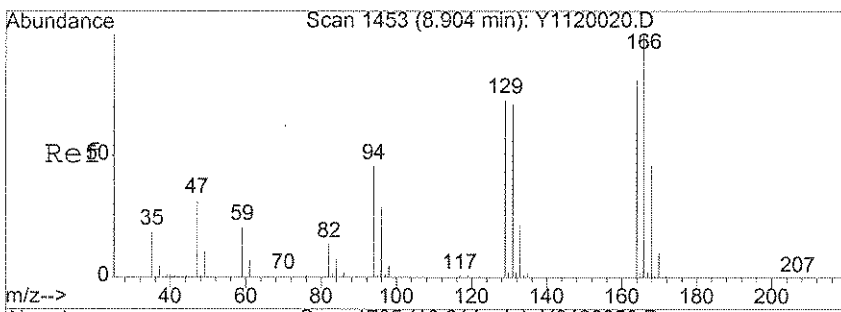
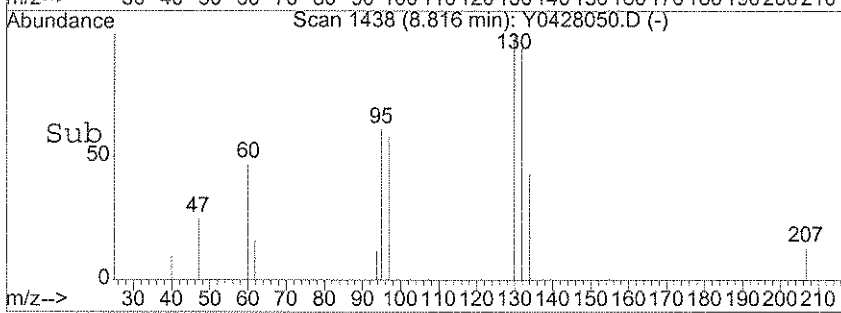
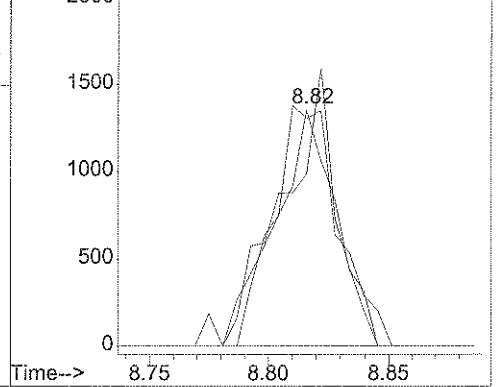


#45
 Trichloroethene
 Concen: 0.80 ug/l
 RT: 8.82 min Scan# 1438
 Delta R.T. 0.00 min
 Lab File: Y0428050.D
 Acq: 29 Apr 2008 2:37

Tgt Ion	Resp	Lower	Upper
130	2443		
130	100		
132	107.0	75.0	115.0
95	104.2	69.4	109.4

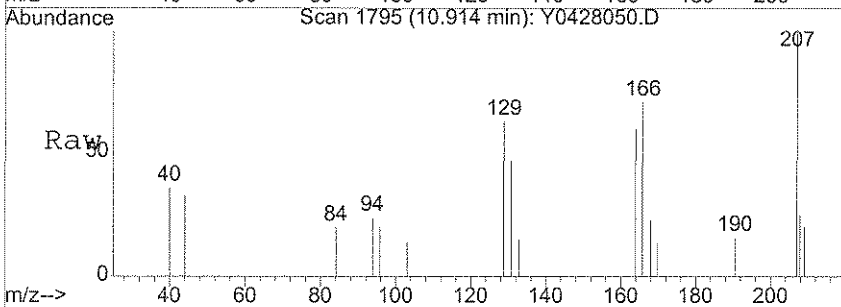


Abundance Ion 130.00 (129.70 to 130.70): Y042805
 Ion 132.00 (131.70 to 132.70): Y042805
 Ion 95.00 (94.70 to 95.70): Y0428050.D

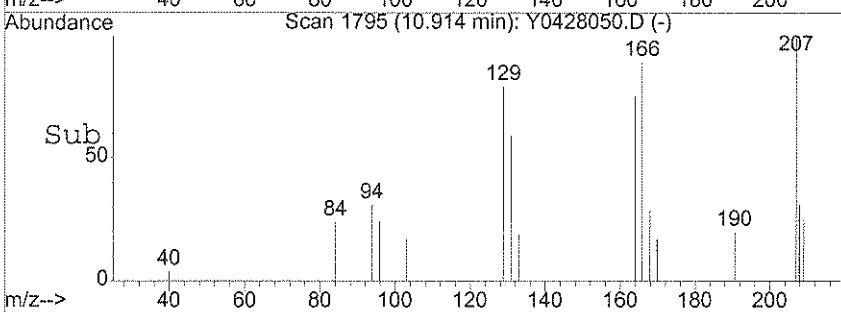
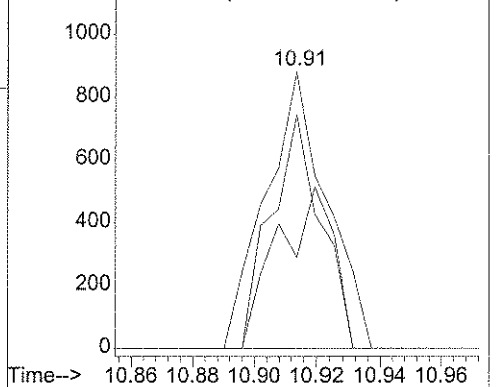


#60
 Tetrachloroethene
 Concen: 0.36 ug/l
 RT: 10.91 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: Y0428050.D
 Acq: 29 Apr 2008 2:37

Tgt Ion	Resp	Lower	Upper
166	1190		
166	100		
164	69.2	63.3	94.9
168	53.4	39.6	59.4



Abundance Ion 165.95 (165.65 to 166.65): Y042805
 Ion 163.95 (163.65 to 164.65): Y042805
 Ion 167.95 (167.65 to 168.65): Y042805



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-1

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-005
 Lab File ID: Y0428051.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/29/2008 03:02
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.25	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-1

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-005
 Lab File ID: Y0428051.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/29/2008 03:02
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-1

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-005
 Lab File ID: Y0428051.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/29/2008 03:02
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

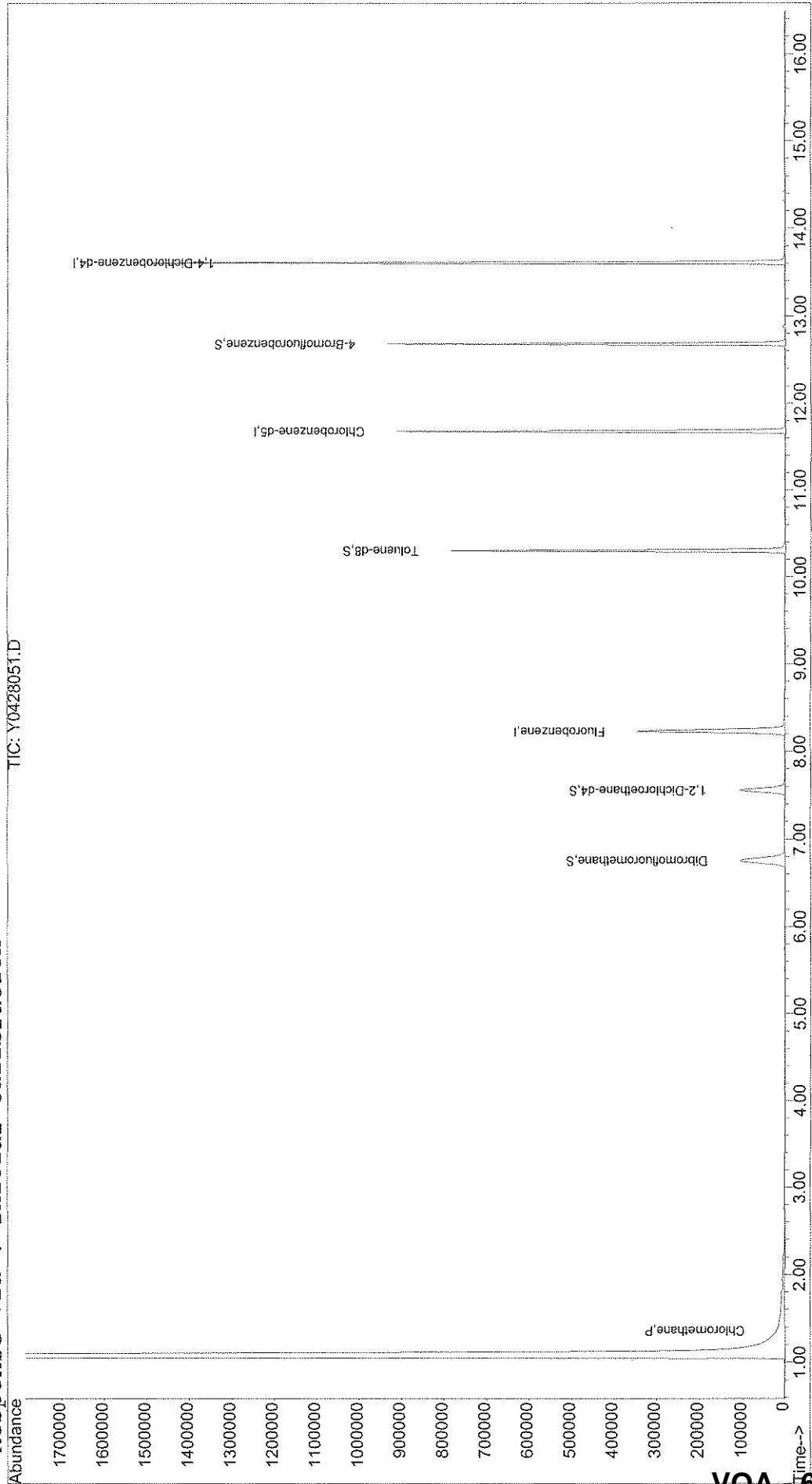
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428051.D Vial: 42
Acq On : 29 Apr 2008 3:02 Operator: LPM
Sample : JPL100-005 Inst : Yoda
Misc : #4 5mL +IS/SS(524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 30 9:34 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428051.D
 Acq On : 29 Apr 2008 3:02
 Sample : JPL100-005
 Misc : #4 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: Apr 30 9:34 2008

Vial: 42
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	408844	50.00	ug/l	0.00	80.07%
54) Chlorobenzene-d5	11.68	82	226967	50.00	ug/l	0.00	92.79%
74) 1,4-Dichlorobenzene-d4	13.61	152	326278	50.00	ug/l	0.00	93.10%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	144391	53.99	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	107.98%	
40) 1,2-Dichloroethane-d4	7.56	65	130581	51.12	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.24%	
55) Toluene-d8	10.30	98	455055	46.30	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	92.60%	
76) 4-Bromofluorobenzene	12.68	95	214964	50.68	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	101.36%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	1255	0.25	ug/l	91
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	0.00	43	0	N.D.	d	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.88	76	145	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	3.75	96	63	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

4/30/08 LPM

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

Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428051.D
 Acq On : 29 Apr 2008 3:02
 Sample : JPL100-005
 Misc : #4 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: Apr 30 9:34 2008

Vial: 42
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	5.51	77	55		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	5.50	43	152		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.66	78	526		N.D.	
42) 1,2-Dichloroethane	7.60	62	63		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	9.05	83	130		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.37	92	62		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.76	97	56		N.D.	
60) Tetrachloroethene	10.91	166	71		N.D.	
61) 1,3-Dichloropropane	11.18	76	58		N.D.	
62) 2-Hexanone	11.09	43	142		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	0.00	112	0		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

4/30/08 LPM

(#) = qualifier out of range (m) = manual integration
 Y0428051.D Y8260W.M Wed Apr 30 09:34:26 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428051.D
 Acq On : 29 Apr 2008 3:02
 Sample : JPL100-005
 Misc : #4 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: Apr 30 9:34 2008

Vial: 42
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

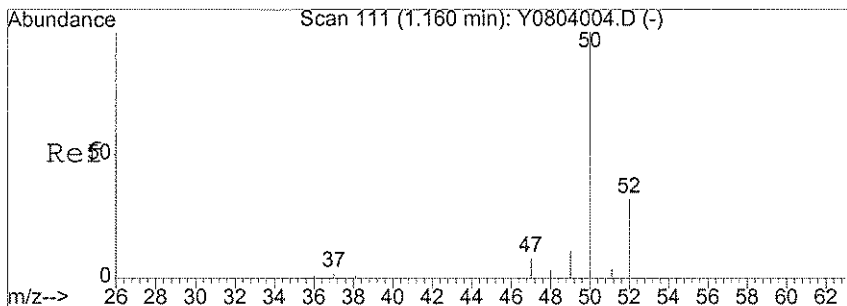
Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	165		N.D.	
69) m,p-Xylene	11.81	106	56		N.D.	
70) o-xylene	12.25	106	69		N.D.	
71) Styrene	12.26	104	63		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.57	105	66		N.D.	
75) trans-1,4-Dichloro-2-buten	12.51	53	67		N.D.	
77) Bromobenzene	12.70	156	69		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.69	83	54		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.96	91	63		N.D.	
82) 4-Chlorotoluene	12.96	91	63		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	56		N.D.	
88) 4-Isopropyltoluene	13.59	119	182		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	90		N.D.	
90) 1,2-Dichlorobenzene	14.01	146	63		N.D.	
91) n-Butylbenzene	13.91	91	198		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	223		N.D.	
94) Hexachlorobutadiene	15.31	225	68		N.D.	
95) Naphthalene	15.36	128	94		N.D.	
96) 1,2,3-Trichlorobenzene	15.17	180	223		N.D.	

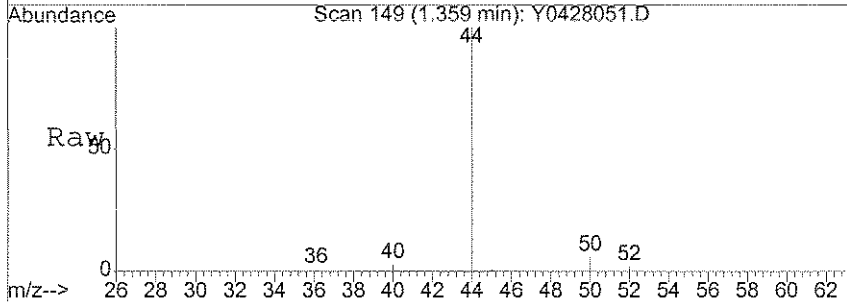
4/30/08

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

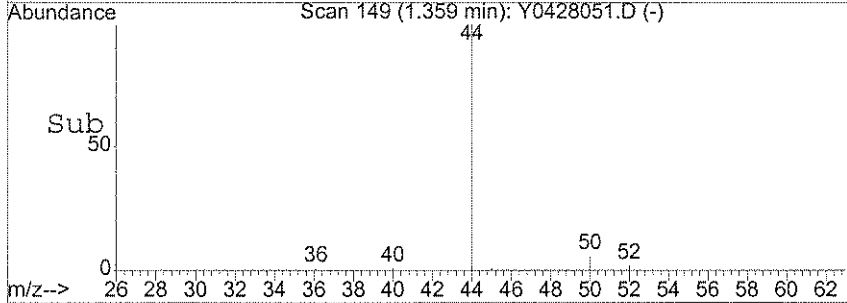
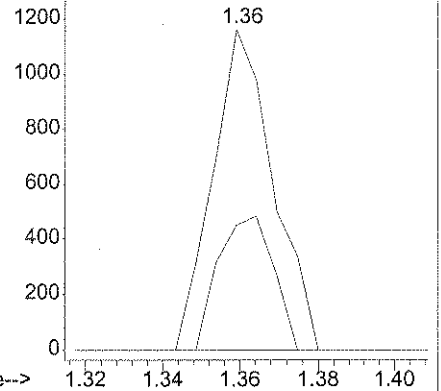


#3
 Chloromethane
 Concen: 0.25 ug/l
 RT: 1.36 min Scan# 149
 Delta R.T. -0.01 min
 Lab File: Y0428051.D
 Acq: 29 Apr 2008 3:02

Tgt Ion: 50 Resp: 1255
 Ion Ratio Lower Upper
 50 100
 52 38.0 13.0 53.0



Abundance Ion 50.00 (49.70 to 50.70): Y0428051.D
 Ion 52.00 (51.70 to 52.70): Y0428051.D



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-03-4/24/08

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-006
 Lab File ID: Y0428052.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/29/2008 03:26
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.58	
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.29	J
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-03-4/24/08

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-006
 Lab File ID: Y0428052.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/29/2008 03:26
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-03-4/24/08

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-006
 Lab File ID: Y0428052.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/29/2008 03:26
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

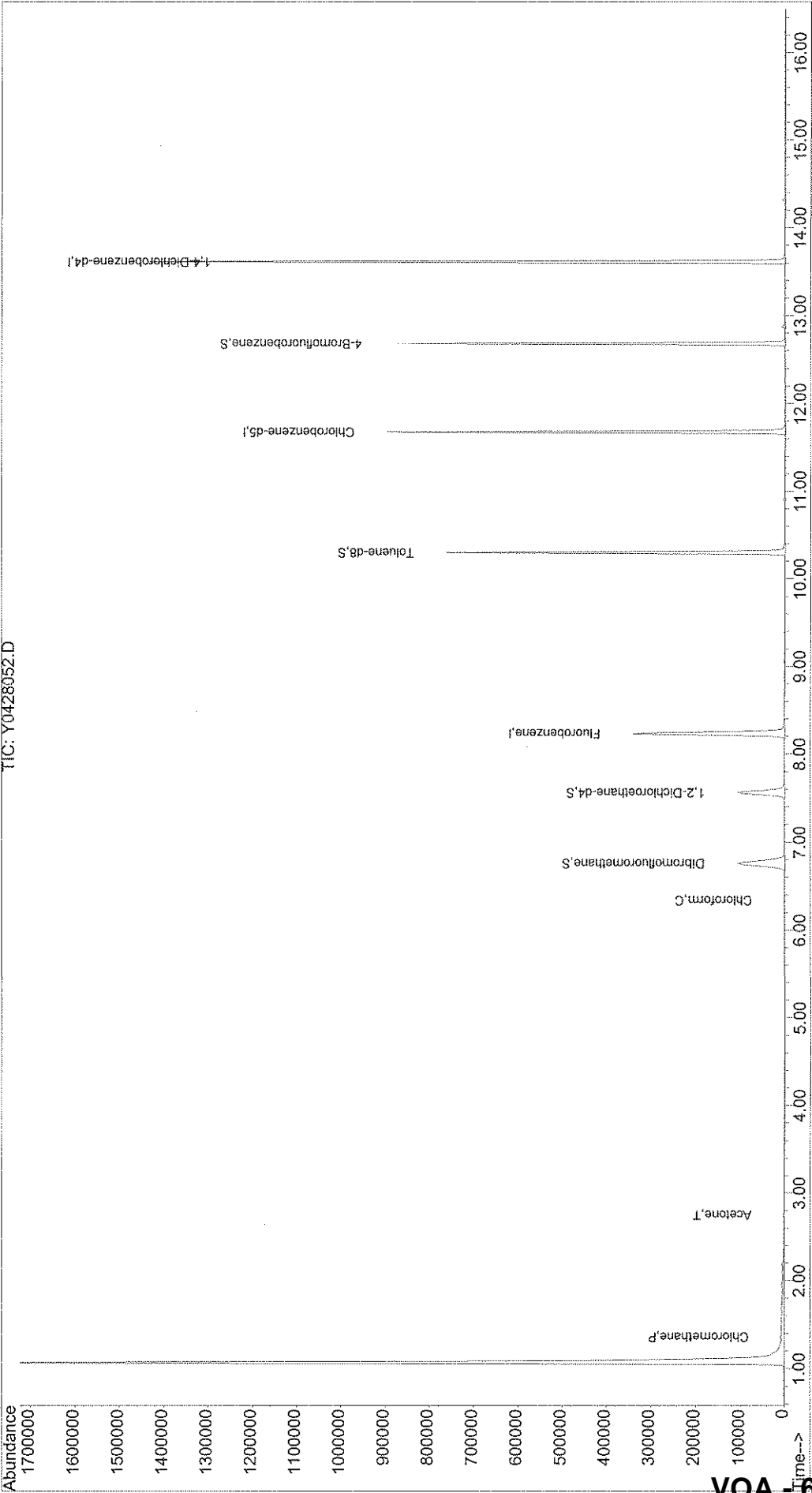
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428052.D
Acq On : 29 Apr 2008 3:26 Vial: 43
Sample : JPL100-006 Operator: LPM
Misc : #2 5mL +IS/SS(524) Inst : yoda
MS Integration Params: rteint.p Multiplr: 1.00
Quant Time: Apr 30 9:35 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428052.D
 Acq On : 29 Apr 2008 3:26
 Sample : JPL100-006
 Misc : #2 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: Apr 30 9:35 2008

Vial: 43
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	401775	50.00	ug/l	0.00	78.68%
54) Chlorobenzene-d5	11.68	82	215775	50.00	ug/l	0.00	88.22%
74) 1,4-Dichlorobenzene-d4	13.61	152	315008	50.00	ug/l	0.00	89.88%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	138843	52.83	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	105.66%	
40) 1,2-Dichloroethane-d4	7.56	65	128278	51.10	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.20%	
55) Toluene-d8	10.30	98	444688	47.59	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	95.18%	
76) 4-Bromofluorobenzene	12.68	95	204149	49.85	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	99.70%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	2838	0.58	ug/l	96
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	2.71	96	60	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.75	43	3020	3.16	ug/l	93
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	53	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.	d	
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

Handwritten signature

(#) = qualifier out of range (m) = manual integration
 Y0428052.D Y8260W.M Wed Apr 30 09:35:22 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428052.D
 Acq On : 29 Apr 2008 3:26
 Sample : JPL100-006
 Misc : #2 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: Apr 30 9:35 2008

Vial: 43
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0	N.D.	
24) Vinyl acetate	0.00	43	0	N.D.	
25) Chloroprene	0.00	53	0	N.D.	
26) Isopropyl ether	0.00	45	0	N.D.	
27) Ethyl-t-butyl ether	0.00	59	0	N.D.	
28) 2,2-Dichloropropane	0.00	77	0	N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0	N.D.	
30) 2-Butanone	0.00	43	0	N.D. d	
31) Propionitrile	0.00	54	0	N.D.	
32) Bromochloromethane	0.00	128	0	N.D.	
33) Methacrylonitrile	0.00	41	0	N.D.	
34) Chloroform	6.35	83	1753	0.29 ug/l #	48
35) 1,1,1-Trichloroethane	0.00	97	0	N.D.	
37) Cyclohexane	6.84	56	53	N.D.	
38) Carbon Tetrachloride	0.00	117	0	N.D.	
39) 1,1-Dichloropropene	0.00	75	0	N.D.	
41) Benzene	7.65	78	324	N.D.	
42) 1,2-Dichloroethane	0.00	62	0	N.D.	
43) Isobutanol	0.00	43	0	N.D. d	
44) t-amyl methyl ether	0.00	73	0	N.D.	
45) Trichloroethene	0.00	130	0	N.D.	
46) Methylcyclohexane	9.06	83	64	N.D.	
47) 1,2-Dichloropropane	0.00	63	0	N.D.	
48) Dibromomethane	0.00	93	0	N.D.	
49) Methyl methacrylate	9.18	41	53	N.D.	
50) Bromodichloromethane	0.00	83	0	N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0	N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0	N.D. d	
56) Toluene	10.37	92	66	N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0	N.D.	
58) Ethyl methacrylate	0.00	69	0	N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0	N.D.	
60) Tetrachloroethene	0.00	166	0	N.D.	
61) 1,3-Dichloropropane	0.00	76	0	N.D.	
62) 2-Hexanone	11.10	43	88	N.D.	
63) Dibromochloromethane	0.00	129	0	N.D.	
64) 1,2-Dibromoethane	0.00	107	0	N.D.	
65) Chlorobenzene	0.00	112	0	N.D.	
66) 1-Chlorohexane	0.00	91	0	N.D. d	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.	

4/30/08

Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428052.D
 Acq On : 29 Apr 2008 3:26
 Sample : JPL100-006
 Misc : #2 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: Apr 30 9:35 2008

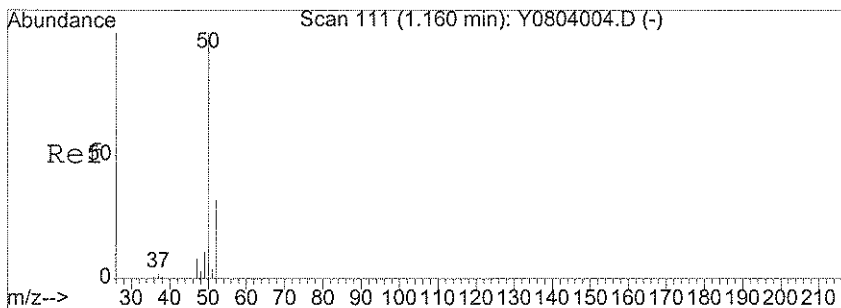
Vial: 43
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

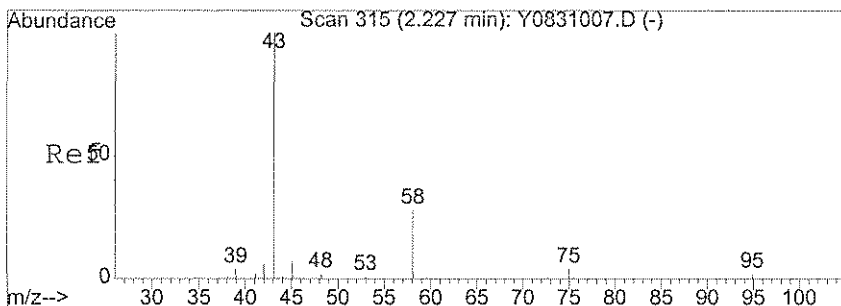
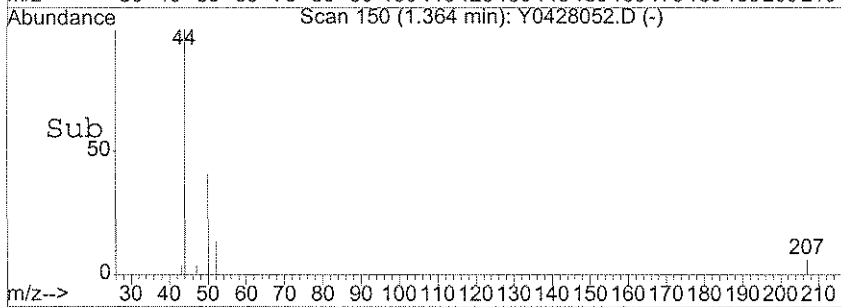
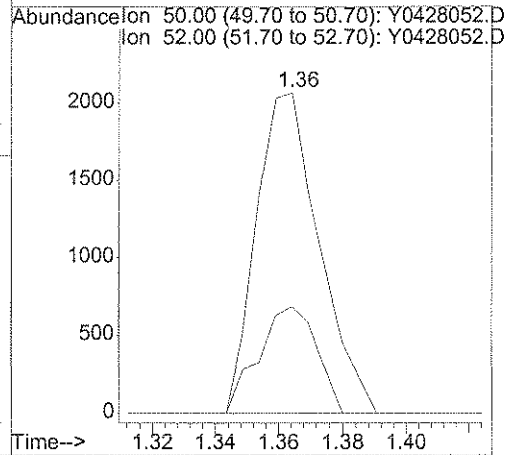
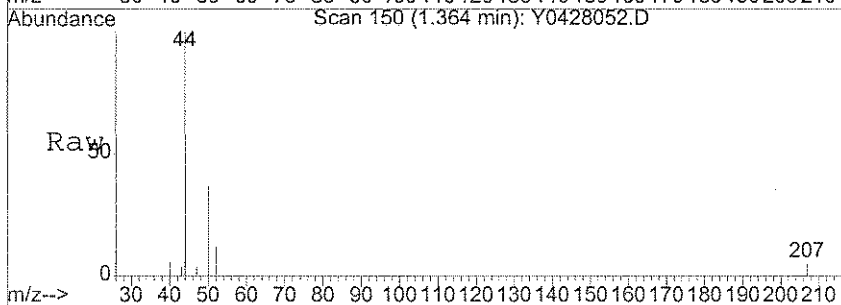
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.91	91	796		N.D.	
69) m,p-Xylene	11.92	106	223		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	12.28	104	57		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.68	105	370		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	172		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.71	83	53		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.97	91	62		N.D.	
82) 4-Chlorotoluene	13.05	91	116		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	0.00	146	0		N.D.	
88) 4-Isopropyltoluene	13.59	119	178		N.D.	
89) 1,4-Dichlorobenzene	0.00	146	0		N.D.	
90) 1,2-Dichlorobenzene	0.00	146	0		N.D.	
91) n-Butylbenzene	13.91	91	287		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	56		N.D.	
94) Hexachlorobutadiene	15.30	225	62		N.D.	
95) Naphthalene	15.36	128	219		N.D.	
96) 1,2,3-Trichlorobenzene	15.17	180	56		N.D.	

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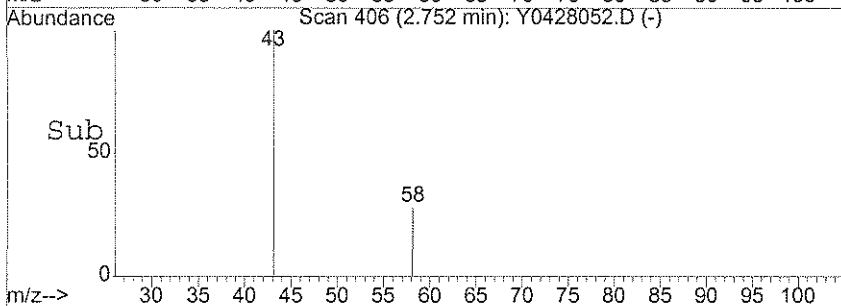
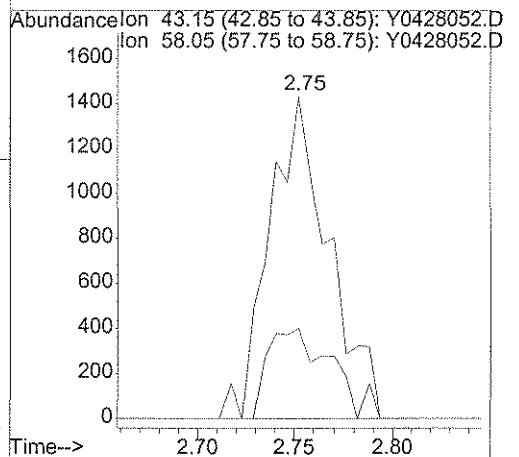
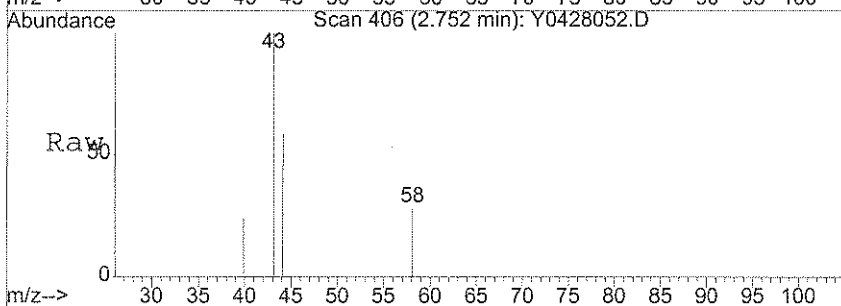
#3
 Chloromethane
 Concen: 0.58 ug/l
 RT: 1.36 min Scan# 150
 Delta R.T. -0.01 min
 Lab File: Y0428052.D
 Acq: 29 Apr 2008 3:26

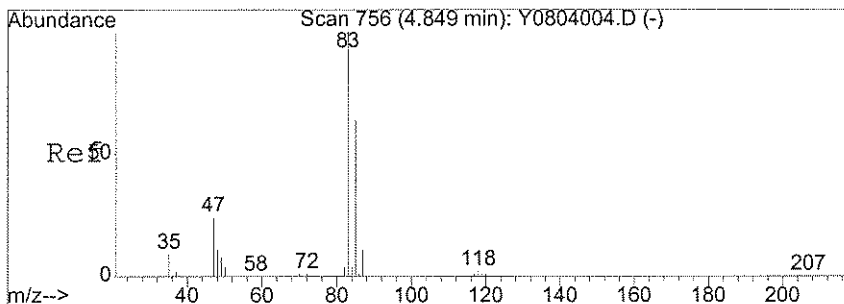
Tgt Ion: 50 Resp: 2838
 Ion Ratio Lower Upper
 50 100
 52 30.8 13.0 53.0



#11
 Acetone
 Concen: 3.16 ug/l
 RT: 2.75 min Scan# 406
 Delta R.T. 0.02 min
 Lab File: Y0428052.D
 Acq: 29 Apr 2008 3:26

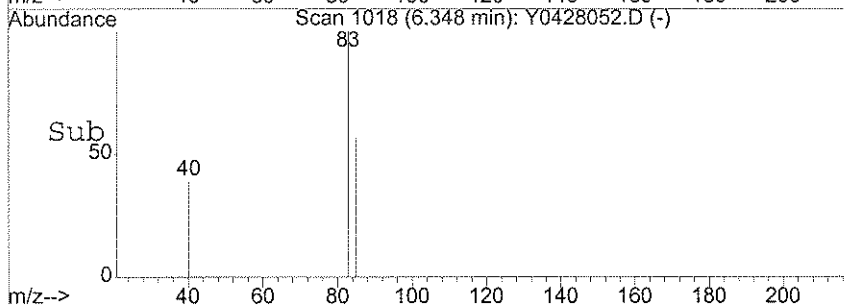
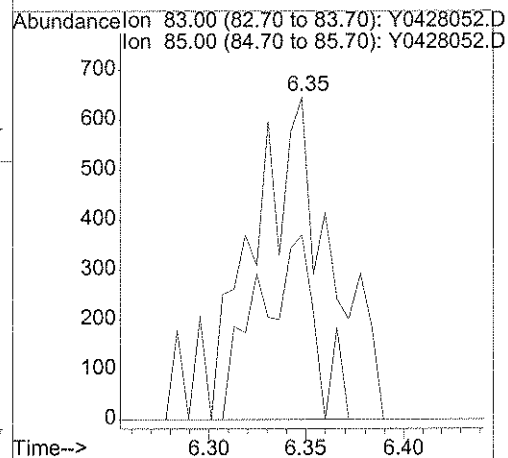
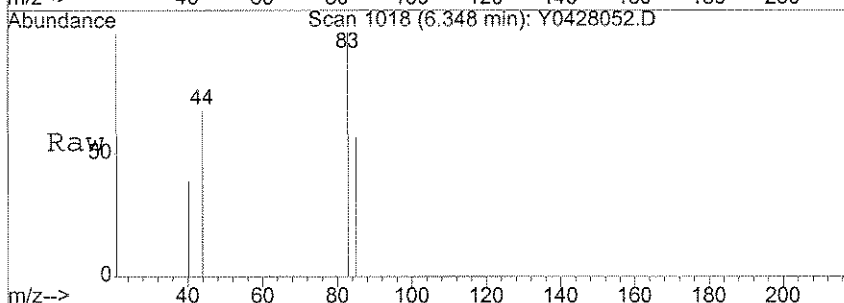
Tgt Ion: 43 Resp: 3020
 Ion Ratio Lower Upper
 43 100
 58 30.0 21.3 31.9





#34
 Chloroform
 Concen: 0.29 ug/l
 RT: 6.35 min Scan# 1018
 Delta R.T. 0.01 min
 Lab File: Y0428052.D
 Acq: 29 Apr 2008 3:26

Tgt Ion: 83 Resp: 1753
 Ion Ratio Lower Upper
 83 100
 85 22.5 43.3 83.3#



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-1-2Q08

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-007
 Lab File ID: Y0428053.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/29/2008 03:51
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	Q
		<u>ug/L</u>	
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.55	
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-1-2Q08

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-007
 Lab File ID: Y0428053.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/29/2008 03:51
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-1-2Q08

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-007
 Lab File ID: Y0428053.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/29/2008 03:51
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

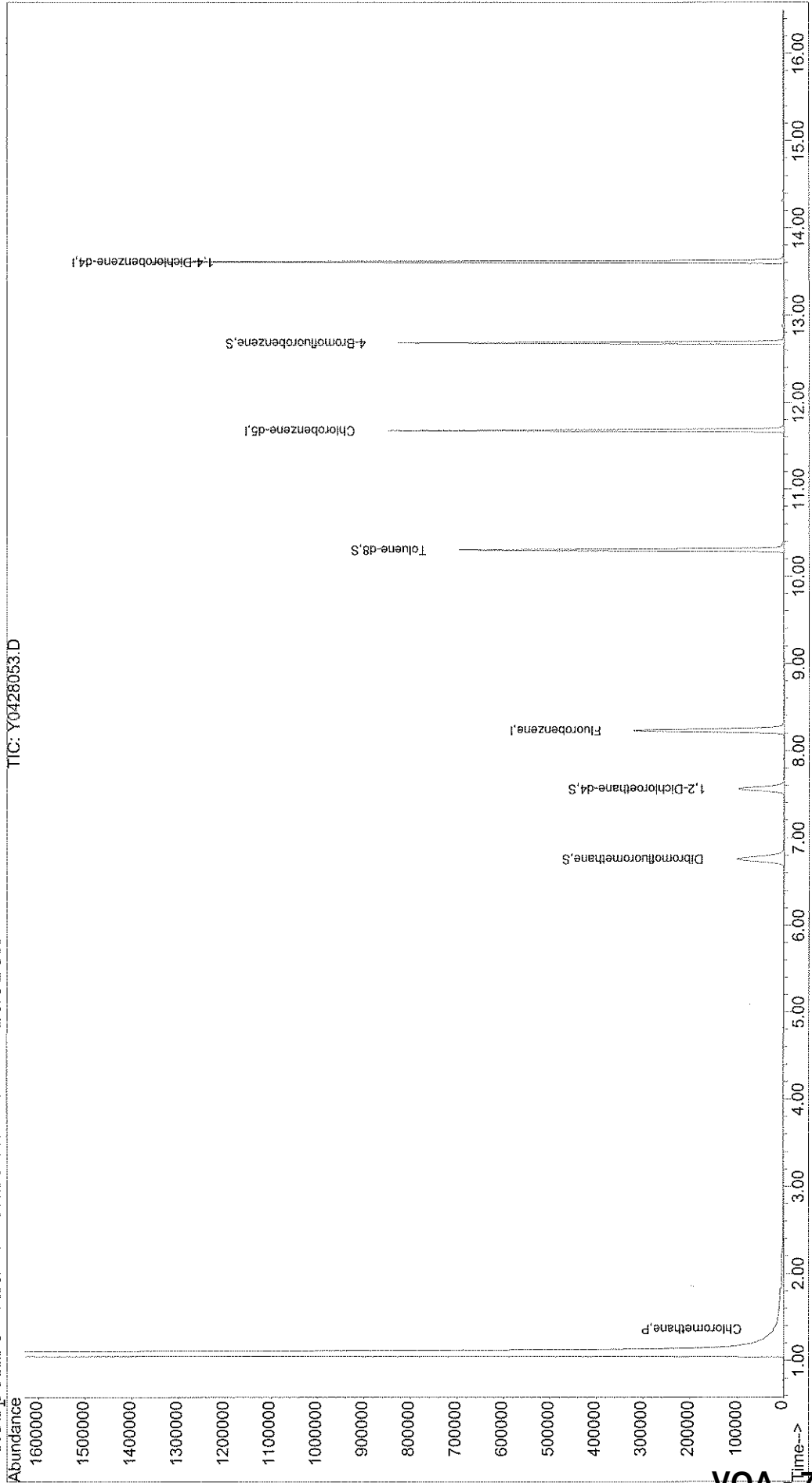
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428053.D Vial: 44
Acq On : 29 Apr 2008 3:51 Operator: LPM
Sample : JPL100-007 Inst : Yoda
Misc : #4 5mL +IS/SS(524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 30 9:36 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



VOA-77

Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428053.D
 Acq On : 29 Apr 2008 3:51
 Sample : JPL100-007
 Misc : #4 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: Apr 30 9:36 2008

Vial: 44
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
						Rcv(Ar)
1) Fluorobenzene	8.23	96	378991	50.00	ug/l	0.00 74.22%
54) Chlorobenzene-d5	11.68	82	204973	50.00	ug/l	0.00 83.80%
74) 1,4-Dichlorobenzene-d4	13.61	152	301479	50.00	ug/l	0.00 86.02%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	132246	53.34	ug/l	0.00
Spiked Amount	50.000	Range	85 - 115	Recovery	=	106.68%
40) 1,2-Dichloroethane-d4	7.56	65	119433	50.44	ug/l	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.88%
55) Toluene-d8	10.30	98	411606	46.38	ug/l	0.00
Spiked Amount	50.000	Range	85 - 120	Recovery	=	92.76%
76) 4-Bromofluorobenzene	12.68	95	195680	49.93	ug/l	0.00
Spiked Amount	50.000	Range	75 - 120	Recovery	=	99.86%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	2538	0.55	ug/l	95
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	2.63	96	55	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	0.00	43	0	N.D.	d	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	57	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	3.16	43	69	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	3.75	96	55	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

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Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428053.D
 Acq On : 29 Apr 2008 3:51
 Sample : JPL100-007
 Misc : #4 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: Apr 30 9:36 2008

Vial: 44
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	5.64	96	54		N.D.	
30) 2-Butanone	0.00	43	0		N.D.	d
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.64	78	431		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	9.05	83	53		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.37	92	294		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.67	97	57		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.21	43	166		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	0.00	112	0		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

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(#) = qualifier out of range (m) = manual integration
 Y0428053.D Y8260W.M Wed Apr 30 09:36:19 2008

Quantitation Report

Data File : X:\MSVOA\YODA\042808\Y0428053.D
 Acq On : 29 Apr 2008 3:51
 Sample : JPL100-007
 Misc : #4 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: Apr 30 9:36 2008

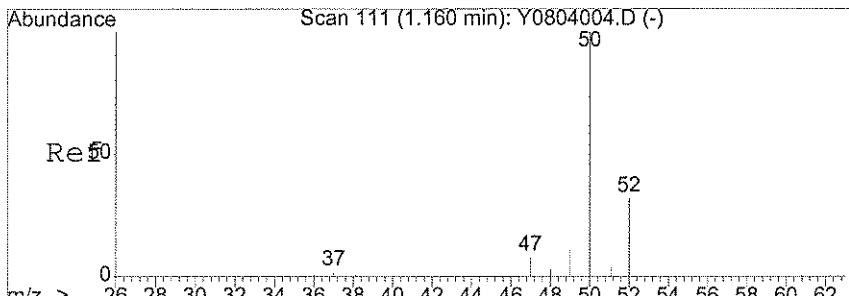
Vial: 44
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

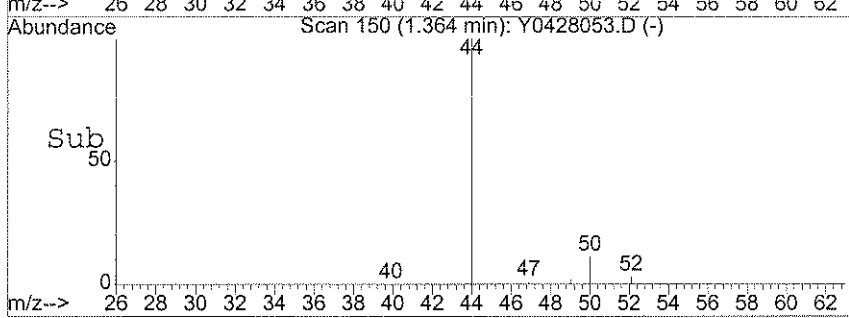
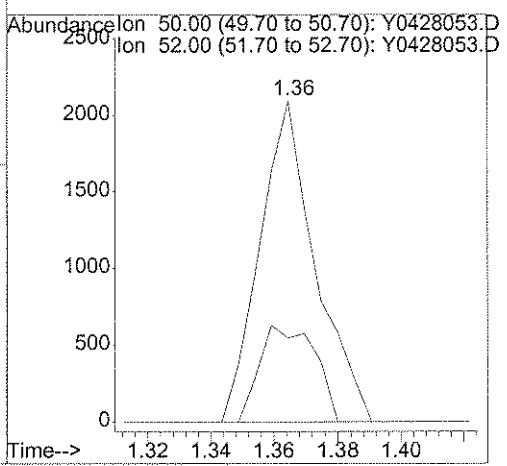
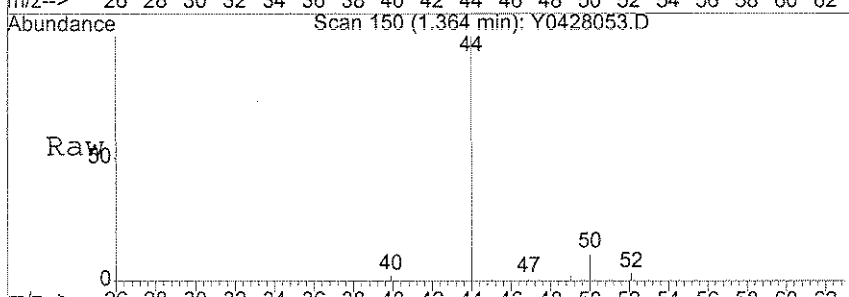
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.80	91	181		N.D.	
69) m,p-Xylene	11.91	106	128		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	12.70	173	88		N.D.	
73) Isopropylbenzene	12.68	105	213		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	0.00	156	0		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	13.05	120	61		N.D.	
81) 2-Chlorotoluene	12.89	91	82		N.D.	
82) 4-Chlorotoluene	13.05	91	69		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	0.00	146	0		N.D.	
88) 4-Isopropyltoluene	13.59	119	83		N.D.	
89) 1,4-Dichlorobenzene	0.00	146	0		N.D.	
90) 1,2-Dichlorobenzene	0.00	146	0		N.D.	
91) n-Butylbenzene	13.92	91	212		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	0.00	180	0		N.D.	
94) Hexachlorobutadiene	15.30	225	138		N.D.	
95) Naphthalene	0.00	128	0		N.D.	
96) 1,2,3-Trichlorobenzene	0.00	180	0		N.D.	

4/30/08 LPM



#3
 Chloromethane
 Concen: 0.55 ug/l
 RT: 1.36 min Scan# 150
 Delta R.T. -0.01 min
 Lab File: Y0428053.D
 Acq: 29 Apr 2008 3:51

Tgt Ion: 50 Resp: 2538
 Ion Ratio Lower Upper
 50 100
 52 30.0 13.0 53.0



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-03-4/24/08

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL100-008
 Lab File ID: Y0430017.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/30/2008 13:16
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-03-4/24/08

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL100-008
 Lab File ID: Y0430017.D
 Date Collected: 04/24/2008
 Date/Time Analyzed: 04/30/2008 13:16
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-03-4/24/08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL100

Run Sequence: R027729

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL100-008

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0430017.D

Level: (LOW/MED) _____

Date Collected: 04/24/2008

% Moisture: not dec. _____

Date/Time Analyzed: 04/30/2008 13:16

GC Column: DB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: _____(uL)

Heated Purge: (Y/N) N

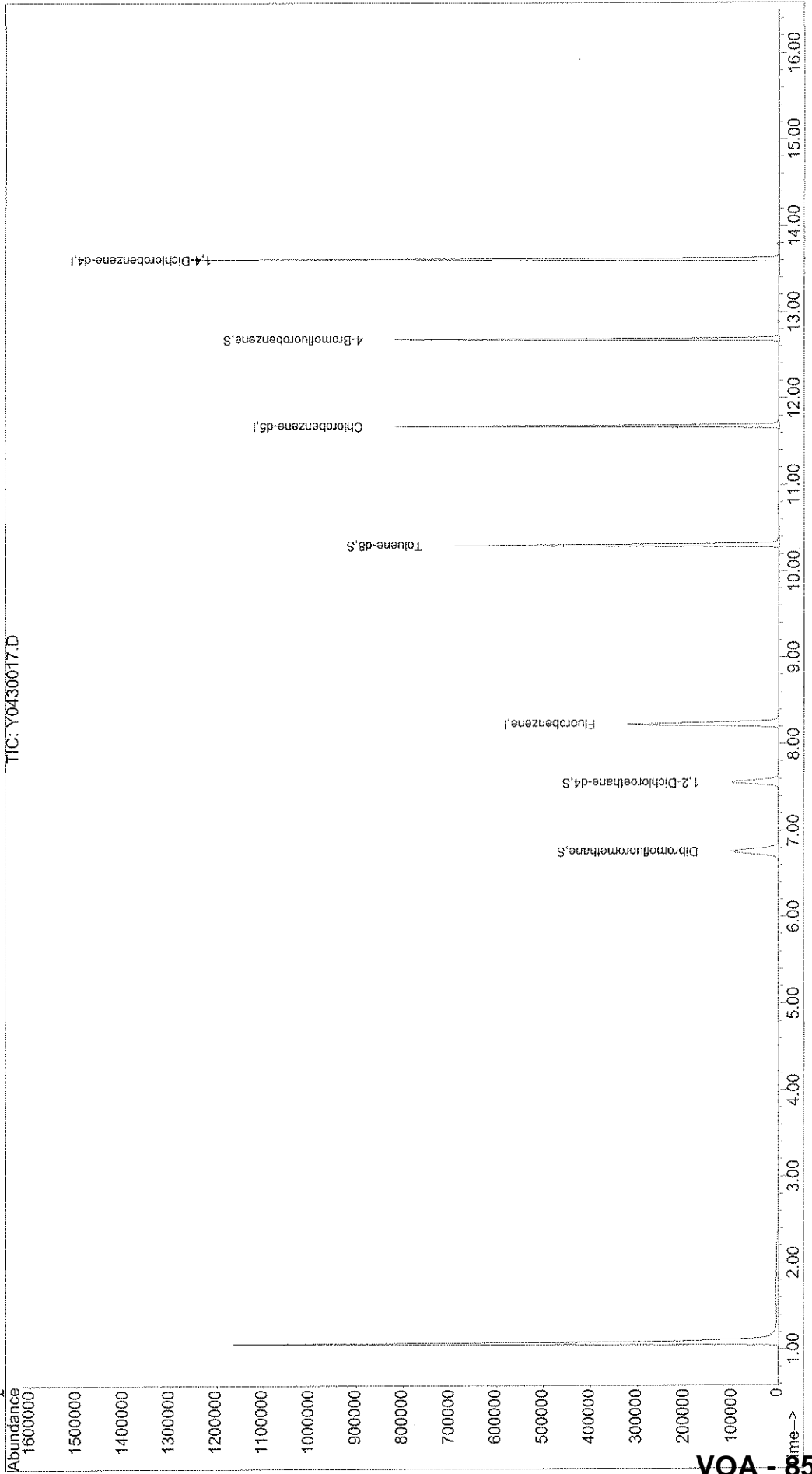
CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430017.D
Acq On : 30 Apr 2008 13:16 Vial: 6
Sample : JPL100-008 Operator: DGA
Misc : #1 5mL +IS/SS(524) Inst : Yoda
MS Integration Params: rteint.p Multiplr: 1.00
Quant Time: May 5 9:11 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260 - 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430017.D
 Acq On : 30 Apr 2008 13:16
 Sample : JPL100-008
 Misc : #1 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:11 2008

Vial: 6
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	374099	50.00	ug/l	0.00 73.26%
54) Chlorobenzene-d5	11.68	82	200743	50.00	ug/l	0.00 82.07%
74) 1,4-Dichlorobenzene-d4	13.61	152	290855	50.00	ug/l	0.00 82.99%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	132931	54.32	ug/l	0.00
Spiked Amount	50.000	Range	85 - 115	Recovery	=	108.64%
40) 1,2-Dichloroethane-d4	7.55	65	121978	52.19	ug/l	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	104.38%
55) Toluene-d8	10.30	98	407082	46.83	ug/l	0.00
Spiked Amount	50.000	Range	85 - 120	Recovery	=	93.66%
76) 4-Bromofluorobenzene	12.68	95	189748	50.18	ug/l	0.00
Spiked Amount	50.000	Range	75 - 120	Recovery	=	100.36%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0		N.D.	
3) Chloromethane	0.00	50	0		N.D.	
4) Vinyl Chloride	0.00	62	0		N.D.	
5) Bromomethane	0.00	96	0		N.D.	
6) Chloroethane	0.00	64	0		N.D.	
7) Trichlorofluoromethane	0.00	101	0		N.D.	
8) Acrolein	0.00	56	0		N.D.	
9) 1,1-Dichloroethene	0.00	96	0		N.D.	
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0		N.D.	
11) Acetone	0.00	43	0		N.D.	d
12) Iodomethane	0.00	142	0		N.D.	
13) Bromoethane	0.00	108	0		N.D.	
14) Carbon Disulfide	2.89	76	99		N.D.	
15) Allyl chloride	0.00	76	0		N.D.	
16) Acetonitrile	0.00	40	0		N.D.	d
17) Methyl Acetate	0.00	43	0		N.D.	
18) Methylene Chloride	0.00	84	0		N.D.	
19) trans-1,2-Dichloroethene	0.00	96	0		N.D.	
20) Acrylonitrile	0.00	53	0		N.D.	
21) t-butyl alcohol	0.00	59	0		N.D.	
22) Methyl tert-butyl ether	0.00	73	0		N.D.	

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Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430017.D
 Acq On : 30 Apr 2008 13:16
 Sample : JPL100-008
 Misc : #1 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:11 2008

Vial: 6
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	0.00	43	0		N.D.	d
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	0.00	78	0		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	9.07	83	59		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	10.26	43	133		N.D.	
56) Toluene	0.00	92	0		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	10.71	69	93		N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	0.00	43	0		N.D.	d
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	61		N.D.	
66) 1-Chlorohexane	11.71	91	58		N.D.	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

Dem 5/16/08

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430017.D
 Acq On : 30 Apr 2008 13:16
 Sample : JPL100-008
 Misc : #1 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:11 2008

Vial: 6
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	203		N.D.	
69) m,p-Xylene	0.00	106	0		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.57	105	57		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	82		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	13.03	120	72		N.D.	
81) 2-Chlorotoluene	12.97	91	55		N.D.	
82) 4-Chlorotoluene	13.05	91	109		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.63	146	63		N.D.	
88) 4-Isopropyltoluene	13.59	119	588		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	63		N.D.	
90) 1,2-Dichlorobenzene	14.04	146	53		N.D.	
91) n-Butylbenzene	13.92	91	369		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	191		N.D.	
94) Hexachlorobutadiene	15.31	225	222		N.D.	
95) Naphthalene	15.37	128	77		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	73		N.D.	

Ant 5/16/08

TIC DATA

SDG #JPL100

Volatiles Analysis

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-4-5

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL100

Run Sequence: R027627

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL100-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0428047.D

Level: (LOW/MED) _____

Date Collected: 04/24/2008

% Moisture: not dec. _____

Date Analyzed: 04/29/2008

GC Column: DB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042808\Y0428047.D Vial: 38
Acq On : 29 Apr 2008 1:23 Operator: LPM
Sample : JPL100-001 Inst : yoda
Misc : #3 5mL +IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0428047.D Y8260W.M Tue Apr 29 10:51:05 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-4-4

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-002
 Lab File ID: Y0428048.D
 Date Collected: 04/24/2008
 Date Analyzed: 04/29/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042808\Y0428048.D Vial: 39
Acq On : 29 Apr 2008 1:48 Operator: LPM
Sample : JPL100-002 Inst : yoda
Misc : #3 5mL +IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0428048.D Y8260W.M Tue Apr 29 12:05:51 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-4-3

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-003
 Lab File ID: Y0428049.D
 Date Collected: 04/24/2008
 Date Analyzed: 04/29/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042808\Y0428049.D Vial: 40
Acq On : 29 Apr 2008 2:12 Operator: LPM
Sample : JPL100-003 Inst : yoda
Misc : #8 5mL +IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0428049.D Y8260W.M Tue Apr 29 12:07:46 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-4-2

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-004
 Lab File ID: Y0428050.D
 Date Collected: 04/24/2008
 Date Analyzed: 04/29/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042808\Y0428050.D Vial: 41
Acq On : 29 Apr 2008 2:37 Operator: LPM
Sample : JPL100-004 Inst : yoda
Misc : #3 5mL +IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0428050.D Y8260W.M Tue Apr 29 12:08:50 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-4-1

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: JPL100-005
 Lab File ID: Y0428051.D
 Date Collected: 04/24/2008
 Date Analyzed: 04/29/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042808\Y0428051.D Vial: 42
Acq On : 29 Apr 2008 3:02 Operator: LPM
Sample : JPL100-005 Inst : yoda
Misc : #4 5mL +IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0428051.D Y8260W.M Wed Apr 30 09:34:32 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-03-4/24/08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL100

Run Sequence: R027627

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL100-006

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0428052.D

Level: (LOW/MED) _____

Date Collected: 04/24/2008

% Moisture: not dec. _____

Date Analyzed: 04/29/2008

GC Column: DB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042808\Y0428052.D Vial: 43
Acq On : 29 Apr 2008 3:26 Operator: LPM
Sample : JPL100-006 Inst : yoda
Misc : #2 5mL +IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0428052.D Y8260W.M Wed Apr 30 09:35:29 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DUPE-1-2Q08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL100

Run Sequence: R027627

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL100-007

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0428053.D

Level: (LOW/MED) _____

Date Collected: 04/24/2008

% Moisture: not dec. _____

Date Analyzed: 04/29/2008

GC Column: DB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042808\Y0428053.D Vial: 44
Acq On : 29 Apr 2008 3:51 Operator: LPM
Sample : JPL100-007 Inst : yoda
Misc : #4 5mL +IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0428053.D Y8260W.M Wed Apr 30 09:36:26 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-03-4/24/08

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL100-008
 Lab File ID: Y0430017.D
 Date Collected: 04/24/2008
 Date Analyzed: 04/30/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\043008\Y0430017.D Vial: 6
Acq On : 30 Apr 2008 13:16 Operator: DGA
Sample : JPL100-008 Inst : yoda
Misc : #1 5mL +IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0430017.D Y8260W.M Mon May 05 09:11:48 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B042808MVOWY2

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027627
 Lab Sample ID: B042808MVOWY2
 Lab File ID: Y0428039.D
 Date Collected: _____
 Date Analyzed: 04/28/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\042808\Y0428039.D Vial: 30
Acq On : 28 Apr 2008 22:05 Operator: LPM
Sample : B042808MVOWY2 Inst : yoda
Misc : 5mL PFW+IS/SS(MV8-45-10) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0428039.D Y8260W.M Tue Apr 29 10:34:25 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B043008MVOWY2

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL100

Run Sequence: R027729

Matrix: (SOIL/WATER) Water

Lab Sample ID: B043008MVOWY2

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0430016.D

Level: (LOW/MED) _____

Date Collected: _____

% Moisture: not dec. _____

Date Analyzed: 04/30/2008

GC Column: DB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\043008\Y0430016.D Vial: 5
Acq On : 30 Apr 2008 12:51 Operator: DGA
Sample : B043008MVOWY2 Inst : yoda
Misc : 5mL PFW+IS/SS (MV8-45-10) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0430016.D Y8260W.M Fri May 16 10:05:00 2008

SAMPLE DATA

SDG# JPL100

Semivolatiles

1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-1

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 870.0 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: _____ Decanted: (Y/N) N
 Concentrated Extract Volume: 1000 (uL)
 Injection Volume: 2.0 (uL)
 GPC Cleanup: (Y/N) N pH: <2

Contract: JPL Groundwater Monitorin
 Run Sequence: R027773
 Lab Sample ID: JPL100-005
 Lab File ID: T0501015.D
 Date Collected: 04/24/2008
 Date Extracted: 04/29/2008
 Date Analyzed: 05/01/2008
 Dilution Factor: 1.0
 Extraction: (Type) CONT

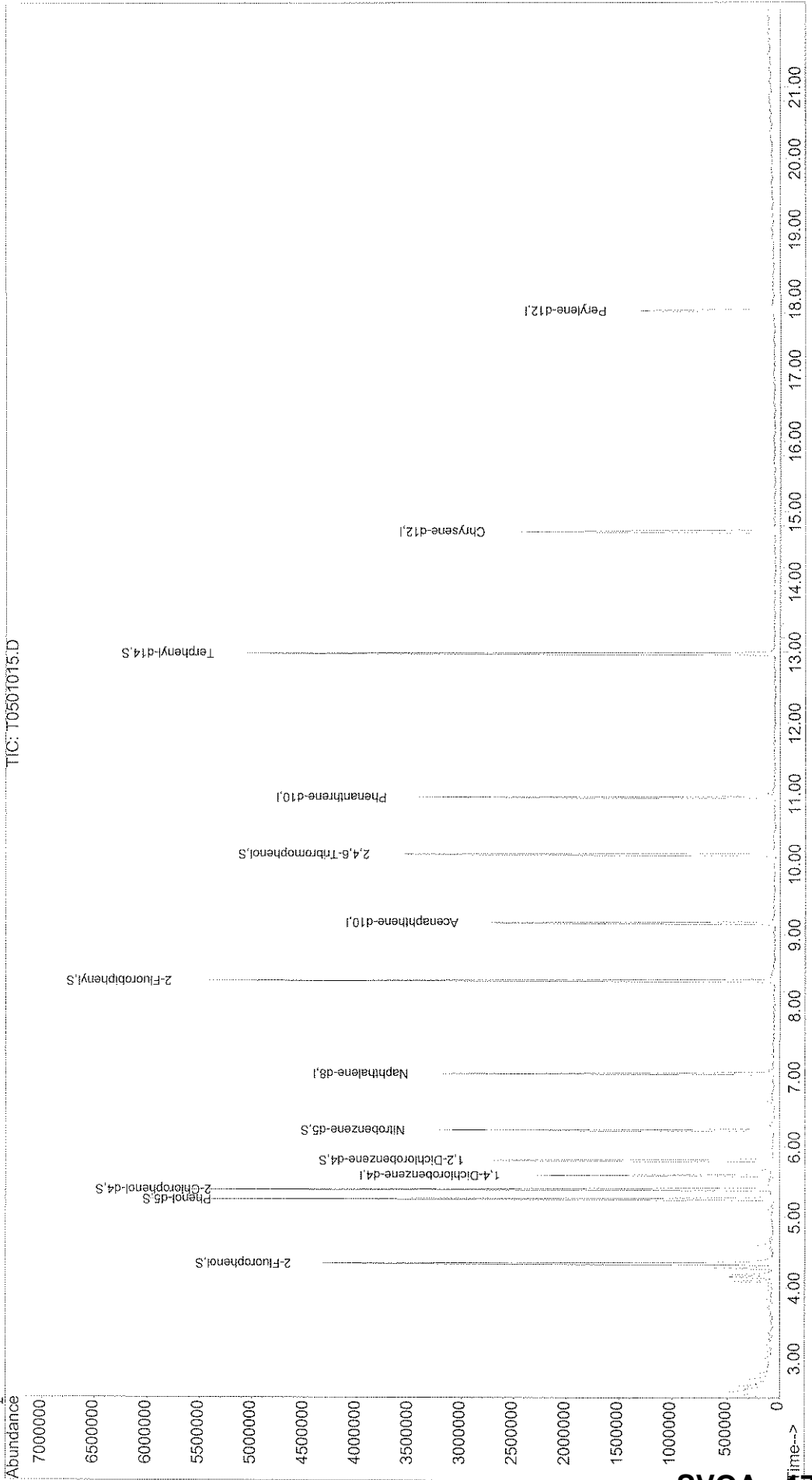
CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
123-91-1	1,4-Dioxane	1.7	U

Comments:

Quantitation Report

Data File : X:\MSABN\DONALD\050108\T0501015.D Vial: 9
Acq On : 1 May 2008 14:46 Operator: VM
Sample : JPL100-005 Inst : GC/MS Ins
Misc : T5972 870ML->1ML+IS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 2 7:35 2008 Quant Results File: DIOX.RES

Method : X:\MSABN\DONALD\QUANT\DIOX.M (RTE Integrator)
Title : 8270 SW846 BNA Calibration 5972T
Last Update : Fri May 02 07:42:48 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSABN\DONALD\050108\T0501015.D Vial: 9
 Acq On : 1 May 2008 14:46 Operator: VM
 Sample : JPL100-005 Inst : GC/MS Ins
 Misc : T5972 870ML->1ML+IS Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: May 2 7:35 2008 Quant Results File: DIOX.RES

Quant Method : X:\MSABN\DONALD\QUANT\DIOX.M (RTE Integrator)
 Title : 8270 SW846 BNA Calibration 5972T
 Last Update : Fri May 02 07:42:48 2008
 Response via : Initial Calibration
 DataAcq Meth : ABND
 IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) 1,4-Dichlorobenzene-d4	5.60	152	390365	20.00	ng/ul	0.00 NA%
7) Naphthalene-d8	7.04	136	1633486	20.00	ng/ul	-0.01 NA%
9) Acenaphthene-d10	9.17	164	799125	20.00	ng/ul	0.00 NA%
11) Phenanthrene-d10	10.95	188	1336394	20.00	ng/ul	0.00 NA%
13) Chrysene-d12	14.72	240	1174078	20.00	ng/ul	-0.01 NA%
15) Perylene-d12	17.84	264	805496	20.00	ng/ul	0.01 NA%

System Monitoring Compounds

3) 2-Fluorophenol	4.35	112	2121810	60.36	ng/ul	0.00
Spiked Amount	75.000	Range	23 - 117	Recovery	=	80.48%
4) Phenol-d5	5.26	99	2704590	61.96	ng/ul	0.00
Spiked Amount	75.000	Range	36 - 121	Recovery	=	82.61%
5) 2-Chlorophenol-d4	5.40	132	2027243	63.27	ng/ul	0.00
Spiked Amount	75.000	Range	48 - 117	Recovery	=	84.36%
6) 1,2-Dichlorobenzene-d4	5.81	152	621556	32.59	ng/ul	0.00
Spiked Amount	50.000	Range	38 - 82	Recovery	=	65.18%
8) Nitrobenzene-d5	6.24	82	1454060	37.52	ng/ul	0.00
Spiked Amount	50.000	Range	57 - 102	Recovery	=	75.04%
10) 2-Fluorobiphenyl	8.35	172	1967501	31.73	ng/ul	0.00
Spiked Amount	50.000	Range	46 - 106	Recovery	=	63.46%
12) 2,4,6-Tribromophenol	10.14	330	786667	62.60	ng/ul	0.00
Spiked Amount	75.000	Range	41 - 149	Recovery	=	83.47%
14) Terphenyl-d14	12.98	244	2231713	34.59	ng/ul	0.01
Spiked Amount	50.000	Range	79 - 136	Recovery	=	69.18%#

Target Compounds

2) 1,4-Dioxane	2.85	88	3770	N.D.		Qvalue
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(#) = qualifier out of range (m) = manual integration
 T0501015.D DIOX.M Fri May 02 07:43:22 2008

1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-1-2Q08

Lab Name: Pace Analytical Services
 SDG No.: JPL100
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 930.0 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: _____ Decanted: (Y/N) N
 Concentrated Extract Volume: 1000 (uL)
 Injection Volume: 2.0 (uL)
 GPC Cleanup: (Y/N) N pH: <2

Contract: JPL Groundwater Monitorin
 Run Sequence: R027773
 Lab Sample ID: JPL100-007
 Lab File ID: T0501016.D
 Date Collected: 04/24/2008
 Date Extracted: 04/29/2008
 Date Analyzed: 05/01/2008
 Dilution Factor: 1.0
 Extraction: (Type) CONT

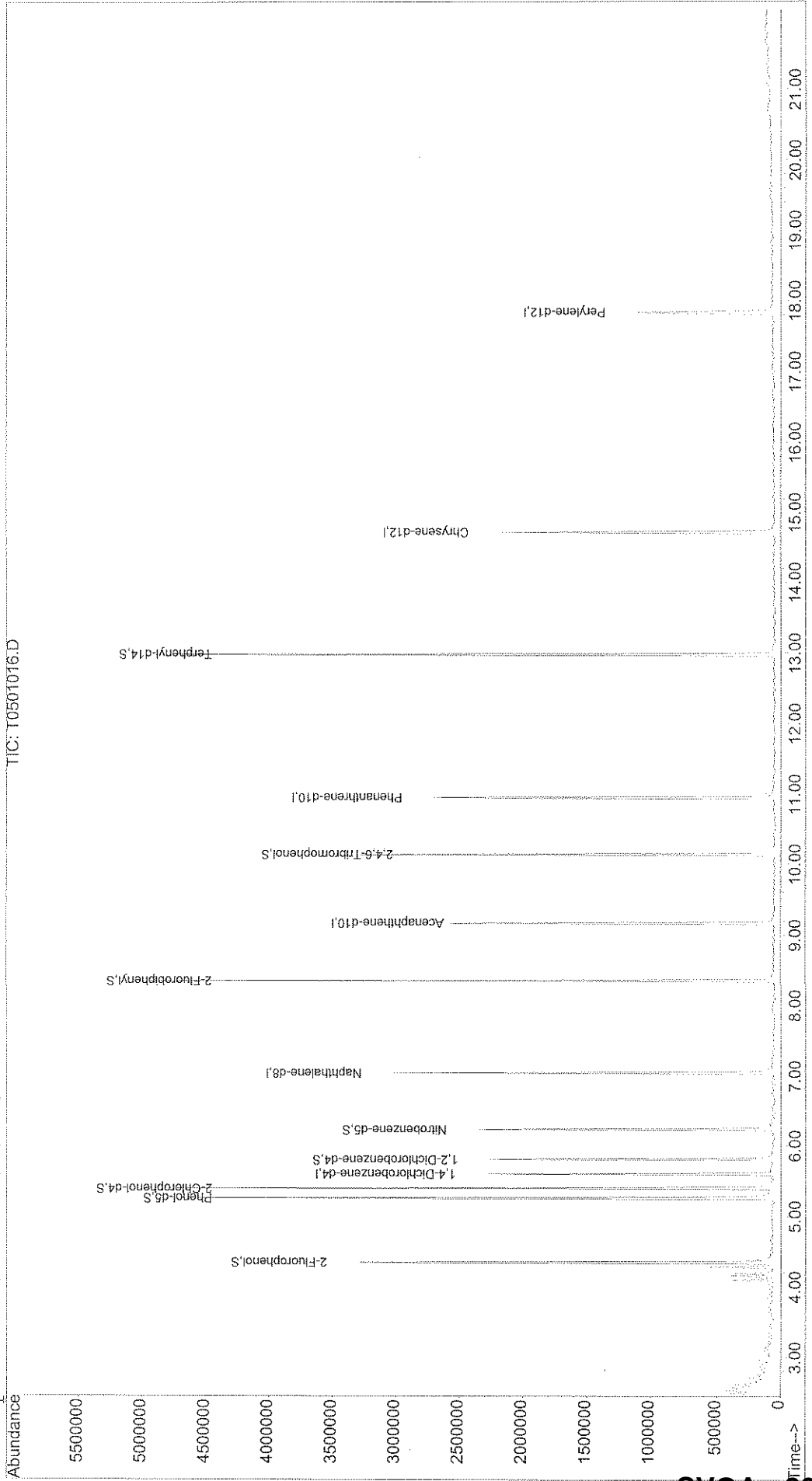
CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
123-91-1	1,4-Dioxane	1.6	U

Comments:

Quantitation Report

Data File : X:\MSABN\DONALD\050108\T0501016.D Vial: 10
Acq On : 1 May 2008 15:19 Operator: VM
Sample : JPL100-007 Inst : GC/MS Ins
Misc : T5972 930ML->1ML+IS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 2 7:35 2008 Quant Results File: DIOX.RES

Method : X:\MSABN\DONALD\QUANT\DIOX.M (RTE Integrator)
Title : 8270 SW846 BNA Calibration 5972T
Last Update : Fri May 02 07:42:48 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSABN\DONALD\050108\T0501016.D
 Acq On : 1 May 2008 15:19
 Sample : JPL100-007
 Misc : T5972 930ML->1ML+IS
 MS Integration Params: RTEINT.P
 Quant Time: May 2 7:35 2008

Vial: 10
 Operator: VM
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: DIOX.RES

Quant Method : X:\MSABN\DONALD\QUANT\DIOX.M (RTE Integrator)
 Title : 8270 SW846 BNA Calibration 5972T
 Last Update : Fri May 02 07:42:48 2008
 Response via : Initial Calibration
 DataAcq Meth : ABND

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) 1,4-Dichlorobenzene-d4	5.60	152	401809	20.00	ng/ul	0.00 NA%
7) Naphthalene-d8	7.04	136	1569087	20.00	ng/ul	-0.01 NA%
9) Acenaphthene-d10	9.17	164	761705	20.00	ng/ul	0.00 NA%
11) Phenanthrene-d10	10.95	188	1191347	20.00	ng/ul	0.00 NA%
13) Chrysene-d12	14.72	240	1029984	20.00	ng/ul	-0.01 NA%
15) Perylene-d12	17.84	264	701288	20.00	ng/ul	0.01 NA%

System Monitoring Compounds

3) 2-Fluorophenol	4.35	112	1629623	45.04	ng/ul	0.00
Spiked Amount	75.000	Range	23 - 117	Recovery	=	60.05%
4) Phenol-d5	5.26	99	2225216	49.53	ng/ul	0.00
Spiked Amount	75.000	Range	36 - 121	Recovery	=	66.04%
5) 2-Chlorophenol-d4	5.40	132	1540064	46.70	ng/ul	0.00
Spiked Amount	75.000	Range	48 - 117	Recovery	=	62.27%
6) 1,2-Dichlorobenzene-d4	5.80	152	483468	24.63	ng/ul	-0.01
Spiked Amount	50.000	Range	38 - 82	Recovery	=	49.26%
8) Nitrobenzene-d5	6.23	82	1123948	30.19	ng/ul	-0.01
Spiked Amount	50.000	Range	57 - 102	Recovery	=	60.38%
10) 2-Fluorobiphenyl	8.35	172	1627878	27.54	ng/ul	0.00
Spiked Amount	50.000	Range	46 - 106	Recovery	=	55.08%
12) 2,4,6-Tribromophenol	10.14	330	693780	61.93	ng/ul	0.00
Spiked Amount	75.000	Range	41 - 149	Recovery	=	82.57%
14) Terphenyl-d14	12.98	244	2241412	39.61	ng/ul	0.01
Spiked Amount	50.000	Range	79 - 136	Recovery	=	79.22%

Target Compounds

2) 1,4-Dioxane	2.88	88	6421	N.D.	Qvalue
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(#) = qualifier out of range (m) = manual integration

T0501016.D DIOX.M Fri May 02 07:43:36 2008

Metals Analysis Data Sheets

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-4-5

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL100

Matrix (soil/water): Water

Lab Sample ID: JPL100-001

Level (low/med): LOW

Date Received: 04/25/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028099
7440-70-2	Calcium	18800			P	R028073
7440-47-3	Chromium	2.56			M	R028099
7439-89-6	Iron	4040			P	R028415
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	12200			P	R028073
7440-09-7	Potassium	5000	U		P	R028073
7440-23-5	Sodium	40400			P	R028073

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/5/2008 15:19

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-4-4

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorinLab Code: PACESDG No.: JPL100Matrix (soil/water): WaterLab Sample ID: JPL100-002Level (low/med): LOWDate Received: 04/25/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.07			M	R028099
7440-70-2	Calcium	32000			P	R028073
7440-47-3	Chromium	1.19			M	R028099
7439-89-6	Iron	152			P	R028415
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	13700			P	R028073
7440-09-7	Potassium	5000	U		P	R028073
7440-23-5	Sodium	42700			P	R028073

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: NoComment _____

Date Printed: 6/5/2008 15:19

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-4-3

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL100

Matrix (soil/water): Water

Lab Sample ID: JPL100-003

Level (low/med): LOW

Date Received: 04/25/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028209
7440-70-2	Calcium	36400			P	R028073
7440-47-3	Chromium	1.01			M	R028209
7439-89-6	Iron	3950			P	R028415
7439-92-1	Lead	1.00	U		M	R028209
7439-95-4	Magnesium	18900			P	R028073
7440-09-7	Potassium	3110		E	P	R028073
7440-23-5	Sodium	45000			P	R028073

Color Before: Colorless Clarity Before: Clear Texture: _____

Color After: Yellow Clarity After: Clear Artifacts: No

Comment _____

Date Printed: 6/5/2008 15:19

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-4-2

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorinLab Code: PACESDG No.: JPL100Matrix (soil/water): WaterLab Sample ID: JPL100-004Level (low/med): LOWDate Received: 04/25/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028099
7440-70-2	Calcium	126000			P	R028073
7440-47-3	Chromium	1.82			M	R028099
7439-89-6	Iron	237			P	R028415
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	43100			P	R028073
7440-09-7	Potassium	5000	U		P	R028073
7440-23-5	Sodium	33900			P	R028073

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: NoComment _____

Date Printed: 6/5/2008 15:19

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-4-1

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL100

Matrix (soil/water): Water

Lab Sample ID: JPL100-005

Level (low/med): LOW

Date Received: 04/25/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028099
7440-70-2	Calcium	62900			P	R028073
7440-47-3	Chromium	1.00	U		M	R028099
7439-89-6	Iron	239			P	R028415
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	20000			P	R028073
7440-09-7	Potassium	5000	U		P	R028073
7440-23-5	Sodium	20000			P	R028073

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/5/2008 15:19

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-03-4/24/08

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorinLab Code: PACESDG No.: JPL100Matrix (soil/water): WaterLab Sample ID: JPL100-006Level (low/med): LOWDate Received: 04/25/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028099
7440-70-2	Calcium	5000	U		P	R028073
7440-47-3	Chromium	1.83			M	R028099
7439-89-6	Iron	100	U		P	R028073
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	5000	U		P	R028073
7440-09-7	Potassium	5000	U		P	R028073
7440-23-5	Sodium	5000	U		P	R028073

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: NoComment _____

Date Printed: 6/5/2008 15:19

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

DUPE-1-2Q08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL100

Matrix (soil/water): Water

Lab Sample ID: JPL100-007

Level (low/med): LOW

Date Received: 04/25/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028099
7440-70-2	Calcium	58900			P	R028073
7440-47-3	Chromium	1.00	U		M	R028099
7439-89-6	Iron	130			P	R028415
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	18600			P	R028073
7440-09-7	Potassium	5000	U		P	R028073
7440-23-5	Sodium	22800			P	R028073

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/5/2008 15:19

Miscellaneous Inorganic Data

JPL100

COVER PAGE-INORGANIC ANALYSES DATA PACKAGE

Lab Name: Pace Analytical Services, Inc.

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL100

SOW No.: _____

<u>Sample No.</u>	<u>Lab Sample ID</u>
<u>MW-4-5</u>	<u>JPL100-001</u>
<u>MW-4-4</u>	<u>JPL100-002</u>
<u>MW-4-3</u>	<u>JPL100-003</u>
<u>MW-4-2</u>	<u>JPL100-004</u>
<u>MW-4-1</u>	<u>JPL100-005</u>
<u>EB-03-4/24/08</u>	<u>JPL100-006</u>
<u>DUPE-1-2Q08</u>	<u>JPL100-007</u>

Comments:

I certify that this data package is technically complete, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: 

Name: Raul J. Nino

Date: June 03, 2008

Title: Inorganic Supervisor

Inorganic Analysis Data Sheets

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL100
Sample Number: MW-4-5 **Date/Time Collected:** 04/24/2008 08:05
Lab Sample ID: JPL100-001 **Date/Time Received:** 04/25/2008 10:40
Method/Qbatch*: E150.1/28793 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	8.1		0.10	0.10	04/25/2008	04/25/2008	R027603

Method/Qbatch*: E160.1/28844 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	190		2.0	2.0	04/29/2008	05/01/2008	R027657

Method/Qbatch*: E300.0/28783 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027594\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.20	U	0.20	0.055	04/25/2008	04/25/2008	R027594
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/25/2008	04/25/2008	R027594
Sulfate as SO4	14808-79-8	1	3.7		1.0	0.17	04/25/2008	04/25/2008	R027594
Chloride	16887-00-6	10	27		10	0.76	04/25/2008	04/25/2008	R027594
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/25/2008	04/25/2008	R027594

Method/Qbatch*: E310.1/29032 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/05/2008	05/05/2008	R027831
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	140		2.0	2.0	05/05/2008	05/05/2008	R027831

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL100
Sample Number: MW-4-5 **Date/Time Collected:** 04/24/2008 08:05
Lab Sample ID: JPL100-001 **Date/Time Received:** 04/25/2008 10:40
Method/Qbatch*: E314.0/29062 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	05/05/2008	05/06/2008	R027860

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL100
Sample Number: MW-4-4 **Date/Time Collected:** 04/24/2008 08:39
Lab Sample ID: JPL100-002 **Date/Time Received:** 04/25/2008 10:40
Method/Qbatch*: E150.1/28793 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.9		0.10	0.10	04/25/2008	04/25/2008	R027603

Method/Qbatch*: E160.1/28844 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	230		2.0	2.0	04/29/2008	05/01/2008	R027657

Method/Qbatch*: E300.0/28783 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027594\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	3.1		0.20	0.055	04/25/2008	04/25/2008	R027594
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/25/2008	04/25/2008	R027594
Sulfate as SO4	14808-79-8	1	20		1.0	0.17	04/25/2008	04/25/2008	R027594
Chloride	16887-00-6	10	31		10	0.76	04/25/2008	04/25/2008	R027594
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/25/2008	04/25/2008	R027594

Method/Qbatch*: E310.1/29032 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/05/2008	05/05/2008	R027831
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	150		2.0	2.0	05/05/2008	05/05/2008	R027831

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL100
Sample Number: MW-4-4 **Date/Time Collected:** 04/24/2008 08:39
Lab Sample ID: JPL100-002 **Date/Time Received:** 04/25/2008 10:40
Method/Qbatch*: E314.0/29062 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	05/05/2008	05/06/2008	R027860

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL100
Sample Number: MW-4-3 **Date/Time Collected:** 04/24/2008 09:15
Lab Sample ID: JPL100-003 **Date/Time Received:** 04/25/2008 10:40
Method/Qbatch*: E150.1/28793 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.8		0.10	0.10	04/25/2008	04/25/2008	R027603

Method/Qbatch*: E160.1/28901 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	230		2.0	2.0	04/30/2008	05/02/2008	R027706

Method/Qbatch*: E300.0/28783 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027594\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.20	U	0.20	0.055	04/25/2008	04/25/2008	R027594
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/25/2008	04/25/2008	R027594
Sulfate as SO4	14808-79-8	1	1.0	U	1.0	0.17	04/25/2008	04/25/2008	R027594
Chloride	16887-00-6	10	14		10	0.76	04/25/2008	04/25/2008	R027594
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/25/2008	04/25/2008	R027594

Method/Qbatch*: E310.1/29032 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/05/2008	05/05/2008	R027831
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	220		2.0	2.0	05/05/2008	05/05/2008	R027831

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL100
Sample Number: MW-4-3 **Date/Time Collected:** 04/24/2008 09:15
Lab Sample ID: JPL100-003 **Date/Time Received:** 04/25/2008 10:40
Method/Qbatch*: E314.0/29062 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	05/05/2008	05/06/2008	R027860

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL100
Sample Number: MW-4-2 **Date/Time Collected:** 04/24/2008 10:10
Lab Sample ID: JPL100-004 **Date/Time Received:** 04/25/2008 10:40
Method/Qbatch*: E150.1/28793 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	6.8		0.10	0.10	04/25/2008	04/25/2008	R027603

Method/Qbatch*: E160.1/28844 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	630		2.0	2.0	04/29/2008	05/01/2008	R027657

Method/Qbatch*: E300.0/28783 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027594\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	20	8.5		4.0	1.1	04/25/2008	04/25/2008	R027594
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/25/2008	04/25/2008	R027594
Sulfate as SO4	14808-79-8	20	140		20	3.4	04/25/2008	04/25/2008	R027594
Chloride	16887-00-6	20	110		20	1.5	04/25/2008	04/25/2008	R027594
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/25/2008	04/25/2008	R027594

Method/Qbatch*: E310.1/29032 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/05/2008	05/05/2008	R027831
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	220		2.0	2.0	05/05/2008	05/05/2008	R027831

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL100
Sample Number: MW-4-2 **Date/Time Collected:** 04/24/2008 10:10
Lab Sample ID: JPL100-004 **Date/Time Received:** 04/25/2008 10:40
Method/Qbatch*: E314.0/29232 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	05/12/2008	05/14/2008	R028009

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL100
Sample Number: MW-4-1 **Date/Time Collected:** 04/24/2008 10:48
Lab Sample ID: JPL100-005 **Date/Time Received:** 04/25/2008 10:40

Method/Qbatch*: E150.1/28793 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.2		0.10	0.10	04/25/2008	04/25/2008	R027603

Method/Qbatch*: E160.1/28844 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	290		2.0	2.0	04/29/2008	05/01/2008	R027657

Method/Qbatch*: E300.0/28783 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027594\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	1.5		0.20	0.055	04/25/2008	04/25/2008	R027594
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/25/2008	04/25/2008	R027594
Sulfate as SO4	14808-79-8	10	54		10	1.7	04/25/2008	04/25/2008	R027594
Chloride	16887-00-6	10	20		10	0.76	04/25/2008	04/25/2008	R027594
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/25/2008	04/25/2008	R027594

Method/Qbatch*: E310.1/29032 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/05/2008	05/05/2008	R027831
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	180		2.0	2.0	05/05/2008	05/05/2008	R027831

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL100
Sample Number: MW-4-1 **Date/Time Collected:** 04/24/2008 10:48
Lab Sample ID: JPL100-005 **Date/Time Received:** 04/25/2008 10:40
Method/Qbatch*: E314.0/29062 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	05/05/2008	05/06/2008	R027860

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL100
Sample Number: EB-03-4/24/08 **Date/Time Collected:** 04/24/2008 10:29
Lab Sample ID: JPL100-006 **Date/Time Received:** 04/25/2008 10:40
Method/Qbatch*: E150.1/28793 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	5.1		0.10	0.10	04/25/2008	04/25/2008	R027603

Method/Qbatch*: E160.1/28844 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	2.0	U	2.0	2.0	04/29/2008	05/01/2008	R027657

Method/Qbatch*: E300.0/28783 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027594\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.20	U	0.20	0.055	04/25/2008	04/25/2008	R027594
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/25/2008	04/25/2008	R027594
Sulfate as SO4	14808-79-8	1	1.0	U	1.0	0.17	04/25/2008	04/25/2008	R027594
Chloride	16887-00-6	1	1.0	U	1.0	0.076	04/25/2008	04/25/2008	R027594
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/25/2008	04/25/2008	R027594

Method/Qbatch*: E310.1/29032 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/05/2008	05/05/2008	R027831
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	2.0		2.0	2.0	05/05/2008	05/05/2008	R027831

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL100
Sample Number: EB-03-4/24/08 **Date/Time Collected:** 04/24/2008 10:29
Lab Sample ID: JPL100-006 **Date/Time Received:** 04/25/2008 10:40
Method/Qbatch*: E314.0/29062 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	05/05/2008	05/06/2008	R027860

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL100
Sample Number: DUPE-1-2Q08 **Date/Time Collected:** 04/24/2008 00:00
Lab Sample ID: JPL100-007 **Date/Time Received:** 04/25/2008 10:40
Method/Qbatch*: E150.1/28793 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	6.8		0.10	0.10	04/25/2008	04/25/2008	R027603

Method/Qbatch*: E160.1/28844 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	290		2.0	2.0	04/29/2008	05/01/2008	R027657

Method/Qbatch*: E300.0/28783 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027594\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	1.5		0.20	0.055	04/25/2008	04/25/2008	R027594
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/25/2008	04/25/2008	R027594
Sulfate as SO4	14808-79-8	10	55		10	1.7	04/25/2008	04/25/2008	R027594
Chloride	16887-00-6	10	20		10	0.76	04/25/2008	04/25/2008	R027594
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/25/2008	04/25/2008	R027594

Method/Qbatch*: E310.1/29032 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/05/2008	05/05/2008	R027831
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	190		2.0	2.0	05/05/2008	05/05/2008	R027831

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL100
Sample Number: DUPE-1-2Q08 **Date/Time Collected:** 04/24/2008 00:00
Lab Sample ID: JPL100-007 **Date/Time Received:** 04/25/2008 10:40
Method/Qbatch*: E314.0/29427 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	05/19/2008	05/20/2008	R028197

*QBatch=QC/Preparation Batch

PACE ANALYTICAL SERVICES, INC.

SAMPLE DATA PACKAGE

BATTELLE

SDG NO.: JPL101

June 17, 2008

Pace Analytical Services, Inc.

940 S. Harney
Seattle, WA 98108

To: Battelle
Project Name: JPL Groundwater
SDG No.: JPL101
Date of Report: June 17, 2008

SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:

Sample Receipt and Identification:

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<u>Client Sample Identification</u>	<u>Pace Sample Identification</u>	<u>Testing Analytical Request</u>
MW-21-5	JPL101-001	VOA/MET/INO
MW-21-4	JPL101-002	VOA/MET/INO
MW-21-3	JPL101-003	VOA/MET/INO
MW-21-2	JPL101-004	VOA/MET/INO
MW-21-1	JPL101-005	VOA/MET/INO
EB-04-4/28/08	JPL101-006	VOA/MET/INO
TB-04-4/28/08	JPL101-007	VOA

Analytical Request Key:

VOA = Volatiles (524.2)
MET = Metals (200.7/200.8)
INO = Chloride, Nitrate, Nitrite, Sulfate, Ortho phosphorus (300.0)
Alkalinity (310.1)
Perchlorate (314.0)
Total Dissolved Solids (160.1)
pH (150.1)

Summary of NELAC test accreditation

Determination	NELAC approved
150.1 pH	YES
160.1 Total Dissolved Solids	YES
200.7 K, Na, Mg, Ca, Fe	YES
200.8 As, Cr, Pb	YES
300.0 NO3, NO2, Cl, SO4, OPO4	YES
310.1M Carb./Bicarb. Alkalinity	YES
314.0 Perchlorate	YES
524.2 Volatile Organics + TICs (JPL Special list)	YES
TurMet for 200.7/200.8 TurMet	NO

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Seattle, WA 98108

We assert that the results reported here relate only to the samples listed in this report.

Sample Receipt Comments:

The following discrepancies were noted in association with the receipt of these samples.

One of two VOA vials for TB-04-4/28/08 contained an air bubble less than ¼ of an inch in size.

All samples submitted for pH analysis were received after the analytical holding time had expired.

GENERAL REMARKS ON ORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

Manual Integrations:

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

Holding Time Compliance:

Volatile Organic Compounds:

The holding time is 14 days calculated from the date of collection in both soil and water samples. All samples were analyzed within holding times.

Volatiles Fraction:

Continuing Calibration Verification (CCV):

In the CCV performed on 4/30/2008 the %D value for cis-1,3-dichloropropene exceeded 20% due to increased response. Because this analyte was not detected in any associated samples no further action was taken.

Quality Control Analysis:

MS/MSD analyses were not performed due to insufficient sample volume. All spiking analytes in the blank spike analysis recovered within control limits.

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Seattle, WA 98108

GENERAL REMARKS ON INORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

ICP and ICP-MS Metals:

On the first timed and dated page of each ICP and ICP-MS run, the data to be reported or rejected will be tabulated for that run.

SPECIFIC REMARKS ON INORGANIC ANALYSES:

Holding Time Compliance:

Pace calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None
Chloride	28 days	None
Sulfate	28 days	None
Nitrate	48 hours	None
Nitrite	48 hours	None
Ortho phosphorus	48 hours	None
Alkalinity	14 days	None
Total Dissolved Solids	7 days	None
pH	15 minutes	All samples

ICP Metals:

The matrix spike sample and matrix spike duplicate sample percent recoveries of calcium were outside of the established control limits of 70-130% for sample MW-21-5. Laboratory control samples were analyzed and were within control limits. No further corrective action was required. All relevant data have been flagged with an "N" on Forms I and V.

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Seattle, WA 98108

ICP-MS Metals:

No comments.

Miscellaneous Inorganics:

In the run sequence R027652 for "300.0 Anions", the matrix spike and matrix spike duplicate exceeded the established lower control limits for orthophosphate. Since all of the other quality control samples were in control, no further action was taken.

In the run sequence R027833 for "314.0 Perchlorate", the continuing calibration verification standard 3 exceeded the established upper control limits. The samples being reported within this bracketing continuing calibration verification standard were below the reporting limits, any samples that were detected above the reporting limit were re-analyzed.

In the run sequence R027833 for "314.0 Anions", the matrix spike and matrix spike duplicate exceeded the established upper control limits for perchlorate. Since all of the other quality control samples were in control, no further action was taken.

In the run sequence R028197 for "314.0 Perchlorate", the continuing calibration verification standards 1 and 2 exceeded the established upper control limits. The samples being reported within these bracketing continuing calibration verification standards were below the reporting limits, any samples that were detected above the reporting limit were re-analyzed.

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Seattle, WA 98108

ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
 - J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
 - T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
 - E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
 - P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
 - C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
 - ~ This result has been identified as non-primary based on the analyst's professional judgment.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

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INORGANIC ANALYSES:

J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.

E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.

N Spiked sample recovery not within control limits.

* Duplicate analysis not within control limits.

Z Denotes data deemed unusable by the analyst.

CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

Pace Analytical Services, Inc.

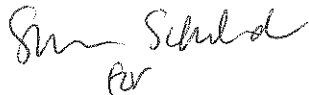
940 S. Harney
Seattle, WA 98108

RELEASE OF DATA

Pace Analytical Services, Inc. certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,



Kara Godineaux
Project Manager

6/17/08
(DATE)



Harry Romberg
Quality Assurance Officer

6/17/08
(DATE)

HOW TO CONTACT US:

All Pace Analytical Services, Inc. staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

REQUESTS FOR DUPLICATE COPIES:

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Pace will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

ATTACHMENT A

Chain-of-Custody Copies

PAGE ANALYTICAL SERVICES, INC. - SAMPLE CONFIRMATION LOG

Sample #	VTSR	Collected On	Client ID	150.1 PH	160.1 Total Dissolved Solids	200.7 K, Na, Mg, Ca, Fe	200.8 As, Cr, Pb	300.0 NO3, NO2, Cl, SO4, OPO4	310.1M Carb./Bicarb. Alkalinity	314.0 Perchlorate	524.2 Volatile Organics + TTCs (JPL Special list)
WD JPL101-001	04/29/2008 09:55 AM	04/28/2008 08:24 AM	MW-21-5	IN	IN	IN	IN	A-	IN	IN	IN
WD JPL101-002	04/29/2008 09:55 AM	04/28/2008 09:03 AM	MW-21-4	IN	IN	IN	IN	A-	IN	IN	IN
WD JPL101-003	04/29/2008 09:55 AM	04/28/2008 09:34 AM	MW-21-3	IN	IN	IN	IN	A-	IN	IN	IN
WD JPL101-004	04/29/2008 09:55 AM	04/28/2008 10:10 AM	MW-21-2	IN	IN	IN	IN	A-	IN	IN	IN
WD JPL101-005	04/29/2008 09:55 AM	04/28/2008 10:50 AM	MW-21-1	IN	IN	IN	IN	A-	IN	IN	IN
WD JPL101-006	04/29/2008 09:55 AM	04/28/2008 10:37 AM	EB-04-4/28/08	IN	IN	IN	IN	A-	IN	IN	IN
WD JPL101-007	04/29/2008 09:55 AM	04/28/2008 12:00 AM	TB-04-4/28/08								IN

Approved By:

On:

Notes:

Samples identified with a "*" client has requested QC for

LEGEND: -:Started , +:Completed , IN:Logged In , P:Preparation , A:Analysis , X:Cancelled, PL:Pre-logged

Matrices: Water=WD

FORM LTL-PM-8.0

COMPANY: BATELLE
 ADDRESS: 3990 OLD TOWN AVE., C-205
SDN DISTO, CA 94110
 ATTENTION: DAVID CAUSER
 PROJECT NAME: SOIL GR MON 2008
 PROJECT CONTACT: DAVID CAUSER
 TELEPHONE: 619-726-7311 FAX: _____
 JOB/P.O. NO.: 6481090 / 214318

CHAIN OF CUSTODY RECORD
 46070
 SDG # SP1101
 PAGE 1 OF 1

WORK ORDER ID# 15877189
 SUBMITTED AT: _____



MATRIX: WATER, SOIL OR SPECIFY

MATRIX	NO. OF CONTAINERS
UOL (624.2)	5
TOTAL CR (200.8)	5
LEAD (200.8)	5
ARSENIC (200.8)	5
COBALT (200.8)	5
CHLORINE (344.0)	5
CHLORINE (300.0, 310.1, 160.1, 151.1)	5

LAB #	SAMPLE ID / LOCATION	DATE	TIME	TESTS TO PERFORM	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1	MW-21-5	4/28/08	0834	5	
2	MW-21-4		0903	5	
3	MW-21-3		0934	5	
4	MW-21-2		1010	5	LEVEL III QC
5	MW-21-1		1050	5	CONCURRENT BLANK
6	EW 04-4 / 28/08		1037	5	CONCURRENT BLANK
7	TR-04-4 / 28/08			2	TRIP BLANK

A. A standard turnaround time is assumed unless otherwise marked.
 B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

INSTRUCTIONS:
 1. USE ONE LINE PER SAMPLE.
 2. BE SPECIFIC IN TEST REQUESTS.
 3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.

RELINQUISHED BY (SIGN AND PRINT): BATELLE
 NAME: BATELLE
 ATTN: DAVID CAUSER
 ADDRESS: 505 HILL AVE.
 CITY, STATE, ZIP: COLUMBUS, OH 43201

RECEIVED BY (SIGN AND PRINT): RACHEL FRANK
 DATE/TIME: 4/29/08 9:55

* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL

TURNAROUND REQUEST:
 STD. 10-14 WORKING DAYS
 * 24-48 HRS. (100% SUR)
 * 72 HRS. (75% SUR)
 * 5 DAYS (60% SUR)
 OTHER: _____
 TEMP: _____
 CUSTODY SEAL: Y N N/A

Supplemental Sample Receipt Log
Pace Analytical Services, Inc.

SDG: JPL101

Cooler: AAD818

Temperatures: 1.1

COC #: 46070

Sample	Bottle #	Bottle Description	pH	Bubbles
JPL101-001	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL101-002	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL101-003	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL101-004	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL101-005	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL101-006	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL101-007	0001	40 ml OTWS, clear glass, HCl	N/C	< 1/4

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2

Base Preserved pH pH must be greater than 12

NC Not Checked for pH

Supplemental Sample Receipt Log
Pace Analytical Services, Inc.

SDG: JPL101
 Cooler: AAD818
 Temperatures: 1.1
 COC #: 46070

Sample	Bottle #	Bottle Description	pH	Bubbles
	0002	40 ml OTWS, clear glass, HCl	N/C	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2

Base Preserved pH pH must be greater than 12

NC Not Checked for pH

Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

ATTACHMENT B

Index

Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

Battelle

SDG No.: JPL101

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Completed and checked by: Judy Echlund Date: 6/17/08

QC Summary

SDG #JPL101

Volatiles Analysis

2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL101

Run Sequence: R027729

Level: (LOW/MED) NONE

CLIENT SAMPLE NUMBER	SMC1 (DCA) #	SMC2 (BFB) #	SMC3 (TOL) #	SMC4 () #	TOT OUT
(JPL101-006) EB-04-4/28/08	105	102	94		0
(JPL101-005) MW-21-1	105	98	92		0
(JPL101-004) MW-21-2	104	98	93		0
(JPL101-003) MW-21-3	102	99	91		0
(JPL101-002) MW-21-4	101	102	95		0
(JPL101-001) MW-21-5	105	97	93		0
(JPL101-007) TB-04-4/28/08	102	102	92		0
(B043008MVOWY2) B043008MVOWY2	104	101	94		0
(S043008MVOWY1) S043008MVOWY1	97	103	98		0

	QC LIMITS
SMC1 (DCA) = 1,2-Dichloroethane-d4	60-140
SMC2 (BFB) = 4-Bromofluorobenzene	60-140
SMC3 (TOL) = Toluene-d8	60-140
SMC4 () =	

Column to be used to flag recovery values
* Values outside of contract required QC limits

3B
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin

BS Run Sequence: R027729 SDG No.: JPL101

BS Lab Sample ID: S043008MVOWY1

Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
Dichlorodifluoromethane	50.0	54.5	109		60-140
Chloromethane	50.0	48.64	97		60-140
Vinyl chloride	50.0	53.04	106		60-140
Bromomethane	50.0	57.22	114		60-140
Chloroethane	50.0	55.99	112		60-140
Trichlorofluoromethane	50.0	63.39	127		60-140
1,1-Dichloroethene	50.0	51.85	104		60-140
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.18	102		60-140
Methylene chloride	50.0	50.83	102		60-140
Methyl tert-butyl ether	50.0	53.46	107		60-140
trans-1,2-Dichloroethene	50.0	49.84	100		60-140
1,1-Dichloroethane	50.0	47.6	95		60-140
2,2-Dichloropropane	50.0	59.77	120		60-140
cis-1,2-Dichloroethene	50.0	51.61	103		60-140
2-Butanone	50.0	49.85	100		60-140
Bromochloromethane	50.0	51.89	104		60-140
Chloroform	50.0	48.61	97		60-140
1,1,1-Trichloroethane	50.0	53.26	107		60-140
Carbon tetrachloride	50.0	55.55	111		60-140
1,1-Dichloropropene	50.0	56.35	113		60-140
Benzene	50.0	50.48	101		60-140
1,2-Dichloroethane	50.0	47.95	96		60-140
Trichloroethene	50.0	53.01	106		60-140
1,2-Dichloropropane	50.0	49.49	99		60-140
Dibromomethane	50.0	47.95	96		60-140
Bromodichloromethane	50.0	53.05	106		60-140
cis-1,3-Dichloropropene	50.0	66.75	134		60-140
4-Methyl-2-pentanone	50.0	51.87	104		60-140
Toluene	50.0	48.06	96		60-140
trans-1,3-Dichloropropene	50.0	47.81	96		60-140
1,1,2-Trichloroethane	50.0	42.65	85		60-140
Tetrachloroethene	50.0	48.28	97		60-140
1,3-Dichloropropane	50.0	45.52	91		60-140
Dibromochloromethane	50.0	49.75	100		60-140

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

Spike Recovery: 0 out of 63 outside limits

COMMENTS:

Date Printed: 5/16/2008 9:32

3B
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 BS Run Sequence: R027729 SDG No.: JPL101
 BS Lab Sample ID: S043008MVOWY1
 Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
1,2-Dibromoethane	50.0	45.68	91		60-140
Chlorobenzene	50.0	45.15	90		60-140
Ethylbenzene	50.0	46.92	94		60-140
1,1,1,2-Tetrachloroethane	50.0	46.31	93		60-140
m,p-Xylene	100	96.62	97		60-140
o-Xylene	50.0	47.07	94		60-140
Styrene	50.0	47.94	96		60-140
Bromoform	50.0	44.38	89		60-140
Isopropylbenzene	50.0	50.31	101		60-140
1,1,2,2-Tetrachloroethane	50.0	39.35	79		60-140
n-Propylbenzene	50.0	47.64	95		60-140
Bromobenzene	50.0	45.33	91		60-140
1,2,3-Trichloropropane	50.0	38.28	77		60-140
2-Chlorotoluene	50.0	44.91	90		60-140
1,3,5-Trimethylbenzene	50.0	44.84	90		60-140
4-Chlorotoluene	50.0	44.58	89		60-140
tert-Butylbenzene	50.0	45.12	90		60-140
1,2,4-Trimethylbenzene	50.0	44.77	90		60-140
sec-Butylbenzene	50.0	44.44	89		60-140
4-Isopropyltoluene	50.0	48.41	97		60-140
1,3-Dichlorobenzene	50.0	41.84	84		60-140
1,4-Dichlorobenzene	50.0	40.38	81		60-140
n-Butylbenzene	50.0	44.17	88		60-140
1,2-Dichlorobenzene	50.0	41.19	82		60-140
1,2-Dibromo-3-chloropropane	50.0	36.91	74		60-140
1,2,4-Trichlorobenzene	50.0	44.75	90		60-140
Hexachlorobutadiene	50.0	43.67	87		60-140
Naphthalene	50.0	43.81	88		60-140
1,2,3-Trichlorobenzene	50.0	41.66	83		60-140

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

Spike Recovery: 0 out of 63 outside limits

COMMENTS:

Date Printed: 5/16/2008 9:32

4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B043008MVOWY2

Lab Name Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL101

Lab File ID: Y0430016.D

Lab Sample ID: B043008MVOWY2

Date Analyzed: 04/30/2008

Time Analyzed: 12:51

GC Column: DB-624 20m ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: 5973Y

Matrix: Water

	CLIENT SAMPLE NO.	LAB SAMPLE ID.	LAB FILE ID.	DATE ANALYZED	TIME ANALYZED	RUN SEQUENCE
01	S043008MVOWY1	S043008MVOWY1	Y0430008.D	04/30/2008	08:55	R027729
02	TB-04-4/28/08	JPL101-007	Y0430018.D	04/30/2008	13:41	R027729
03	MW-21-5	JPL101-001	Y0430021.D	04/30/2008	14:54	R027729
04	MW-21-4	JPL101-002	Y0430022.D	04/30/2008	15:19	R027729
05	MW-21-3	JPL101-003	Y0430023.D	04/30/2008	15:43	R027729
06	MW-21-2	JPL101-004	Y0430024.D	04/30/2008	16:08	R027729
07	MW-21-1	JPL101-005	Y0430025.D	04/30/2008	16:32	R027729
08	EB-04-4/28/08	JPL101-006	Y0430026.D	04/30/2008	16:57	R027729
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COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

BFBY5

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 Run Sequence: CAL1310 SDG No.: JPL101
 Lab File ID: Y0414036.D BFB Injection Date: 04/14/2008
 Instrument ID: 5973Y BFB Injection Time: 21:43
 GC Column DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	17.8
75	30% to 60% of mass 95	48.1
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	6.8
173	less than 2% of mass 174	0()1
174	greater than 50% of mass 95	99.4
175	5% to 9% of mass 17	7.2()1
176	greater than 95%, but less than 101% of mass 174	95.4()1
177	5% to 9% of mass 176	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 SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0.3	VSTD0.3	Y0414037.D	04/14/2008	22:08
02	VSTD0.5	VSTD0.5	Y0414038.D	04/14/2008	22:33
03	VSTD001	VSTD001	Y0414039.D	04/14/2008	22:58
04	VSTD005	VSTD005	Y0414040.D	04/14/2008	23:22
05	VSTD010	VSTD010	Y0414041.D	04/14/2008	23:47
06	VSTD050	VSTD050	Y0414042.D	04/15/2008	00:12
07	VSTD100	VSTD100	Y0414043.D	04/15/2008	00:36
08	VSTD200	VSTD200	Y0414044.D	04/15/2008	01:01
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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

CLIENT SAMPLE NO.

BFBY1

Lab Name: Pace Analytical Services

Contract: _____

Run Sequence: R027335

SDG No.: ~~NE3D13~~ JPL101 Sept 5/10/08

Lab File ID: Y0415011.D

BFB Injection Date: 04/15/2008

Instrument ID: 5973Y

BFB Injection Time: 09:55

GC Column: DB-624 20m

ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	18
75	30% to 60% of mass 95	48.6
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	6.6
173	less than 2% of mass 174	0()1
174	greater than 50% of mass 95	94.8
175	5% to 9% of mass 17	8.3()1
176	greater than 95%, but less than 101% of mass 174	99.1()1
177	5% to 9% of mass 176	6.1()2

1 - Value is %mass 174

2 - Value is %mass 176

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	S041508MVOWY2	S041508MVOWY2	Y0415015.D	04/15/2008	11:39
02					
03					
04					
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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

VSTD050Y1/BFBY2

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 Run Sequence: R027729 SDG No.: JPL101
 Lab File ID: Y0430007.D BFB Injection Date: 04/30/2008
 Instrument ID: 5973Y BFB Injection Time: 08:27
 GC Column DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	17.7
75	30% to 60% of mass 95	45.5
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	6.8
173	less than 2% of mass 174	0()1
174	greater than 50% of mass 95	105.4
175	5% to 9% of mass 17	7.2()1
176	greater than 95%, but less than 101% of mass 174	97.7()1
177	5% to 9% of mass 176	6.6()2

1 - Value is %mass 174

2 - Value is %mass 176

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050Y1	VSTD050Y1	Y0430007.D	04/30/2008	08:27
02	S043008MVOWY1	S043008MVOWY1	Y0430008.D	04/30/2008	08:55
03	B043008MVOWY2	B043008MVOWY2	Y0430016.D	04/30/2008	12:51
04	TB-04-4/28/08	JPL101-007	Y0430018.D	04/30/2008	13:41
05	MW-21-5	JPL101-001	Y0430021.D	04/30/2008	14:54
06	MW-21-4	JPL101-002	Y0430022.D	04/30/2008	15:19
07	MW-21-3	JPL101-003	Y0430023.D	04/30/2008	15:43
08	MW-21-2	JPL101-004	Y0430024.D	04/30/2008	16:08
09	MW-21-1	JPL101-005	Y0430025.D	04/30/2008	16:32
10	EB-04-4/28/08	JPL101-006	Y0430026.D	04/30/2008	16:57
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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitoring
 Run Sequence: R027729 SDG No.: JPL101
 Client Sample No.(VSTD050##): VSTD050Y1 Date Analyzed: 04/30/2008
 Lab File ID (Standard): Y0430007.D Time Analyzed: 08:27
 Instrument ID: 5973Y Heated Purge: (Y/N) N
 GC Column: DB-624 20m ID: 0.18 (mm)

	IS1 (FBZ) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	412454	8.23	237075	11.68	322468	13.61
UPPER LIMIT	824908	8.28	474150	11.73	644936	13.66
LOWER LIMIT	206227	8.18	118537.5	11.63	161234	13.56
CLIENT SAMPLE NO.						
01 S043008MVOWY1	401383	8.23	218525	11.68	308870	13.61
02 B043008MVOWY2	367314	8.23	192188	11.68	287499	13.61
03 TB-04-4/28/08	388463	8.23	217587	11.68	302682	13.61
04 MW-21-5	358858	8.23	191878	11.68	284483	13.61
05 MW-21-4	407176	8.23	220822	11.68	309805	13.61
06 MW-21-3	372273	8.23	206856	11.68	302591	13.61
07 MW-21-2	368937	8.23	205347	11.68	293604	13.61
08 MW-21-1	366727	8.23	195002	11.68	290441	13.61
09 EB-04-4/28/08	379500	8.23	212590	11.68	298369	13.61
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IS1 (FBZ) = Fluorobenzene

IS2 (CBZ) = Chlorobenzene-d5

IS3 (DCB) = 1,4-Dichlorobenzene-d4

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

SAMPLE DATA

SDG # JPL101

Volatiles Analysis

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-5

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-001
 Lab File ID: Y0430021.D
 Date Collected: 04/28/2008
 Date/Time Analyzed: 04/30/2008 14:54
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.86	
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	4.0	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-5

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-001
 Lab File ID: Y0430021.D
 Date Collected: 04/28/2008
 Date/Time Analyzed: 04/30/2008 14:54
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	1.8	
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-5

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-001
 Lab File ID: Y0430021.D
 Date Collected: 04/28/2008
 Date/Time Analyzed: 04/30/2008 14:54
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

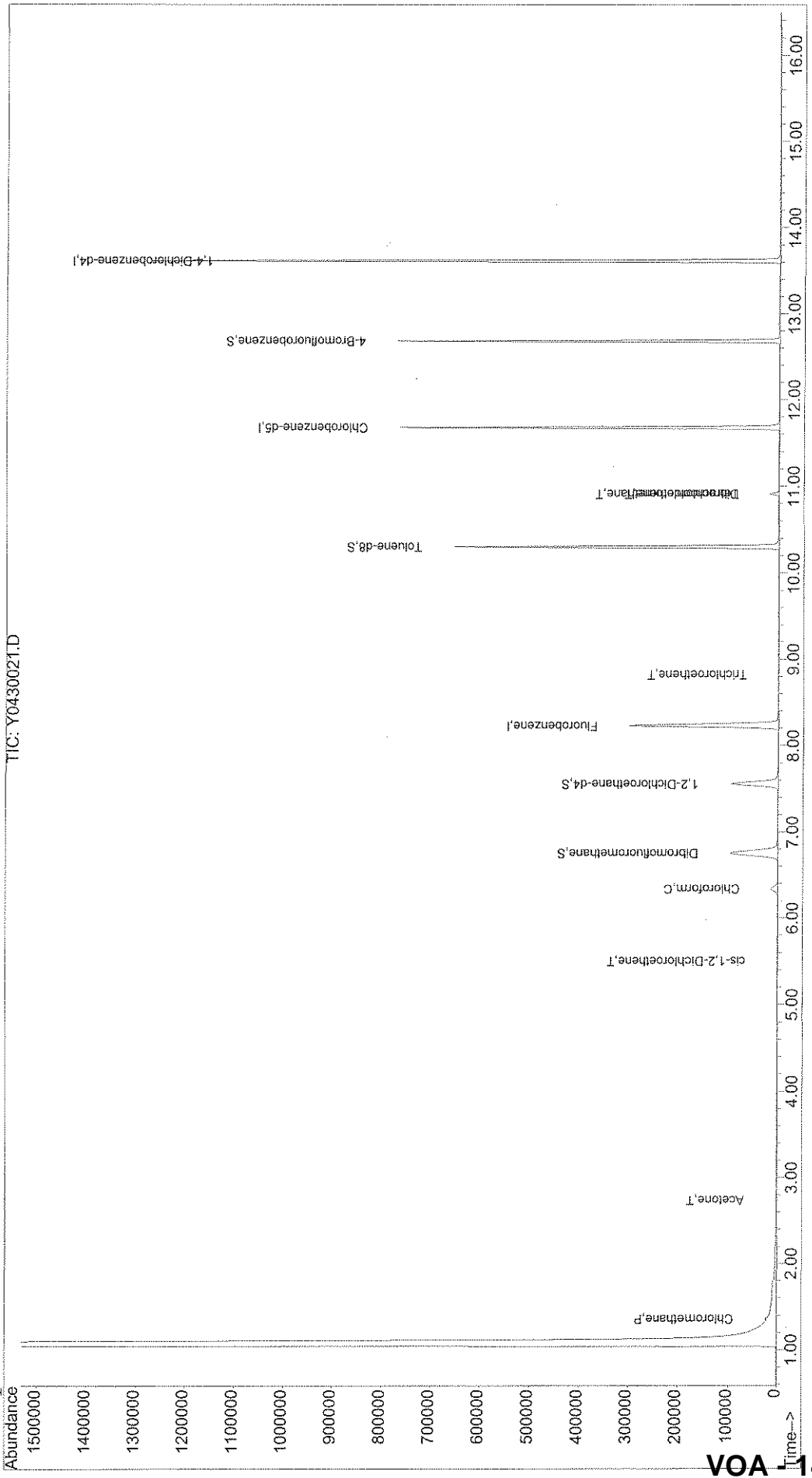
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430021.D
Acq On : 30 Apr 2008 14:54
Sample : JPL101-001
Misc : #3 5mL +IS/SS(524)
MS Integration Params: rteint.p
Quant Time: May 5 9:32 2008
Vial: 10
Operator: DGA
Inst : Yoda
Multiplr: 1.00
Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



VOA 14

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430021.D
 Acq On : 30 Apr 2008 14:54
 Sample : JPL101-001
 Misc : #3 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:32 2008

Vial: 10
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	358858	50.00	ug/l	0.00 70.28%
54) Chlorobenzene-d5	11.68	82	191878	50.00	ug/l	0.00 78.45%
74) 1,4-Dichlorobenzene-d4	13.61	152	284483	50.00	ug/l	0.00 81.17%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	129893	55.33	ug/l	0.00
Spiked Amount	50.000	Range	85 - 115	Recovery	=	110.66%
40) 1,2-Dichloroethane-d4	7.56	65	117545	52.42	ug/l	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	104.84%
55) Toluene-d8	10.30	98	387922	46.69	ug/l	0.00
Spiked Amount	50.000	Range	85 - 120	Recovery	=	93.38%
76) 4-Bromofluorobenzene	12.68	95	178991	48.40	ug/l	0.00
Spiked Amount	50.000	Range	75 - 120	Recovery	=	96.80%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	3756	0.86	ug/l	95
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.75	43	2885	3.38	ug/l	99
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	481	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	3.62	96	119	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	3.69	73	407	N.D.		

(#) = qualifier out of range (m) = manual integration
 Y0430021.D Y8260W.M Mon May 05 09:32:18 2008

J. S. Taylor
 VOA-15 Page 1

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430021.D
 Acq On : 30 Apr 2008 14:54
 Sample : JPL101-001
 Misc : #3 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:32 2008

Vial: 10
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	4.35	63	457	N.D.		
24) Vinyl acetate	0.00	43	0	N.D.		
25) Chloroprene	0.00	53	0	N.D.		
26) Isopropyl ether	0.00	45	0	N.D.		
27) Ethyl-t-butyl ether	0.00	59	0	N.D.		
28) 2,2-Dichloropropane	0.00	77	0	N.D.		
29) cis-1,2-Dichloroethene	5.50	96	681	0.22	ug/l	94
30) 2-Butanone	0.00	43	0	N.D.	d	
31) Propionitrile	0.00	54	0	N.D.		
32) Bromochloromethane	0.00	128	0	N.D.		
33) Methacrylonitrile	6.15	41	62	N.D.		
34) Chloroform	6.35	83	21801	4.04	ug/l	97
35) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
37) Cyclohexane	0.00	56	0	N.D.		
38) Carbon Tetrachloride	0.00	117	0	N.D.		
39) 1,1-Dichloropropene	0.00	75	0	N.D.		
41) Benzene	7.64	78	54	N.D.		
42) 1,2-Dichloroethane	0.00	62	0	N.D.		
43) Isobutanol	0.00	43	0	N.D.		
44) t-amyl methyl ether	0.00	73	0	N.D.		
45) Trichloroethene	8.82	130	674	0.23	ug/l #	69
46) Methylcyclohexane	8.99	83	73	N.D.		
47) 1,2-Dichloropropane	0.00	63	0	N.D.		
48) Dibromomethane	0.00	93	0	N.D.		
49) Methyl methacrylate	0.00	41	0	N.D.		
50) Bromodichloromethane	0.00	83	0	N.D.		
51) 2-Chloroethyl vinyl ether	0.00	63	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	43	0	N.D.	d	
56) Toluene	10.33	92	70	N.D.		
57) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
58) Ethyl methacrylate	0.00	69	0	N.D.		
59) 1,1,2-Trichloroethane	10.67	97	84	N.D.		
60) Tetrachloroethene	10.91	166	5780	1.84	ug/l	88
61) 1,3-Dichloropropane	0.00	76	0	N.D.		
62) 2-Hexanone	11.23	43	164	N.D.		
63) Dibromochloromethane	10.91	129	3388	1.49	ug/l #	10
64) 1,2-Dibromoethane	0.00	107	0	N.D.		
65) Chlorobenzene	11.69	112	74	N.D.		
66) 1-Chlorohexane	0.00	91	0	N.D.	d	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

1/2 PRL
5/10/08

1/2 PRL
69 5/10/08

8 5/20/08

Quantitation Report

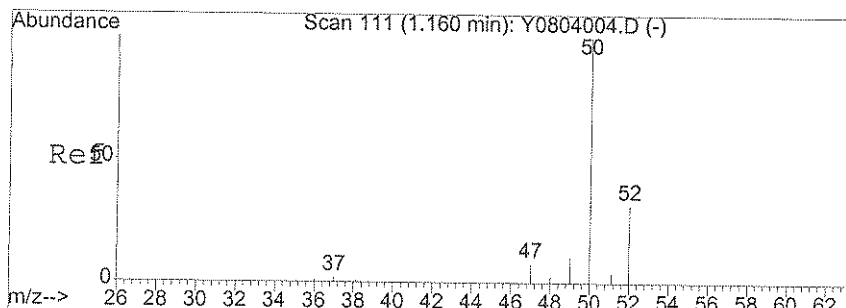
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 Acq On : 30 Apr 2008 14:54
 Sample : JPL101-001
 Misc : #3 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:32 2008

Vial: 10
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

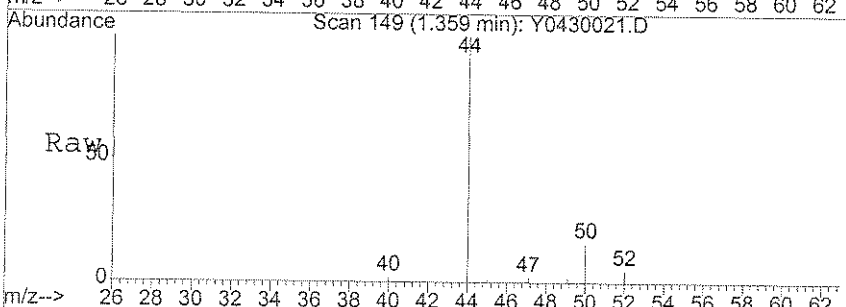
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.80	91	70		N.D.	
69) m,p-Xylene	0.00	106	0		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	12.25	104	124		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.55	105	55		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	0.00	156	0		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.69	83	57		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.89	91	175		N.D.	
82) 4-Chlorotoluene	13.04	91	71		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	145		N.D.	
88) 4-Isopropyltoluene	13.58	119	58		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	262		N.D.	
90) 1,2-Dichlorobenzene	13.93	146	153		N.D.	
91) n-Butylbenzene	13.91	91	177		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	87		N.D.	
94) Hexachlorobutadiene	0.00	225	0		N.D.	
95) Naphthalene	15.36	128	240		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	346		N.D.	

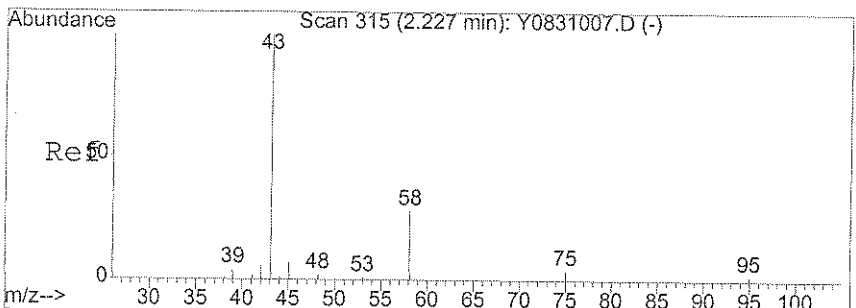
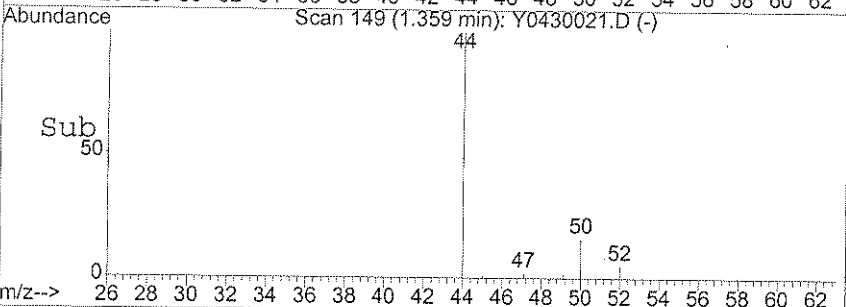
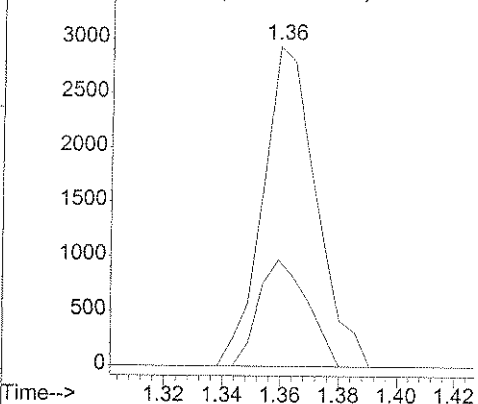


#3
 Chloromethane
 Concen: 0.86 ug/l
 RT: 1.36 min Scan# 149
 Delta R.T. -0.01 min
 Lab File: Y0430021.D
 Acq: 30 Apr 2008 14:54

Tgt Ion: 50 Resp: 3756
 Ion Ratio Lower Upper
 50 100
 52 30.4 13.0 53.0

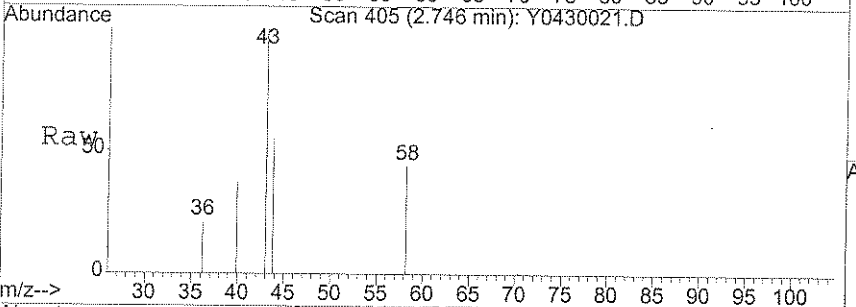


Abundance Ion 50.00 (49.70 to 50.70): Y0430021.D
 Ion 52.00 (51.70 to 52.70): Y0430021.D

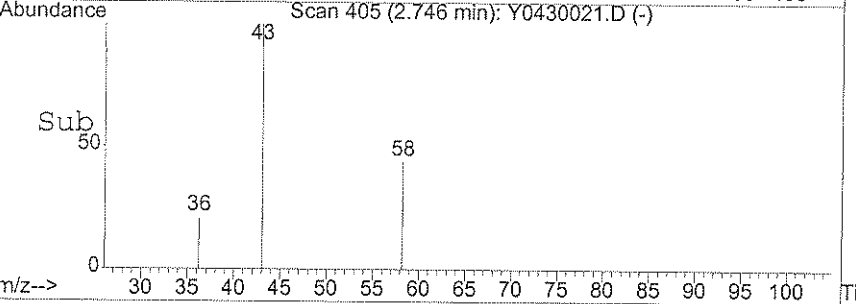
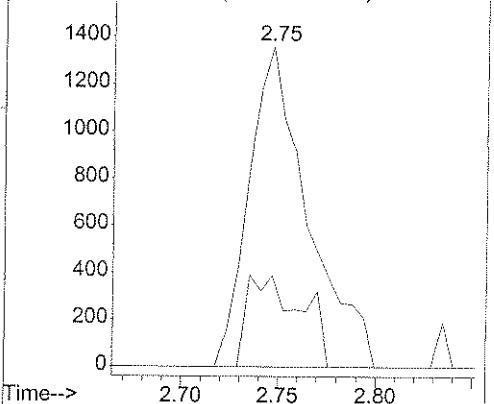


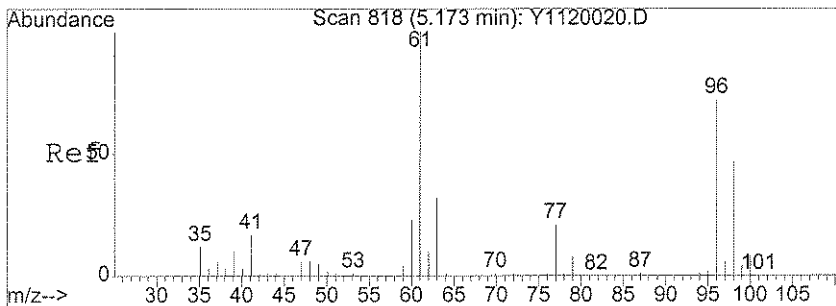
#11
 Acetone
 Concen: 3.38 ug/l
 RT: 2.75 min Scan# 405
 Delta R.T. 0.01 min
 Lab File: Y0430021.D
 Acq: 30 Apr 2008 14:54

Tgt Ion: 43 Resp: 2885
 Ion Ratio Lower Upper
 43 100
 58 26.1 21.3 31.9



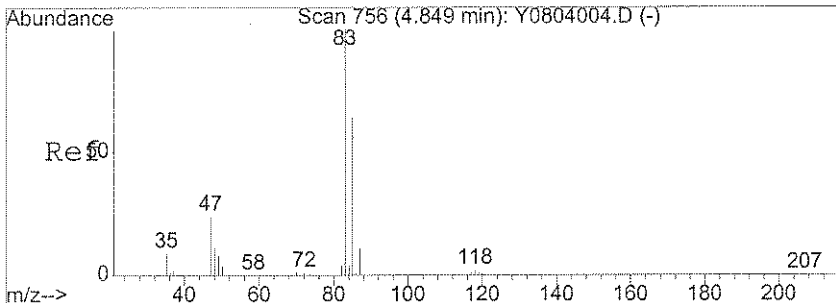
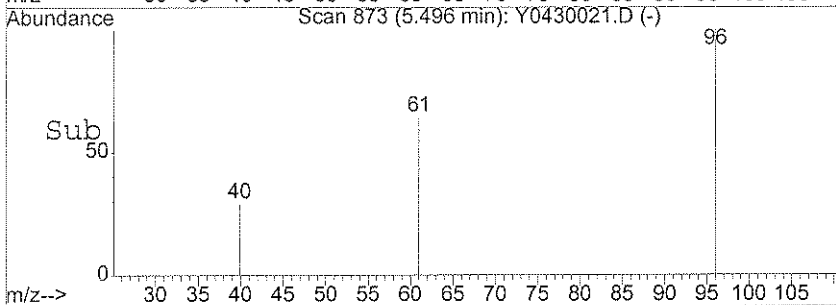
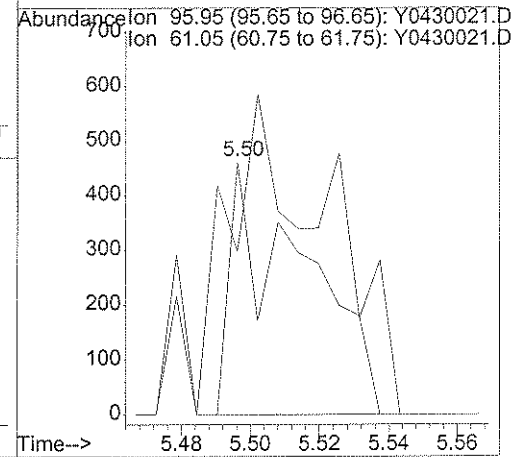
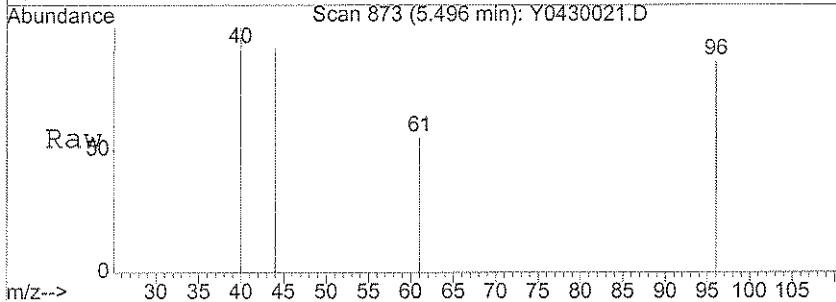
Abundance Ion 43.15 (42.85 to 43.85): Y0430021.D
 Ion 58.05 (57.75 to 58.75): Y0430021.D





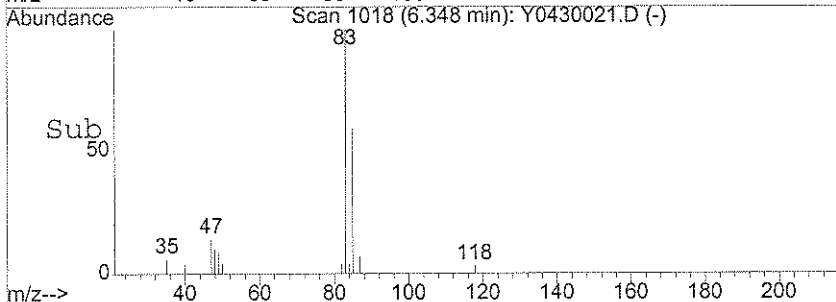
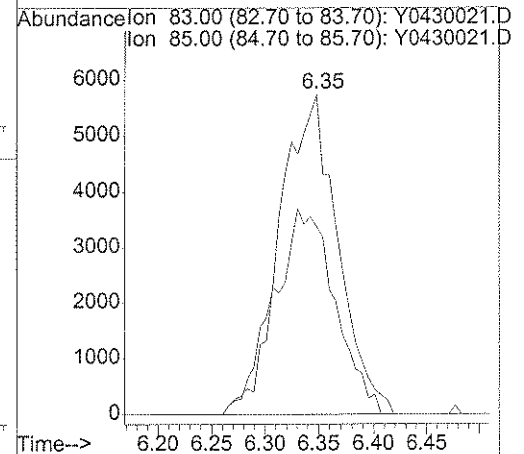
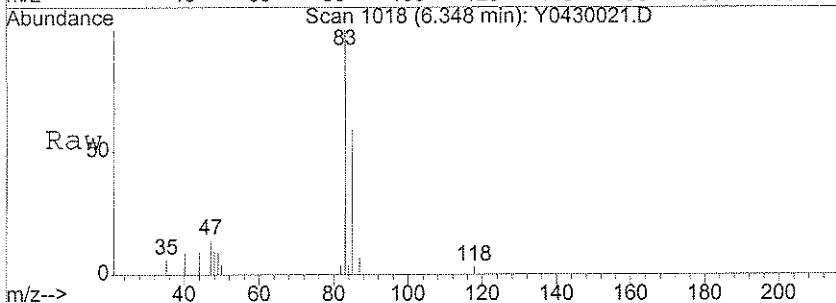
#29
 cis-1,2-Dichloroethene
 Concen: 0.22 ug/l
 RT: 5.50 min Scan# 873
 Delta R.T. -0.01 min
 Lab File: Y0430021.D
 Acq: 30 Apr 2008 14:54

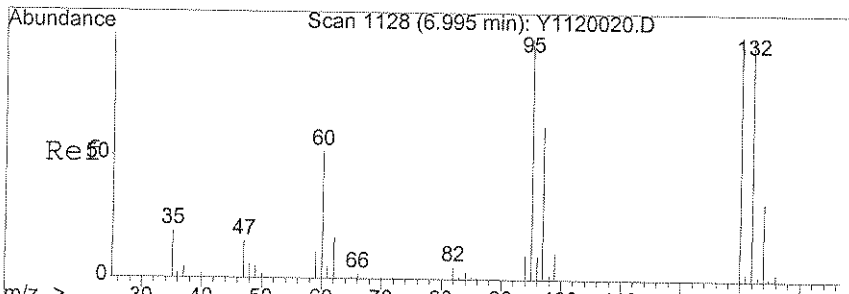
Tgt Ion: 96 Resp: 681
 Ion Ratio Lower Upper
 96 100
 61 115.4 98.1 147.1



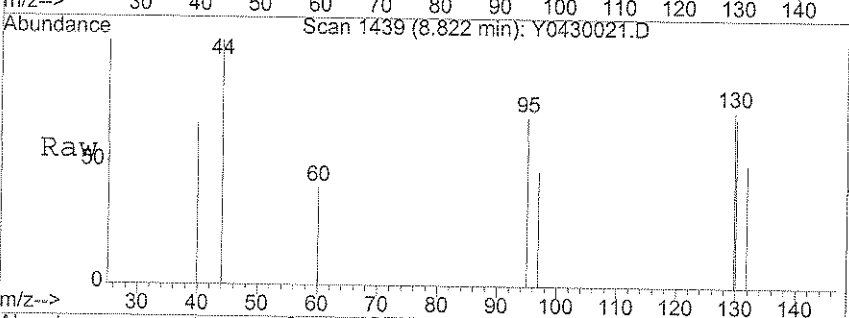
#34
 Chloroform
 Concen: 4.04 ug/l
 RT: 6.35 min Scan# 1018
 Delta R.T. 0.01 min
 Lab File: Y0430021.D
 Acq: 30 Apr 2008 14:54

Tgt Ion: 83 Resp: 21801
 Ion Ratio Lower Upper
 83 100
 85 65.4 43.3 83.3

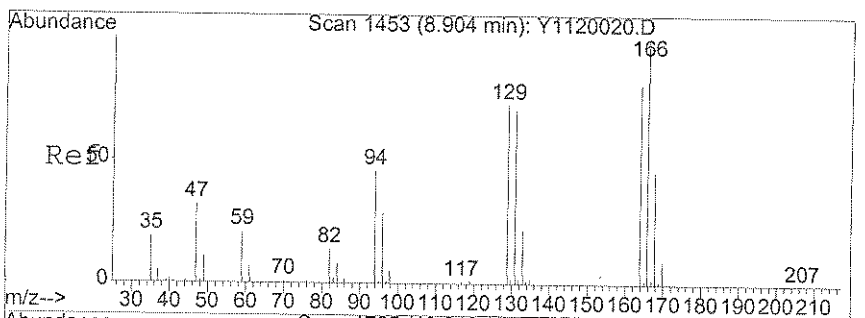
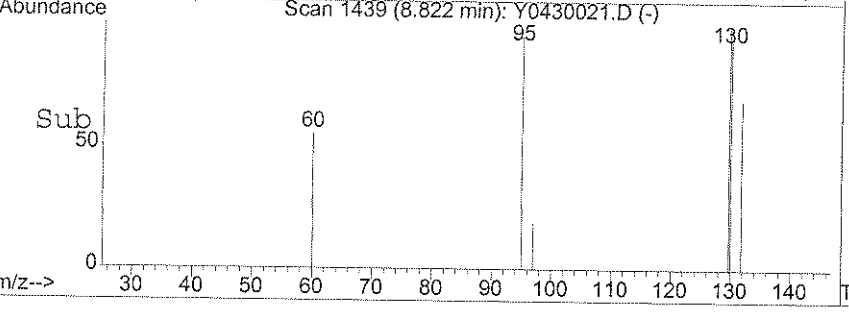
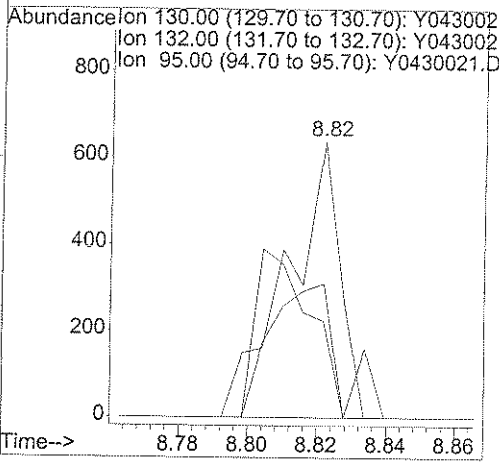




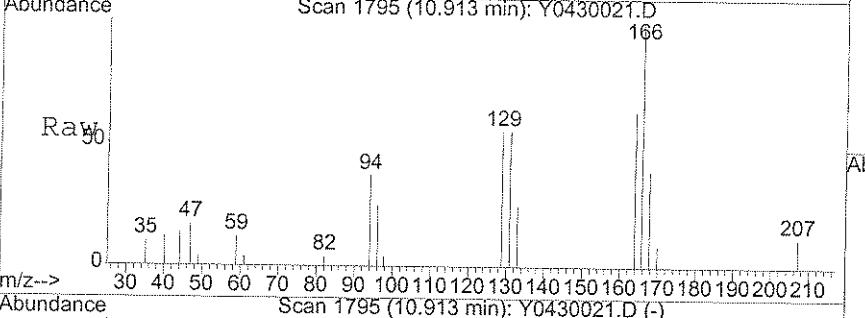
#45
 Trichloroethene
 Concen: 0.23 ug/l
 RT: 8.82 min Scan# 1439
 Delta R.T. 0.01 min
 Lab File: Y0430021.D
 Acq: 30 Apr 2008 14:54



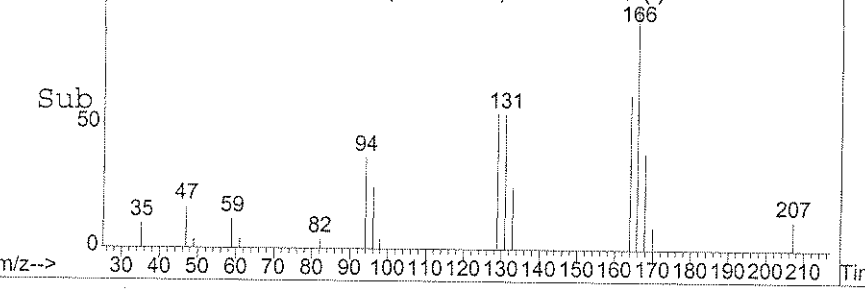
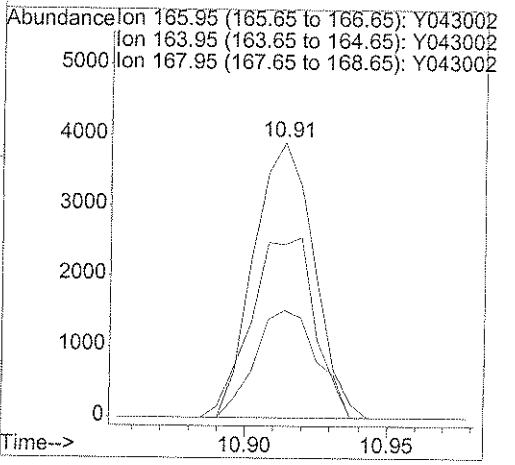
Tgt Ion	Resp	Lower	Upper
130	100		
132	71.8	75.0	115.0#
95	54.2	69.4	109.4#



#60
 Tetrachloroethene
 Concen: 1.84 ug/l
 RT: 10.91 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: Y0430021.D
 Acq: 30 Apr 2008 14:54



Tgt Ion	Ratio	Lower	Upper
166	100		
164	69.3	63.3	94.9
168	40.3	39.6	59.4



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-4

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-002
 Lab File ID: Y0430022.D
 Date Collected: 04/28/2008
 Date/Time Analyzed: 04/30/2008 15:19
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.37	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.35	J
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	4.9	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-4

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-002
 Lab File ID: Y0430022.D
 Date Collected: 04/28/2008
 Date/Time Analyzed: 04/30/2008 15:19
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	1.4	
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-4

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-002
 Lab File ID: Y0430022.D
 Date Collected: 04/28/2008
 Date/Time Analyzed: 04/30/2008 15:19
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

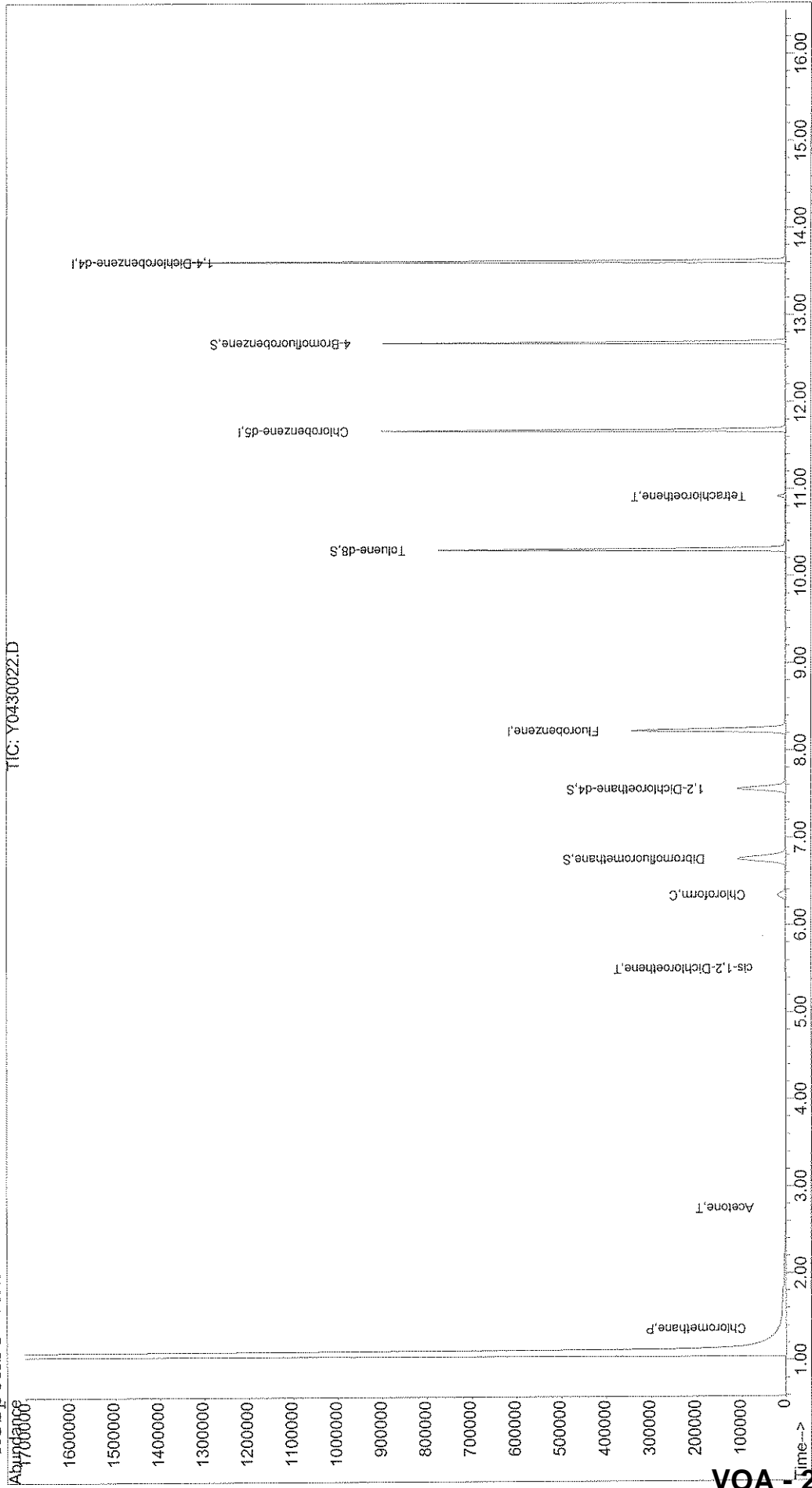
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430022.D Vial: 11
Acq On : 30 Apr 2008 15:19 Operator: DGA
Sample : JPL101-002 Inst : Yoda
Misc : #4 5mL +IS/SS(524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 5 9:38 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260 - 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430022.D
 Acq On : 30 Apr 2008 15:19
 Sample : JPL101-002
 Misc : #4 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:38 2008

Vial: 11
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	407176	50.00	ug/l	0.00 79.74%
54) Chlorobenzene-d5	11.68	82	220822	50.00	ug/l	0.00 90.28%
74) 1,4-Dichlorobenzene-d4	13.61	152	309805	50.00	ug/l	0.00 88.40%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	141602	53.16	ug/l	0.00
Spiked Amount	50.000	Range 85 - 115	Recovery =	106.32%		
40) 1,2-Dichloroethane-d4	7.55	65	128951	50.69	ug/l	0.00
Spiked Amount	50.000	Range 70 - 120	Recovery =	101.38%		
55) Toluene-d8	10.30	98	454558	47.54	ug/l	0.00
Spiked Amount	50.000	Range 85 - 120	Recovery =	95.08%		
76) 4-Bromofluorobenzene	12.68	95	205978	51.14	ug/l	0.00
Spiked Amount	50.000	Range 75 - 120	Recovery =	102.28%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	1833	0.37	ug/l	94
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.75	43	916	0.95	ug/l #	61
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.88	76	296	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.		
17) Methyl Acetate	3.10	43	68	N.D.	d	
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	3.60	96	55	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	3.69	73	270	N.D.		

(#) = qualifier out of range (m) = manual integration
 Y0430022.D Y8260W.M Mon May 05 09:38:42 2008

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430022.D
 Acq On : 30 Apr 2008 15:19
 Sample : JPL101-002
 Misc : #4 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:38 2008

Vial: 11
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	4.34	63	118	N.D.		
24) Vinyl acetate	0.00	43	0	N.D.		
25) Chloroprene	0.00	53	0	N.D.		
26) Isopropyl ether	0.00	45	0	N.D.		
27) Ethyl-t-butyl ether	0.00	59	0	N.D.		
28) 2,2-Dichloropropane	0.00	77	0	N.D.		
29) cis-1,2-Dichloroethene	5.51	96	1225	0.35 ug/l	#	43
30) 2-Butanone	0.00	43	0	N.D.		
31) Propionitrile	0.00	54	0	N.D.		
32) Bromochloromethane	0.00	128	0	N.D.		
33) Methacrylonitrile	0.00	41	0	N.D.		
34) Chloroform	6.34	83	29831	4.87 ug/l		98
35) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
37) Cyclohexane	0.00	56	0	N.D.		
38) Carbon Tetrachloride	0.00	117	0	N.D.		
39) 1,1-Dichloropropene	0.00	75	0	N.D.		
41) Benzene	7.65	78	72	N.D.		
42) 1,2-Dichloroethane	0.00	62	0	N.D.		
43) Isobutanol	0.00	43	0	N.D.	d	
44) t-amyl methyl ether	0.00	73	0	N.D.		
45) Trichloroethene	8.80	130	476	N.D.		
46) Methylcyclohexane	0.00	83	0	N.D.		
47) 1,2-Dichloropropane	0.00	63	0	N.D.		
48) Dibromomethane	0.00	93	0	N.D.		
49) Methyl methacrylate	0.00	41	0	N.D.		
50) Bromodichloromethane	9.50	83	206	N.D.		
51) 2-Chloroethyl vinyl ether	0.00	63	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	43	0	N.D.	d	
56) Toluene	10.37	92	71	N.D.		
57) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
58) Ethyl methacrylate	0.00	69	0	N.D.		
59) 1,1,2-Trichloroethane	10.90	97	67	N.D.		
60) Tetrachloroethene	10.92	166	4974	1.38 ug/l		95
61) 1,3-Dichloropropane	0.00	76	0	N.D.		
62) 2-Hexanone	10.93	43	98	N.D.		
63) Dibromochloromethane	0.00	129	0	N.D.	d	
64) 1,2-Dibromoethane	0.00	107	0	N.D.		
65) Chlorobenzene	11.71	112	57	N.D.		
66) 1-Chlorohexane	0.00	91	0	N.D.	d	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

(#) = qualifier out of range (m) = manual integration
 Y0430022.D Y8260W.M Mon May 05 09:38:43 2008

of sheets
VOA-26

Quantitation Report

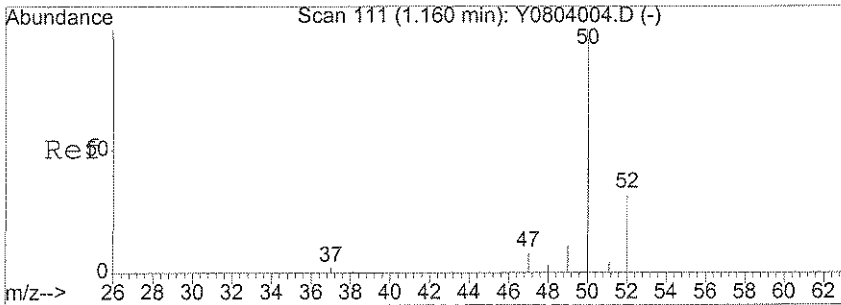
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 Acq On : 30 Apr 2008 15:19
 Sample : JPL101-002
 Misc : #4 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:38 2008

Vial: 11
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

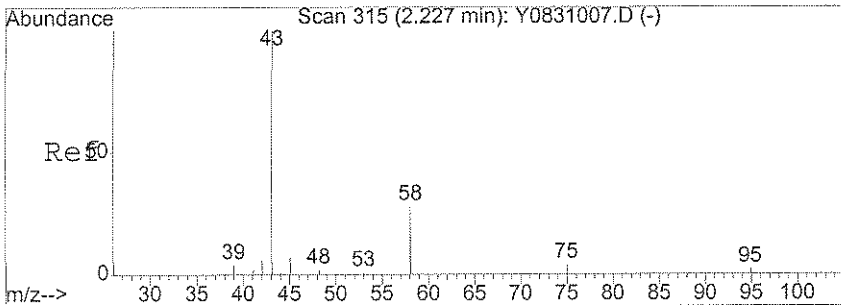
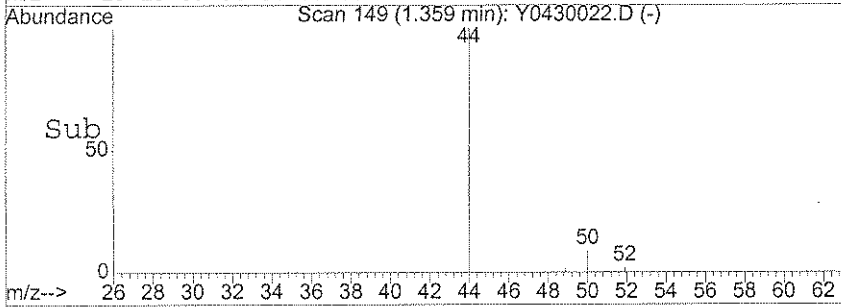
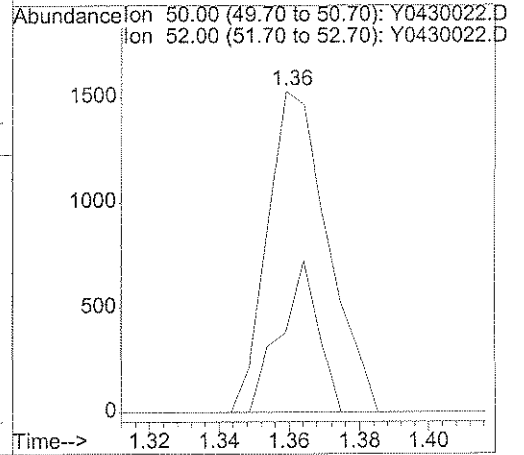
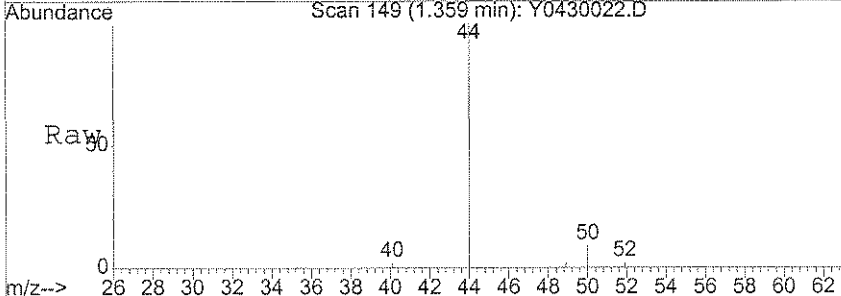
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.80	91	204		N.D.	
69) m,p-Xylene	11.91	106	151		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.55	105	61		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	114		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	13.03	120	59		N.D.	
81) 2-Chlorotoluene	12.96	91	56		N.D.	
82) 4-Chlorotoluene	12.96	91	56		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	127		N.D.	
88) 4-Isopropyltoluene	13.59	119	114		N.D.	
89) 1,4-Dichlorobenzene	13.62	146	248		N.D.	
90) 1,2-Dichlorobenzene	13.92	146	298		N.D.	
91) n-Butylbenzene	13.91	91	306		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	192		N.D.	
94) Hexachlorobutadiene	0.00	225	0		N.D.	
95) Naphthalene	0.00	128	0		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	109		N.D.	



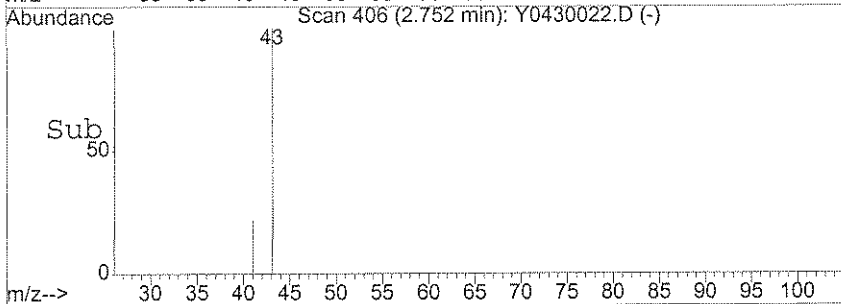
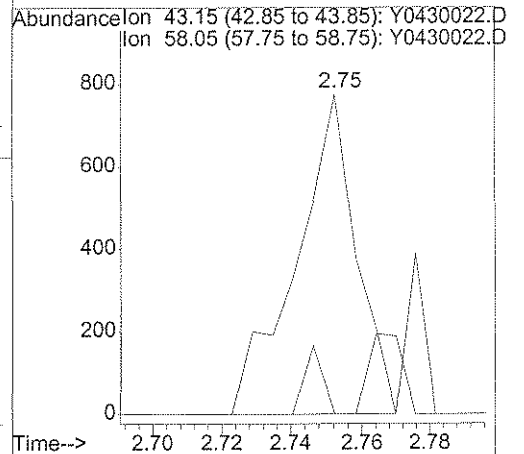
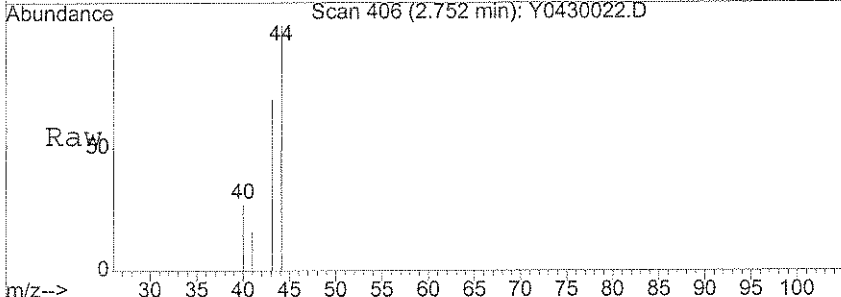
#3
 Chloromethane
 Concen: 0.37 ug/l
 RT: 1.36 min Scan# 149
 Delta R.T. -0.01 min
 Lab File: Y0430022.D
 Acq: 30 Apr 2008 15:19

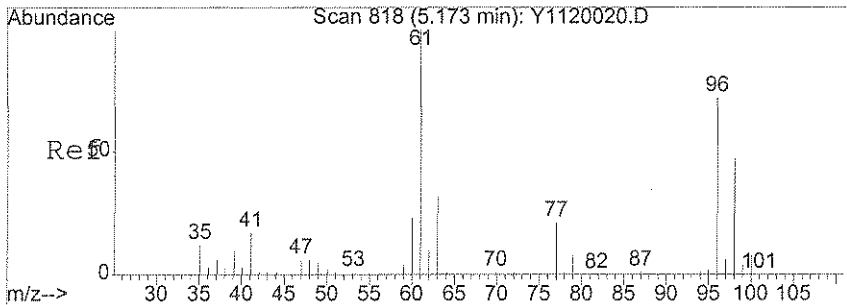
Tgt Ion	Resp	Lower	Upper
50	1833		
50	100		
52	29.8	13.0	53.0



#11
 Acetone
 Concen: 0.95 ug/l
 RT: 2.75 min Scan# 406
 Delta R.T. 0.02 min
 Lab File: Y0430022.D
 Acq: 30 Apr 2008 15:19

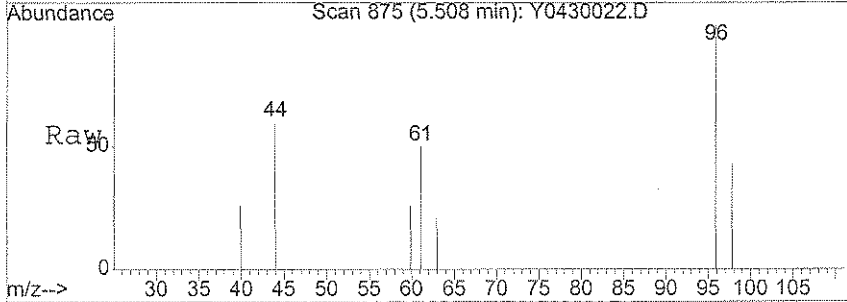
Tgt Ion	Resp	Lower	Upper
43	916		
43	100		
58	6.4	21.3	31.9#



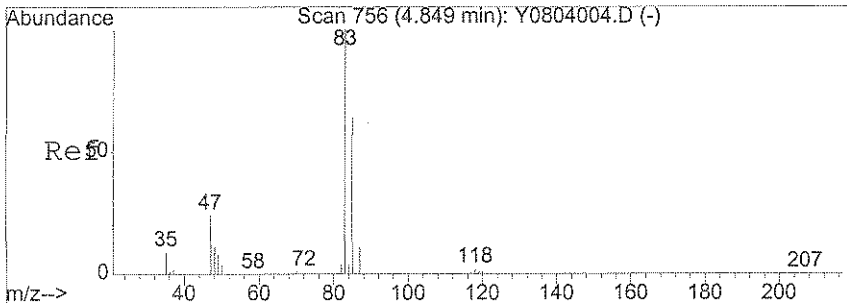
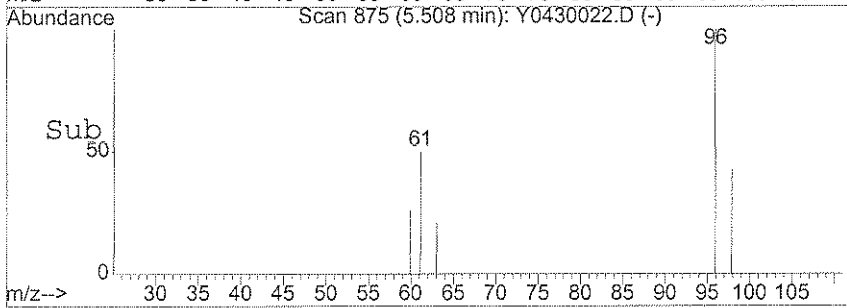
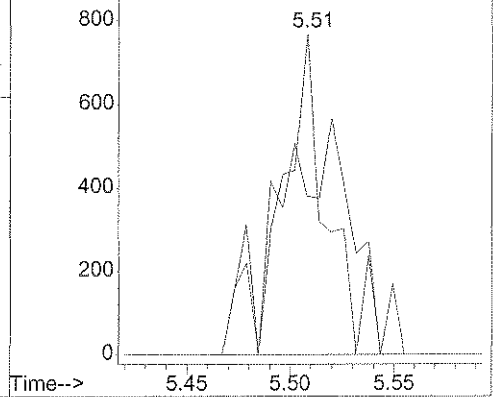


#29
 cis-1,2-Dichloroethene
 Concen: 0.35 ug/l
 RT: 5.51 min Scan# 875
 Delta R.T. 0.01 min
 Lab File: Y0430022.D
 Acq: 30 Apr 2008 15:19

Tgt Ion: 96 Resp: 1225
 Ion Ratio Lower Upper
 96 100
 61 58.5 98.1 147.1#

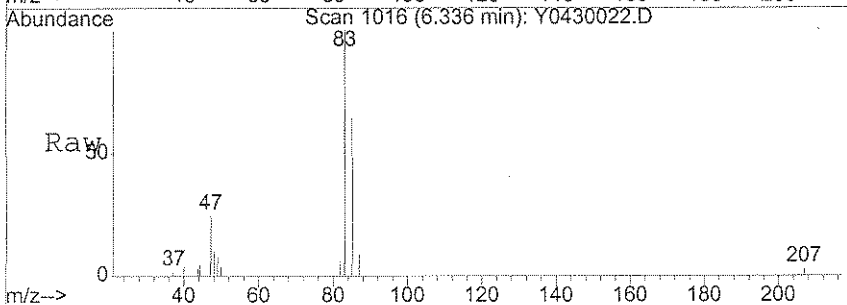


Abundance Ion 95.95 (95.65 to 96.65): Y0430022.D
 Ion 61.05 (60.75 to 61.75): Y0430022.D

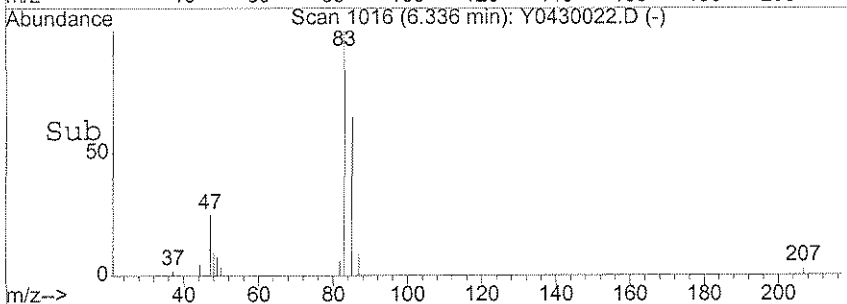
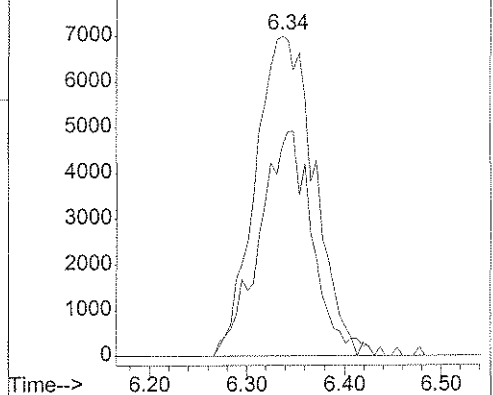


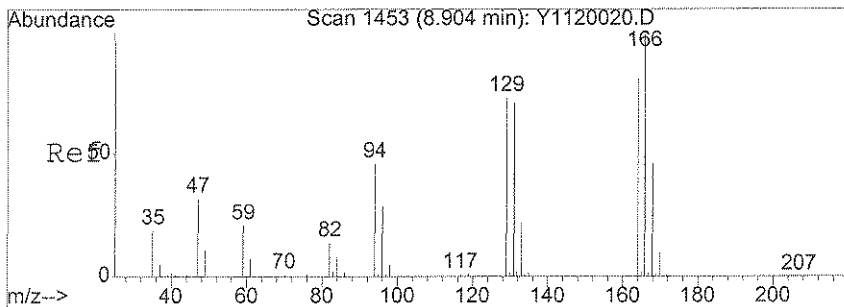
#34
 Chloroform
 Concen: 4.87 ug/l
 RT: 6.34 min Scan# 1016
 Delta R.T. 0.00 min
 Lab File: Y0430022.D
 Acq: 30 Apr 2008 15:19

Tgt Ion: 83 Resp: 29831
 Ion Ratio Lower Upper
 83 100
 85 61.8 43.3 83.3



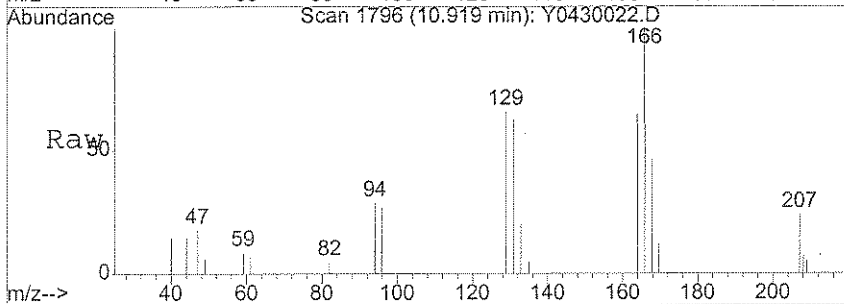
Abundance Ion 83.00 (82.70 to 83.70): Y0430022.D
 Ion 85.00 (84.70 to 85.70): Y0430022.D



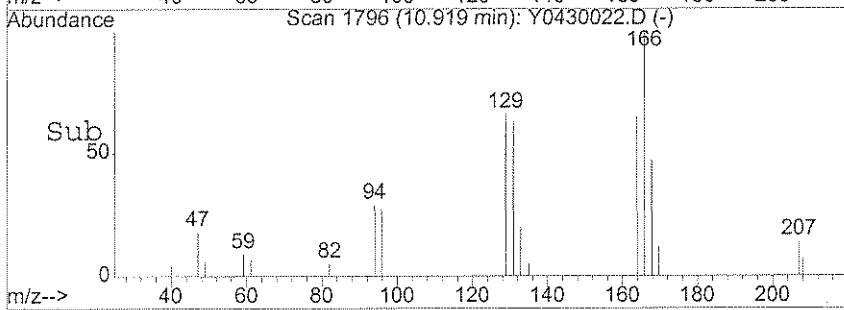
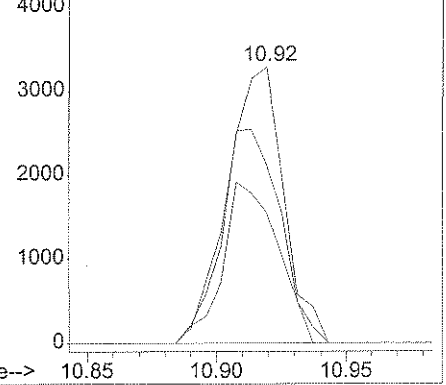


#60
 Tetrachloroethene
 Concen: 1.38 ug/l
 RT: 10.92 min Scan# 1796
 Delta R.T. 0.01 min
 Lab File: Y0430022.D
 Acq: 30 Apr 2008 15:19

Tgt Ion	Resp	Lower	Upper
166	4974		
166	100		
164	79.3	63.3	94.9
168	58.2	39.6	59.4



Abundance
 Ion 165.95 (165.65 to 166.65): Y043002
 Ion 163.95 (163.65 to 164.65): Y043002
 Ion 167.95 (167.65 to 168.65): Y043002



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-3

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-003
 Lab File ID: Y0430023.D
 Date Collected: 04/28/2008
 Date/Time Analyzed: 04/30/2008 15:43
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.55	
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.87	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	3.0	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	1.1	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-3

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-003
 Lab File ID: Y0430023.D
 Date Collected: 04/28/2008
 Date/Time Analyzed: 04/30/2008 15:43
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	4.6	
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-3

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-003
 Lab File ID: Y0430023.D
 Date Collected: 04/28/2008
 Date/Time Analyzed: 04/30/2008 15:43
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

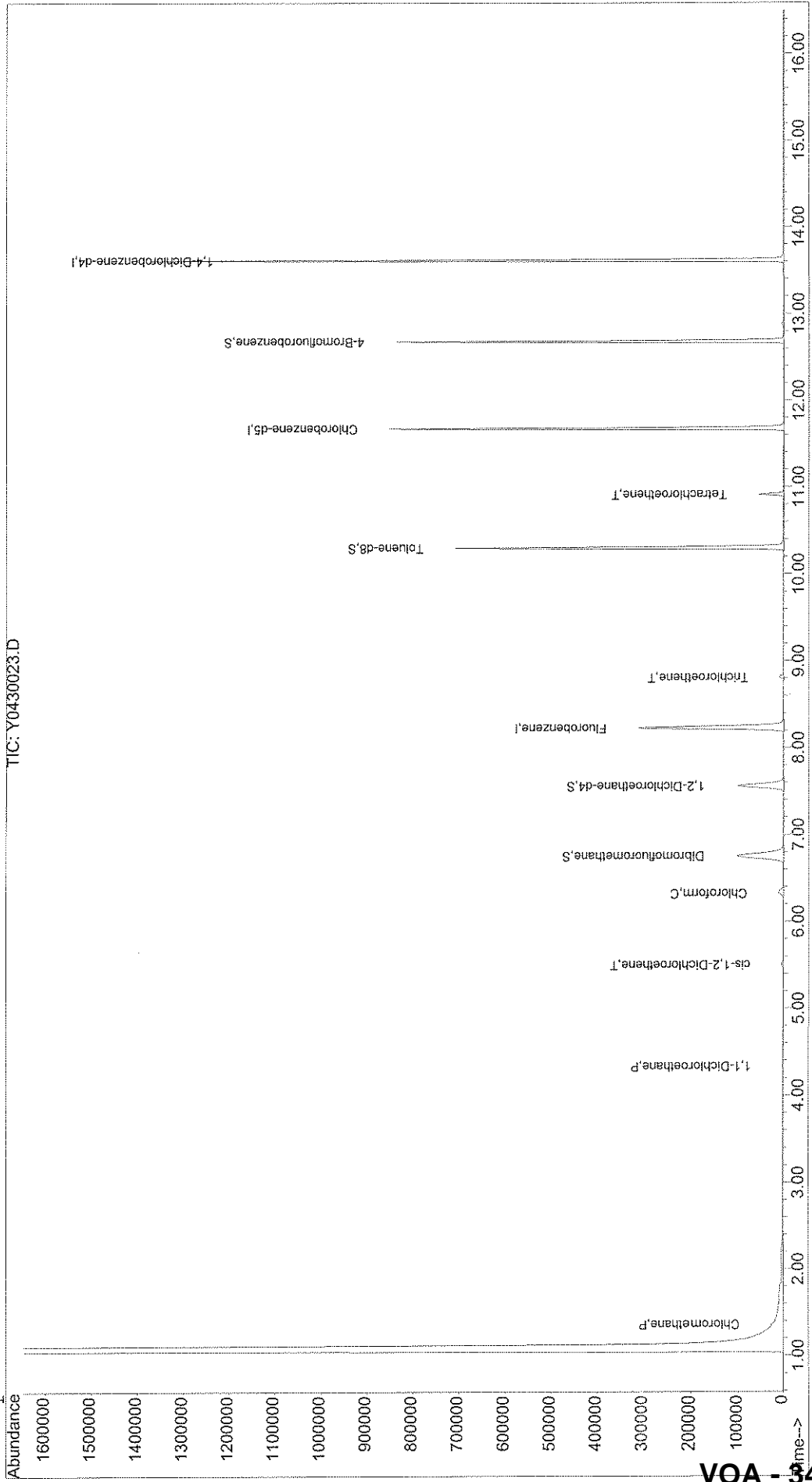
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430023.D Vial: 12
Acq On : 30 Apr 2008 15:43 Operator: DGA
Sample : JPL101-003 Inst : Yoda
Misc : #2 5mL +IS/SS(524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 6 13:40 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



VOA - 34

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430023.D
 Acq On : 30 Apr 2008 15:43
 Sample : JPL101-003
 Misc : #2 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 6 13:40 2008

Vial: 12
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	372273	50.00	ug/l	0.00 72.91%
54) Chlorobenzene-d5	11.68	82	206856	50.00	ug/l	0.00 84.57%
74) 1,4-Dichlorobenzene-d4	13.61	152	302591	50.00	ug/l	0.00 86.34%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	133017	54.62	ug/l	0.00
Spiked Amount	50.000	Range	85 - 115	Recovery	=	109.24%
40) 1,2-Dichloroethane-d4	7.56	65	118969	51.15	ug/l	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.30%
55) Toluene-d8	10.30	98	409555	45.72	ug/l	0.00
Spiked Amount	50.000	Range	85 - 120	Recovery	=	91.44%
76) 4-Bromofluorobenzene	12.68	95	195383	49.67	ug/l	0.00
Spiked Amount	50.000	Range	75 - 120	Recovery	=	99.34%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.	
3) Chloromethane	1.36	50	2497	0.55 ug/l	91
4) Vinyl Chloride	0.00	62	0	N.D.	
5) Bromomethane	0.00	96	0	N.D.	
6) Chloroethane	0.00	64	0	N.D.	
7) Trichlorofluoromethane	0.00	101	0	N.D.	
8) Acrolein	0.00	56	0	N.D.	
9) 1,1-Dichloroethene	0.00	96	0	N.D.	
10) 1,1,2-Trichloro-1,2,2-trif	2.69	101	57	N.D.	
11) Acetone	0.00	43	0	N.D. d	
12) Iodomethane	0.00	142	0	N.D.	
13) Bromoethane	0.00	108	0	N.D.	
14) Carbon Disulfide	2.88	76	140	N.D.	
15) Allyl chloride	0.00	76	0	N.D.	
16) Acetonitrile	0.00	40	0	N.D. d	
17) Methyl Acetate	0.00	43	0	N.D.	
18) Methylene Chloride	3.28	84	79	Below Cal	# 58
19) trans-1,2-Dichloroethene	3.67	96	195	N.D.	
20) Acrylonitrile	3.63	53	54	N.D.	
21) t-butyl alcohol	0.00	59	0	N.D.	
22) Methyl tert-butyl ether	3.69	73	785	N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0430023.D Y8260W.M Tue May 06 13:40:55 2008

J. Sheh

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430023.D
 Acq On : 30 Apr 2008 15:43
 Sample : JPL101-003
 Misc : #2 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 6 13:40 2008

Vial: 12
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	4.33	63	1144	0.20	ug/l #	63
24) Vinyl acetate	0.00	43	0	N.D.		
25) Chloroprene	0.00	53	0	N.D.		
26) Isopropyl ether	0.00	45	0	N.D.		
27) Ethyl-t-butyl ether	0.00	59	0	N.D.		
28) 2,2-Dichloropropane	0.00	77	0	N.D.		
29) cis-1,2-Dichloroethene	5.50	96	2814m	0.87	ug/l #	98
30) 2-Butanone	5.69	43	75	N.D.		
31) Propionitrile	0.00	54	0	N.D.		
32) Bromochloromethane	0.00	128	0	N.D.		
33) Methacrylonitrile	6.17	41	55	N.D.		
34) Chloroform	6.32	83	16836	3.01	ug/l	98
35) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
37) Cyclohexane	0.00	56	0	N.D.		
38) Carbon Tetrachloride	0.00	117	0	N.D.		
39) 1,1-Dichloropropene	0.00	75	0	N.D.		
41) Benzene	7.65	78	137	N.D.		
42) 1,2-Dichloroethane	0.00	62	0	N.D.		
43) Isobutanol	0.00	43	0	N.D.	d	
44) t-amyl methyl ether	0.00	73	0	N.D.		
45) Trichloroethene	8.82	130	3367	1.12	ug/l	95
46) Methylcyclohexane	0.00	83	0	N.D.		
47) 1,2-Dichloropropane	0.00	63	0	N.D.		
48) Dibromomethane	0.00	93	0	N.D.		
49) Methyl methacrylate	0.00	41	0	N.D.		
50) Bromodichloromethane	9.50	83	60	N.D.		
51) 2-Chloroethyl vinyl ether	0.00	63	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	10.23	43	109	N.D.		
56) Toluene	10.37	92	127	N.D.		
57) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
58) Ethyl methacrylate	0.00	69	0	N.D.		
59) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
60) Tetrachloroethene	10.91	166	15401	4.55	ug/l	95
61) 1,3-Dichloropropane	10.84	76	67	N.D.		
62) 2-Hexanone	11.20	43	58	N.D.		
63) Dibromochloromethane	0.00	129	0	N.D.	d	
64) 1,2-Dibromoethane	0.00	107	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) 1-Chlorohexane	0.00	91	0	N.D.	d	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

(#) = qualifier out of range (m) = manual integration
 Y0430023.D Y8260W.M Tue May 06 13:40:56 2008

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430023.D
 Acq On : 30 Apr 2008 15:43
 Sample : JPL101-003
 Misc : #2 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 6 13:40 2008

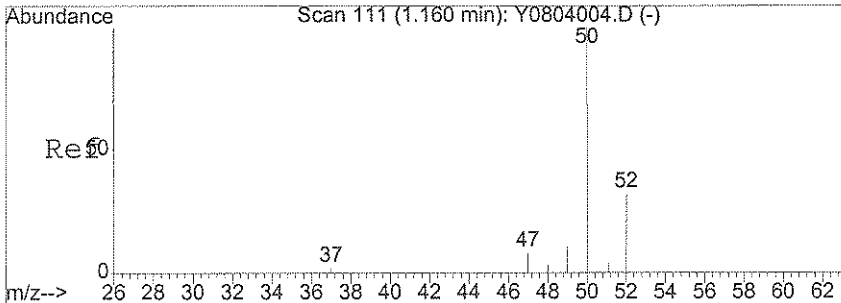
Vial: 12
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

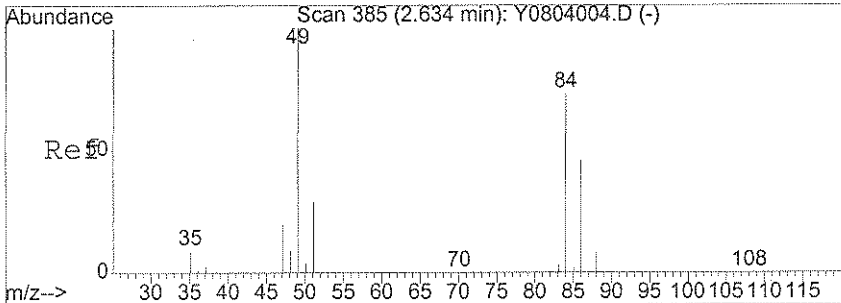
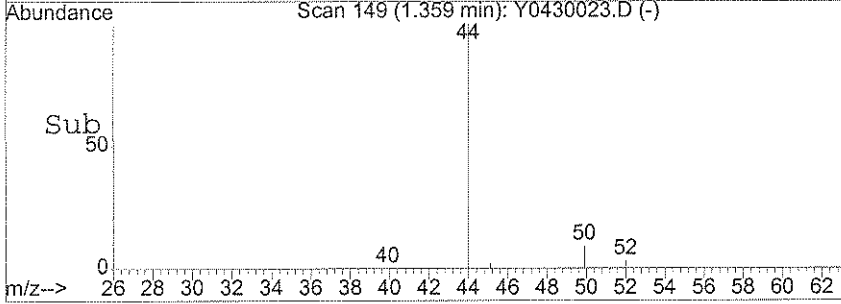
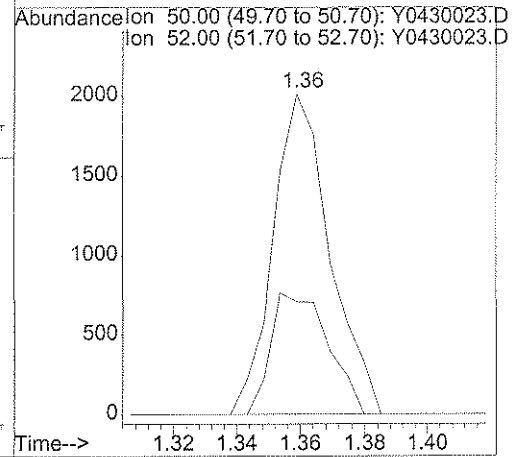
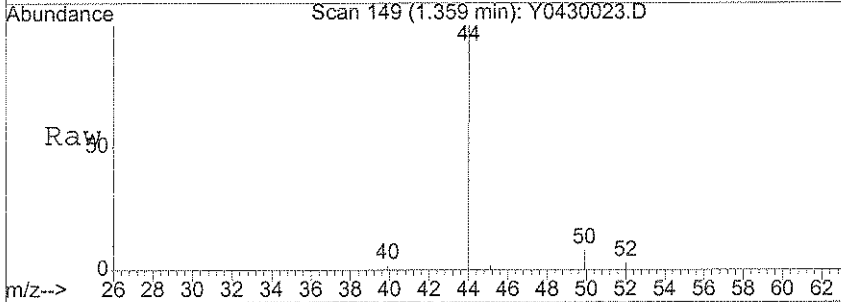
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	57		N.D.	
69) m,p-Xylene	11.91	106	153		N.D.	
70) o-xylene	12.25	106	59		N.D.	
71) Styrene	12.26	104	376		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.69	105	305		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	221		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.68	91	355		N.D.	
82) 4-Chlorotoluene	0.00	91	0		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	
87) 1,3-Dichlorobenzene	13.56	146	256		N.D.	
88) 4-Isopropyltoluene	13.59	119	113		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	109		N.D.	
90) 1,2-Dichlorobenzene	13.92	146	544		N.D.	
91) n-Butylbenzene	13.91	91	215		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	167		N.D.	
94) Hexachlorobutadiene	15.30	225	151		N.D.	
95) Naphthalene	15.36	128	68		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	354		N.D.	

J. Sheby



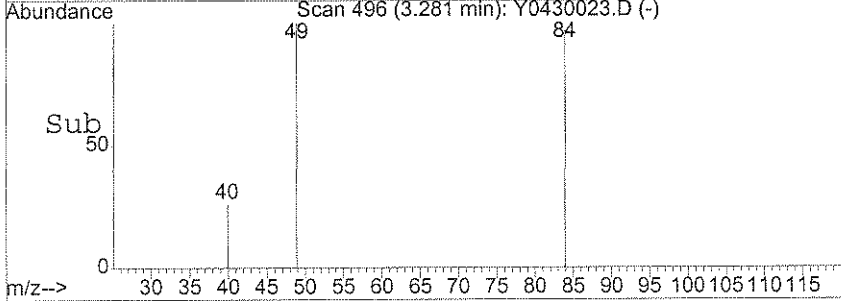
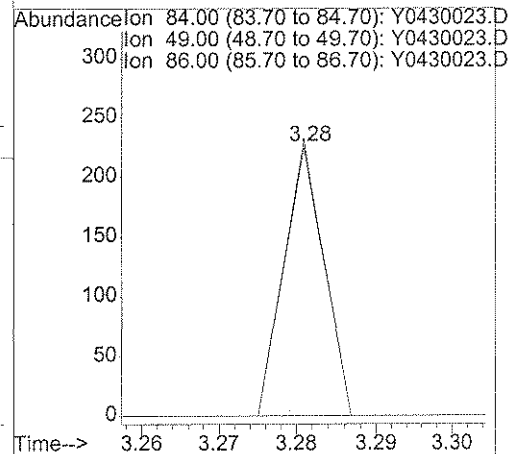
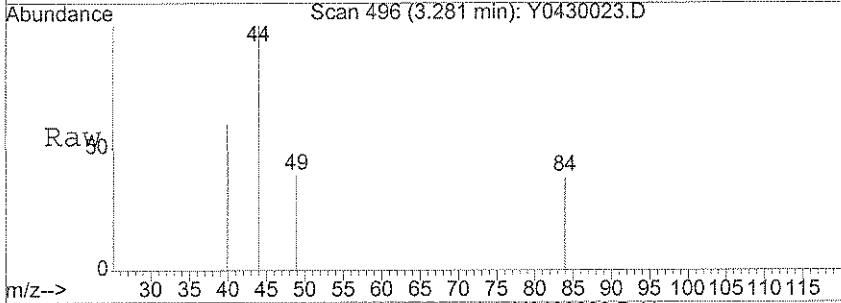
#3
 Chloromethane
 Concen: 0.55 ug/l
 RT: 1.36 min Scan# 149
 Delta R.T. -0.01 min
 Lab File: Y0430023.D
 Acq: 30 Apr 2008 15:43

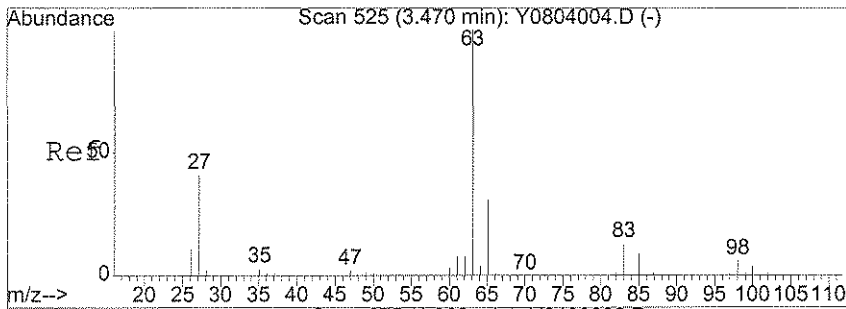
Tgt Ion: 50 Resp: 2497
 Ion Ratio Lower Upper
 50 100
 52 38.0 13.0 53.0



#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.28 min Scan# 496
 Delta R.T. 0.01 min
 Lab File: Y0430023.D
 Acq: 30 Apr 2008 15:43

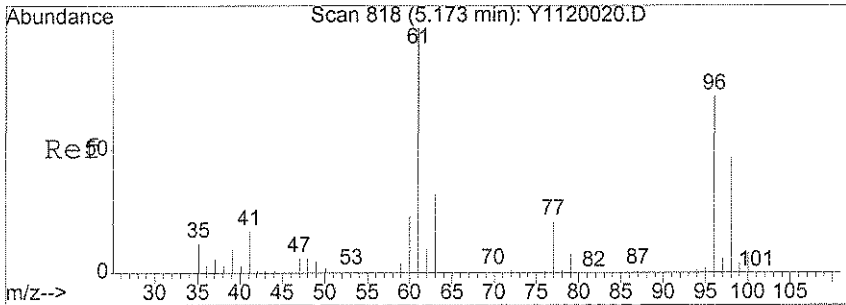
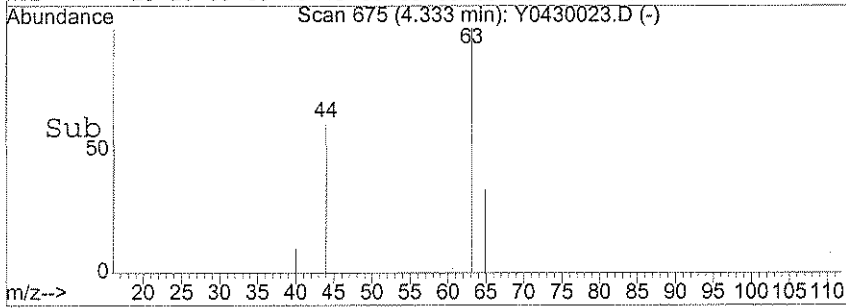
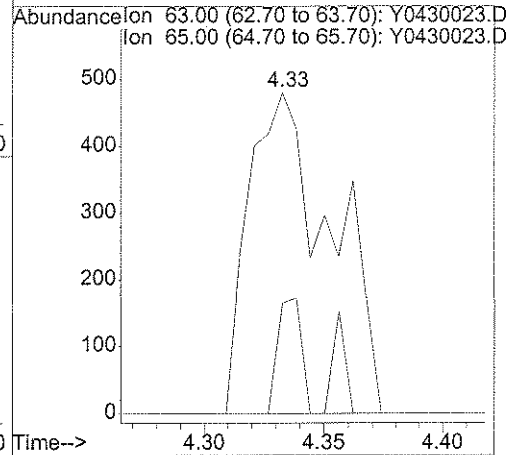
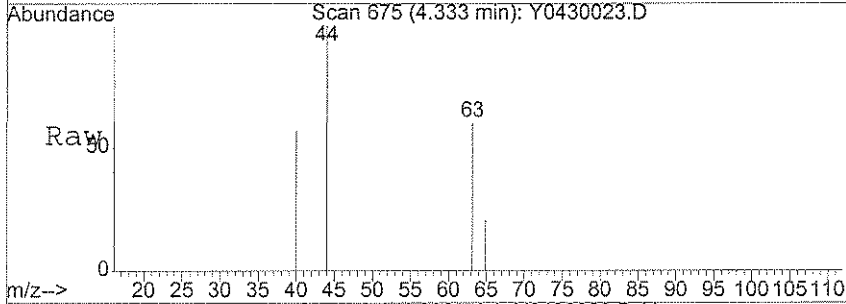
Tgt Ion: 84 Resp: 79
 Ion Ratio Lower Upper
 84 100
 49 102.5 112.5 152.5#
 86 0.0 39.5 79.5#





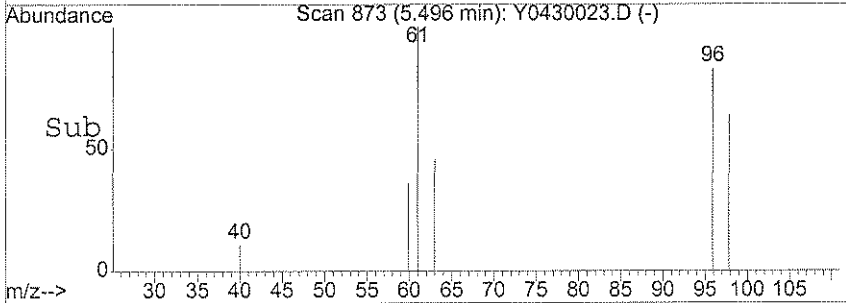
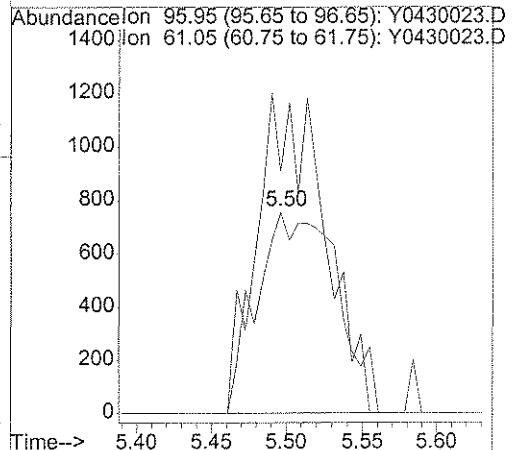
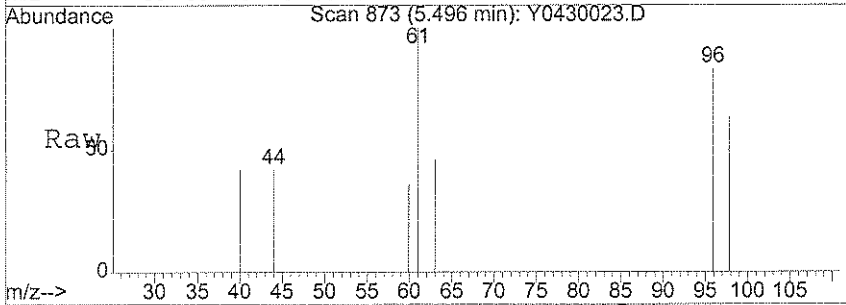
#23
 1,1-Dichloroethane
 Concen: 0.20 ug/l
 RT: 4.33 min Scan# 675
 Delta R.T. -0.01 min
 Lab File: Y0430023.D
 Acq: 30 Apr 2008 15:43

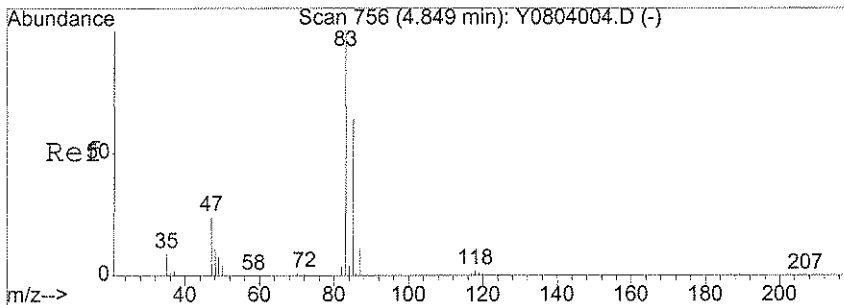
Tgt Ion: 63 Resp: 1144
 Ion Ratio Lower Upper
 63 100
 65 10.4 11.0 51.0#



#29
 cis-1,2-Dichloroethene
 Concen: 0.87 ug/l m
 RT: 5.50 min Scan# 873
 Delta R.T. -0.01 min
 Lab File: Y0430023.D
 Acq: 30 Apr 2008 15:43

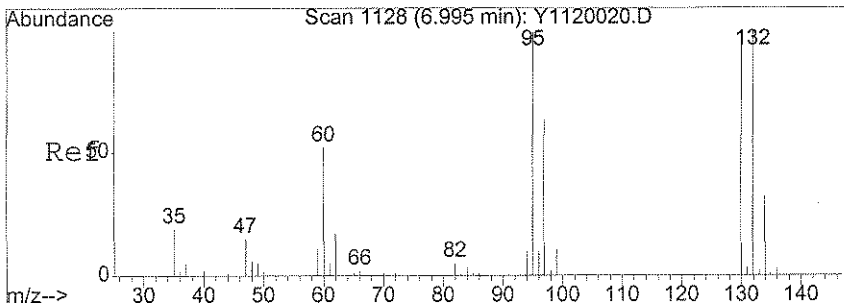
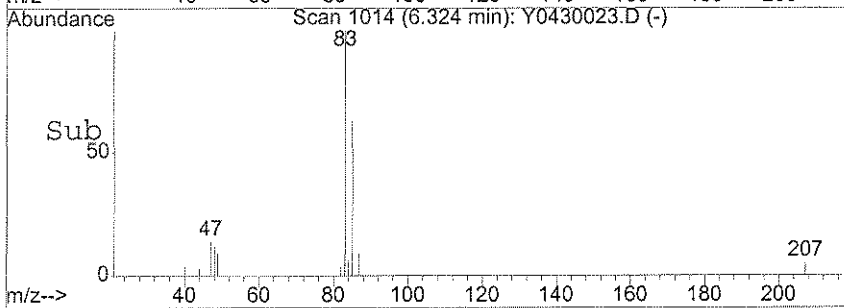
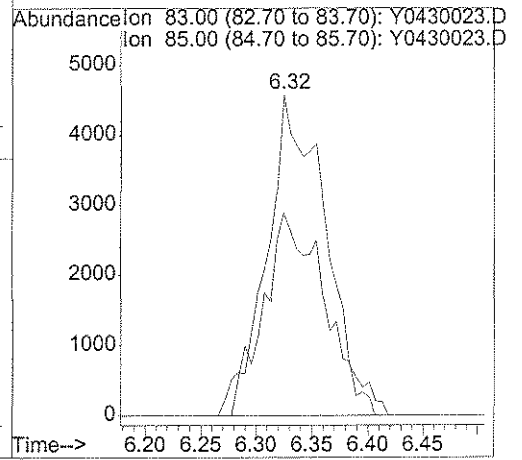
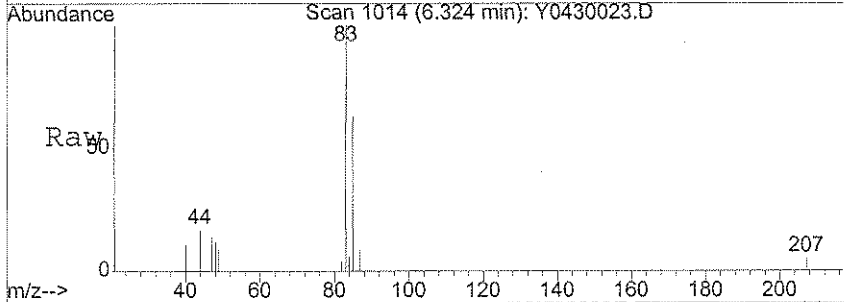
Tgt Ion: 96 Resp: 2814
 Ion Ratio Lower Upper
 96 100
 61 53.7 98.1 147.1#





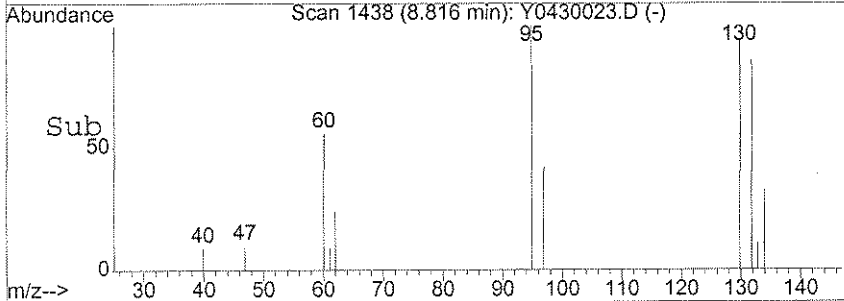
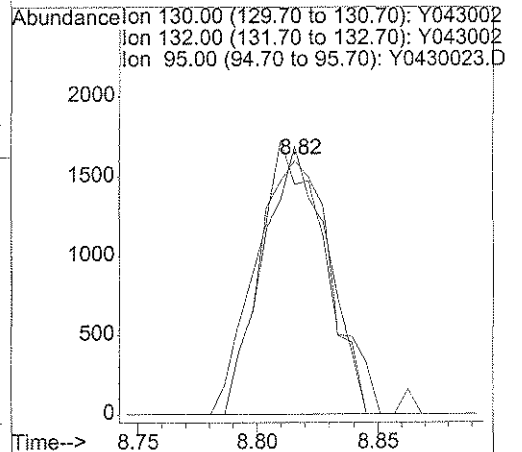
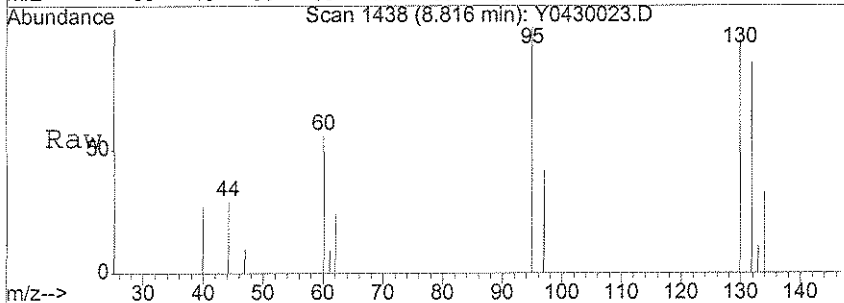
#34
 Chloroform
 Concen: 3.01 ug/l
 RT: 6.32 min Scan# 1014
 Delta R.T. -0.01 min
 Lab File: Y0430023.D
 Acq: 30 Apr 2008 15:43

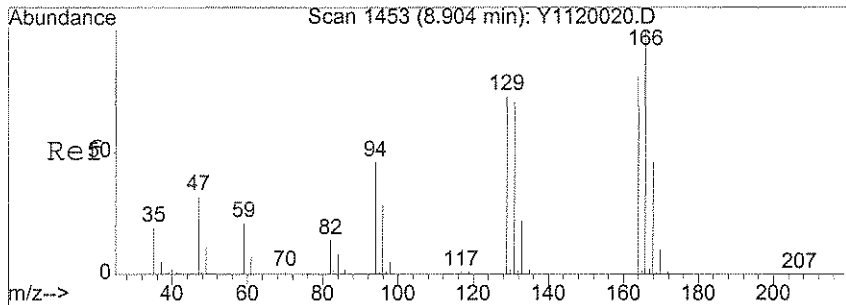
Tgt Ion: 83 Resp: 16836
 Ion Ratio Lower Upper
 83 100
 85 64.8 43.3 83.3



#45
 Trichloroethene
 Concen: 1.12 ug/l
 RT: 8.82 min Scan# 1438
 Delta R.T. -0.00 min
 Lab File: Y0430023.D
 Acq: 30 Apr 2008 15:43

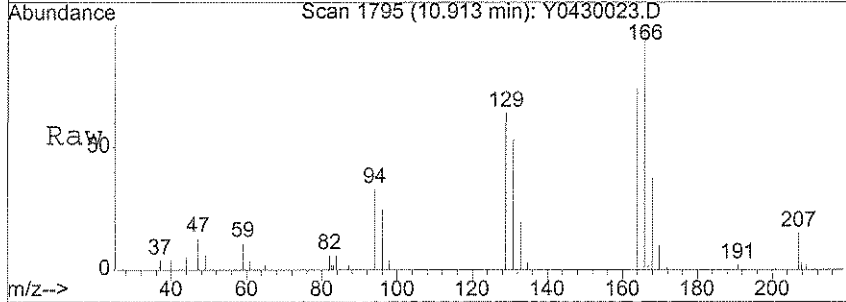
Tgt Ion: 130 Resp: 3367
 Ion Ratio Lower Upper
 130 100
 132 100.5 75.0 115.0
 95 93.8 69.4 109.4



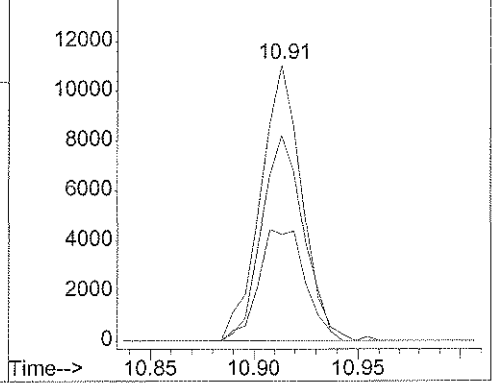
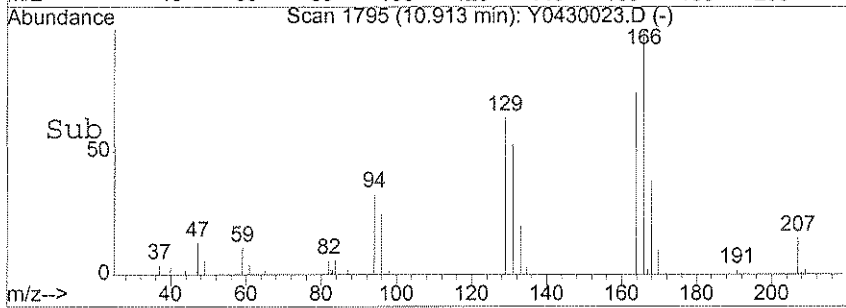


#60
 Tetrachloroethene
 Concen: 4.55 ug/l
 RT: 10.91 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: Y0430023.D
 Acq: 30 Apr 2008 15:43

Tgt Ion	Resp	Lower	Upper
166	15401		
166	100		
164	75.0	63.3	94.9
168	45.7	39.6	59.4



Abundance
 Ion 165.95 (165.65 to 166.65): Y043002
 Ion 163.95 (163.65 to 164.65): Y043002
 Ion 167.95 (167.65 to 168.65): Y043002



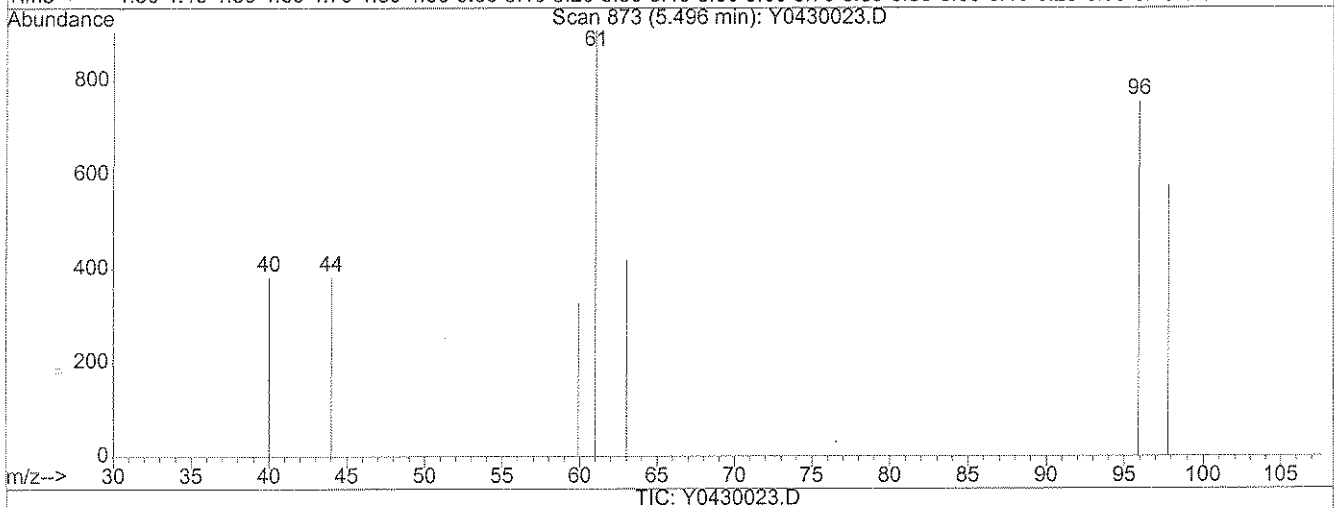
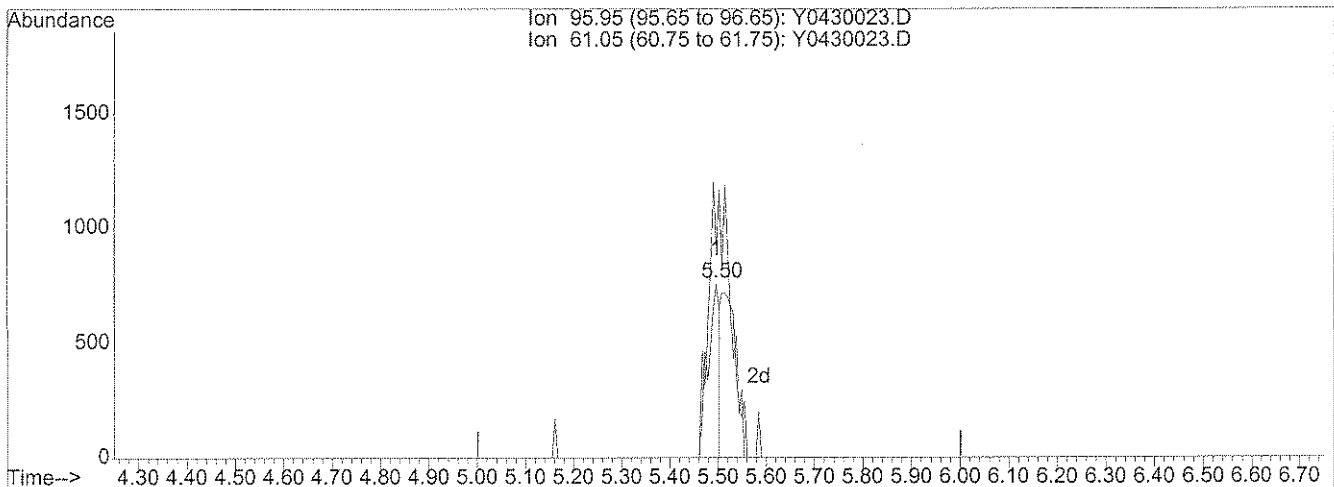
Quantitation Report (Qedit)

Data File : X:\MSVOA\YODA\043008\Y0430023.D
 Acq On : 30 Apr 2008 15:43
 Sample : JPL101-003
 Misc : #2 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:39 2008

Vial: 12
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: temp.res

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Multiple Level Calibration



(29) cis-1,2-Dichloroethene (T)

5.50min 0.39ug/l

response 1250

Ion	Exp%	Act%
95.95	100	100
61.05	122.60	120.88
0.00	0.00	0.00
0.00	0.00	0.00

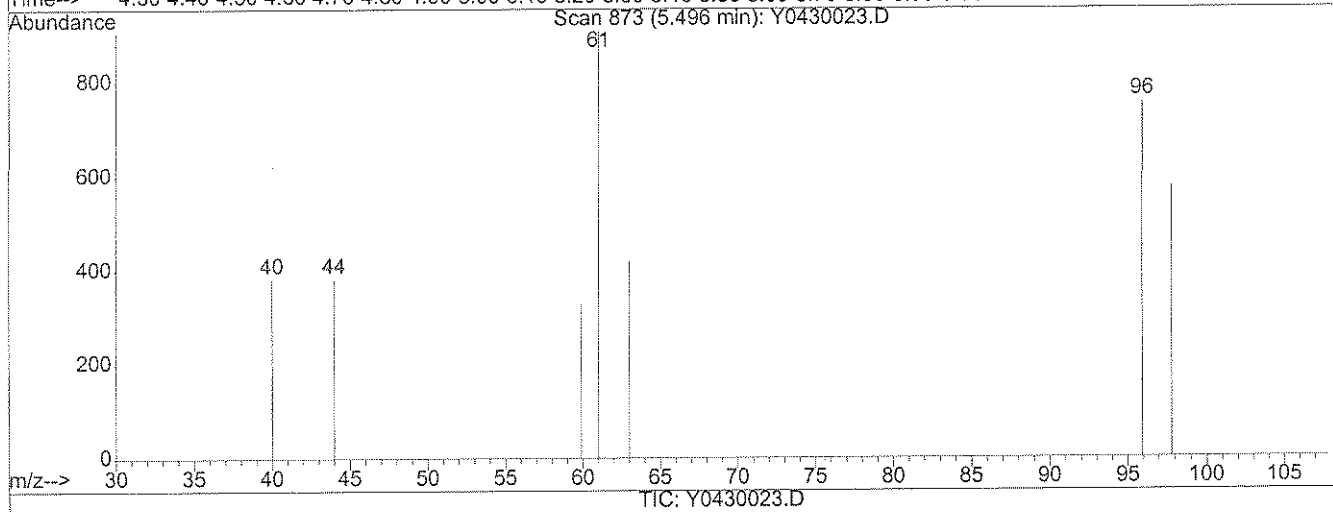
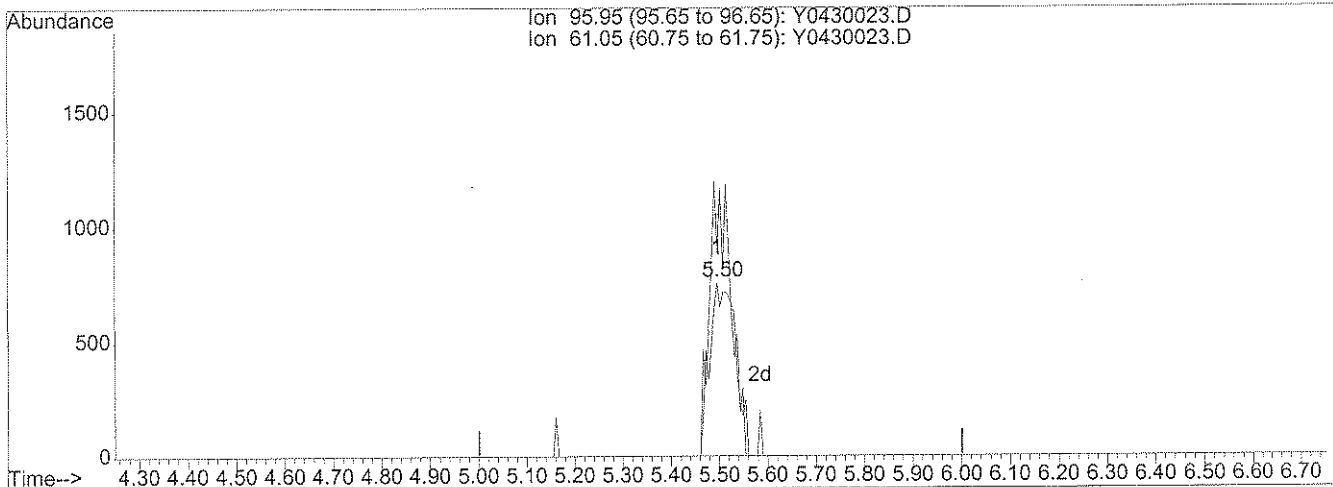
Quantitation Report (Qedit)

Data File : X:\MSVOA\YODA\043008\Y0430023.D
 Acq On : 30 Apr 2008 15:43
 Sample : JPL101-003
 Misc : #2 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:39 2008

Vial: 12
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: temp.res

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Multiple Level Calibration



(29) cis-1,2-Dichloroethene (T)

5.50min 0.87ug/l m

response 2814

Ion	Exp%	Act%
95.95	100	100
61.05	122.60	53.70#
0.00	0.00	0.00
0.00	0.00	0.00

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-2

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-004
 Lab File ID: Y0430024.D
 Date Collected: 04/28/2008
 Date/Time Analyzed: 04/30/2008 16:08
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	Q
		<u>ug/L</u>	
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.59	
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.90	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	1.1	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.45	J
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-2

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-004
 Lab File ID: Y0430024.D
 Date Collected: 04/28/2008
 Date/Time Analyzed: 04/30/2008 16:08
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	3.8	
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-2

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-004
 Lab File ID: Y0430024.D
 Date Collected: 04/28/2008
 Date/Time Analyzed: 04/30/2008 16:08
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

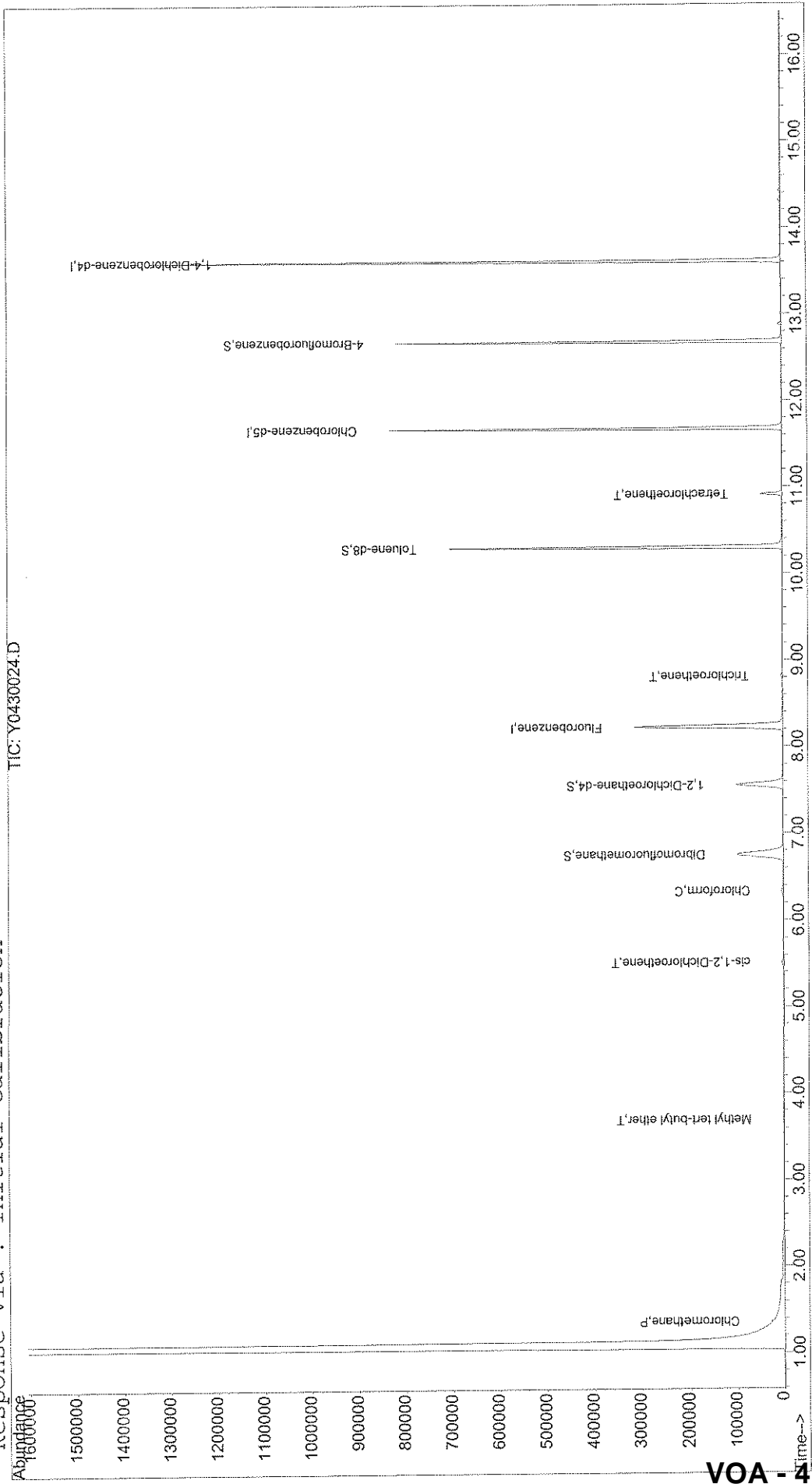
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430024.D
Acq On : 30 Apr 2008 16:08
Sample : JPL101-004
Misc : #3 5mL +IS/SS(524)
MS Integration Params: rteint.p
Quant Time: May 5 9:56 2008
Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260 - 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430024.D
 Acq On : 30 Apr 2008 16:08
 Sample : JPL101-004
 Misc : #3 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:56 2008

Vial: 13
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	368937	50.00	ug/l	0.00	72.25%
54) Chlorobenzene-d5	11.68	82	205347	50.00	ug/l	0.00	83.95%
74) 1,4-Dichlorobenzene-d4	13.61	152	293604	50.00	ug/l	0.00	83.78%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	131603	54.53	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	109.06%	
40) 1,2-Dichloroethane-d4	7.55	65	119547	51.86	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.72%	
55) Toluene-d8	10.30	98	411354	46.26	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	92.52%	
76) 4-Bromofluorobenzene	12.68	95	187724	49.18	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	98.36%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	2642	0.59 ug/l		98
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	0.00	43	0	N.D.	d	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.88	76	194	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	3.69	73	1555	0.18 ug/l	#	4 1/2 PAL 72 Cent Shells

(#) = qualifier out of range (m) = manual integration
 Y0430024.D Y8260W.M Mon May 05 09:56:10 2008

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430024.D
 Acq On : 30 Apr 2008 16:08
 Sample : JPL101-004
 Misc : #3 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:56 2008

Vial: 13
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	4.36	63	123		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	5.52	96	2883	0.90	ug/l	91
30) 2-Butanone	0.00	43	0		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.34	83	6052	1.09	ug/l	89
35) 1,1,1-Trichloroethane	6.71	97	60		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.64	78	158		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D. d	
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	8.82	130	1347	0.45	ug/l	95
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	9.50	83	126		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	10.19	43	137		N.D.	
56) Toluene	10.37	92	158		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.85	97	69		N.D.	
60) Tetrachloroethene	10.91	166	12873	3.83	ug/l	100
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	0.00	43	0		N.D. d	
63) Dibromochloromethane	0.00	129	0		N.D. d	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	117		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D. d	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0430024.D Y8260W.M Mon May 05 09:56:10 2008

J. S. Kelly
 Page 2
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Quantitation Report

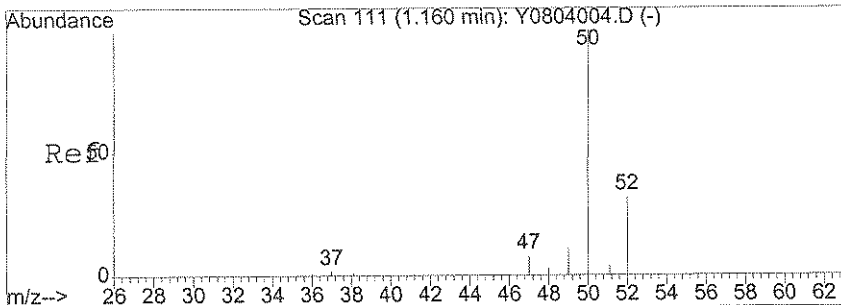
Data File : X:\MSVOA\YODA\043008\Y0430024.D
 Acq On : 30 Apr 2008 16:08
 Sample : JPL101-004
 Misc : #3 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:56 2008

Vial: 13
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

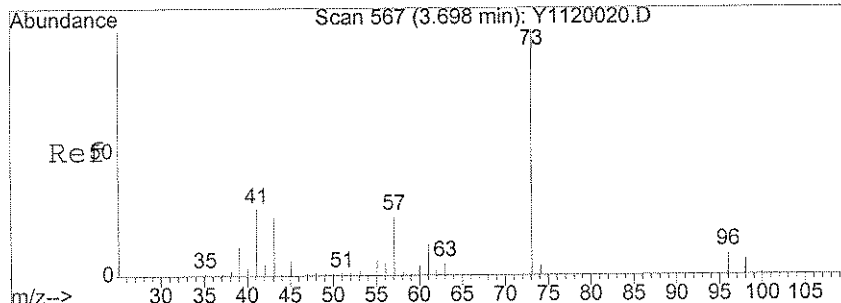
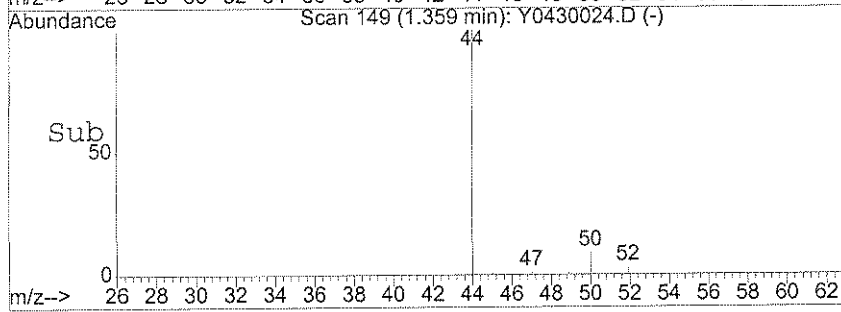
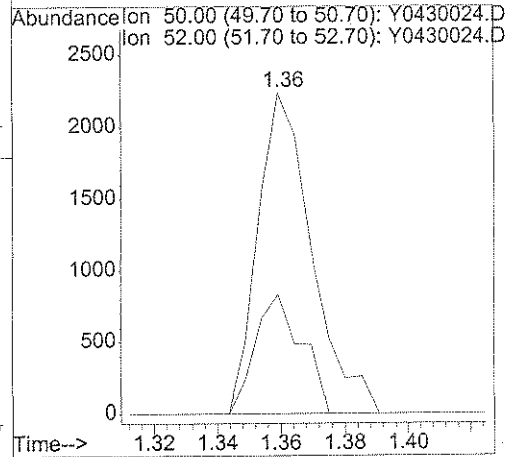
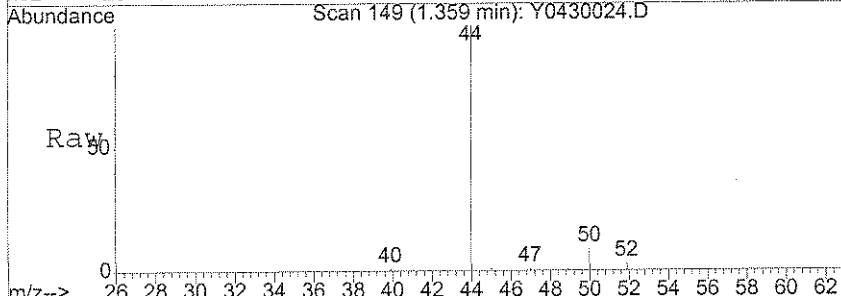
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	150		N.D.	
69) m,p-Xylene	0.00	106	0		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	12.70	173	74		N.D.	
73) Isopropylbenzene	12.56	105	63		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	71		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.79	83	56		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	13.05	91	145		N.D.	
82) 4-Chlorotoluene	13.05	91	145		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.55	146	65		N.D.	
88) 4-Isopropyltoluene	13.59	119	221		N.D.	
89) 1,4-Dichlorobenzene	13.62	146	119		N.D.	
90) 1,2-Dichlorobenzene	13.62	146	119		N.D.	
91) n-Butylbenzene	13.61	91	821		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.33	75	54		N.D.	
93) 1,2,4-Trichlorobenzene	15.31	180	54		N.D.	
94) Hexachlorobutadiene	15.30	225	123		N.D.	
95) Naphthalene	0.00	128	0		N.D.	
96) 1,2,3-Trichlorobenzene	15.55	180	80		N.D.	



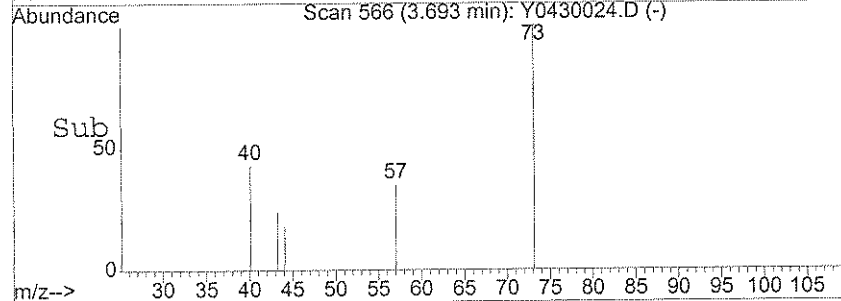
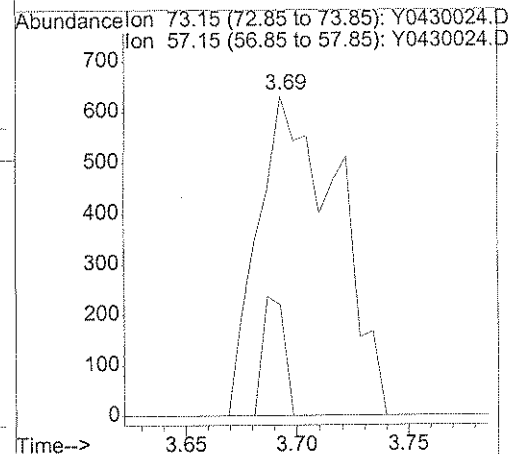
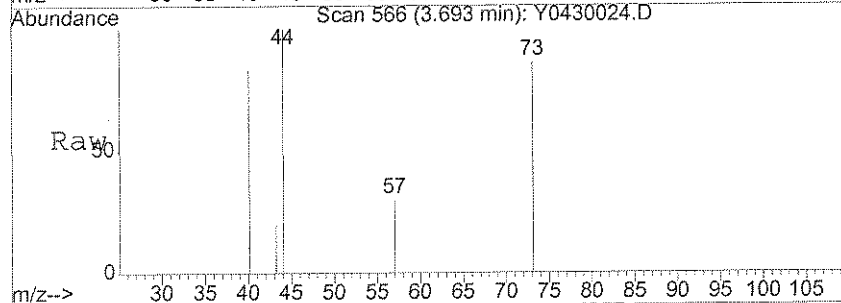
#3
 Chloromethane
 Concen: 0.59 ug/l
 RT: 1.36 min Scan# 149
 Delta R.T. -0.01 min
 Lab File: Y0430024.D
 Acq: 30 Apr 2008 16:08

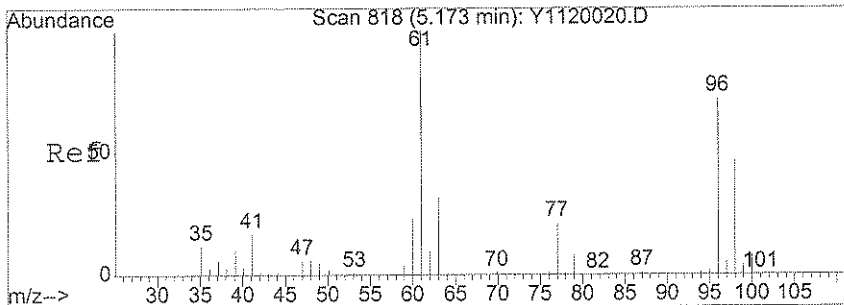
Tgt Ion: 50 Resp: 2642
 Ion Ratio Lower Upper
 50 100
 52 32.0 13.0 53.0



#22
 Methyl tert-butyl ether
 Concen: 0.18 ug/l
 RT: 3.69 min Scan# 566
 Delta R.T. -0.01 min
 Lab File: Y0430024.D
 Acq: 30 Apr 2008 16:08

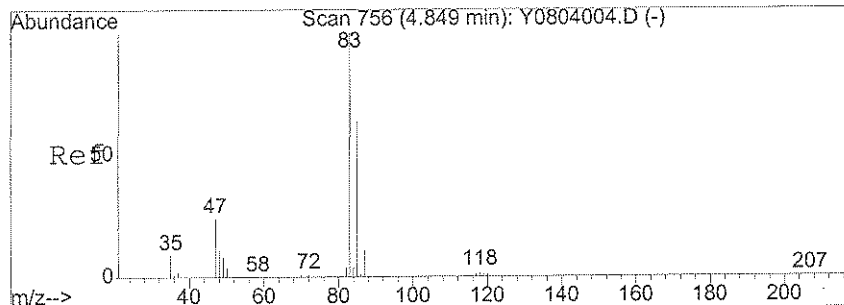
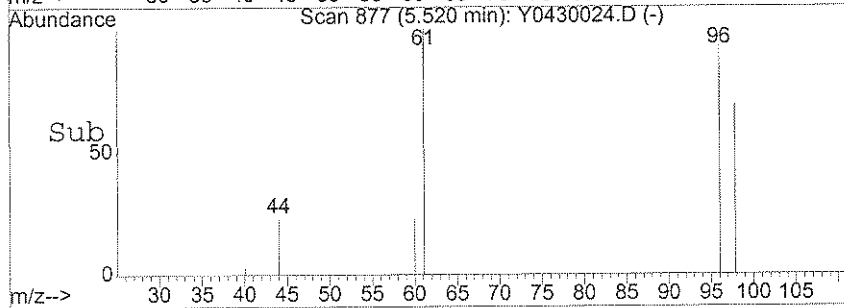
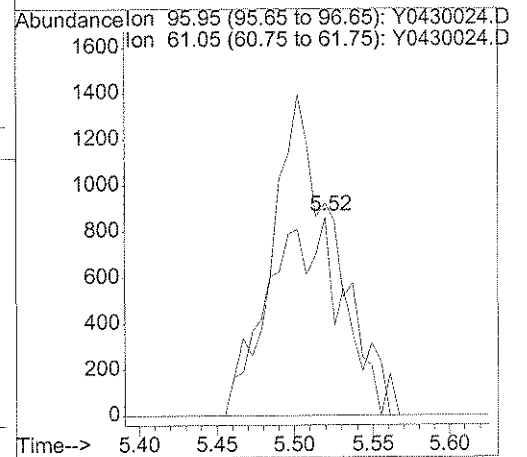
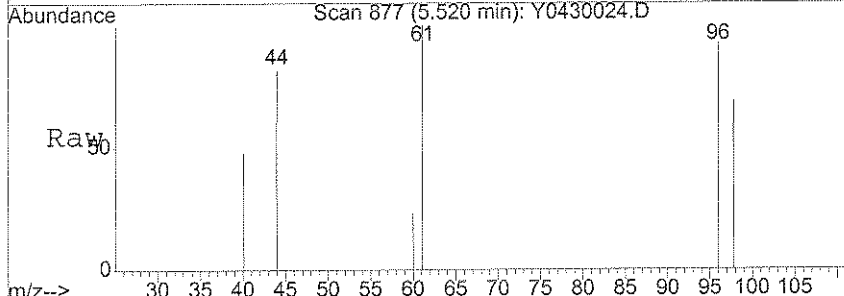
Tgt Ion: 73 Resp: 1555
 Ion Ratio Lower Upper
 73 100
 57 10.4 19.2 28.8#





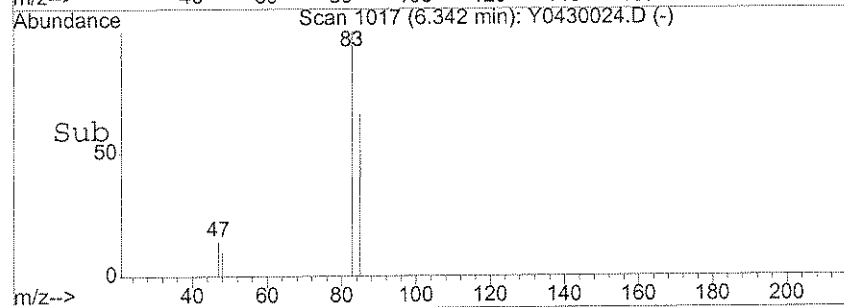
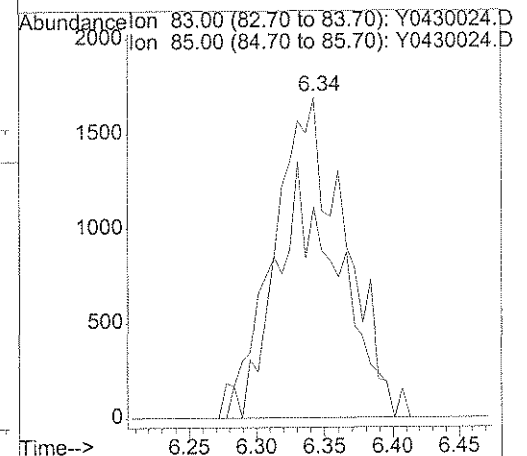
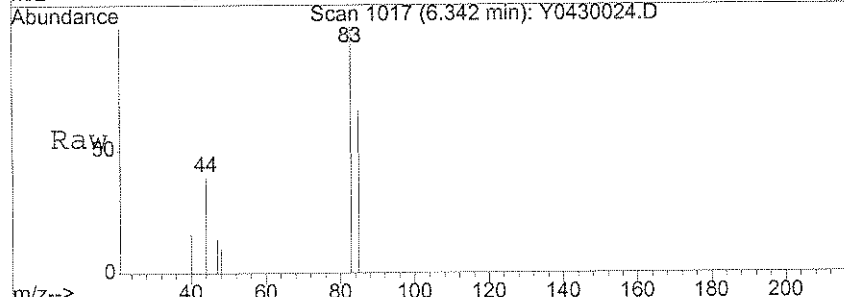
#29
 cis-1,2-Dichloroethene
 Concen: 0.90 ug/l
 RT: 5.52 min Scan# 877
 Delta R.T. 0.02 min
 Lab File: Y0430024.D
 Acq: 30 Apr 2008 16:08

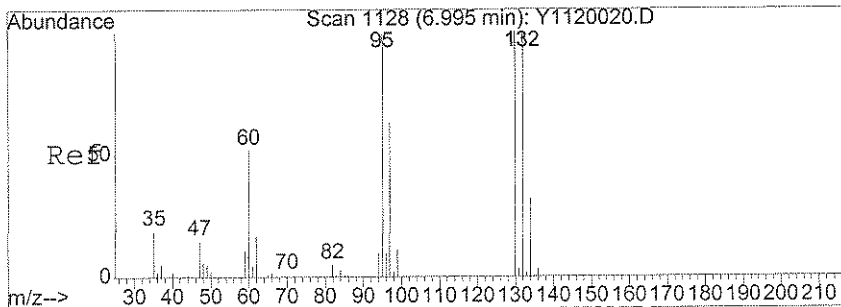
Tgt Ion: 96 Resp: 2883
 Ion Ratio Lower Upper
 96 100
 61 132.8 98.1 147.1



#34
 Chloroform
 Concen: 1.09 ug/l
 RT: 6.34 min Scan# 1017
 Delta R.T. 0.01 min
 Lab File: Y0430024.D
 Acq: 30 Apr 2008 16:08

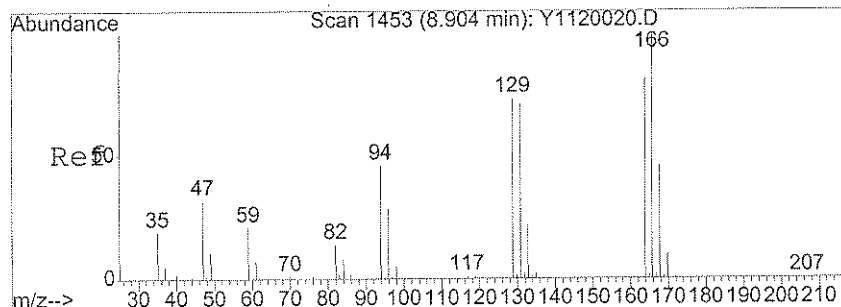
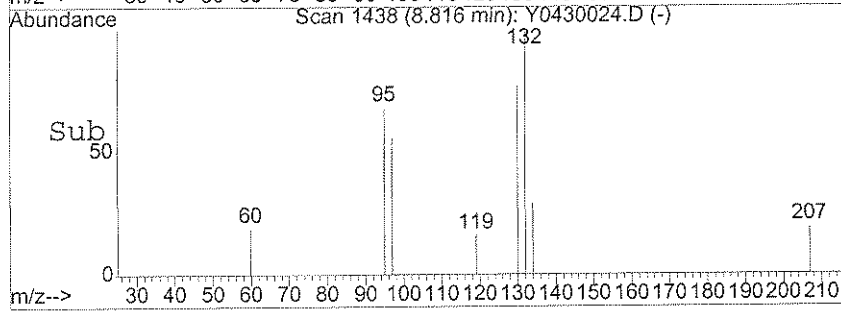
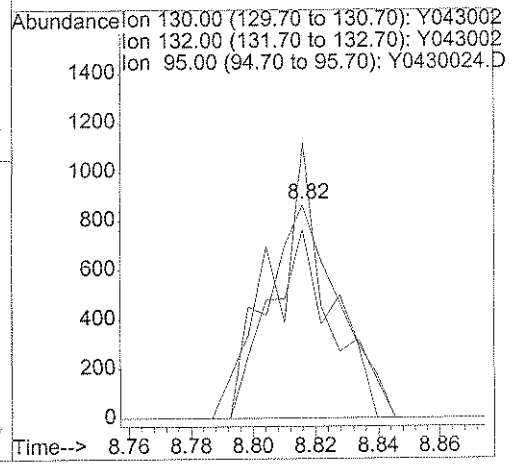
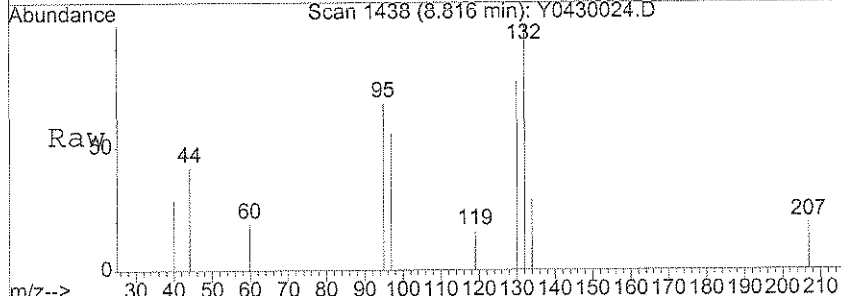
Tgt Ion: 83 Resp: 6052
 Ion Ratio Lower Upper
 83 100
 85 71.9 43.3 83.3





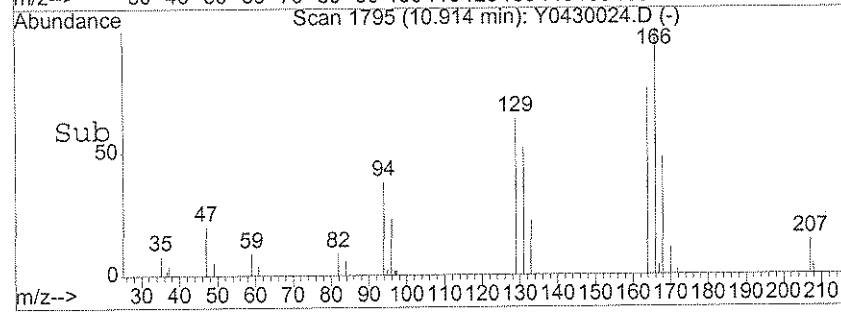
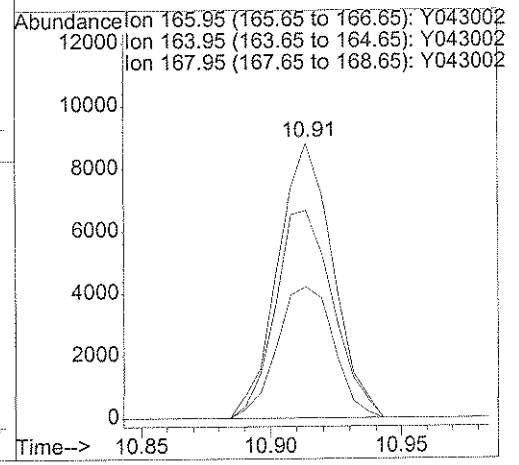
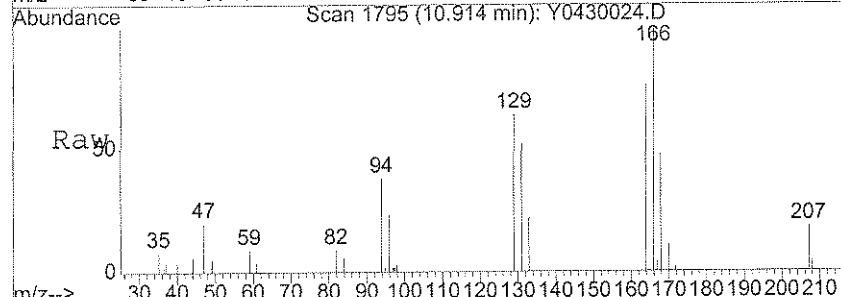
#45
 Trichloroethene
 Concen: 0.45 ug/l
 RT: 8.82 min Scan# 1438
 Delta R.T. 0.00 min
 Lab File: Y0430024.D
 Acq: 30 Apr 2008 16:08

Tgt Ion	Resp	Lower	Upper
130	100		
132	101.9	75.0	115.0
95	87.2	69.4	109.4



#60
 Tetrachloroethene
 Concen: 3.83 ug/l
 RT: 10.91 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: Y0430024.D
 Acq: 30 Apr 2008 16:08

Tgt Ion	Resp	Lower	Upper
166	100		
164	79.0	63.3	94.9
168	49.4	39.6	59.4



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-1

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-005
 Lab File ID: Y0430025.D
 Date Collected: 04/28/2008
 Date/Time Analyzed: 04/30/2008 16:32
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.47	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.35	J
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.55	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-1

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-005
 Lab File ID: Y0430025.D
 Date Collected: 04/28/2008
 Date/Time Analyzed: 04/30/2008 16:32
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-1

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-005
 Lab File ID: Y0430025.D
 Date Collected: 04/28/2008
 Date/Time Analyzed: 04/30/2008 16:32
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

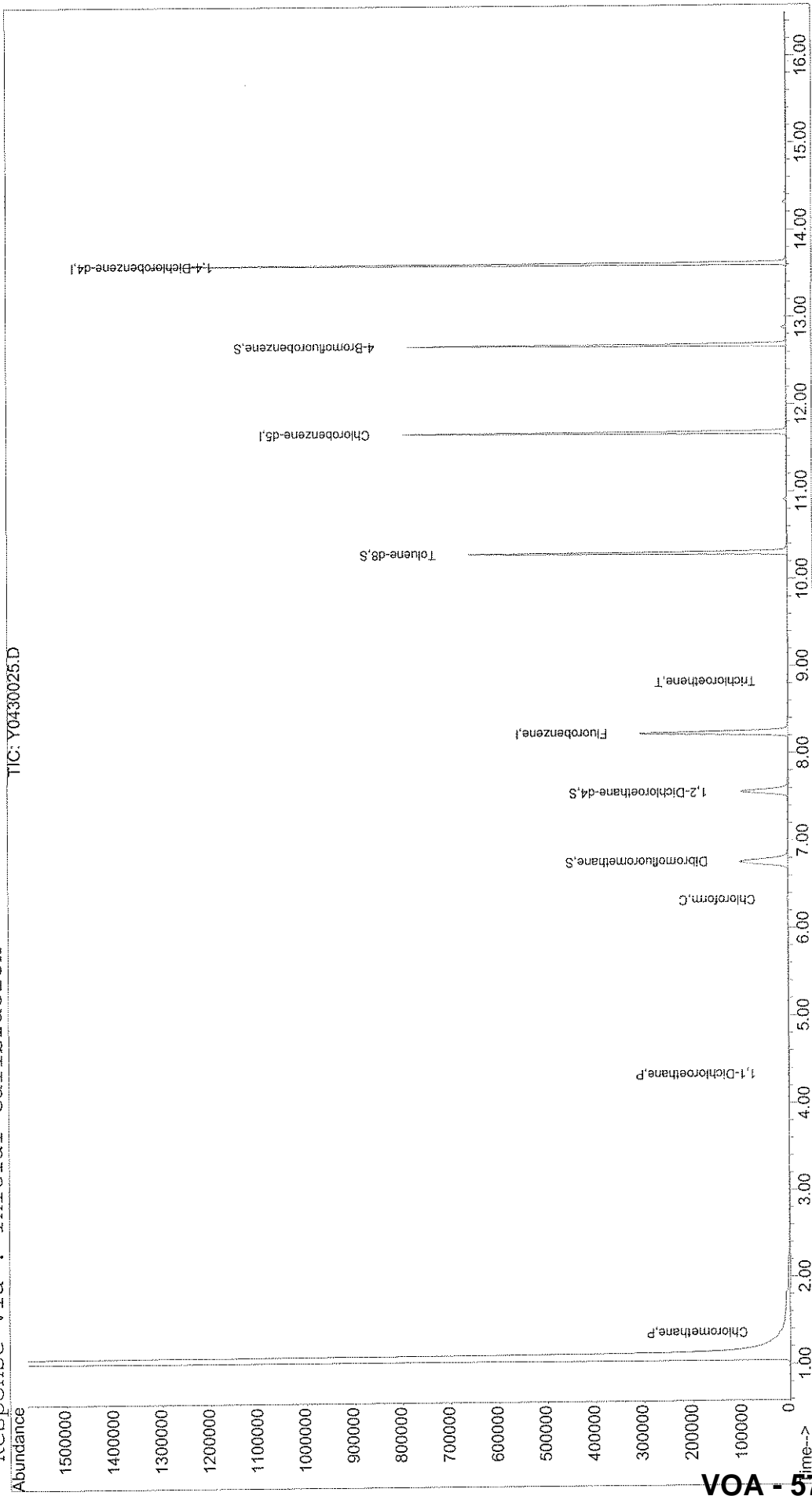
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430025.D Vial: 14
Acq On : 30 Apr 2008 16:32 Operator: DGA
Sample : JPL101-005 Inst : Yoda
Misc : #3 5mL + IS/SS(524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 5 9:58 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



VOA - 57

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430025.D
 Acq On : 30 Apr 2008 16:32
 Sample : JPL101-005
 Misc : #3 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:58 2008

Vial: 14
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	366727	50.00	ug/l	0.00	71.82%
54) Chlorobenzene-d5	11.68	82	195002	50.00	ug/l	0.00	79.72%
74) 1,4-Dichlorobenzene-d4	13.61	152	290441	50.00	ug/l	0.00	82.87%

System Monitoring Compounds

36) Dibromofluoromethane	6.77	111	133425	55.62	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	111.24%	
40) 1,2-Dichloroethane-d4	7.56	65	120788	52.72	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.44%	
55) Toluene-d8	10.30	98	389540	46.13	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	92.26%	
76) 4-Bromofluorobenzene	12.68	95	184948	48.98	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	97.96%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	2074	0.47 ug/l		90
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	2.68	96	59	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	0.00	43	0	N.D.	d	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.88	76	125	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.26	84	54	Below Cal	#	67
19) trans-1,2-Dichloroethene	3.66	96	56	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	3.71	73	107	N.D.		

(#) = qualifier out of range (m) = manual integration
 Y0430025.D Y8260W.M Mon May 05 09:58:19 2008

J. S. G. / S. G. H.
 VOA-58 Page 1

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430025.D
 Acq On : 30 Apr 2008 16:32
 Sample : JPL101-005
 Misc : #3 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:58 2008

Vial: 14
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	4.33	63	1927mS	0.35	ug/l	46
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	5.59	43	123		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.32	83	3027mS	0.55	ug/l #	53
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	7.22	75	56		N.D.	
41) Benzene	7.65	78	151		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D. d	
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	8.83	130	631	0.21	ug/l #	
46) Methylcyclohexane	9.06	83	64		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	9.51	83	87		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D. d	
56) Toluene	10.32	92	62		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D. d	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.01	43	57		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D. d	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	0.00	112	0		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D. d	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0430025.D Y8260W.M Mon May 05 09:58:19 2008

Handwritten notes:
 1/2 PQL
 8260W
 5/11/08

Handwritten signature:
 J. John

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430025.D
 Acq On : 30 Apr 2008 16:32
 Sample : JPL101-005
 Misc : #3 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:58 2008

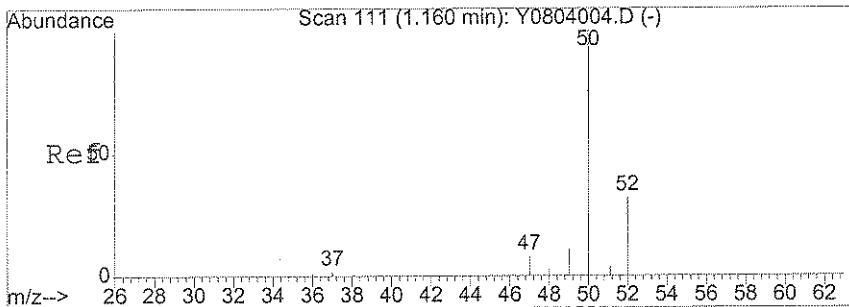
Vial: 14
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

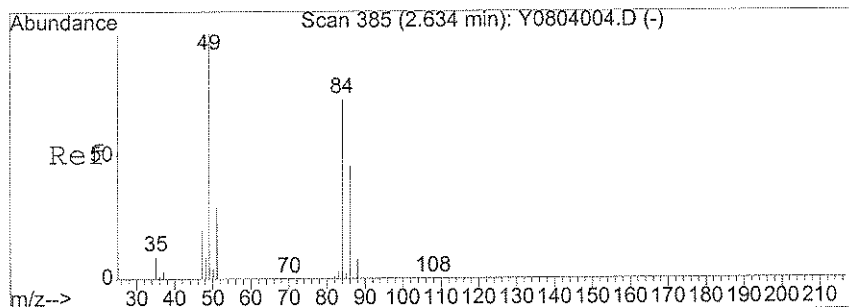
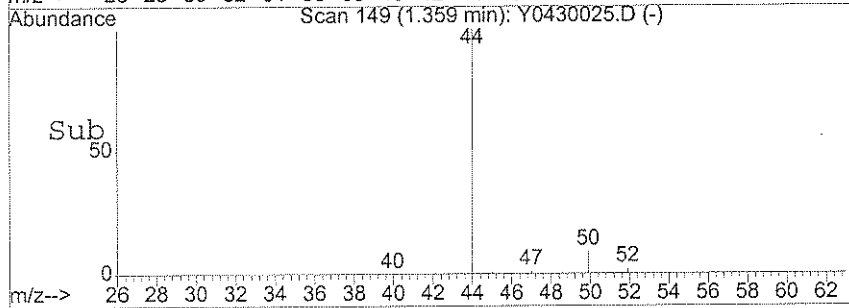
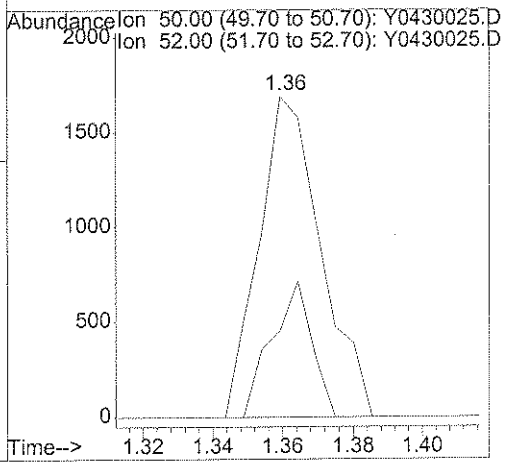
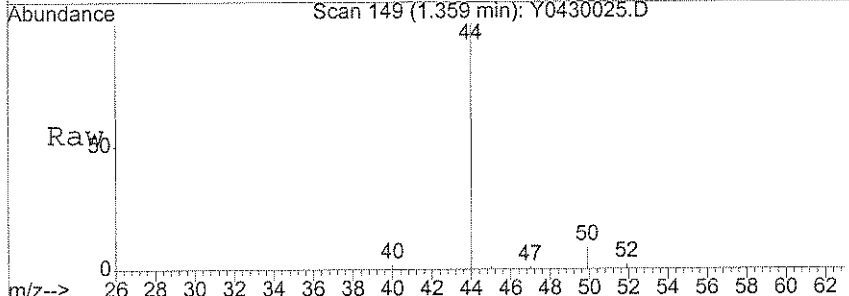
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	69		N.D.	
69) m,p-Xylene	0.00	106	0		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.69	105	144		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.69	156	69		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.71	83	76		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	12.62	120	53		N.D.	
81) 2-Chlorotoluene	12.91	91	160		N.D.	
82) 4-Chlorotoluene	12.91	91	160		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.61	146	65		N.D.	
88) 4-Isopropyltoluene	13.59	119	60		N.D.	
89) 1,4-Dichlorobenzene	13.61	146	65		N.D.	
90) 1,2-Dichlorobenzene	13.61	146	65		N.D.	
91) n-Butylbenzene	13.91	91	100		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	58		N.D.	
94) Hexachlorobutadiene	15.30	225	65		N.D.	
95) Naphthalene	15.36	128	171		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	61		N.D.	

J. Stehly



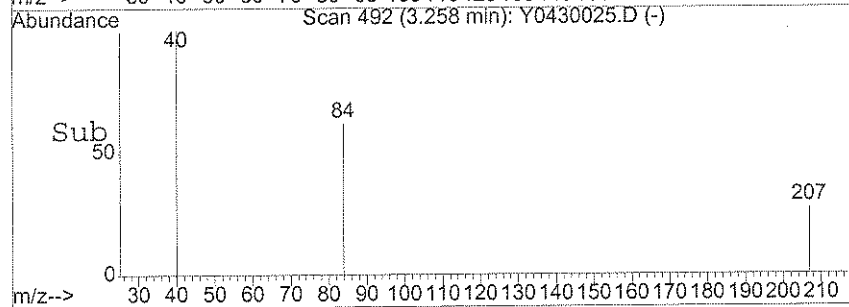
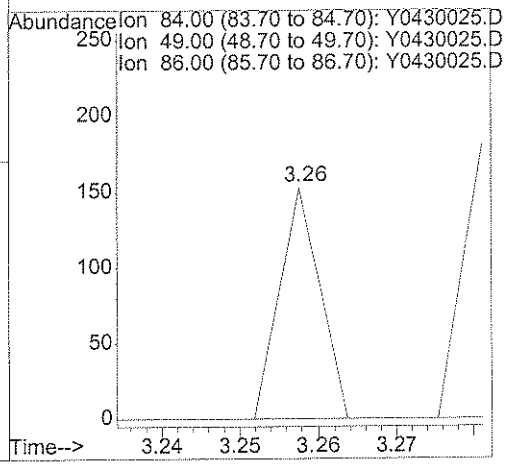
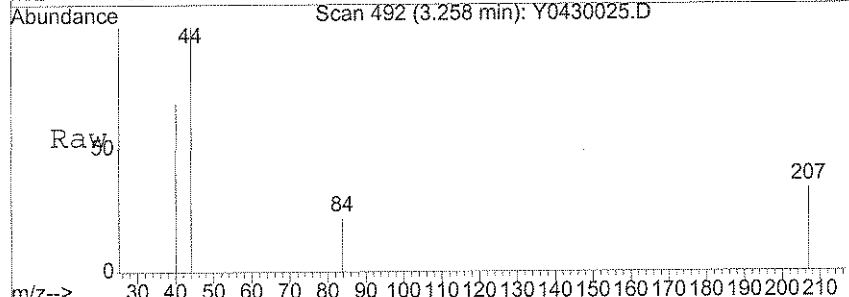
#3
 Chloromethane
 Concen: 0.47 ug/l
 RT: 1.36 min Scan# 149
 Delta R.T. -0.01 min
 Lab File: Y0430025.D
 Acq: 30 Apr 2008 16:32

Tgt Ion	Resp	Lower	Upper
50	2074		
50	100		
52	27.5	13.0	53.0



#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.26 min Scan# 492
 Delta R.T. -0.01 min
 Lab File: Y0430025.D
 Acq: 30 Apr 2008 16:32

Tgt Ion	Resp	Lower	Upper
84	54		
84	100		
49	118.5	112.5	152.5
86	0.0	39.5	79.5#



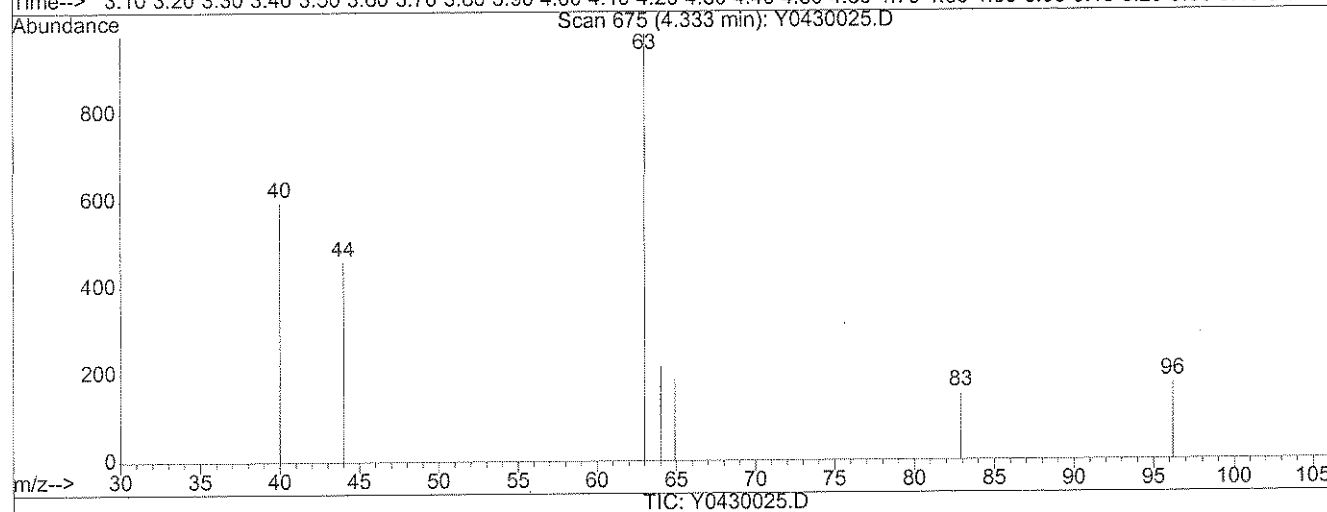
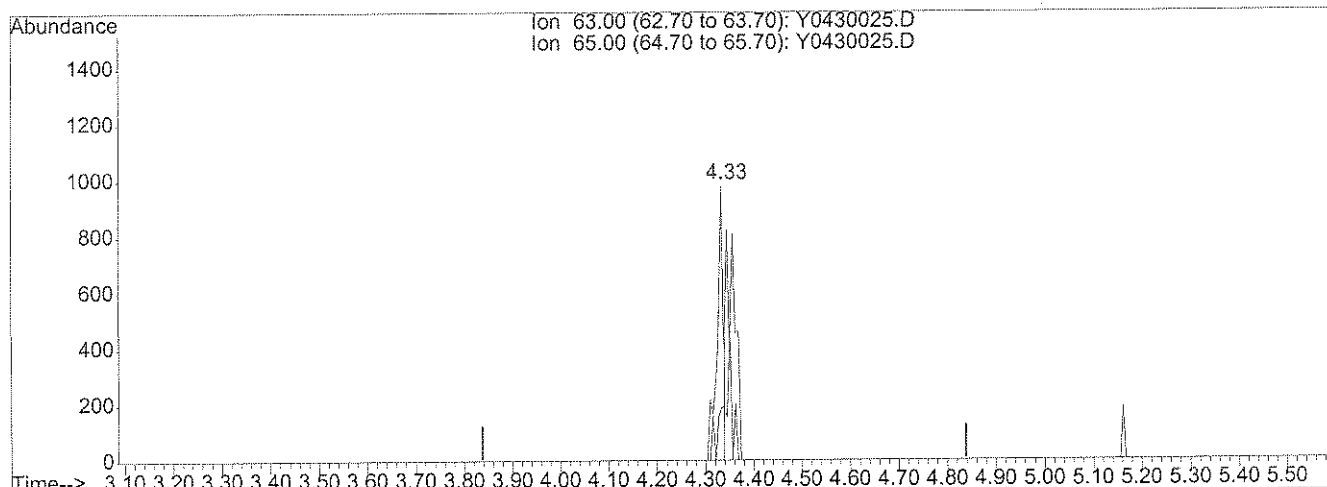
Quantitation Report (Qedit)

Data File : X:\MSVOA\YODA\043008\Y0430025.D
 Acq On : 30 Apr 2008 16:32
 Sample : JPL101-005
 Misc : #3 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:57 2008

Vial: 14
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: temp.res

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Multiple Level Calibration



(23) 1,1-Dichloroethane (P)

4.33min 0.16ug/l

response 883

Ion	Exp%	Act%
63.00	100	100
65.00	31.00	60.59#
0.00	0.00	0.00
0.00	0.00	0.00

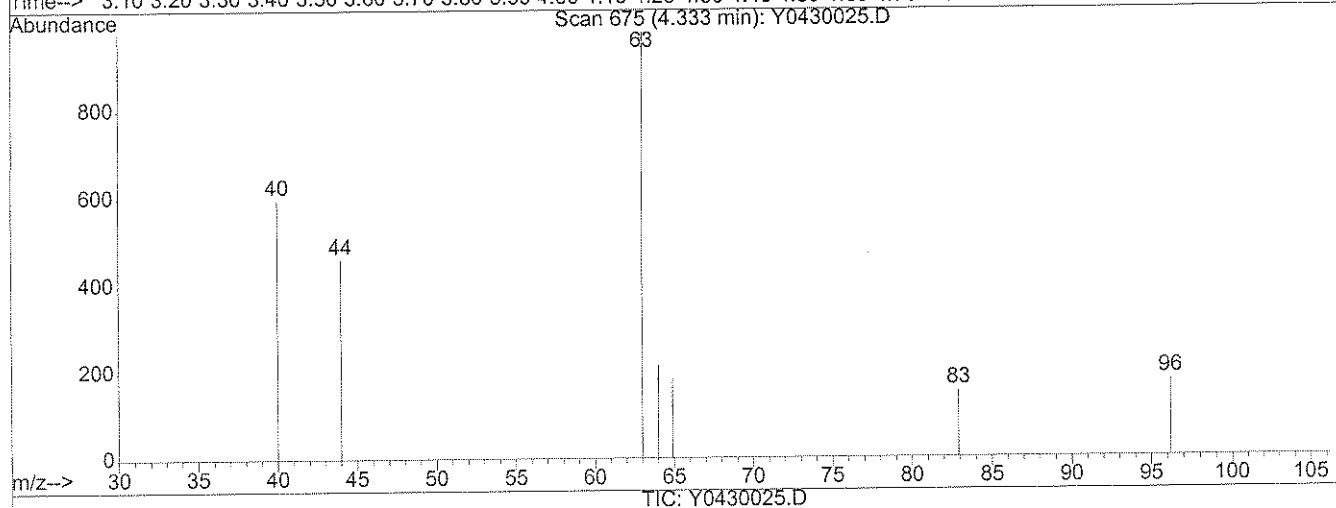
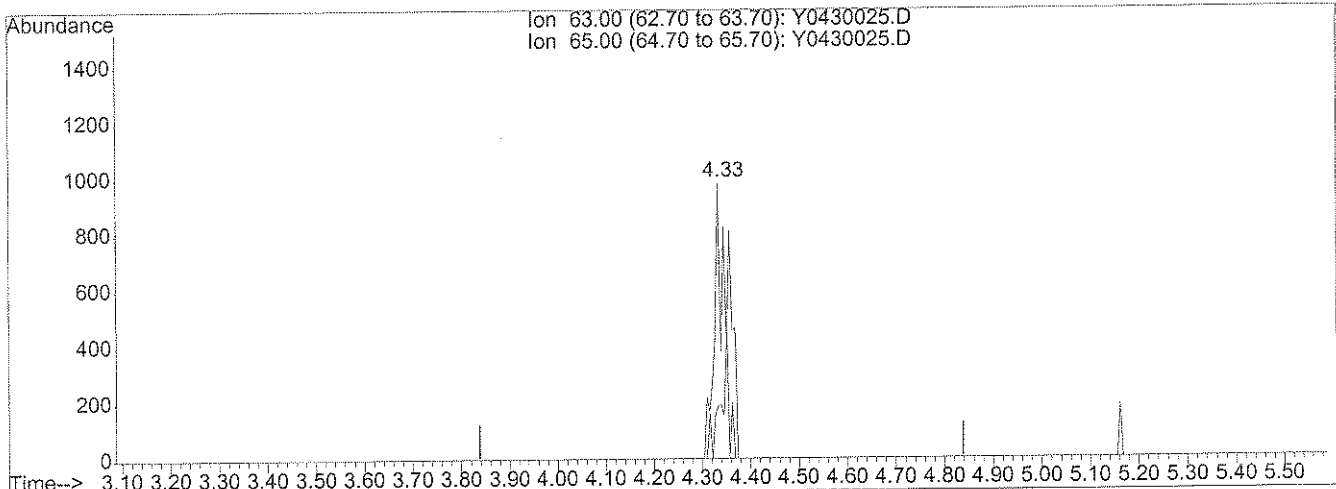
Quantitation Report (Qedit)

Data File : X:\MSVOA\YODA\043008\Y0430025.D
 Acq On : 30 Apr 2008 16:32
 Sample : JPL101-005
 Misc : #3 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:57 2008

Vial: 14
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: temp.res

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Multiple Level Calibration



(23) 1,1-Dichloroethane (P)

4.33min 0.35ug/l m

response 1927

Ion	Exp%	Act%
63.00	100	100
65.00	31.00	27.76
0.00	0.00	0.00
0.00	0.00	0.00

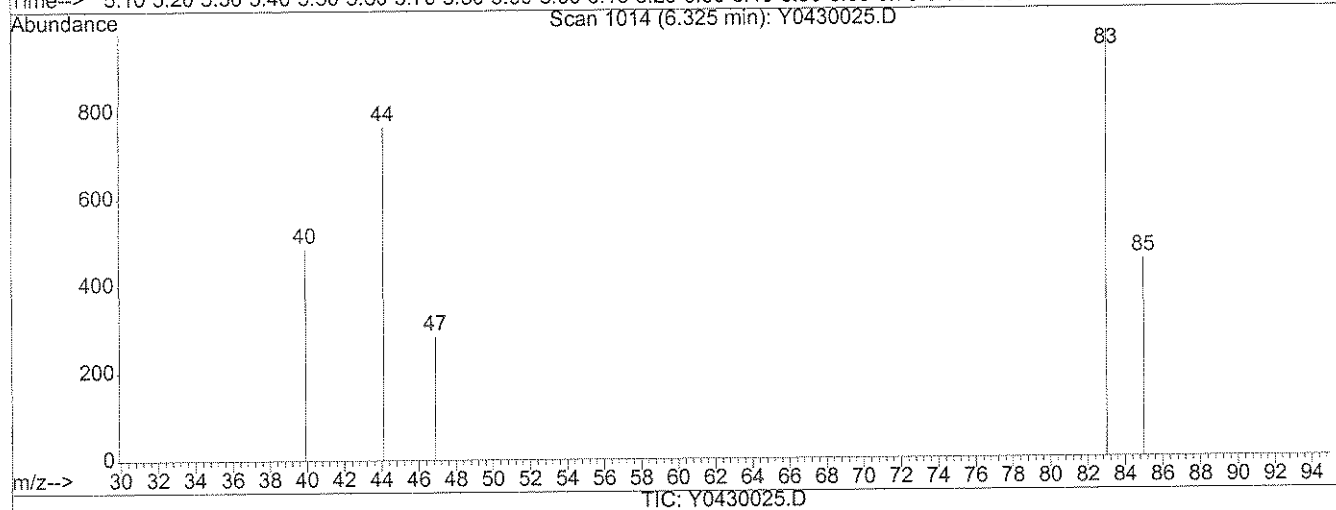
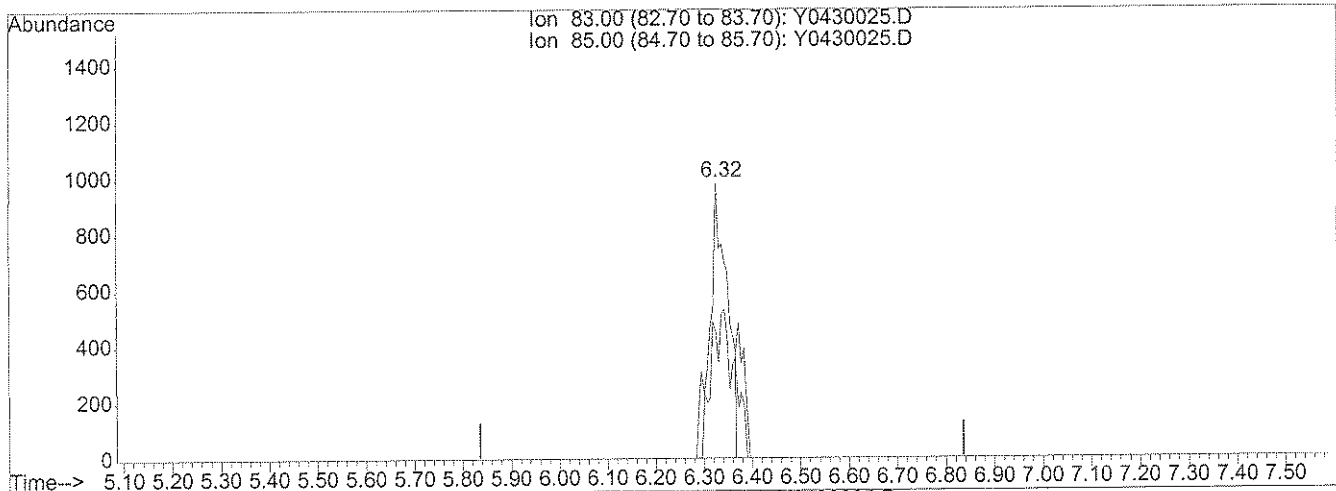
Quantitation Report (Qedit)

Data File : X:\MSVOA\YODA\043008\Y0430025.D
 Acq On : 30 Apr 2008 16:32
 Sample : JPL101-005
 Misc : #3 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:57 2008

Vial: 14
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: temp.res

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Multiple Level Calibration



(34) Chloroform (C)

6.32min 0.46ug/l

response 2543

Ion	Exp%	Act%
83.00	100	100
85.00	63.30	26.78#
0.00	0.00	0.00
0.00	0.00	0.00

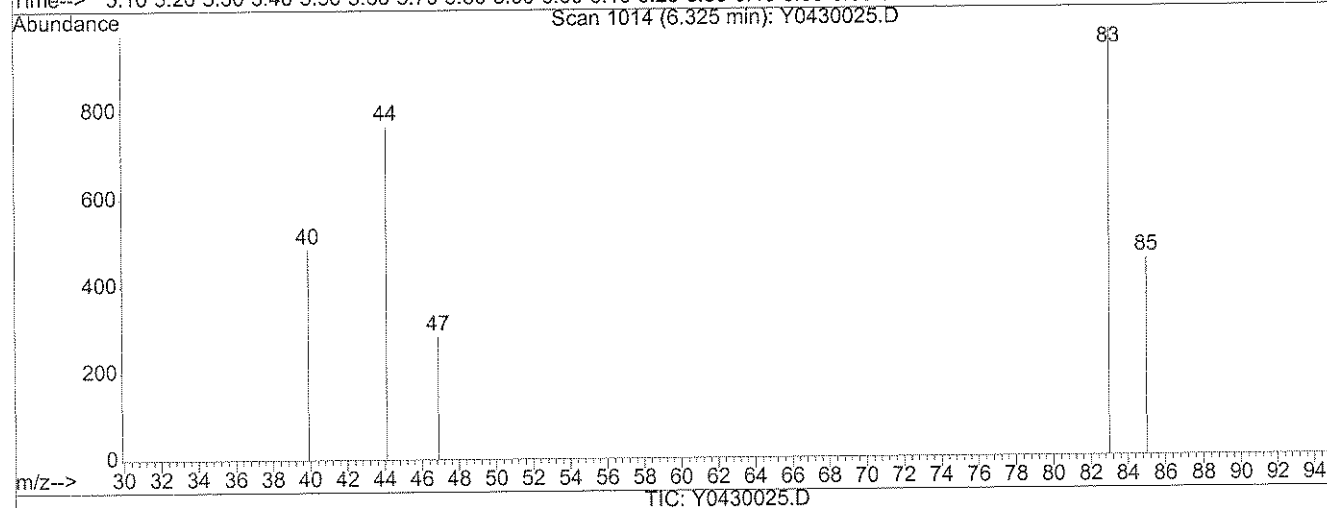
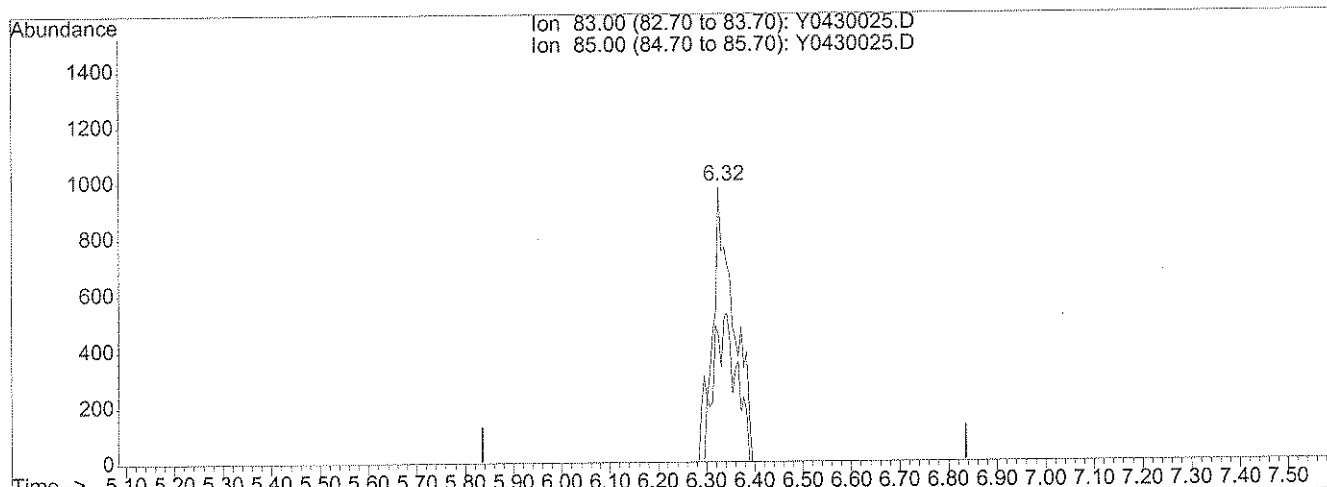
Quantitation Report (Qedit)

Data File : X:\MSVOA\YODA\043008\Y0430025.D
 Acq On : 30 Apr 2008 16:32
 Sample : JPL101-005
 Misc : #3 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:57 2008

Vial: 14
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: temp.res

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Multiple Level Calibration

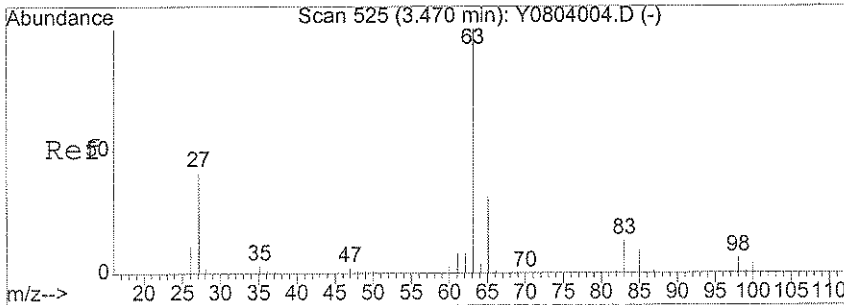


(34) Chloroform (C)

6.32min 0.55ug/l m

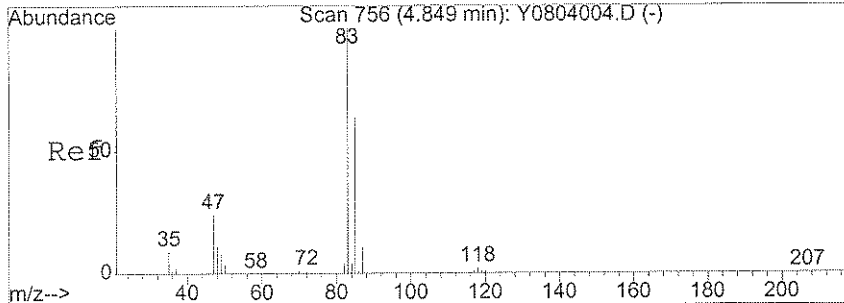
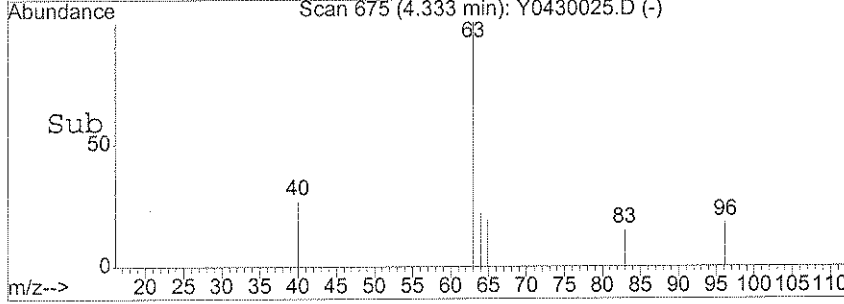
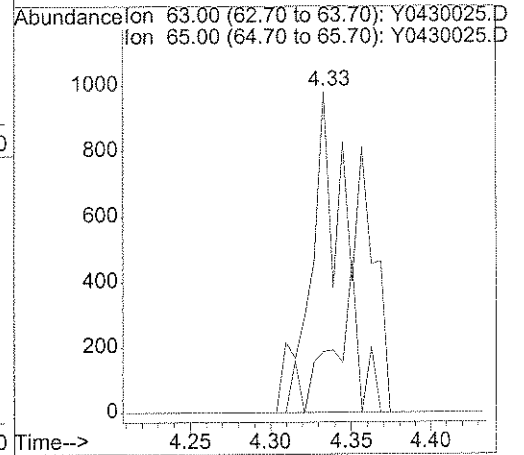
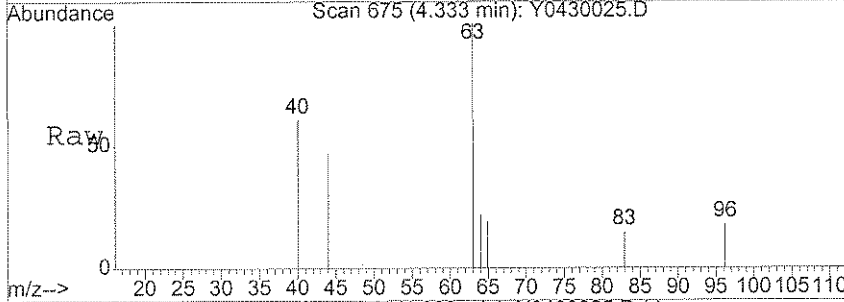
response 3027

Ion	Exp%	Act%
83.00	100	100
85.00	63.30	22.50#
0.00	0.00	0.00
0.00	0.00	0.00



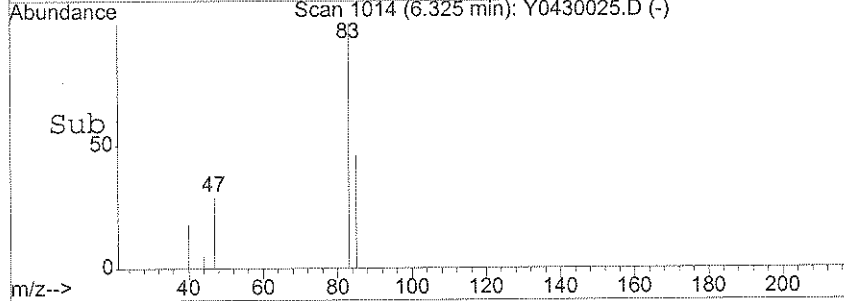
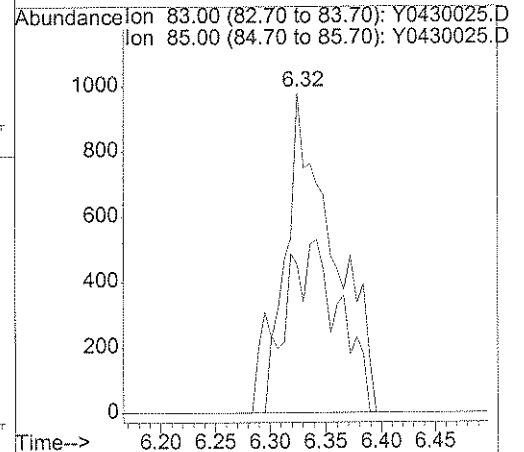
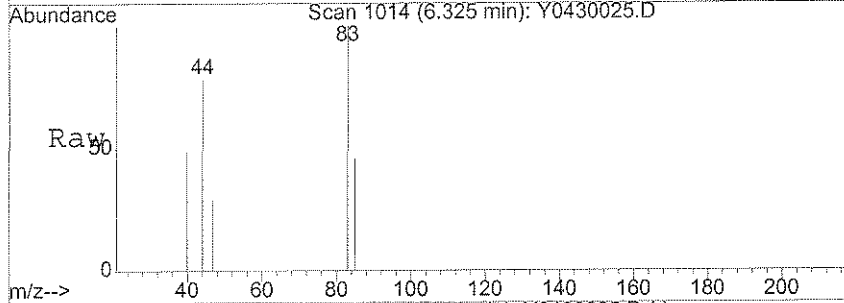
#23
 1,1-Dichloroethane
 Concen: 0.35 ug/l m
 RT: 4.33 min Scan# 675
 Delta R.T. -0.01 min
 Lab File: Y0430025.D
 Acq: 30 Apr 2008 16:32

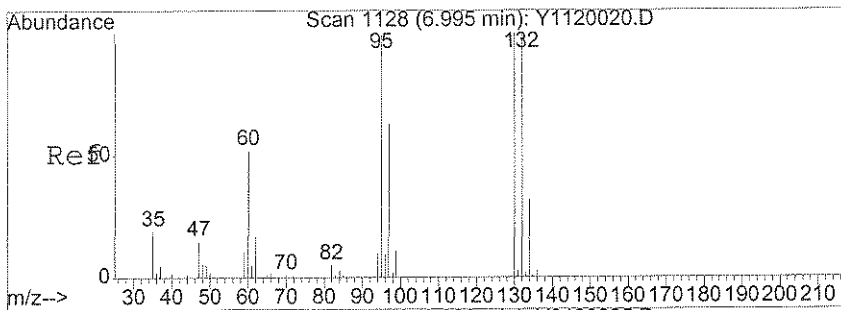
Tgt Ion: 63 Resp: 1927
 Ion Ratio Lower Upper
 63 100
 65 27.8 11.0 51.0



#34
 Chloroform
 Concen: 0.55 ug/l m
 RT: 6.32 min Scan# 1014
 Delta R.T. -0.01 min
 Lab File: Y0430025.D
 Acq: 30 Apr 2008 16:32

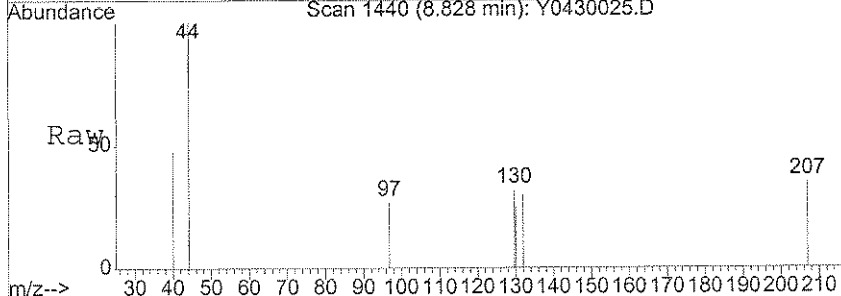
Tgt Ion: 83 Resp: 3027
 Ion Ratio Lower Upper
 83 100
 85 22.5 43.3 83.3#



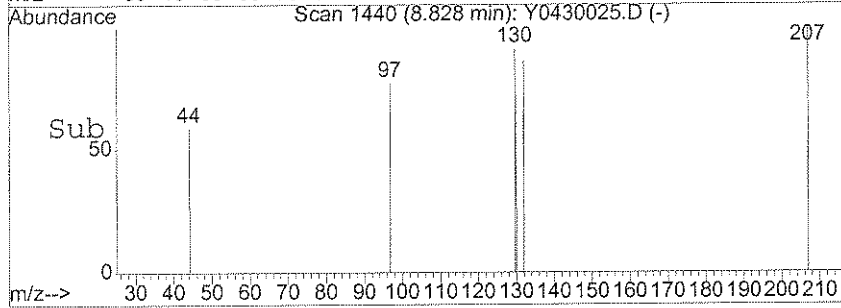
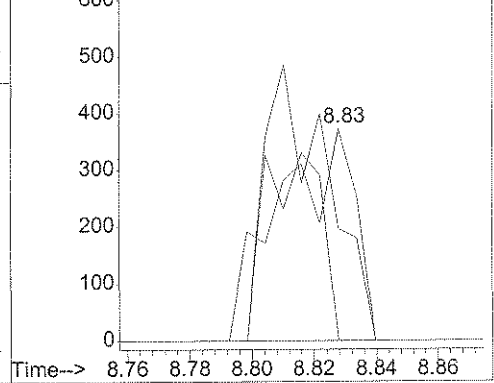


#45
 Trichloroethene
 Concen: 0.21 ug/l
 RT: 8.83 min Scan# 1440
 Delta R.T. 0.01 min
 Lab File: Y0430025.D
 Acq: 30 Apr 2008 16:32

Tgt Ion	Resp	Lower	Upper
130	631		
130	100		
132	106.0	75.0	115.0
95	65.9	69.4	109.4#



Abundance
 Ion 130.00 (129.70 to 130.70): Y043002
 Ion 132.00 (131.70 to 132.70): Y043002
 Ion 95.00 (94.70 to 95.70): Y0430025.D



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-04-4/28/08

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-006
 Lab File ID: Y0430026.D
 Date Collected: 04/28/2008
 Date/Time Analyzed: 04/30/2008 16:57
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-04-4/28/08

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-006
 Lab File ID: Y0430026.D
 Date Collected: 04/28/2008
 Date/Time Analyzed: 04/30/2008 16:57
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-04-4/28/08

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-006
 Lab File ID: Y0430026.D
 Date Collected: 04/28/2008
 Date/Time Analyzed: 04/30/2008 16:57
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

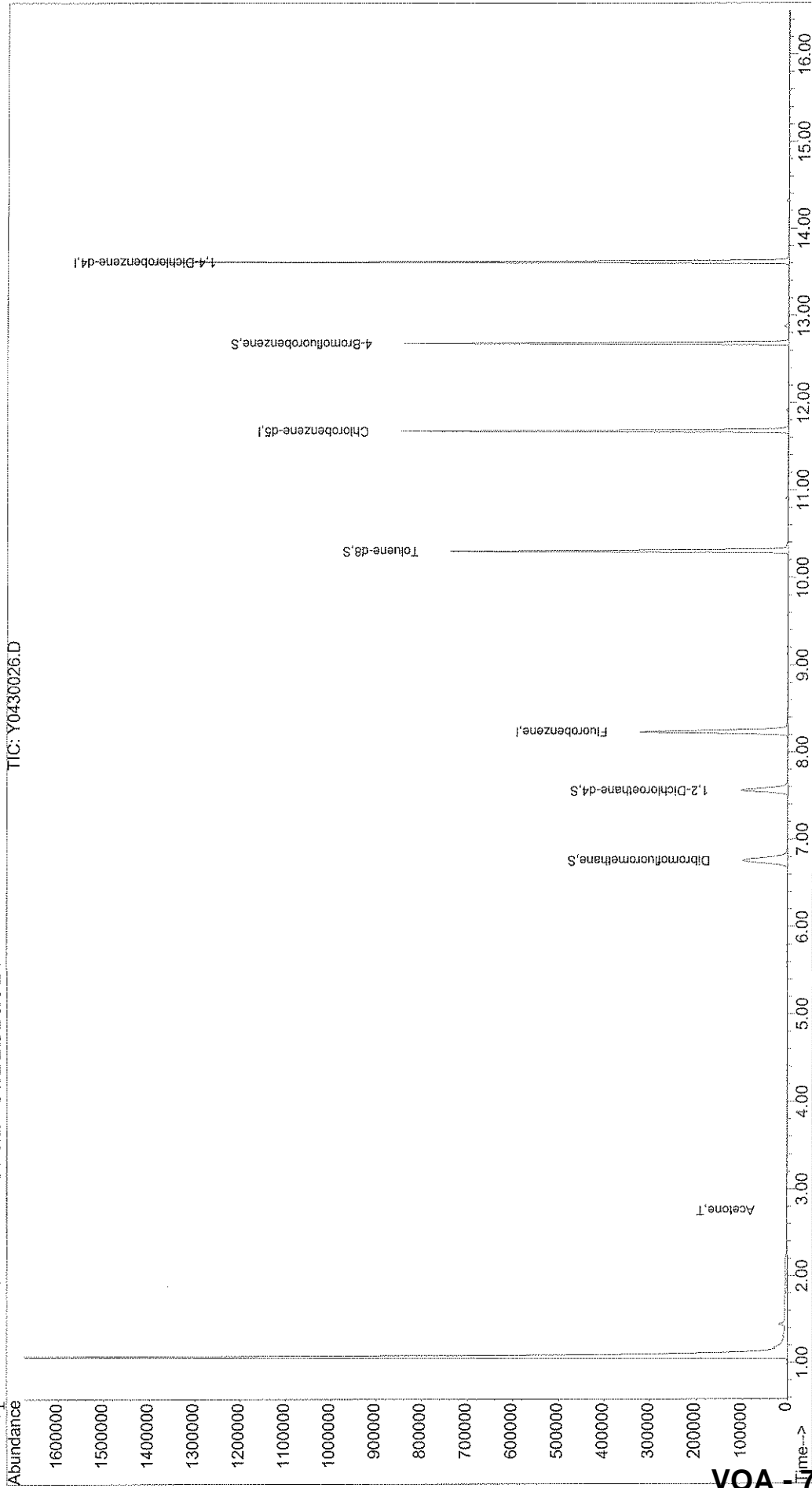
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430026.D Vial: 15
Acq On : 30 Apr 2008 16:57 Operator: DGA
Sample : JPL101-006 Inst : Yoda
Misc : #4 5mL +IS/SS(524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 5 10:05 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260 - 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



VOA-71

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430026.D
 Acq On : 30 Apr 2008 16:57
 Sample : JPL101-006
 Misc : #4 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 10:05 2008

Vial: 15
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	379500	50.00	ug/l	0.00 74.32%
54) Chlorobenzene-d5	11.68	82	212590	50.00	ug/l	0.00 86.91%
74) 1,4-Dichlorobenzene-d4	13.61	152	298369	50.00	ug/l	0.00 85.14%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	130750	52.67	ug/l	0.00
Spiked Amount	50.000	Range 85 - 115	Recovery	=	105.34%	
40) 1,2-Dichloroethane-d4	7.56	65	123937	52.27	ug/l	0.00
Spiked Amount	50.000	Range 70 - 120	Recovery	=	104.54%	
55) Toluene-d8	10.30	98	433375	47.08	ug/l	0.00
Spiked Amount	50.000	Range 85 - 120	Recovery	=	94.16%	
76) 4-Bromofluorobenzene	12.68	95	197841	51.01	ug/l	0.00
Spiked Amount	50.000	Range 75 - 120	Recovery	=	102.02%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	0.00	50	0	N.D.	d	
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.76	43	1851	2.05	ug/l #	64
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	81	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.	d	
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

(#) = qualifier out of range (m) = manual integration
 Y0430026.D Y8260W.M Mon May 05 10:05:24 2008

8/5/06/08
 VOA-72
 Page 1

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430026.D
 Acq On : 30 Apr 2008 16:57
 Sample : JPL101-006
 Misc : #4 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 10:05 2008

Vial: 15
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	5.54	77	69		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	5.61	43	55		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.33	83	457		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	6.99	56	65		N.D.	
38) Carbon Tetrachloride	7.22	117	62		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.65	78	314		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	d
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.36	92	73		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0		N.D.	
60) Tetrachloroethene	10.88	166	57		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.04	43	55		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	0.00	112	0		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0430026.D Y8260W.M Mon May 05 10:05:25 2008

J. Stroth

Quantitation Report

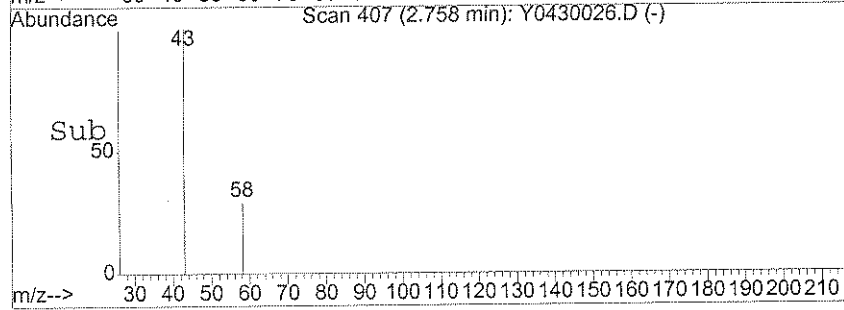
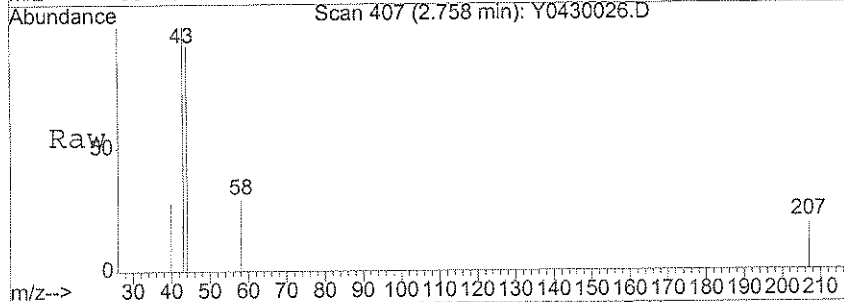
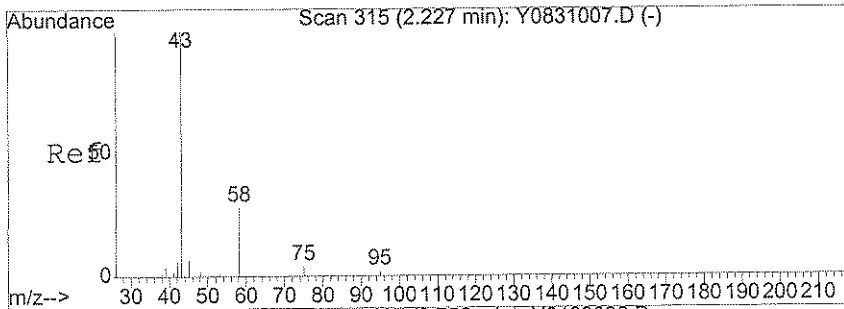
Data File : X:\MSVOA\YODA\043008\Y0430026.D
 Acq On : 30 Apr 2008 16:57
 Sample : JPL101-006
 Misc : #4 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 10:05 2008

Vial: 15
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

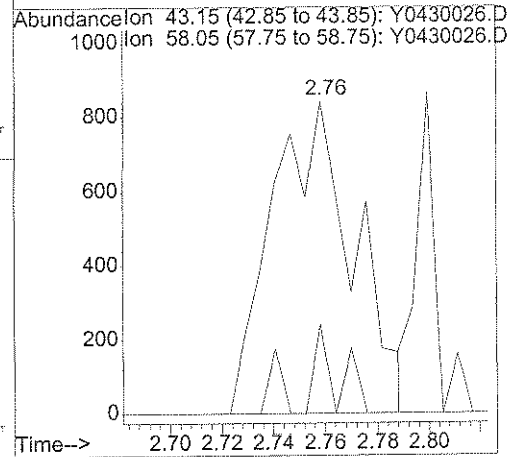
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	980		N.D.	
69) m,p-Xylene	0.00	106	0		N.D.	
70) o-xylene	12.25	106	457		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.56	105	81		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.69	156	95		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	13.04	120	71		N.D.	
81) 2-Chlorotoluene	12.89	91	54		N.D.	
82) 4-Chlorotoluene	12.89	91	54		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.61	146	72		N.D.	
88) 4-Isopropyltoluene	13.61	119	374		N.D.	
89) 1,4-Dichlorobenzene	13.62	146	63		N.D.	
90) 1,2-Dichlorobenzene	13.62	146	63		N.D.	
91) n-Butylbenzene	13.91	91	62		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	0.00	180	0		N.D.	
94) Hexachlorobutadiene	0.00	225	0		N.D.	
95) Naphthalene	15.36	128	405		N.D.	
96) 1,2,3-Trichlorobenzene	0.00	180	0		N.D.	



#11
 Acetone
 Concen: 2.05 ug/l
 RT: 2.76 min Scan# 407
 Delta R.T. 0.02 min
 Lab File: Y0430026.D
 Acq: 30 Apr 2008 16:57

Tgt Ion	Ratio	Lower	Upper	Resp
43	100			1851
58	8.0	21.3	31.9#	



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-04-4/28/08

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-007
 Lab File ID: Y0430018.D
 Date Collected: 04/28/2008
 Date/Time Analyzed: 04/30/2008 13:41
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-04-4/28/08

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-007
 Lab File ID: Y0430018.D
 Date Collected: 04/28/2008
 Date/Time Analyzed: 04/30/2008 13:41
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,1,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-04-4/28/08

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-007
 Lab File ID: Y0430018.D
 Date Collected: 04/28/2008
 Date/Time Analyzed: 04/30/2008 13:41
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

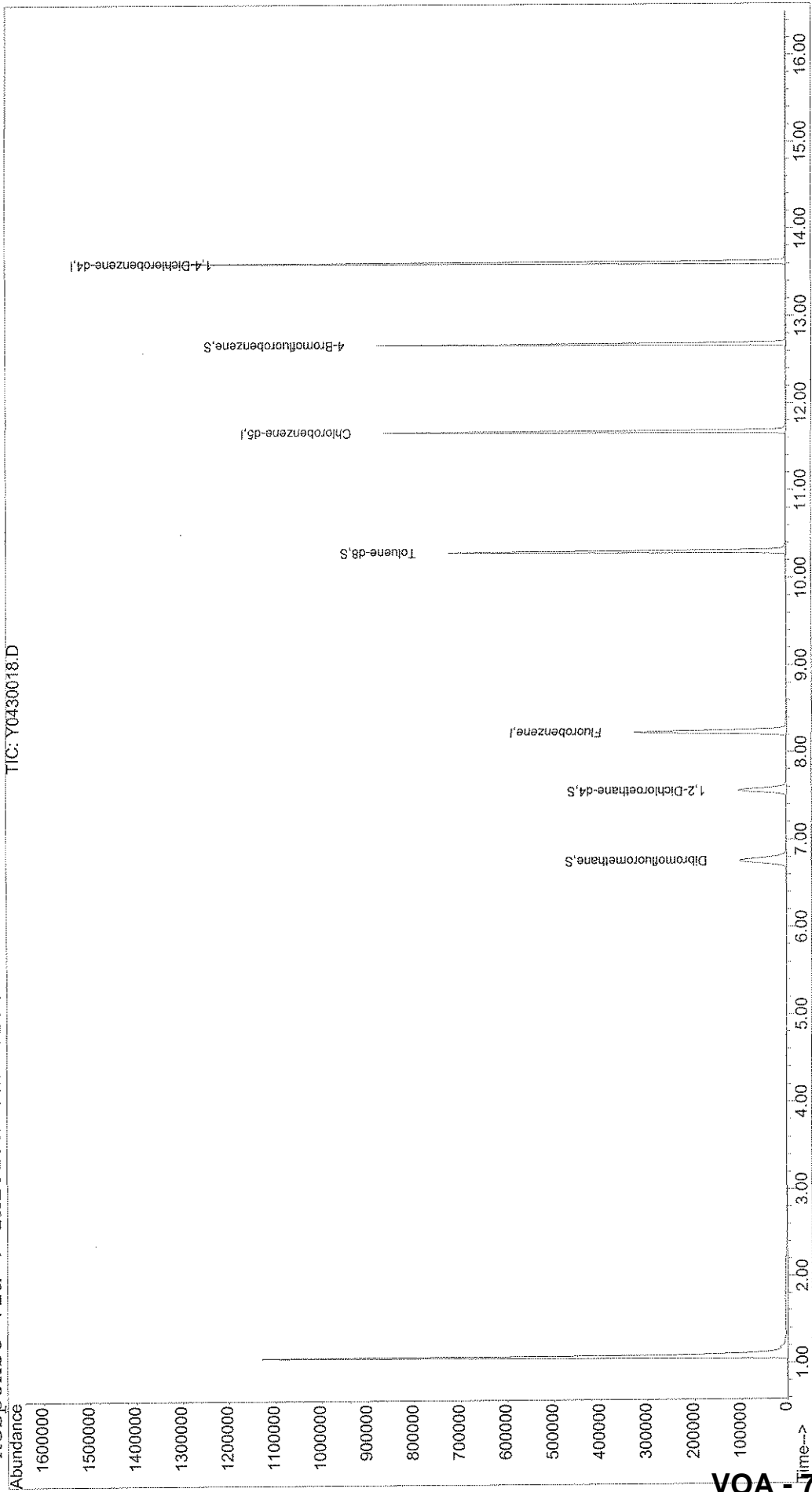
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430018.D
Acq On : 30 Apr 2008 13:41
Sample : JPL101-007
Misc : #2 5mL +IS/SS(524)
MS Integration Params: rteint.p
Quant Time: May 5 9:12 2008
Vial: 7
Operator: DGA
Inst : Yoda
Multiplr: 1.00
Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260 - 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



VOA - 79

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430018.D
 Acq On : 30 Apr 2008 13:41
 Sample : JPL101-007
 Misc : #2 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:12 2008

Vial: 7
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)

Title : VOA 8260- 5ML Calibration 5973Y

Last Update : Thu Apr 17 07:07:54 2008

Response via : Initial Calibration

DataAcq Meth : 8260

IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
						Rcv(Ar)
1) Fluorobenzene	8.23	96	388463	50.00	ug/l	0.00 76.08%
54) Chlorobenzene-d5	11.68	82	217587	50.00	ug/l	0.00 88.96%
74) 1,4-Dichlorobenzene-d4	13.61	152	302682	50.00	ug/l	0.00 86.37%

System Monitoring Compounds

36) Dibromofluoromethane	6.77	111	133040	52.35	ug/l	0.00
Spiked Amount	50.000	Range	85 - 115	Recovery	=	104.70%
40) 1,2-Dichloroethane-d4	7.56	65	123850	51.03	ug/l	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.06%
55) Toluene-d8	10.30	98	433382	46.00	ug/l	0.00
Spiked Amount	50.000	Range	85 - 120	Recovery	=	92.00%
76) 4-Bromofluorobenzene	12.68	95	201323	51.16	ug/l	0.00
Spiked Amount	50.000	Range	75 - 120	Recovery	=	102.32%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.	
3) Chloromethane	0.00	50	0	N.D.	
4) Vinyl Chloride	0.00	62	0	N.D.	
5) Bromomethane	0.00	96	0	N.D.	
6) Chloroethane	0.00	64	0	N.D.	
7) Trichlorofluoromethane	0.00	101	0	N.D.	
8) Acrolein	2.58	56	65	N.D.	
9) 1,1-Dichloroethene	0.00	96	0	N.D.	
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.	
11) Acetone	0.00	43	0	N.D.	d
12) Iodomethane	0.00	142	0	N.D.	
13) Bromoethane	0.00	108	0	N.D.	
14) Carbon Disulfide	2.89	76	124	N.D.	
15) Allyl chloride	0.00	76	0	N.D.	
16) Acetonitrile	0.00	40	0	N.D.	d
17) Methyl Acetate	3.20	43	53	N.D.	
18) Methylene Chloride	3.28	84	257	Below Cal	# 56
19) trans-1,2-Dichloroethene	3.65	96	79	N.D.	
20) Acrylonitrile	0.00	53	0	N.D.	
21) t-butyl alcohol	0.00	59	0	N.D.	
22) Methyl tert-butyl ether	0.00	73	0	N.D.	

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

Y0430018.D Y8260W.M Mon May 05 09:12:59 2008

J 5/6/08
 VOA-80 Page 1

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430018.D
 Acq On : 30 Apr 2008 13:41
 Sample : JPL101-007
 Misc : #2 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:12 2008

Vial: 7
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	4.67	45	58		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	5.63	96	54		N.D.	
30) 2-Butanone	0.00	43	0		N.D.	d
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.65	78	72		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.36	92	70		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.79	97	65		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.18	43	71		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	53		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0430018.D Y8260W.M Mon May 05 09:13:00 2008

J. J. J.

Quantitation Report

Data File : X:\MSVOA\YODA\043008\Y0430018.D
 Acq On : 30 Apr 2008 13:41
 Sample : JPL101-007
 Misc : #2 5mL +IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 5 9:12 2008

Vial: 7
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	93		N.D.	
69) m,p-Xylene	11.92	106	63		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.69	105	338		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	122		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.68	83	57		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	12.69	120	96		N.D.	
81) 2-Chlorotoluene	12.96	91	54		N.D.	
82) 4-Chlorotoluene	13.05	91	128		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	
87) 1,3-Dichlorobenzene	13.56	146	54		N.D.	
88) 4-Isopropyltoluene	13.59	119	206		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	161		N.D.	
90) 1,2-Dichlorobenzene	13.91	146	151		N.D.	
91) n-Butylbenzene	13.91	91	290		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.16	180	206		N.D.	
94) Hexachlorobutadiene	0.00	225	0		N.D.	
95) Naphthalene	15.36	128	71		N.D.	
96) 1,2,3-Trichlorobenzene	15.55	180	57		N.D.	

[Handwritten signature]

TIC DATA

SDG #JPL101

Volatiles Analysis

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-21-5

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-001
 Lab File ID: Y0430021.D
 Date Collected: 04/28/2008
 Date Analyzed: 04/30/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\043008\Y0430021.D Vial: 10
Acq On : 30 Apr 2008 14:54 Operator: DGA
Sample : JPL101-001 Inst : yoda
Misc : #3 5mL +IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0430021.D Y8260W.M Mon May 05 09:32:24 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-21-4

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL101

Run Sequence: R027729

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL101-002

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0430022.D

Level: (LOW/MED) _____

Date Collected: 04/28/2008

% Moisture: not dec. _____

Date Analyzed: 04/30/2008

GC Column: DB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\043008\Y0430022.D Vial: 11
Acq On : 30 Apr 2008 15:19 Operator: DGA
Sample : JPL101-002 Inst : yoda
Misc : #4 5mL +IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0430022.D Y8260W.M Mon May 05 09:38:54 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-21-3

Lab Name: Pace Analytical Services

SDG No.: JPL101

Matrix: (SOIL/WATER) Water

Sample wt/vol: 5.00 (g/mL) mL

Level: (LOW/MED) _____

% Moisture: not dec. _____

GC Column: DB-624 20m ID: 0.18 (mm)

Soil Extract Volume: _____ (uL)

Number TICs Found: 0

Contract: JPL Groundwater Monitorin

Run Sequence: R027729

Lab Sample ID: JPL101-003

Lab File ID: Y0430023.D

Date Collected: 04/28/2008

Date Analyzed: 04/30/2008

Dilution Factor: 1.0

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
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13				
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29				
30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\043008\Y0430023.D Vial: 12
Acq On : 30 Apr 2008 15:43 Operator: DGA
Sample : JPL101-003 Inst : yoda
Misc : #2 5mL +IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0430023.D Y8260W.M Tue May 06 11:51:07 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-21-2

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-004
 Lab File ID: Y0430024.D
 Date Collected: 04/28/2008
 Date Analyzed: 04/30/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

01	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
02					
03					
04					
05					
06					
07					
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12					
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29					
30					

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\043008\Y0430024.D Vial: 13
Acq On : 30 Apr 2008 16:08 Operator: DGA
Sample : JPL101-004 Inst : yoda
Misc : #3 5mL +IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0430024.D Y8260W.M Mon May 05 09:56:15 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-21-1

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-005
 Lab File ID: Y0430025.D
 Date Collected: 04/28/2008
 Date Analyzed: 04/30/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\043008\Y0430025.D Vial: 14
Acq On : 30 Apr 2008 16:32 Operator: DGA
Sample : JPL101-005 Inst : yoda
Misc : #3 5mL +IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0430025.D Y8260W.M Mon May 05 09:58:27 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-04-4/28/08

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: JPL101-006
 Lab File ID: Y0430026.D
 Date Collected: 04/28/2008
 Date Analyzed: 04/30/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\043008\Y0430026.D Vial: 15
Acq On : 30 Apr 2008 16:57 Operator: DGA
Sample : JPL101-006 Inst : yoda
Misc : #4 5mL +IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0430026.D Y8260W.M Mon May 05 10:05:30 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-04-4/28/08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL101

Run Sequence: R027729

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL101-007

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0430018.D

Level: (LOW/MED) _____

Date Collected: 04/28/2008

% Moisture: not dec. _____

Date Analyzed: 04/30/2008

GC Column: DB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
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04				
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\043008\Y0430018.D Vial: 7
Acq On : 30 Apr 2008 13:41 Operator: DGA
Sample : JPL101-007 Inst : yoda
Misc : #2 5mL +IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0430018.D Y8260W.M Mon May 05 09:13:09 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B043008MVOWY2

Lab Name: Pace Analytical Services
 SDG No.: JPL101
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027729
 Lab Sample ID: B043008MVOWY2
 Lab File ID: Y0430016.D
 Date Collected: _____
 Date Analyzed: 04/30/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
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Comments:

Tentatively Identified Compound (LSC) summary

Operator ID: DGA Date Acquired: 30 Apr 2008 12:51
Data File: X:\MSVOA\YODA\043008\Y0430016.D
Name: B043008MVOWY2
Misc: 5mL PFW+IS/SS(MV8-45-10)
Method: X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title: VOA 8260/524.2/624 - 5ML Calibration 5973Y
Library Searched: D:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Y0430016.D Y8260W.M								

Metals Data

JPL101

COVER PAGE-INORGANIC ANALYSES DATA PACKAGE

Lab Name: Pace Analytical Services, Inc. Contract: JPL Groundwater Monitorin
 Lab Code: PACE SDG No.: JPL101
 SOW No.: _____

Sample No.	Lab Sample ID
MW-21-5	JPL101-001
MW-21-5MS	JPL101-001MS
MW-21-5MSD	JPL101-001MSD
MW-21-4	JPL101-002
MW-21-3	JPL101-003
MW-21-2	JPL101-004
MW-21-1	JPL101-005
EB-04-4/28/08	JPL101-006
EB-04-4/28/08MS	JPL101-006MS
EB-04-4/28/08MSD	JPL101-006MSD

Were ICP interelement corrections applied? Yes/No YES
 Were ICP background corrections applied? Yes/No NO
 If yes-was raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is technically complete, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Bill Ambacher Name: Bill Ambacher
 Date: 6/17/08 Title: Inorganics Technical Director

Metals Analysis Data Sheets

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-21-5

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorinLab Code: PACESDG No.: JPL101Matrix (soil/water): WaterLab Sample ID: JPL101-001Level (low/med): LOWDate Received: 04/29/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028099
7440-70-2	Calcium	104000		N	P	R028139
7440-47-3	Chromium	1.71			M	R028099
7439-89-6	Iron	100	U		P	R028139
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	31200			P	R028139
7440-09-7	Potassium	5000	U		P	R028139
7440-23-5	Sodium	36200			P	R028139

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No
 Comment _____

Date Printed: 6/16/2008 13:48

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-21-4

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL101

Matrix (soil/water): Water

Lab Sample ID: JPL101-002

Level (low/med): LOW

Date Received: 04/29/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028099
7440-70-2	Calcium	89500		N	P	R028139
7440-47-3	Chromium	1.56			M	R028099
7439-89-6	Iron	176			P	R028139
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	26800			P	R028139
7440-09-7	Potassium	5000	U		P	R028139
7440-23-5	Sodium	30300			P	R028139

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/16/2008 13:48

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-21-3

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL101

Matrix (soil/water): Water

Lab Sample ID: JPL101-003

Level (low/med): LOW

Date Received: 04/29/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028099
7440-70-2	Calcium	143000		N	P	R028139
7440-47-3	Chromium	1.02			M	R028099
7439-89-6	Iron	100	U		P	R028139
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	43200			P	R028139
7440-09-7	Potassium	5000	U		P	R028139
7440-23-5	Sodium	45100			P	R028139

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/16/2008 13:48

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-21-2

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL101

Matrix (soil/water): Water

Lab Sample ID: JPL101-004

Level (low/med): LOW

Date Received: 04/29/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028099
7440-70-2	Calcium	144000		N	P	R028139
7440-47-3	Chromium	1.00			M	R028099
7439-89-6	Iron	100	U		P	R028139
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	45200			P	R028139
7440-09-7	Potassium	5000	U		P	R028139
7440-23-5	Sodium	71400			P	R028139

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/16/2008 13:48

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-21-1

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL101

Matrix (soil/water): Water

Lab Sample ID: JPL101-005

Level (low/med): LOW

Date Received: 04/29/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028099
7440-70-2	Calcium	143000		N	P	R028139
7440-47-3	Chromium	1.10			M	R028099
7439-89-6	Iron	100	U		P	R028139
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	45300			P	R028139
7440-09-7	Potassium	5000	U		P	R028139
7440-23-5	Sodium	41400			P	R028139

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/16/2008 13:48

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-04-4/28/08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL101

Matrix (soil/water): Water

Lab Sample ID: JPL101-006

Level (low/med): LOW

Date Received: 04/29/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028099
7440-70-2	Calcium	5000	U	N	P	R028139
7440-47-3	Chromium	1.80			M	R028099
7439-89-6	Iron	100	U		P	R028139
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	5000	U		P	R028139
7440-09-7	Potassium	5000	U		P	R028139
7440-23-5	Sodium	5000	U		P	R028139

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/16/2008 13:48

Miscellaneous Inorganic Data

JPL101

COVER PAGE-INORGANIC ANALYSES DATA PACKAGE

Lab Name: Pace Analytical Services, Inc.

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL101

SOW No.: _____

<u>Sample No.</u>
<u>MW-21-5</u>
<u>MW-21-4</u>
<u>MW-21-3</u>
<u>MW-21-2</u>
<u>MW-21-1</u>
<u>EB-04-4/28/08</u>

<u>Lab Sample ID</u>
<u>JPL101-001</u>
<u>JPL101-002</u>
<u>JPL101-003</u>
<u>JPL101-004</u>
<u>JPL101-005</u>
<u>JPL101-006</u>

Comments:

I certify that this data package is technically complete, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:



Name:

Raul J. Nino

Date:

June 3, 2008

Title:

Inorganic Supervisor

Inorganic Analysis Data Sheets

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL101
Sample Number: MW-21-5 **Date/Time Collected:** 04/28/2008 08:24
Lab Sample ID: JPL101-001 **Date/Time Received:** 04/29/2008 09:55

Method/Qbatch*: E150.1/28884 **Unit:** pH Units
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.4		0.10	0.10	04/29/2008	04/29/2008	R027694

Method/Qbatch*: E160.1/28901 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	520		2.0	2.0	04/30/2008	05/02/2008	R027706

Method/Qbatch*: E300.0/28841 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027652\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	10	7.3		2.0	0.55	04/29/2008	04/29/2008	R027652
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/29/2008	04/29/2008	R027652
Sulfate as SO4	14808-79-8	10	140		10	1.7	04/29/2008	04/29/2008	R027652
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/29/2008	04/29/2008	R027652

Method/Qbatch*: E300.0/28945 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027754\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Chloride	16887-00-6	10	79		10	0.76	05/01/2008	05/01/2008	R027754

Method/Qbatch*: E310.1/29106 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/07/2008	05/07/2008	R027885
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	190		2.0	2.0	05/07/2008	05/07/2008	R027885

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring
SDG Number: JPL101
Sample Number: MW-21-5 Date/Time Collected: 04/28/2008 08:24
Lab Sample ID: JPL101-001 Date/Time Received: 04/29/2008 09:55
Method/Qbatch*: E314.0/29567 Unit: ug/L
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	3	3.0	U	3.0	0.42	05/22/2008	05/23/2008	R028313

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL101
Sample Number: MW-21-4 **Date/Time Collected:** 04/28/2008 09:03
Lab Sample ID: JPL101-002 **Date/Time Received:** 04/29/2008 09:55

Method/Qbatch*: E150.1/28884 **Unit:** pH Units
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.2		0.10	0.10	04/29/2008	04/29/2008	R027694

Method/Qbatch*: E160.1/28901 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	460		2.0	2.0	04/30/2008	05/02/2008	R027706

Method/Qbatch*: E300.0/28841 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027652\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	10	4.9		2.0	0.55	04/29/2008	04/29/2008	R027652
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/29/2008	04/29/2008	R027652
Sulfate as SO4	14808-79-8	10	120		10	1.7	04/29/2008	04/29/2008	R027652
Chloride	16887-00-6	10	77		10	0.76	04/29/2008	04/29/2008	R027652
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/29/2008	04/29/2008	R027652

Method/Qbatch*: E310.1/29106 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/07/2008	05/07/2008	R027885
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	170		2.0	2.0	05/07/2008	05/07/2008	R027885

*QBATCH=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring
SDG Number: JPL101
Sample Number: MW-21-4 Date/Time Collected: 04/28/2008 09:03
Lab Sample ID: JPL101-002 Date/Time Received: 04/29/2008 09:55
Method/Qbatch*: E314.0/29035 Unit: ug/L
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	3	3.0	U	3.0	0.42	05/02/2008	05/05/2008	R027833

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL101
Sample Number: MW-21-3 **Date/Time Collected:** 04/28/2008 09:34
Lab Sample ID: JPL101-003 **Date/Time Received:** 04/29/2008 09:55

Method/Qbatch*: E150.1/28884 **Unit:** pH Units
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.1		0.10	0.10	04/29/2008	04/29/2008	R027694

Method/Qbatch*: E160.1/28901 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	710		2.0	2.0	04/30/2008	05/02/2008	R027706

Method/Qbatch*: E300.0/28841 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027652\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/29/2008	04/29/2008	R027652
Nitrate - N	14797-55-8	20	9.2		4.0	1.1	04/29/2008	04/30/2008	R027652
Nitrite - N	14797-65-0	20	2.0	U	2.0	0.34	04/29/2008	04/30/2008	R027652
Sulfate as SO4	14808-79-8	20	170		20	3.4	04/29/2008	04/30/2008	R027652
Chloride	16887-00-6	20	120		20	1.5	04/29/2008	04/30/2008	R027652

Method/Qbatch*: E310.1/29106 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/07/2008	05/07/2008	R027885
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	280		2.0	2.0	05/07/2008	05/07/2008	R027885

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring
SDG Number: JPL101
Sample Number: MW-21-3 Date/Time Collected: 04/28/2008 09:34
Lab Sample ID: JPL101-003 Date/Time Received: 04/29/2008 09:55
Method/Qbatch*: E314.0/29035 Unit: ug/L
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	05/02/2008	05/05/2008	R027833

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL101
Sample Number: MW-21-2 **Date/Time Collected:** 04/28/2008 10:10
Lab Sample ID: JPL101-004 **Date/Time Received:** 04/29/2008 09:55

Method/Qbatch*: E150.1/28884 **Unit:** pH Units
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	I	6.8		0.10	0.10	04/29/2008	04/29/2008	R027694

Method/Qbatch*: E160.1/28901 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	I	790		2.0	2.0	04/30/2008	05/02/2008	R027706

Method/Qbatch*: E300.0/28841 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027652\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	20	10		4.0	1.1	04/29/2008	04/30/2008	R027652
Nitrite - N	14797-65-0	20	2.0	U	2.0	0.34	04/29/2008	04/30/2008	R027652
Sulfate as SO4	14808-79-8	20	210		20	3.4	04/29/2008	04/30/2008	R027652
Chloride	16887-00-6	20	150		20	1.5	04/29/2008	04/30/2008	R027652
Orthophosphate	7723-14-0	I	1.0	U	1.0	0.33	04/29/2008	04/30/2008	R027652

Method/Qbatch*: E310.1/29106 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	I	2.0	U	2.0	2.0	05/07/2008	05/07/2008	R027885
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	I	280		2.0	2.0	05/07/2008	05/07/2008	R027885

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL101
Sample Number: MW-21-2 **Date/Time Collected:** 04/28/2008 10:10
Lab Sample ID: JPL101-004 **Date/Time Received:** 04/29/2008 09:55
Method/Qbatch*: E314.0/29567 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	05/22/2008	05/23/2008	R028313

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL101
Sample Number: MW-21-1 **Date/Time Collected:** 04/28/2008 10:50
Lab Sample ID: JPL101-005 **Date/Time Received:** 04/29/2008 09:55

Method/Qbatch*: E150.1/28884 **Unit:** pH Units
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	6.8		0.10	0.10	04/29/2008	04/29/2008	R027694

Method/Qbatch*: E160.1/28901 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	780		2.0	2.0	04/30/2008	05/02/2008	R027706

Method/Qbatch*: E300.0/28841 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027652\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	20	14		4.0	1.1	04/29/2008	04/30/2008	R027652
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/29/2008	04/30/2008	R027652
Sulfate as SO4	14808-79-8	20	210		20	3.4	04/29/2008	04/30/2008	R027652
Chloride	16887-00-6	20	130		20	1.5	04/29/2008	04/30/2008	R027652
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/29/2008	04/30/2008	R027652

Method/Qbatch*: E310.1/29106 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/07/2008	05/07/2008	R027885
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	220		2.0	2.0	05/07/2008	05/07/2008	R027885

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring
SDG Number: JPL101
Sample Number: MW-21-1RX Date/Time Collected: 04/28/2008 10:50
Lab Sample ID: JPL101-005 Date/Time Received: 04/29/2008 09:55
Method/Qbatch*: E314.0/29427 Unit: ug/L
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	05/19/2008	05/20/2008	R028197

*QBatch=QC/Preparation Batch

FORM LTL-RSR-27.0

Date Printed: 5/28/2008 9:51

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Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring
 SDG Number: JPL101
 Sample Number: EB-04-4/28/08 Date/Time Collected: 04/28/2008 10:37
 Lab Sample ID: JPL101-006 Date/Time Received: 04/29/2008 09:55

Method/Qbatch*: E150.1/28884 Unit: pH Units
 Instrument: None File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	6.3		0.10	0.10	04/29/2008	04/29/2008	R027694

Method/Qbatch*: E160.1/28901 Unit: mg/L
 Instrument: Balance (01) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	2.0	U	2.0	2.0	04/30/2008	05/02/2008	R027706

Method/Qbatch*: E300.0/28841 Unit: mg/L
 Instrument: Ion Chromatograph (2) File: R027652\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.20	U	0.20	0.055	04/29/2008	04/30/2008	R027652
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/29/2008	04/30/2008	R027652
Sulfate as SO4	14808-79-8	1	1.0	U	1.0	0.17	04/29/2008	04/30/2008	R027652
Chloride	16887-00-6	1	1.0	U	1.0	0.076	04/29/2008	04/30/2008	R027652
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/29/2008	04/30/2008	R027652

Method/Qbatch*: E310.1/29106 Unit: mg/L
 Instrument: None File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/07/2008	05/07/2008	R027885
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	2.0		2.0	2.0	05/07/2008	05/07/2008	R027885

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring
SDG Number: JPL101
Sample Number: EB-04-4/28/08 Date/Time Collected: 04/28/2008 10:37
Lab Sample ID: JPL101-006 Date/Time Received: 04/29/2008 09:55
Method/Qbatch*: E314.0/29035 Unit: ug/L
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	05/02/2008	05/05/2008	R027833

*QBatch=QC/Preparation Batch

FORM LTL-RSR-27.0

Date Printed: 5/28/2008 9:51

PACE ANALYTICAL SERVICES, INC.

SAMPLE DATA PACKAGE

BATTELLE

SDG NO.: JPL102

June 17, 2008

Pace Analytical Services, Inc.
 940 S. Harney
 Seattle, WA 98108

To: Battelle
 Project Name: JPL Groundwater
 SDG No.: JPL102
 Date of Report: June 17, 2008

SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:

Sample Receipt and Identification:

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<u>Client Sample Identification</u>	<u>Pace Sample Identification</u>	<u>Testing Analytical Request</u>
MW-19-5	JPL102-001	VOA/MET/INO
MW-19-4	JPL102-002	VOA/MET/INO
MW-19-3	JPL102-003	VOA/MET/INO
MW-19-2	JPL102-004	VOA/MET/INO
MW-19-1	JPL102-005	VOA/MET/INO
EB-05-04/29/08	JPL102-006	VOA/MET/INO
TB-05-04/29/08	JPL102-007	VOA

Analytical Request Key:

VOA = Volatiles (524.2)
 MET = Metals (200.7/200.8)
 INO = Chloride, Nitrate, Nitrite, Sulfate, Ortho phosphorus (300.0)
 Alkalinity (310.1)
 Perchlorate (314.0)
 Total Dissolved Solids (160.1)
 pH (150.1)

Summary of NELAC test accreditation

Determination	NELAC approved
150.1 pH	YES
160.1 Total Dissolved Solids	YES
200.7 K, Na, Mg, Ca, Fe	YES
200.8 As, Cr, Pb	YES
300.0 NO3, NO2, Cl, SO4, OPO4	YES
310.1M Carb./Bicarb. Alkalinity	YES
314.0 Perchlorate	YES
524.2 Volatile Organics + TICs (JPL Special list)	YES
TurMet for 200.7/200.8 TurMet	NO

Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

We assert that the results reported here relate only to the samples listed in this report.

Sample Receipt Comments:

The following discrepancies were noted in association with the receipt of these samples.

All samples submitted for pH analysis were received after the analytical holding time had expired.

GENERAL REMARKS ON ORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

Manual Integrations:

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

Holding Time Compliance:

Volatile Organic Compounds:

The holding time is 14 days calculated from the date of collection in both soil and water samples. All samples were analyzed within holding times.

Volatiles Fraction:

Quality Control Analysis:

The MS analysis performed on sample MW-19-1 yielded a recovery for dichlorodifluoromethane that fell below the control limits. Because this analyte recovered within the control limits in the MSD and the blank spike analysis, no further action was taken. All RPD values were within the control limits.

All other quality control parameters were met.

GENERAL REMARKS ON INORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

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ICP and ICP-MS Metals:

On the first timed and dated page of each ICP and ICP-MS run, the data to be reported or rejected will be tabulated for that run.

SPECIFIC REMARKS ON INORGANIC ANALYSES:

Holding Time Compliance:

Pace calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None
Chloride	28 days	None
Sulfate	28 days	None
Nitrate	48 hours	None
Nitrite	48 hours	None
Ortho phosphorus	48 hours	None
Alkalinity	14 days	None
Total Dissolved Solids	7 days	None
pH	15 minutes	All samples

ICP Metals:

The matrix spike sample percent recovery of calcium was outside of the established control limits of 70-130% for sample MW-19-1. The matrix spike duplicate sample percent recovery was within control limits. Laboratory control samples were performed and were within control limits. No corrective action was required. All relevant data have been flagged with an "N" on Forms I and V.

ICP-MS Metals:

No comments.

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Miscellaneous Inorganics:

In the run sequence R027705 for "300.0 Anions", the matrix spike and matrix spike duplicate exceeded the established lower control limits for orthophosphate. Since all of the other quality control samples were in control, no further action was taken.

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ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
 - J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
 - T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
 - E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
 - P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
 - C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
 - ~ This result has been identified as non-primary based on the analyst's professional judgment.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

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INORGANIC ANALYSES:

J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.

E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.

N Spiked sample recovery not within control limits.

* Duplicate analysis not within control limits.

Z Denotes data deemed unusable by the analyst.

CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

Pace Analytical Services, Inc.

940 S. Harney
Seattle, WA 98108

RELEASE OF DATA

Pace Analytical Services, Inc. certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,


for
Kara Godineaux
Project Manager

6/17/08
(DATE)


Harry Romberg
Quality Assurance Officer

6/17/08
(DATE)

HOW TO CONTACT US:

All Pace Analytical Services, Inc. staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

REQUESTS FOR DUPLICATE COPIES:

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Pace will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

ATTACHMENT A

Chain-of-Custody Copies

PACE ANALYTICAL SERVICES, INC. - SAMPLE CONFIRMATION LOG

Matx (SDG-#)	Sample ID	VTSR	Collected On	Client ID	150.1 pH	160.1 Total Dissolved SolidsCa, Fe	200.7 K, Na, Mg	200.8 As, Cr, Pb	300.0 NO3, NO2, Cl, SO4, PO4	310.1M Carb./Bicarb. Alkalinity	314.0 Perchlorate	524.2 Volatile Organics + TICs (JPL Special list)
WD 001	JPL102-	04/30/2008 10:00 AM	04/29/2008 07:43 AM	MW-19-5	IN	A-	IN	IN	A-	IN	IN	IN
WD 002	JPL102-	04/30/2008 10:00 AM	04/29/2008 08:18 AM	MW-19-4	IN	A-	IN	IN	A-	IN	IN	IN
WD 003	JPL102-	04/30/2008 10:00 AM	04/29/2008 08:53 AM	MW-19-3	IN	A-	IN	IN	A-	IN	IN	IN
WD 004	JPL102-	04/30/2008 10:00 AM	04/29/2008 09:25 AM	MW-19-2	IN	A-	IN	IN	A-	IN	IN	IN
WD 005	*JPL102-	04/30/2008 10:00 AM	04/29/2008 10:07 AM	MW-19-1	IN	A-	IN	IN	A-	IN	IN	IN
WD 006	JPL102-	04/30/2008 10:00 AM	04/29/2008 09:48 AM	EB-05-04/29/08	IN	A-	IN	IN	A-	IN	IN	IN
WD 007	JPL102-	04/30/2008 10:00 AM	04/29/2008 12:00 AM	TB-05-04/29/08								IN

Approved By:

On:

Notes:

Samples identified with a '*' client has requested QC for

Matrices: Water=WD

FORM LTI-PM-8.0

LEGEND: -:Started , +:Completed , IN:Logged In , P:Preparation , A:Analysis , X:Cancelled, PL:Pre-logged

Supplemental Sample Receipt Log
Pace Analytical Services, Inc.

SDG: JPL102
Cooler: AAP272
Temperatures: 1.0
COC #: 46068

Sample	Bottle #	Bottle Description	pH	Bubbles
JPL102-001	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL102-002	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL102-003	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL102-004	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL102-005	0001	1000 mL cylinder, poly	7	N/A
	0002	1000 mL cylinder, poly	7	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	40 ml OTWS, clear glass, HCl	N/C	None
	0007	40 ml OTWS, clear glass, HCl	N/C	None
	0008	40 ml OTWS, clear glass, HCl	N/C	None
	0009	500 ml cylinder, poly, HNO3	<2	N/A
	0010	500 ml cylinder, poly, HNO3	<2	N/A
JPL102-006	0001	1000 mL cylinder, poly	7	N/A

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2

Base Preserved pH pH must be greater than 12

NC Not Checked for pH

**Supplemental Sample Receipt Log
Pace Analytical Services, Inc.**

SDG: JPL102
Cooler: AAP272
Temperatures: 1.0
COC #: 46068

Sample	Bottle #	Bottle Description	pH	Bubbles
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL102-007	0001	40 ml OTWS, clear glass, HCl	N/C	None
	0002	40 ml OTWS, clear glass, HCl	N/C	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2
Base Preserved pH pH must be greater than 12
NC Not Checked for pH

Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

ATTACHMENT B

Index

Pace Analytical Services, Inc.

940 S. Harney
Seattle, WA 98108

Battelle

SDG No.: JPL102

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Completed and checked by: Judy Ecklund Date: 6/17/08

QC SUMMARY

SDG #JPL102

Volatiles Analysis

2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL102

Run Sequence: R027771

Level: (LOW/MED) NONE

CLIENT SAMPLE NUMBER	SMC1 (DCA) #	SMC2 (BFB) #	SMC3 (TOL) #	SMC4 () #	TOT OUT
(JPL102-005MSD) MW-19-1MSD	91	112	104		0
(JPL102-005MS) MW-19-1MS	92	109	105		0
(JPL102-006) EB-05-04/29/08	99	99	102		0
(JPL102-005) MW-19-1	99	100	103		0
(JPL102-004) MW-19-2	99	102	101		0
(JPL102-003) MW-19-3	99	101	103		0
(JPL102-002) MW-19-4	98	102	103		0
(JPL102-001) MW-19-5	99	98	103		0
(JPL102-007) TB-05-04/29/08	96	100	103		0
(B050208MVOWY1) B050208MVOWY1	100	102	106		0
(S050208MVOWY1) S050208MVOWY1	93	107	105		0

SMC1 (DCA) = 1,2-Dichloroethane-d4
 SMC2 (BFB) = 4-Bromofluorobenzene
 SMC3 (TOL) = Toluene-d8
 SMC4 () =

QC LIMITS
 60-140
 60-140
 60-140

Column to be used to flag recovery values
 * Values outside of contract required QC limits

3B
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin

BS Run Sequence: R027771 SDG No.: JPL102

BS Lab Sample ID: S050208MVOWY1

Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
Dichlorodifluoromethane	50.0	38.82	78		60-140
Chloromethane	50.0	35.22	70		60-140
Vinyl chloride	50.0	39.05	78		60-140
Bromomethane	50.0	40.7	81		60-140
Chloroethane	50.0	40.67	81		60-140
Trichlorofluoromethane	50.0	46.84	94		60-140
1,1-Dichloroethene	50.0	47.54	95		60-140
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.47	91		60-140
Methylene chloride	50.0	44.69	89		60-140
Methyl tert-butyl ether	50.0	40.32	81		60-140
trans-1,2-Dichloroethene	50.0	45.07	90		60-140
1,1-Dichloroethane	50.0	42.93	86		60-140
2,2-Dichloropropane	50.0	51.75	104		60-140
cis-1,2-Dichloroethene	50.0	46.74	93		60-140
2-Butanone	50.0	51.74	103		60-140
Bromochloromethane	50.0	46.37	93		60-140
Chloroform	50.0	43.16	86		60-140
1,1,1-Trichloroethane	50.0	47.84	96		60-140
Carbon tetrachloride	50.0	50.39	101		60-140
1,1-Dichloropropene	50.0	52.09	104		60-140
Benzene	50.0	46.64	93		60-140
1,2-Dichloroethane	50.0	46.37	93		60-140
Trichloroethene	50.0	49.01	98		60-140
1,2-Dichloropropane	50.0	46.34	93		60-140
Dibromomethane	50.0	46.6	93		60-140
Bromodichloromethane	50.0	50.84	102		60-140
cis-1,3-Dichloropropene	50.0	68.71	137		60-140
4-Methyl-2-pentanone	50.0	51.93	104		60-140
Toluene	50.0	54.46	109		60-140
trans-1,3-Dichloropropene	50.0	59.31	119		60-140
1,1,2-Trichloroethane	50.0	50.82	102		60-140
Tetrachloroethene	50.0	55.09	110		60-140
1,3-Dichloropropane	50.0	54.86	110		60-140
Dibromochloromethane	50.0	59.77	120		60-140

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

Spike Recovery: 0 out of 63 outside limits

COMMENTS:

Date Printed: 5/16/2008 14:40

3B
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin

BS Run Sequence: R027771 SDG No.: JPL102

BS Lab Sample ID: S050208MVOWY1

Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
1,2-Dibromoethane	50.0	55.27	111		60-140
Chlorobenzene	50.0	52.34	105		60-140
Ethylbenzene	50.0	53.21	106		60-140
1,1,1,2-Tetrachloroethane	50.0	49.1	98		60-140
m,p-Xylene	100	109.1	109		60-140
o-Xylene	50.0	52.55	105		60-140
Styrene	50.0	55.39	111		60-140
Bromoform	50.0	57.32	115		60-140
Isopropylbenzene	50.0	55.17	110		60-140
1,1,2,2-Tetrachloroethane	50.0	48.79	98		60-140
n-Propylbenzene	50.0	56.85	114		60-140
Bromobenzene	50.0	56.67	113		60-140
1,2,3-Trichloropropane	50.0	50.82	102		60-140
2-Chlorotoluene	50.0	52.76	106		60-140
1,3,5-Trimethylbenzene	50.0	51.58	103		60-140
4-Chlorotoluene	50.0	53.1	106		60-140
tert-Butylbenzene	50.0	52.62	105		60-140
1,2,4-Trimethylbenzene	50.0	52.03	104		60-140
sec-Butylbenzene	50.0	51.82	104		60-140
4-Isopropyltoluene	50.0	57.44	115		60-140
1,3-Dichlorobenzene	50.0	49.84	100		60-140
1,4-Dichlorobenzene	50.0	48.23	96		60-140
n-Butylbenzene	50.0	52.69	105		60-140
1,2-Dichlorobenzene	50.0	48.68	97		60-140
1,2-Dibromo-3-chloropropane	50.0	45.57	91		60-140
1,2,4-Trichlorobenzene	50.0	52.96	106		60-140
Hexachlorobutadiene	50.0	51.63	103		60-140
Naphthalene	50.0	52.64	105		60-140
1,2,3-Trichlorobenzene	50.0	50.03	100		60-140

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

Spike Recovery: 0 out of 63 outside limits

COMMENTS:

Date Printed: 5/16/2008 14:40

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorMS Run Sequence: R027771 MSD Run Sequence: R027771 SDG No.: JPL102MS Client Sample No.: MW-19-1MS MSD Client Sample No.: MW-19-1MSDMS Lab Sample ID: JPL102-005MS MSD Lab Sample ID: JPL102-005MSDLevel: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
Dichlorodifluoromethane	0	50.0	29.52	59 *	50.0	33.51	67	13	30	60-140
Chloromethane	0.52	50.0	30.5	60	50.0	33.34	66	9	30	60-140
Vinyl chloride	0	50.0	32.68	65	50.0	36.83	74	12	30	60-140
Bromomethane	0	50.0	36.22	72	50.0	38.96	78	7	30	60-140
Chloroethane	0	50.0	35.11	70	50.0	39.63	79	12	30	60-140
Trichlorofluoromethane	0	50.0	40.29	81	50.0	42.98	86	7	30	60-140
1,1-Dichloroethene	0	50.0	39.03	78	50.0	40.93	82	5	30	60-140
1,1,2-Trichloro-1,2,2-trifluoroethane	0	50.0	35.43	71	50.0	40.23	80	13	30	60-140
Methylene chloride	0	50.0	39.14	78	50.0	39.76	80	2	30	60-140
Methyl tert-butyl ether	0	50.0	40.92	82	50.0	43.52	87	6	30	60-140
trans-1,2-Dichloroethene	0	50.0	37.99	76	50.0	39.32	79	3	30	60-140
1,1-Dichloroethane	0	50.0	36.57	73	50.0	37.02	74	1	30	60-140
2,2-Dichloropropane	0	50.0	36.93	74	50.0	38.76	78	5	30	60-140
cis-1,2-Dichloroethene	0	50.0	39.37	79	50.0	39.88	80	1	30	60-140
2-Butanone	0	50.0	42.06	84	50.0	44.68	89	6	30	60-140
Bromochloromethane	0	50.0	40.24	80	50.0	41.03	82	2	30	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

@ This RPD or percent recovery is not flagged as an exceedance because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 0 out of 63 outside limitsSpike Recovery: 1 out of 126 outside limits

COMMENTS:

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorMS Run Sequence: R027771 MSD Run Sequence: R027771 SDG No.: JPL102MS Client Sample No.: MW-19-1MS MSD Client Sample No.: MW-19-1MSDMS Lab Sample ID: JPL102-005MS MSD Lab Sample ID: JPL102-005MSDLevel: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
Chloroform	0	50.0	37.71	75	50.0	38.1	76	1	30	60-140
1,1,1-Trichloroethane	0	50.0	40.65	81	50.0	42.63	85	5	30	60-140
Carbon tetrachloride	0	50.0	41.57	83	50.0	44.18	88	6	30	60-140
1,1-Dichloropropene	0	50.0	44.76	90	50.0	46.26	93	3	30	60-140
Benzene	0	50.0	41.36	83	50.0	42.48	85	3	30	60-140
1,2-Dichloroethane	0	50.0	39.97	80	50.0	41.25	83	3	30	60-140
Trichloroethene	0	50.0	43.86	88	50.0	44.57	89	2	30	60-140
1,2-Dichloropropane	0	50.0	41.84	84	50.0	44.22	88	6	30	60-140
Dibromomethane	0	50.0	40.69	81	50.0	42.94	86	5	30	60-140
Bromodichloromethane	0	50.0	44.92	90	50.0	45.96	92	2	30	60-140
cis-1,3-Dichloropropene	0	50.0	60.22	120	50.0	62.4	125	4	30	60-140
4-Methyl-2-pentane	0	50.0	42.2	84	50.0	44.39	89	5	30	60-140
Toluene	0	50.0	48.36	97	50.0	49.08	98	2	30	60-140
trans-1,3-Dichloropropene	0	50.0	49.84	100	50.0	51.19	102	3	30	60-140
1,1,2-Trichloroethane	0	50.0	44.7	89	50.0	45.45	91	2	30	60-140
Tetrachloroethene	0	50.0	46.29	93	50.0	48.05	96	4	30	60-140
1,3-Dichloropropane	0	50.0	48.61	97	50.0	49.61	99	2	30	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

@ This RPD or percent recovery is not flagged as an exceedence because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 0 out of 63 outside limitsSpike Recovery: 1 out of 126 outside limits

COMMENTS:

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater MonitorMS Run Sequence: R027771 MSD Run Sequence: R027771 SDG No.: JPL102MS Client Sample No.: MW-19-1MS MSD Client Sample No.: MW-19-1MSDMS Lab Sample ID: JPL102-005MS MSD Lab Sample ID: JPL102-005MSDLevel: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
Dibromochloromethane	0	50.0	51.52	103	50.0	51.9	104	1	30	60-140
1,2-Dibromoethane	0	50.0	48.5	97	50.0	49.88	100	3	30	60-140
Chlorobenzene	0	50.0	46.46	93	50.0	47.37	95	2	30	60-140
Ethylbenzene	0	50.0	46.69	93	50.0	47.64	95	2	30	60-140
1,1,1,2-Tetrachloroethane	0	50.0	42.39	85	50.0	42.3	85	0	30	60-140
m,p-Xylene	0	100	95.52	96	100	97.3	97	2	30	60-140
o-Xylene	0	50.0	44.99	90	50.0	46.05	92	2	30	60-140
Styrene	0	50.0	49.01	98	50.0	49.84	100	2	30	60-140
Bromoform	0	50.0	45.64	91	50.0	46.49	93	2	30	60-140
Isopropylbenzene	0	50.0	46.39	93	50.0	47.97	96	3	30	60-140
1,1,2,2-Tetrachloroethane	0	50.0	40.38	81	50.0	43.6	87	8	30	60-140
n-Propylbenzene	0	50.0	48.95	98	50.0	51.65	103	5	30	60-140
Bromobenzene	0	50.0	51.6	103	50.0	52.85	106	2	30	60-140
1,2,3-Trichloropropane	0	50.0	39.44	79	50.0	42.08	84	7	30	60-140
2-Chlorotoluene	0	50.0	46.53	93	50.0	48.77	98	5	30	60-140
1,3,5-Trimethylbenzene	0	50.0	44.71	89	50.0	46.71	93	4	30	60-140
4-Chlorotoluene	0	50.0	47.94	96	50.0	49.71	99	4	30	60-140
tert-Butylbenzene	0	50.0	46.23	92	50.0	48.63	97	5	30	60-140
1,2,4-Trimethylbenzene	0	50.0	46.02	92	50.0	47.12	94	2	30	60-140
sec-Butylbenzene	0	50.0	44.3	89	50.0	46.5	93	5	30	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

@ This RPD or percent recovery is not flagged as an exceedance because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 0 out of 63 outside limitsSpike Recovery: 1 out of 126 outside limits

COMMENTS:

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorMS Run Sequence: R027771 MSD Run Sequence: R027771 SDG No.: JPL102MS Client Sample No.: MW-19-1MS MSD Client Sample No.: MW-19-1MSDMS Lab Sample ID: JPL102-005MS MSD Lab Sample ID: JPL102-005MSDLevel: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
4-Isopropyltoluene	0	50.0	47.99	96	50.0	50.78	102	6	30	60-140
1,3-Dichlorobenzene	0	50.0	44.16	88	50.0	45.99	92	4	30	60-140
1,4-Dichlorobenzene	0	50.0	43.52	87	50.0	44.69	89	3	30	60-140
n-Butylbenzene	0	50.0	42.92	86	50.0	45.3	91	5	30	60-140
1,2-Dichlorobenzene	0	50.0	41.85	84	50.0	44.36	89	6	30	60-140
1,2-Dibromo-3-chloropropane	0	50.0	35.98	72	50.0	37.19	74	3	30	60-140
1,2,4-Trichlorobenzene	0	50.0	43.08	86	50.0	45.29	91	5	30	60-140
Hexachlorobutadiene	0	50.0	40.87	82	50.0	44.89	90	9	30	60-140
Naphthalene	0	50.0	41.06	82	50.0	45.02	90	9	30	60-140
1,2,3-Trichlorobenzene	0	50.0	40.14	80	50.0	43.56	87	8	30	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

© This RPD or percent recovery is not flagged as an exceedence because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 0 out of 63 outside limitsSpike Recovery: 1 out of 126 outside limits

COMMENTS:

4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B050208MVOWY1

Lab Name Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL102

Lab File ID: Y0502008.D

Lab Sample ID: B050208MVOWY1

Date Analyzed: 05/02/2008

Time Analyzed: 09:23

GC Column: DB-624 20m ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: 5973Y

Matrix: Water

	CLIENT SAMPLE NO.	LAB SAMPLE ID.	LAB FILE ID.	DATE ANALYZED	TIME ANALYZED	RUN SEQUENCE
01	S050208MVOWY1	S050208MVOWY1	Y0502005.D	05/02/2008	08:07	R027771
02	TB-05-04/29/08	JPL102-007	Y0502010.D	05/02/2008	10:13	R027771
03	MW-19-5	JPL102-001	Y0502011.D	05/02/2008	10:37	R027771
04	MW-19-4	JPL102-002	Y0502012.D	05/02/2008	11:02	R027771
05	MW-19-3	JPL102-003	Y0502013.D	05/02/2008	11:27	R027771
06	MW-19-2	JPL102-004	Y0502014.D	05/02/2008	11:52	R027771
07	MW-19-1	JPL102-005	Y0502015.D	05/02/2008	12:16	R027771
08	EB-05-04/29/08	JPL102-006	Y0502016.D	05/02/2008	12:41	R027771
09	MW-19-1MS	JPL102-005MS	Y0502029.D	05/02/2008	18:03	R027771
10	MW-19-1MSD	JPL102-005MSD	Y0502030.D	05/02/2008	18:27	R027771
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COMMENTS: _____

VOA - 9

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

BFBY5

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 Run Sequence: CAL1310 SDG No.: JPL102
 Lab File ID: Y0414036.D BFB Injection Date: 04/14/2008
 Instrument ID: 5973Y BFB Injection Time: 21:43
 GC Column DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	17.8
75	30% to 60% of mass 95	48.1
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	6.8
173	less than 2% of mass 174	0 () 1
174	greater than 50% of mass 95	99.4
175	5% to 9% of mass 17	7.2 () 1
176	greater than 95%, but less than 101% of mass 174	95.4 () 1
177	5% to 9% of mass 176	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 SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0.3	VSTD0.3	Y0414037.D	04/14/2008	22:08
02	VSTD0.5	VSTD0.5	Y0414038.D	04/14/2008	22:33
03	VSTD001	VSTD001	Y0414039.D	04/14/2008	22:58
04	VSTD005	VSTD005	Y0414040.D	04/14/2008	23:22
05	VSTD010	VSTD010	Y0414041.D	04/14/2008	23:47
06	VSTD050	VSTD050	Y0414042.D	04/15/2008	00:12
07	VSTD100	VSTD100	Y0414043.D	04/15/2008	00:36
08	VSTD200	VSTD200	Y0414044.D	04/15/2008	01:01
09					
10					
11					
12					
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16					
17					
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19					
20					
21					
22					

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

BFBY1

Lab Name: Pace Analytical Services

Contract: _____

Run Sequence: R027335SDG No.: NESDI3 JPL102 04/15/19/08Lab File ID: Y0415011.DBFB Injection Date: 04/15/2008Instrument ID: 5973YBFB Injection Time: 09:55GC Column DB-624 20mID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	18
75	30% to 60% of mass 95	48.6
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	6.6
173	less than 2% of mass 174	0()1
174	greater than 50% of mass 95	94.8
175	5% to 9% of mass 17	8.3()1
176	greater than 95%, but less than 101% of mass 174	99.1()1
177	5% to 9% of mass 176	6.1()2

1 - Value is %mass 174

2 - Value is %mass 176

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	S041508MVOWY2	S041508MVOWY2	Y0415015.D	04/15/2008	11:39
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

BFBY1

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 Run Sequence: R027771 SDG No.: JPL102
 Lab File ID: Y0502003.D BFB Injection Date: 05/02/2008
 Instrument ID: 5973Y BFB Injection Time: 07:10
 GC Column DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	18.5
75	30% to 60% of mass 95	47.3
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	6.5
173	less than 2% of mass 174	0 () 1
174	greater than 50% of mass 95	101.4
175	5% to 9% of mass 17	8.4 () 1
176	greater than 95%, but less than 101% of mass 174	100.5 () 1
177	5% to 9% of mass 176	6.5 () 2

1 - Value is %mass 174

2 - Value is %mass 176

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050Y1	VSTD050Y1	Y0502004.D	05/02/2008	07:34
02	S050208MVOWY1	S050208MVOWY1	Y0502005.D	05/02/2008	08:07
03	B050208MVOWY1	B050208MVOWY1	Y0502008.D	05/02/2008	09:23
04	TB-05-04/29/08	JPL102-007	Y0502010.D	05/02/2008	10:13
05	MW-19-5	JPL102-001	Y0502011.D	05/02/2008	10:37
06	MW-19-4	JPL102-002	Y0502012.D	05/02/2008	11:02
07	MW-19-3	JPL102-003	Y0502013.D	05/02/2008	11:27
08	MW-19-2	JPL102-004	Y0502014.D	05/02/2008	11:52
09	MW-19-1	JPL102-005	Y0502015.D	05/02/2008	12:16
10	EB-05-04/29/08	JPL102-006	Y0502016.D	05/02/2008	12:41
11	MW-19-1MS	JPL102-005MS	Y0502029.D	05/02/2008	18:03
12	MW-19-1MSD	JPL102-005MSD	Y0502030.D	05/02/2008	18:27
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitoring
 Run Sequence: R027771 SDG No.: JPL102
 Client Sample No.(VSTD050##): VSTD050Y1 Date Analyzed: 05/02/2008
 Lab File ID (Standard): Y0502004.D Time Analyzed: 07:34
 Instrument ID: 5973Y Heated Purge: (Y/N) N
 GC Column: DB-624 20m ID: 0.18 (mm)

	IS1 (FBZ) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	507702	8.23	233931	11.68	304094	13.61
UPPER LIMIT	1015404	8.28	467862	11.73	608188	13.66
LOWER LIMIT	253851	8.18	116965.5	11.63	152047	13.56
CLIENT SAMPLE NO.						
01 S050208MVOWY1	527312	8.23	242619	11.68	318689	13.61
02 B050208MVOWY1	501429	8.23	209883	11.68	299792	13.61
03 TB-05-04/29/08	501090	8.23	218470	11.68	310852	13.61
04 MW-19-5	460410	8.23	199851	11.68	295883	13.61
05 MW-19-4	515365	8.23	233521	11.68	320567	13.61
06 MW-19-3	475043	8.23	214274	11.68	300872	13.61
07 MW-19-2	444201	8.23	204740	11.68	286041	13.61
08 MW-19-1	457751	8.23	200912	11.68	290230	13.61
09 EB-05-04/29/08	479154	8.23	211207	11.68	302183	13.61
10 MW-19-1MS	603986	8.23	285802	11.68	361433	13.61
11 MW-19-1MSD	540161	8.23	262747	11.68	328217	13.61
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (FBZ) = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

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

SAMPLE DATA

SDG # JPL102

Volatiles Analysis

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-5

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-001
 Lab File ID: Y0502011.D
 Date Collected: 04/29/2008
 Date/Time Analyzed: 05/02/2008 10:37
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.62	
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-5

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL102

Run Sequence: R027771

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL102-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0502011.D

Level: (LOW/MED) _____

Date Collected: 04/29/2008

% Moisture: not dec. _____

Date/Time Analyzed: 05/02/2008 10:37

GC Column: DB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: _____(uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	1.2	
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-5

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-001
 Lab File ID: Y0502011.D
 Date Collected: 04/29/2008
 Date/Time Analyzed: 05/02/2008 10:37
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

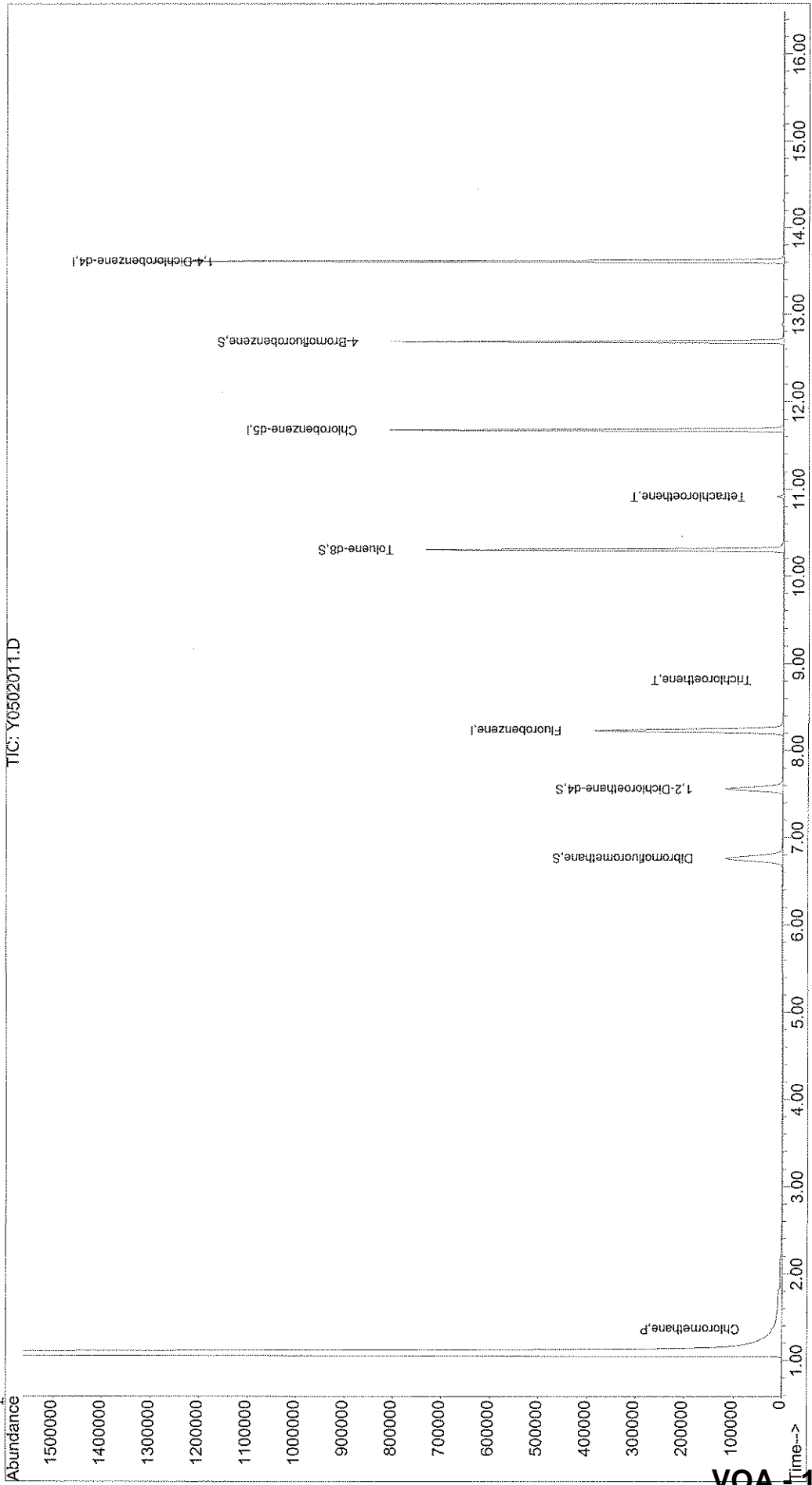
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502011.D Vial: 7
Acq On : 2 May 2008 10:37 Operator: LPM
Sample : JPL102-001 Inst : Yoda
Misc : #3 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 5 10:58 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



VOA 18

Data File : X:\MSVOA\YODA\050208\Y0502011.D
Acq On : 2 May 2008 10:37
Sample : JPL102-001
Misc : #3 5mL+IS/SS(MV8-45-10) (524)
MS Integration Params: rteint.p
Quant Time: May 5 10:58 2008

Vial: 7
Operator: LPM
Inst : yoda
Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration
DataAcq Meth : 8260
IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	460410	50.00	ug/l	0.00	90.17%
54) Chlorobenzene-d5	11.68	82	199851	50.00	ug/l	0.00	81.71%
74) 1,4-Dichlorobenzene-d4	13.61	152	295883	50.00	ug/l	0.00	84.43%

System Monitoring Compounds

36) Dibromofluoromethane	6.77	111	155203	51.53	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	103.06%	
40) 1,2-Dichloroethane-d4	7.56	65	142641	49.59	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.18%	
55) Toluene-d8	10.30	98	444214	51.33	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	102.66%	
76) 4-Bromofluorobenzene	12.68	95	188498	49.01	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	98.02%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	3476	0.62	ug/l	99
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	0.00	43	0	N.D.	d	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	1445	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	3.11	43	55	N.D.		
18) Methylene Chloride	3.26	84	85	Below Cal		92
19) trans-1,2-Dichloroethene	3.65	96	61	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

5/6/08 LPM

(#) = qualifier out of range (m) = manual integration
Y0502011.D Y8260W.M Mon May 05 10:58:21 2008

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502011.D
 Acq On : 2 May 2008 10:37
 Sample : JPL102-001
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 10:58 2008

Vial: 7
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	4.34	63	209		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	5.71	43	56		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.32	83	843		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.65	78	165		N.D.	
42) 1,2-Dichloroethane	7.61	62	62		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	8.81	130	653	0.18	ug/l	#
46) Methylcyclohexane	9.06	83	187		N.D.	
47) 1,2-Dichloropropene	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.36	92	207		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.61	97	177		N.D.	
60) Tetrachloroethene	10.91	166	3764	1.15	ug/l	96
61) 1,3-Dichloropropene	0.00	76	0		N.D.	
62) 2-Hexanone	11.13	43	142		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	d
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.71	112	140		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

Handwritten: 1/2 PQL
 5/19/08

Handwritten signature: stefos

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

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502011.D
 Acq On : 2 May 2008 10:37
 Sample : JPL102-001
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 10:58 2008

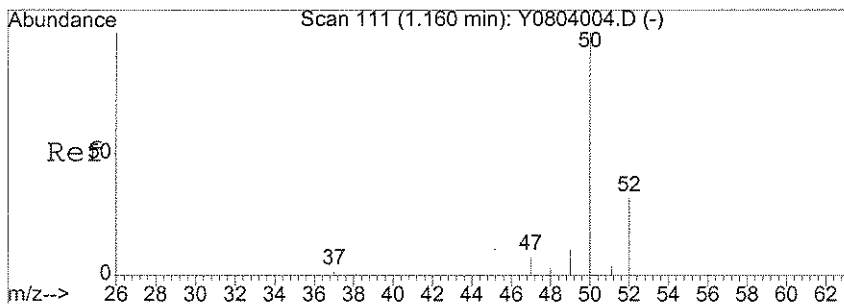
Vial: 7
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

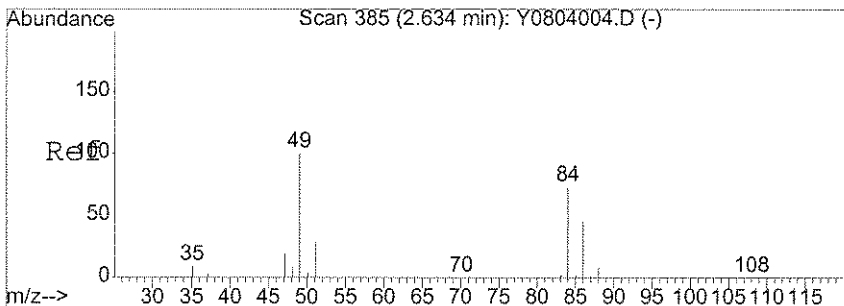
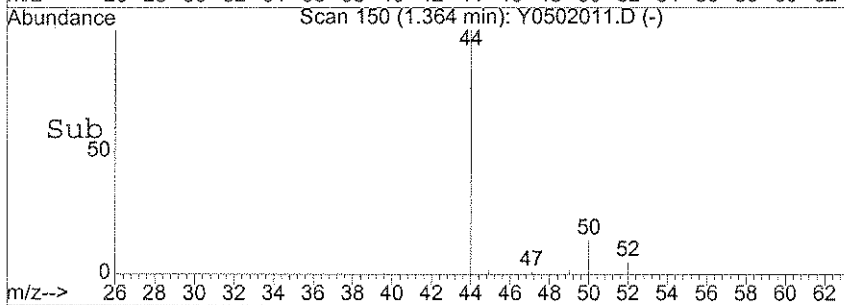
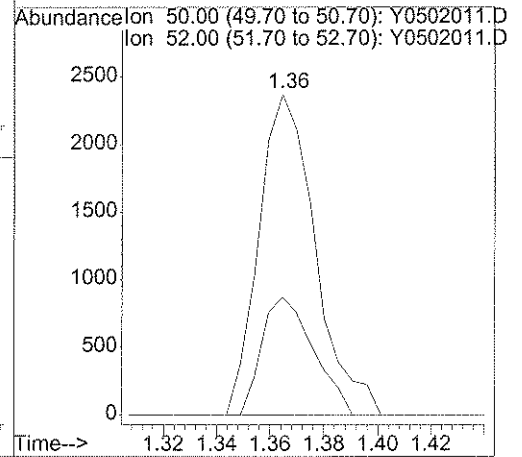
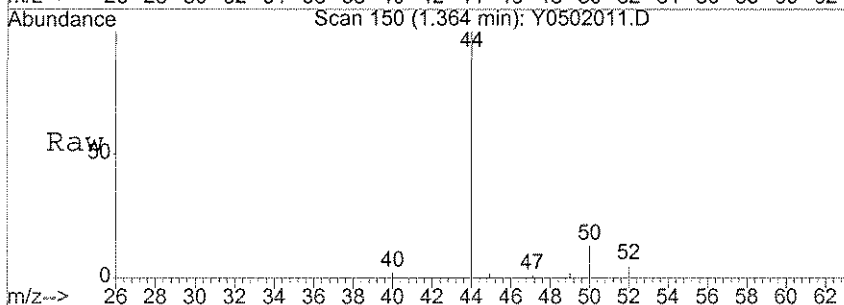
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	298		N.D.	
69) m,p-Xylene	11.91	106	130		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	12.26	104	154		N.D.	
72) Bromoform	12.70	173	102		N.D.	
73) Isopropylbenzene	12.55	105	173		N.D.	
75) trans-1,4-Dichloro-2-buten	12.69	53	79		N.D.	
77) Bromobenzene	0.00	156	0		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.68	83	65		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	13.03	120	60		N.D.	
81) 2-Chlorotoluene	12.96	91	63		N.D.	
82) 4-Chlorotoluene	13.05	91	208		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	462		N.D.	
88) 4-Isopropyltoluene	13.59	119	418		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	388		N.D.	
90) 1,2-Dichlorobenzene	13.93	146	266		N.D.	
91) n-Butylbenzene	13.91	91	544		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.33	75	62		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	513		N.D.	
94) Hexachlorobutadiene	15.30	225	404		N.D.	
95) Naphthalene	15.36	128	422		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	677		N.D.	

4/6/08



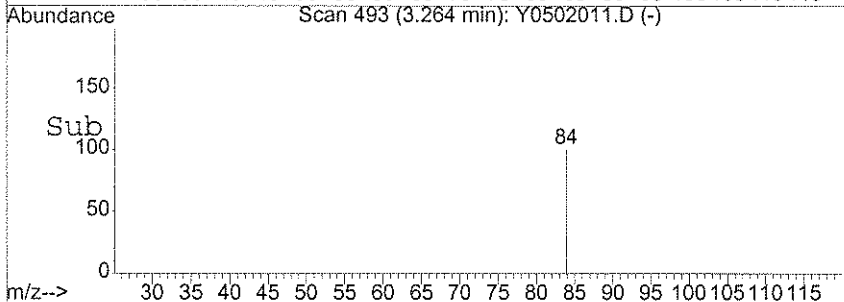
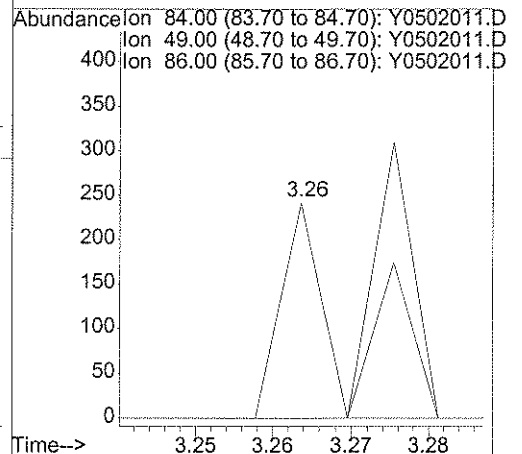
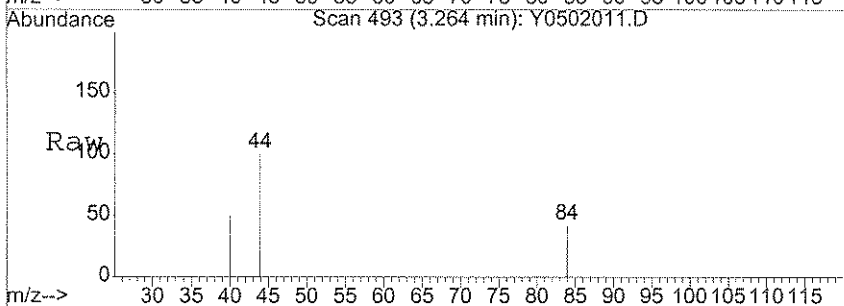
#3
 Chloromethane
 Concen: 0.62 ug/l
 RT: 1.36 min Scan# 150
 Delta R.T. -0.00 min
 Lab File: Y0502011.D
 Acq: 2 May 2008 10:37

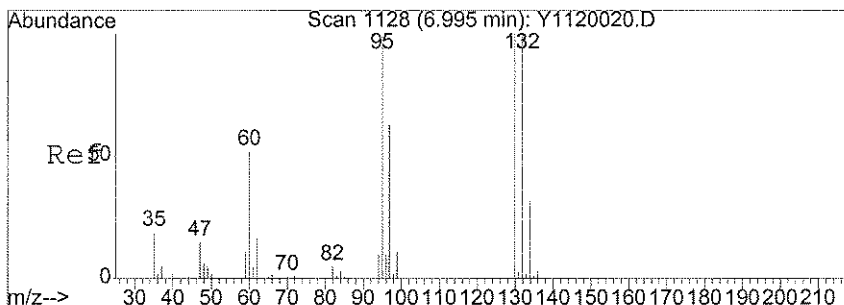
Tgt Ion	Resp	Lower	Upper
50	3476		
52	33.6	13.0	53.0



#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.26 min Scan# 493
 Delta R.T. -0.01 min
 Lab File: Y0502011.D
 Acq: 2 May 2008 10:37

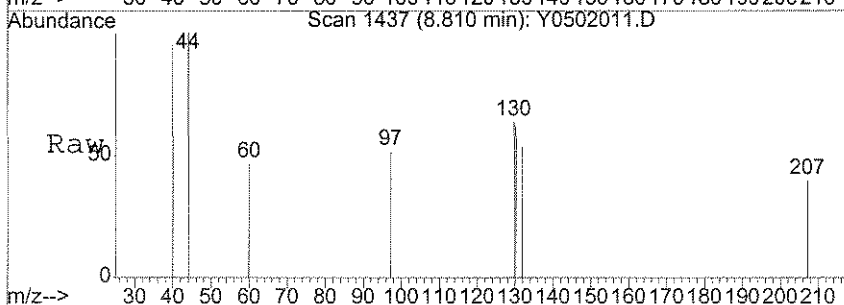
Tgt Ion	Resp	Lower	Upper
84	85		
84	100		
49	128.2	112.5	152.5
86	71.8	39.5	79.5



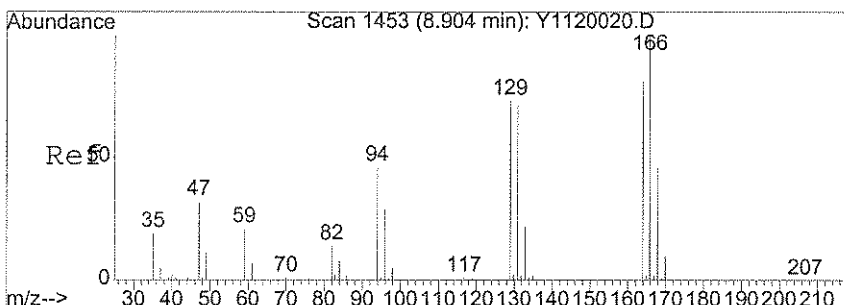
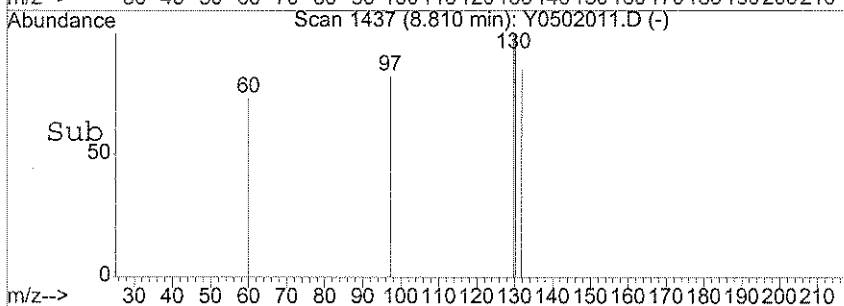
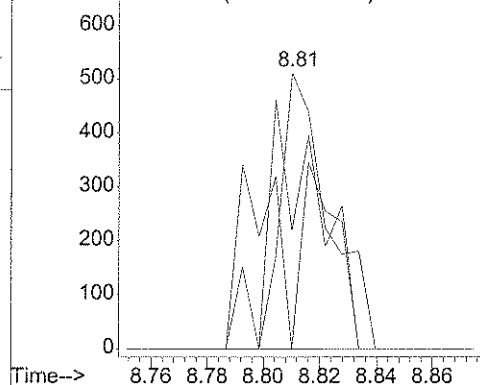


#45
 Trichloroethene
 Concen: 0.18 ug/l
 RT: 8.81 min Scan# 1437
 Delta R.T. -0.01 min
 Lab File: Y0502011.D
 Acq: 2 May 2008 10:37

Tgt Ion	Resp	Lower	Upper
130	653		
130	100		
132	82.7	75.0	115.0
95	45.2	69.4	109.4#

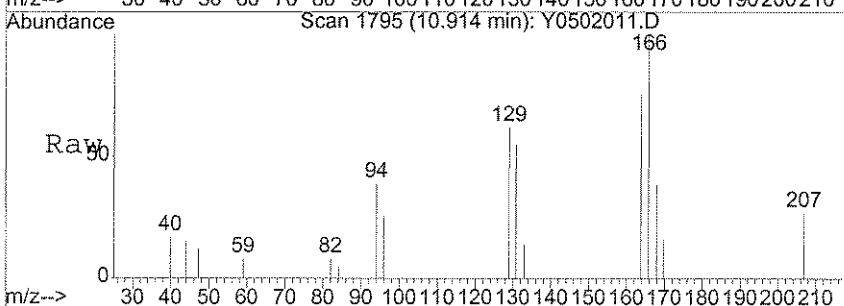


Abundance Ion 130.00 (129.70 to 130.70): Y0502011.D
 Ion 132.00 (131.70 to 132.70): Y0502011.D
 Ion 95.00 (94.70 to 95.70): Y0502011.D

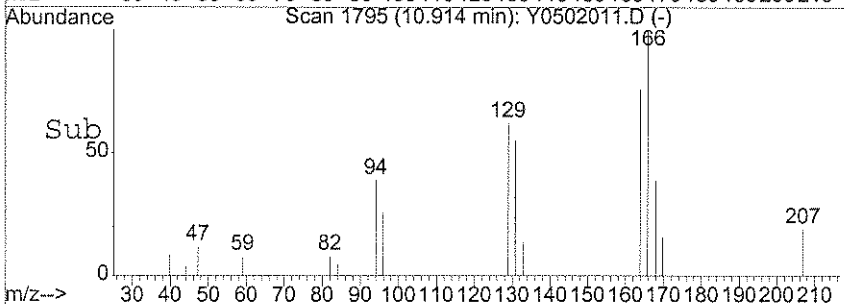
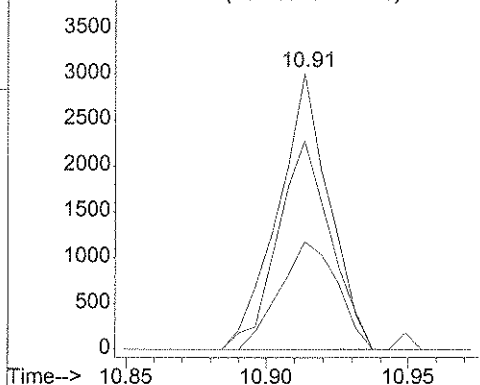


#60
 Tetrachloroethene
 Concen: 1.15 ug/l
 RT: 10.91 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: Y0502011.D
 Acq: 2 May 2008 10:37

Tgt Ion	Resp	Lower	Upper
166	3764		
166	100		
164	78.4	63.3	94.9
168	43.6	39.6	59.4



Abundance Ion 165.95 (165.65 to 166.65): Y0502011.D
 Ion 163.95 (163.65 to 164.65): Y0502011.D
 Ion 167.95 (167.65 to 168.65): Y0502011.D



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-4

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-002
 Lab File ID: Y0502012.D
 Date Collected: 04/29/2008
 Date/Time Analyzed: 05/02/2008 11:02
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.37	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-4

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-002
 Lab File ID: Y0502012.D
 Date Collected: 04/29/2008
 Date/Time Analyzed: 05/02/2008 11:02
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.28	J
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-4

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-002
 Lab File ID: Y0502012.D
 Date Collected: 04/29/2008
 Date/Time Analyzed: 05/02/2008 11:02
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

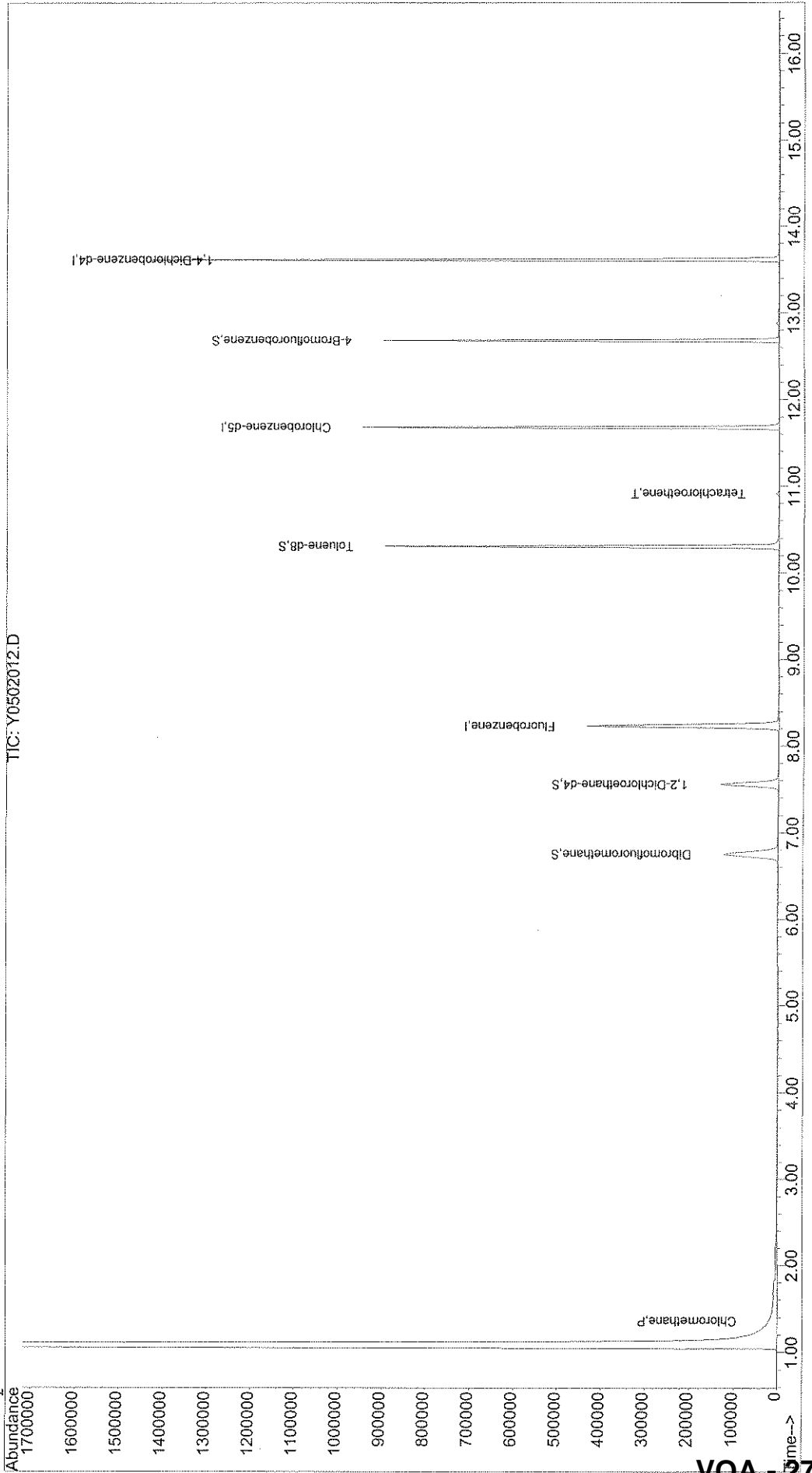
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502012.D
Acq On : 2 May 2008 11:02
Sample : JPL102-002
Misc : #2 5mL+IS/SS(MV8-45-10) (524)
MS Integration Params: rteint.p
Quant Time: May 5 10:59 2008
Vial: 8
Operator: LPM
Inst : Yoda
Multiplr: 1.00
Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502012.D
 Acq On : 2 May 2008 11:02
 Sample : JPL102-002
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 10:59 2008

Vial: 8
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	515365	50.00	ug/l	0.00	100.93%
54) Chlorobenzene-d5	11.68	82	233521	50.00	ug/l	0.00	95.47%
74) 1,4-Dichlorobenzene-d4	13.61	152	320567	50.00	ug/l	0.00	91.47%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	161075	47.78	ug/l	-0.01	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	95.56%	
40) 1,2-Dichloroethane-d4	7.56	65	157028	48.77	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.54%	
55) Toluene-d8	10.30	98	519438	51.37	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	102.74%	
76) 4-Bromofluorobenzene	12.68	95	213418	51.21	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	102.42%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	2298	0.37	ug/l	98
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	0.00	43	0	N.D.	d	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.90	76	1244	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	3.61	96	69	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

SL/08/08

(#) = qualifier out of range (m) = manual integration
 Y0502012.D Y8260W.M Mon May 05 10:59:18 2008

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502012.D
 Acq On : 2 May 2008 11:02
 Sample : JPL102-002
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 10:59 2008

Vial: 8
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	4.34	63	216		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	5.54	43	158		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.34	83	893		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.63	78	102		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	8.81	130	470		N.D.	
46) Methylcyclohexane	9.04	83	75		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	9.50	83	58		N.D.	
51) 2-Chloroethyl vinyl ether	10.06	63	57		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	10.16	43	182		N.D.	
56) Toluene	10.38	92	58		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0		N.D.	
60) Tetrachloroethene	10.92	166	1057	0.28	ug/l	99
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.14	43	188		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	d
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	72		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

Stelios

(#) = qualifier out of range (m) = manual integration
 Y0502012.D Y8260W.M Mon May 05 10:59:18 2008

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502012.D
 Acq On : 2 May 2008 11:02
 Sample : JPL102-002
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 10:59 2008

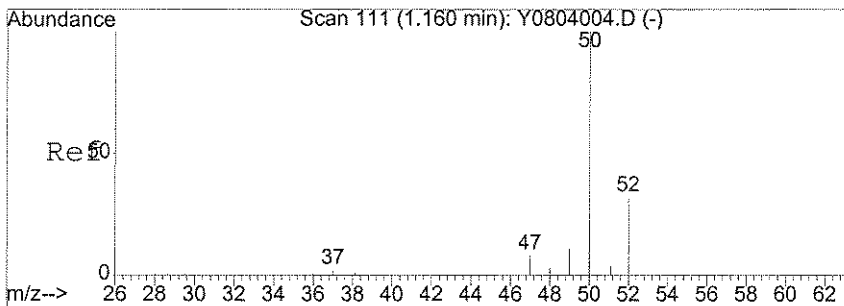
Vial: 8
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

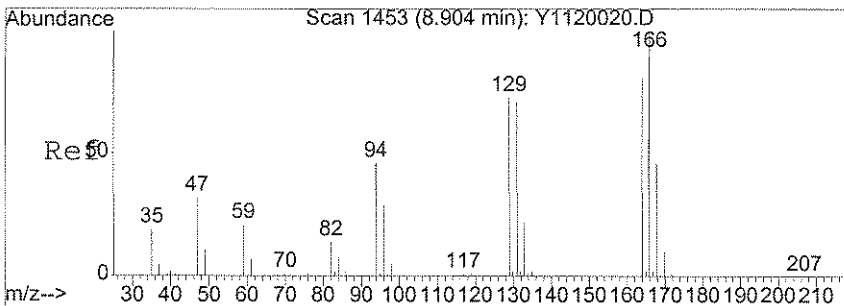
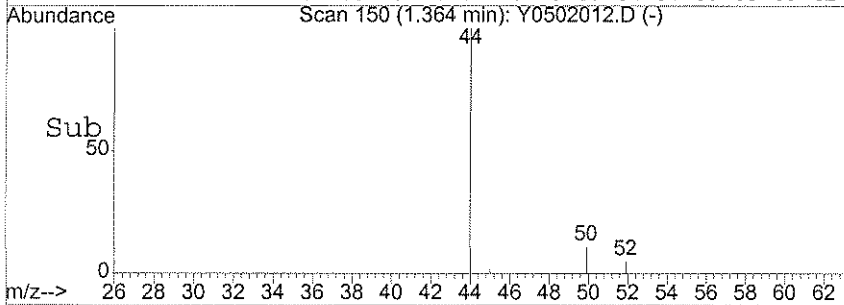
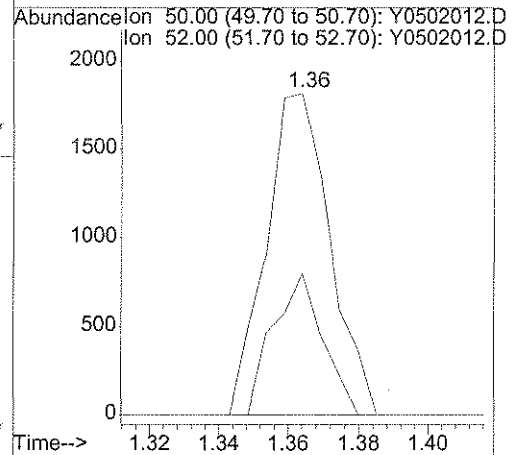
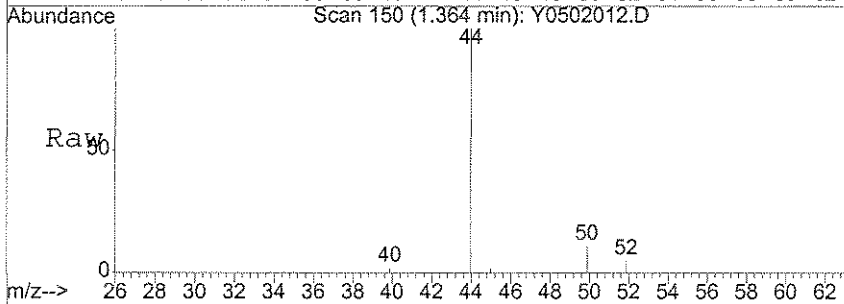
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	146		N.D.	
69) m,p-Xylene	0.00	106	0		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	12.26	104	210		N.D.	
72) Bromoform	12.33	173	85		N.D.	
73) Isopropylbenzene	12.56	105	171		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	149		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.96	91	61		N.D.	
82) 4-Chlorotoluene	13.05	91	126		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	560		N.D.	
88) 4-Isopropyltoluene	13.60	119	603		N.D.	
89) 1,4-Dichlorobenzene	13.64	146	323		N.D.	
90) 1,2-Dichlorobenzene	13.93	146	348		N.D.	
91) n-Butylbenzene	13.91	91	471		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.31	75	73		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	581		N.D.	
94) Hexachlorobutadiene	15.30	225	415		N.D.	
95) Naphthalene	15.36	128	220		N.D.	
96) 1,2,3-Trichlorobenzene	15.55	180	651		N.D.	

4/6/08/CP



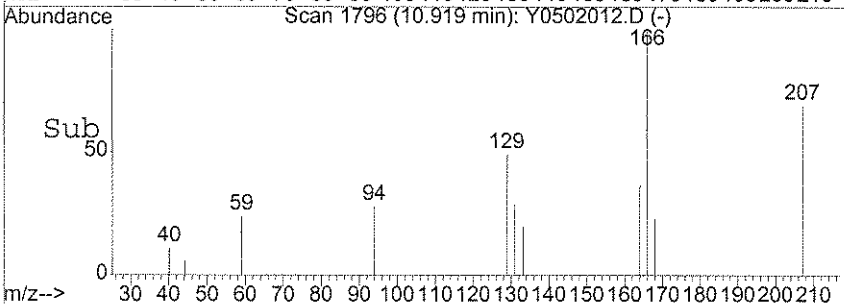
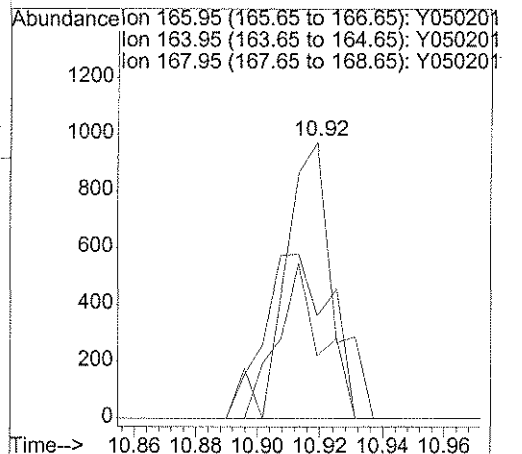
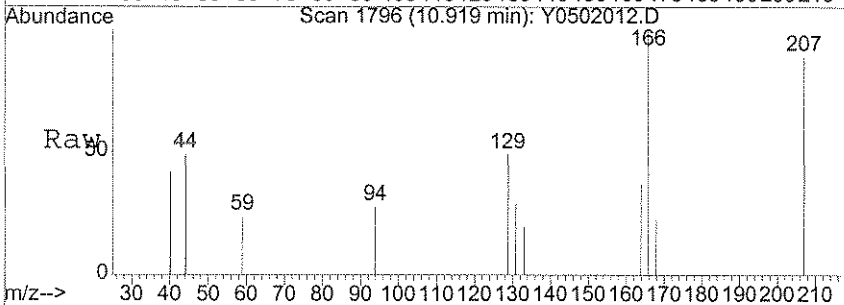
#3
 Chloromethane
 Concen: 0.37 ug/l
 RT: 1.36 min Scan# 150
 Delta R.T. -0.01 min
 Lab File: Y0502012.D
 Acq: 2 May 2008 11:02

Tgt Ion	Resp	Lower	Upper
50	2298		
50	100		
52	34.3	13.0	53.0



#60
 Tetrachloroethene
 Concen: 0.28 ug/l
 RT: 10.92 min Scan# 1796
 Delta R.T. 0.01 min
 Lab File: Y0502012.D
 Acq: 2 May 2008 11:02

Tgt Ion	Resp	Lower	Upper
166	1057		
166	100		
164	79.5	63.3	94.9
168	50.8	39.6	59.4



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-3

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-003
 Lab File ID: Y0502013.D
 Date Collected: 04/29/2008
 Date/Time Analyzed: 05/02/2008 11:27
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.60	
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-3

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-003
 Lab File ID: Y0502013.D
 Date Collected: 04/29/2008
 Date/Time Analyzed: 05/02/2008 11:27
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-3

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-003
 Lab File ID: Y0502013.D
 Date Collected: 04/29/2008
 Date/Time Analyzed: 05/02/2008 11:27
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

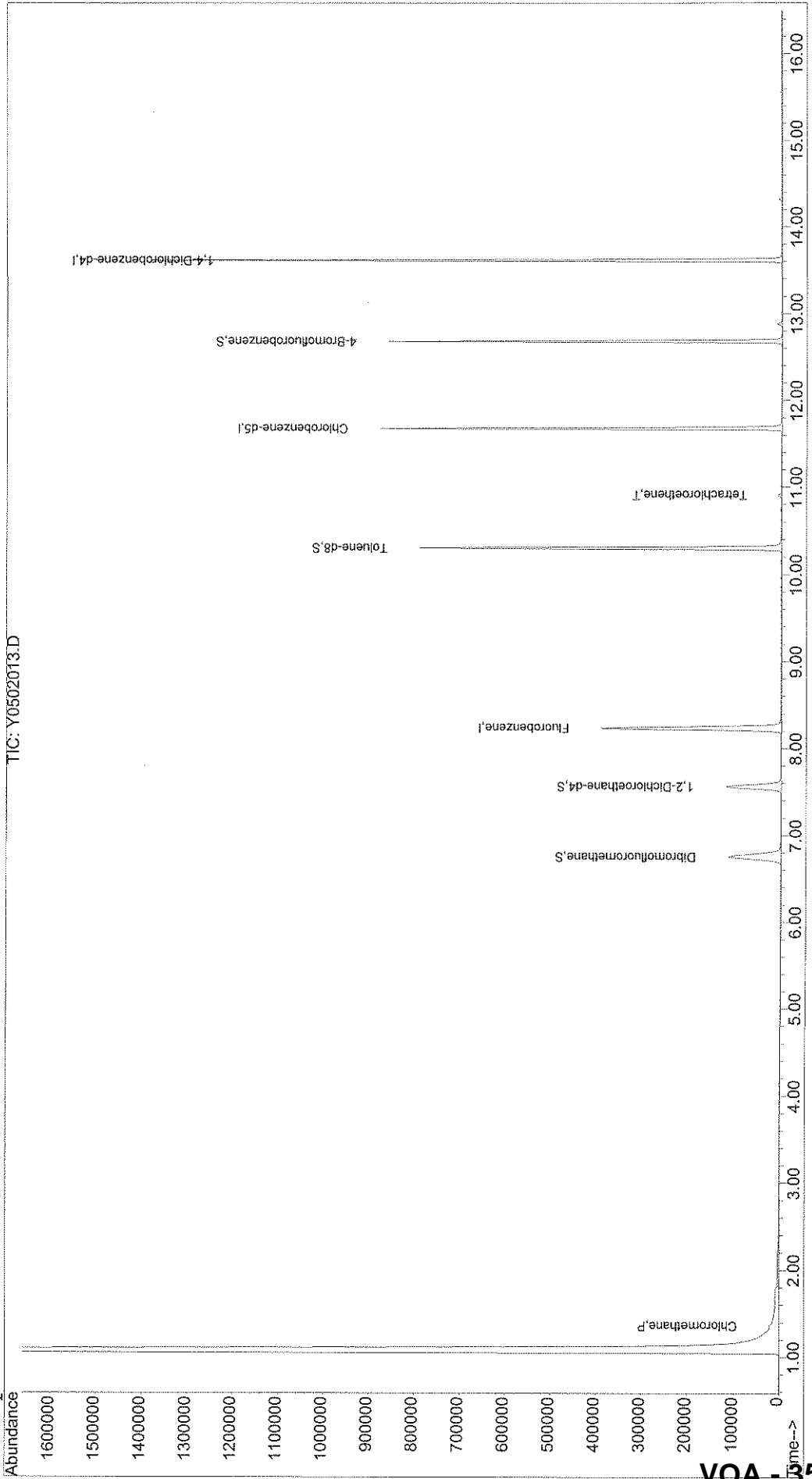
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502013.D
Acq On : 2 May 2008 11:27 Vial: 9
Sample : JPL102-003 Operator: LPM
Misc : #2 5mL+IS/SS(MV8-45-10) (524) Inst : Yoda
MS Integration Params: rteint.p Multiplr: 1.00
Quant Time: May 5 11:00 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



VOA - 35

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502013.D
 Acq On : 2 May 2008 11:27
 Sample : JPL102-003
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 11:00 2008

Vial: 9
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	475043	50.00	ug/l	0.00	93.03%
54) Chlorobenzene-d5	11.68	82	214274	50.00	ug/l	0.00	87.60%
74) 1,4-Dichlorobenzene-d4	13.61	152	300872	50.00	ug/l	0.00	85.85%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	153022	49.24	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	98.48%	
40) 1,2-Dichloroethane-d4	7.56	65	147014	49.53	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.06%	
55) Toluene-d8	10.30	98	476961	51.41	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	102.82%	
76) 4-Bromofluorobenzene	12.68	95	197922	50.60	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	101.20%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	3440	0.60	ug/l	99
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	0.00	43	0	N.D.	d	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	876	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.28	84	126	Below Cal	#	25
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

Stalos

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

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502013.D
 Acq On : 2 May 2008 11:27
 Sample : JPL102-003
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 11:00 2008

Vial: 9
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	4.34	63	171		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	5.51	96	184		N.D.	
30) 2-Butanone	5.60	43	53		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.35	83	372		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.67	78	111		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	8.82	130	139		N.D.	
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.30	92	64		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.90	97	81		N.D.	
60) Tetrachloroethene	10.92	166	615	0.18	ug/l #	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.08	43	111		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	d
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	0.00	112	0		N.D.	
66) 1-Chlorohexane	11.72	91	67		N.D.	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

*2 1/2 pcv
 QM 78
 5/19/08*

st/08 cm

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502013.D
 Acq On : 2 May 2008 11:27
 Sample : JPL102-003
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 11:00 2008

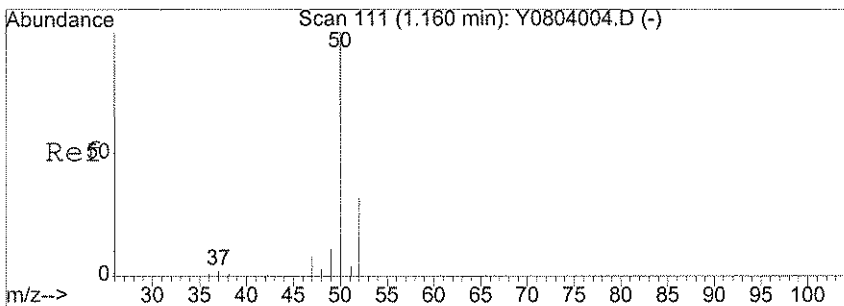
Vial: 9
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

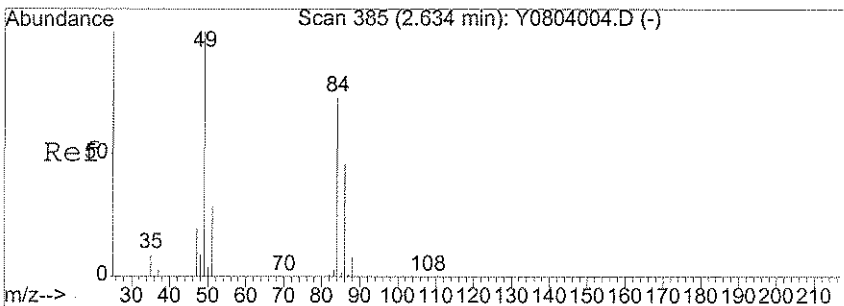
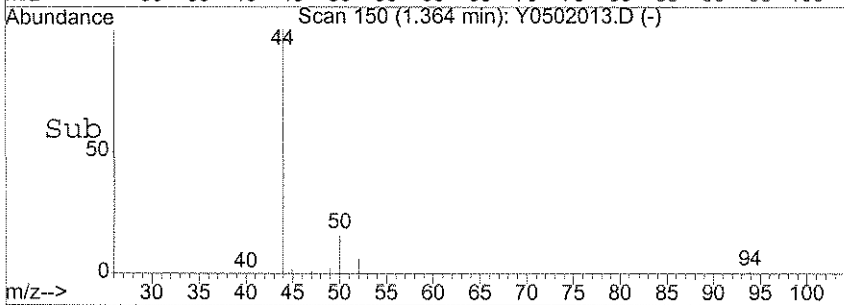
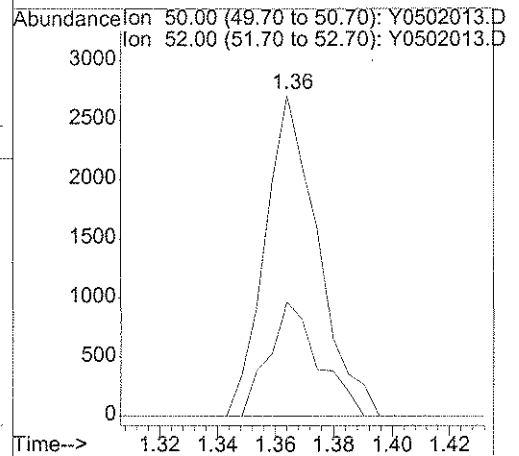
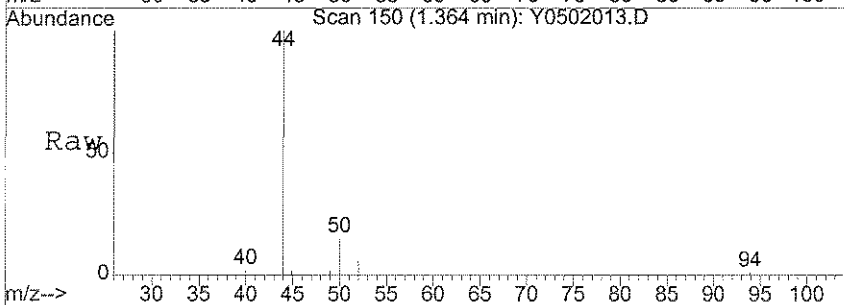
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	150		N.D.	
69) m,p-Xylene	11.91	106	69		N.D.	
70) o-xylene	12.26	106	60		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.68	105	537		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	123		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.96	91	73		N.D.	
82) 4-Chlorotoluene	13.05	91	63		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	534		N.D.	
88) 4-Isopropyltoluene	13.58	119	412		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	676		N.D.	
90) 1,2-Dichlorobenzene	13.92	146	482		N.D.	
91) n-Butylbenzene	13.90	91	413		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.32	75	94		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	499		N.D.	
94) Hexachlorobutadiene	15.30	225	357		N.D.	
95) Naphthalene	15.36	128	155		N.D.	
96) 1,2,3-Trichlorobenzene	15.55	180	661		N.D.	

5/6/08 LPM



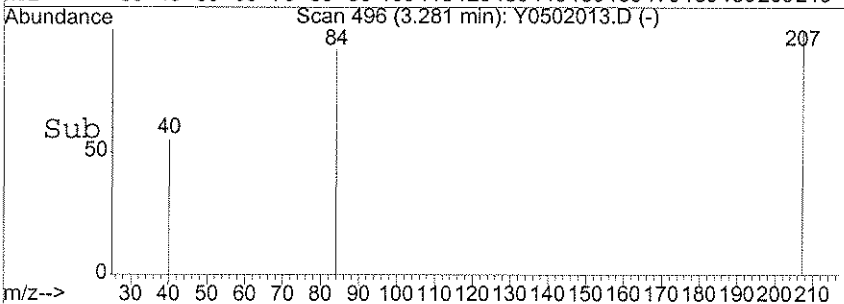
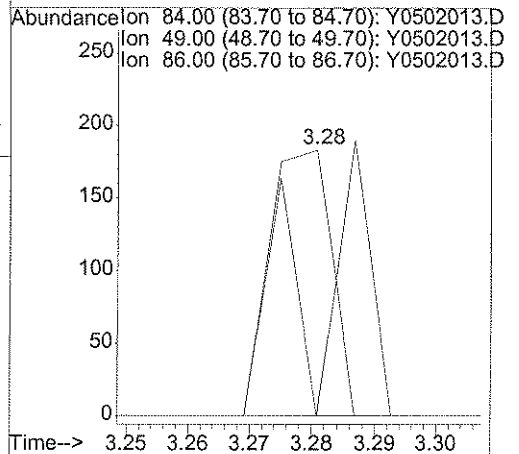
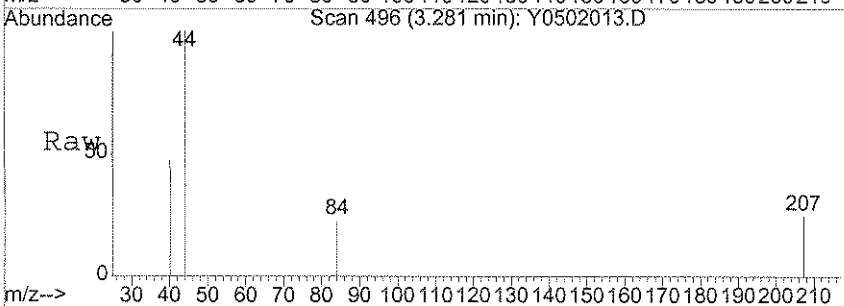
#3
 Chloromethane
 Concen: 0.60 ug/l
 RT: 1.36 min Scan# 150
 Delta R.T. -0.01 min
 Lab File: Y0502013.D
 Acq: 2 May 2008 11:27

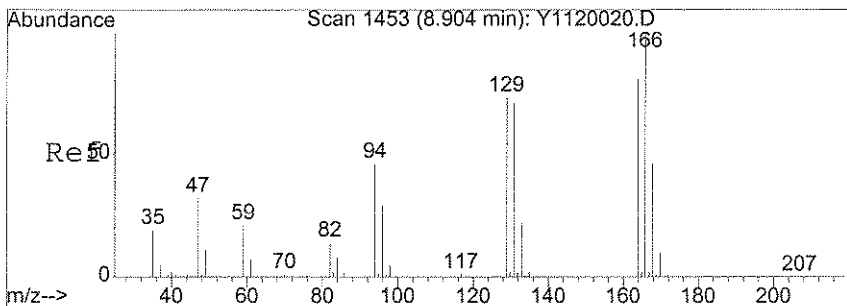
Tgt Ion: 50 Resp: 3440
 Ion Ratio Lower Upper
 50 100
 52 33.7 13.0 53.0



#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.28 min Scan# 496
 Delta R.T. 0.01 min
 Lab File: Y0502013.D
 Acq: 2 May 2008 11:27

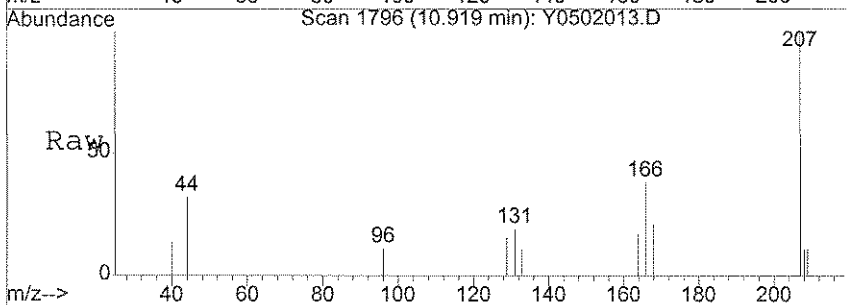
Tgt Ion: 84 Resp: 126
 Ion Ratio Lower Upper
 84 100
 49 46.0 112.5 152.5#
 86 0.0 39.5 79.5#



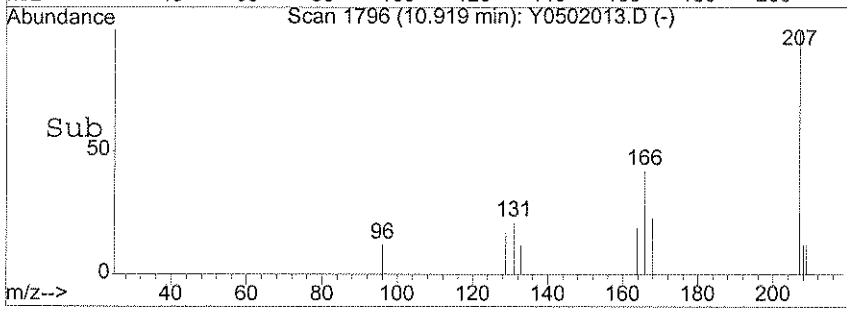
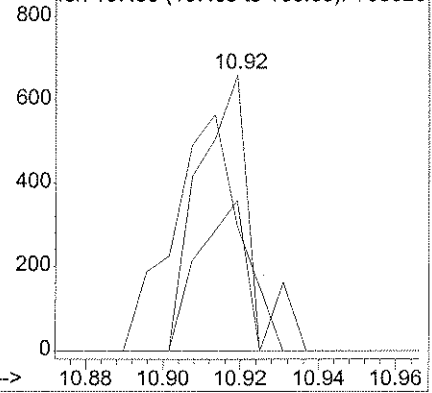


#60
 Tetrachloroethene
 Concen: 0.18 ug/l
 RT: 10.92 min Scan# 1796
 Delta R.T. 0.01 min
 Lab File: Y0502013.D
 Acq: 2 May 2008 11:27

Tgt Ion	Resp	Lower	Upper
166	100		
164	109.9	63.3	94.9#
168	49.1	39.6	59.4



Abundance
 Ion 165.95 (165.65 to 166.65): Y050201
 Ion 163.95 (163.65 to 164.65): Y050201
 Ion 167.95 (167.65 to 168.65): Y050201



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-2

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-004
 Lab File ID: Y0502014.D
 Date Collected: 04/29/2008
 Date/Time Analyzed: 05/02/2008 11:52
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.48	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.38	J
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.89	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-2

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-004
 Lab File ID: Y0502014.D
 Date Collected: 04/29/2008
 Date/Time Analyzed: 05/02/2008 11:52
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.33	J
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-2

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

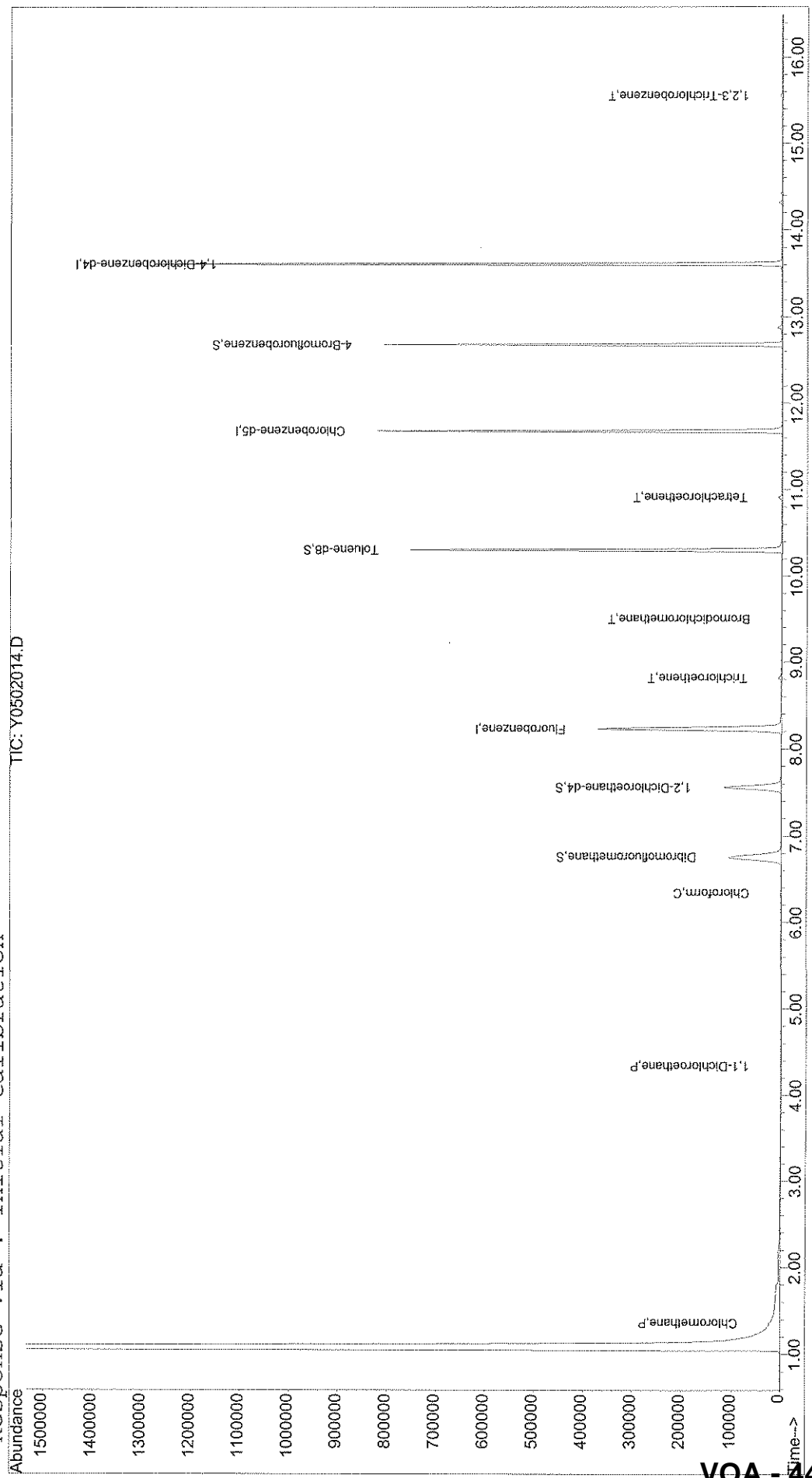
Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-004
 Lab File ID: Y0502014.D
 Date Collected: 04/29/2008
 Date/Time Analyzed: 05/02/2008 11:52
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502014.D Vial: 10
Acq On : 2 May 2008 11:52 Operator: LPM
Sample : JPL102-004 Inst : Yoda
Misc : #3 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 5 11:01 2008 Quant Results File: Y8260W.RES
Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



VOA - 44

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502014.D
 Acq On : 2 May 2008 11:52
 Sample : JPL102-004
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 11:01 2008

Vial: 10
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
						Rcv(Ar)
1) Fluorobenzene	8.23	96	444201	50.00	ug/l	0.00 86.99%
54) Chlorobenzene-d5	11.68	82	204740	50.00	ug/l	0.00 83.70%
74) 1,4-Dichlorobenzene-d4	13.61	152	286041	50.00	ug/l	0.00 81.62%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	141943	48.85	ug/l	0.00
Spiked Amount	50.000	Range	85 - 115	Recovery	=	97.70%
40) 1,2-Dichloroethane-d4	7.56	65	137894	49.68	ug/l	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.36%
55) Toluene-d8	10.30	98	447092	50.43	ug/l	0.00
Spiked Amount	50.000	Range	85 - 120	Recovery	=	100.86%
76) 4-Bromofluorobenzene	12.68	95	189378	50.93	ug/l	0.00
Spiked Amount	50.000	Range	75 - 120	Recovery	=	101.86%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.	
3) Chloromethane	1.36	50	2590	0.48 ug/l	91
4) Vinyl Chloride	0.00	62	0	N.D.	
5) Bromomethane	0.00	96	0	N.D.	
6) Chloroethane	0.00	64	0	N.D.	
7) Trichlorofluoromethane	0.00	101	0	N.D.	
8) Acrolein	0.00	56	0	N.D.	
9) 1,1-Dichloroethene	0.00	96	0	N.D.	
10) 1,1,2-Trichloro-1,2,2-trif	2.69	101	62	N.D.	
11) Acetone	0.00	43	0	N.D.	d
12) Iodomethane	0.00	142	0	N.D.	
13) Bromoethane	0.00	108	0	N.D.	
14) Carbon Disulfide	2.91	76	591	N.D.	
15) Allyl chloride	0.00	76	0	N.D.	
16) Acetonitrile	0.00	40	0	N.D.	d
17) Methyl Acetate	3.13	43	62	N.D.	
18) Methylene Chloride	3.28	84	375	Below Cal	# 36
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.	
20) Acrylonitrile	0.00	53	0	N.D.	
21) t-butyl alcohol	0.00	59	0	N.D.	
22) Methyl tert-butyl ether	0.00	73	0	N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0502014.D Y8260W.M Mon May 05 11:02:06 2008

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502014.D
 Acq On : 2 May 2008 11:52
 Sample : JPL102-004
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 11:01 2008

Vial: 10
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	4.33	63	1262	0.19	ug/l	2 1/2 PAL 76
24) Vinyl acetate	0.00	43	0	N.D.		
25) Chloroprene	0.00	53	0	N.D.		John 5/19/08
26) Isopropyl ether	0.00	45	0	N.D.		
27) Ethyl-t-butyl ether	0.00	59	0	N.D.		
28) 2,2-Dichloropropane	0.00	77	0	N.D.		
29) cis-1,2-Dichloroethene	5.49	96	255	N.D.		
30) 2-Butanone	0.00	43	0	N.D.		
31) Propionitrile	0.00	54	0	N.D.		
32) Bromochloromethane	0.00	128	0	N.D.		
33) Methacrylonitrile	0.00	41	0	N.D.		
34) Chloroform	6.34	83	2509ms	0.38	ug/l	35
35) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
37) Cyclohexane	0.00	56	0	N.D.		
38) Carbon Tetrachloride	0.00	117	0	N.D.		
39) 1,1-Dichloropropene	0.00	75	0	N.D.		
41) Benzene	7.65	78	157	N.D.		
42) 1,2-Dichloroethane	7.51	62	64	N.D.		
43) Isobutanol	0.00	43	0	N.D.	d	
44) t-amyl methyl ether	0.00	73	0	N.D.		
45) Trichloroethene	8.82	130	3190	0.89	ug/l	88
46) Methylcyclohexane	0.00	83	0	N.D.		
47) 1,2-Dichloropropane	0.00	63	0	N.D.		
48) Dibromomethane	0.00	93	0	N.D.		
49) Methyl methacrylate	0.00	41	0	N.D.		
50) Bromodichloromethane	9.50	83	709	0.18	ug/l	# 40
51) 2-Chloroethyl vinyl ether	0.00	63	0	N.D.		
52) cis-1,3-Dichloropropene	9.88	75	58	N.D.		
53) 4-Methyl-2-pentanone	10.21	43	142	N.D.		
56) Toluene	10.30	92	64	N.D.		
57) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
58) Ethyl methacrylate	0.00	69	0	N.D.		
59) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
60) Tetrachloroethene	10.91	166	1099	0.33	ug/l	89
61) 1,3-Dichloropropane	0.00	76	0	N.D.		
62) 2-Hexanone	11.16	43	152	N.D.		
63) Dibromochloromethane	0.00	129	0	N.D.	d	
64) 1,2-Dibromoethane	0.00	107	0	N.D.		
65) Chlorobenzene	11.69	112	148	N.D.		
66) 1-Chlorohexane	0.00	91	0	N.D.	d	
67) 1,1,1,2-Tetrachloroethane	12.04	131	56	N.D.		

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

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502014.D
 Acq On : 2 May 2008 11:52
 Sample : JPL102-004
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 11:01 2008

Vial: 10
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

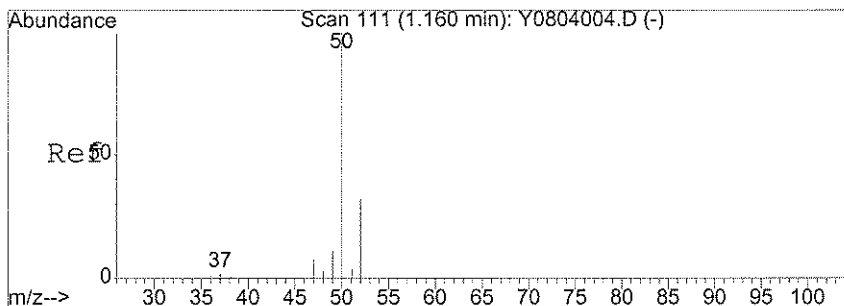
Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.92	91	281		N.D.	
69) m,p-Xylene	11.90	106	57		N.D.	
70) o-xylene	12.25	106	84		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.57	105	67		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	54		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	13.05	120	56		N.D.	
81) 2-Chlorotoluene	12.89	91	82		N.D.	
82) 4-Chlorotoluene	13.05	91	73		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	987		N.D.	
88) 4-Isopropyltoluene	13.59	119	245		N.D.	
89) 1,4-Dichlorobenzene	13.92	146	676		N.D.	
90) 1,2-Dichlorobenzene	13.92	146	676		N.D.	
91) n-Butylbenzene	13.90	91	264		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	597		N.D.	
94) Hexachlorobutadiene	15.30	225	283		N.D.	
95) Naphthalene	15.36	128	226		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	1469	0.22	ug/l #	75

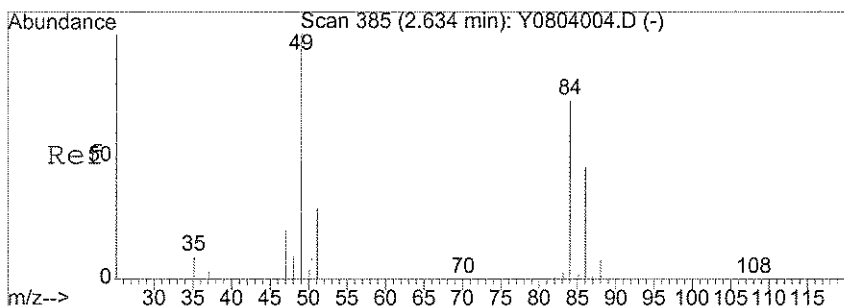
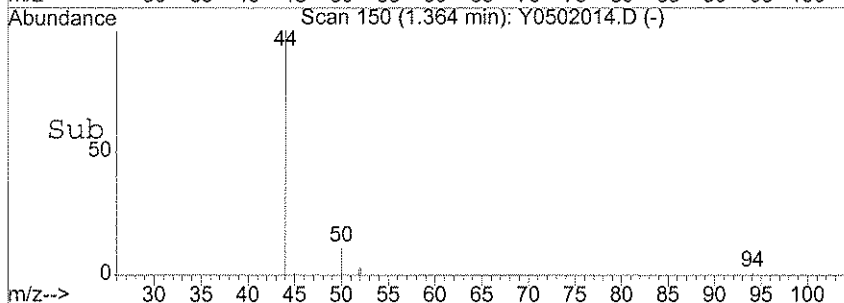
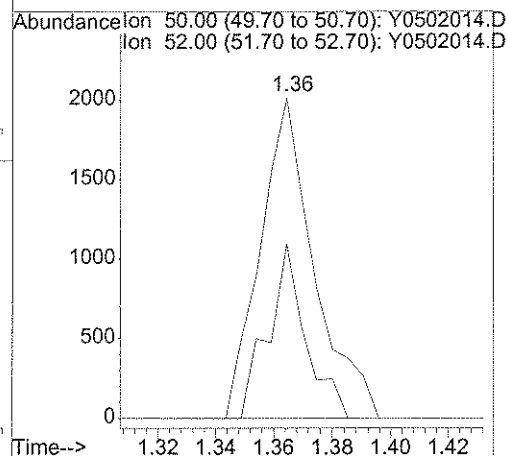
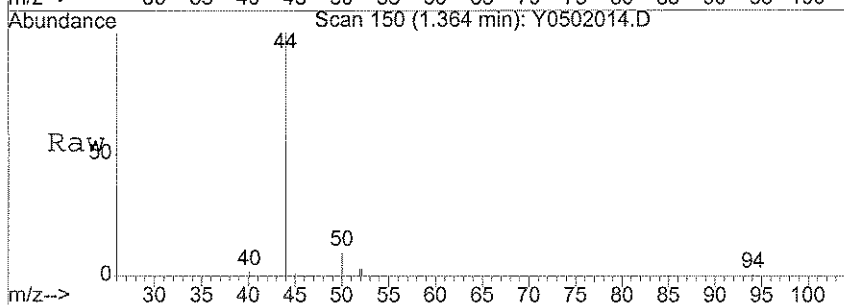
< 1/2 PQL
0.22 ug/l # 75
QNT 5/19/08

stebler



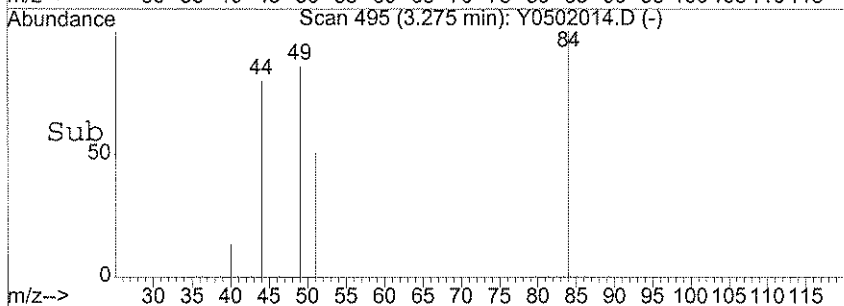
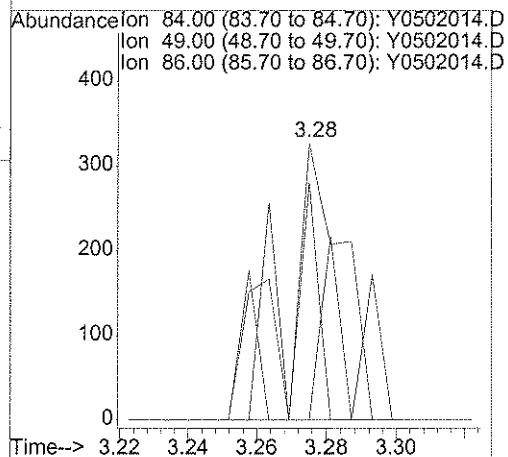
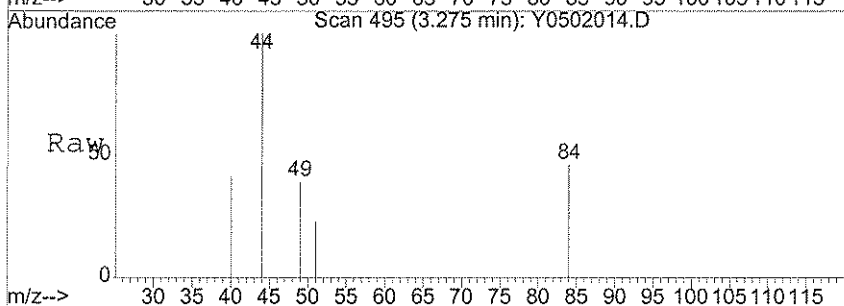
#3
 Chloromethane
 Concen: 0.48 ug/l
 RT: 1.36 min Scan# 150
 Delta R.T. -0.01 min
 Lab File: Y0502014.D
 Acq: 2 May 2008 11:52

Tgt Ion	Resp	Lower	Upper
50	2590		
52	38.1	13.0	53.0



#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.28 min Scan# 495
 Delta R.T. 0.01 min
 Lab File: Y0502014.D
 Acq: 2 May 2008 11:52

Tgt Ion	Resp	Lower	Upper
84	375		
49	50.7	112.5	152.5#
86	20.5	39.5	79.5#



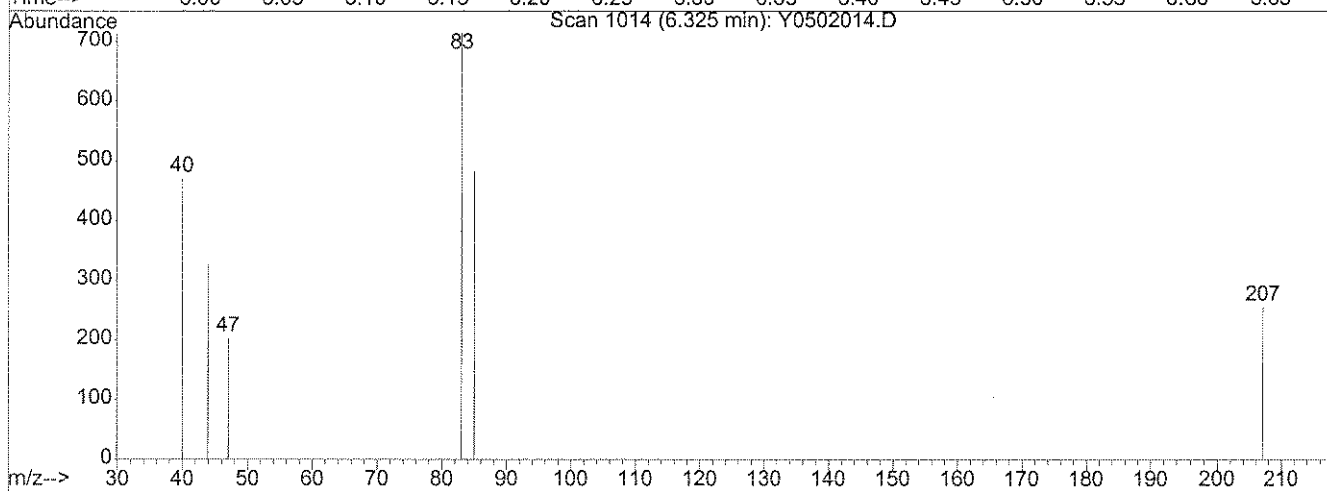
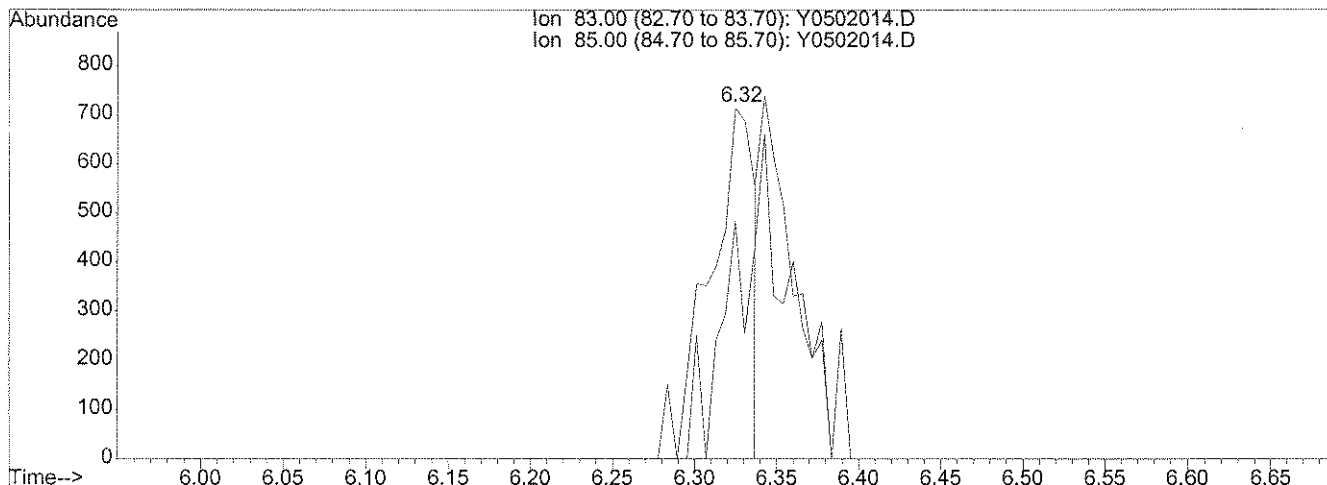
Quantitation Report (Qedit)

Data File : X:\MSVOA\YODA\050208\Y0502014.D
 Acq On : 2 May 2008 11:52
 Sample : JPL102-004
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 11:00 2008

Vial: 10
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: temp.res

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Multiple Level Calibration



TIC: Y0502014.D

(34) Chloroform (C)

6.32min 0.20ug/l

response 1354

Ion	Exp%	Act%
83.00	100	100
85.00	63.30	113.66#
0.00	0.00	0.00
0.00	0.00	0.00

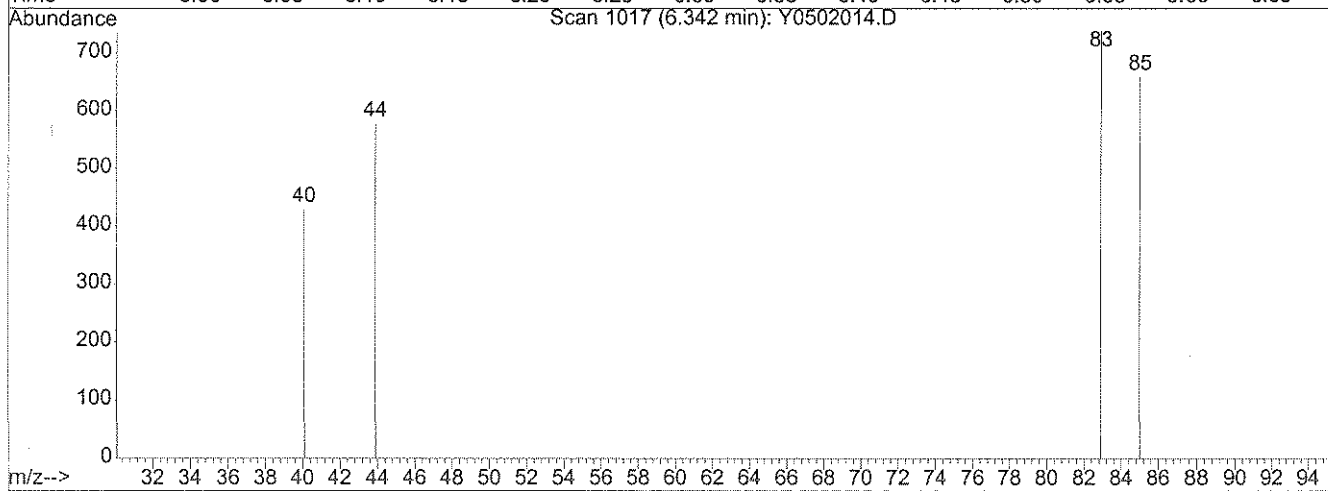
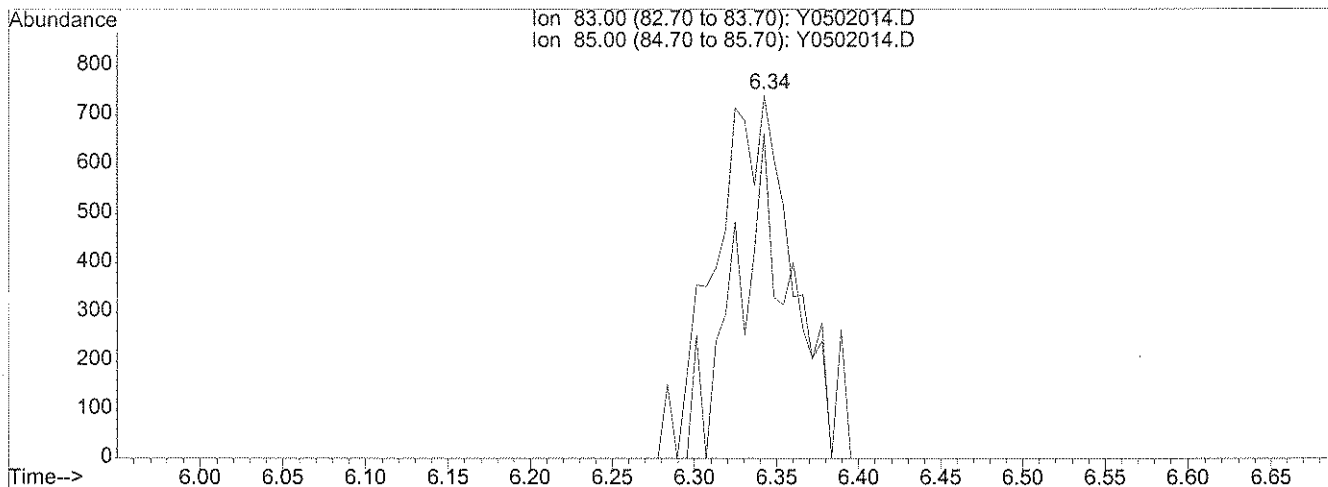
Quantitation Report (Qedit)

Data File : X:\MSVOA\YODA\050208\Y0502014.D
 Acq On : 2 May 2008 11:52
 Sample : JPL102-004
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 11:01 2008

Vial: 10
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: temp.res

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Multiple Level Calibration

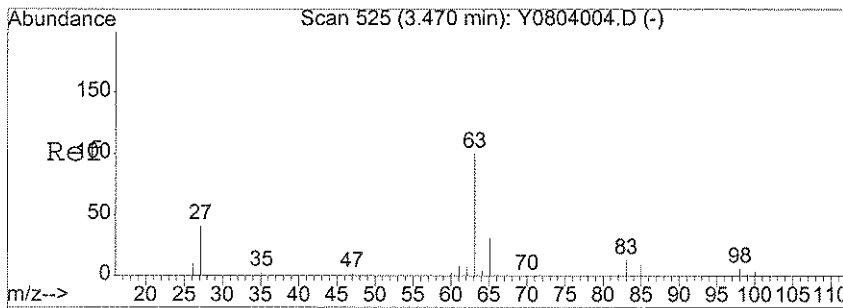


(34) Chloroform (C)

6.34min 0.38ug/l m

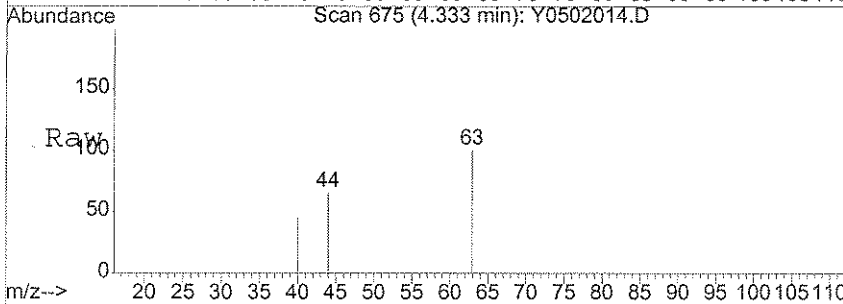
response 2509

Ion	Exp%	Act%
83.00	100	100
85.00	63.30	61.34
0.00	0.00	0.00
0.00	0.00	0.00

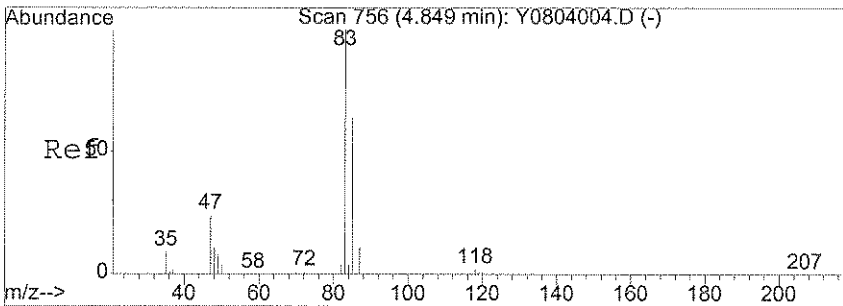
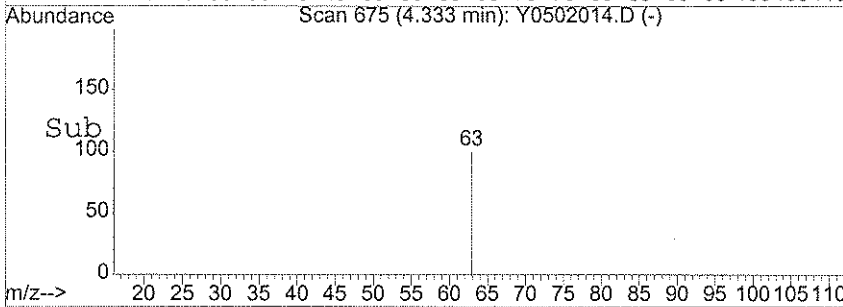
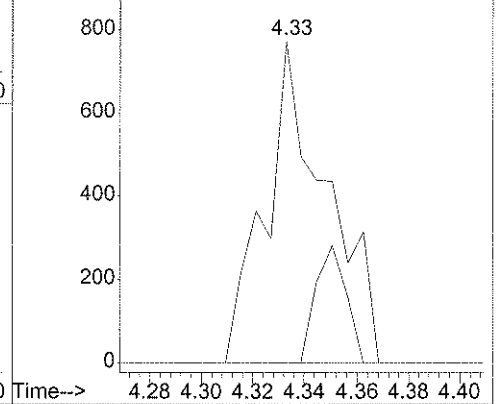


#23
 1,1-Dichloroethane
 Concen: 0.19 ug/l
 RT: 4.33 min Scan# 675
 Delta R.T. -0.01 min
 Lab File: Y0502014.D
 Acq: 2 May 2008 11:52

Tgt Ion: 63 Resp: 1262
 Ion Ratio Lower Upper
 63 100
 65 17.7 11.0 51.0

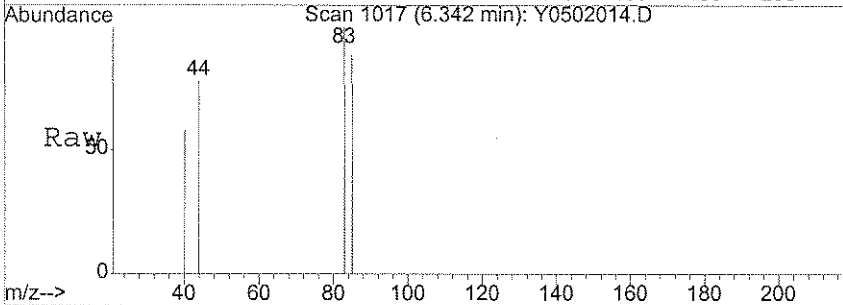


Abundance Ion 63.00 (62.70 to 63.70): Y0502014.D
 Ion 65.00 (64.70 to 65.70): Y0502014.D

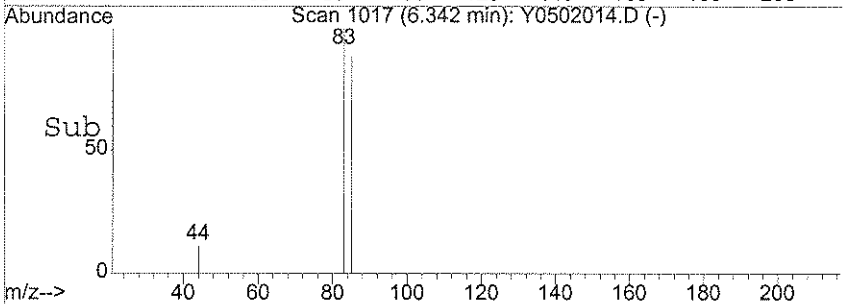
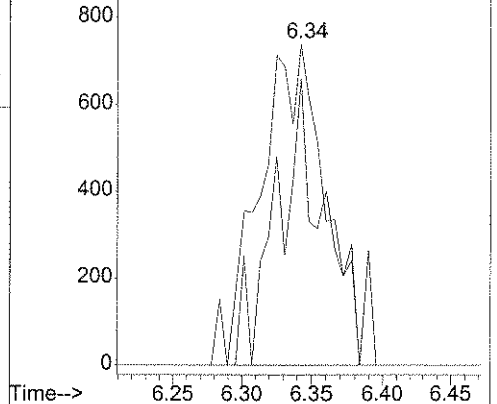


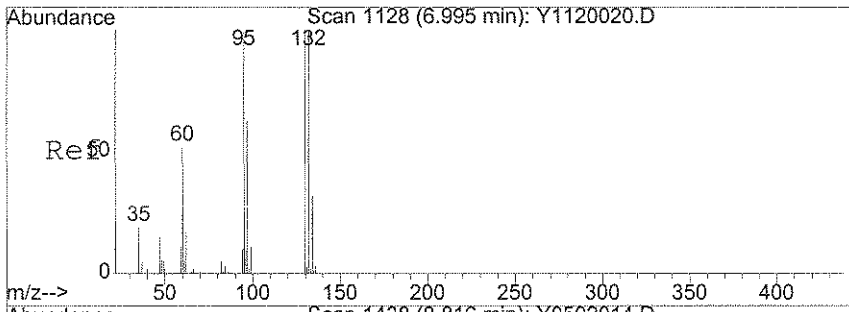
#34
 Chloroform
 Concen: 0.38 ug/l m
 RT: 6.34 min Scan# 1017
 Delta R.T. 0.01 min
 Lab File: Y0502014.D
 Acq: 2 May 2008 11:52

Tgt Ion: 83 Resp: 2509
 Ion Ratio Lower Upper
 83 100
 85 61.3 43.3 83.3



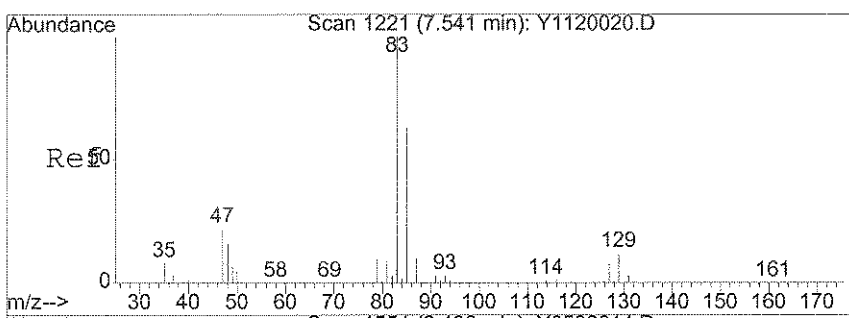
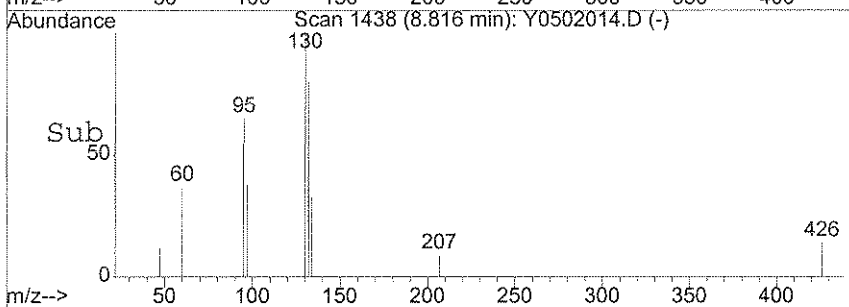
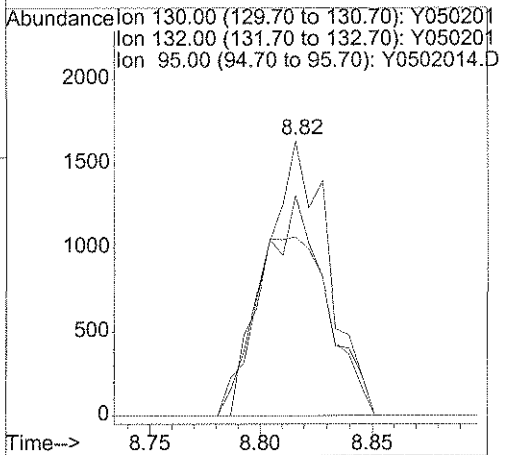
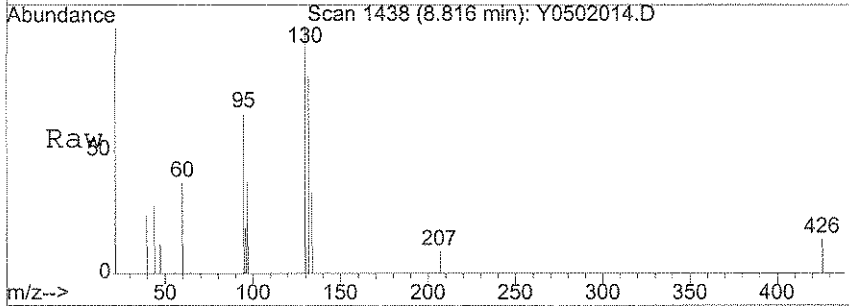
Abundance Ion 83.00 (82.70 to 83.70): Y0502014.D
 Ion 85.00 (84.70 to 85.70): Y0502014.D





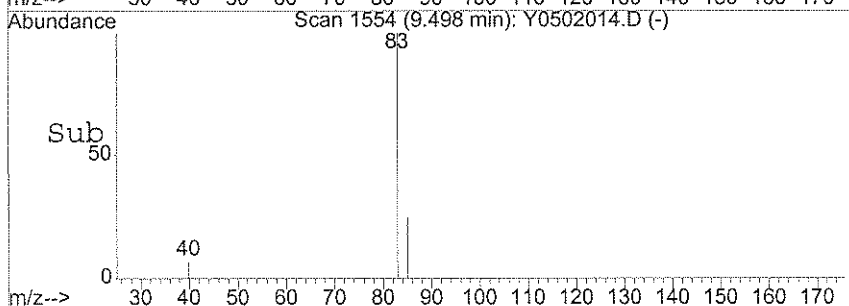
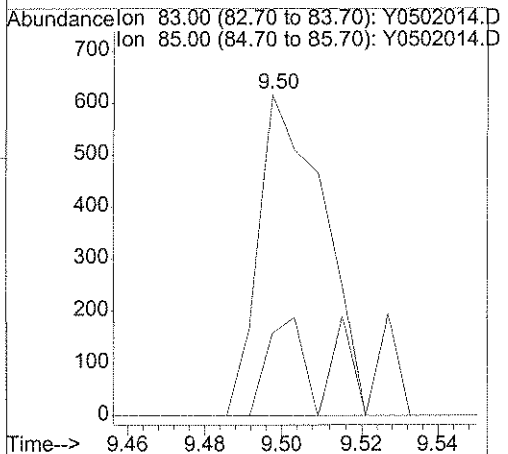
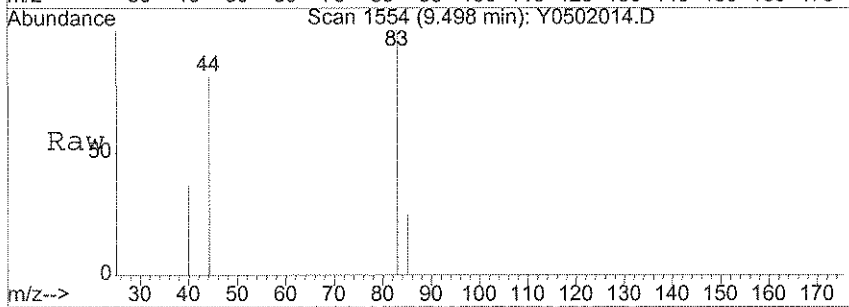
#45
 Trichloroethene
 Concen: 0.89 ug/l
 RT: 8.82 min Scan# 1438
 Delta R.T. 0.00 min
 Lab File: Y0502014.D
 Acq: 2 May 2008 11:52

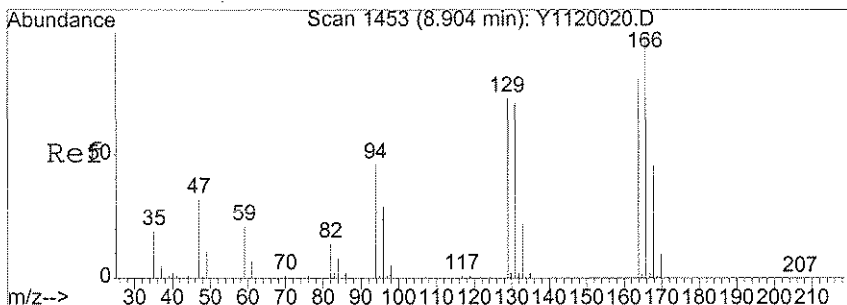
Tgt Ion	Resp	Lower	Upper
130	3190		
130	100		
132	81.7	75.0	115.0
95	79.2	69.4	109.4



#50
 Bromodichloromethane
 Concen: 0.18 ug/l
 RT: 9.50 min Scan# 1554
 Delta R.T. -0.01 min
 Lab File: Y0502014.D
 Acq: 2 May 2008 11:52

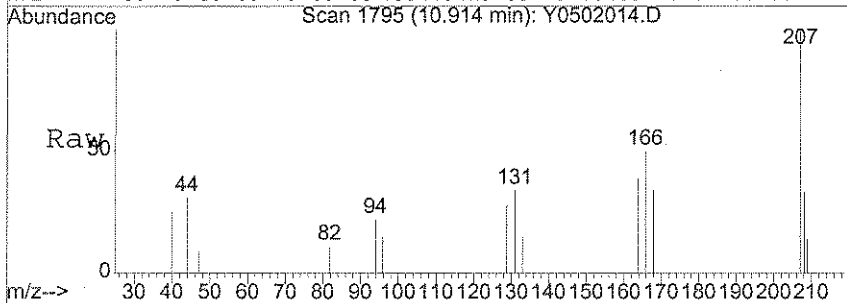
Tgt Ion	Resp	Lower	Upper
83	709		
83	100		
85	17.2	44.2	84.2#



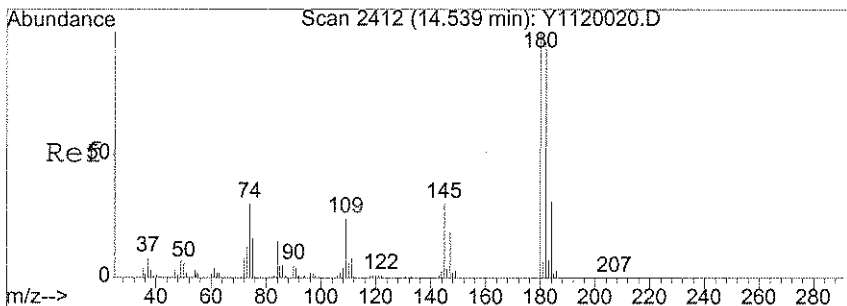
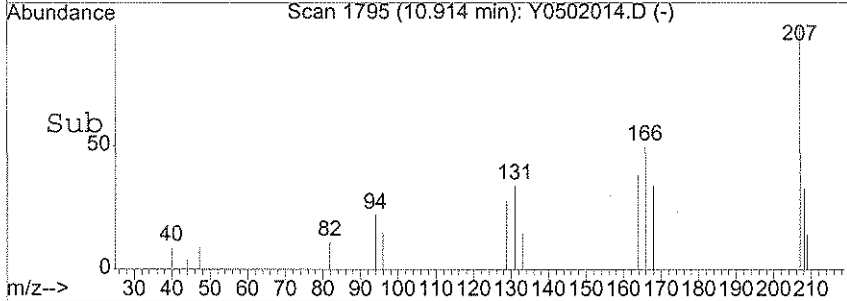
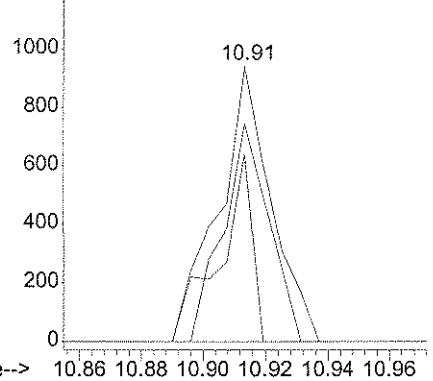


#60
 Tetrachloroethene
 Concen: 0.33 ug/l
 RT: 10.91 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: Y0502014.D
 Acq: 2 May 2008 11:52

Tgt Ion	Resp	Lower	Upper
166	1099		
164	69.0	63.3	94.9
168	43.1	39.6	59.4

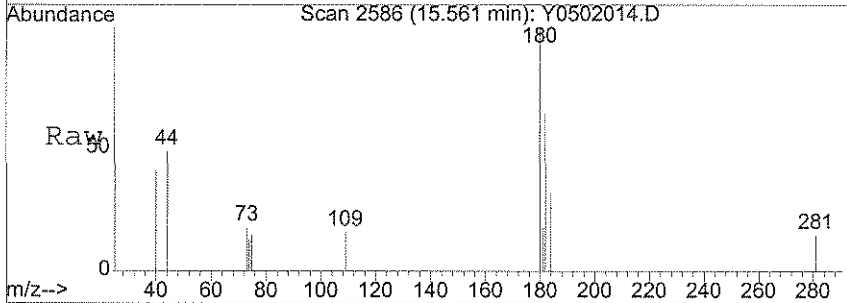


Abundance
 Ion 165.95 (165.65 to 166.65): Y050201
 Ion 163.95 (163.65 to 164.65): Y050201
 Ion 167.95 (167.65 to 168.65): Y050201

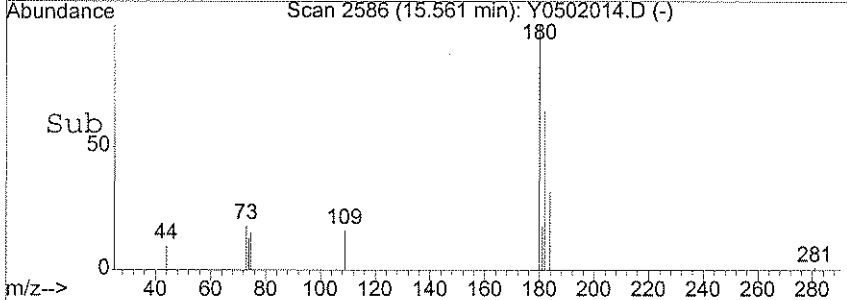
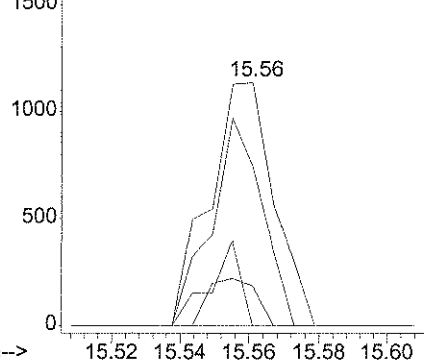


#96
 1,2,3-Trichlorobenzene
 Concen: 0.22 ug/l
 RT: 15.56 min Scan# 2586
 Delta R.T. 0.01 min
 Lab File: Y0502014.D
 Acq: 2 May 2008 11:52

Tgt Ion	Resp	Lower	Upper
180	1469		
182	67.5	76.1	114.1#
145	17.0	24.1	36.1#
109	14.5	16.2	24.4#



Abundance
 Ion 179.95 (179.65 to 180.65): Y050201
 Ion 181.95 (181.65 to 182.65): Y050201
 Ion 144.95 (144.65 to 145.65): Y050201
 Ion 109.05 (108.75 to 109.75): Y050201



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-1

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-005
 Lab File ID: Y0502015.D
 Date Collected: 04/29/2008
 Date/Time Analyzed: 05/02/2008 12:16
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.52	
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-1

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-005
 Lab File ID: Y0502015.D
 Date Collected: 04/29/2008
 Date/Time Analyzed: 05/02/2008 12:16
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-1

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-005
 Lab File ID: Y0502015.D
 Date Collected: 04/29/2008
 Date/Time Analyzed: 05/02/2008 12:16
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

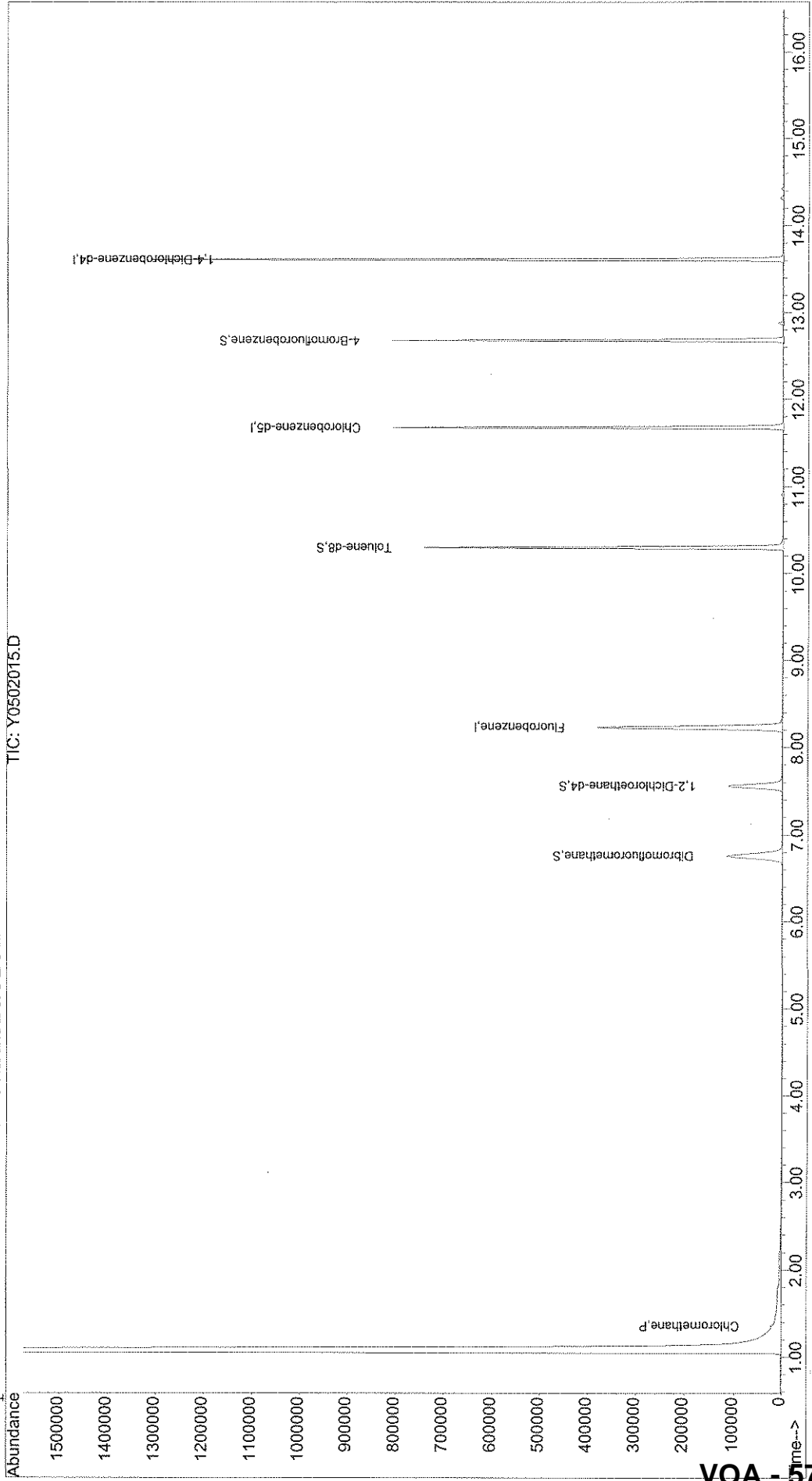
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502015.D
Acq On : 2 May 2008 12:16
Sample : JPL102-005
Misc : #5 5mL+IS/SS(MV8-45-10) (524)
MS Integration Params: rteint.p
Quant Time: May 5 11:42 2008
Vial: 11
Operator: LPM
Inst : yoda
Multiplr: 1.00
Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502015.D
 Acq On : 2 May 2008 12:16
 Sample : JPL102-005
 Misc : #5 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 11:42 2008

Vial: 11
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	457751	50.00	ug/l	0.00 89.65%
54) Chlorobenzene-d5	11.68	82	200912	50.00	ug/l	0.00 82.14%
74) 1,4-Dichlorobenzene-d4	13.61	152	290230	50.00	ug/l	0.00 82.81%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	150650	50.31	ug/l	0.00
Spiked Amount	50.000	Range 85 - 115	Recovery	=	100.62%	
40) 1,2-Dichloroethane-d4	7.56	65	141892	49.61	ug/l	0.00
Spiked Amount	50.000	Range 70 - 120	Recovery	=	99.22%	
55) Toluene-d8	10.30	98	448256	51.53	ug/l	0.00
Spiked Amount	50.000	Range 85 - 120	Recovery	=	103.06%	
76) 4-Bromofluorobenzene	12.68	95	187857	49.79	ug/l	0.00
Spiked Amount	50.000	Range 75 - 120	Recovery	=	99.58%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	2892	0.52	ug/l	96
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	2.65	96	74	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	0.00	43	0	N.D.	d	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.88	76	595	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.28	84	65	Below Cal	#	40
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	3.68	73	118	N.D.		

slabson

(#) = qualifier out of range (m) = manual integration
 Y0502015.D Y8260W.M Mon May 05 11:42:24 2008

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502015.D
 Acq On : 2 May 2008 12:16
 Sample : JPL102-005
 Misc : #5 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 11:42 2008

Vial: 11
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	5.51	96	59		N.D.	
30) 2-Butanone	5.67	43	56		N.D.	
31) Propionitrile	5.84	54	56		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	6.77	97	60		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.64	78	65		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	8.82	130	240		N.D.	
46) Methylcyclohexane	9.07	83	71		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	10.23	43	217		N.D.	
56) Toluene	10.37	92	151		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	10.97	43	122		N.D.	
63) Dibromochloromethane	10.93	129	59		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	0.00	112	0		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

5/6/08 CPA

(#) = qualifier out of range (m) = manual integration
 Y0502015.D Y8260W.M Mon May 05 11:42:24 2008

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502015.D
 Acq On : 2 May 2008 12:16
 Sample : JPL102-005
 Misc : #5 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 11:42 2008

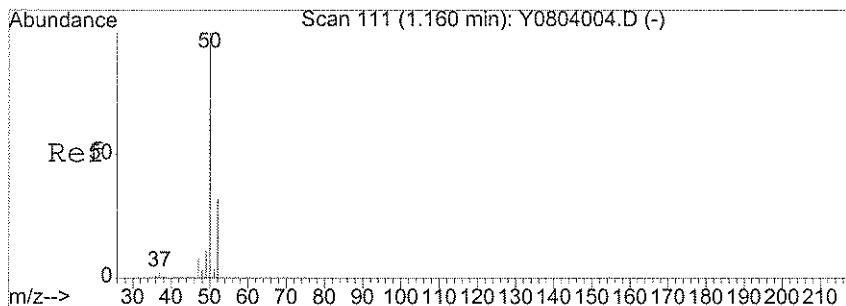
Vial: 11
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

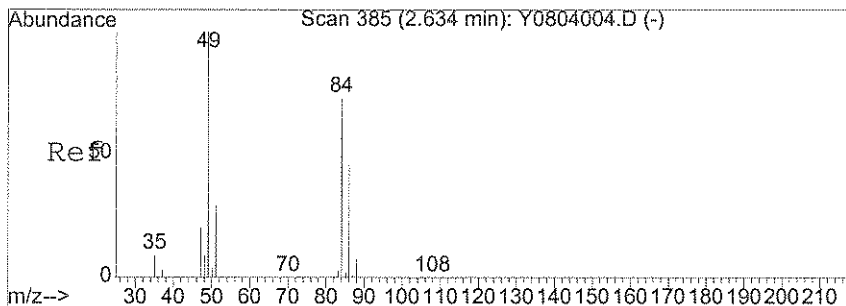
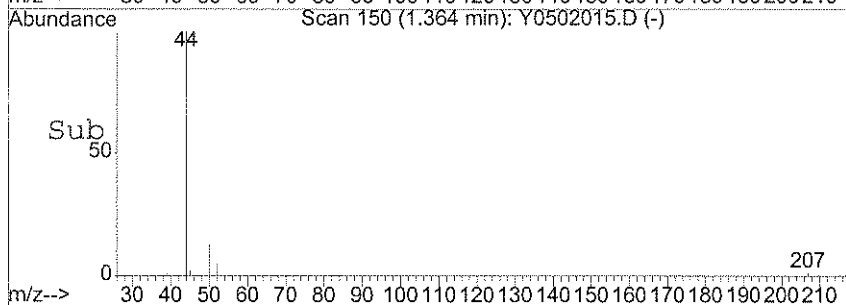
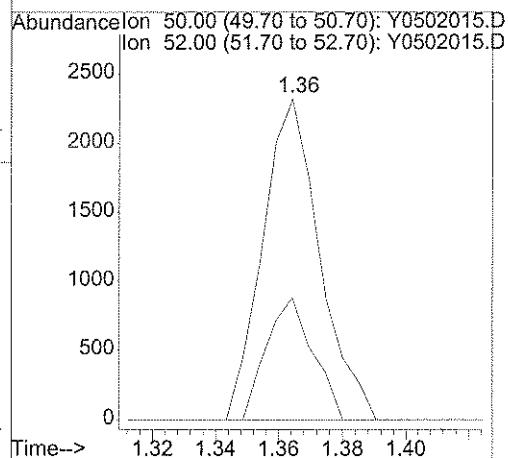
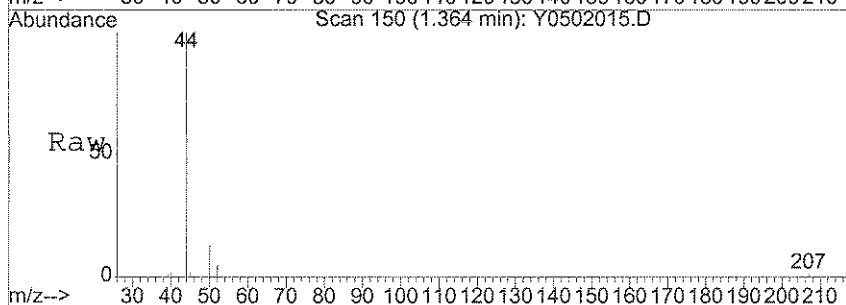
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	144		N.D.	
69) m,p-Xylene	11.91	106	227		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	12.66	173	60		N.D.	
73) Isopropylbenzene	12.57	105	83		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	0.00	156	0		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.67	83	122		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.96	91	80		N.D.	
82) 4-Chlorotoluene	13.05	91	66		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	68		N.D.	
88) 4-Isopropyltoluene	13.59	119	198		N.D.	
89) 1,4-Dichlorobenzene	13.62	146	250		N.D.	
90) 1,2-Dichlorobenzene	13.92	146	60		N.D.	
91) n-Butylbenzene	13.92	91	108		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.42	75	55		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	203		N.D.	
94) Hexachlorobutadiene	15.30	225	142		N.D.	
95) Naphthalene	15.36	128	214		N.D.	
96) 1,2,3-Trichlorobenzene	15.55	180	179		N.D.	

sl/08/05



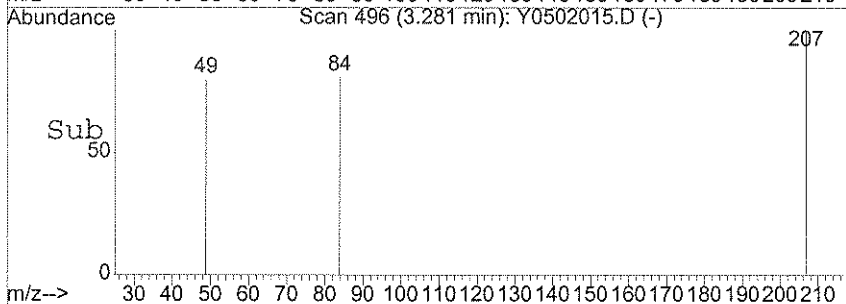
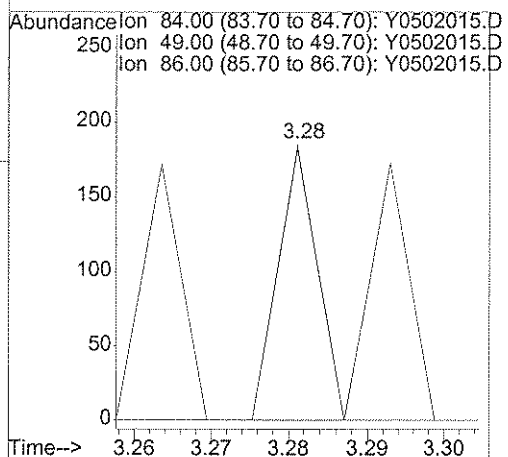
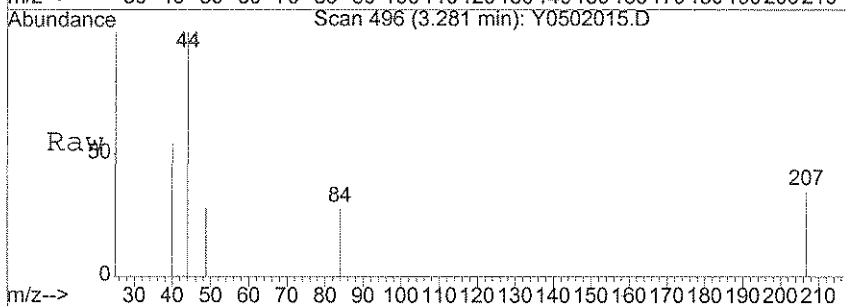
#3
 Chloromethane
 Concen: 0.52 ug/l
 RT: 1.36 min Scan# 150
 Delta R.T. -0.01 min
 Lab File: Y0502015.D
 Acq: 2 May 2008 12:16

Tgt Ion	Resp	Lower	Upper
50	2892		
52	30.8	13.0	53.0



#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.28 min Scan# 496
 Delta R.T. 0.01 min
 Lab File: Y0502015.D
 Acq: 2 May 2008 12:16

Tgt Ion	Resp	Lower	Upper
84	65		
49	192.3	112.5	152.5#
86	0.0	39.5	79.5#



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-05-04/29/08

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-006
 Lab File ID: Y0502016.D
 Date Collected: 04/29/2008
 Date/Time Analyzed: 05/02/2008 12:41
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.65	
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-05-04/29/08

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-006
 Lab File ID: Y0502016.D
 Date Collected: 04/29/2008
 Date/Time Analyzed: 05/02/2008 12:41
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-05-04/29/08

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-006
 Lab File ID: Y0502016.D
 Date Collected: 04/29/2008
 Date/Time Analyzed: 05/02/2008 12:41
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

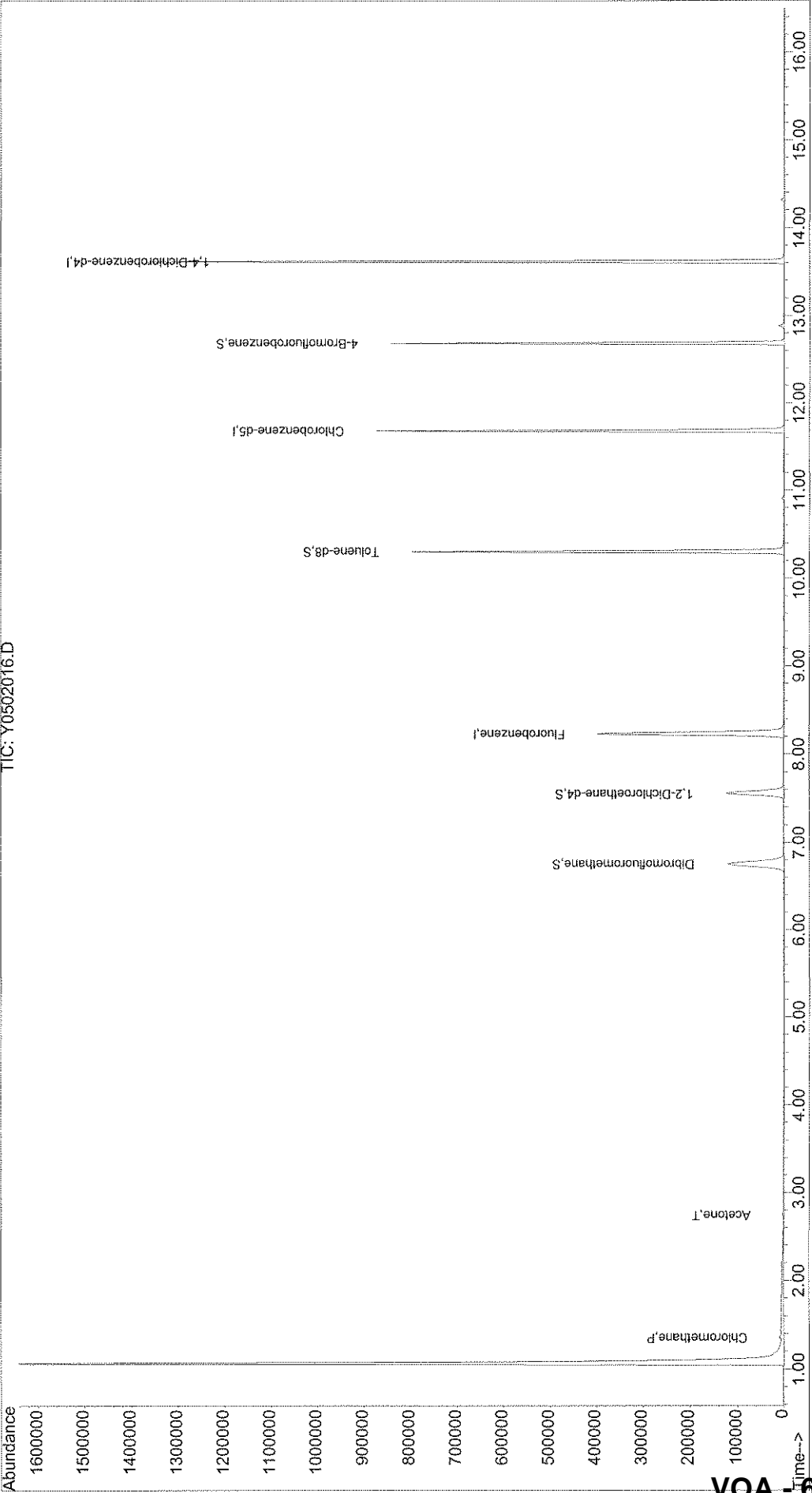
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502016.D Vial: 12
Acq On : 2 May 2008 12:41 Operator: LPM
Sample : JPL102-006 Inst : Yoda
Misc : #2 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 5 12:07 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502016.D
 Acq On : 2 May 2008 12:41
 Sample : JPL102-006
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:07 2008

Vial: 12
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	479154	50.00	ug/l	0.00	93.84%
54) Chlorobenzene-d5	11.68	82	211207	50.00	ug/l	0.00	86.35%
74) 1,4-Dichlorobenzene-d4	13.61	152	302183	50.00	ug/l	0.00	86.22%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	159727	50.96	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	101.92%	
40) 1,2-Dichloroethane-d4	7.56	65	147746	49.35	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.70%	
55) Toluene-d8	10.30	98	468246	51.20	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	102.40%	
76) 4-Bromofluorobenzene	12.68	95	194191	49.43	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	98.86%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	3756	0.65	ug/l	98
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.74	43	3279	2.88	ug/l	92
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	370	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.28	84	680	Below Cal	#	86
19) trans-1,2-Dichloroethene	3.66	96	58	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.	d	
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

delos cm

(#) = qualifier out of range (m) = manual integration
 Y0502016.D Y8260W.M Mon May 05 12:07:17 2008

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502016.D
 Acq On : 2 May 2008 12:41
 Sample : JPL102-006
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:07 2008

Vial: 12
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	5.64	96	63		N.D.	
30) 2-Butanone	5.65	43	56		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.62	78	54		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	9.58	41	55		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.36	92	69		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.90	97	54		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.29	43	121		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	69		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

stefan

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

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502016.D
 Acq On : 2 May 2008 12:41
 Sample : JPL102-006
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:07 2008

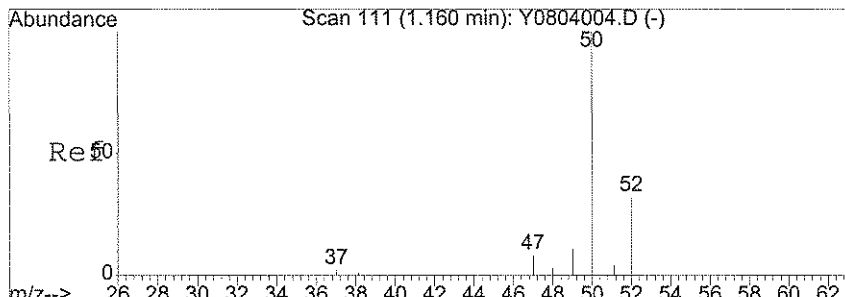
Vial: 12
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

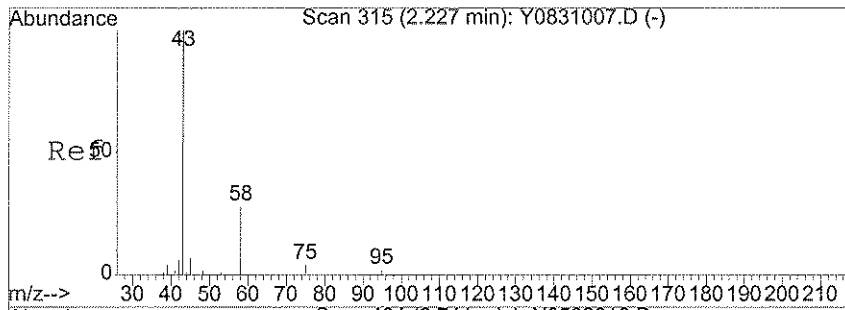
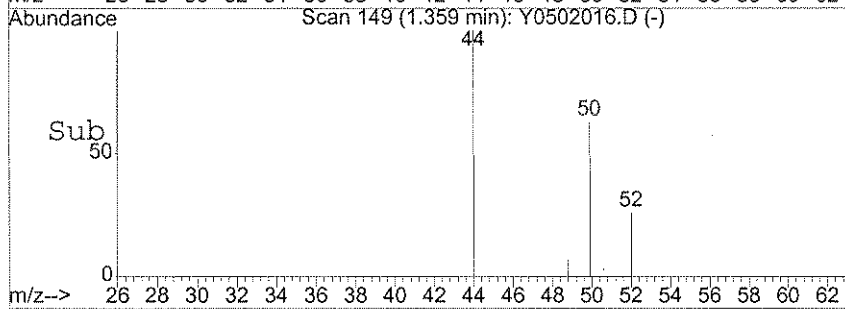
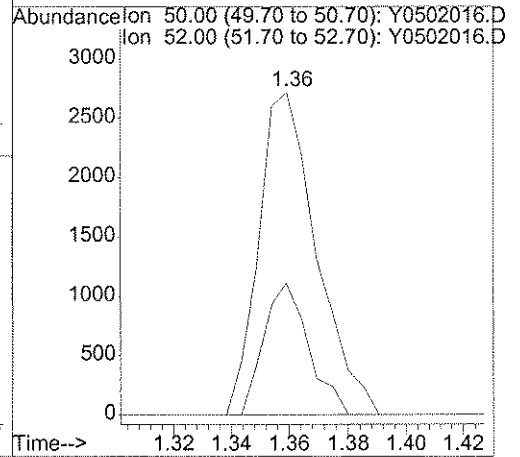
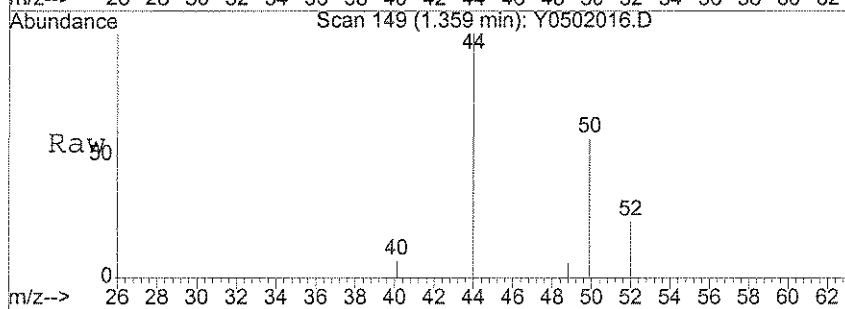
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.83	91	73		N.D.	
69) m,p-Xylene	11.91	106	136		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	12.66	173	55		N.D.	
73) Isopropylbenzene	12.68	105	565		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	0.00	156	0		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.68	83	86		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.96	91	79		N.D.	
82) 4-Chlorotoluene	13.05	91	54		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	145		N.D.	
88) 4-Isopropyltoluene	13.60	119	389		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	109		N.D.	
90) 1,2-Dichlorobenzene	13.92	146	129		N.D.	
91) n-Butylbenzene	13.91	91	332		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	145		N.D.	
94) Hexachlorobutadiene	15.30	225	146		N.D.	
95) Naphthalene	15.36	128	76		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	108		N.D.	

stetson



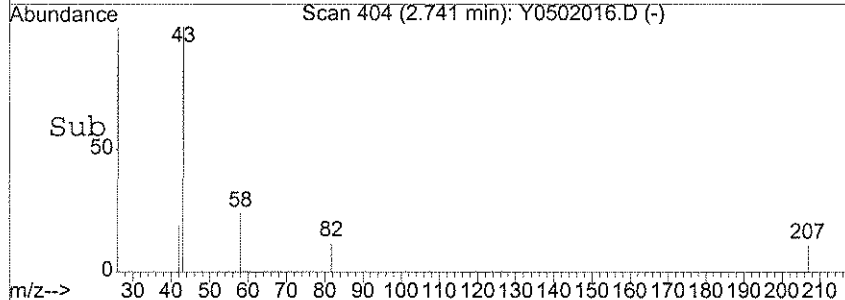
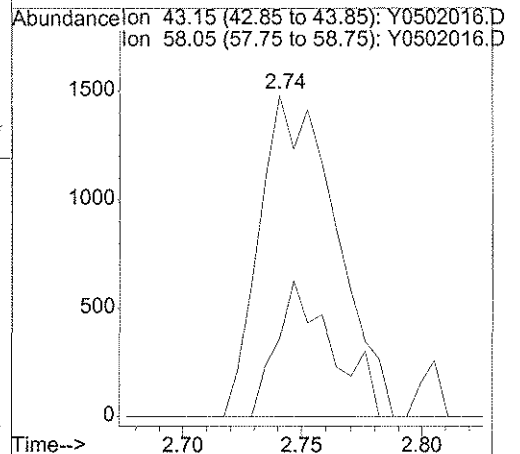
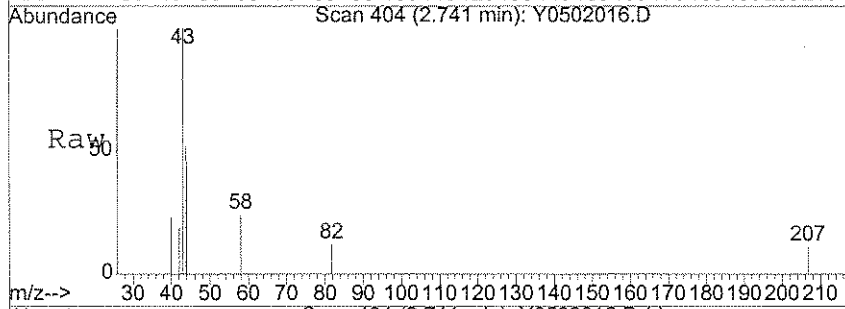
#3
 Chloromethane
 Concen: 0.65 ug/l
 RT: 1.36 min Scan# 149
 Delta R.T. -0.01 min
 Lab File: Y0502016.D
 Acq: 2 May 2008 12:41

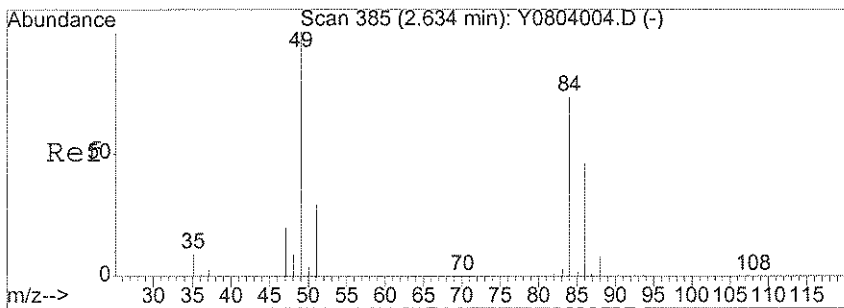
Tgt Ion: 50 Resp: 3756
 Ion Ratio Lower Upper
 50 100
 52 31.8 13.0 53.0



#11
 Acetone
 Concen: 2.88 ug/l
 RT: 2.74 min Scan# 404
 Delta R.T. 0.01 min
 Lab File: Y0502016.D
 Acq: 2 May 2008 12:41

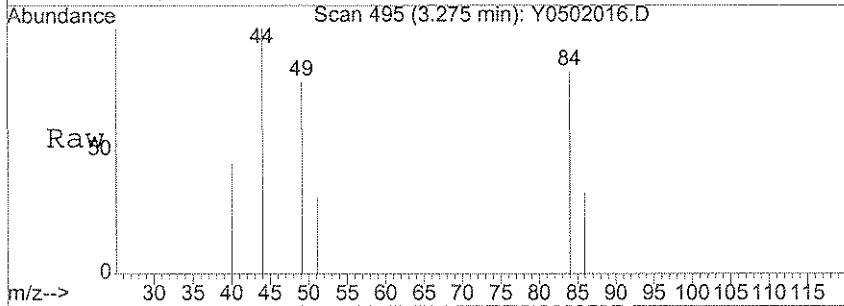
Tgt Ion: 43 Resp: 3279
 Ion Ratio Lower Upper
 43 100
 58 30.6 21.3 31.9



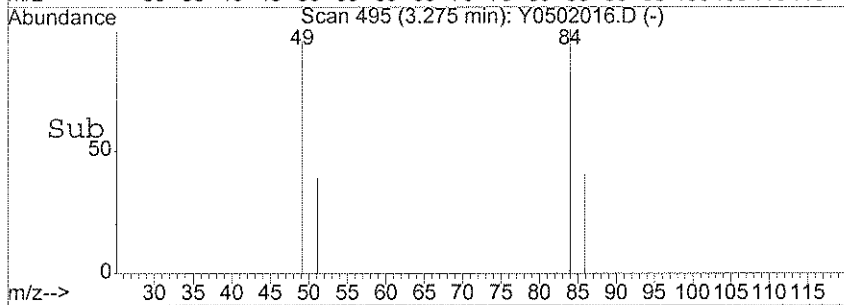
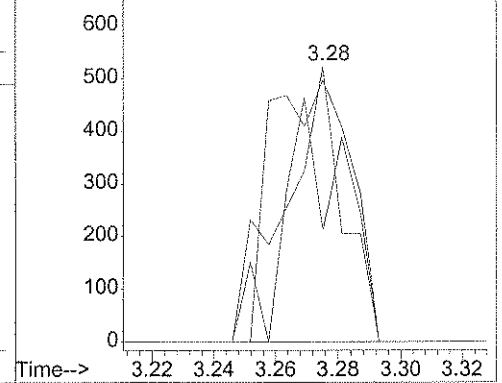


#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.28 min Scan# 495
 Delta R.T. 0.01 min
 Lab File: Y0502016.D
 Acq: 2 May 2008 12:41

Tgt Ion	Resp	Lower	Upper
84	100		
49	130.7	112.5	152.5
86	90.7	39.5	79.5#



Abundance Ion 84.00 (83.70 to 84.70): Y0502016.D
 Ion 49.00 (48.70 to 49.70): Y0502016.D
 Ion 86.00 (85.70 to 86.70): Y0502016.D



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-05-04/29/08

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-007
 Lab File ID: Y0502010.D
 Date Collected: 04/29/2008
 Date/Time Analyzed: 05/02/2008 10:13
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-05-04/29/08

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-007
 Lab File ID: Y0502010.D
 Date Collected: 04/29/2008
 Date/Time Analyzed: 05/02/2008 10:13
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-05-04/29/08

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-007
 Lab File ID: Y0502010.D
 Date Collected: 04/29/2008
 Date/Time Analyzed: 05/02/2008 10:13
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

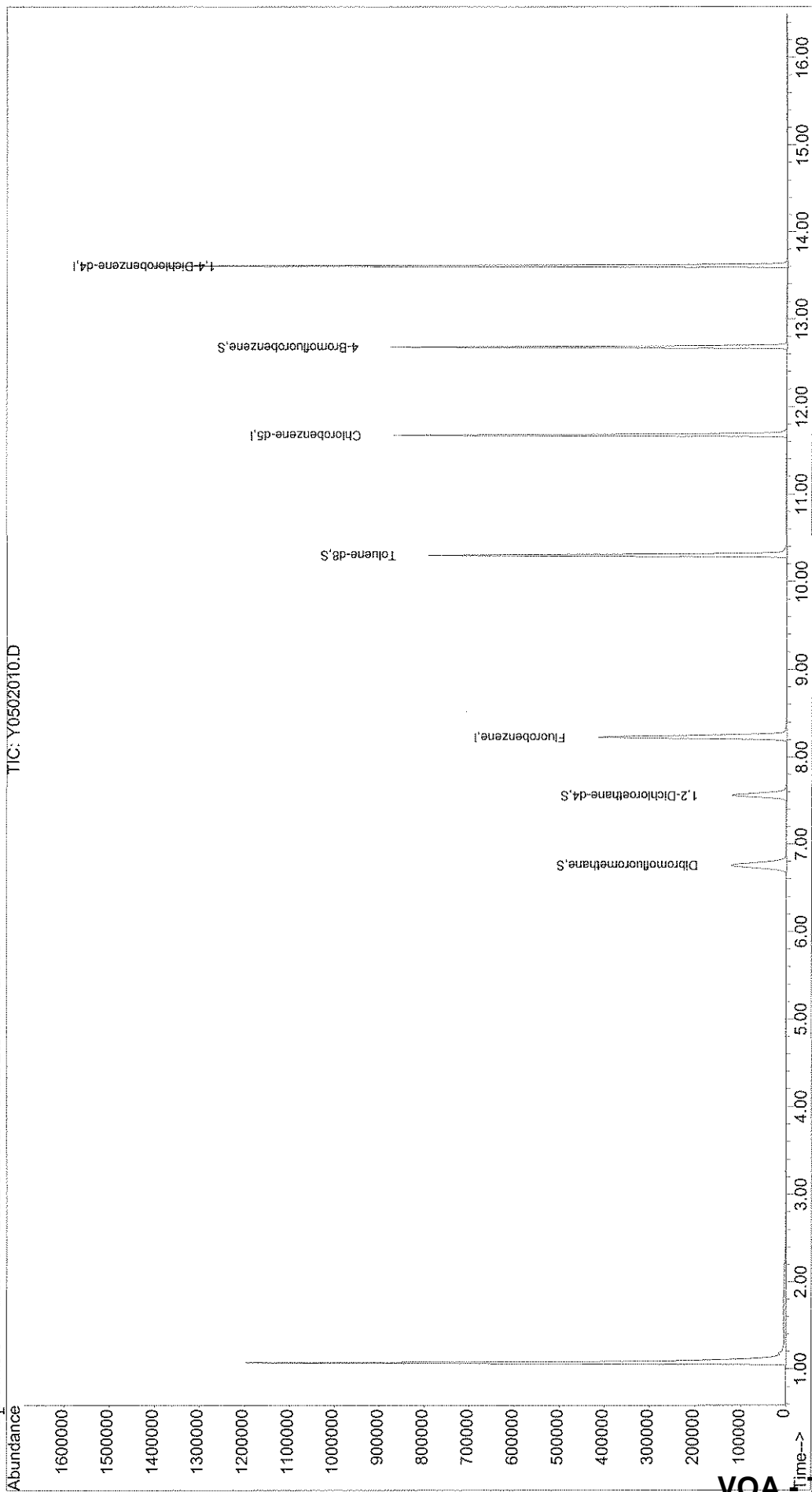
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502010.D Vial: 6
Acq On : 2 May 2008 10:13 Operator: LPM
Sample : JPL102-007 Inst : Yoda
Misc : #2 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 5 10:57 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



VOA 74

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502010.D
 Acq On : 2 May 2008 10:13
 Sample : JPL102-007
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 10:57 2008

Vial: 6
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	501090	50.00	ug/l	0.00	98.13%
54) Chlorobenzene-d5	11.68	82	218470	50.00	ug/l	0.00	89.32%
74) 1,4-Dichlorobenzene-d4	13.61	152	310852	50.00	ug/l	0.00	88.70%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	164626	50.22	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	100.44%	
40) 1,2-Dichloroethane-d4	7.56	65	150147	47.96	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.92%	
55) Toluene-d8	10.30	98	487658	51.55	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	103.10%	
76) 4-Bromofluorobenzene	12.68	95	202648	50.15	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	100.30%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	0.00	50	0	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	0.00	43	0	N.D.	d	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	868	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.28	84	642	Below Cal	#	68
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

5/6/08 LPM

(#) = qualifier out of range (m) = manual integration
 Y0502010.D Y8260W.M Mon May 05 10:57:13 2008

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502010.D
 Acq On : 2 May 2008 10:13
 Sample : JPL102-007
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 10:57 2008

Vial: 6
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	5.64	96	53		N.D.	
30) 2-Butanone	0.00	43	0		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.65	78	100		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	8.82	130	54		N.D.	
46) Methylcyclohexane	9.06	83	241		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.37	92	285		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0		N.D.	
60) Tetrachloroethene	10.93	166	57		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	0.00	43	0		N.D.	d
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.69	112	127		N.D.	
66) 1-Chlorohexane	11.70	91	252		N.D.	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

5/6/08 LPM

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502010.D
 Acq On : 2 May 2008 10:13
 Sample : JPL102-007
 Misc : #2 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 10:57 2008

Vial: 6
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	333		N.D.	
69) m,p-Xylene	11.91	106	126		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	12.26	104	106		N.D.	
72) Bromoform	12.66	173	61		N.D.	
73) Isopropylbenzene	12.56	105	156		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	0.00	156	0		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.68	83	85		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	12.90	120	75		N.D.	
81) 2-Chlorotoluene	12.96	91	72		N.D.	
82) 4-Chlorotoluene	13.05	91	258		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	195		N.D.	
88) 4-Isopropyltoluene	13.59	119	792		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	574		N.D.	
90) 1,2-Dichlorobenzene	13.92	146	143		N.D.	
91) n-Butylbenzene	13.90	91	647		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.18	180	532		N.D.	
94) Hexachlorobutadiene	0.00	225	0		N.D.	d
95) Naphthalene	15.35	128	394		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	284		N.D.	

Handwritten signature

TIC DATA

SDG #JPL102

Volatiles Analysis

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-19-5

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL102

Run Sequence: R027771

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL102-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0502011.D

Level: (LOW/MED) _____

Date Collected: 04/29/2008

% Moisture: not dec. _____

Date Analyzed: 05/02/2008

GC Column: DB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
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09				
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29				
30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050208\Y0502011.D Vial: 7
Acq On : 2 May 2008 10:37 Operator: LPM
Sample : JPL102-001 Inst : yoda
Misc : #3 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0502011.D Y8260W.M Wed May 14 10:13:56 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-19-4

Lab Name: Pace Analytical Services

SDG No.: JPL102

Matrix: (SOIL/WATER) Water

Sample wt/vol: 5.00 (g/mL) mL

Level: (LOW/MED) _____

% Moisture: not dec. _____

GC Column: DB-624 20m ID: 0.18 (mm)

Soil Extract Volume: _____ (uL)

Number TICs Found: 0

Contract: JPL Groundwater Monitorin

Run Sequence: R027771

Lab Sample ID: JPL102-002

Lab File ID: Y0502012.D

Date Collected: 04/29/2008

Date Analyzed: 05/02/2008

Dilution Factor: 1.0

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
ug/L

01	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
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21					
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26					
27					
28					
29					
30					

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050208\Y0502012.D Vial: 8
Acq On : 2 May 2008 11:02 Operator: LPM
Sample : JPL102-002 Inst : yoda
Misc : #2 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0502012.D Y8260W.M Wed May 14 10:14:03 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-19-3

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-003
 Lab File ID: Y0502013.D
 Date Collected: 04/29/2008
 Date Analyzed: 05/02/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
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23					
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25					
26					
27					
28					
29					
30					

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050208\Y0502013.D Vial: 9
Acq On : 2 May 2008 11:27 Operator: LPM
Sample : JPL102-003 Inst : yoda
Misc : #2 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0502013.D Y8260W.M Wed May 14 10:14:10 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-19-2

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-004
 Lab File ID: Y0502014.D
 Date Collected: 04/29/2008
 Date Analyzed: 05/02/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

01	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
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27					
28					
29					
30					

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050208\Y0502014.D Vial: 10
Acq On : 2 May 2008 11:52 Operator: LPM
Sample : JPL102-004 Inst : yoda
Misc : #3 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0502014.D Y8260W.M Wed May 14 10:14:17 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-19-1

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-005
 Lab File ID: Y0502015.D
 Date Collected: 04/29/2008
 Date Analyzed: 05/02/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
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29				
30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050208\Y0502015.D Vial: 11
Acq On : 2 May 2008 12:16 Operator: LPM
Sample : JPL102-005 Inst : yoda
Misc : #5 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0502015.D Y8260W.M Wed May 14 10:14:25 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-05-04/29/08

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-006
 Lab File ID: Y0502016.D
 Date Collected: 04/29/2008
 Date Analyzed: 05/02/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
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29				
30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050208\Y0502016.D Vial: 12
Acq On : 2 May 2008 12:41 Operator: LPM
Sample : JPL102-006 Inst : yoda
Misc : #2 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0502016.D Y8260W.M Wed May 14 10:14:32 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-05-04/29/08

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL102-007
 Lab File ID: Y0502010.D
 Date Collected: 04/29/2008
 Date Analyzed: 05/02/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
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19					
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21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050208\Y0502010.D Vial: 6
Acq On : 2 May 2008 10:13 Operator: LPM
Sample : JPL102-007 Inst : yoda
Misc : #2 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0502010.D Y8260W.M Wed May 14 10:13:49 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B050208MVOWY1

Lab Name: Pace Analytical Services
 SDG No.: JPL102
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: B050208MVOWY1
 Lab File ID: Y0502008.D
 Date Collected: _____
 Date Analyzed: 05/02/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
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29				
30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050208\Y0502008.D Vial: 5
Acq On : 2 May 2008 9:23 Operator: LPM
Sample : B050208MVOWY1 Inst : yoda
Misc : 5mL PFW+IS/SS(MV8-45-10) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0502008.D Y8260W.M Wed May 14 10:13:31 2008

Metals Data

JPL102

COVER PAGE-INORGANIC ANALYSES DATA PACKAGE

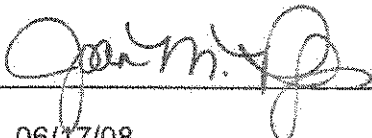
Lab Name: Page Analytical Services, Inc. Contract: JPL Groundwater Monitorin
 Lab Code: PAGE SDG No.: JPL102
 SOW No.: _____

Sample No.	Lab Sample ID
MW-19-5	JPL102-001
MW-19-4	JPL102-002
MW-19-3	JPL102-003
MW-19-2	JPL102-004
MW-19-1	JPL102-005
MW-19-1MS	JPL102-005MS
MW-19-1MSD	JPL102-005MSD
EB-05-04/29/08	JPL102-006

Were ICP interelement corrections applied? Yes/No YES
 Were ICP background corrections applied? Yes/No NO
 If yes-was raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is technically complete, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:  Name: Joan M. Phillips
 Date: 06/17/08 Title: Chemist

Metals Analysis Data Sheets

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-19-5

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL102

Matrix (soil/water): Water

Lab Sample ID: JPL102-001

Level (low/med): LOW

Date Received: 04/30/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028099
7440-70-2	Calcium	69400		N	P	R028139
7440-47-3	Chromium	1.00	U		M	R028099
7439-89-6	Iron	100	U		P	R028139
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	31100			P	R028139
7440-09-7	Potassium	5000	U		P	R028139
7440-23-5	Sodium	37700			P	R028139

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/16/2008 13:34

SW-846

-1-

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-19-4

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL102

Matrix (soil/water): Water

Lab Sample ID: JPL102-002

Level (low/med): LOW

Date Received: 04/30/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.11			M	R028099
7440-70-2	Calcium	54400		N	P	R028139
7440-47-3	Chromium	1.54			M	R028099
7439-89-6	Iron	100	U		P	R028139
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	23100			P	R028139
7440-09-7	Potassium	5000	U		P	R028139
7440-23-5	Sodium	35100			P	R028139

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/16/2008 13:34

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-19-3

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL102

Matrix (soil/water): Water

Lab Sample ID: JPL102-003

Level (low/med): LOW

Date Received: 04/30/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.07			M	R028099
7440-70-2	Calcium	59000		N	P	R028139
7440-47-3	Chromium	2.73			M	R028099
7439-89-6	Iron	100	U		P	R028139
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	20900			P	R028139
7440-09-7	Potassium	5000	U		P	R028139
7440-23-5	Sodium	31100			P	R028139

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/16/2008 13:34

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-19-2

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL102

Matrix (soil/water): Water

Lab Sample ID: JPL102-004

Level (low/med): LOW

Date Received: 04/30/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028099
7440-70-2	Calcium	113000		N	P	R028139
7440-47-3	Chromium	2.14			M	R028099
7439-89-6	Iron	294			P	R028139
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	40300			P	R028139
7440-09-7	Potassium	5000	U		P	R028139
7440-23-5	Sodium	36200			P	R028139

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/16/2008 13:34

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-19-1

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL102

Matrix (soil/water): Water

Lab Sample ID: JPL102-005

Level (low/med): LOW

Date Received: 04/30/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028099
7440-70-2	Calcium	48700		N	P	R028139
7440-47-3	Chromium	1.00	U		M	R028099
7439-89-6	Iron	100	U		P	R028139
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	15600			P	R028139
7440-09-7	Potassium	5000	U		P	R028139
7440-23-5	Sodium	14200			P	R028139

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/16/2008 13:34

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-05-04/29/08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL102

Matrix (soil/water): Water

Lab Sample ID: JPL102-006

Level (low/med): LOW

Date Received: 04/30/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028099
7440-70-2	Calcium	5000	U	N	P	R028139
7440-47-3	Chromium	1.00	U		M	R028099
7439-89-6	Iron	100	U		P	R028139
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	5000	U		P	R028139
7440-09-7	Potassium	5000	U		P	R028139
7440-23-5	Sodium	5000	U		P	R028139

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/16/2008 13:34

Miscellaneous Inorganic Data

JPL102

COVER PAGE-INORGANIC ANALYSES DATA PACKAGE

Lab Name: Pace Analytical Services, Inc.

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL102

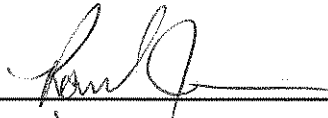
SOW No.: _____

Sample No.
MW-19-5
MW-19-4
MW-19-3
MW-19-2
MW-19-1
EB-05-04/29/08

Lab Sample ID
JPL102-001
JPL102-002
JPL102-003
JPL102-004
JPL102-005
JPL102-006

Comments:

I certify that this data package is technically complete, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: 

Name: Raul J. Nino

Date: June 03, 2008

Title: Inorganic Supervisor

Inorganic Analysis Data Sheets

Pace Analytical Services, Inc.

Final Results

Client: Battelle
 SDG Number: JPL102
 Sample Number: MW-19-5
 Lab Sample ID: JPL102-001

Project: JPL Groundwater Monitoring
 Date/Time Collected: 04/29/2008 07:43
 Date/Time Received: 04/30/2008 10:00

Method/Qbatch*: E150.1/28942
 Instrument: pH meter (1)

Unit: pH Units
 File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.5		0.10	0.10	04/30/2008	04/30/2008	R027749

Method/Qbatch*: E160.1/28901
 Instrument: Balance (01)

Unit: mg/L
 File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	430		2.0	2.0	04/30/2008	05/02/2008	R027706

Method/Qbatch*: E300.0/28900
 Instrument: Ion Chromatograph (2)

Unit: mg/L
 File: R027705\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	10	6.9		2.0	0.55	04/30/2008	04/30/2008	R027705
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/30/2008	04/30/2008	R027705
Sulfate as SO4	14808-79-8	10	78		10	1.7	04/30/2008	04/30/2008	R027705
Chloride	16887-00-6	10	75		10	0.76	04/30/2008	04/30/2008	R027705
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/30/2008	04/30/2008	R027705

Method/Qbatch*: E310.1/29215
 Instrument: None

Unit: mg/L
 File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/12/2008	05/12/2008	R027994
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	190		2.0	2.0	05/12/2008	05/12/2008	R027994

*QBatch=QC/Preparation Batch
 FORM LTL-RSR-27.0

Pace Analytical Services, Inc.

Final Results

Client: Battelle
SDG Number: JPL102
Sample Number: MW-19-5
Lab Sample ID: JPL102-001
Method/Qbatch*: E314.0/29567
Instrument: Ion Chromatograph (2)

Project: JPL Groundwater Monitoring
Date/Time Collected: 04/29/2008 07:43
Date/Time Received: 04/30/2008 10:00
Unit: ug/L
File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.5		2.0	0.28	05/22/2008	05/23/2008	R028313

*QBatch=QC/Preparation Batch
FORM LTL-RSR-27.0

Pace Analytical Services, Inc.

Final Results

Client: Battelle
 SDG Number: JPL102
 Sample Number: MW-19-4
 Lab Sample ID: JPL102-002

Project: JPL Groundwater Monitoring
 Date/Time Collected: 04/29/2008 08:18
 Date/Time Received: 04/30/2008 10:00

Method/Qbatch*: E150.1/28942
 Instrument: pH meter (1)

Unit: pH Units
 File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.6		0.10	0.10	04/30/2008	04/30/2008	R027749

Method/Qbatch*: E160.1/28901
 Instrument: Balance (01)

Unit: mg/L
 File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	350		2.0	2.0	04/30/2008	05/02/2008	R027706

Method/Qbatch*: E300.0/28900
 Instrument: Ion Chromatograph (2)

Unit: mg/L
 File: R027705\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	10	7.6		2.0	0.55	04/30/2008	04/30/2008	R027705
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/30/2008	04/30/2008	R027705
Sulfate as SO4	14808-79-8	10	55		10	1.7	04/30/2008	04/30/2008	R027705
Chloride	16887-00-6	10	48		10	0.76	04/30/2008	04/30/2008	R027705
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/30/2008	04/30/2008	R027705

Method/Qbatch*: E310.1/29215
 Instrument: None

Unit: mg/L
 File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/12/2008	05/12/2008	R027994
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	170		2.0	2.0	05/12/2008	05/12/2008	R027994

*QBatch=QC/Preparation Batch
 FORM LTL-RSR-27.0

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring
SDG Number: JPL102 Date/Time Collected: 04/29/2008 08:18
Sample Number: MW-19-4 Date/Time Received: 04/30/2008 10:00
Lab Sample ID: JPL102-002
Method/Qbatch*: E314.0/29567 Unit: ug/L
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	3.1		2.0	0.28	05/22/2008	05/23/2008	R028313

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring
 SDG Number: JPL102
 Sample Number: MW-19-3 Date/Time Collected: 04/29/2008 08:53
 Lab Sample ID: JPL102-003 Date/Time Received: 04/30/2008 10:00

Method/Qbatch*: E150.1/28942 Unit: pH Units
 Instrument: pH meter (1) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.2		0.10	0.10	04/30/2008	04/30/2008	R027749

Method/Qbatch*: E160.1/28901 Unit: mg/L
 Instrument: Balance (01) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	350		2.0	2.0	04/30/2008	05/02/2008	R027706

Method/Qbatch*: E300.0/28900 Unit: mg/L
 Instrument: Ion Chromatograph (2) File: R027705\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	10	9.3		2.0	0.55	04/30/2008	04/30/2008	R027705
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/30/2008	04/30/2008	R027705
Sulfate as SO4	14808-79-8	10	46		10	1.7	04/30/2008	04/30/2008	R027705
Chloride	16887-00-6	10	47		10	0.76	04/30/2008	04/30/2008	R027705
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/30/2008	04/30/2008	R027705

Method/Qbatch*: E310.1/29215 Unit: mg/L
 Instrument: None File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/12/2008	05/12/2008	R027994
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	170		2.0	2.0	05/12/2008	05/12/2008	R027994

*QBatch=QC/Preparation Batch
 FORM LTL-RSR-27.0

Pace Analytical Services, Inc.

Final Results

Client: Battelle
SDG Number: JPL102
Sample Number: MW-19-3
Lab Sample ID: JPL102-003
Method/Qbatch*: E314.0/29567
Instrument: Ion Chromatograph (2)

Project: JPL Groundwater Monitoring
Date/Time Collected: 04/29/2008 08:53
Date/Time Received: 04/30/2008 10:00
Unit: ug/L
File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	3.7		2.0	0.28	05/22/2008	05/23/2008	R028313

Pace Analytical Services, Inc.

Final Results

Client: Battelle
SDG Number: JPL102
Sample Number: MW-19-2
Lab Sample ID: JPL102-004

Project: JPL Groundwater Monitoring
Date/Time Collected: 04/29/2008 09:25
Date/Time Received: 04/30/2008 10:00

Method/Qbatch*: E150.1/28942
Instrument: pH meter (1)

Unit: pH Units
File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	6.9		0.10	0.10	04/30/2008	04/30/2008	R027749

Method/Qbatch*: E160.1/28901
Instrument: Balance (01)

Unit: mg/L
File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	600		2.0	2.0	04/30/2008	05/02/2008	R027706

Method/Qbatch*: E300.0/28900
Instrument: Ion Chromatograph (2)

Unit: mg/L
File: R027705\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	20	15		4.0	1.1	04/30/2008	04/30/2008	R027705
Nitrite - N	14797-65-0	20	2.0	U	2.0	0.34	04/30/2008	04/30/2008	R027705
Sulfate as SO4	14808-79-8	20	160		20	3.4	04/30/2008	04/30/2008	R027705
Chloride	16887-00-6	20	110		20	1.5	04/30/2008	04/30/2008	R027705
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/30/2008	04/30/2008	R027705

Method/Qbatch*: E310.1/29215
Instrument: None

Unit: mg/L
File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/12/2008	05/12/2008	R027994
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	200		2.0	2.0	05/12/2008	05/12/2008	R027994

*QBatch=QC/Preparation Batch
 FORM LTL-RSR-27.0

Pace Analytical Services, Inc.

Final Results

Client: Battelle
SDG Number: JPL102
Sample Number: MW-19-2
Lab Sample ID: JPL102-004
Method/Qbatch*: E314.0/29567
Instrument: Ion Chromatograph (2)

Project: JPL Groundwater Monitoring
Date/Time Collected: 04/29/2008 09:25
Date/Time Received: 04/30/2008 10:00
Unit: ug/L
File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	6.0		4.0	0.56	05/22/2008	05/23/2008	R028313

Pace Analytical Services, Inc.

Final Results

Client: Battelle
SDG Number: JPL102
Sample Number: MW-19-1
Lab Sample ID: JPL102-005

Project: JPL Groundwater Monitoring
Date/Time Collected: 04/29/2008 10:07
Date/Time Received: 04/30/2008 10:00

Method/Qbatch*: E150.1/28942
Instrument: pH meter (1)

Unit: pH Units
File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.7		0.10	0.10	04/30/2008	04/30/2008	R027749

Method/Qbatch*: E160.1/28901
Instrument: Balance (01)

Unit: mg/L
File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	230		2.0	2.0	04/30/2008	05/02/2008	R027706

Method/Qbatch*: E300.0/28900
Instrument: Ion Chromatograph (2)

Unit: mg/L
File: R027705\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	2.0		0.20	0.055	04/30/2008	04/30/2008	R027705
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/30/2008	04/30/2008	R027705
Sulfate as SO4	14808-79-8	10	32		10	1.7	04/30/2008	04/30/2008	R027705
Chloride	16887-00-6	10	18		10	0.76	04/30/2008	04/30/2008	R027705
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/30/2008	04/30/2008	R027705

Method/Qbatch*: E310.1/29215
Instrument: None

Unit: mg/L
File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/12/2008	05/12/2008	R027994
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	150		2.0	2.0	05/12/2008	05/12/2008	R027994

*QBatch=QC/Preparation Batch
 FORM LTL-RSR-27.0

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring
SDG Number: JPL102
Sample Number: MW-19-1 Date/Time Collected: 04/29/2008 10:07
Lab Sample ID: JPL102-005 Date/Time Received: 04/30/2008 10:00
Method/Qbatch*: E314.0/29567 Unit: ug/L
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	05/22/2008	05/23/2008	R028313

Pace Analytical Services, Inc.

Final Results

Client:	Battelle	Project:	JPL Groundwater Monitoring
SDG Number:	JPL102		
Sample Number:	EB-05-04/29/08	Date/Time Collected:	04/29/2008 09:48
Lab Sample ID:	JPL102-006	Date/Time Received:	04/30/2008 10:00
Method/Qbatch*:	E150.1/28942	Unit:	pH Units
Instrument:	pH meter (1)	File:	N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.7		0.10	0.10	04/30/2008	04/30/2008	R027749

Method/Qbatch*:	E160.1/28901	Unit:	mg/L
Instrument:	Balance (01)	File:	N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	2.0	U	2.0	2.0	04/30/2008	05/02/2008	R027706

Method/Qbatch*:	E300.0/28900	Unit:	mg/L
Instrument:	Ion Chromatograph (2)	File:	R027705\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.20	U	0.20	0.055	04/30/2008	04/30/2008	R027705
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	04/30/2008	04/30/2008	R027705
Sulfate as SO4	14808-79-8	1	1.0	U	1.0	0.17	04/30/2008	04/30/2008	R027705
Chloride	16887-00-6	1	1.0	U	1.0	0.076	04/30/2008	04/30/2008	R027705
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	04/30/2008	04/30/2008	R027705

Method/Qbatch*:	E310.1/29215	Unit:	mg/L
Instrument:	None	File:	N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/12/2008	05/12/2008	R027994
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	2.0		2.0	2.0	05/12/2008	05/12/2008	R027994

Pace Analytical Services, Inc.

Final Results

Client: Battelle
SDG Number: JPL102
Sample Number: EB-05-04/29/08
Lab Sample ID: JPL102-006
Method/Qbatch*: E314.0/29567
Instrument: Ion Chromatograph (2)

Project: JPL Groundwater Monitoring
Date/Time Collected: 04/29/2008 09:48
Date/Time Received: 04/30/2008 10:00
Unit: ug/L
File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	05/22/2008	05/23/2008	R028313

*QBatch=QC/Preparation Batch
FORM LTL-RSR-27.0

PACE ANALYTICAL SERVICES, INC.

SAMPLE DATA PACKAGE

BATTELLE

SDG NO.: JPL103

June 12, 2008

Pace Analytical Services, Inc.
 940 S. Harney
 Seattle, WA 98108

To: Battelle
 Project Name: JPL Groundwater
 SDG No.: JPL103
 Date of Report: June 12, 2008

SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:

Sample Receipt and Identification:

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<u>Client Sample Identification</u>	<u>Pace Sample Identification</u>	<u>Testing Analytical Request</u>
MW-20-5	JPL103-001	VOA/MET/INO
MW-20-4	JPL103-002	VOA/MET/INO
MW-20-3	JPL103-003	VOA/MET/INO
MW-20-2	JPL103-004	VOA/MET/INO
MW-20-1	JPL103-005	VOA/MET/INO
EB-06-04/30/08	JPL103-006	VOA/MET/INO
TB-06-04/30/08	JPL103-007	VOA

Analytical Request Key:

VOA = Volatiles (524.2)
 MET = Metals (200.7/200.8)
 INO = Chloride, Nitrate, Nitrite, Sulfate, Ortho phosphorus (300.0)
 Alkalinity (310.1)
 Perchlorate (314.0)
 Total Dissolved Solids (160.1)
 pH (150.1)

Summary of NELAC test accreditation

Determination	NELAC approved
150.1 pH	YES
160.1 Total Dissolved Solids	YES
200.7 K, Na, Mg, Ca, Fe	YES
200.8 As, Cr, Pb	YES
300.0 NO3, NO2, Cl, SO4, OPO4	YES
310.1M Carb./Bicarb. Alkalinity	YES
314.0 Perchlorate	YES
524.2 Volatile Organics + TICs (JPL Special list)	YES
TurMet for 200.7/200.8 TurMet	NO

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Seattle, WA 98108

We assert that the results reported here relate only to the samples listed in this report.

Sample Receipt Comments:

Two of two VOA vials for TB-06-04/30/08 contained bubbles less than ¼ of an inch in size.

Sample MW-20-5 was received after the analytical holding time had expired for pH. Sample MW-20-4 was received within holding time but went out of hold while being logged in. All other samples are close to holding times for pH.

GENERAL REMARKS ON ORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

Manual Integrations:

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

Holding Time Compliance:

Volatile Organic Compounds:

The holding time is 14 days calculated from the date of collection in both soil and water samples. All samples were analyzed within holding time.

Volatiles Fraction:

All quality control parameters were met.

GENERAL REMARKS ON INORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

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Seattle, WA 98108

ICP Metals:

On the first timed and dated page of each ICP run, the data to be reported or rejected will be tabulated for that run.

SPECIFIC REMARKS ON INORGANIC ANALYSES:

Holding Time Compliance:

Pace calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None
Chloride	28 days	None
Sulfate	28 days	None
Nitrate	48 hours	None
Nitrite	48 hours	None
Ortho phosphorus	48 hours	None
Alkalinity	14 days	None
Total Dissolved Solids	7 days	None
pH	24 hours	None

ICP Metals:

The serial dilution for the element magnesium did not agree within 10% of the original determination after correction for dilution for sample MW-20-1. No further corrective action was required. All relevant data have been flagged with an "E" on the applicable Forms 1 and 9.

For the run sequence R028272, the final CCV fell below the lower control limit for iron. Only sample results for iron for sample EB-06-04/30/08 were associated with this CCV. All samples, except sample EB-06-04/30/08, were reported for iron from R028272. Sample EB-06-04/30/08 was reanalyzed and reported for iron from run sequence R028697. No further corrective action was required. Data have not been flagged for this event.

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Miscellaneous Inorganics:

In the run sequence R027754 for "300.0 Anions", the matrix spike and matrix spike duplicate exceeded the established lower control limit for orthophosphate. Since all of the other quality control samples were in control, no further action was taken.

In the run sequence R027833 for "314.0 Perchlorate", the matrix sample and matrix sample duplicate, and continuing calibration verification standard 3 exceeded the established upper control limit. None of the samples reported had results above the reporting limit, no further action was taken.

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ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
- J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
- T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
- E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
- P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
- C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
- ~ This result has been identified as non-primary based on the analyst's professional judgment.

CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

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INORGANIC ANALYSES:

- J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.
- E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.
- N Spiked sample recovery not within control limits.
- * Duplicate analysis not within control limits.
- Z Denotes data deemed unusable by the analyst.

CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

Pace Analytical Services, Inc.
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Seattle, WA 98108

RELEASE OF DATA

Pace Analytical Services, Inc. certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,


for
Kara Godineaux
Project Manager

6/13/08
(DATE)


Harry Romberg
Quality Assurance Officer

6/13/08
(DATE)

HOW TO CONTACT US:

All Pace Analytical Services, Inc. staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

REQUESTS FOR DUPLICATE COPIES:

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Pace will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

ATTACHMENT A

Chain-of-Custody Copies

PACE ANALYTICAL SERVICES, INC. - SAMPLE CONFIRMATION LOG

Sample Mix ID (SDG-#)	VTSR	Collected On	Client ID	150.1 PH	160.1 Total Dissolved Solids	200.7 K, Na, Mg, Ca, Fe	200.8 As, Cr, Pb	300.0 NO ₂ , Cl, SO ₄ , OPO ₄	310.1M Carb./Bicarb. Alkalinity	314.0 Perchlorate	524.2 Volatile Organics + TICS (JPL Special list)	TurMet for 200.7/200.8 TurMet
WD JPL103-001	05/01/2008 08:35 AM	04/30/2008 08:05 AM	MW-20-5	A-	IN	IN	IN	A-	IN	IN	IN	IN
WD JPL103-002	05/01/2008 08:35 AM	04/30/2008 08:47 AM	MW-20-4	A-	IN	IN	IN	A-	IN	IN	IN	IN
WD JPL103-003	05/01/2008 08:35 AM	04/30/2008 09:30 AM	MW-20-3	A-	IN	IN	IN	A-	IN	IN	IN	IN
WD JPL103-004	05/01/2008 08:35 AM	04/30/2008 10:10 AM	MW-20-2	A-	IN	IN	IN	A-	IN	IN	IN	IN
WD *JPL103-005	05/01/2008 08:35 AM	04/30/2008 10:54 AM	MW-20-1	A-	IN	IN	IN	A-	IN	IN	IN	IN
WD JPL103-006	05/01/2008 08:35 AM	04/30/2008 10:32 AM	EB-06-04/30/08	A-	IN	IN	IN	A-	IN	IN	IN	IN
WD JPL103-007	05/01/2008 08:35 AM	04/30/2008 12:00 AM	TE-06-04/30/08								IN	

Approved By:

On:

Notes:

Samples identified with a * client has requested QC for
LEGEND: -:Started , +:Completed , IN:Logged In , P:Preparation , A:Analysis , X:Cancelled, PL:Pre-logged
 Matrices: Water=WD

FORM LTL-PM-8.0

Supplemental Sample Receipt Log
Pace Analytical Services, Inc.

SDG: JPL103
Cooler: AAD822
Temperatures: 4.3
COC #: 46069

Sample	Bottle #	Bottle Description	pH	Bubbles
JPL103-001	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL103-002	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL103-003	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL103-004	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL103-005	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL103-006	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL103-007	0001	40 ml OTWS, clear glass, HCl	N/C	< 1/4

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2
 Base Preserved pH pH must be greater than 12
 NC Not Checked for pH

**Supplemental Sample Receipt Log
Pace Analytical Services, Inc.**

SDG: JPL103
Cooler: AAD822
Temperatures: 4.3
COC #: 46069

Sample	Bottle #	Bottle Description	pH	Bubbles
	0002	40 ml OTWS, clear glass, HCl	N/C	< 1/4

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2

Base Preserved pH pH must be greater than 12

NC Not Checked for pH

Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

ATTACHMENT B

Index

Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

Battelle

SDG No.: JPL103

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Completed and checked by: Judy Ecklund Date: 6/16/08

QC SUMMARY

SDG JPL103

VOLATILES ANALYSIS

2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL103

Run Sequence: R027771

Level: (LOW/MED) NONE

CLIENT SAMPLE NUMBER	SMC1 (DCA) #	SMC2 (BFB) #	SMC3 (TOL) #	SMC4 () #	TOT OUT
(JPL103-005MSD) MW-20-1MSD	94	107	106		0
(JPL103-005MS) MW-20-1MS	96	107	106		0
(JPL103-006) EB-06-04/30/08	99	105	104		0
(JPL103-005) MW-20-1	99	103	101		0
(JPL103-004) MW-20-2	98	101	101		0
(JPL103-003) MW-20-3	100	101	105		0
(JPL103-002) MW-20-4	100	100	103		0
(JPL103-001) MW-20-5	99	100	103		0
(JPL103-007) TB-06-04/30/08	100	98	102		0
(B050208MVOWY1) B050208MVOWY1	100	102	106		0
(S050208MVOWY1) S050208MVOWY1	93	107	105		0

QC LIMITS

SMC1 (DCA) =	1,2-Dichloroethane-d4	60-140
SMC2 (BFB) =	4-Bromofluorobenzene	60-140
SMC3 (TOL) =	Toluene-d8	60-140
SMC4 () =		

Column to be used to flag recovery values
* Values outside of contract required QC limits

3B
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin

BS Run Sequence: R027771 SDG No.: JPL103

BS Lab Sample ID: S050208MVOWY1

Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
Dichlorodifluoromethane	50.0	38.82	78		60-140
Chloromethane	50.0	35.22	70		60-140
Vinyl chloride	50.0	39.05	78		60-140
Bromomethane	50.0	40.7	81		60-140
Chloroethane	50.0	40.67	81		60-140
Trichlorofluoromethane	50.0	46.84	94		60-140
1,1-Dichloroethene	50.0	47.54	95		60-140
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.47	91		60-140
Methylene chloride	50.0	44.69	89		60-140
Methyl tert-butyl ether	50.0	40.32	81		60-140
trans-1,2-Dichloroethene	50.0	45.07	90		60-140
1,1-Dichloroethane	50.0	42.93	86		60-140
2,2-Dichloropropane	50.0	51.75	104		60-140
cis-1,2-Dichloroethene	50.0	46.74	93		60-140
2-Butanone	50.0	51.74	103		60-140
Bromochloromethane	50.0	46.37	93		60-140
Chloroform	50.0	43.16	86		60-140
1,1,1-Trichloroethane	50.0	47.84	96		60-140
Carbon tetrachloride	50.0	50.39	101		60-140
1,1-Dichloropropene	50.0	52.09	104		60-140
Benzene	50.0	46.64	93		60-140
1,2-Dichloroethane	50.0	46.37	93		60-140
Trichloroethene	50.0	49.01	98		60-140
1,2-Dichloropropane	50.0	46.34	93		60-140
Dibromomethane	50.0	46.6	93		60-140
Bromodichloromethane	50.0	50.84	102		60-140
cis-1,3-Dichloropropene	50.0	68.71	137		60-140
4-Methyl-2-pentanone	50.0	51.93	104		60-140
Toluene	50.0	54.46	109		60-140
trans-1,3-Dichloropropene	50.0	59.31	119		60-140
1,1,2-Trichloroethane	50.0	50.82	102		60-140
Tetrachloroethene	50.0	55.09	110		60-140
1,3-Dichloropropane	50.0	54.86	110		60-140
Dibromochloromethane	50.0	59.77	120		60-140

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

Spike Recovery: 0 out of 63 outside limits

COMMENTS:

Date Printed: 5/19/2008 9:53

3B
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin

BS Run Sequence: R027771 SDG No.: JPL103

BS Lab Sample ID: S050208MVOWY1

Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
1,2-Dibromoethane	50.0	55.27	111		60-140
Chlorobenzene	50.0	52.34	105		60-140
Ethylbenzene	50.0	53.21	106		60-140
1,1,1,2-Tetrachloroethane	50.0	49.1	98		60-140
m,p-Xylene	100	109.1	109		60-140
o-Xylene	50.0	52.55	105		60-140
Styrene	50.0	55.39	111		60-140
Bromoform	50.0	57.32	115		60-140
Isopropylbenzene	50.0	55.17	110		60-140
1,1,2,2-Tetrachloroethane	50.0	48.79	98		60-140
n-Propylbenzene	50.0	56.85	114		60-140
Bromobenzene	50.0	56.67	113		60-140
1,2,3-Trichloropropane	50.0	50.82	102		60-140
2-Chlorotoluene	50.0	52.76	106		60-140
1,3,5-Trimethylbenzene	50.0	51.58	103		60-140
4-Chlorotoluene	50.0	53.1	106		60-140
tert-Butylbenzene	50.0	52.62	105		60-140
1,2,4-Trimethylbenzene	50.0	52.03	104		60-140
sec-Butylbenzene	50.0	51.82	104		60-140
4-Isopropyltoluene	50.0	57.44	115		60-140
1,3-Dichlorobenzene	50.0	49.84	100		60-140
1,4-Dichlorobenzene	50.0	48.23	96		60-140
n-Butylbenzene	50.0	52.69	105		60-140
1,2-Dichlorobenzene	50.0	48.68	97		60-140
1,2-Dibromo-3-chloropropane	50.0	45.57	91		60-140
1,2,4-Trichlorobenzene	50.0	52.96	106		60-140
Hexachlorobutadiene	50.0	51.63	103		60-140
Naphthalene	50.0	52.64	105		60-140
1,2,3-Trichlorobenzene	50.0	50.03	100		60-140

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

Spike Recovery: 0 out of 63 outside limits

COMMENTS:

Date Printed: 5/19/2008 9:53

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorMS Run Sequence: R027771 MSD Run Sequence: R027771 SDG No.: JPL103MS Client Sample No.: MW-20-1MS MSD Client Sample No.: MW-20-1MSDMS Lab Sample ID: JPL103-005MS MSD Lab Sample ID: JPL103-005MSDLevel: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
Dichlorodifluoromethane	0	50.0	32.99	66	50.0	35.05	70	6	30	60-140
Chloromethane	0.36	50.0	32.44	64	50.0	32.97	65	2	30	60-140
Vinyl chloride	0	50.0	35.14	70	50.0	37.18	74	6	30	60-140
Bromomethane	0	50.0	38.67	77	50.0	38.16	76	1	30	60-140
Chloroethane	0	50.0	38.58	77	50.0	39.49	79	2	30	60-140
Trichlorofluoromethane	0	50.0	43.65	87	50.0	43.22	86	1	30	60-140
1,1-Dichloroethene	0	50.0	42.05	84	50.0	41.96	84	0	30	60-140
1,1,2-Trichloro-1,2,2-trifluoroethane	0	50.0	41.59	83	50.0	42.87	86	3	30	60-140
Methylene chloride	0	50.0	42.37	85	50.0	39.61	79	7	30	60-140
Methyl tert-butyl ether	0	50.0	42.85	86	50.0	42.48	85	1	30	60-140
trans-1,2-Dichloroethene	0	50.0	41.52	83	50.0	40.5	81	3	30	60-140
1,1-Dichloroethane	0	50.0	39.17	78	50.0	38.66	77	1	30	60-140
2,2-Dichloropropane	0	50.0	42.13	84	50.0	41	82	3	30	60-140
cis-1,2-Dichloroethene	0	50.0	42.94	86	50.0	41.62	83	3	30	60-140
2-Butanone	0	50.0	43.74	87	50.0	46.56	93	6	30	60-140
Bromochloromethane	0	50.0	42.61	85	50.0	41.06	82	4	30	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

@ This RPD or percent recovery is not flagged as an exceedence because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 0 out of 63 outside limitsSpike Recovery: 0 out of 126 outside limits

COMMENTS:

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorMS Run Sequence: R027771 MSD Run Sequence: R027771 SDG No.: JPL103MS Client Sample No.: MW-20-1MS MSD Client Sample No.: MW-20-1MSDMS Lab Sample ID: JPL103-005MS MSD Lab Sample ID: JPL103-005MSDLevel: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
Chloroform	0	50.0	40.63	81	50.0	39.5	79	3	30	60-140
1,1,1-Trichloroethane	0	50.0	45.29	91	50.0	44.3	89	2	30	60-140
Carbon tetrachloride	0	50.0	47.22	94	50.0	46.36	93	2	30	60-140
1,1-Dichloropropene	0	50.0	47.01	94	50.0	47.38	95	1	30	60-140
Benzene	0	50.0	43.19	86	50.0	43.65	87	1	30	60-140
1,2-Dichloroethane	0	50.0	41.79	84	50.0	41.15	82	2	30	60-140
Trichloroethene	0	50.0	44.67	89	50.0	45.36	91	2	30	60-140
1,2-Dichloropropane	0	50.0	43.42	87	50.0	43.65	87	1	30	60-140
Dibromomethane	0	50.0	42.34	85	50.0	42.54	85	1	30	60-140
Bromodichloromethane	0	50.0	46.62	93	50.0	46.86	94	1	30	60-140
cis-1,3-Dichloropropene	0	50.0	58.78	118	50.0	63.34	127	8	30	60-140
4-Methyl-2-pentane	0	50.0	42.31	85	50.0	44.48	89	5	30	60-140
Toluene	0	50.0	50.17	100	50.0	50.93	102	2	30	60-140
trans-1,3-Dichloropropene	0	50.0	49.08	98	50.0	52.2	104	6	30	60-140
1,1,2-Trichloroethane	0	50.0	44.84	90	50.0	46.49	93	4	30	60-140
Tetrachloroethene	0	50.0	49.53	99	50.0	49.68	99	0	30	60-140
1,3-Dichloropropane	0	50.0	48.35	97	50.0	50.4	101	4	30	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

@ This RPD or percent recovery is not flagged as an exceedence because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 0 out of 63 outside limitsSpike Recovery: 0 out of 126 outside limits

COMMENTS:

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorMS Run Sequence: R027771 MSD Run Sequence: R027771 SDG No.: JPL103MS Client Sample No.: MW-20-1MS MSD Client Sample No.: MW-20-1MSDMS Lab Sample ID: JPL103-005MS MSD Lab Sample ID: JPL103-005MSDLevel: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
Dibromochloromethane	0	50.0	53.39	107	50.0	54.24	108	2	30	60-140
1,2-Dibromoethane	0	50.0	49.08	98	50.0	50.54	101	3	30	60-140
Chlorobenzene	0	50.0	47.23	94	50.0	48.75	98	3	30	60-140
Ethylbenzene	0	50.0	48.16	96	50.0	48.87	98	2	30	60-140
1,1,1,2-Tetrachloroethane	0	50.0	45.62	91	50.0	44.93	90	2	30	60-140
m,p-Xylene	0	100	99.21	99	100	100.14	100	1	30	60-140
o-Xylene	0	50.0	47.95	96	50.0	47.67	95	1	30	60-140
Styrene	0	50.0	50.53	101	50.0	51.29	103	2	30	60-140
Bromoform	0	50.0	47.52	95	50.0	48.67	97	2	30	60-140
Isopropylbenzene	0	50.0	50.95	102	50.0	50.73	101	0	30	60-140
1,1,2,2-Tetrachloroethane	0	50.0	42.78	86	50.0	42.22	84	1	30	60-140
n-Propylbenzene	0	50.0	51.88	104	50.0	51.28	103	1	30	60-140
Bromobenzene	0	50.0	50.97	102	50.0	51.4	103	1	30	60-140
1,2,3-Trichloropropane	0	50.0	38.73	77	50.0	39.54	79	2	30	60-140
2-Chlorotoluene	0	50.0	48.03	96	50.0	48.13	96	0	30	60-140
1,3,5-Trimethylbenzene	0	50.0	47.91	96	50.0	47.24	94	1	30	60-140
4-Chlorotoluene	0	50.0	48.71	97	50.0	49.15	98	1	30	60-140
tert-Butylbenzene	0	50.0	48.9	98	50.0	48.46	97	1	30	60-140
1,2,4-Trimethylbenzene	0	50.0	48.01	96	50.0	47.52	95	1	30	60-140
sec-Butylbenzene	0	50.0	47.43	95	50.0	47.3	95	0	30	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

@ This RPD or percent recovery is not flagged as an exceedence because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 0 out of 63 outside limitsSpike Recovery: 0 out of 126 outside limits

COMMENTS:

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitor
 MS Run Sequence: R027771 MSD Run Sequence: R027771 SDG No.: JPL103
 MS Client Sample No.: MW-20-1MS MSD Client Sample No.: MW-20-1MSD
 MS Lab Sample ID: JPL103-005MS MSD Lab Sample ID: JPL103-005MSD
 Level: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
4-Isopropyltoluene	0	50.0	52.22	104	50.0	51.28	103	2	30	60-140
1,3-Dichlorobenzene	0	50.0	45.33	91	50.0	45.77	92	1	30	60-140
1,4-Dichlorobenzene	0	50.0	44.23	88	50.0	43.52	87	2	30	60-140
n-Butylbenzene	0	50.0	46.16	92	50.0	45.23	90	2	30	60-140
1,2-Dichlorobenzene	0	50.0	44.33	89	50.0	43.58	87	2	30	60-140
1,2-Dibromo-3-chloropropane	0	50.0	39.46	79	50.0	37.67	75	5	30	60-140
1,2,4-Trichlorobenzene	0	50.0	46.64	93	50.0	45.04	90	4	30	60-140
Hexachlorobutadiene	0	50.0	45.84	92	50.0	45.23	90	1	30	60-140
Naphthalene	0	50.0	45.92	92	50.0	44.49	89	3	30	60-140
1,2,3-Trichlorobenzene	0	50.0	44.03	88	50.0	43.12	86	2	30	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

@ This RPD or percent recovery is not flagged as an exceedence because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 0 out of 63 outside limits

Spike Recovery: 0 out of 126 outside limits

COMMENTS:

4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B050208MVOWY1

Lab Name Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL103

Lab File ID: Y0502008.D

Lab Sample ID: B050208MVOWY1

Date Analyzed: 05/02/2008

Time Analyzed: 09:23

GC Column: DB-624 20m ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: 5973Y

Matrix: Water

	CLIENT SAMPLE NO.	LAB SAMPLE ID.	LAB FILE ID.	DATE ANALYZED	TIME ANALYZED	RUN SEQUENCE
01	S050208MVOWY1	S050208MVOWY1	Y0502005.D	05/02/2008	08:07	R027771
02	TB-06-04/30/08	JPL103-007	Y0502017.D	05/02/2008	13:06	R027771
03	MW-20-5	JPL103-001	Y0502018.D	05/02/2008	13:31	R027771
04	MW-20-4	JPL103-002	Y0502019.D	05/02/2008	13:55	R027771
05	MW-20-3	JPL103-003	Y0502020.D	05/02/2008	14:20	R027771
06	MW-20-2	JPL103-004	Y0502021.D	05/02/2008	14:45	R027771
07	MW-20-1	JPL103-005	Y0502022.D	05/02/2008	15:10	R027771
08	EB-06-04/30/08	JPL103-006	Y0502023.D	05/02/2008	15:34	R027771
09	MW-20-1MS	JPL103-005MS	Y0502027.D	05/02/2008	17:13	R027771
10	MW-20-1MSD	JPL103-005MSD	Y0502028.D	05/02/2008	17:38	R027771
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COMMENTS:

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

BFBY5

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 Run Sequence: CAL1310 SDG No.: JPL103
 Lab File ID: Y0414036.D BFB Injection Date: 04/14/2008
 Instrument ID: 5973Y BFB Injection Time: 21:43
 GC Column DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	17.8
75	30% to 60% of mass 95	48.1
95	base peak. 100% relative abundance	100
96	5% to 9% of mass 95	6.8
173	less than 2% of mass 174	0()1
174	greater than 50% of mass 95	99.4
175	5% to 9% of mass 17	7.2()1
176	greater than 95%. but less than 101% of mass 174	95.4()1
177	5% to 9% of mass 176	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 SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0.3	VSTD0.3	Y0414037.D	04/14/2008	22:08
02	VSTD0.5	VSTD0.5	Y0414038.D	04/14/2008	22:33
03	VSTD001	VSTD001	Y0414039.D	04/14/2008	22:58
04	VSTD005	VSTD005	Y0414040.D	04/14/2008	23:22
05	VSTD010	VSTD010	Y0414041.D	04/14/2008	23:47
06	VSTD050	VSTD050	Y0414042.D	04/15/2008	00:12
07	VSTD100	VSTD100	Y0414043.D	04/15/2008	00:36
08	VSTD200	VSTD200	Y0414044.D	04/15/2008	01:01
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22					

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

BFBY1

Lab Name: Pace Analytical Services Contract: _____
 Run Sequence: R027335 SDG No.: NBS013 JPL103 LH 5/19/08
 Lab File ID: Y0415011.D BFB Injection Date: 04/15/2008
 Instrument ID: 5973Y BFB Injection Time: 09:55
 GC Column DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	18
75	30% to 60% of mass 95	48.6
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	6.6
173	less than 2% of mass 174	0()1
174	greater than 50% of mass 95	94.8
175	5% to 9% of mass 17	8.3()1
176	greater than 95%, but less than 101% of mass 174	99.1()1
177	5% to 9% of mass 176	6.1()2

1 - Value is %mass 174

2 - Value is %mass 176

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	<u>TCV/S041508MVOWY2</u>	<u>S041508MVOWY2</u>	<u>Y0415015.D</u>	<u>04/15/2008</u>	<u>11:39</u>
02	<u>LH 5/19/08</u>				
03					
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14					
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17					
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19					
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22					

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

BFBY1

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 Run Sequence: R027771 SDG No.: JPL103
 Lab File ID: Y0502003.D BFB Injection Date: 05/02/2008
 Instrument ID: 5973Y BFB Injection Time: 07:10
 GC Column DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	18.5
75	30% to 60% of mass 95	47.3
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	6.5
173	less than 2% of mass 174	0()1
174	greater than 50% of mass 95	101.4
175	5% to 9% of mass 17	8.4()1
176	greater than 95%, but less than 101% of mass 174	100.5()1
177	5% to 9% of mass 176	6.5()2

1 - Value is %mass 174

2 - Value is %mass 176

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050Y1	VSTD050Y1	Y0502004.D	05/02/2008	07:34
02	S050208MVOWY1	S050208MVOWY1	Y0502005.D	05/02/2008	08:07
03	B050208MVOWY1	B050208MVOWY1	Y0502008.D	05/02/2008	09:23
04	TB-06-04/30/08	JPL103-007	Y0502017.D	05/02/2008	13:06
05	MW-20-5	JPL103-001	Y0502018.D	05/02/2008	13:31
06	MW-20-4	JPL103-002	Y0502019.D	05/02/2008	13:55
07	MW-20-3	JPL103-003	Y0502020.D	05/02/2008	14:20
08	MW-20-2	JPL103-004	Y0502021.D	05/02/2008	14:45
09	MW-20-1	JPL103-005	Y0502022.D	05/02/2008	15:10
10	EB-06-04/30/08	JPL103-006	Y0502023.D	05/02/2008	15:34
11	MW-20-1MS	JPL103-005MS	Y0502027.D	05/02/2008	17:13
12	MW-20-1MSD	JPL103-005MSD	Y0502028.D	05/02/2008	17:38
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitoring
 Run Sequence: R027771 SDG No.: JPL103
 Client Sample No.(VSTD050##): VSTD050Y1 Date Analyzed: 05/02/2008
 Lab File ID (Standard): Y0502004.D Time Analyzed: 07:34
 Instrument ID: 5973Y Heated Purge: (Y/N) N
 GC Column: DB-624 20m ID: 0.18 (mm)

	IS1 (FBZ) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	507702	8.23	233931	11.68	304094	13.61
UPPER LIMIT	1015404	8.28	467862	11.73	608188	13.66
LOWER LIMIT	253851	8.18	116965.5	11.63	152047	13.56
CLIENT SAMPLE NO.						
01 S050208MVOWY1	527312	8.23	242619	11.68	318689	13.61
02 B050208MVOWY1	501429	8.23	209883	11.68	299792	13.61
03 TB-06-04/30/08	458930	8.23	197983	11.68	288344	13.61
04 MW-20-5	470615	8.23	211983	11.68	300936	13.61
05 MW-20-4	486413	8.23	215454	11.68	307136	13.61
06 MW-20-3	481959	8.23	216485	11.68	308021	13.61
07 MW-20-2	504283	8.23	227909	11.68	312666	13.61
08 MW-20-1	496573	8.23	239244	11.68	319837	13.61
09 EB-06-04/30/08	509434	8.23	238806	11.68	321150	13.61
10 MW-20-1MS	530754	8.23	244353	11.68	321986	13.61
11 MW-20-1MSD	538778	8.23	256521	11.68	337275	13.61
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (FBZ) = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

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

SAMPLE DATA

SDG JPL103

VOLATILES ANALYSIS

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-5

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-001
 Lab File ID: Y0502018.D
 Date Collected: 04/30/2008
 Date/Time Analyzed: 05/02/2008 13:31
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.47	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-5

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-001
 Lab File ID: Y0502018.D
 Date Collected: 04/30/2008
 Date/Time Analyzed: 05/02/2008 13:31
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.39	J
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-5

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-001
 Lab File ID: Y0502018.D
 Date Collected: 04/30/2008
 Date/Time Analyzed: 05/02/2008 13:31
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

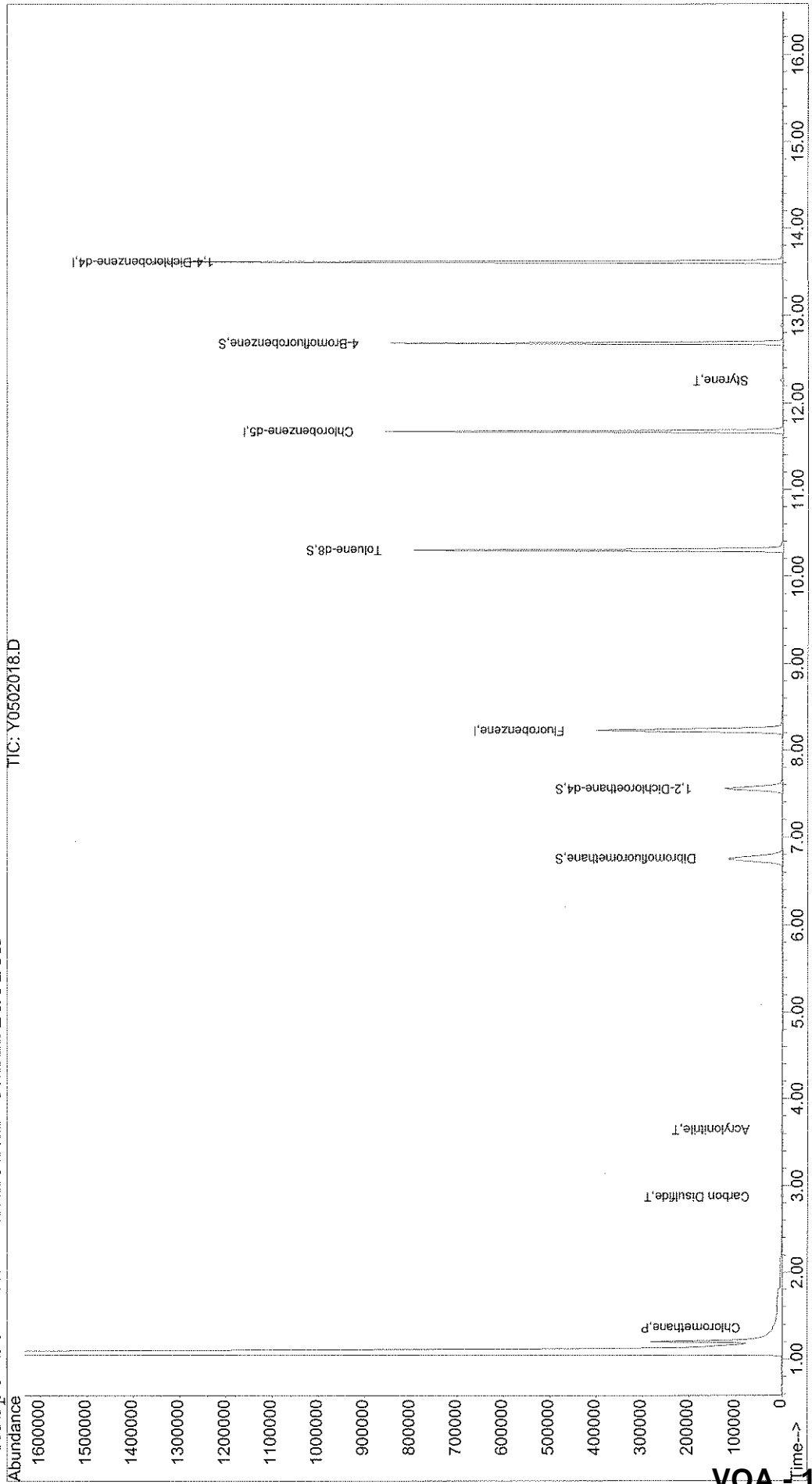
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502018.D
Acq On : 2 May 2008 13:31 Vial: 14
Sample : JPL103-001 Operator: LPM
Misc : #3 5mL+IS/SS(MV8-45-10) (524) Inst : yoda
MS Integration Params: rteint.p Multiplr: 1.00
Quant Time: May 5 12:28 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502018.D
 Acq On : 2 May 2008 13:31
 Sample : JPL103-001
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:28 2008

Vial: 14
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	470615	50.00	ug/l	0.00	92.16%
54) Chlorobenzene-d5	11.68	82	211983	50.00	ug/l	0.00	86.67%
74) 1,4-Dichlorobenzene-d4	13.61	152	300936	50.00	ug/l	0.00	85.87%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	157641	51.21	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	102.42%	
40) 1,2-Dichloroethane-d4	7.55	65	145887	49.61	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.22%	
55) Toluene-d8	10.30	98	473674	51.60	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	103.20%	
76) 4-Bromofluorobenzene	12.68	95	196144	50.14	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	100.28%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	2698	0.47	ug/l	100
4) Vinyl Chloride	1.47	62	503	N.D.		
5) Bromomethane	1.76	96	70	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	0.00	43	0	N.D.	d	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.88	76	3310	0.26	ug/l	100
15) Allyl chloride	3.12	76	146	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.29	84	162	Below Cal	#	49
19) trans-1,2-Dichloroethene	3.72	96	57	N.D.		
20) Acrylonitrile	3.65	53	1643	1.41	ug/l	# 34
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	3.69	73	807	N.D.		

5/5/08

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

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502018.D
 Acq On : 2 May 2008 13:31
 Sample : JPL103-001
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:28 2008

Vial: 14
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0	N.D.		
24) Vinyl acetate	0.00	43	0	N.D.		
25) Chloroprene	0.00	53	0	N.D.		
26) Isopropyl ether	0.00	45	0	N.D.		
27) Ethyl-t-butyl ether	0.00	59	0	N.D.		
28) 2,2-Dichloropropane	0.00	77	0	N.D.		
29) cis-1,2-Dichloroethene	0.00	96	0	N.D.		
30) 2-Butanone	0.00	43	0	N.D.	d	
31) Propionitrile	0.00	54	0	N.D.	d	
32) Bromochloromethane	0.00	128	0	N.D.		
33) Methacrylonitrile	0.00	41	0	N.D.		
34) Chloroform	0.00	83	0	N.D.		
35) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
37) Cyclohexane	0.00	56	0	N.D.		
38) Carbon Tetrachloride	0.00	117	0	N.D.		
39) 1,1-Dichloropropene	7.18	75	62	N.D.		
41) Benzene	7.65	78	328	N.D.		
42) 1,2-Dichloroethane	0.00	62	0	N.D.		
43) Isobutanol	0.00	43	0	N.D.	d	
44) t-amyl methyl ether	0.00	73	0	N.D.		
45) Trichloroethene	0.00	130	0	N.D.		
46) Methylcyclohexane	9.06	83	54	N.D.		
47) 1,2-Dichloropropane	0.00	63	0	N.D.		
48) Dibromomethane	0.00	93	0	N.D.		
49) Methyl methacrylate	0.00	41	0	N.D.		
50) Bromodichloromethane	0.00	83	0	N.D.		
51) 2-Chloroethyl vinyl ether	0.00	63	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	43	0	N.D.	d	
56) Toluene	10.37	92	423	N.D.		
57) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
58) Ethyl methacrylate	0.00	69	0	N.D.		
59) 1,1,2-Trichloroethane	10.91	97	153	N.D.		
60) Tetrachloroethene	10.91	166	91	N.D.		
61) 1,3-Dichloropropane	0.00	76	0	N.D.		
62) 2-Hexanone	11.07	43	56	N.D.		
63) Dibromochloromethane	0.00	129	0	N.D.		
64) 1,2-Dibromoethane	0.00	107	0	N.D.		
65) Chlorobenzene	11.71	112	74	N.D.		
66) 1-Chlorohexane	0.00	91	0	N.D.	d	
67) 1,1,1,2-Tetrachloroethane	11.94	131	59	N.D.		

Stobler

(#) = qualifier out of range (m) = manual integration
 Y0502018.D Y8260W.M Mon May 05 12:28:18 2008

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502018.D
 Acq On : 2 May 2008 13:31
 Sample : JPL103-001
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:28 2008

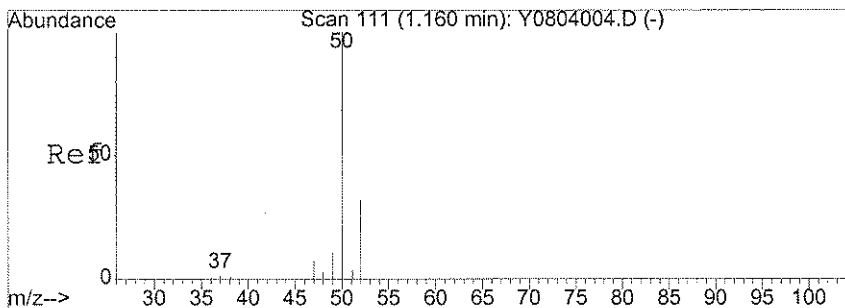
Vial: 14
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

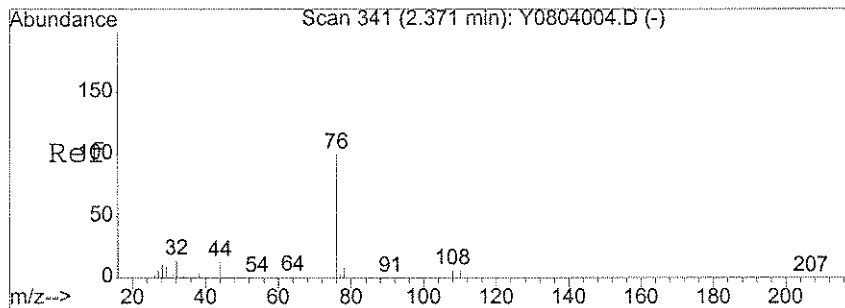
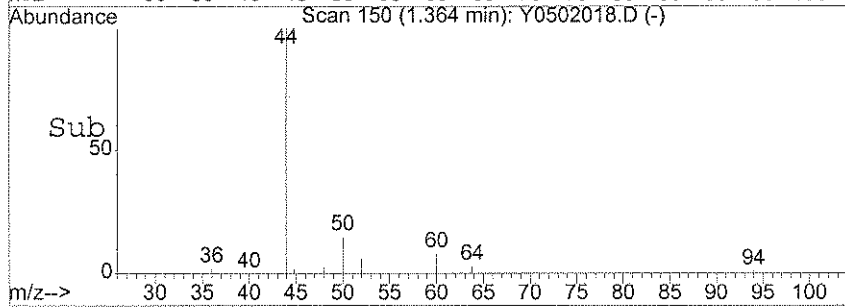
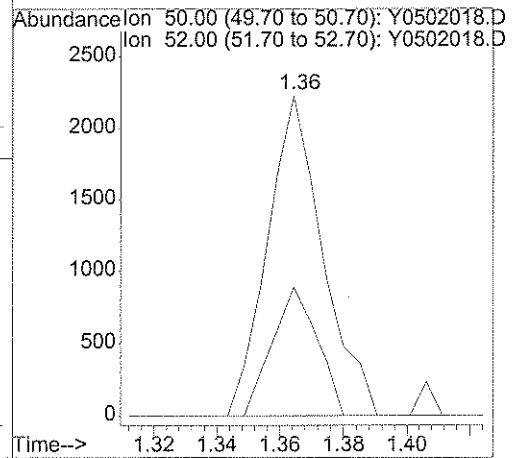
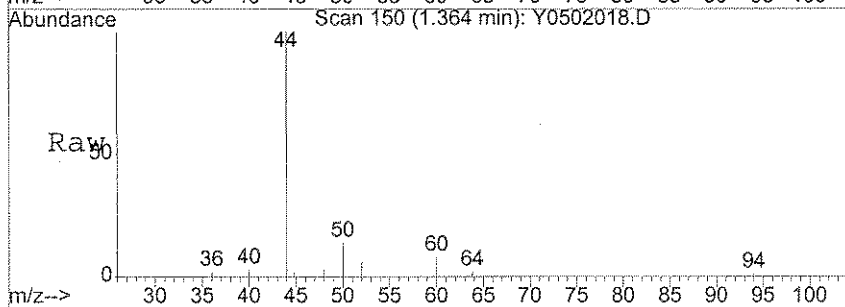
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	889		N.D.	
69) m,p-Xylene	11.91	106	309		N.D.	
70) o-xylene	12.25	106	272		N.D.	
71) Styrene	12.26	104	3033	0.39	ug/l	88
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.57	105	134		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	150		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	13.04	120	73		N.D.	
81) 2-Chlorotoluene	12.91	91	227		N.D.	
82) 4-Chlorotoluene	13.05	91	73		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.63	146	248		N.D.	
88) 4-Isopropyltoluene	13.59	119	236		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	248		N.D.	
90) 1,2-Dichlorobenzene	13.93	146	60		N.D.	
91) n-Butylbenzene	13.91	91	385		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	135		N.D.	
94) Hexachlorobutadiene	15.30	225	120		N.D.	
95) Naphthalene	15.36	128	613		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	121		N.D.	

stalosup



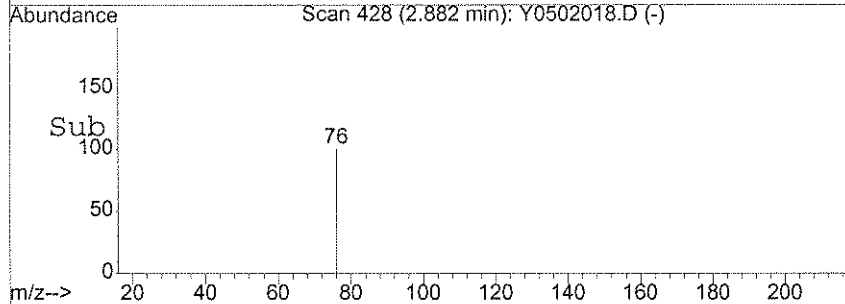
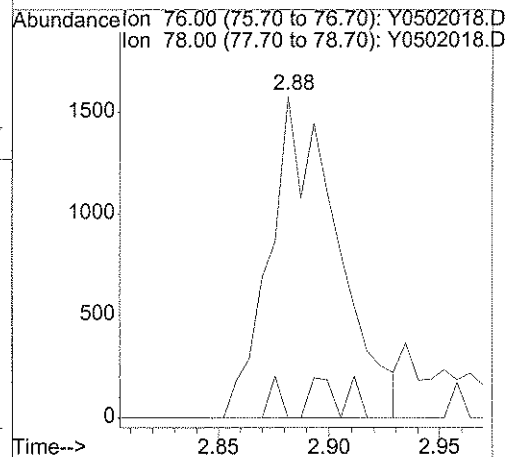
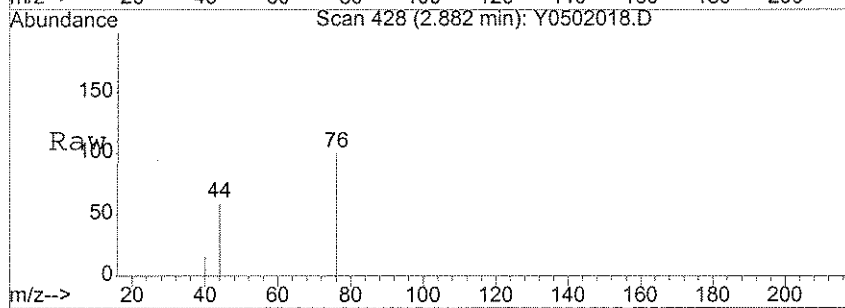
#3
 Chloromethane
 Concen: 0.47 ug/l
 RT: 1.36 min Scan# 150
 Delta R.T. -0.01 min
 Lab File: Y0502018.D
 Acq: 2 May 2008 13:31

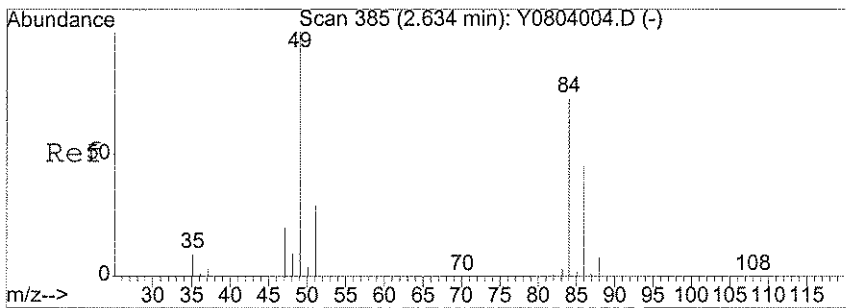
Tgt Ion: 50 Resp: 2698
 Ion Ratio Lower Upper
 50 100
 52 32.8 13.0 53.0



#14
 Carbon Disulfide
 Concen: 0.26 ug/l
 RT: 2.88 min Scan# 428
 Delta R.T. -0.01 min
 Lab File: Y0502018.D
 Acq: 2 May 2008 13:31

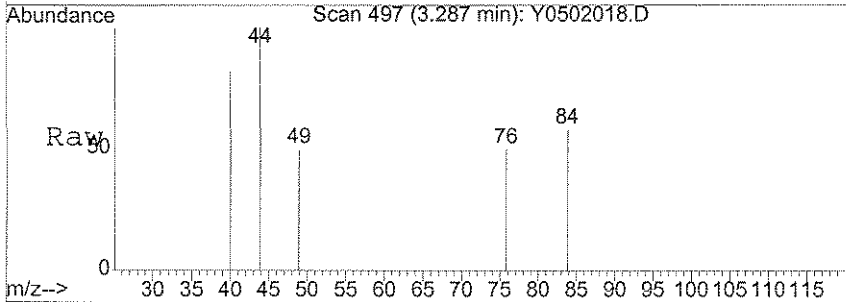
Tgt Ion: 76 Resp: 3310
 Ion Ratio Lower Upper
 76 100
 78 2.2 0.0 20.0



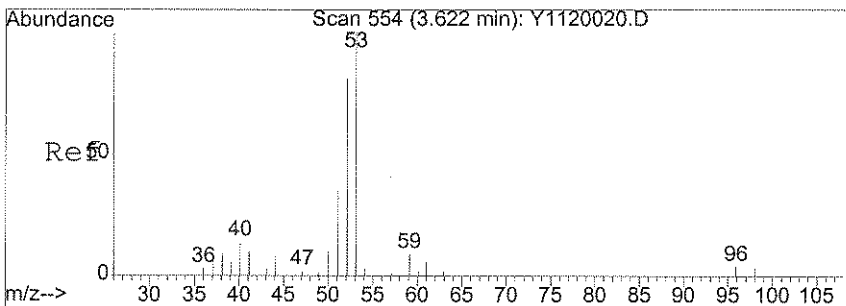
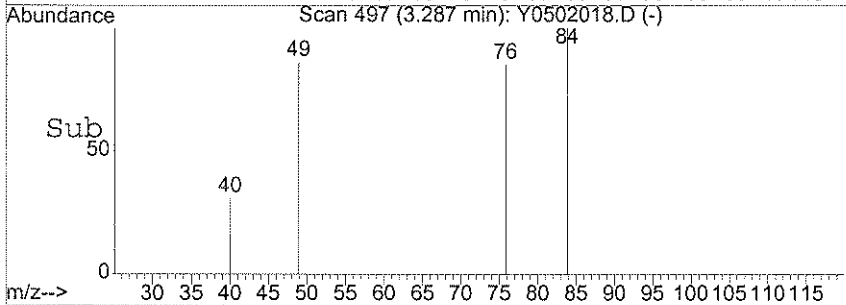
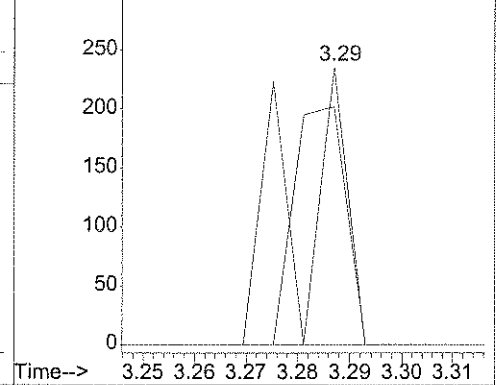


#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.29 min Scan# 497
 Delta R.T. 0.02 min
 Lab File: Y0502018.D
 Acq: 2 May 2008 13:31

Tgt Ion	Ratio	Lower	Upper	Resp
84	100			162
49	86.4	112.5	152.5#	
86	0.0	39.5	79.5#	

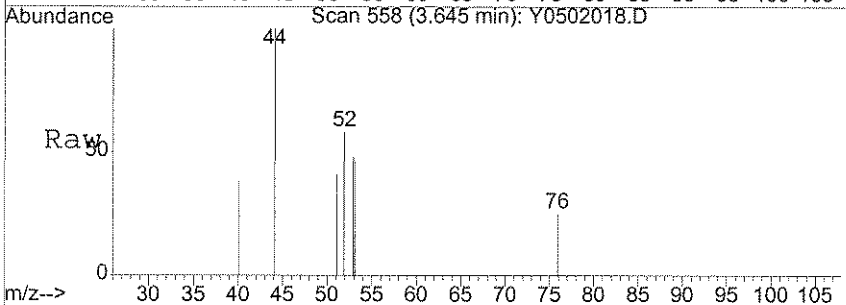


Abundance
 Ion 84.00 (83.70 to 84.70): Y0502018.D
 Ion 49.00 (48.70 to 49.70): Y0502018.D
 Ion 86.00 (85.70 to 86.70): Y0502018.D

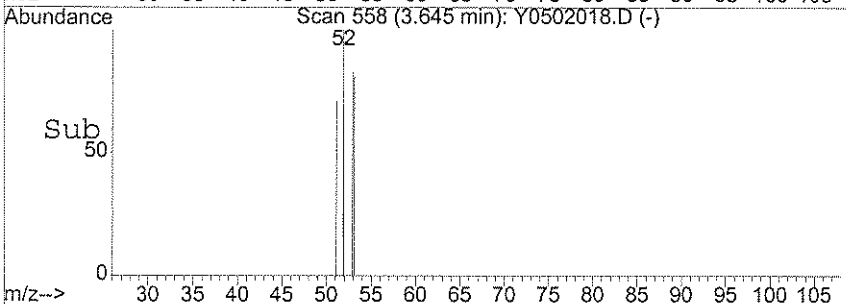
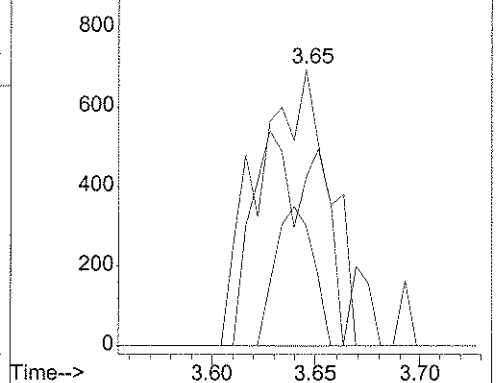


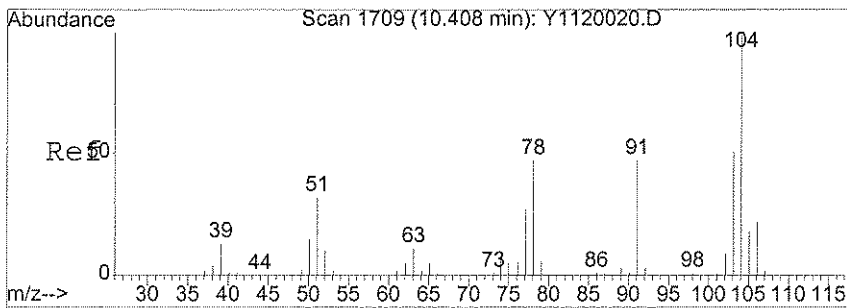
#20
 Acrylonitrile
 Concen: 1.41 ug/l
 RT: 3.65 min Scan# 558
 Delta R.T. 0.02 min
 Lab File: Y0502018.D
 Acq: 2 May 2008 13:31

Tgt Ion	Ratio	Lower	Upper	Resp
53	100			1643
52	43.9	0.0	0.0#	
51	27.7	72.2	108.4#	



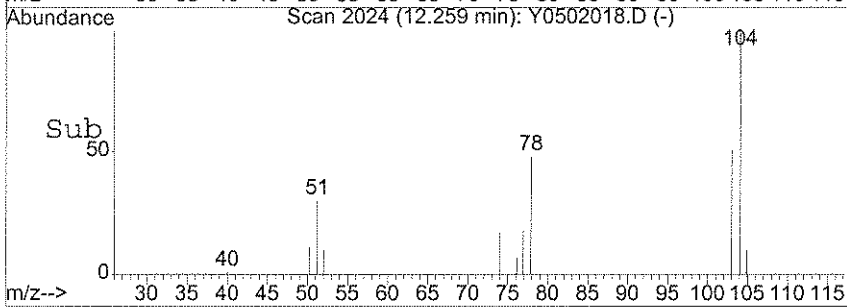
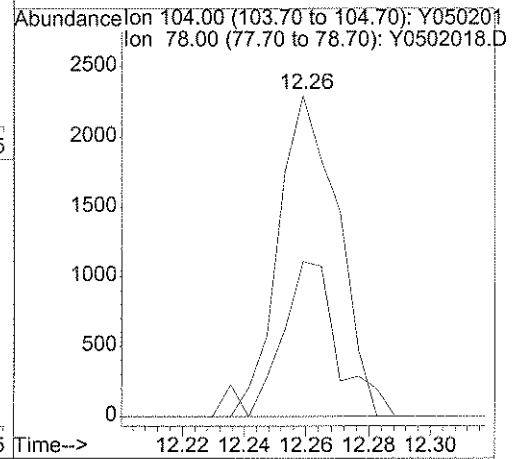
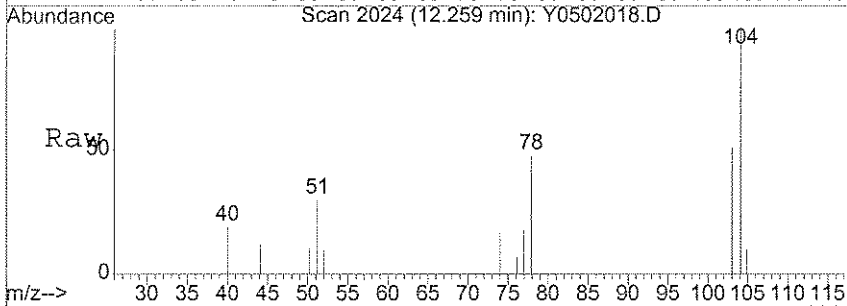
Abundance
 Ion 53.05 (52.75 to 53.75): Y0502018.D
 Ion 52.05 (51.75 to 52.75): Y0502018.D
 Ion 51.05 (50.75 to 51.75): Y0502018.D





#71
 Styrene
 Concen: 0.39 ug/l
 RT: 12.26 min Scan# 2024
 Delta R.T. 0.00 min
 Lab File: Y0502018.D
 Acq: 2 May 2008 13:31

Tgt Ion:	104	Resp:	3033
Ion Ratio	Lower	Upper	
104	100		
78	47.0	19.7	59.7



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-4

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-002
 Lab File ID: Y0502019.D
 Date Collected: 04/30/2008
 Date/Time Analyzed: 05/02/2008 13:55
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.65	
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-4

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-002
 Lab File ID: Y0502019.D
 Date Collected: 04/30/2008
 Date/Time Analyzed: 05/02/2008 13:55
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-4

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-002
 Lab File ID: Y0502019.D
 Date Collected: 04/30/2008
 Date/Time Analyzed: 05/02/2008 13:55
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

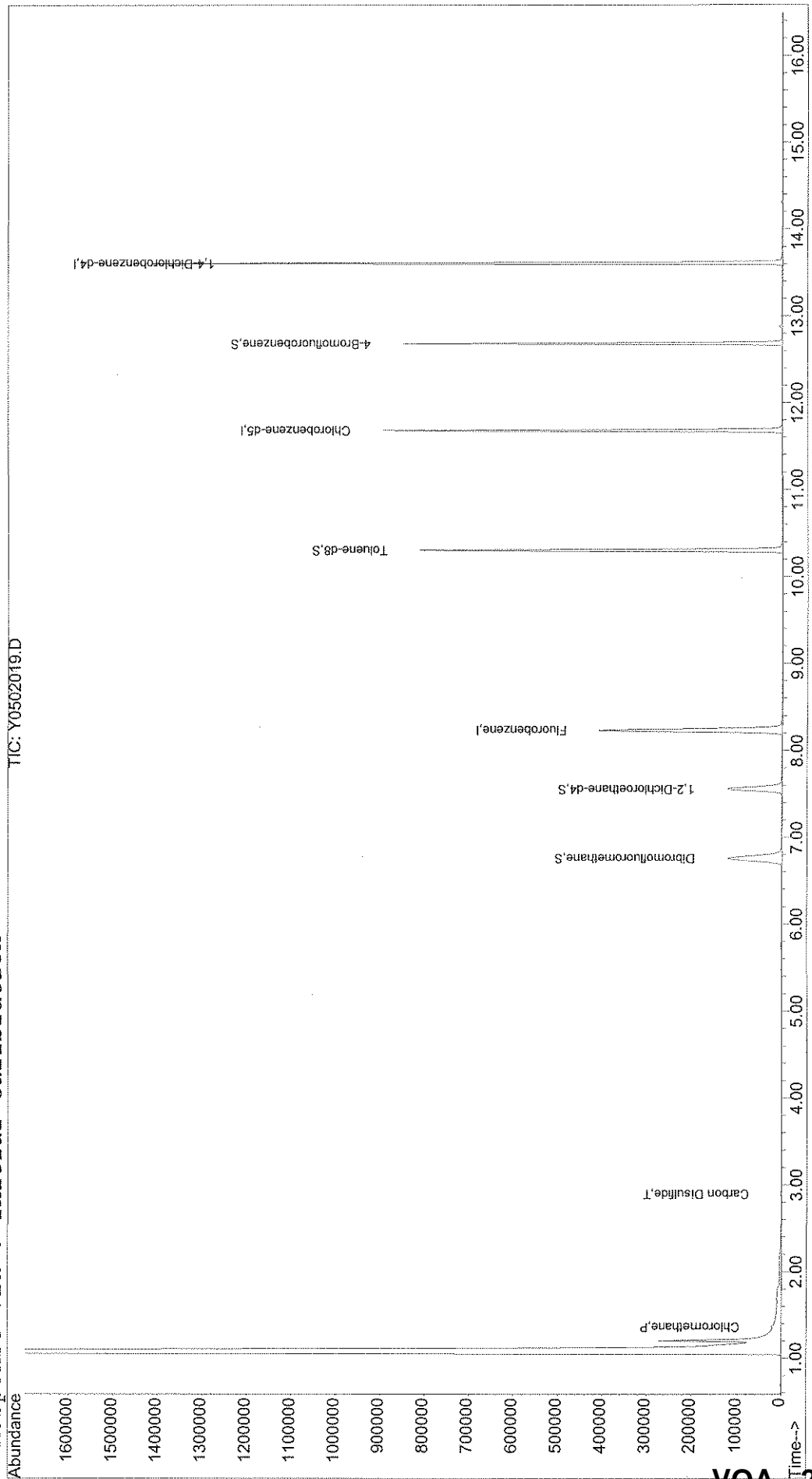
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502019.D Vial: 15
Acq On : 2 May 2008 13:55 Operator: LPM
Sample : JPL103-002 Inst : yoda
Misc : #3 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 5 12:29 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502019.D
 Acq On : 2 May 2008 13:55
 Sample : JPL103-002
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:29 2008

Vial: 15
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	486413	50.00	ug/l	0.00 95.26%
54) Chlorobenzene-d5	11.68	82	215454	50.00	ug/l	0.00 88.08%
74) 1,4-Dichlorobenzene-d4	13.61	152	307136	50.00	ug/l	0.00 87.64%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	159037	49.98	ug/l	0.00
Spiked Amount	50.000	Range 85 - 115	Recovery	=	99.96%	
40) 1,2-Dichloroethane-d4	7.56	65	151388	49.81	ug/l	0.00
Spiked Amount	50.000	Range 70 - 120	Recovery	=	99.62%	
55) Toluene-d8	10.30	98	478725	51.31	ug/l	0.00
Spiked Amount	50.000	Range 85 - 120	Recovery	=	102.62%	
76) 4-Bromofluorobenzene	12.68	95	200217	50.14	ug/l	0.00
Spiked Amount	50.000	Range 75 - 120	Recovery	=	100.28%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	3815	0.65	ug/l	96
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	1.88	64	75	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	0.00	43	0	N.D.	d	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	3682	0.28	ug/l	100
15) Allyl chloride	3.15	76	145	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.27	84	58	Below Cal	#	47
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	3.63	53	66	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	3.62	73	55	N.D.		

stokas up

(#) = qualifier out of range (m) = manual integration
 Y0502019.D Y8260W.M Mon May 05 12:29:55 2008

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502019.D
 Acq On : 2 May 2008 13:55
 Sample : JPL103-002
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:29 2008

Vial: 15
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	0.00	43	0		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.65	78	53		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.37	92	55		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.91	97	66		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.15	43	61		N.D.	
63) Dibromochloromethane	11.40	129	53		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.71	112	133		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

stcler

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

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502019.D
 Acq On : 2 May 2008 13:55
 Sample : JPL103-002
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:29 2008

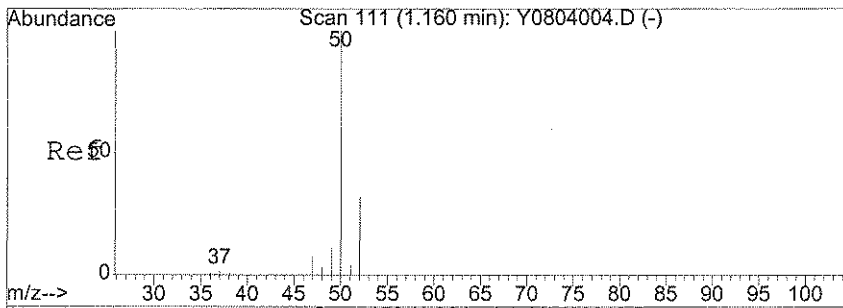
Vial: 15
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

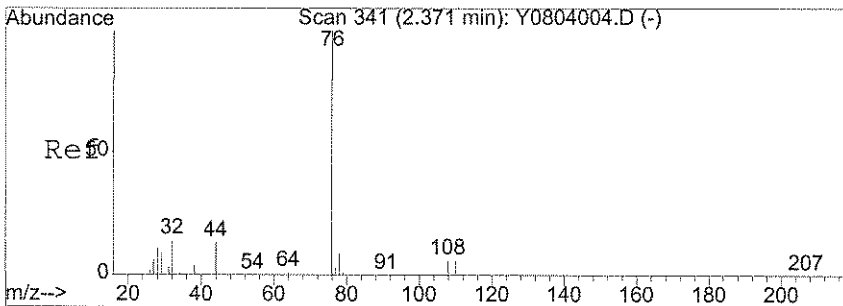
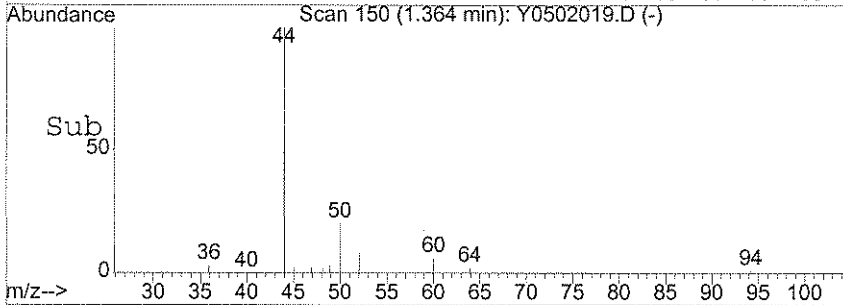
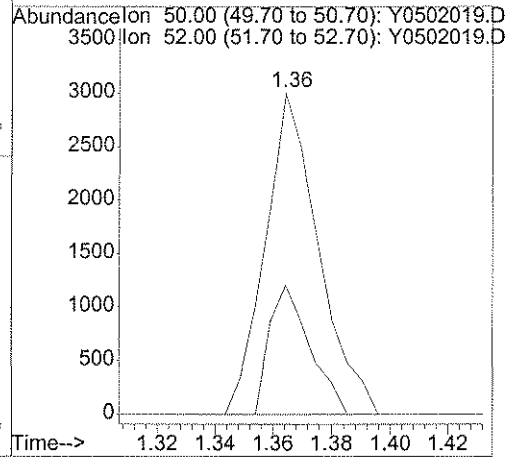
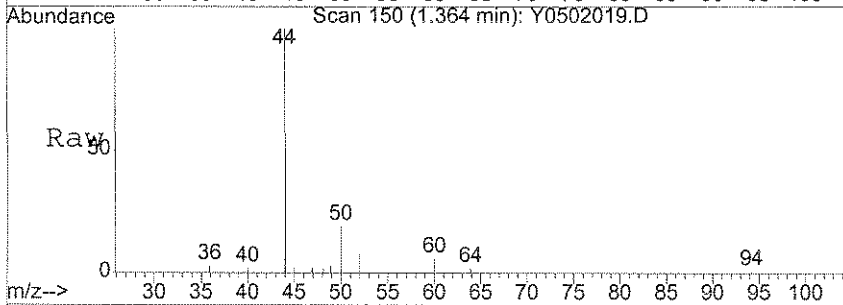
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.91	91	355		N.D.	
69) m,p-Xylene	11.91	106	66		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	12.26	104	210		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.56	105	56		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	80		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	12.89	120	63		N.D.	
81) 2-Chlorotoluene	12.89	91	78		N.D.	
82) 4-Chlorotoluene	12.89	91	78		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	128		N.D.	
88) 4-Isopropyltoluene	13.59	119	381		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	73		N.D.	
90) 1,2-Dichlorobenzene	13.63	146	73		N.D.	
91) n-Butylbenzene	13.91	91	89		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.85	75	56		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	175		N.D.	
94) Hexachlorobutadiene	15.31	225	187		N.D.	
95) Naphthalene	15.36	128	204		N.D.	
96) 1,2,3-Trichlorobenzene	15.55	180	64		N.D.	

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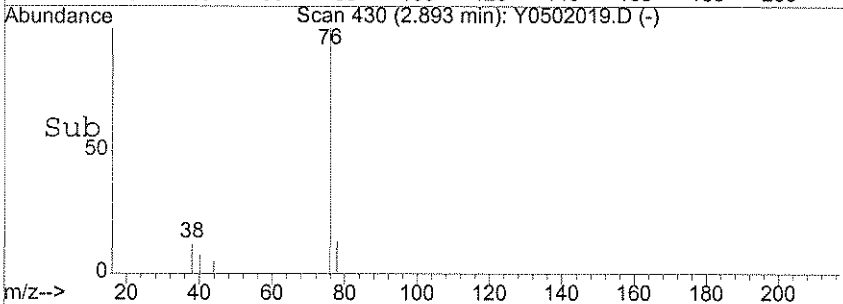
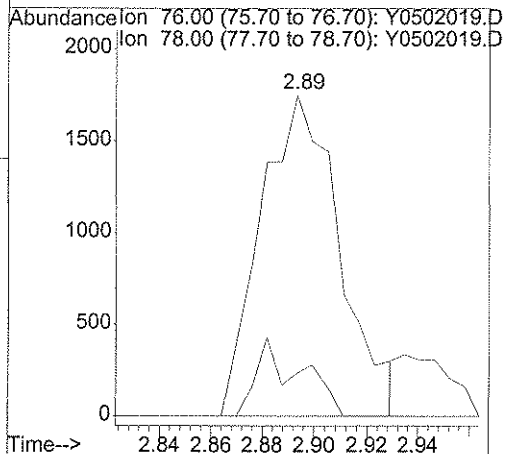
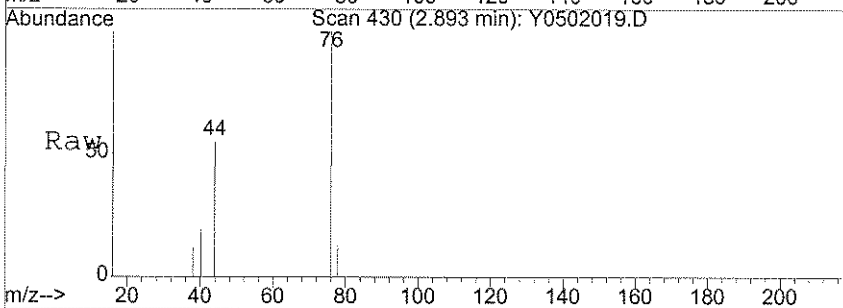
#3
 Chloromethane
 Concen: 0.65 ug/l
 RT: 1.36 min Scan# 150
 Delta R.T. -0.01 min
 Lab File: Y0502019.D
 Acq: 2 May 2008 13:55

Tgt Ion: 50 Resp: 3815
 Ion Ratio Lower Upper
 50 100
 52 30.6 13.0 53.0



#14
 Carbon Disulfide
 Concen: 0.28 ug/l
 RT: 2.89 min Scan# 430
 Delta R.T. 0.01 min
 Lab File: Y0502019.D
 Acq: 2 May 2008 13:55

Tgt Ion: 76 Resp: 3682
 Ion Ratio Lower Upper
 76 100
 78 13.6 0.0 20.0



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-3

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-003
 Lab File ID: Y0502020.D
 Date Collected: 04/30/2008
 Date/Time Analyzed: 05/02/2008 14:20
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-3

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-003
 Lab File ID: Y0502020.D
 Date Collected: 04/30/2008
 Date/Time Analyzed: 05/02/2008 14:20
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.27	J
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-3

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-003
 Lab File ID: Y0502020.D
 Date Collected: 04/30/2008
 Date/Time Analyzed: 05/02/2008 14:20
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

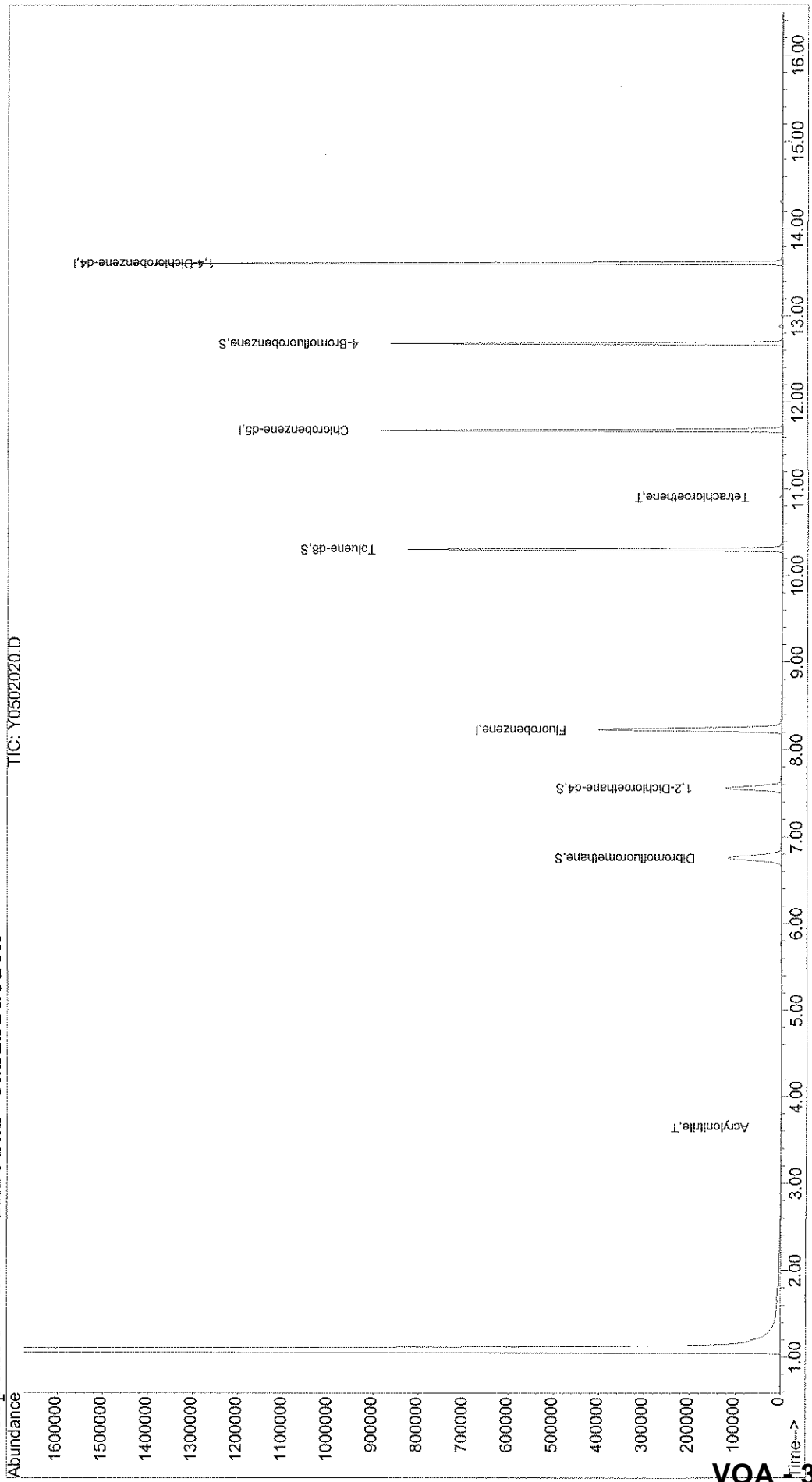
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502020.D Vial: 16
Acq On : 2 May 2008 14:20 Operator: LPM
Sample : JPL103-003 Inst : Yoda
Misc : #4 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 5 12:30 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502020.D
 Acq On : 2 May 2008 14:20
 Sample : JPL103-003
 Misc : #4 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:30 2008

Vial: 16
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	481959	50.00	ug/l	0.00 94.39%
54) Chlorobenzene-d5	11.68	82	216485	50.00	ug/l	0.00 88.51%
74) 1,4-Dichlorobenzene-d4	13.61	152	308021	50.00	ug/l	0.00 87.89%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	156529	49.65	ug/l	0.00
Spiked Amount	50.000	Range 85 - 115	Recovery	=	99.30%	
40) 1,2-Dichloroethane-d4	7.56	65	150000	49.81	ug/l	0.00
Spiked Amount	50.000	Range 70 - 120	Recovery	=	99.62%	
55) Toluene-d8	10.30	98	490535	52.33	ug/l	0.00
Spiked Amount	50.000	Range 85 - 120	Recovery	=	104.66%	
76) 4-Bromofluorobenzene	12.68	95	202594	50.59	ug/l	0.00
Spiked Amount	50.000	Range 75 - 120	Recovery	=	101.18%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	591	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	2.69	101	78	N.D.		
11) Acetone	0.00	43	0	N.D.	d	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	1239	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.28	84	62	Below Cal	#	1
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	3.65	53	960	0.81	ug/l #	12
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	3.69	73	391	N.D.		

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(#) = qualifier out of range (m) = manual integration
 Y0502020.D Y8260W.M Mon May 05 12:31:08 2008

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502020.D
 Acq On : 2 May 2008 14:20
 Sample : JPL103-003
 Misc : #4 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:30 2008

Vial: 16
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	0.00	43	0		N.D.	d
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.35	83	53		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.63	78	134		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	10.20	43	168		N.D.	
56) Toluene	10.37	92	54		N.D.	
57) trans-1,3-Dichloropropene	10.69	75	55		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.91	97	134		N.D.	
60) Tetrachloroethene	10.91	166	948	0.27	ug/l #	74
61) 1,3-Dichloropropene	0.00	76	0		N.D.	
62) 2-Hexanone	11.01	43	129		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	d
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.69	112	75		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

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(#) = qualifier out of range (m) = manual integration
 Y0502020.D Y8260W.M Mon May 05 12:31:09 2008

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502020.D
 Acq On : 2 May 2008 14:20
 Sample : JPL103-003
 Misc : #4 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:30 2008

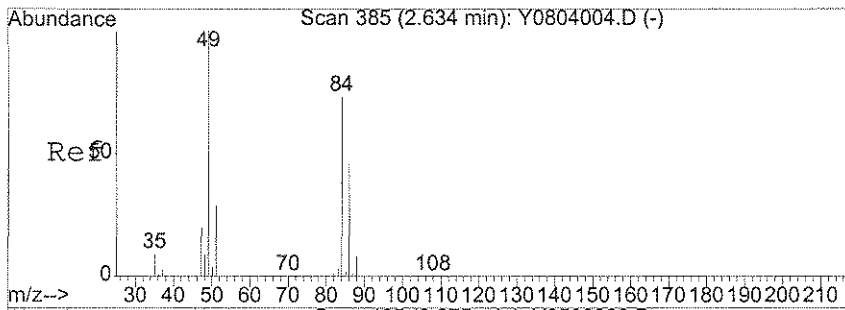
Vial: 16
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

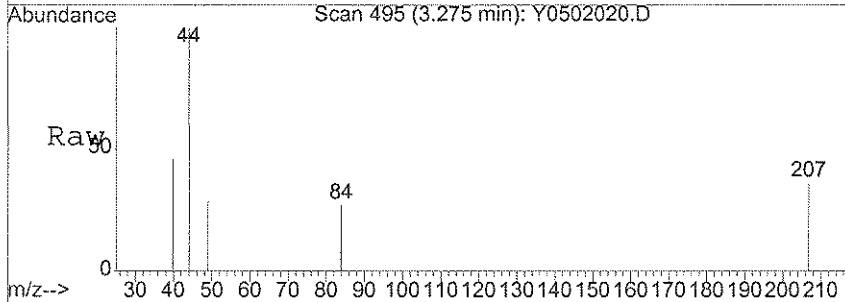
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.80	91	304		N.D.	
69) m,p-Xylene	0.00	106	0		N.D.	
70) o-xylene	12.10	106	55		N.D.	
71) Styrene	12.26	104	854		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.68	105	81		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	54		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	13.04	120	141		N.D.	
81) 2-Chlorotoluene	12.96	91	121		N.D.	
82) 4-Chlorotoluene	13.05	91	63		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	94		N.D.	
88) 4-Isopropyltoluene	13.59	119	138		N.D.	
89) 1,4-Dichlorobenzene	13.62	146	124		N.D.	
90) 1,2-Dichlorobenzene	13.62	146	124		N.D.	
91) n-Butylbenzene	13.92	91	284		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	d
93) 1,2,4-Trichlorobenzene	15.17	180	216		N.D.	
94) Hexachlorobutadiene	15.31	225	201		N.D.	
95) Naphthalene	15.36	128	92		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	153		N.D.	

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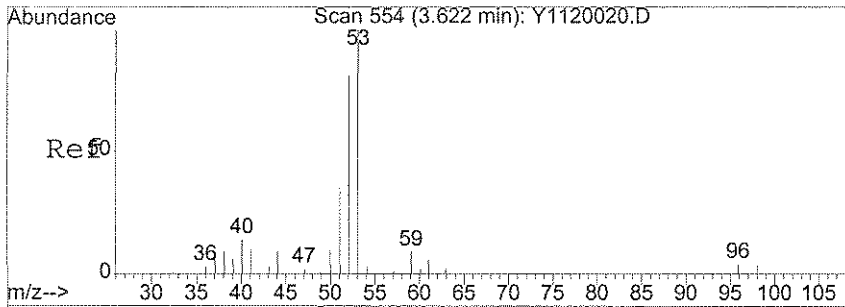
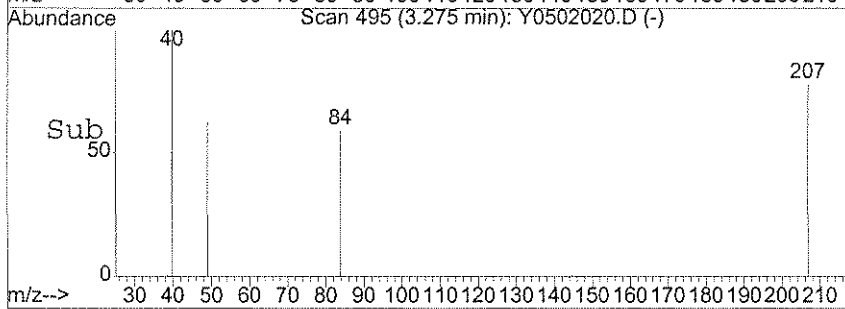
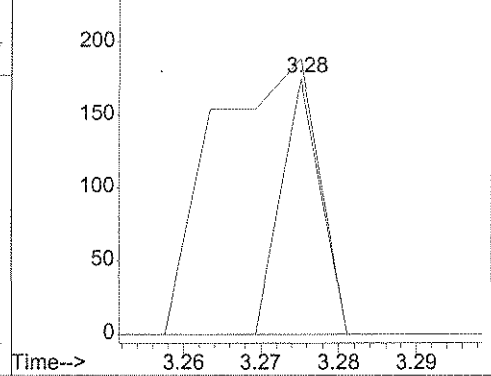


#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.28 min Scan# 495
 Delta R.T. 0.01 min
 Lab File: Y0502020.D
 Acq: 2 May 2008 14:20

Tgt Ion	Resp	Lower	Upper
84	100		
49	282.3	112.5	152.5#
86	0.0	39.5	79.5#

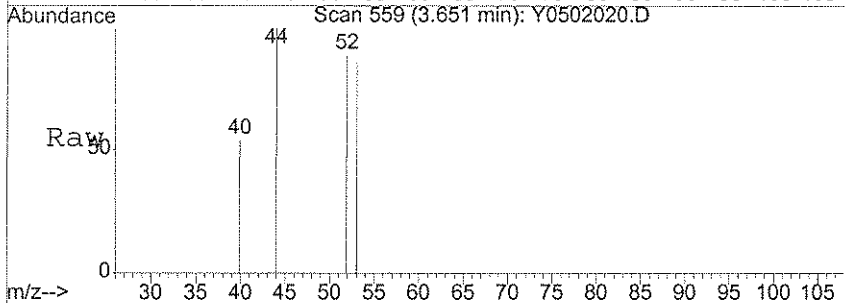


Abundance Ion 84.00 (83.70 to 84.70): Y0502020.D
 Ion 49.00 (48.70 to 49.70): Y0502020.D
 Ion 86.00 (85.70 to 86.70): Y0502020.D

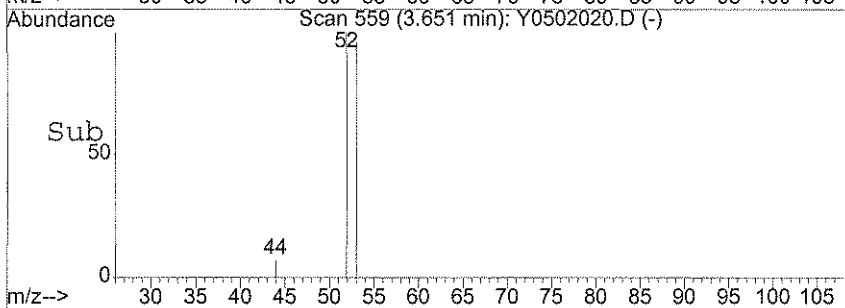
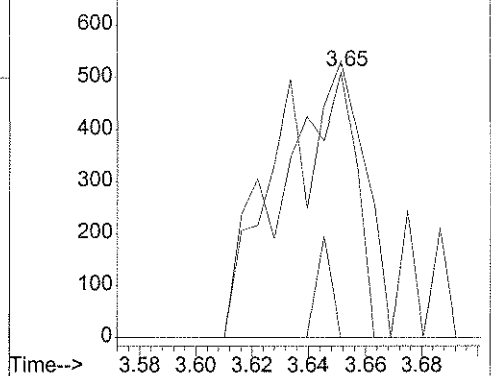


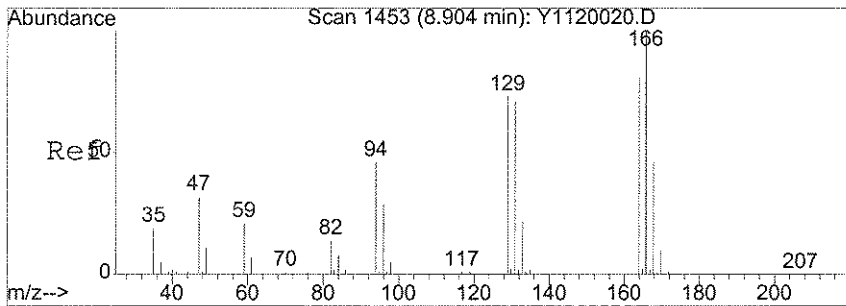
#20
 Acrylonitrile
 Concen: 0.81 ug/l
 RT: 3.65 min Scan# 559
 Delta R.T. 0.03 min
 Lab File: Y0502020.D
 Acq: 2 May 2008 14:20

Tgt Ion	Resp	Lower	Upper
53	100		
52	59.6	0.0	0.0#
51	7.2	72.2	108.4#



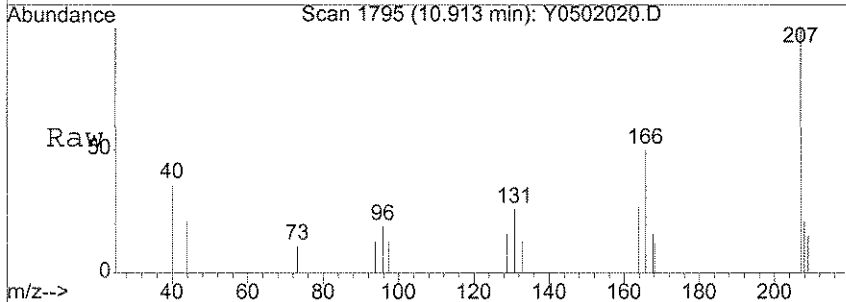
Abundance Ion 53.05 (52.75 to 53.75): Y0502020.D
 Ion 52.05 (51.75 to 52.75): Y0502020.D
 Ion 51.05 (50.75 to 51.75): Y0502020.D



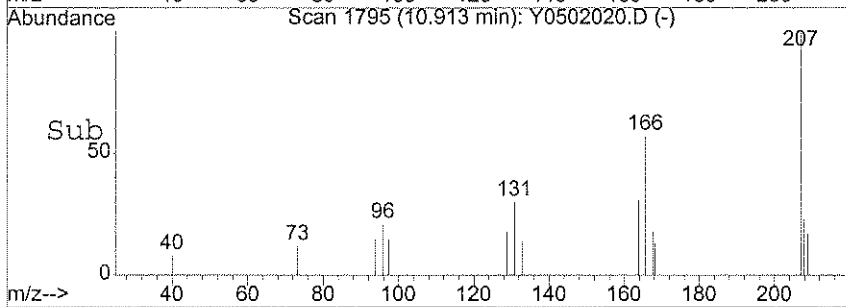
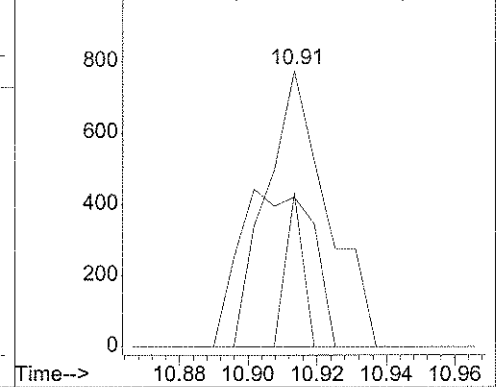


#60
 Tetrachloroethene
 Concen: 0.27 ug/l
 RT: 10.91 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: Y0502020.D
 Acq: 2 May 2008 14:20

Tgt Ion	Ratio	Lower	Upper	Resp
166	100			948
164	69.1	63.3	94.9	
168	16.1	39.6	59.4#	



Abundance Ion 165.95 (165.65 to 166.65): Y050202
 Ion 163.95 (163.65 to 164.65): Y050202
 Ion 167.95 (167.65 to 168.65): Y050202



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-2

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-004
 Lab File ID: Y0502021.D
 Date Collected: 04/30/2008
 Date/Time Analyzed: 05/02/2008 14:45
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.34	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.36	J
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-2

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-004
 Lab File ID: Y0502021.D
 Date Collected: 04/30/2008
 Date/Time Analyzed: 05/02/2008 14:45
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

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 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-004
 Lab File ID: Y0502021.D
 Date Collected: 04/30/2008
 Date/Time Analyzed: 05/02/2008 14:45
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

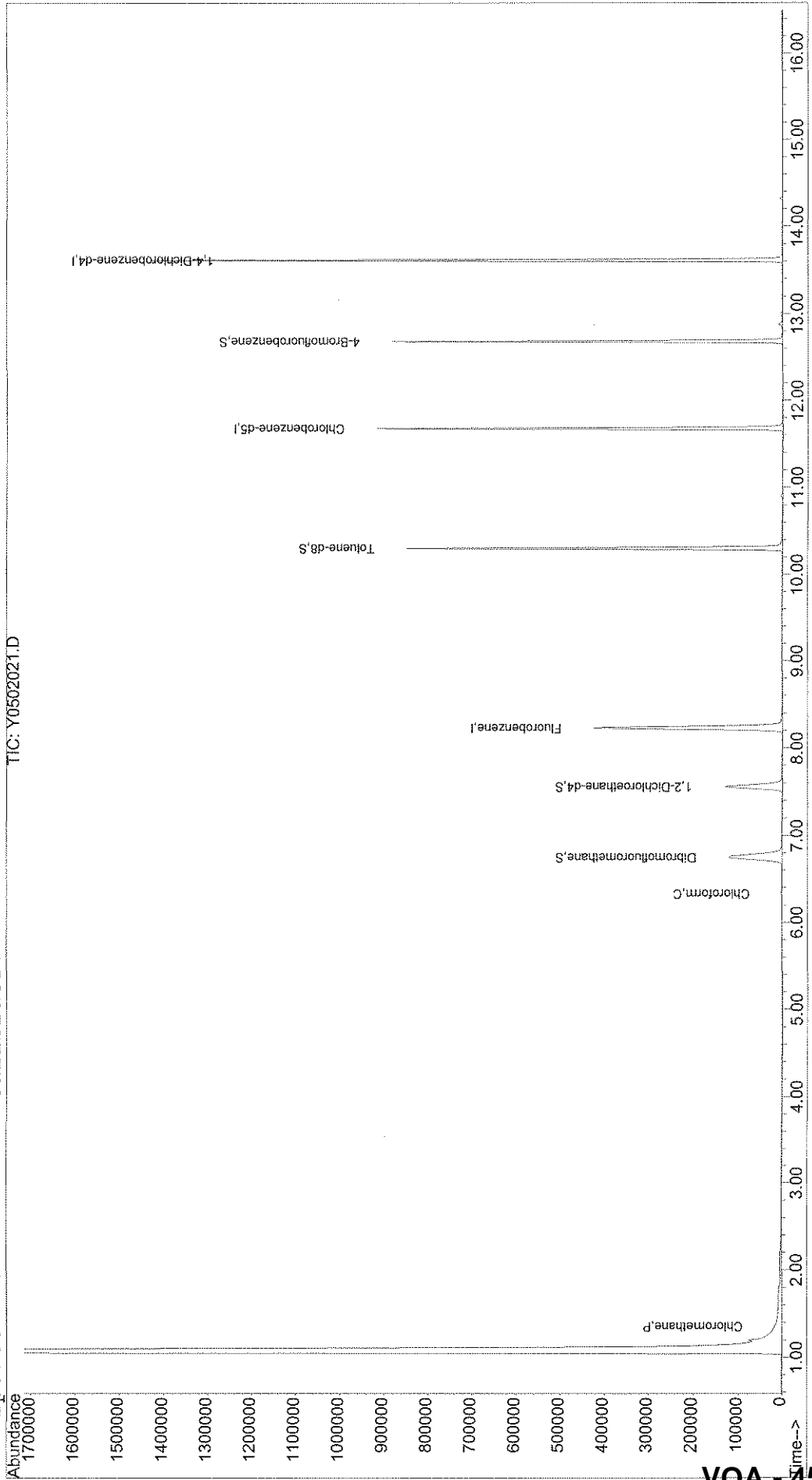
CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502021.D Vial: 17
Acq On : 2 May 2008 14:45 Operator: LPM
Sample : JPL103-004 Inst : Yoda
Misc : #3 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 5 12:32 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



VOA - 45

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502021.D
 Acq On : 2 May 2008 14:45
 Sample : JPL103-004
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:32 2008

Vial: 17
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	504283	50.00	ug/l	0.00	98.76%
54) Chlorobenzene-d5	11.68	82	227909	50.00	ug/l	0.00	93.18%
74) 1,4-Dichlorobenzene-d4	13.61	152	312666	50.00	ug/l	0.00	89.22%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	161894	49.08	ug/l	-0.01	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	98.16%	
40) 1,2-Dichloroethane-d4	7.56	65	154718	49.10	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.20%	
55) Toluene-d8	10.30	98	499869	50.65	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	101.30%	
76) 4-Bromofluorobenzene	12.68	95	205462	50.55	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	101.10%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	2078	0.34	ug/l	99
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	2.61	96	62	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	0.00	43	0	N.D.	d	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.88	76	899	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.28	84	116	Below Cal		90
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	3.69	73	62	N.D.		

slabon

(#) = qualifier out of range (m) = manual integration
 Y0502021.D Y8260W.M Mon May 05 12:32:15 2008

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502021.D
 Acq On : 2 May 2008 14:45
 Sample : JPL103-004
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:32 2008

Vial: 17
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	4.53	43	55		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	5.73	43	149		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.34	83	2751	0.36	ug/l #	64
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.65	78	62		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	9.55	41	72		N.D.	
50) Bromodichloromethane	9.50	83	137		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	10.18	43	138		N.D.	
56) Toluene	10.36	92	117		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	10.98	43	173		N.D.	
63) Dibromochloromethane	10.92	129	53		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	53		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

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(#) = qualifier out of range (m) = manual integration
 Y0502021.D Y8260W.M Mon May 05 12:32:16 2008

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502021.D
 Acq On : 2 May 2008 14:45
 Sample : JPL103-004
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:32 2008

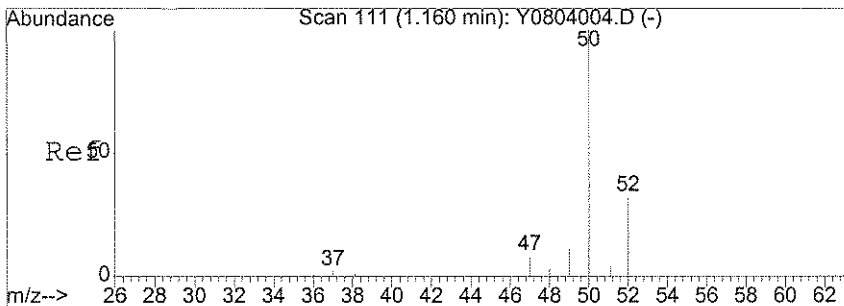
Vial: 17
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

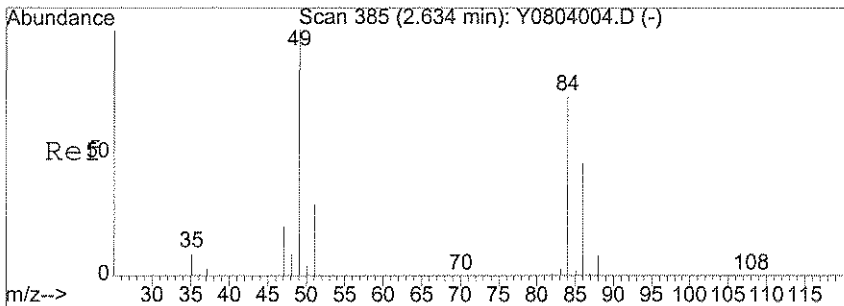
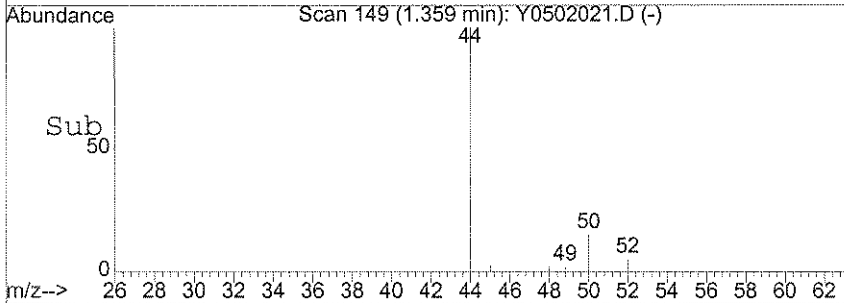
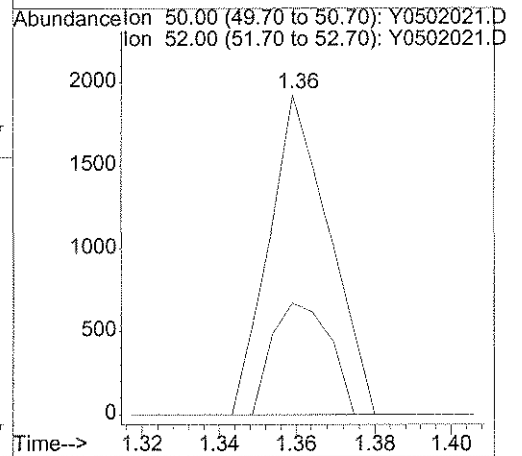
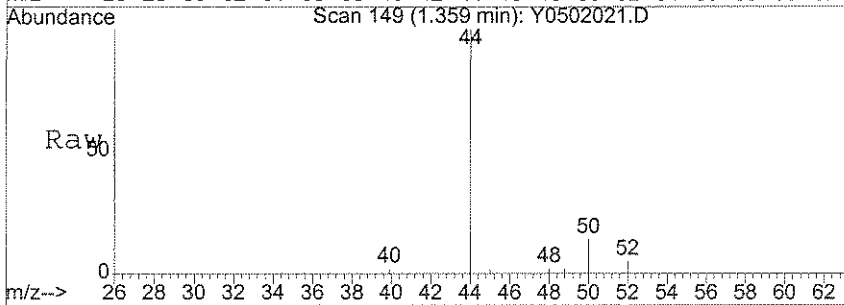
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.91	91	238		N.D.	
69) m,p-Xylene	11.91	106	104		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	12.26	104	78		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.66	105	70		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	110		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	12.89	120	78		N.D.	
81) 2-Chlorotoluene	12.90	91	89		N.D.	
82) 4-Chlorotoluene	12.90	91	89		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.63	146	67		N.D.	
88) 4-Isopropyltoluene	13.60	119	283		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	67		N.D.	
90) 1,2-Dichlorobenzene	13.63	146	67		N.D.	
91) n-Butylbenzene	13.90	91	243		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	89		N.D.	
94) Hexachlorobutadiene	0.00	225	0		N.D.	
95) Naphthalene	15.36	128	118		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	61		N.D.	

5/6/08 LPM



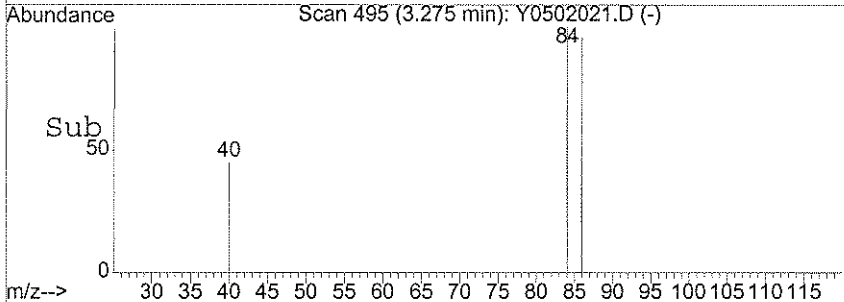
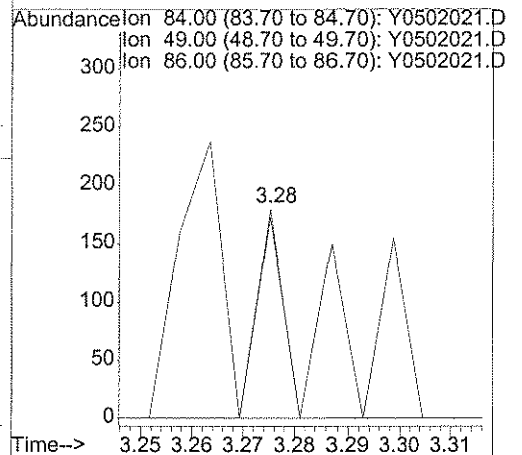
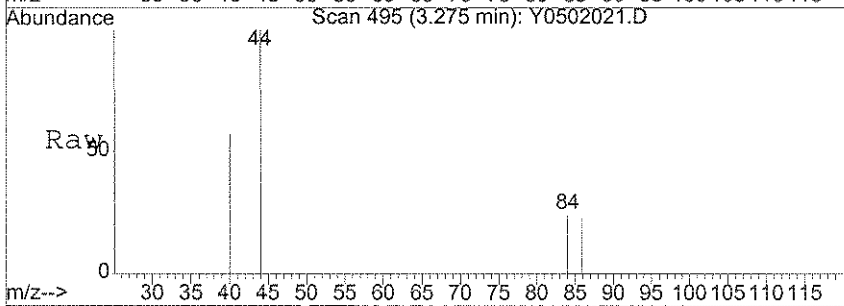
#3
 Chloromethane
 Concen: 0.34 ug/l
 RT: 1.36 min Scan# 149
 Delta R.T. -0.01 min
 Lab File: Y0502021.D
 Acq: 2 May 2008 14:45

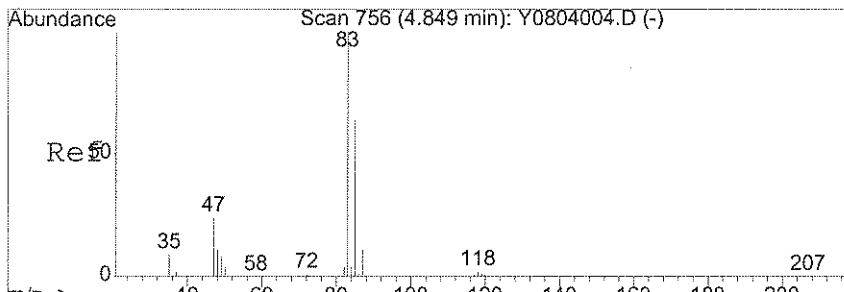
Tgt Ion: 50 Resp: 2078
 Ion Ratio Lower Upper
 50 100
 52 33.4 13.0 53.0



#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.28 min Scan# 495
 Delta R.T. 0.01 min
 Lab File: Y0502021.D
 Acq: 2 May 2008 14:45

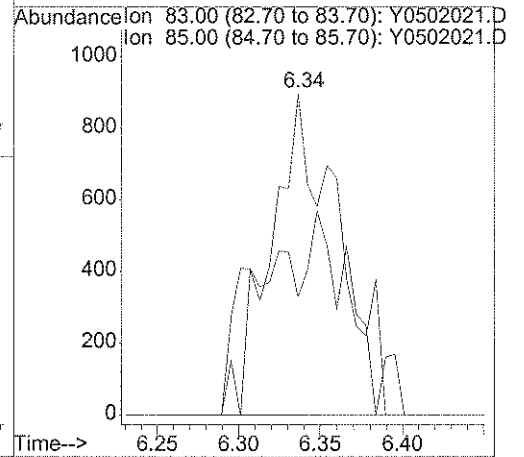
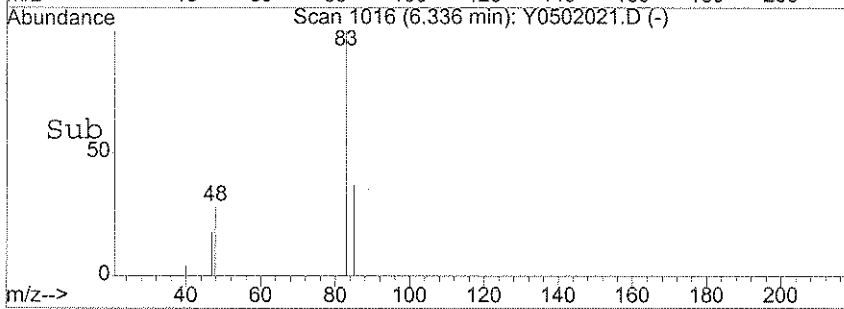
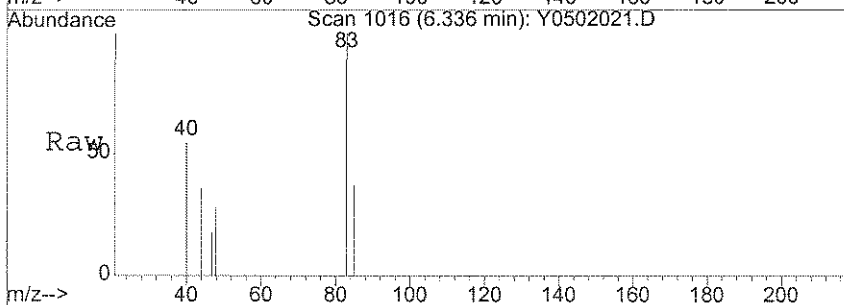
Tgt Ion: 84 Resp: 116
 Ion Ratio Lower Upper
 84 100
 49 120.7 112.5 152.5
 86 52.6 39.5 79.5





#34
 Chloroform
 Concen: 0.36 ug/l
 RT: 6.34 min Scan# 1016
 Delta R.T. 0.00 min
 Lab File: Y0502021.D
 Acq: 2 May 2008 14:45

Tgt Ion	Resp	Lower	Upper
83	2751		
83	100		
85	35.2	43.3	83.3#



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 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-005
 Lab File ID: Y0502022.D
 Date Collected: 04/30/2008
 Date/Time Analyzed: 05/02/2008 15:10
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.36	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

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 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-005
 Lab File ID: Y0502022.D
 Date Collected: 04/30/2008
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 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

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 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-005
 Lab File ID: Y0502022.D
 Date Collected: 04/30/2008
 Date/Time Analyzed: 05/02/2008 15:10
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

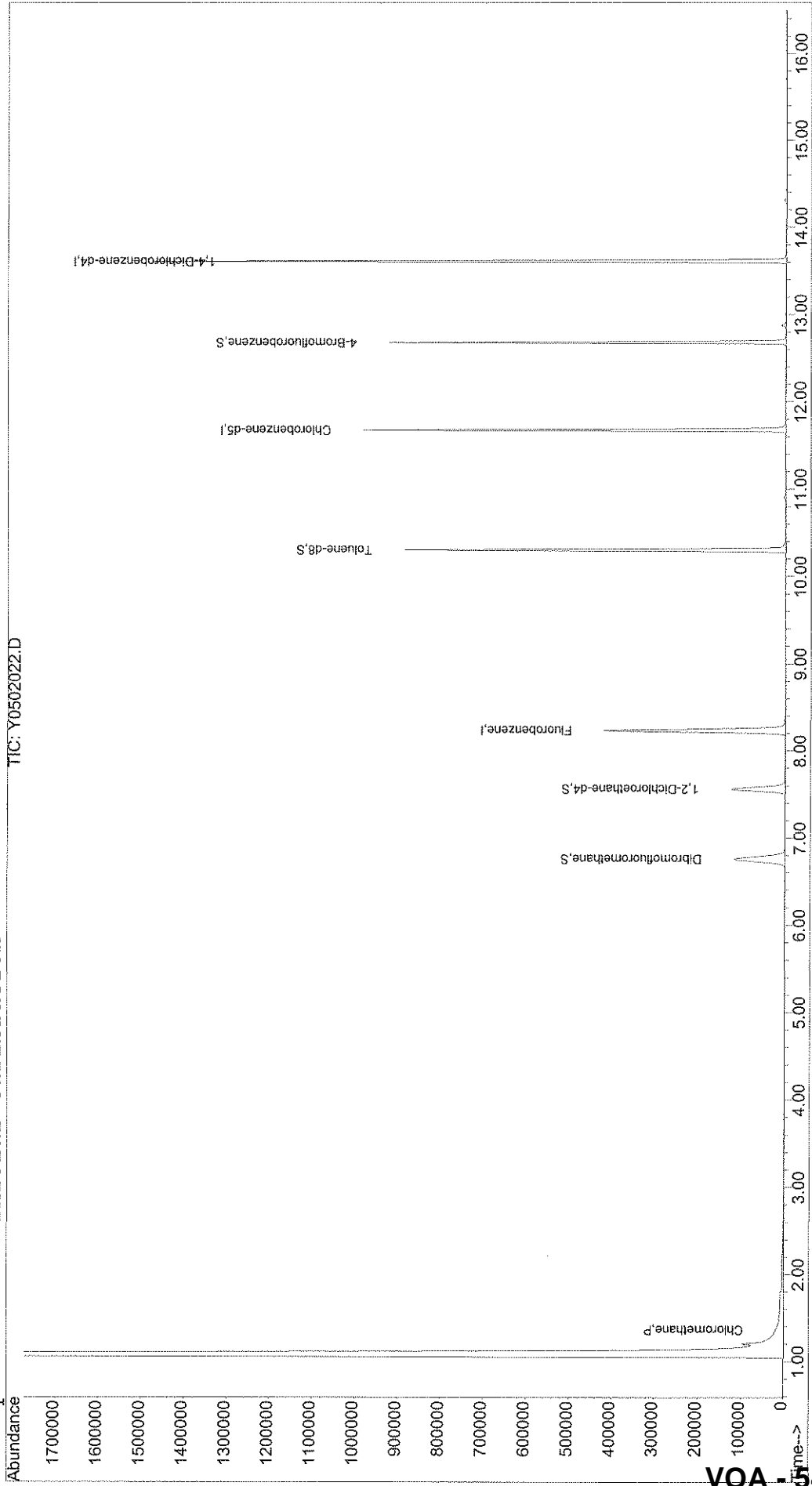
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502022.D Vial: 18
Acq On : 2 May 2008 15:10 Operator: LPM
Sample : JPL103-005 Inst : Yoda
Misc : #8 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 5 12:33 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



VOA - 54

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502022.D
 Acq On : 2 May 2008 15:10
 Sample : JPL103-005
 Misc : #8 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:33 2008

Vial: 18
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	496573	50.00	ug/l	0.00 97.25%
54) Chlorobenzene-d5	11.68	82	239244	50.00	ug/l	0.00 97.81%
74) 1,4-Dichlorobenzene-d4	13.61	152	319837	50.00	ug/l	0.00 91.26%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	156624	48.22	ug/l	0.00
Spiked Amount	50.000	Range	85 - 115	Recovery	=	96.44%
40) 1,2-Dichloroethane-d4	7.56	65	153718	49.54	ug/l	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.08%
55) Toluene-d8	10.30	98	523008	50.49	ug/l	0.00
Spiked Amount	50.000	Range	85 - 120	Recovery	=	100.98%
76) 4-Bromofluorobenzene	12.68	95	214415	51.57	ug/l	0.00
Spiked Amount	50.000	Range	75 - 120	Recovery	=	103.14%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	2162	0.36	ug/l	87
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	0.00	43	0	N.D.	d	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.90	76	483	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	3.15	43	165	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	3.71	73	76	N.D.		

(#) = qualifier out of range (m) = manual integration
 Y0502022.D Y8260W.M Mon May 05 12:33:50 2008

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502022.D
 Acq On : 2 May 2008 15:10
 Sample : JPL103-005
 Misc : #8 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:33 2008

Vial: 18
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	5.60	43	59		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.36	83	127		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.66	78	206		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	10.21	43	131		N.D.	
56) Toluene	10.37	92	226		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.68	97	63		N.D.	
60) Tetrachloroethene	10.93	166	55		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.14	43	158		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	65		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

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Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502022.D
 Acq On : 2 May 2008 15:10
 Sample : JPL103-005
 Misc : #8 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:33 2008

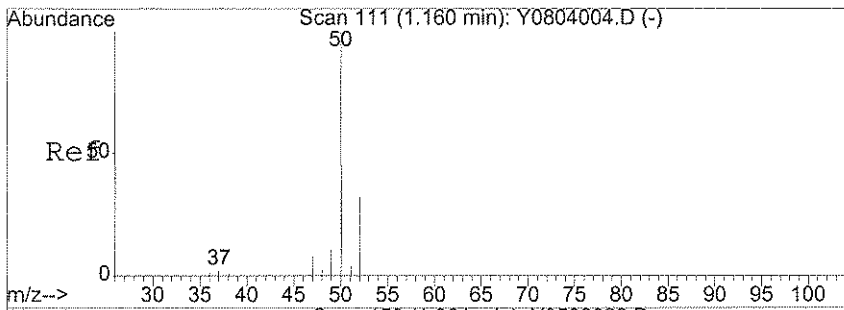
Vial: 18
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

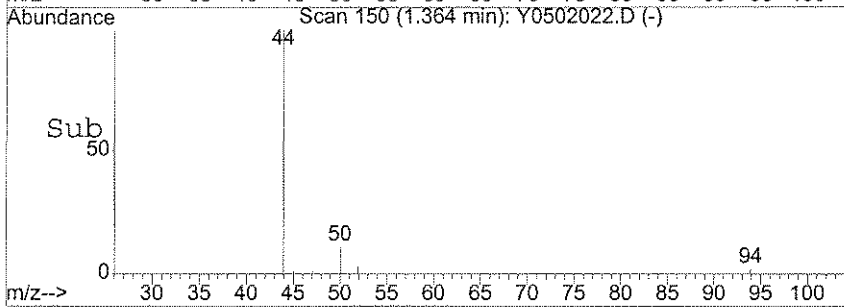
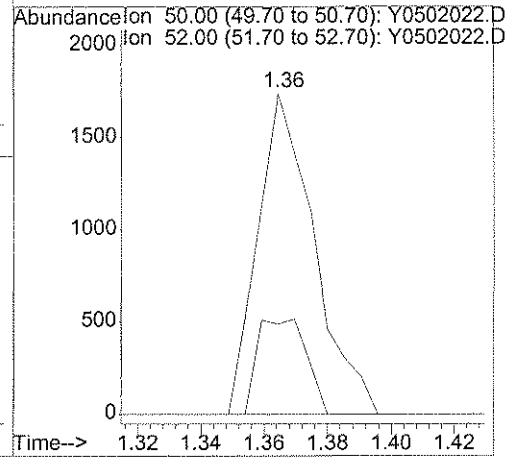
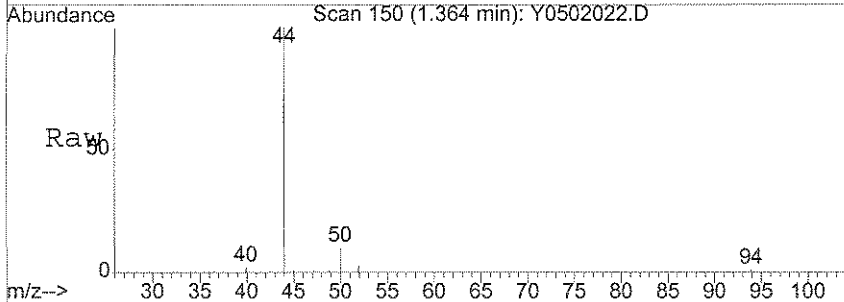
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	59		N.D.	
69) m,p-Xylene	0.00	106	0		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	12.26	104	57		N.D.	
72) Bromoform	12.70	173	92		N.D.	
73) Isopropylbenzene	12.68	105	555		N.D.	
75) trans-1,4-Dichloro-2-buten	12.39	53	59		N.D.	
77) Bromobenzene	12.68	156	160		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	12.90	120	69		N.D.	
81) 2-Chlorotoluene	12.90	91	64		N.D.	
82) 4-Chlorotoluene	13.05	91	57		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	114		N.D.	
88) 4-Isopropyltoluene	13.59	119	371		N.D.	
89) 1,4-Dichlorobenzene	13.64	146	61		N.D.	
90) 1,2-Dichlorobenzene	13.64	146	61		N.D.	
91) n-Butylbenzene	13.91	91	92		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.18	180	54		N.D.	
94) Hexachlorobutadiene	15.30	225	55		N.D.	
95) Naphthalene	15.13	128	65		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	75		N.D.	

5/6/08 LPM



#3
 Chloromethane
 Concen: 0.36 ug/l
 RT: 1.36 min Scan# 150
 Delta R.T. -0.01 min
 Lab File: Y0502022.D
 Acq: 2 May 2008 15:10

Tgt Ion	Resp	Lower	Upper
50	2162		
52	25.9	13.0	53.0



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-06-04/30/08

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-006
 Lab File ID: Y0502023.D
 Date Collected: 04/30/2008
 Date/Time Analyzed: 05/02/2008 15:34
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.45	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-06-04/30/08

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-006
 Lab File ID: Y0502023.D
 Date Collected: 04/30/2008
 Date/Time Analyzed: 05/02/2008 15:34
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-06-04/30/08

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-006
 Lab File ID: Y0502023.D
 Date Collected: 04/30/2008
 Date/Time Analyzed: 05/02/2008 15:34
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

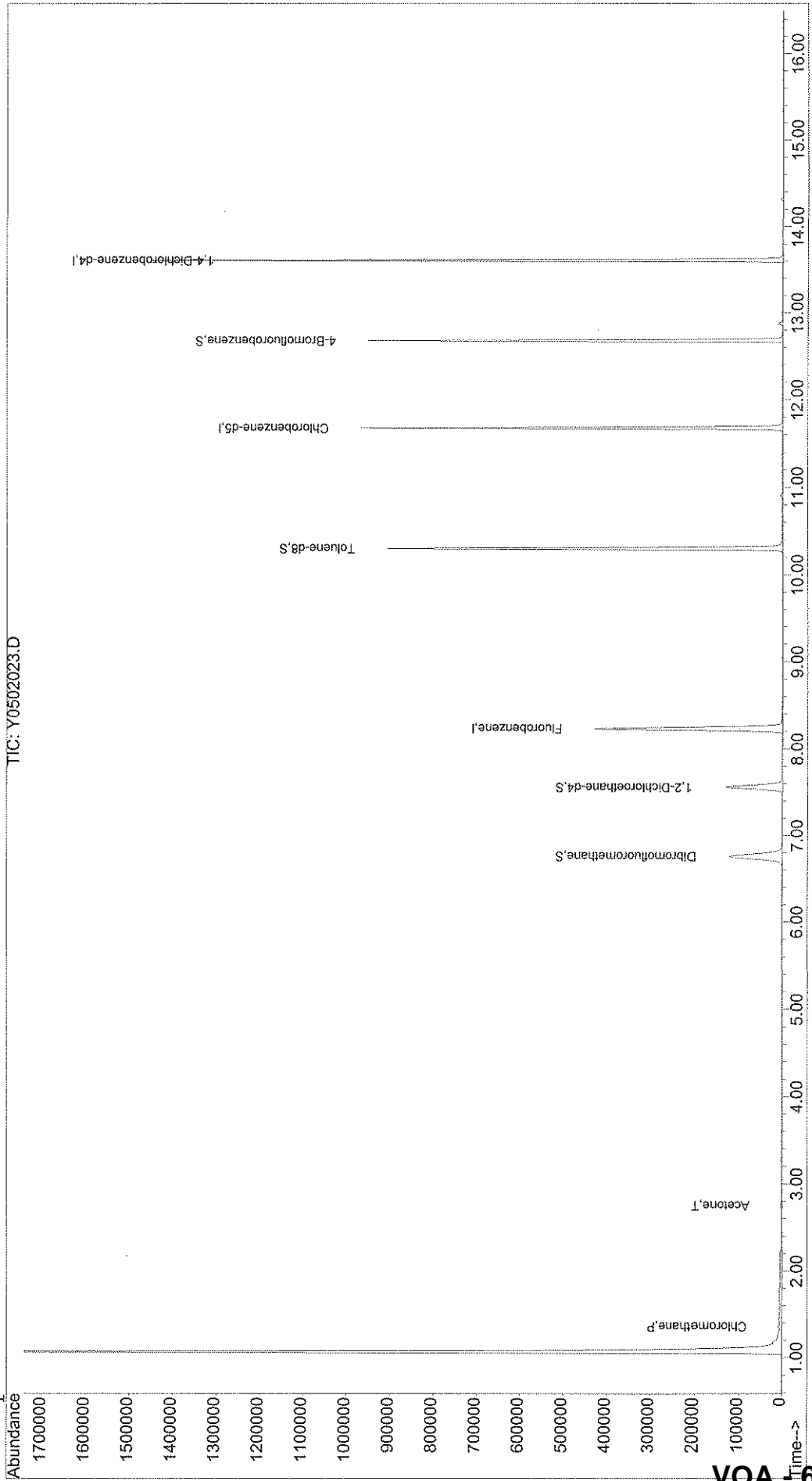
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502023.D
Acq On : 2 May 2008 15:34 Vial: 19
Sample : JPL103-006 Operator: LPM
Misc : #3 5mL+IS/SS(MV8-45-10) (524) Inst : Yoda
MS Integration Params: rteint.p Multiplr: 1.00
Quant Time: May 5 12:35 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502023.D
 Acq On : 2 May 2008 15:34
 Sample : JPL103-006
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:35 2008

Vial: 19
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	509434	50.00	ug/l	0.00	99.77%
54) Chlorobenzene-d5	11.68	82	238806	50.00	ug/l	0.00	97.63%
74) 1,4-Dichlorobenzene-d4	13.61	152	321150	50.00	ug/l	0.00	91.64%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	160564	48.18	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	96.36%	
40) 1,2-Dichloroethane-d4	7.56	65	157423	49.46	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.92%	
55) Toluene-d8	10.30	98	537664	52.00	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	104.00%	
76) 4-Bromofluorobenzene	12.68	95	218517	52.34	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	104.68%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	2793	0.45	ug/l	99
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.76	43	4317	3.56	ug/l	90
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	396	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.26	84	819	Below Cal	#	86
19) trans-1,2-Dichloroethene	3.67	96	72	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.	d	
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

5/6/08 LPM

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

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502023.D
 Acq On : 2 May 2008 15:34
 Sample : JPL103-006
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:35 2008

Vial: 19
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	5.65	43	54		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.63	78	139		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	9.19	41	79		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.36	92	118		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.75	97	78		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	10.77	76	62		N.D.	
62) 2-Hexanone	10.93	43	75		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.71	112	60		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

stalos

(#) = qualifier out of range (m) = manual integration
 Y0502023.D Y8260W.M Mon May 05 12:35:08 2008

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502023.D
 Acq On : 2 May 2008 15:34
 Sample : JPL103-006
 Misc : #3 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:35 2008

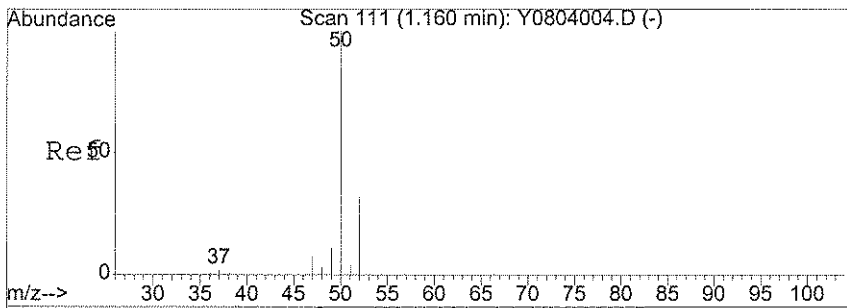
Vial: 19
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

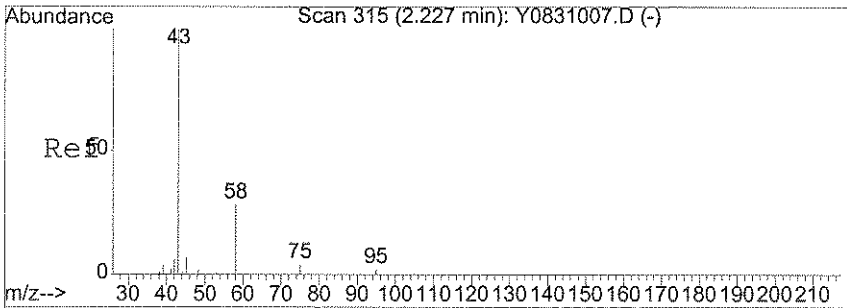
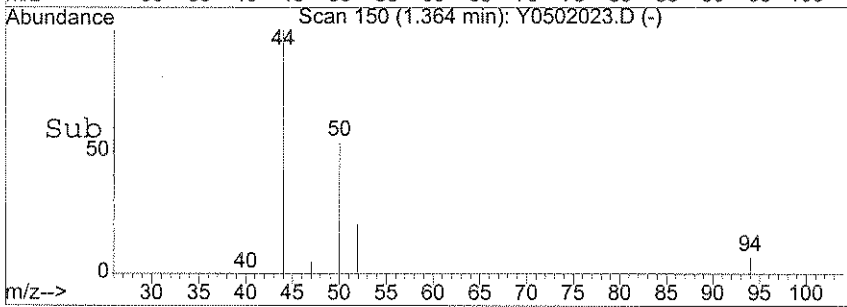
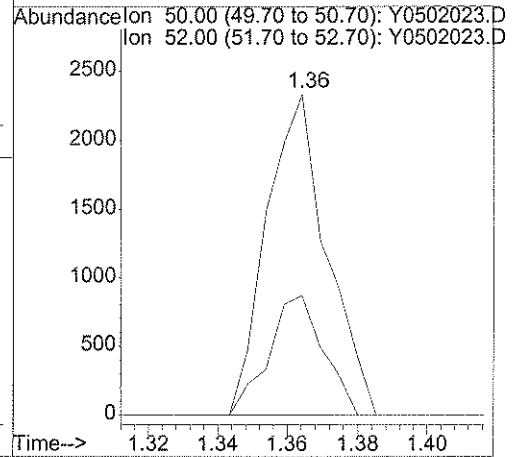
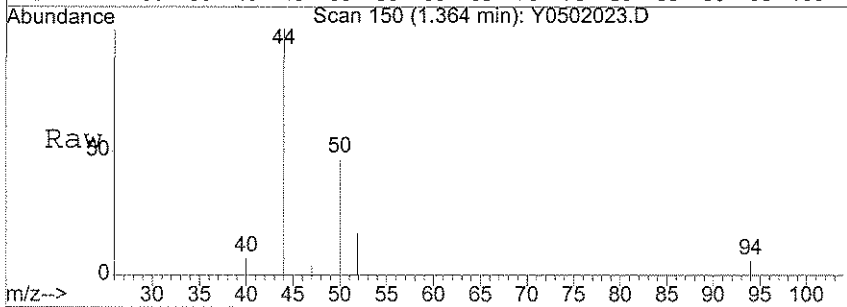
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	173		N.D.	
69) m,p-Xylene	11.91	106	82		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	12.66	173	86		N.D.	
73) Isopropylbenzene	12.67	105	124		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	236		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.69	83	62		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	12.89	120	62		N.D.	
81) 2-Chlorotoluene	12.96	91	61		N.D.	
82) 4-Chlorotoluene	13.06	91	55		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.62	146	136		N.D.	
88) 4-Isopropyltoluene	13.60	119	323		N.D.	
89) 1,4-Dichlorobenzene	13.62	146	136		N.D.	
90) 1,2-Dichlorobenzene	13.63	146	65		N.D.	
91) n-Butylbenzene	13.92	91	179		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.30	75	71		N.D.	
93) 1,2,4-Trichlorobenzene	15.16	180	274		N.D.	
94) Hexachlorobutadiene	15.31	225	55		N.D.	
95) Naphthalene	15.35	128	262		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	94		N.D.	

st/05/08/05



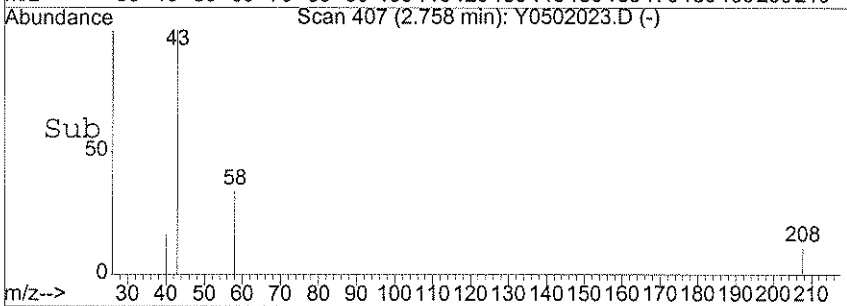
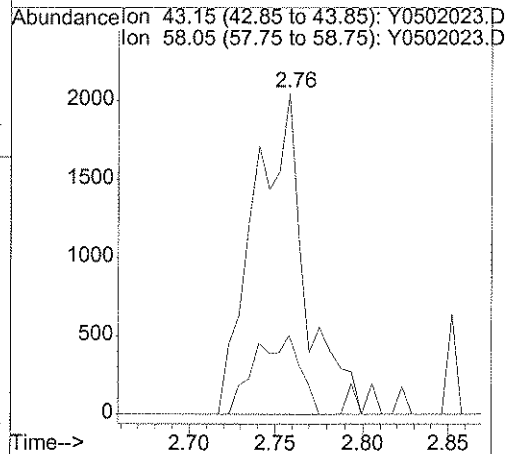
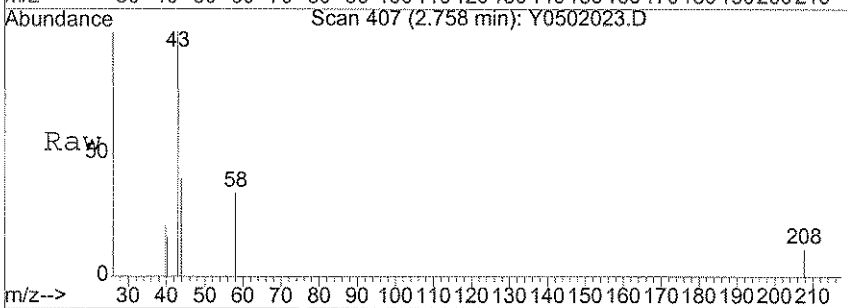
#3
 Chloromethane
 Concen: 0.45 ug/l
 RT: 1.36 min Scan# 150
 Delta R.T. -0.01 min
 Lab File: Y0502023.D
 Acq: 2 May 2008 15:34

Tgt Ion: 50 Resp: 2793
 Ion Ratio Lower Upper
 50 100
 52 33.8 13.0 53.0



#11
 Acetone
 Concen: 3.56 ug/l
 RT: 2.76 min Scan# 407
 Delta R.T. 0.02 min
 Lab File: Y0502023.D
 Acq: 2 May 2008 15:34

Tgt Ion: 43 Resp: 4317
 Ion Ratio Lower Upper
 43 100
 58 21.6 21.3 31.9



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-06-04/30/08

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-007
 Lab File ID: Y0502017.D
 Date Collected: 04/30/2008
 Date/Time Analyzed: 05/02/2008 13:06
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-06-04/30/08

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-007
 Lab File ID: Y0502017.D
 Date Collected: 04/30/2008
 Date/Time Analyzed: 05/02/2008 13:06
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-06-04/30/08

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-007
 Lab File ID: Y0502017.D
 Date Collected: 04/30/2008
 Date/Time Analyzed: 05/02/2008 13:06
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

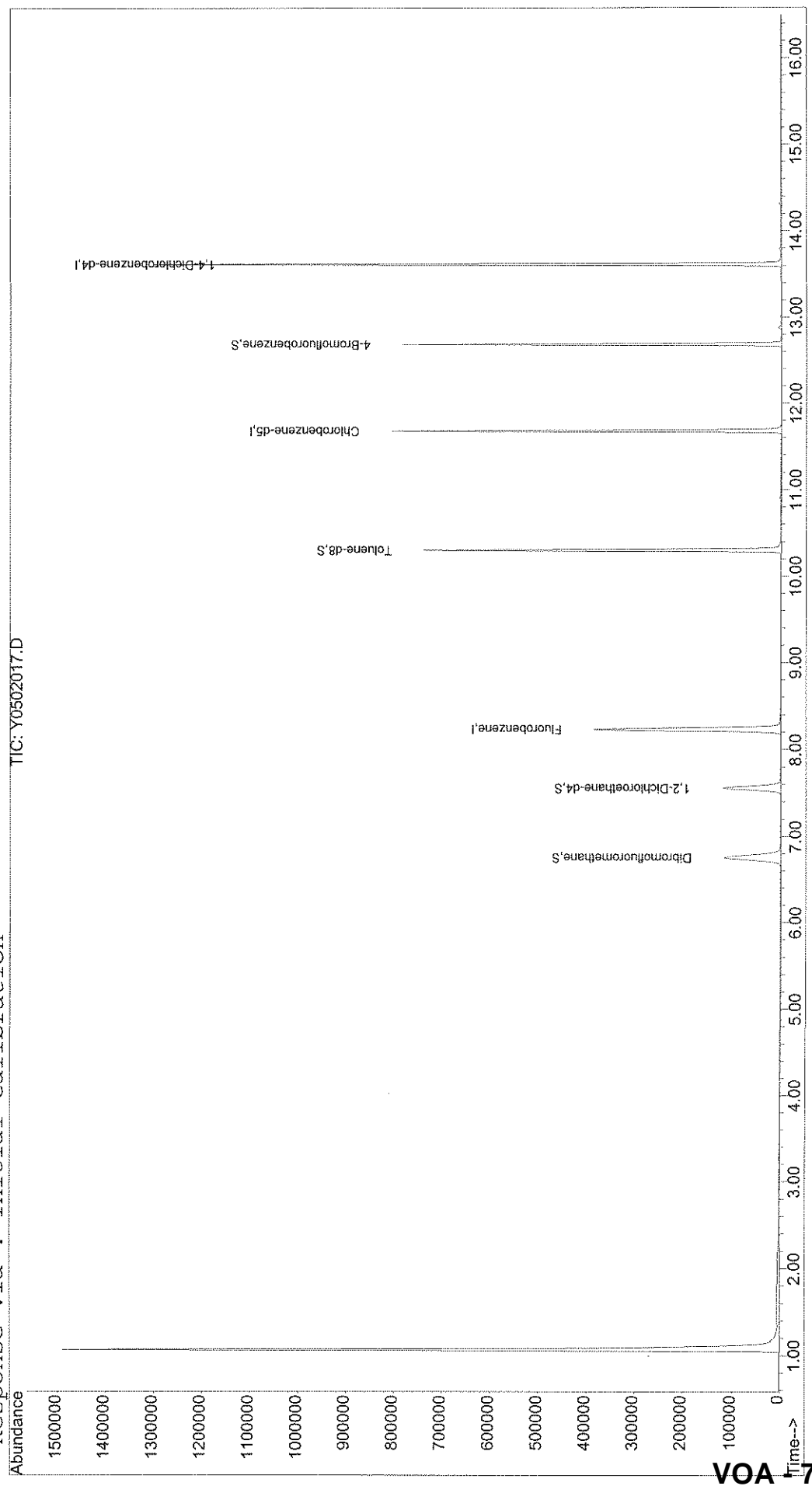
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502017.D Vial: 13
Acq On : 2 May 2008 13:06 Operator: LPM
Sample : JPL103-007 Inst : Yoda
Misc : #1 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 5 12:26 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



VOA 70

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502017.D
 Acq On : 2 May 2008 13:06
 Sample : JPL103-007
 Misc : #1 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:26 2008

Vial: 13
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\041408\Y0414042.D (15 Apr 2008 00:12)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	458930	50.00	ug/l	0.00 89.88%
54) Chlorobenzene-d5	11.68	82	197983	50.00	ug/l	0.00 80.94%
74) 1,4-Dichlorobenzene-d4	13.61	152	288344	50.00	ug/l	0.00 82.28%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	153242	51.05	ug/l	0.00
Spiked Amount	50.000	Range 85 - 115	Recovery	=	102.10%	
40) 1,2-Dichloroethane-d4	7.56	65	143038	49.88	ug/l	0.00
Spiked Amount	50.000	Range 70 - 120	Recovery	=	99.76%	
55) Toluene-d8	10.30	98	437498	51.03	ug/l	0.00
Spiked Amount	50.000	Range 85 - 120	Recovery	=	102.06%	
76) 4-Bromofluorobenzene	12.68	95	183197	48.87	ug/l	0.00
Spiked Amount	50.000	Range 75 - 120	Recovery	=	97.74%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	453	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.76	43	153	N.D.		
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.90	76	288	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.28	84	212	Below Cal	#	52
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

slc/08

(#) = qualifier out of range (m) = manual integration
 Y0502017.D Y8260W.M Mon May 05 12:26:52 2008

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502017.D
 Acq On : 2 May 2008 13:06
 Sample : JPL103-007
 Misc : #1 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:26 2008

Vial: 13
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	5.47	96	70		N.D.	
30) 2-Butanone	5.63	43	127		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.78	78	54		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	0.00	92	0		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	0.00	43	0		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	0.00	112	0		N.D.	
66) 1-Chlorohexane	11.70	91	55		N.D.	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

stolosca

Quantitation Report

Data File : X:\MSVOA\YODA\050208\Y0502017.D
 Acq On : 2 May 2008 13:06
 Sample : JPL103-007
 Misc : #1 5mL+IS/SS(MV8-45-10) (524)
 MS Integration Params: rteint.p
 Quant Time: May 5 12:26 2008

Vial: 13
 Operator: LPM
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.82	91	56		N.D.	
69) m,p-Xylene	0.00	106	0		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	12.26	104	75		N.D.	
72) Bromoform	12.69	173	224		N.D.	
73) Isopropylbenzene	12.68	105	344		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.76	156	71		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.68	91	188		N.D.	
82) 4-Chlorotoluene	12.90	91	161		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	71		N.D.	
88) 4-Isopropyltoluene	13.59	119	1175		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	191		N.D.	
90) 1,2-Dichlorobenzene	13.63	146	191		N.D.	
91) n-Butylbenzene	13.92	91	220		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	128		N.D.	
94) Hexachlorobutadiene	15.31	225	139		N.D.	
95) Naphthalene	15.36	128	91		N.D.	
96) 1,2,3-Trichlorobenzene	0.00	180	0		N.D.	

stefosca

TIC FORMS

SDG JPL103

VOLATILES ANALYSIS

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B050208MVOWY1

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: B050208MVOWY1
 Lab File ID: Y0502008.D
 Date Collected: _____
 Date Analyzed: 05/02/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050208\Y0502008.D Vial: 5
Acq On : 2 May 2008 9:23 Operator: LPM
Sample : B050208MVOWY1 Inst : yoda
Misc : 5mL PFW+IS/SS(MV8-45-10) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0502008.D Y8260W.M Wed May 14 10:15:41 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-20-5

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-001
 Lab File ID: Y0502018.D
 Date Collected: 04/30/2008
 Date Analyzed: 05/02/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050208\Y0502018.D Vial: 14
Acq On : 2 May 2008 13:31 Operator: LPM
Sample : JPL103-001 Inst : yoda
Misc : #3 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0502018.D Y8260W.M Wed May 14 10:14:46 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-20-4

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-002
 Lab File ID: Y0502019.D
 Date Collected: 04/30/2008
 Date Analyzed: 05/02/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050208\Y0502019.D Vial: 15
Acq On : 2 May 2008 13:55 Operator: LPM
Sample : JPL103-002 Inst : yoda
Misc : #3 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0502019.D Y8260W.M Wed May 14 10:14:53 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-20-3

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-003
 Lab File ID: Y0502020.D
 Date Collected: 04/30/2008
 Date Analyzed: 05/02/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050208\Y0502020.D Vial: 16
Acq On : 2 May 2008 14:20 Operator: LPM
Sample : JPL103-003 Inst : yoda
Misc : #4 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0502020.D Y8260W.M Wed May 14 10:15:01 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-20-2

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-004
 Lab File ID: Y0502021.D
 Date Collected: 04/30/2008
 Date Analyzed: 05/02/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

01	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
02					
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050208\Y0502021.D Vial: 17
Acq On : 2 May 2008 14:45 Operator: LPM
Sample : JPL103-004 Inst : yoda
Misc : #3 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0502021.D Y8260W.M Wed May 14 10:15:07 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-20-1

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-005
 Lab File ID: Y0502022.D
 Date Collected: 04/30/2008
 Date Analyzed: 05/02/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

01	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
02					
03					
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050208\Y0502022.D Vial: 18
Acq On : 2 May 2008 15:10 Operator: LPM
Sample : JPL103-005 Inst : yoda
Misc : #8 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0502022.D Y8260W.M Wed May 14 10:15:15 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-06-04/30/08

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-006
 Lab File ID: Y0502023.D
 Date Collected: 04/30/2008
 Date Analyzed: 05/02/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050208\Y0502023.D Vial: 19
Acq On : 2 May 2008 15:34 Operator: LPM
Sample : JPL103-006 Inst : yoda
Misc : #3 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0502023.D Y8260W.M Wed May 14 10:15:22 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-06-04/30/08

Lab Name: Pace Analytical Services
 SDG No.: JPL103
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: DB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027771
 Lab Sample ID: JPL103-007
 Lab File ID: Y0502017.D
 Date Collected: 04/30/2008
 Date Analyzed: 05/02/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050208\Y0502017.D Vial: 13
Acq On : 2 May 2008 13:06 Operator: LPM
Sample : JPL103-007 Inst : yoda
Misc : #1 5mL+IS/SS(MV8-45-10) (524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0502017.D Y8260W.M Wed May 14 10:14:38 2008

Metals Data

JPL103

COVER PAGE-INORGANIC ANALYSES DATA PACKAGE

Lab Name: Pace Analytical Services, Inc.

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL103

SOW No.: _____

Sample No.	Lab Sample ID
MW-20-5	JPL103-001
MW-20-4	JPL103-002
MW-20-3	JPL103-003
MW-20-2	JPL103-004
MW-20-1	JPL103-005
MW-20-1MS	JPL103-005MS
MW-20-1MSD	JPL103-005MSD
EB-06-04/30/08	JPL103-006

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No NO

If yes-was raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is technically complete, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: *Bill Ambacher*

Name: Bill Ambacher

Date: 6/12/08

Title: Inorganics Technical Director

Metals Analysis Data Sheets

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-20-5

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL103

Matrix (soil/water): Water

Lab Sample ID: JPL103-001

Level (low/med): LOW

Date Received: 05/01/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028099
7440-70-2	Calcium	5000	U		P	R028272
7440-47-3	Chromium	1.00	U		M	R028099
7439-89-6	Iron	100	U		P	R028272
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	5000	U	E	P	R028697
7440-09-7	Potassium	5000	U		P	R028272
7440-23-5	Sodium	60100			P	R028272

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/12/2008 10:48

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-20-4

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL103

Matrix (soil/water): Water

Lab Sample ID: JPL103-002

Level (low/med): LOW

Date Received: 05/01/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.57			M	R028099
7440-70-2	Calcium	10200			P	R028272
7440-47-3	Chromium	1.00	U		M	R028099
7439-89-6	Iron	100	U		P	R028272
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	5000	U	E	P	R028697
7440-09-7	Potassium	5000	U		P	R028272
7440-23-5	Sodium	59600			P	R028272

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/12/2008 10:48

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-20-3

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorinLab Code: PACESDG No.: JPL103Matrix (soil/water): WaterLab Sample ID: JPL103-003Level (low/med): LOWDate Received: 05/01/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.42			M	R028099
7440-70-2	Calcium	26000			P	R028272
7440-47-3	Chromium	1.00	U		M	R028099
7439-89-6	Iron	100	U		P	R028272
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	13700		E	P	R028697
7440-09-7	Potassium	5000	U		P	R028272
7440-23-5	Sodium	58900			P	R028272

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: NoComment _____

Date Printed: 6/12/2008 10:48

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-20-2

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL103

Matrix (soil/water): Water

Lab Sample ID: JPL103-004

Level (low/med): LOW

Date Received: 05/01/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.15			M	R028099
7440-70-2	Calcium	36600			P	R028272
7440-47-3	Chromium	1.00	U		M	R028099
7439-89-6	Iron	100	U		P	R028272
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	17200		E	P	R028697
7440-09-7	Potassium	5000	U		P	R028272
7440-23-5	Sodium	15800			P	R028272

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/12/2008 10:48

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-20-1

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorinLab Code: PACESDG No.: JPL103Matrix (soil/water): WaterLab Sample ID: JPL103-005Level (low/med): LOWDate Received: 05/01/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028099
7440-70-2	Calcium	51800			P	R028272
7440-47-3	Chromium	1.00	U		M	R028099
7439-89-6	Iron	100	U		P	R028272
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	17600		E	P	R028697
7440-09-7	Potassium	5000	U		P	R028272
7440-23-5	Sodium	17500			P	R028272

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: NoComment _____

Date Printed: 6/12/2008 10:48

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-06-04/30/08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL103

Matrix (soil/water): Water

Lab Sample ID: JPL103-006

Level (low/med): LOW

Date Received: 05/01/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028099
7440-70-2	Calcium	5000	U		P	R028272
7440-47-3	Chromium	1.00	U		M	R028099
7439-89-6	Iron	100	U		P	R028697
7439-92-1	Lead	1.00	U		M	R028099
7439-95-4	Magnesium	5000	U	E	P	R028697
7440-09-7	Potassium	5000	U		P	R028272
7440-23-5	Sodium	5000	U		P	R028272

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/12/2008 10:48

Miscellaneous Inorganic Data

JPL103

COVER PAGE-INORGANIC ANALYSES DATA PACKAGE

Lab Name: Pace Analytical Services, Inc.

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL103

SOW No.: _____

<u>Sample No.</u>
<u>MW-20-5</u>
<u>MW-20-4</u>
<u>MW-20-3</u>
<u>MW-20-2</u>
<u>MW-20-1</u>
<u>EB-06-04/30/08</u>

<u>Lab Sample ID</u>
<u>JPL103-001</u>
<u>JPL103-002</u>
<u>JPL103-003</u>
<u>JPL103-004</u>
<u>JPL103-005</u>
<u>JPL103-006</u>

Comments:

I certify that this data package is technically complete, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: 

Name: Raul J. Nino

Date: May 28, 2008

Title: Inorganic Supervisor

Inorganic Analysis Data Sheets

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL103
Sample Number: MW-20-4 **Date/Time Collected:** 04/30/2008 08:47
Lab Sample ID: JPL103-002 **Date/Time Received:** 05/01/2008 08:35
Method/Qbatch*: E150.1/28944 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	8.8		0.10	0.10	05/01/2008	05/01/2008	R027753

Method/Qbatch*: E160.1/29004 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	170		2.0	2.0	05/05/2008	05/07/2008	R027800

Method/Qbatch*: E300.0/28945 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027754\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.20	U	0.20	0.055	05/01/2008	05/01/2008	R027754
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	05/01/2008	05/01/2008	R027754
Sulfate as SO4	14808-79-8	1	19		1.0	0.17	05/01/2008	05/01/2008	R027754
Chloride	16887-00-6	10	10		10	0.76	05/01/2008	05/01/2008	R027754
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	05/01/2008	05/01/2008	R027754

Method/Qbatch*: E310.1/29245 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	20		2.0	2.0	05/13/2008	05/13/2008	R028026
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	110		2.0	2.0	05/13/2008	05/13/2008	R028026

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL103
Sample Number: MW-20-4 **Date/Time Collected:** 04/30/2008 08:47
Lab Sample ID: JPL103-002 **Date/Time Received:** 05/01/2008 08:35
Method/Qbatch*: E314.0/29035 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	05/02/2008	05/05/2008	R027833

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL103
Sample Number: MW-20-3 **Date/Time Collected:** 04/30/2008 09:30
Lab Sample ID: JPL103-003 **Date/Time Received:** 05/01/2008 08:35
Method/Qbatch*: E150.1/28944 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	8.3		0.10	0.10	05/01/2008	05/01/2008	R027753

Method/Qbatch*: E160.1/29004 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	260		2.0	2.0	05/05/2008	05/07/2008	R027800

Method/Qbatch*: E300.0/28945 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027754\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.68		0.20	0.055	05/01/2008	05/01/2008	R027754
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	05/01/2008	05/01/2008	R027754
Sulfate as SO4	14808-79-8	10	28		10	1.7	05/01/2008	05/01/2008	R027754
Chloride	16887-00-6	10	38		10	0.76	05/01/2008	05/01/2008	R027754
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	05/01/2008	05/01/2008	R027754

Method/Qbatch*: E310.1/29245 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/13/2008	05/13/2008	R028026
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	170		2.0	2.0	05/13/2008	05/13/2008	R028026

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL103
Sample Number: MW-20-3 **Date/Time Collected:** 04/30/2008 09:30
Lab Sample ID: JPL103-003 **Date/Time Received:** 05/01/2008 08:35
Method/Qbatch*: E314.0/29035 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	05/02/2008	05/05/2008	R027833

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL103
Sample Number: MW-20-2 **Date/Time Collected:** 04/30/2008 10:10
Lab Sample ID: JPL103-004 **Date/Time Received:** 05/01/2008 08:35
Method/Qbatch*: E150.1/28944 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	8.1		0.10	0.10	05/01/2008	05/01/2008	R027753

Method/Qbatch*: E160.1/29004 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	220		2.0	2.0	05/05/2008	05/07/2008	R027800

Method/Qbatch*: E300.0/28945 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027754\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	2.0		0.20	0.055	05/01/2008	05/01/2008	R027754
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	05/01/2008	05/01/2008	R027754
Sulfate as SO4	14808-79-8	10	30		10	1.7	05/01/2008	05/01/2008	R027754
Chloride	16887-00-6	10	14		10	0.76	05/01/2008	05/01/2008	R027754
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	05/01/2008	05/01/2008	R027754

Method/Qbatch*: E310.1/29245 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/13/2008	05/13/2008	R028026
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	140		2.0	2.0	05/13/2008	05/13/2008	R028026

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL103
Sample Number: MW-20-2 **Date/Time Collected:** 04/30/2008 10:10
Lab Sample ID: JPL103-004 **Date/Time Received:** 05/01/2008 08:35
Method/Qbatch*: E314.0/29035 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	05/02/2008	05/05/2008	R027833

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL103
Sample Number: MW-20-1 **Date/Time Collected:** 04/30/2008 10:54
Lab Sample ID: JPL103-005 **Date/Time Received:** 05/01/2008 08:35

Method/Qbatch*: E150.1/28944 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.5		0.10	0.10	05/01/2008	05/01/2008	R027753

Method/Qbatch*: E160.1/29004 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	270		2.0	2.0	05/05/2008	05/07/2008	R027800

Method/Qbatch*: E300.0/28945 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027754\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	2.5		0.20	0.055	05/01/2008	05/01/2008	R027754
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	05/01/2008	05/01/2008	R027754
Sulfate as SO4	14808-79-8	10	56		10	1.7	05/01/2008	05/01/2008	R027754
Chloride	16887-00-6	10	17		10	0.76	05/01/2008	05/01/2008	R027754
Orthophosphate	7723-14-0	10	10	U	10	3.3	05/01/2008	05/01/2008	R027754

Method/Qbatch*: E310.1/29245 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/13/2008	05/13/2008	R028026
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	160		2.0	2.0	05/13/2008	05/13/2008	R028026

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL103
Sample Number: MW-20-1 **Date/Time Collected:** 04/30/2008 10:54
Lab Sample ID: JPL103-005 **Date/Time Received:** 05/01/2008 08:35
Method/Qbatch*: E314.0/29035 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	05/02/2008	05/05/2008	R027833

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring
 SDG Number: JPL103
 Sample Number: EB-06-04/30/08 Date/Time Collected: 04/30/2008 10:32
 Lab Sample ID: JPL103-006 Date/Time Received: 05/01/2008 08:35

Method/Qbatch*: E150.1/28944 Unit: pH Units
 Instrument: pH meter (1) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.7		0.10	0.10	05/01/2008	05/01/2008	R027753

Method/Qbatch*: E160.1/29004 Unit: mg/L
 Instrument: Balance (01) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	2.0	U	2.0	2.0	05/05/2008	05/07/2008	R027800

Method/Qbatch*: E300.0/28945 Unit: mg/L
 Instrument: Ion Chromatograph (2) File: R027754\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.20	U	0.20	0.055	05/01/2008	05/01/2008	R027754
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	05/01/2008	05/01/2008	R027754
Sulfate as SO4	14808-79-8	1	1.0	U	1.0	0.17	05/01/2008	05/01/2008	R027754
Chloride	16887-00-6	1	1.0	U	1.0	0.076	05/01/2008	05/01/2008	R027754
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	05/01/2008	05/01/2008	R027754

Method/Qbatch*: E310.1/29245 Unit: mg/L
 Instrument: None File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/13/2008	05/13/2008	R028026
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	2.0	U	2.0	2.0	05/13/2008	05/13/2008	R028026

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL103
Sample Number: EB-06-04/30/08 **Date/Time Collected:** 04/30/2008 10:32
Lab Sample ID: JPL103-006 **Date/Time Received:** 05/01/2008 08:35
Method/Qbatch*: E314.0/29035 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	05/02/2008	05/05/2008	R027833

*QBatch=QC/Preparation Batch

PACE ANALYTICAL SERVICES, INC.

SAMPLE DATA PACKAGE

BATTELLE

SDG NO.: JPL104

June 16, 2008

Pace Analytical Services, Inc.
 940 S. Harney
 Seattle, WA 98108

To: Battelle
 Project Name: JPL Groundwater
 SDG No.: JPL104
 Date of Report: June 16, 2008

SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:

Sample Receipt and Identification:

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<u>Client Sample Identification</u>	<u>Pace Sample Identification</u>	<u>Testing Analytical Request</u>
MW-17-5	JPL104-001	VOA/MET/INO
MW-17-4	JPL104-002	VOA/SVOA/MET/INO
MW-17-3	JPL104-003	VOA/MET/INO
MW-17-2	JPL104-004	VOA/MET/INO
MW-17-1	JPL104-005	VOA/MET/INO
EB-07-5/1/08	JPL104-006	VOA/MET/INO
TB-07-5/1/08	JPL104-007	VOA

Analytical Request Key:

- VOA = Volatiles (524.2)
- SVOA = 1,4-Dioxane (8270)
- MET = Metals (200.7/200.8)
- INO = Chloride, Sulfate, Ortho phosphorus (300.0)
 Nitrate + Nitrite (353.2)
 Nitrate (353.2)
 Nitrite (354.1)
 Alkalinity (310.1)
 Perchlorate (314.0)
 Total Dissolved Solids (160.1)
 pH (150.1)

Summary of NELAC test accreditation

Determination	NELAC approved
150.1 pH	YES
160.1 Total Dissolved Solids	YES
200.7 K, Na, Mg, Ca, Fe	YES
200.8 As, Cr, Pb	YES
300 Anions Cl and SO4	YES
310.1M Carb./Bicarb. Alkalinity	YES
314.0 Perchlorate	YES

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Seattle, WA 98108

353.2 Nitrate (as N) by Calc., water	YES
353.2 Nitrate + Nitrite (as N), Water	YES
354.1 Nitrite (as N), Water	YES
365.2 Ortho-Phosphorus as P, Water	YES
524.2 Volatile Organics + TICs (JPL Special list)	YES
8270SIM-level 1,4-Dioxane (1.5 ppb RL; J to 1 ppb)	YES
TurMet for 200.7/200.8 TurMet	NO

We assert that the results reported here relate only to the samples listed in this report.

Sample Receipt Comments:

The following discrepancies were noted in association with the receipt of these samples.

One of three volatiles vials for MW-17-3 contained air bubbles less than ¼ of an inch in size.

Two of two volatiles vials for TB-07-5/1/08 contained air bubbles more than ¼ of an inch in size.

Samples MW-17-5, MW-17-4, MW-17-3 and MW-17-2 were received out of hold for pH. Samples MW-17-1 and EB-07-5/1/08 went out of hold for pH while they were being logged in.

The temperature blank was measured at a temperature below the control limit of 4°C ± 2°C. The client was notified of this discrepancy via email of sample receipt.

GENERAL REMARKS ON ORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

Manual Integrations:

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

Holding Time Compliance:

Volatile Organic Compounds:

The holding time is 14 days calculated from the date of collection in both soil and water samples. All samples were analyzed within holding times.

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Semi-Volatile Organic Compounds:

The holding time to extraction is 7 days in water and 14 days in soil calculated from the date of collection. In either case, the holding time from extraction to analysis is 40 days. All samples were extracted and analyzed within holding times.

Volatiles Fraction:

Quality Control Analysis:

MS/MSD analyses were not performed due to insufficient sample volume. Except for cis-1,3-dichloropropene, which recovered high, all spiking analytes in the blank spike analysis recovered within control limits. Because cis-1,3-dichloropropene was not detected in any of the associated samples, no further action was taken.

All other quality control parameters were met.

Semivolatiles Fraction:

All quality control parameters were met.

GENERAL REMARKS ON INORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

ICP Metals:

On the first timed and dated page of each ICP run, the data to be reported or rejected will be tabulated for that run.

SPECIFIC REMARKS ON INORGANIC ANALYSES:

Holding Time Compliance:

Pace calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was

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appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None
Chloride	28 days	None
Sulfate	28 days	None
Nitrate + Nitrite	28 days	None
Nitrate	48 hours	None
Nitrite	48 hours	None
Ortho phosphorus	48 hours	None
Alkalinity	14 days	None
Total Dissolved Solids	7 days	None
pH	24 hours	None

ICP Metals:

For the run sequence R028272, the final CCV fell below the lower control limit for iron. No sample results for iron were reported from this analytical run. No further corrective action was required. Data have not been flagged for this event.

ICP-MS Metals:

No comments.

Miscellaneous Inorganics:

In the run sequence R027797 for "353.2 Nitrate+Nitrite", the continuing calibration verification standard 5 had exceeded the established upper control limits. Since this continuing calibration verification standard did not bracket the samples, no further action was taken.

In the run sequence R028150 for "300.0 Anions", the matrix spike and matrix spike duplicate exceeded the established lower control limit for chloride. Since all of the other quality control samples were in control, no further action was taken.

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ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
 - J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
 - T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
 - E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
 - P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
 - C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
 - ~ This result has been identified as non-primary based on the analyst's professional judgment.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

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Seattle, WA 98108

INORGANIC ANALYSES:

- J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.
- E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.
- N Spiked sample recovery not within control limits.
- * Duplicate analysis not within control limits.
- Z Denotes data deemed unusable by the analyst.

CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.


Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

RELEASE OF DATA

Pace Analytical Services, Inc. certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,


for
Kara Godineaux
Project Manager

6/16/08
(DATE)


Harry Rombert
Quality Assurance Officer

6/16/08
(DATE)

HOW TO CONTACT US:

All Pace Analytical Services, Inc. staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

REQUESTS FOR DUPLICATE COPIES:

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Pace will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

ATTACHMENT A

Chain-of-Custody Copies

PACE ANALYTICAL SERVICES, INC. - SAMPLE CONFIRMATION LOG																
Sample #	VTSR	Collected On	Client ID	PH	160.1 Total Dissolved Solids	200.7 K, Na, Mg, Ca, Fe	200.8 As, Cr, Pb	300 Arsenic Cl and SO4	310.1M Carb./Bleach. Alkalinity	314.0 Perchlorate	353.2 Nitrate (as N) by Calc., water	353.2 Nitrate + Nitrite (as N), Water	354.1 Nitrite (as N), Water	365.2 Ortho-phosphorus as P, Water	524.2 Volatile Organics + TICs (JPL Special list)	8270STM-level 1,4-Dioxane (15 ppb RL; J to 1 ppb)
WD JPL104-001	05/02/2008 10:35 AM	05/01/2008 08:00 AM	MW-17-5	A-	A-	IN	IN	IN	IN	IN	IN	A-	A-	A-	IN	
WD JPL104-002	05/02/2008 10:35 AM	05/01/2008 08:36 AM	MW-17-4	A-	A-	IN	IN	IN	IN	IN	IN	A-	A-	A-	IN	IN
WD JPL104-003	05/02/2008 10:35 AM	05/01/2008 09:54 AM	MW-17-3	A-	A-	IN	IN	IN	IN	IN	IN	A-	A-	A-	IN	
WD JPL104-004	05/02/2008 10:35 AM	05/01/2008 10:30 AM	MW-17-2	A-	A-	IN	IN	IN	IN	IN	IN	A-	A-	A-	IN	
WD JPL104-005	05/02/2008 10:35 AM	05/01/2008 11:05 AM	MW-17-1	A-	A-	IN	IN	IN	IN	IN	IN	A-	A-	A-	IN	
WD JPL104-006	05/02/2008 10:35 AM	05/01/2008 10:52 AM	EB-07-5/1/08	A-	A-	IN	IN	IN	IN	IN	IN	A-	A-	A-	IN	
WD JPL104-007	05/02/2008 10:35 AM	05/01/2008 12:00 AM	TR-07-5/1/08			IN	IN	IN	IN	IN	IN	A-	A-	A-	IN	

Approved By: _____ On: _____

Notes: _____

_____ Samples identified with a "*" client has requested QC for _____

_____ LEGEND: -:Started, +:Completed, IN:Logged In, P:Preparation, A:Analysis, X:Cancelled, PL:Pre-logged

_____ Matrices: Water=WD

_____ FORM I,TL-PM-8.0

THIS INFORMATION WILL BE USED FOR REPORTING/BILLING (SEE BELOW)

COMPANY: BOTTLETS
 ADDRESS: 3990 OLD TOWN AVE., C-205
SAV DIELZO, CA 92110
 ATTENTION: DAVID COUNEL
 PROJECT NAME: SPL CAL NOV 2008
 PROJECT CONTACT: DAVID COUNEL
 TELEPHONE: 619-726-7311 FAX: _____
 JOB/P.O. NO.: 6496090/214319

CHAIN OF CUSTODY RECORD SDG # _____ PAGE 1 OF 1

WORK ORDER ID# SPL104 ISE 7152
 SUBMITTED AT: _____

TESTS TO PERFORM

MATRIX: WATER, SOIL OR SPECIFY
 NO. OF CONTAINERS
LDL (524.2)
TOTAL Cr (200.8)
LEAD (200.8)
ARSENIC (200.8)
CHLORIDE (314.0)
DIETHYLENE GLYCOL (270)

OBSERVATIONS
 COMMENTS SPECIAL
 INSTRUCTIONS

LAB SA#	SAMPLE ID / LOCATION	DATE	TIME	NO. OF CONTAINERS	TESTS TO PERFORM	OBSERVATIONS
1	MW-17-5	9/1/08	800	5	X X X X X X X X X X	
2	MW-17-4		836	6	X X X X X X X X X X	
3	MW-17-3		954	5	X X X X X X X X X X	
4	MW-17-2		1030	5	X X X X X X X X X X	
5	MW-17-1		1105	5	X X X X X X X X X X	LEVEL III RC
6	EB-07-5/1/08		1052	5	X X X X X X X X X X	EQUIPMENT BLANK
7	TR-07-5/1/08			2	X X	TRIP BLANK

A. A standard turnaround time is assumed unless otherwise marked.
 B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

1. USE ONE LINE PER SAMPLE
2. BE SPECIFIC IN TEST REQUESTS
3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.

INSTRUCTIONS: _____
 BILLING INFORMATION: _____
 NAME: BOTTLETS
 ADDRESS: 505 RAIL AVE.
 CITY, STATE, ZIP: COLUMBIAS, OH 43201
 ATTN: CECILIA TAMPINS

* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL
 TURNAROUND REQUEST
 STD. 10-14 WORKING DAYS
 24-48 HRS. (100% SUR)
 72 HRS. (75% SUR)
 5 DAYS (50% SUR)
 OTHER: _____
 TEMP: _____
 CUSTODY SEAL: Y N N/A

RELINQUISHED BY (SIGN AND PRINT): MANCO NENOSZA DATE/TIME: 5/1/08 1300
 RECEIVED BY (SIGN AND PRINT): RACHEL FRANK DATE/TIME: 5/2/08 1035

Supplemental Sample Receipt Log
Pace Analytical Services, Inc.

SDG: JPL104
Cooler: AAD824
Temperatures: 1.8
COC #: 46066

Sample	Bottle #	Bottle Description	pH	Bubbles
JPL104-001	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, H2SO4	<2	N/A
	0006	500 ml cylinder, poly, HNO3	<2	N/A
JPL104-002	0001	1000 mL boston round, amber glass	7	N/A
	0002	1000 mL cylinder, poly	7	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	500 ml cylinder, poly, H2SO4	<2	N/A
	0007	500 ml cylinder, poly, HNO3	<2	N/A
JPL104-003	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	< 1/4
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, H2SO4	<2	N/A
	0006	500 ml cylinder, poly, HNO3	<2	N/A
JPL104-004	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, H2SO4	<2	N/A
	0006	500 ml cylinder, poly, HNO3	<2	N/A
JPL104-005	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, H2SO4	<2	N/A
	0006	500 ml cylinder, poly, HNO3	<2	N/A

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2
Base Preserved pH pH must be greater than 12
NC Not Checked for pH

Supplemental Sample Receipt Log
Pace Analytical Services, Inc.

SDG: JPL104
Cooler: AAD824
Temperatures: 1.8
COC #: 46066

Sample	Bottle #	Bottle Description	pH	Bubbles
JPL104-006	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, H2SO4	<2	N/A
	0006	500 ml cylinder, poly, HNO3	<2	N/A
JPL104-007	0001	40 ml OTWS, clear glass, HCl	N/C	> 1/4
	0002	40 ml OTWS, clear glass, HCl	N/C	> 1/4

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2

Base Preserved pH pH must be greater than 12

NC Not Checked for pH

Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

ATTACHMENT B

Index

Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

Battelle

SDG No.: JPL104

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Completed and checked by: Judy Ecklund Date: 6/16/08

QC Summary

SDG #JPL104

Volatiles Analysis

2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL104

Run Sequence: R027971

Level: (LOW/MED) NONE

CLIENT SAMPLE NUMBER	SMC1 (DCA) #	SMC2 (BFB) #	SMC3 (TOL) #	SMC4 () #	TOT OUT
(JPL104-006) EB-07-5/1/08	102	112	100		0
(JPL104-005) MW-17-1	104	115	102		0
(JPL104-004) MW-17-2	102	114	101		0
(JPL104-003) MW-17-3	102	116	102		0
(JPL104-002) MW-17-4	102	116	102		0
(JPL104-001) MW-17-5	98	116	101		0
(JPL104-007) TB-07-5/1/08	99	115	102		0
(B050708MVOWY1) B050708MVOWY1	99	118	100		0
(S050708MVOWY1) S050708MVOWY1	95	121	101		0

	QC LIMITS
SMC1 (DCA) = 1,2-Dichloroethane-d4	60-140
SMC2 (BFB) = 4-Bromofluorobenzene	60-140
SMC3 (TOL) = Toluene-d8	60-140
SMC4 () =	

Column to be used to flag recovery values
* Values outside of contract required QC limits

3B
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 BS Run Sequence: R027971 SDG No.: JPL104
 BS Lab Sample ID: S050708MVOWY1
 Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
Dichlorodifluoromethane	50.0	38.18	76		60-140
Chloromethane	50.0	35.77	72		60-140
Vinyl chloride	50.0	38.73	77		60-140
Bromomethane	50.0	39.46	79		60-140
Chloroethane	50.0	39.93	80		60-140
Trichlorofluoromethane	50.0	42	84		60-140
1,1-Dichloroethene	50.0	42.67	85		60-140
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	39.57	79		60-140
Methylene chloride	50.0	40.52	81		60-140
Methyl tert-butyl ether	50.0	46.34	93		60-140
trans-1,2-Dichloroethene	50.0	39.45	79		60-140
1,1-Dichloroethane	50.0	39.21	78		60-140
2,2-Dichloropropane	50.0	41.29	83		60-140
cis-1,2-Dichloroethene	50.0	42	84		60-140
2-Butanone	50.0	64.36	129		60-140
Bromochloromethane	50.0	42.88	86		60-140
Chloroform	50.0	39.4	79		60-140
1,1,1-Trichloroethane	50.0	41.1	82		60-140
Carbon tetrachloride	50.0	43.98	88		60-140
1,1-Dichloropropene	50.0	49.52	99		60-140
Benzene	50.0	44.39	89		60-140
1,2-Dichloroethane	50.0	46.05	92		60-140
Trichloroethene	50.0	45.1	90		60-140
1,2-Dichloropropane	50.0	47.98	96		60-140
Dibromomethane	50.0	48.25	97		60-140
Bromodichloromethane	50.0	49.33	99		60-140
cis-1,3-Dichloropropene	50.0	74.09	148	*	60-140
4-Methyl-2-pentanone	50.0	62.18	124		60-140
Toluene	50.0	48.62	97		60-140
trans-1,3-Dichloropropene	50.0	58.48	117		60-140
1,1,2-Trichloroethane	50.0	49.82	100		60-140
Tetrachloroethene	50.0	45.78	92		60-140
1,3-Dichloropropane	50.0	55.07	110		60-140
Dibromochloromethane	50.0	54.39	109		60-140

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

Spike Recovery: 1 out of 63 outside limits

COMMENTS:

Date Printed: 5/20/2008 14:57

3B
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin

BS Run Sequence: R027971 SDG No.: JPL104

BS Lab Sample ID: S050708MVOWY1

Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
1,2-Dibromoethane	50.0	55.45	111		60-140
Chlorobenzene	50.0	46.29	93		60-140
Ethylbenzene	50.0	46.56	93		60-140
1,1,1,2-Tetrachloroethane	50.0	40.83	82		60-140
m,p-Xylene	100	94.82	95		60-140
o-Xylene	50.0	44.32	89		60-140
Styrene	50.0	49.31	99		60-140
Bromoform	50.0	49.74	99		60-140
Isopropylbenzene	50.0	45.89	92		60-140
1,1,2,2-Tetrachloroethane	50.0	50.96	102		60-140
n-Propylbenzene	50.0	54.74	109		60-140
Bromobenzene	50.0	53.92	108		60-140
1,2,3-Trichloropropane	50.0	54.92	110		60-140
2-Chlorotoluene	50.0	50.93	102		60-140
1,3,5-Trimethylbenzene	50.0	48.94	98		60-140
4-Chlorotoluene	50.0	53.3	107		60-140
tert-Butylbenzene	50.0	49.86	100		60-140
1,2,4-Trimethylbenzene	50.0	49.17	98		60-140
sec-Butylbenzene	50.0	49.42	99		60-140
4-Isopropyltoluene	50.0	53.89	108		60-140
1,3-Dichlorobenzene	50.0	45.95	92		60-140
1,4-Dichlorobenzene	50.0	44.97	90		60-140
n-Butylbenzene	50.0	49.83	100		60-140
1,2-Dichlorobenzene	50.0	43.15	86		60-140
1,2-Dibromo-3-chloropropane	50.0	46.27	93		60-140
1,2,4-Trichlorobenzene	50.0	44.38	89		60-140
Hexachlorobutadiene	50.0	42.98	86		60-140
Naphthalene	50.0	47.88	96		60-140
1,2,3-Trichlorobenzene	50.0	41.9	84		60-140

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

Spike Recovery: 1 out of 63 outside limits

COMMENTS:

Date Printed: 5/20/2008 14:57

4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B050708MVOWY1

Lab Name Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL104

Lab File ID: Y0507022.D

Lab Sample ID: B050708MVOWY1

Date Analyzed: 05/07/2008

Time Analyzed: 17:09

GC Column: ZB-624 20m ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: 5973Y

Matrix: Water

	CLIENT SAMPLE NO.	LAB SAMPLE ID.	LAB FILE ID.	DATE ANALYZED	TIME ANALYZED	RUN SEQUENCE
01	S050708MVOWY1	S050708MVOWY1	Y0507019.D	05/07/2008	15:53	R027971
02	TB-07-5/1/08	JPL104-007	Y0507023.D	05/07/2008	17:34	R027971
03	MW-17-5	JPL104-001	Y0507026.D	05/07/2008	18:48	R027971
04	MW-17-4	JPL104-002	Y0507027.D	05/07/2008	19:13	R027971
05	MW-17-3	JPL104-003	Y0507028.D	05/07/2008	19:38	R027971
06	MW-17-2	JPL104-004	Y0507029.D	05/07/2008	20:02	R027971
07	MW-17-1	JPL104-005	Y0507030.D	05/07/2008	20:27	R027971
08	EB-07-5/1/08	JPL104-006	Y0507031.D	05/07/2008	20:52	R027971
09						
10						
11						
12						
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COMMENTS:

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

BFBY5

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 Run Sequence: CAL1310 SDG No.: JPL104
 Lab File ID: Y0414036.D BFB Injection Date: 04/14/2008
 Instrument ID: 5973Y BFB Injection Time: 21:43
 GC Column DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	17.8
75	30% to 60% of mass 95	48.1
95	base peak. 100% relative abundance	100
96	5% to 9% of mass 95	6.8
173	less than 2% of mass 174	0 ()1
174	greater than 50% of mass 95	99.4
175	5% to 9% of mass 17	7.2 ()1
176	greater than 95%, but less than 101% of mass 174	95.4 ()1
177	5% to 9% of mass 176	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 SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0.3	VSTD0.3	Y0414037.D	04/14/2008	22:08
02	VSTD0.5	VSTD0.5	Y0414038.D	04/14/2008	22:33
03	VSTD001	VSTD001	Y0414039.D	04/14/2008	22:58
04	VSTD005	VSTD005	Y0414040.D	04/14/2008	23:22
05	VSTD010	VSTD010	Y0414041.D	04/14/2008	23:47
06	VSTD050	VSTD050	Y0414042.D	04/15/2008	00:12
07	VSTD100	VSTD100	Y0414043.D	04/15/2008	00:36
08	VSTD200	VSTD200	Y0414044.D	04/15/2008	01:01
09					
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21					
22					

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

BFBY1

Lab Name: Pace Analytical Services

Contract: _____

Run Sequence: R027335SDG No.: ~~NESDI3~~ JPL104 QENA 5/20/08Lab File ID: Y0415011.DBFB Injection Date: 04/15/2008Instrument ID: 5973YBFB Injection Time: 09:55GC Column DB-624 20mID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	18
75	30% to 60% of mass 95	48.6
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	6.6
173	less than 2% of mass 174	0()1
174	greater than 50% of mass 95	94.8
175	5% to 9% of mass 17	8.3()1
176	greater than 95%, but less than 101% of mass 174	99.1()1
177	5% to 9% of mass 176	6.1()2

1 - Value is %mass 174

2 - Value is %mass 176

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	S041508MVOWY2	S041508MVOWY2	Y0415015.D	04/15/2008	11:39
02					
03					
04					
05					
06					
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22					

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

VSTD050Y6/BFBY7

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 Run Sequence: R027971 SDG No.: JPL104
 Lab File ID: Y0507018a.d BFB Injection Date: 05/07/2008
 Instrument ID: 5973Y BFB Injection Time: 15:27
 GC Column ZB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	17.1
75	30% to 60% of mass 95	45.3
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	6.8
173	less than 2% of mass 174	0()1
174	greater than 50% of mass 95	101
175	5% to 9% of mass 17	7.5()1
176	greater than 95%, but less than 101% of mass 174	96.5()1
177	5% to 9% of mass 176	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 SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050Y6	VSTD050Y6	Y0507018.D	05/07/2008	15:27
02	S050708MVOWY1	S050708MVOWY1	Y0507019.D	05/07/2008	15:53
03	B050708MVOWY1	B050708MVOWY1	Y0507022.D	05/07/2008	17:09
04	TB-07-5/1/08	JPL104-007	Y0507023.D	05/07/2008	17:34
05	MW-17-5	JPL104-001	Y0507026.D	05/07/2008	18:48
06	MW-17-4	JPL104-002	Y0507027.D	05/07/2008	19:13
07	MW-17-3	JPL104-003	Y0507028.D	05/07/2008	19:38
08	MW-17-2	JPL104-004	Y0507029.D	05/07/2008	20:02
09	MW-17-1	JPL104-005	Y0507030.D	05/07/2008	20:27
10	EB-07-5/1/08	JPL104-006	Y0507031.D	05/07/2008	20:52
11					
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14					
15					
16					
17					
18					
19					
20					
21					
22					

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitoring
 Run Sequence: R027971 SDG No.: JPL104
 Client Sample No. (VSTD050##): VSTD050Y6 Date Analyzed: 05/07/2008
 Lab File ID (Standard): Y0507018.D Time Analyzed: 15:27
 Instrument ID: 5973Y Heated Purge: (Y/N) N
 GC Column: ZB-624 20m ID: 0.18 (mm)

	IS1 (FBZ) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	593186	8.23	300549	11.68	344208	13.61
UPPER LIMIT	1186372	8.28	601098	11.73	688416	13.66
LOWER LIMIT	296593	8.18	150274.5	11.63	172104	13.56
CLIENT SAMPLE NO.						
01 S050708MVOWY1	582761	8.23	299914	11.68	342454	13.61
02 B050708MVOWY1	582673	8.23	290232	11.68	351278	13.61
03 TB-07-5/1/08	584388	8.23	279159	11.68	326246	13.61
04 MW-17-5	560121	8.23	270578	11.68	318308	13.61
05 MW-17-4	547825	8.23	257644	11.68	306434	13.61
06 MW-17-3	529354	8.23	258081	11.68	314998	13.61
07 MW-17-2	513167	8.23	253931	11.68	313181	13.61
08 MW-17-1	527270	8.23	254332	11.68	309709	13.61
09 EB-07-5/1/08	523642	8.23	255036	11.68	310392	13.61
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (FBZ) = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

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

SAMPLE DATA

SDG # JPL104

Volatiles Analysis

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-5

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-001
 Lab File ID: Y0507026.D
 Date Collected: 05/01/2008
 Date/Time Analyzed: 05/07/2008 18:48
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.32	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.27	J
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-5

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-001
 Lab File ID: Y0507026.D
 Date Collected: 05/01/2008
 Date/Time Analyzed: 05/07/2008 18:48
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-5

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-001
 Lab File ID: Y0507026.D
 Date Collected: 05/01/2008
 Date/Time Analyzed: 05/07/2008 18:48
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

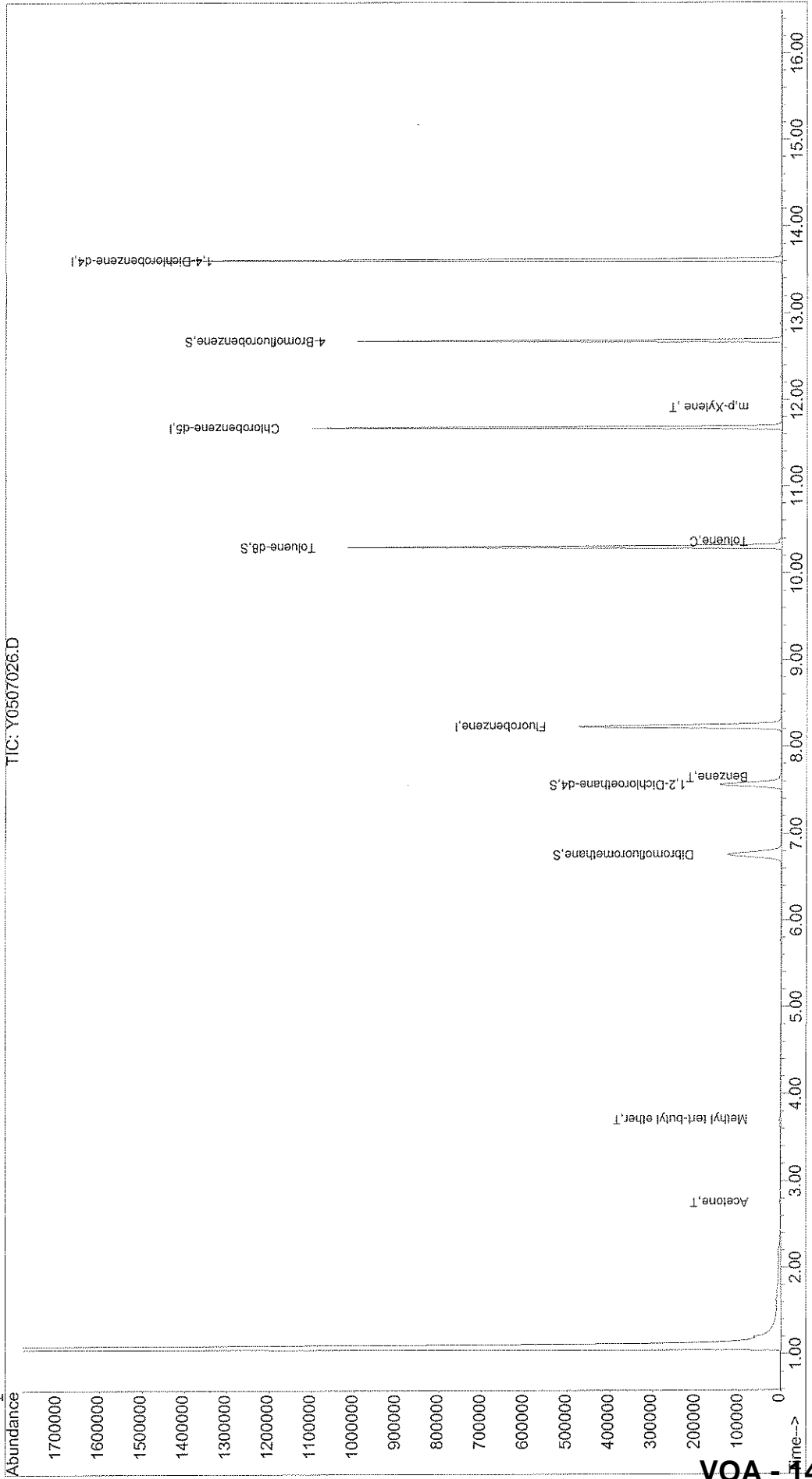
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507026.D
Acq On : 7 May 2008 18:48
Sample : JPL104-001
Misc : #2 5mL+IS/SS(524)
MS Integration Params: rteint.p
Quant Time: May 9 10:00 2008
Vial: 9
Operator: DGA
Inst : Yoda
Multiplr: 1.00
Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507026.D
 Acq On : 7 May 2008 18:48
 Sample : JPL104-001
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 10:00 2008

Vial: 9
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\050608\Y0506014.D (6 May 2008 12:59)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
						Rcv(Ar)
1) Fluorobenzene	8.23	96	560121	50.00	ug/l	0.00 109.69%
54) Chlorobenzene-d5	11.68	82	270578	50.00	ug/l	0.00 110.62%
74) 1,4-Dichlorobenzene-d4	13.61	152	318308	50.00	ug/l	0.00 90.83%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	168388	45.96	ug/l	0.00
Spiked Amount	50.000	Range	85 - 115	Recovery	=	91.92%
40) 1,2-Dichloroethane-d4	7.56	65	171426	48.98	ug/l	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.96%
55) Toluene-d8	10.30	98	588977	50.27	ug/l	0.00
Spiked Amount	50.000	Range	85 - 120	Recovery	=	100.54%
76) 4-Bromofluorobenzene	12.68	95	239067	57.77	ug/l	0.00
Spiked Amount	50.000	Range	75 - 120	Recovery	=	115.54%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	744	N.D.		
4) Vinyl Chloride	1.47	62	409	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	2.70	96	74	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.75	43	2097	1.57 ug/l	#	63
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.91	76	1987	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.28	84	55	Below Cal	#	1
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.	d	
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	3.71	73	4079	0.32 ug/l	#	84

(#) = qualifier out of range (m) = manual integration
 Y0507026.D Y8260W.M Fri May 09 10:00:21 2008

JF 5/09/08
 VOA-15 Page 1

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507026.D
 Acq On : 7 May 2008 18:48
 Sample : JPL104-001
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 10:00 2008

Vial: 9
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0	N.D.		
24) Vinyl acetate	4.53	43	54	N.D.		
25) Chloroprene	0.00	53	0	N.D.		
26) Isopropyl ether	0.00	45	0	N.D.		
27) Ethyl-t-butyl ether	0.00	59	0	N.D.		
28) 2,2-Dichloropropane	0.00	77	0	N.D.		
29) cis-1,2-Dichloroethene	0.00	96	0	N.D.		
30) 2-Butanone	0.00	43	0	N.D.		
31) Propionitrile	0.00	54	0	N.D.		
32) Bromochloromethane	0.00	128	0	N.D.		
33) Methacrylonitrile	0.00	41	0	N.D.		
34) Chloroform	0.00	83	0	N.D.		
35) 1,1,1-Trichloroethane	6.75	97	53	N.D.		
37) Cyclohexane	6.78	56	53	N.D.		
38) Carbon Tetrachloride	0.00	117	0	N.D.		
39) 1,1-Dichloropropene	0.00	75	0	N.D.		
41) Benzene	7.65	78	4550	0.27	ug/l	100
42) 1,2-Dichloroethane	0.00	62	0	N.D.		
43) Isobutanol	0.00	43	0	N.D.	d	
44) t-amyl methyl ether	0.00	73	0	N.D.		
45) Trichloroethene	8.82	130	201	N.D.		
46) Methylcyclohexane	9.06	83	166	N.D.		
47) 1,2-Dichloropropane	0.00	63	0	N.D.		
48) Dibromomethane	0.00	93	0	N.D.		
49) Methyl methacrylate	0.00	41	0	N.D.		
50) Bromodichloromethane	0.00	83	0	N.D.		
51) 2-Chloroethyl vinyl ether	0.00	63	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	43	0	N.D.	d	
56) Toluene	10.37	92	1669	0.19	ug/l	84
57) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
58) Ethyl methacrylate	0.00	69	0	N.D.		
59) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
60) Tetrachloroethene	10.92	166	74	N.D.		
61) 1,3-Dichloropropane	0.00	76	0	N.D.		
62) 2-Hexanone	11.01	43	232	N.D.		
63) Dibromochloromethane	10.91	129	173	N.D.		
64) 1,2-Dibromoethane	0.00	107	0	N.D.		
65) Chlorobenzene	11.69	112	349	N.D.		
66) 1-Chlorohexane	0.00	91	0	N.D.	d	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

100
 d
 d
 1/2 PRV
 84
 5/20/08

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507026.D
 Acq On : 7 May 2008 18:48
 Sample : JPL104-001
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 10:00 2008

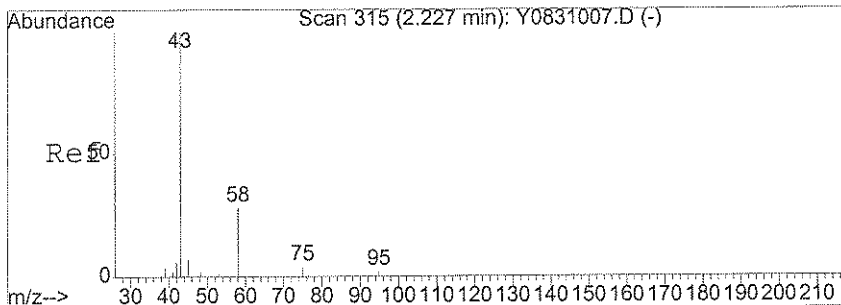
Vial: 9
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

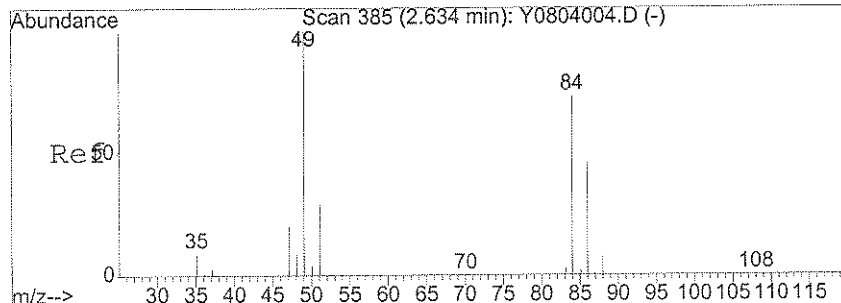
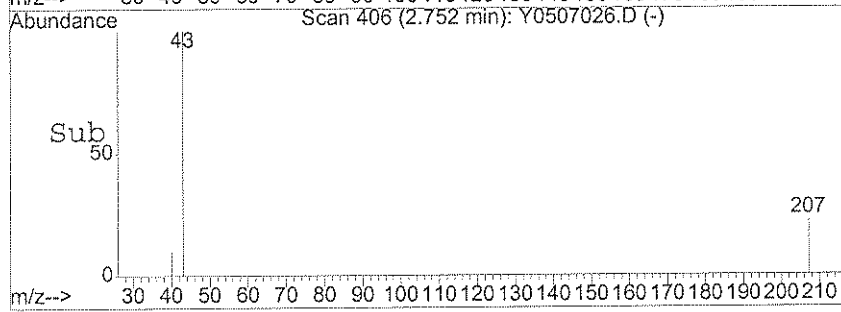
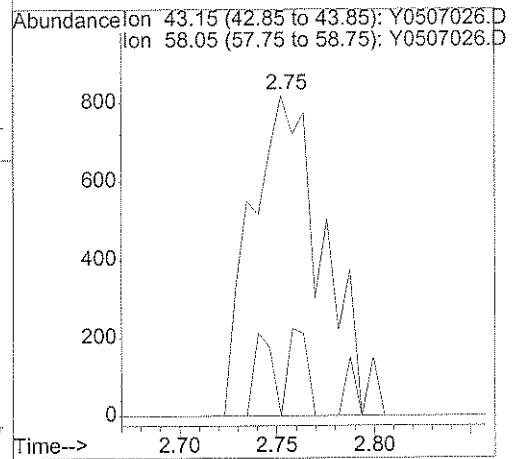
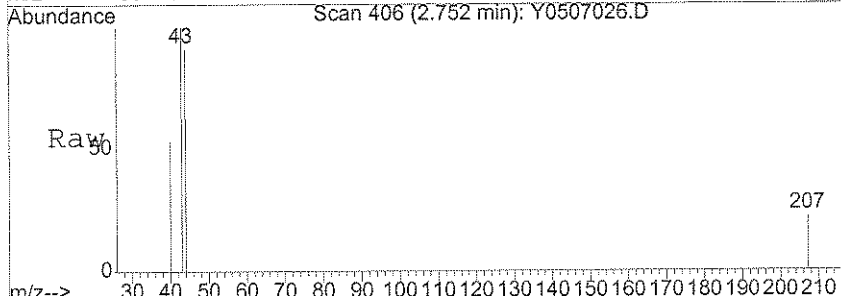
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
68) Ethylbenzene	11.92	91	1950	N.D.	
69) m,p-Xylene	11.91	106	970	0.15 ug/l	87
70) o-xylene	12.24	106	282	N.D.	
71) Styrene	0.00	104	0	N.D. d	
72) Bromoform	0.00	173	0	N.D.	
73) Isopropylbenzene	12.56	105	496	N.D.	
75) trans-1,4-Dichloro-2-buten	12.55	53	55	N.D.	
77) Bromobenzene	12.68	156	71	N.D.	
78) 1,1,2,2-Tetrachloroethane	12.68	83	69	N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0	N.D. d	
80) n-Propylbenzene	12.89	120	187	N.D.	
81) 2-Chlorotoluene	12.96	91	133	N.D.	
82) 4-Chlorotoluene	13.04	91	548	N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0	N.D. d	
84) tert-Butylbenzene	0.00	119	0	N.D. d	
85) 1,2,4-Trimethylbenzene	0.00	105	0	N.D. d	
86) sec-butylbenzene	0.00	105	0	N.D. d	
87) 1,3-Dichlorobenzene	13.56	146	306	N.D.	
88) 4-Isopropyltoluene	13.59	119	924	N.D.	
89) 1,4-Dichlorobenzene	13.56	146	306	N.D.	
90) 1,2-Dichlorobenzene	13.63	146	577	N.D.	
91) n-Butylbenzene	13.91	91	1222	N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0	N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	593	N.D.	
94) Hexachlorobutadiene	0.00	225	0	N.D. d	
95) Naphthalene	15.36	128	370	N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	477	N.D.	

Handwritten notes:
 ✓ 87
 1/2 PAL
 QM 5/20/08



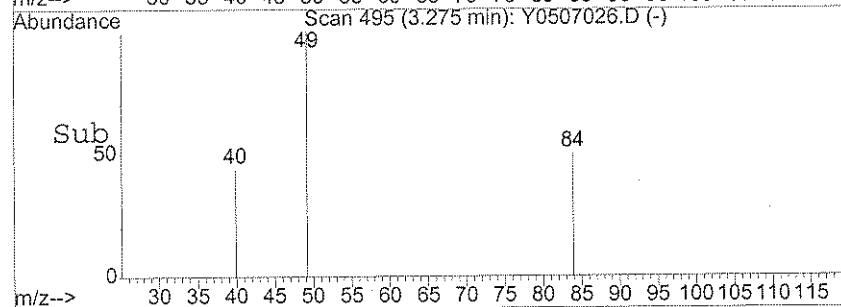
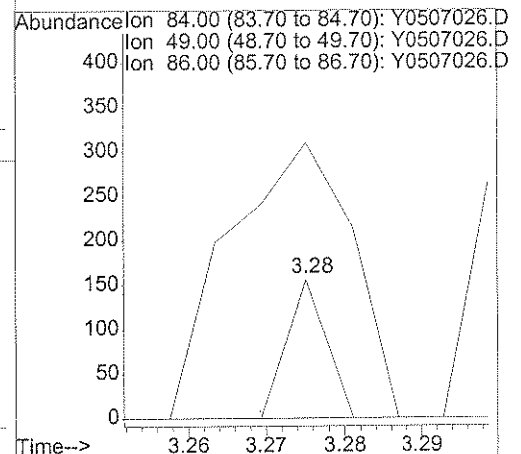
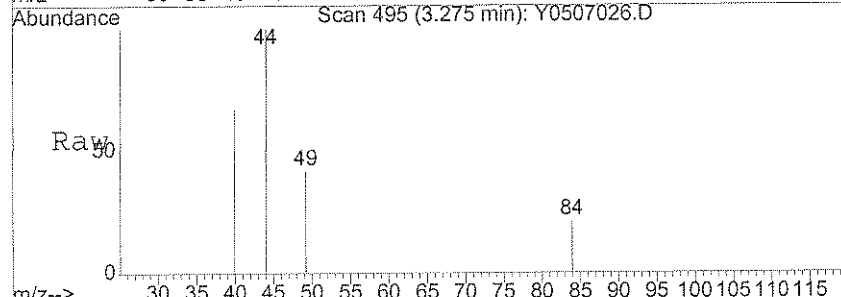
#11
 Acetone
 Concen: 1.57 ug/l
 RT: 2.75 min Scan# 406
 Delta R.T. 0.02 min
 Lab File: Y0507026.D
 Acq: 7 May 2008 18:48

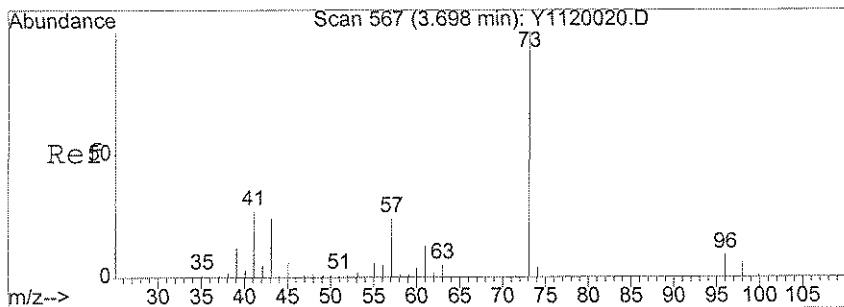
Tgt Ion	Resp	Lower	Upper
43	2097		
58	7.3	21.3	31.9#



#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.28 min Scan# 495
 Delta R.T. 0.01 min
 Lab File: Y0507026.D
 Acq: 7 May 2008 18:48

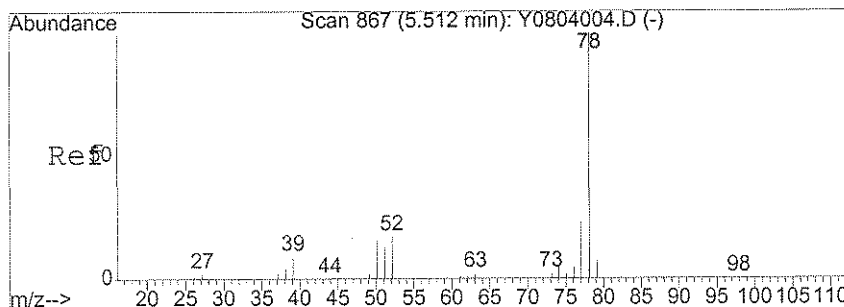
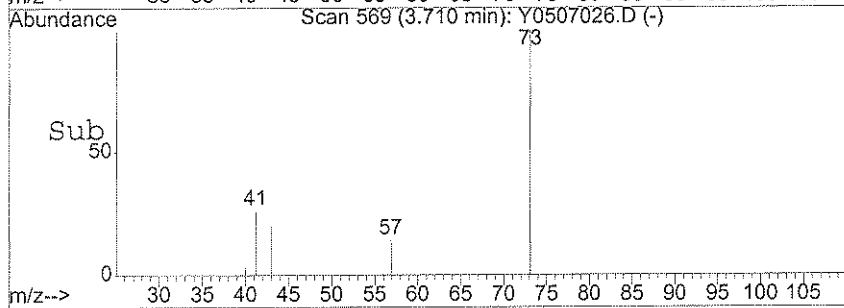
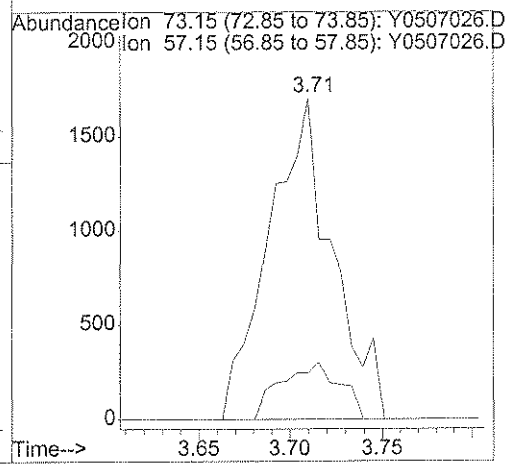
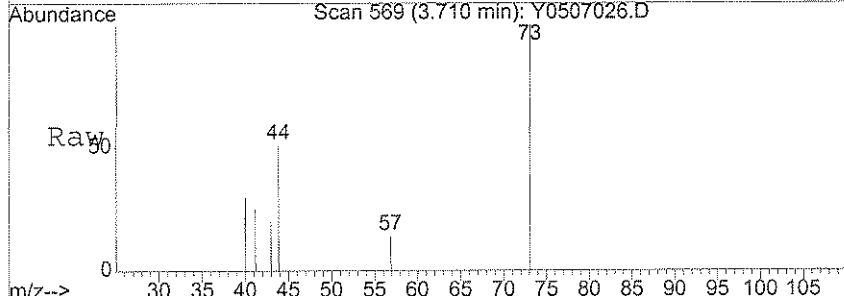
Tgt Ion	Resp	Lower	Upper
84	55		
49	616.4	112.5	152.5#
86	0.0	39.5	79.5#





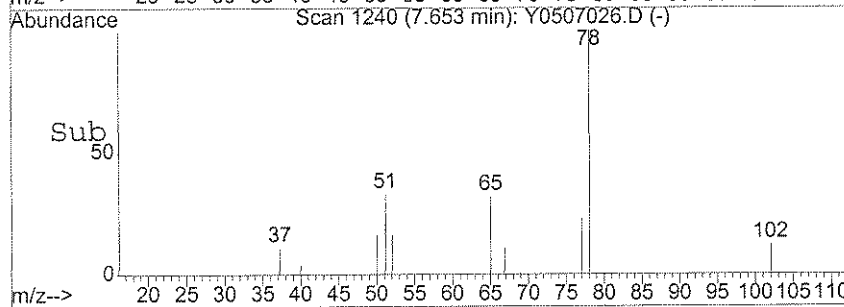
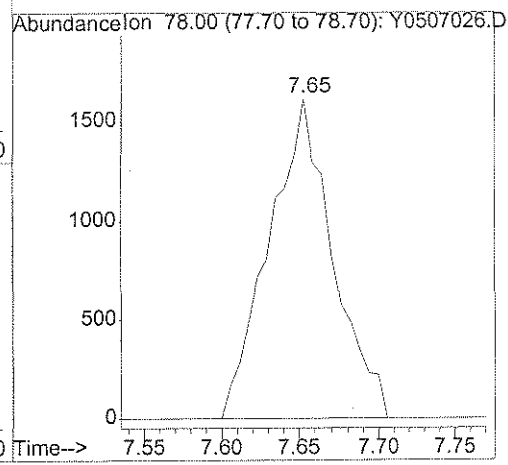
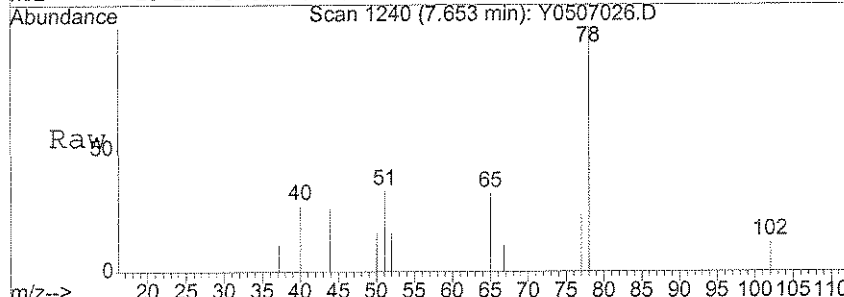
#22
 Methyl tert-butyl ether
 Concen: 0.32 ug/l
 RT: 3.71 min Scan# 569
 Delta R.T. 0.01 min
 Lab File: Y0507026.D
 Acq: 7 May 2008 18:48

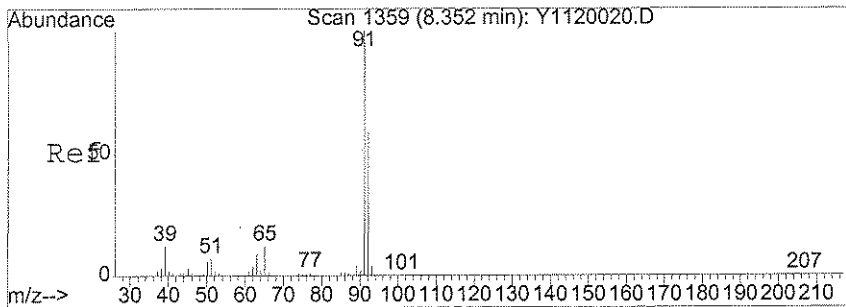
Tgt Ion: 73 Resp: 4079
 Ion Ratio Lower Upper
 73 100
 57 16.2 19.2 28.8#



#41
 Benzene
 Concen: 0.27 ug/l
 RT: 7.65 min Scan# 1240
 Delta R.T. 0.01 min
 Lab File: Y0507026.D
 Acq: 7 May 2008 18:48

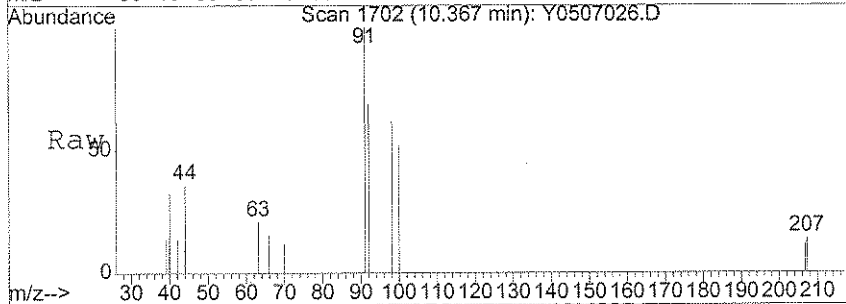
Tgt Ion: 78 Resp: 4550



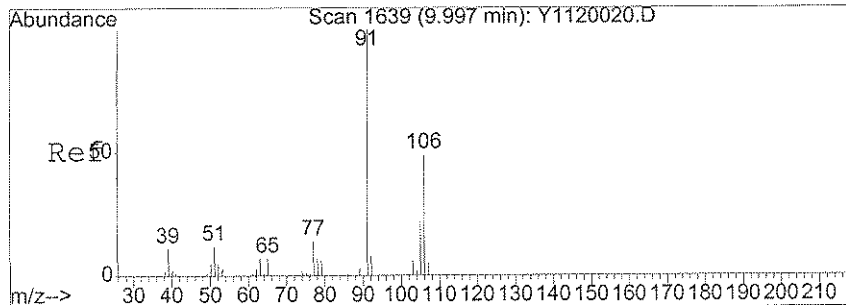
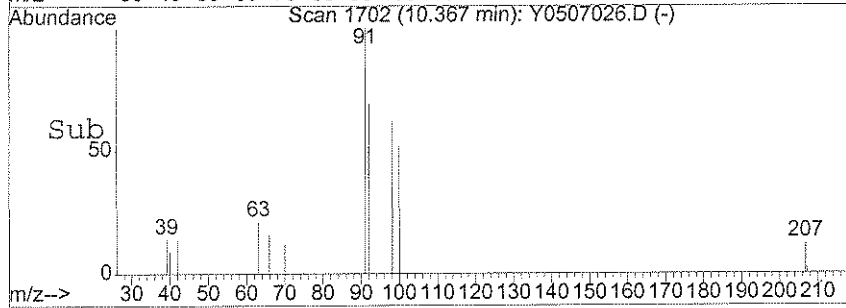
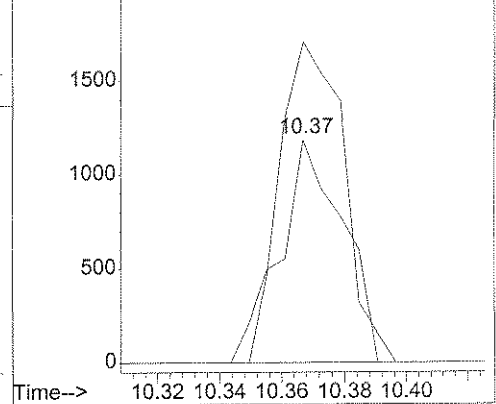


#56
Toluene
Concen: 0.19 ug/l
RT: 10.37 min Scan# 1702
Delta R.T. 0.00 min
Lab File: Y0507026.D
Acq: 7 May 2008 18:48

Tgt Ion: 92 Resp: 1669
Ion Ratio Lower Upper
92 100
91 145.5 133.7 200.5

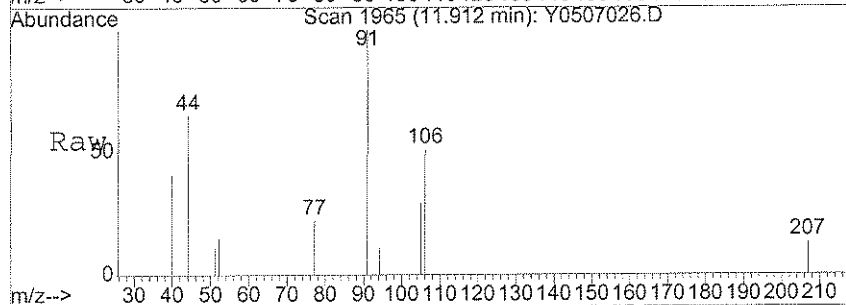


Abundance Ion 92.05 (91.75 to 92.75): Y0507026.D
2000 Ion 91.05 (90.75 to 91.75): Y0507026.D

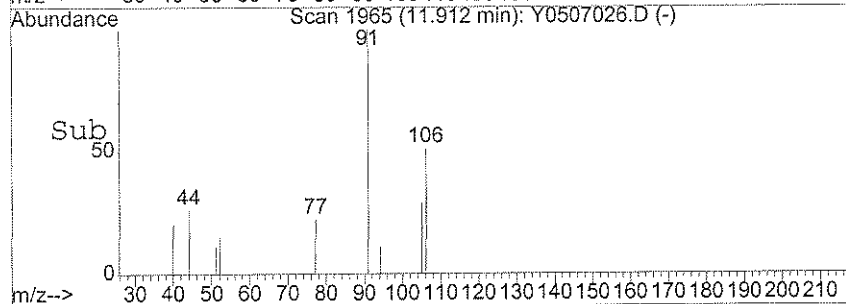
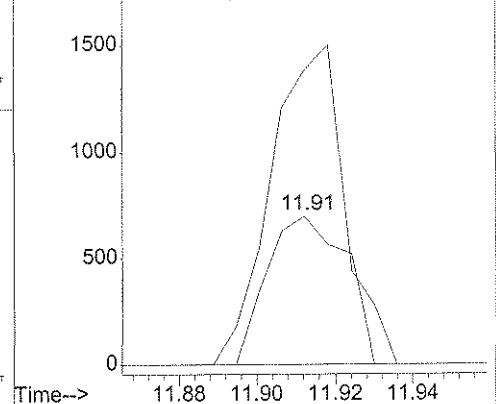


#69
m,p-Xylene
Concen: 0.15 ug/l
RT: 11.91 min Scan# 1965
Delta R.T. 0.00 min
Lab File: Y0507026.D
Acq: 7 May 2008 18:48

Tgt Ion: 106 Resp: 970
Ion Ratio Lower Upper
106 100
91 201.0 161.8 201.8



Abundance Ion 106.00 (105.70 to 106.70): Y0507026.D
2000 Ion 91.00 (90.70 to 91.70): Y0507026.D



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-4

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-002
 Lab File ID: Y0507027.D
 Date Collected: 05/01/2008
 Date/Time Analyzed: 05/07/2008 19:13
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.65	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-4

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-002
 Lab File ID: Y0507027.D
 Date Collected: 05/01/2008
 Date/Time Analyzed: 05/07/2008 19:13
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-4

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-002
 Lab File ID: Y0507027.D
 Date Collected: 05/01/2008
 Date/Time Analyzed: 05/07/2008 19:13
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

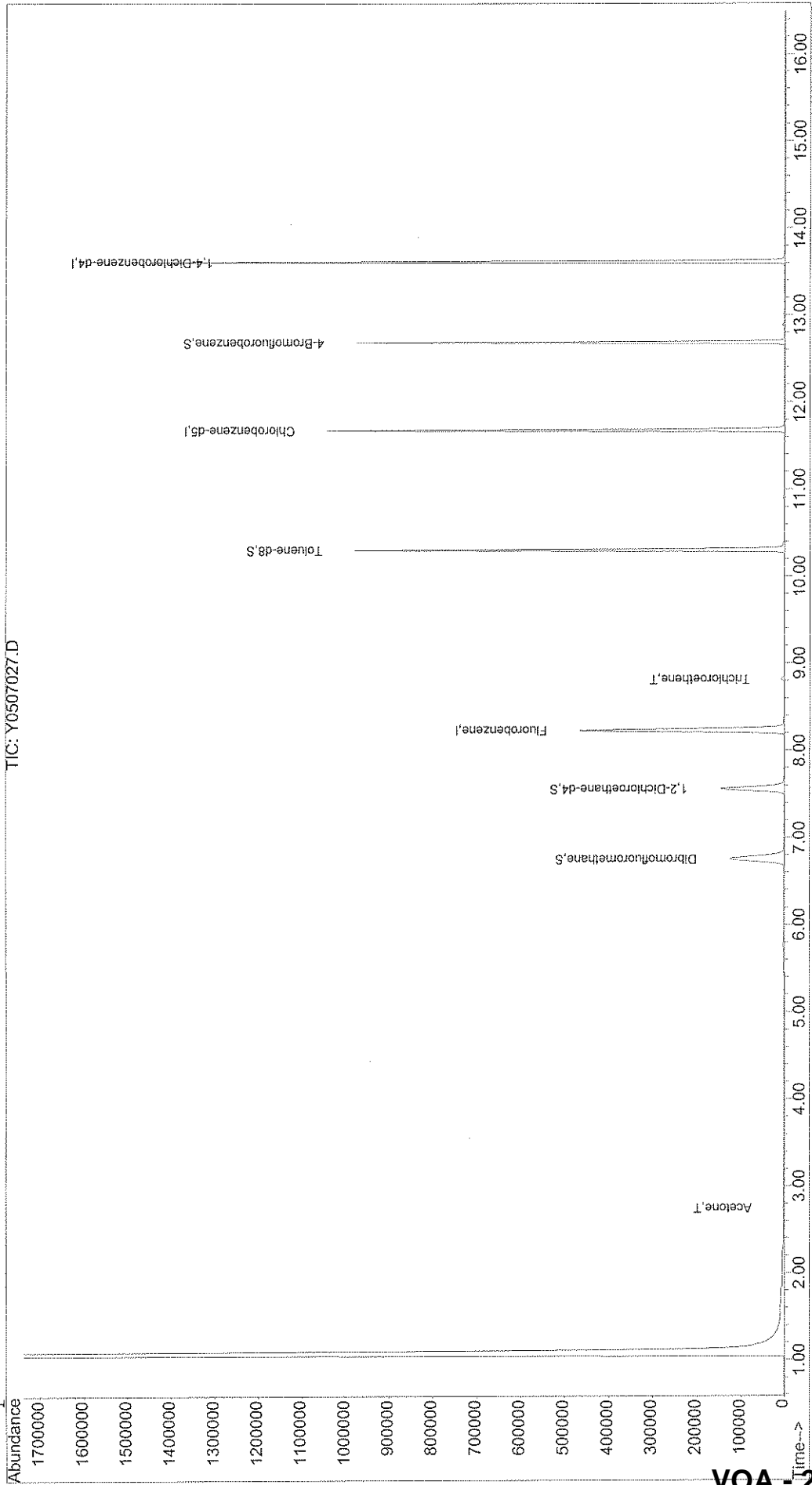
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507027.D Vial: 10
Acq On : 7 May 2008 19:13 Operator: DGA
Sample : JPL104-002 Inst : Yoda
Misc : #4 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 9 10:43 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507027.D
 Acq On : 7 May 2008 19:13
 Sample : JPL104-002
 Misc : #4 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 10:43 2008

Vial: 10
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\050608\Y0506014.D (6 May 2008 12:59)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	547825	50.00	ug/l	0.00 107.28%
54) Chlorobenzene-d5	11.68	82	257644	50.00	ug/l	0.00 105.33%
74) 1,4-Dichlorobenzene-d4	13.61	152	306434	50.00	ug/l	0.00 87.44%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	166614	46.49	ug/l	0.00
Spiked Amount	50.000	Range	85 - 115	Recovery	=	92.98%
40) 1,2-Dichloroethane-d4	7.56	65	174711	51.04	ug/l	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.08%
55) Toluene-d8	10.30	98	571620	51.24	ug/l	0.00
Spiked Amount	50.000	Range	85 - 120	Recovery	=	102.48%
76) 4-Bromofluorobenzene	12.68	95	231054	58.00	ug/l	0.00
Spiked Amount	50.000	Range	75 - 120	Recovery	=	116.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	152	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	2.65	96	55	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	2.70	101	71	N.D.		
11) Acetone	2.75	43	1536	1.18	ug/l #	62
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.90	76	918	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.26	84	215	Below Cal	#	78
19) trans-1,2-Dichloroethene	3.65	96	56	N.D.		
20) Acrylonitrile	3.66	53	122	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	3.69	73	53	N.D.		

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

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507027.D
 Acq On : 7 May 2008 19:13
 Sample : JPL104-002
 Misc : #4 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 10:43 2008

Vial: 10
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	4.53	43	102		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	5.45	96	78		N.D.	
30) 2-Butanone	0.00	43	0		N.D.	
31) Propionitrile	5.71	54	57		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.34	83	721		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.66	78	127		N.D.	
42) 1,2-Dichloroethane	7.54	62	59		N.D.	
43) Isobutanol	0.00	43	0		N.D. d	
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	8.82	130	2841	0.65	ug/l #	86
46) Methylcyclohexane	9.05	83	295		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	9.58	41	57		N.D.	
50) Bromodichloromethane	9.29	83	60		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	10.26	43	155		N.D.	
56) Toluene	10.36	92	77		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.98	97	63		N.D.	
60) Tetrachloroethene	10.91	166	244		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	0.00	43	0		N.D.	
63) Dibromochloromethane	10.91	129	72		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.71	112	77		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D. d	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0507027.D Y8260W.M Fri May 09 10:43:23 2008

J. Stahly
 Page 2
VOA - 26

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507027.D
 Acq On : 7 May 2008 19:13
 Sample : JPL104-002
 Misc : #4 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 10:43 2008

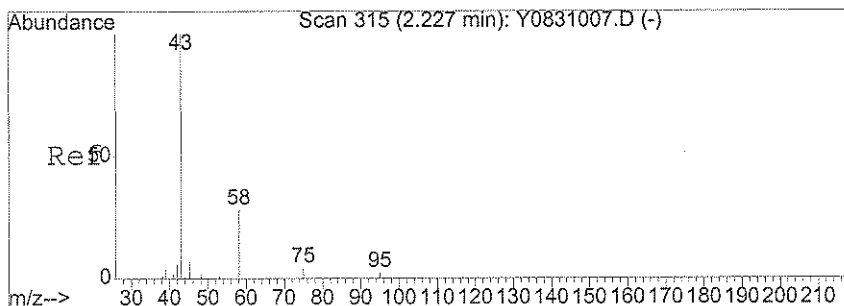
Vial: 10
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

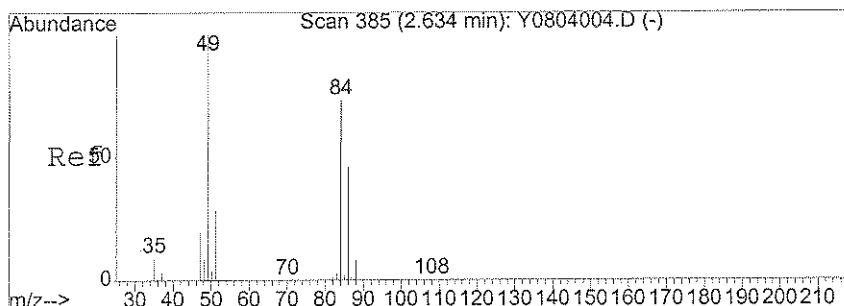
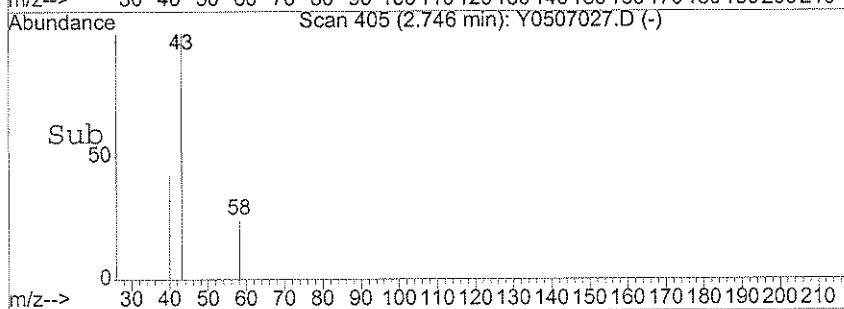
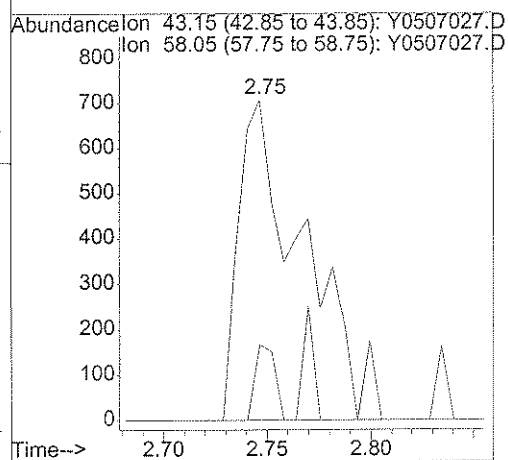
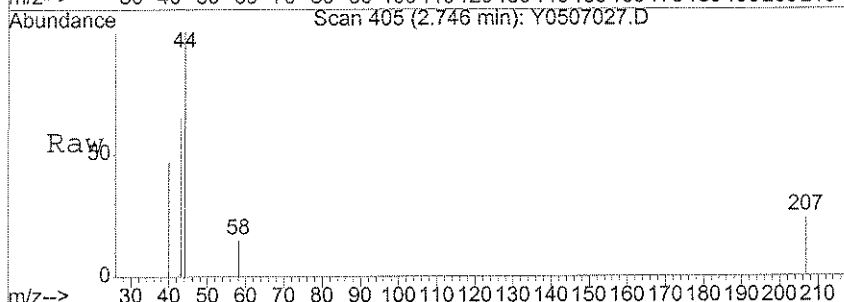
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	311		N.D.	
69) m,p-Xylene	11.92	106	351		N.D.	
70) o-xylene	12.09	106	54		N.D.	
71) Styrene	12.26	104	612		N.D.	
72) Bromoform	12.70	173	53		N.D.	
73) Isopropylbenzene	12.56	105	210		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	133		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.68	83	53		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	12.89	120	221		N.D.	
81) 2-Chlorotoluene	12.96	91	284		N.D.	
82) 4-Chlorotoluene	13.05	91	278		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.55	146	270		N.D.	
88) 4-Isopropyltoluene	13.59	119	712		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	406		N.D.	
90) 1,2-Dichlorobenzene	13.92	146	171		N.D.	
91) n-Butylbenzene	13.92	91	1080		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.27	75	61		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	733		N.D.	
94) Hexachlorobutadiene	15.30	225	248		N.D.	
95) Naphthalene	15.37	128	542		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	383		N.D.	

Quant 5/20/08



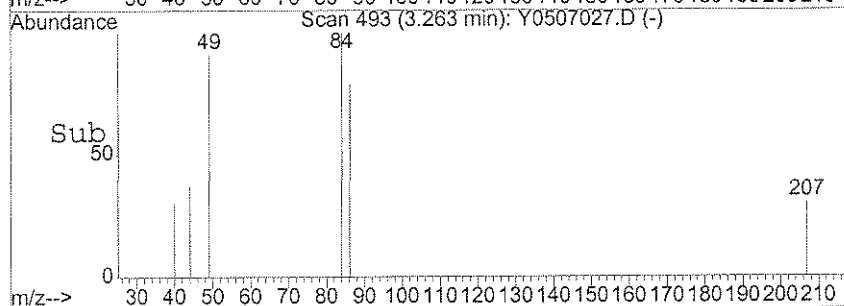
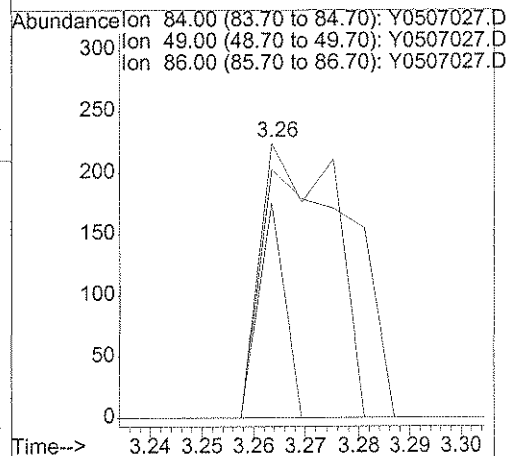
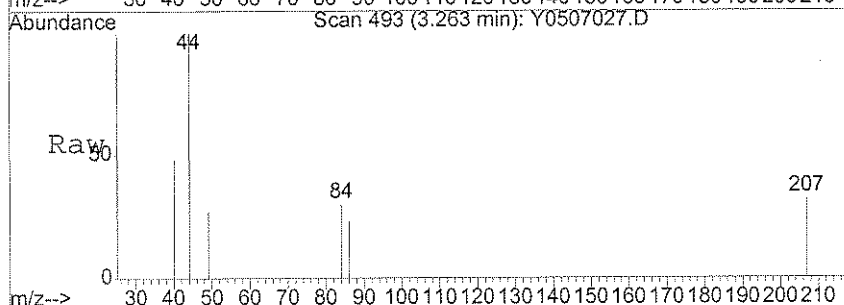
#11
 Acetone
 Concen: 1.18 ug/l
 RT: 2.75 min Scan# 405
 Delta R.T. 0.01 min
 Lab File: Y0507027.D
 Acq: 7 May 2008 19:13

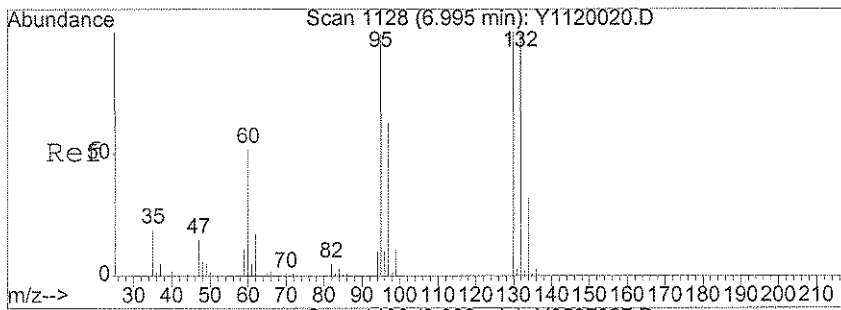
Tgt Ion: 43 Resp: 1536
 Ion Ratio Lower Upper
 43 100
 58 7.3 21.3 31.9#



#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.26 min Scan# 493
 Delta R.T. -0.01 min
 Lab File: Y0507027.D
 Acq: 7 May 2008 19:13

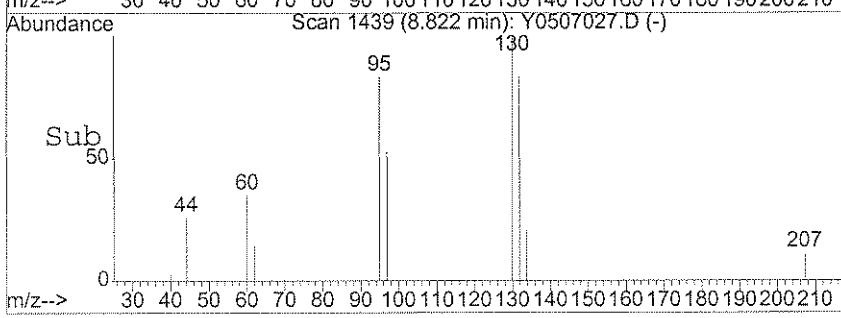
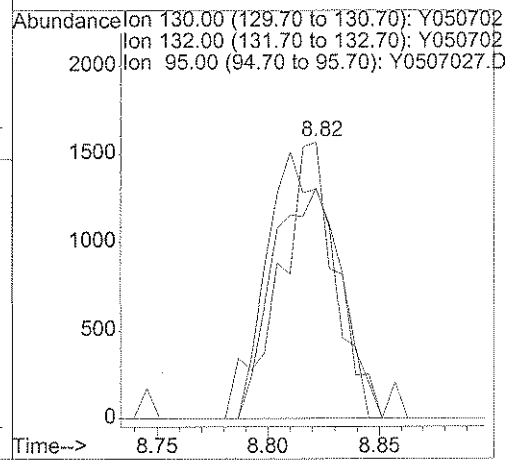
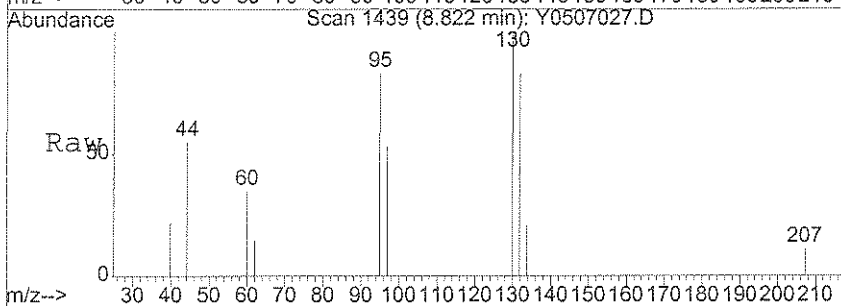
Tgt Ion: 84 Resp: 215
 Ion Ratio Lower Upper
 84 100
 49 116.3 112.5 152.5
 86 28.8 39.5 79.5#





#45
 Trichloroethene
 Concen: 0.65 ug/l
 RT: 8.82 min Scan# 1439
 Delta R.T. 0.01 min
 Lab File: Y0507027.D
 Acq: 7 May 2008 19:13

Tgt Ion	Resp	Lower	Upper
130	2841		
130	100		
132	93.1	75.0	115.0
95	114.3	69.4	109.4#



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-3

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-003
 Lab File ID: Y0507028.D
 Date Collected: 05/01/2008
 Date/Time Analyzed: 05/07/2008 19:38
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.48	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.40	J
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.67	
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.59	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-3

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-003
 Lab File ID: Y0507028.D
 Date Collected: 05/01/2008
 Date/Time Analyzed: 05/07/2008 19:38
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.29	J
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,1,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-3

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-003
 Lab File ID: Y0507028.D
 Date Collected: 05/01/2008
 Date/Time Analyzed: 05/07/2008 19:38
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

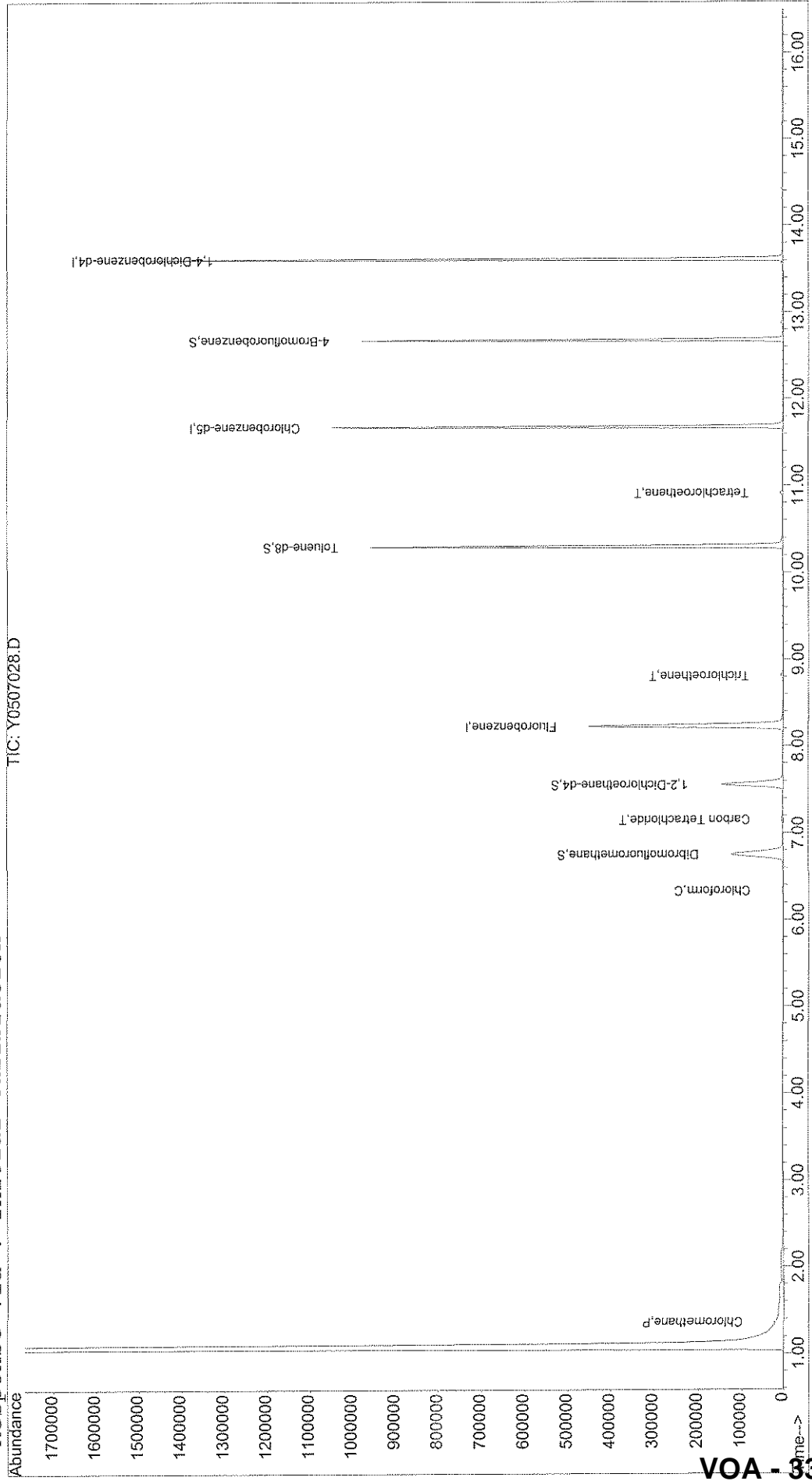
Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507028.D
Acq On : 7 May 2008 19:38
Sample : JPL104-003
Misc : #4 5mL+IS/SS(524)
MS Integration Params: rteint.p
Quant Time: May 9 10:44 2008
Quant Results File: Y8260W.RES

Vial: 11
Operator: DGA
Inst : yoda
Multiplr: 1.00

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260 - 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



VOA - 33

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507028.D
 Acq On : 7 May 2008 19:38
 Sample : JPL104-003
 Misc : #4 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 10:44 2008

Vial: 11
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\050608\Y0506014.D (6 May 2008 12:59)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	529354	50.00	ug/l	0.00 103.67%
54) Chlorobenzene-d5	11.68	82	258081	50.00	ug/l	0.00 105.51%
74) 1,4-Dichlorobenzene-d4	13.61	152	314998	50.00	ug/l	0.00 89.88%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	161159	46.54	ug/l	0.00
Spiked Amount	50.000	Range	85 - 115	Recovery	=	93.08%
40) 1,2-Dichloroethane-d4	7.56	65	169094	51.13	ug/l	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.26%
55) Toluene-d8	10.30	98	570460	51.05	ug/l	0.00
Spiked Amount	50.000	Range	85 - 120	Recovery	=	102.10%
76) 4-Bromofluorobenzene	12.68	95	236608	57.78	ug/l	0.00
Spiked Amount	50.000	Range	75 - 120	Recovery	=	115.56%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	3072	0.48	ug/l	98
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	2.69	101	65	N.D.		
11) Acetone	0.00	43	0	N.D.	d	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.91	76	596	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	3.62	96	58	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	3.69	73	56	N.D.		

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

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507028.D
 Acq On : 7 May 2008 19:38
 Sample : JPL104-003
 Misc : #4 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 10:44 2008

Vial: 11
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
23) 1,1-Dichloroethane	4.33	63	285	N.D.	
24) Vinyl acetate	0.00	43	0	N.D.	
25) Chloroprene	0.00	53	0	N.D.	
26) Isopropyl ether	0.00	45	0	N.D.	
27) Ethyl-t-butyl ether	0.00	59	0	N.D.	
28) 2,2-Dichloropropane	0.00	77	0	N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0	N.D.	
30) 2-Butanone	5.65	43	66	N.D.	
31) Propionitrile	0.00	54	0	N.D.	
32) Bromochloromethane	0.00	128	0	N.D.	
33) Methacrylonitrile	0.00	41	0	N.D.	
34) Chloroform	6.34	83	3221mS	0.40 ug/l	51
35) 1,1,1-Trichloroethane	0.00	97	0	N.D.	
37) Cyclohexane	0.00	56	0	N.D.	
38) Carbon Tetrachloride	7.15	117	3789	0.67 ug/l #	76
39) 1,1-Dichloropropene	7.08	75	57	N.D.	
41) Benzene	7.65	78	277	N.D.	
42) 1,2-Dichloroethane	0.00	62	0	N.D.	
43) Isobutanol	0.00	43	0	N.D. d	
44) t-amyl methyl ether	0.00	73	0	N.D.	
45) Trichloroethene	8.81	130	2525	0.59 ug/l	90
46) Methylcyclohexane	9.06	83	167	N.D.	
47) 1,2-Dichloropropane	0.00	63	0	N.D.	
48) Dibromomethane	0.00	93	0	N.D.	
49) Methyl methacrylate	0.00	41	0	N.D.	
50) Bromodichloromethane	9.50	83	211	N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0	N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0	N.D. d	
56) Toluene	10.37	92	330	N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0	N.D.	
58) Ethyl methacrylate	0.00	69	0	N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0	N.D.	
60) Tetrachloroethene	10.91	166	1241	0.29 ug/l #	89
61) 1,3-Dichloropropane	11.00	76	54	N.D.	
62) 2-Hexanone	11.15	43	71	N.D.	
63) Dibromochloromethane	0.00	129	0	N.D. d	
64) 1,2-Dibromoethane	0.00	107	0	N.D.	
65) Chlorobenzene	11.70	112	68	N.D.	
66) 1-Chlorohexane	11.71	91	233	N.D.	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.	

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

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507028.D
 Acq On : 7 May 2008 19:38
 Sample : JPL104-003
 Misc : #4 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 10:44 2008

Vial: 11
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	355		N.D.	
69) m,p-Xylene	11.91	106	318		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	12.52	104	62		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.56	105	219		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	192		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.69	83	84		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	13.04	120	80		N.D.	
81) 2-Chlorotoluene	13.05	91	310		N.D.	
82) 4-Chlorotoluene	13.05	91	310		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	867		N.D.	
88) 4-Isopropyltoluene	13.59	119	1024		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	900		N.D.	
90) 1,2-Dichlorobenzene	13.92	146	937		N.D.	
91) n-Butylbenzene	13.91	91	763		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.32	75	66		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	592		N.D.	
94) Hexachlorobutadiene	15.30	225	386		N.D.	
95) Naphthalene	15.37	128	401		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	690		N.D.	

Q 11/5/2008

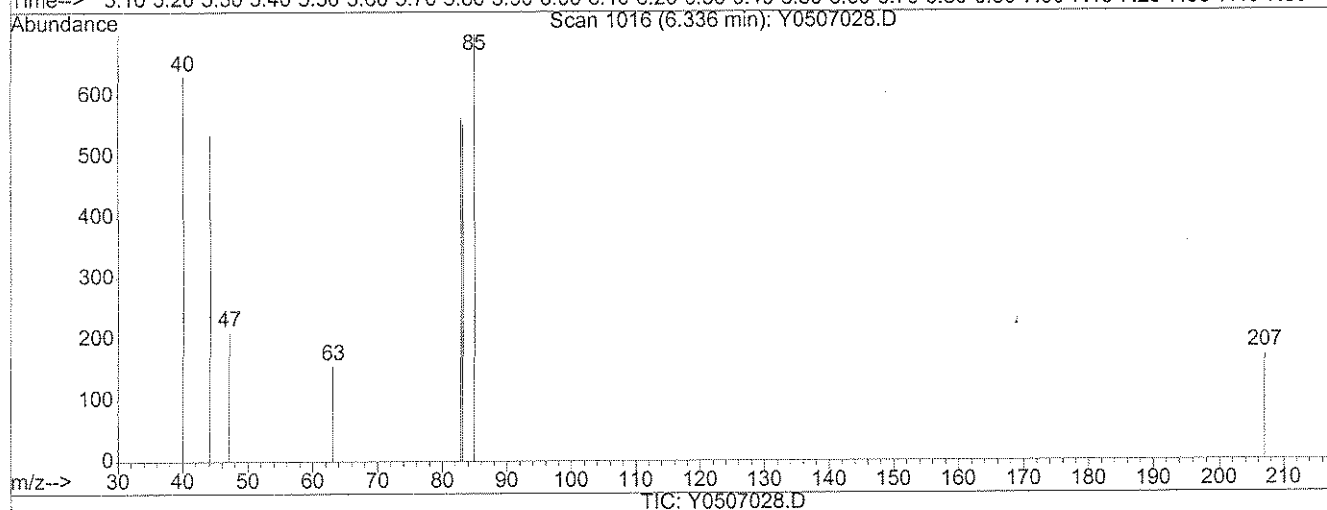
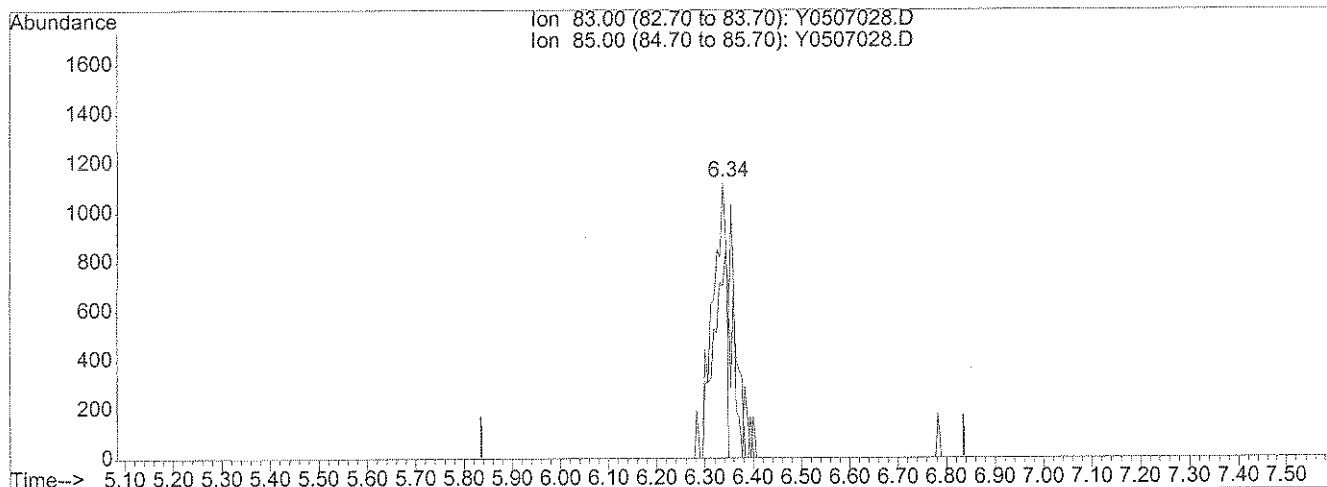
Quantitation Report (Qedit)

Data File : X:\MSVOA\YODA\050708\Y0507028.D
 Acq On : 7 May 2008 19:38
 Sample : JPL104-003
 Misc : #4 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 10:44 2008

Vial: 11
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: temp.res

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Multiple Level Calibration



(34) Chloroform (C)

6.34min 0.27ug/l

response 2186

Ion	Exp%	Act%
83.00	100	100
85.00	63.30	101.05#
0.00	0.00	0.00
0.00	0.00	0.00

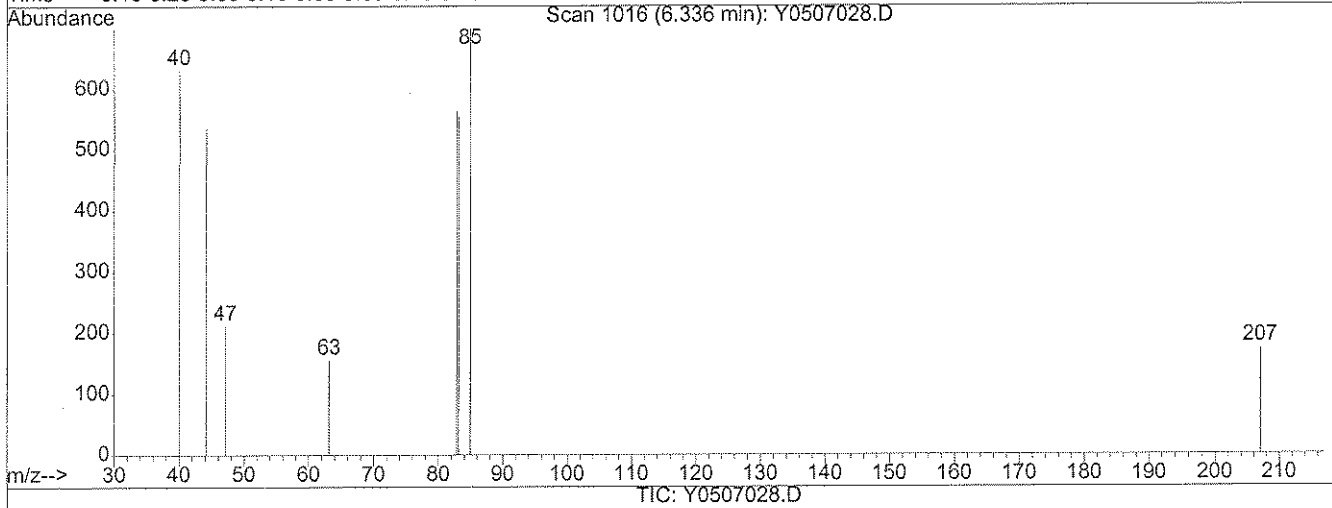
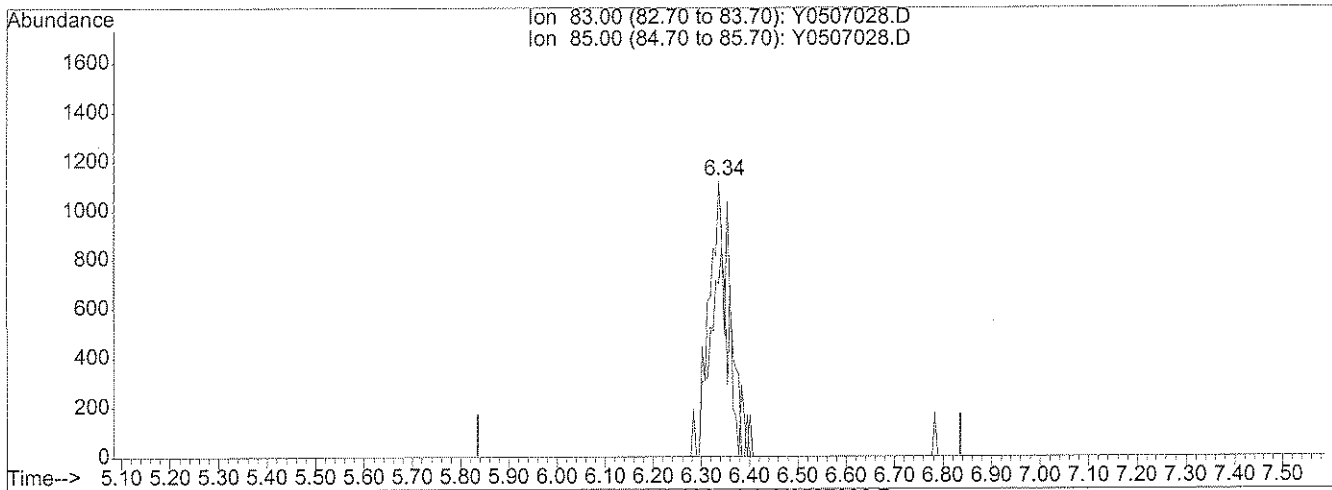
Quantitation Report (Qedit)

Data File : X:\MSVOA\YODA\050708\Y0507028.D
 Acq On : 7 May 2008 19:38
 Sample : JPL104-003
 Misc : #4 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 10:44 2008

Vial: 11
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: temp.res

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Multiple Level Calibration

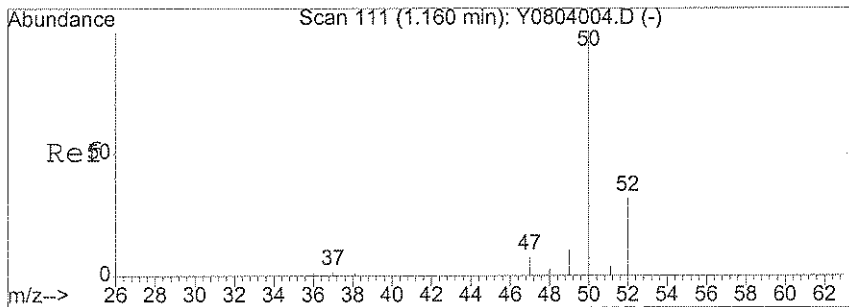


(34) Chloroform (C)

6.34min 0.40ug/l m

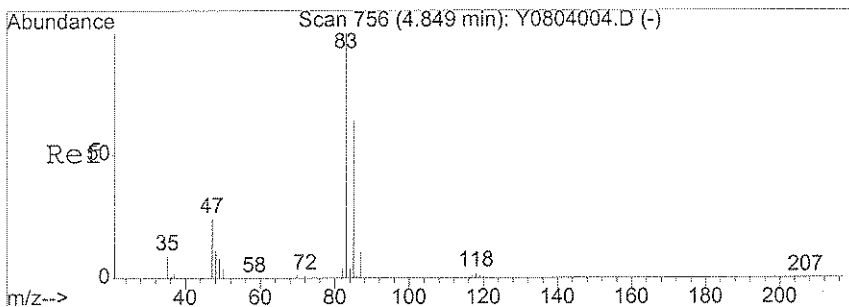
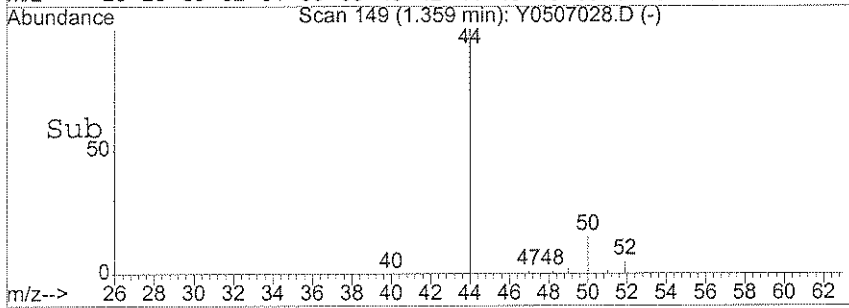
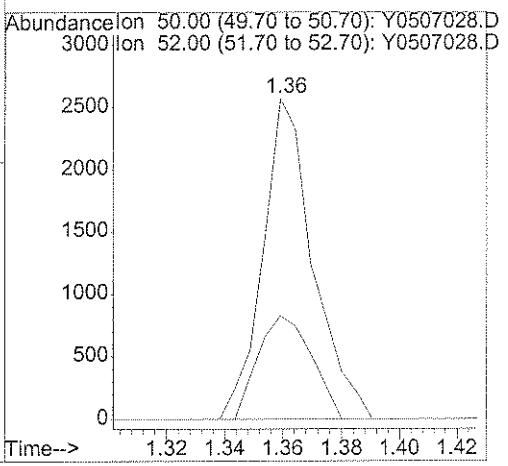
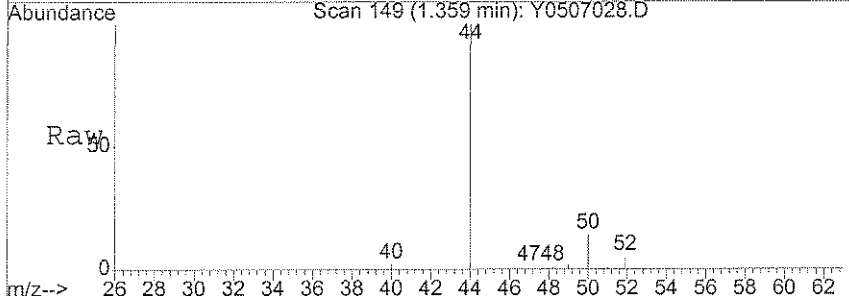
response 3221

Ion	Exp%	Act%
83.00	100	100
85.00	63.30	68.58
0.00	0.00	0.00
0.00	0.00	0.00



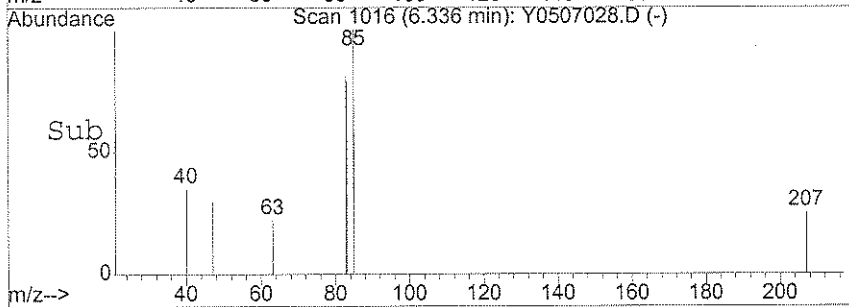
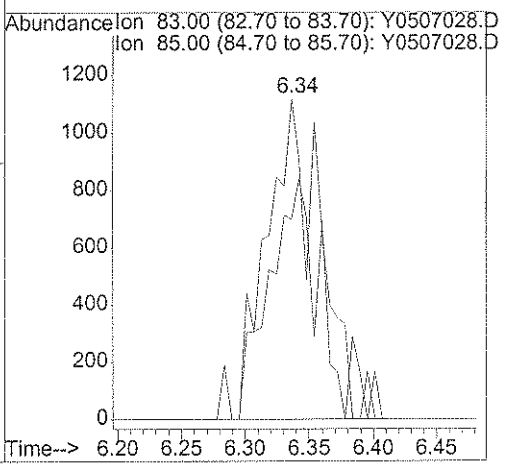
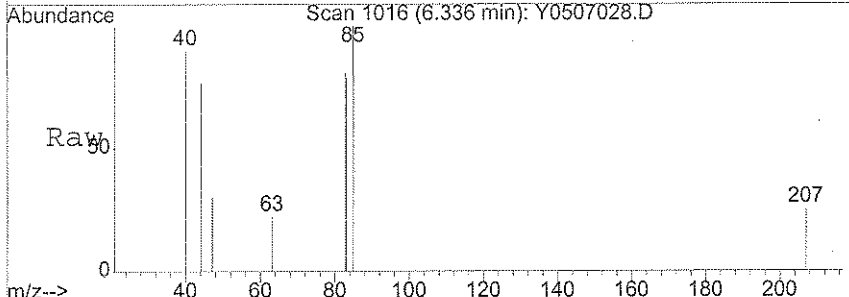
#3
 Chloromethane
 Concen: 0.48 ug/l
 RT: 1.36 min Scan# 149
 Delta R.T. -0.01 min
 Lab File: Y0507028.D
 Acq: 7 May 2008 19:38

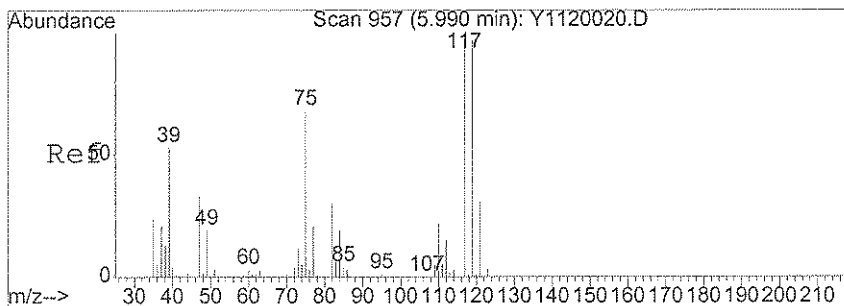
Tgt Ion	Resp	Lower	Upper
50	3072		
52	34.2	13.0	53.0



#34
 Chloroform
 Concen: 0.40 ug/l m
 RT: 6.34 min Scan# 1016
 Delta R.T. 0.00 min
 Lab File: Y0507028.D
 Acq: 7 May 2008 19:38

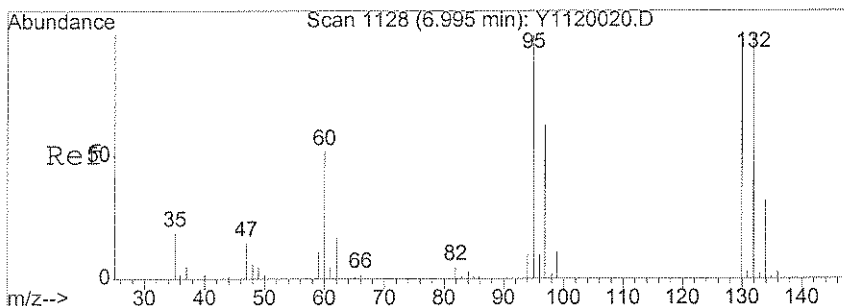
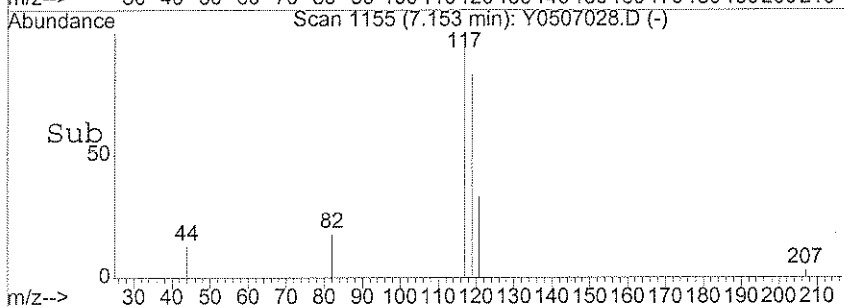
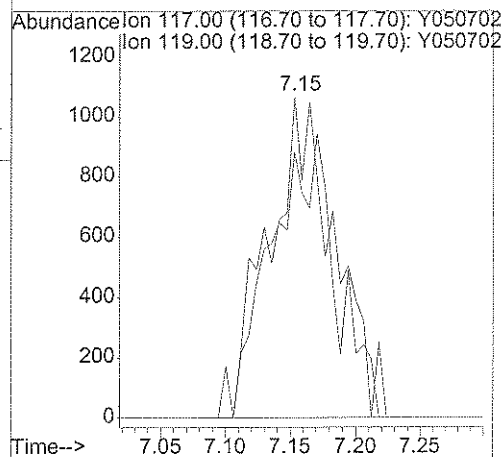
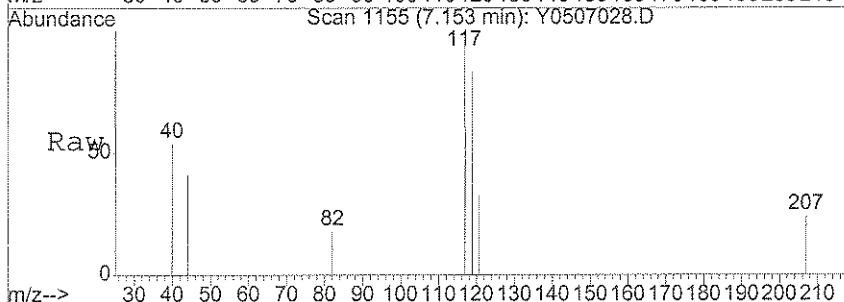
Tgt Ion	Resp	Lower	Upper
83	3221		
85	68.6	43.3	83.3





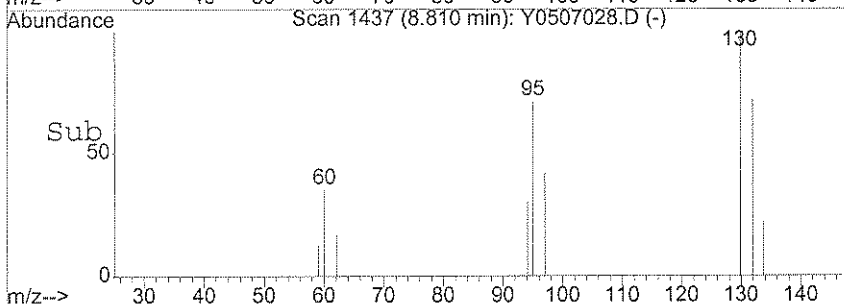
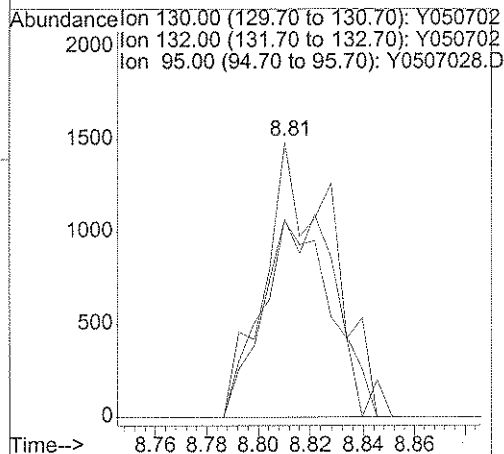
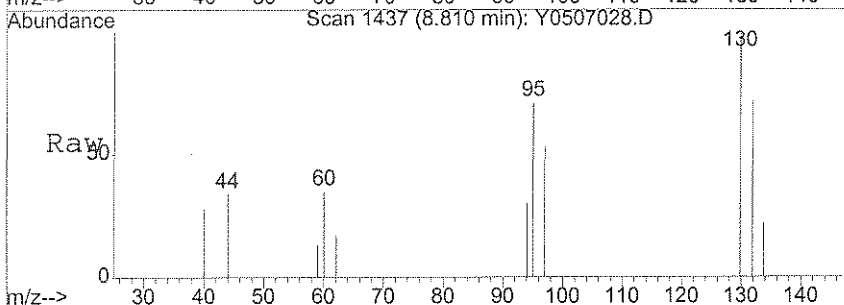
#38
 Carbon Tetrachloride
 Concen: 0.67 ug/l
 RT: 7.15 min Scan# 1155
 Delta R.T. -0.01 min
 Lab File: Y0507028.D
 Acq: 7 May 2008 19:38

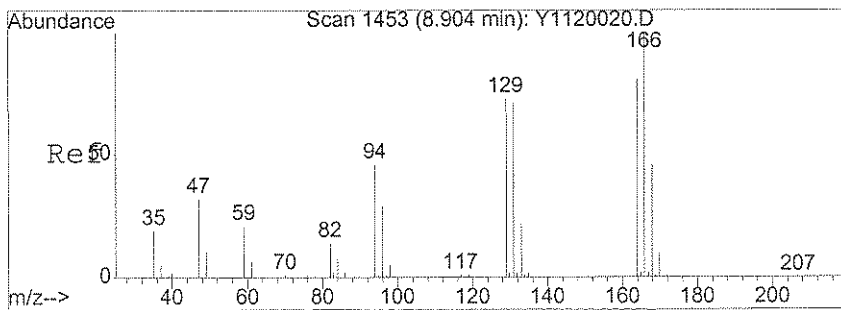
Tgt Ion: 117 Resp: 3789
 Ion Ratio Lower Upper
 117 100
 119 74.9 78.2 118.2#



#45
 Trichloroethene
 Concen: 0.59 ug/l
 RT: 8.81 min Scan# 1437
 Delta R.T. -0.01 min
 Lab File: Y0507028.D
 Acq: 7 May 2008 19:38

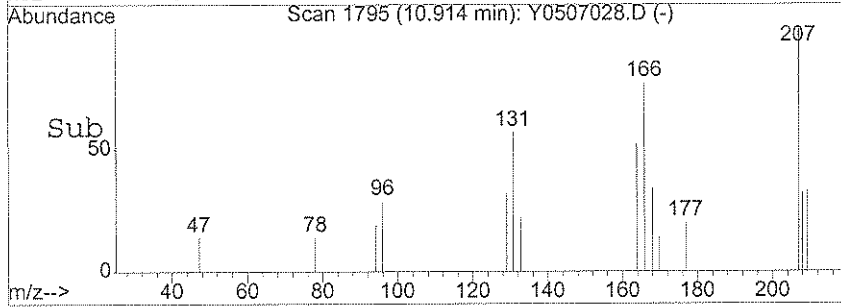
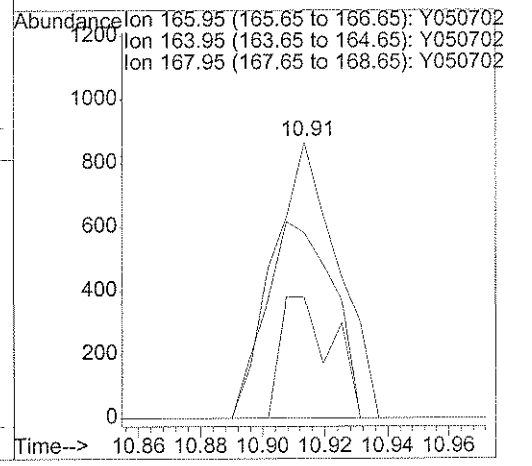
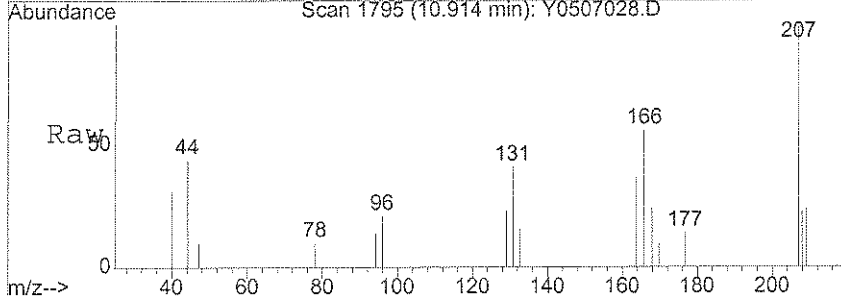
Tgt Ion: 130 Resp: 2525
 Ion Ratio Lower Upper
 130 100
 132 82.6 75.0 115.0
 95 82.2 69.4 109.4





#60
 Tetrachloroethene
 Concen: 0.29 ug/l
 RT: 10.91 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: Y0507028.D
 Acq: 7 May 2008 19:38

Tgt Ion	Resp	Lower	Upper
166	1241		
166	100		
164	74.6	63.3	94.9
168	35.1	39.6	59.4#



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-2

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-004
 Lab File ID: Y0507029.D
 Date Collected: 05/01/2008
 Date/Time Analyzed: 05/07/2008 20:02
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.43	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.25	J
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.45	J
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.99	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-2

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-004
 Lab File ID: Y0507029.D
 Date Collected: 05/01/2008
 Date/Time Analyzed: 05/07/2008 20:02
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.78	
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-2

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-004
 Lab File ID: Y0507029.D
 Date Collected: 05/01/2008
 Date/Time Analyzed: 05/07/2008 20:02
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

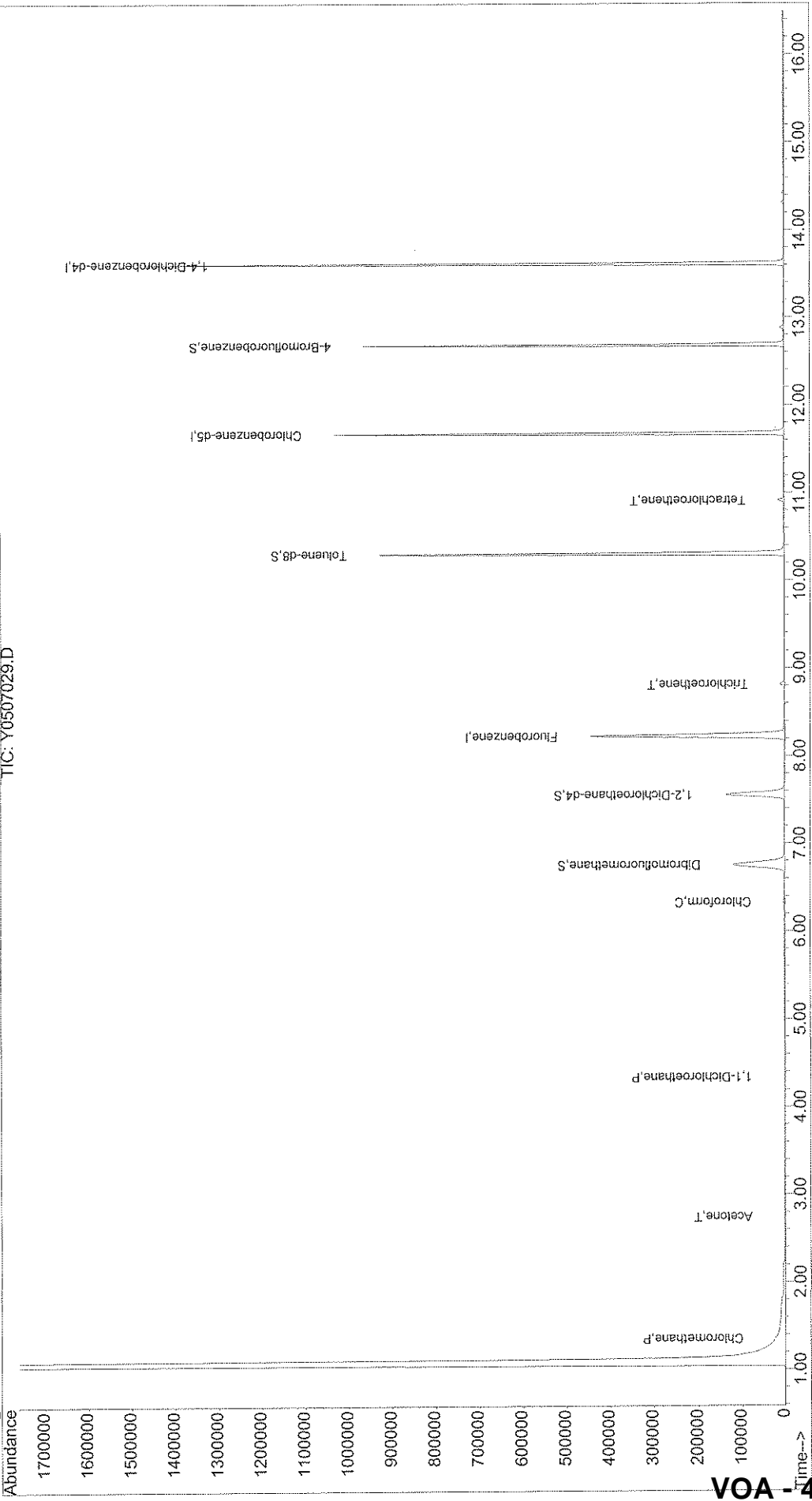
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507029.D Vial: 12
Acq On : 7 May 2008 20:02 Operator: DGA
Sample : JPL104-004 Inst : Yoda
Misc : #2 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 9 10:45 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



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Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507029.D
 Acq On : 7 May 2008 20:02
 Sample : JPL104-004
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 10:45 2008

Vial: 12
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\050608\Y0506014.D (6 May 2008 12:59)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	513167	50.00	ug/l	0.00 100.50%
54) Chlorobenzene-d5	11.68	82	253931	50.00	ug/l	0.00 103.82%
74) 1,4-Dichlorobenzene-d4	13.61	152	313181	50.00	ug/l	0.00 89.36%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	157723	46.99	ug/l	0.00
Spiked Amount	50.000	Range	85 - 115	Recovery	=	93.98%
40) 1,2-Dichloroethane-d4	7.55	65	163793	51.08	ug/l	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.16%
55) Toluene-d8	10.30	98	554687	50.45	ug/l	0.00
Spiked Amount	50.000	Range	85 - 120	Recovery	=	100.90%
76) 4-Bromofluorobenzene	12.68	95	232715	57.16	ug/l	0.00
Spiked Amount	50.000	Range	75 - 120	Recovery	=	114.32%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	2643	0.43	ug/l	98
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	1.79	96	70	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	2.69	101	56	N.D.		
11) Acetone	2.75	43	1095	0.90	ug/l #	70
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	714	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	3.70	73	67	N.D.		

(#) = qualifier out of range (m) = manual integration
 Y0507029.D Y8260W.M Fri May 09 10:46:04 2008

J. S. / gln
 Page 1
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Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507029.D
 Acq On : 7 May 2008 20:02
 Sample : JPL104-004
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 10:45 2008

Vial: 12
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	4.34	63	1950	0.25	ug/l	87
24) Vinyl acetate	0.00	43	0	N.D.		
25) Chloroprene	0.00	53	0	N.D.		
26) Isopropyl ether	0.00	45	0	N.D.		
27) Ethyl-t-butyl ether	0.00	59	0	N.D.		
28) 2,2-Dichloropropane	0.00	77	0	N.D.		
29) cis-1,2-Dichloroethene	0.00	96	0	N.D.		
30) 2-Butanone	5.65	43	133	N.D.		
31) Propionitrile	0.00	54	0	N.D.		
32) Bromochloromethane	0.00	128	0	N.D.		
33) Methacrylonitrile	0.00	41	0	N.D.		
34) Chloroform	6.34	83	3451	0.45	ug/l	85
35) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
37) Cyclohexane	0.00	56	0	N.D.		
38) Carbon Tetrachloride	7.14	117	398	N.D.		
39) 1,1-Dichloropropene	0.00	75	0	N.D.		
41) Benzene	7.64	78	75	N.D.		
42) 1,2-Dichloroethane	0.00	62	0	N.D.		
43) Isobutanol	0.00	43	0	N.D.	d	
44) t-amyl methyl ether	0.00	73	0	N.D.		
45) Trichloroethene	8.82	130	4072	0.99	ug/l	92
46) Methylcyclohexane	9.06	83	411	N.D.		
47) 1,2-Dichloropropane	0.00	63	0	N.D.		
48) Dibromomethane	0.00	93	0	N.D.		
49) Methyl methacrylate	0.00	41	0	N.D.		
50) Bromodichloromethane	9.50	83	137	N.D.		
51) 2-Chloroethyl vinyl ether	0.00	63	0	N.D.		
52) cis-1,3-Dichloropropene	10.23	75	53	N.D.		
53) 4-Methyl-2-pentanone	10.23	43	116	N.D.		
56) Toluene	10.37	92	135	N.D.		
57) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
58) Ethyl methacrylate	0.00	69	0	N.D.		
59) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
60) Tetrachloroethene	10.91	166	3260	0.78	ug/l	93
61) 1,3-Dichloropropane	0.00	76	0	N.D.		
62) 2-Hexanone	11.08	43	56	N.D.		
63) Dibromochloromethane	0.00	129	0	N.D.	d	
64) 1,2-Dibromoethane	0.00	107	0	N.D.		
65) Chlorobenzene	11.69	112	336	N.D.		
66) 1-Chlorohexane	11.71	91	89	N.D.		
67) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Quantitation Report

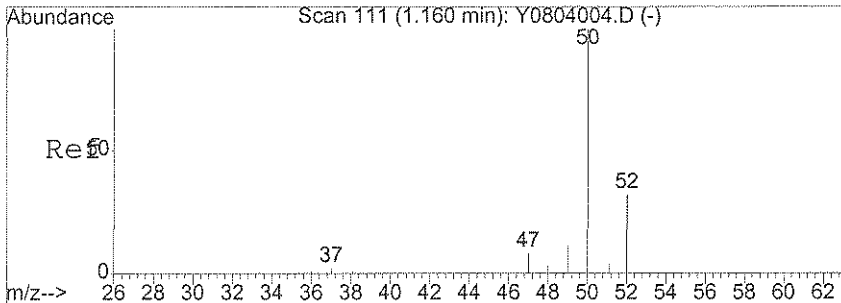
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 Acq On : 7 May 2008 20:02
 Sample : JPL104-004
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 10:45 2008

Vial: 12
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

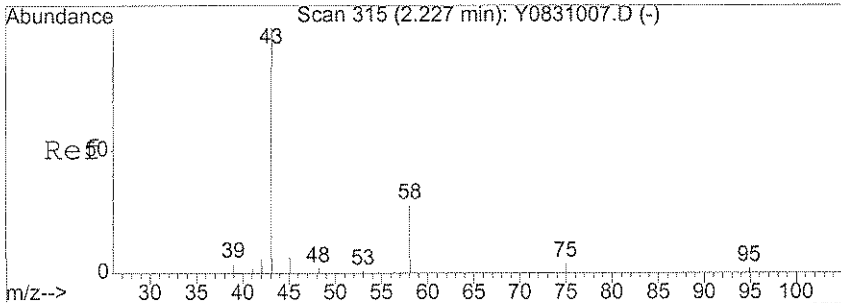
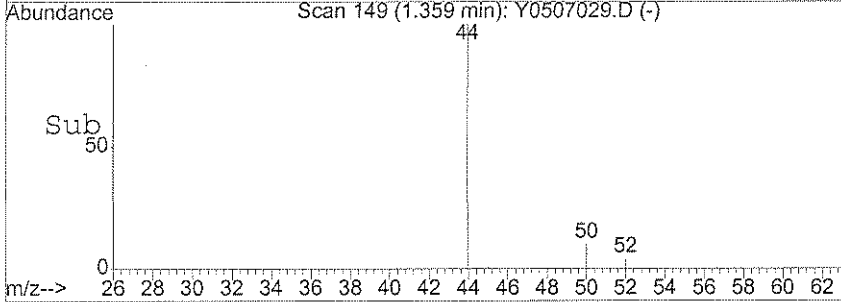
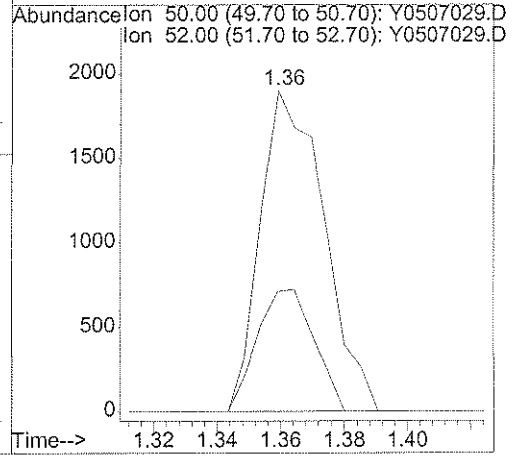
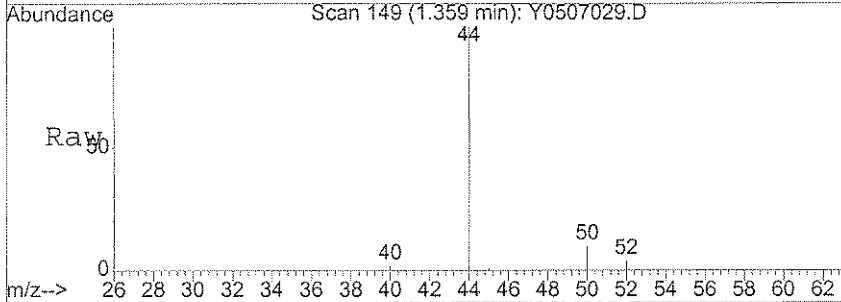
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	155		N.D.	
69) m,p-Xylene	11.91	106	174		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.56	105	157		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	0.00	156	0		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	12.90	120	151		N.D.	
81) 2-Chlorotoluene	12.96	91	115		N.D.	
82) 4-Chlorotoluene	13.05	91	76		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	581		N.D.	
88) 4-Isopropyltoluene	13.59	119	827		N.D.	
89) 1,4-Dichlorobenzene	13.92	146	326		N.D.	
90) 1,2-Dichlorobenzene	13.92	146	326		N.D.	
91) n-Butylbenzene	13.92	91	738		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.31	75	64		N.D.	
93) 1,2,4-Trichlorobenzene	15.18	180	617		N.D.	
94) Hexachlorobutadiene	15.30	225	257		N.D.	
95) Naphthalene	15.37	128	328		N.D.	
96) 1,2,3-Trichlorobenzene	15.55	180	1103		N.D.	



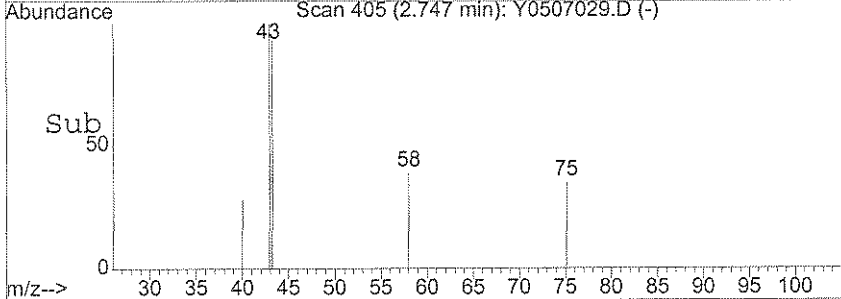
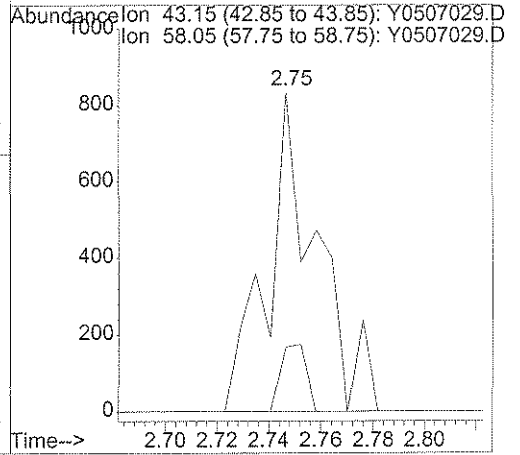
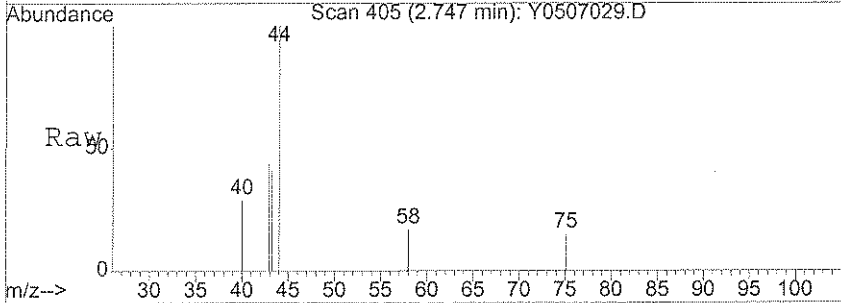
#3
 Chloromethane
 Concen: 0.43 ug/l
 RT: 1.36 min Scan# 149
 Delta R.T. -0.01 min
 Lab File: Y0507029.D
 Acq: 7 May 2008 20:02

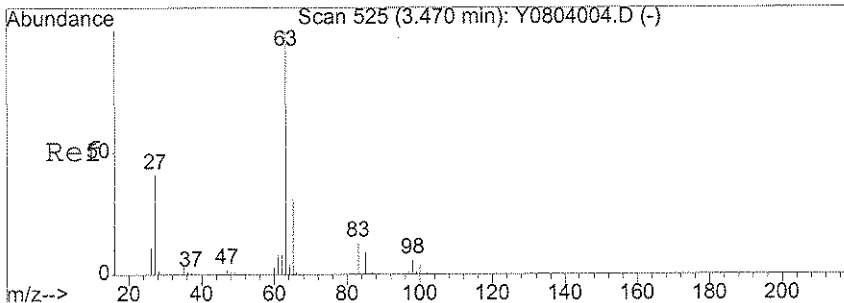
Tgt Ion: 50 Resp: 2643
 Ion Ratio Lower Upper
 50 100
 52 34.3 13.0 53.0



#11
 Acetone
 Concen: 0.90 ug/l
 RT: 2.75 min Scan# 405
 Delta R.T. 0.01 min
 Lab File: Y0507029.D
 Acq: 7 May 2008 20:02

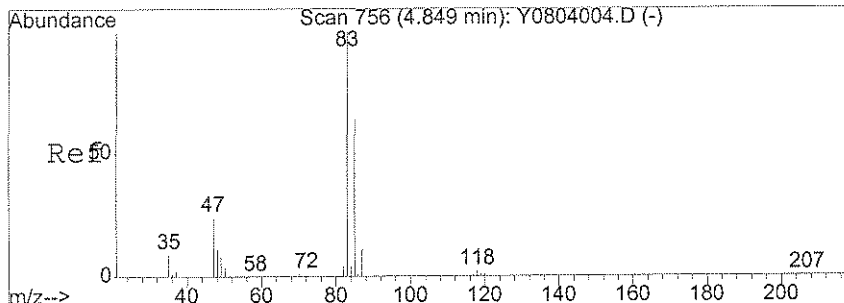
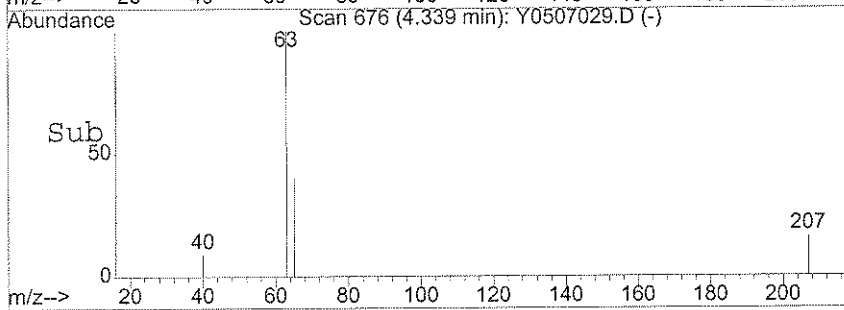
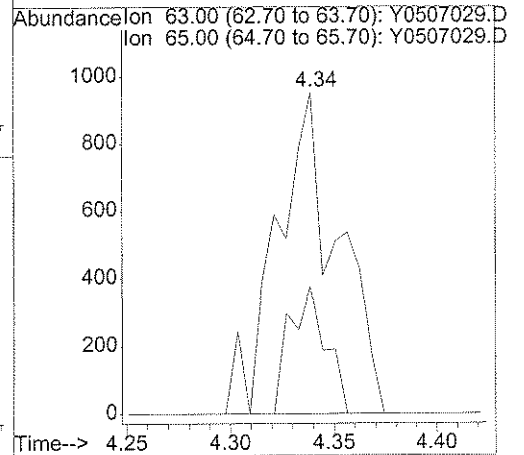
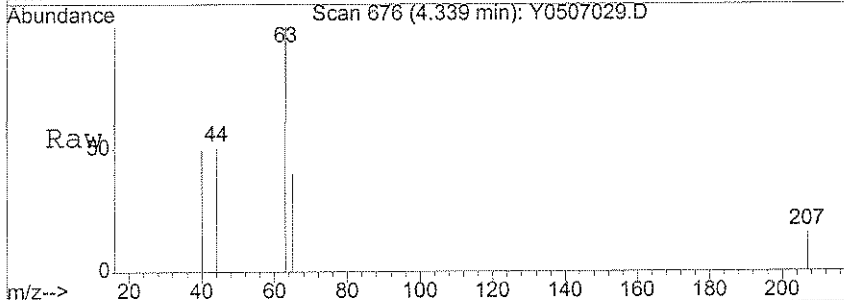
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 Ion Ratio Lower Upper
 43 100
 58 11.1 21.3 31.9#





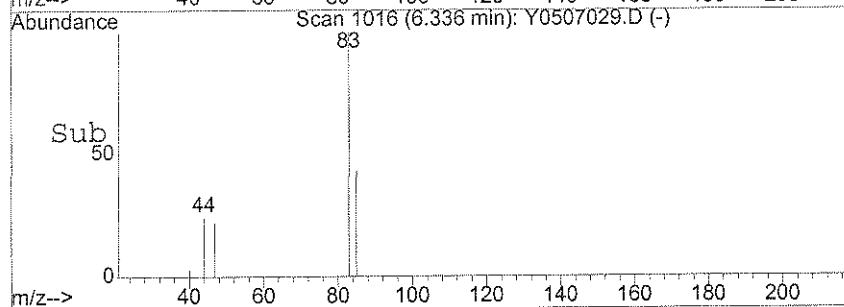
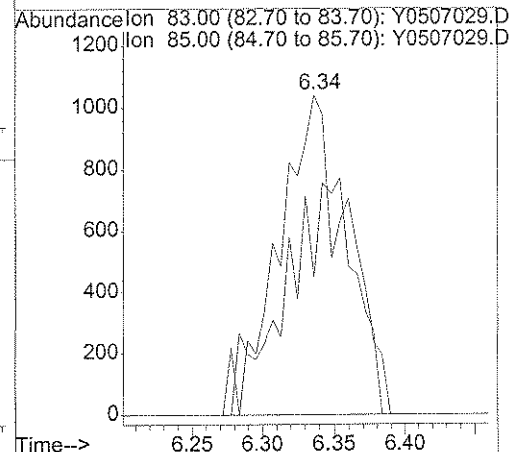
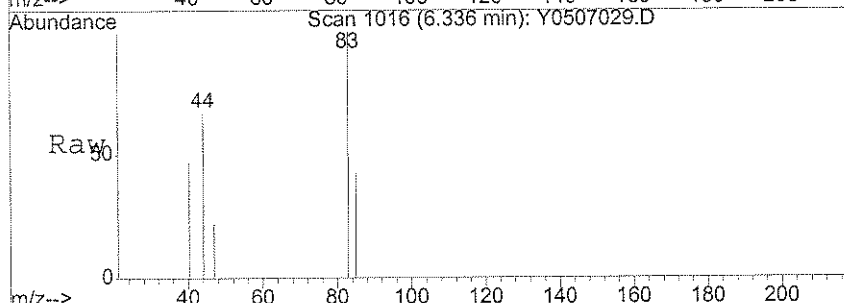
#23
 1,1-Dichloroethane
 Concen: 0.25 ug/l
 RT: 4.34 min Scan# 676
 Delta R.T. 0.00 min
 Lab File: Y0507029.D
 Acq: 7 May 2008 20:02

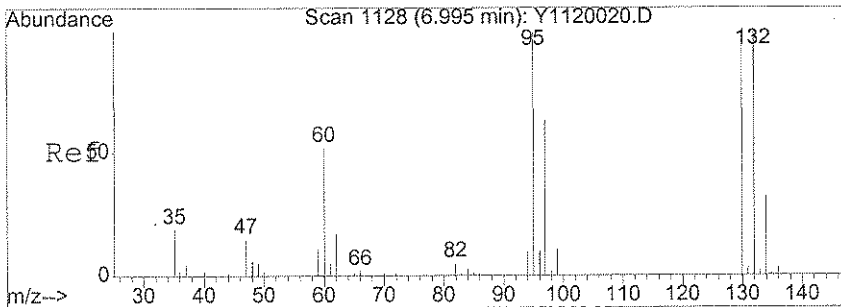
Tgt Ion: 63 Resp: 1950
 Ion Ratio Lower Upper
 63 100
 65 23.6 11.0 51.0



#34
 Chloroform
 Concen: 0.45 ug/l
 RT: 6.34 min Scan# 1016
 Delta R.T. 0.00 min
 Lab File: Y0507029.D
 Acq: 7 May 2008 20:02

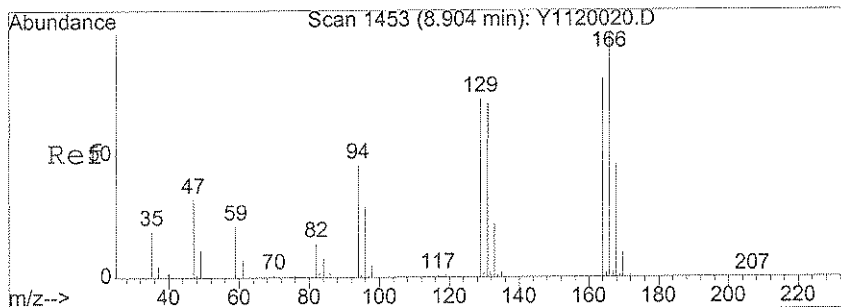
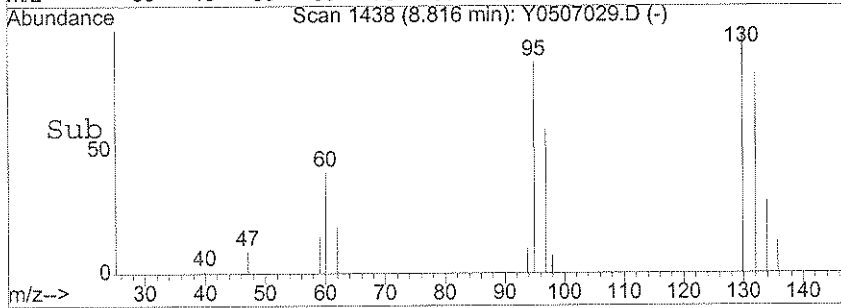
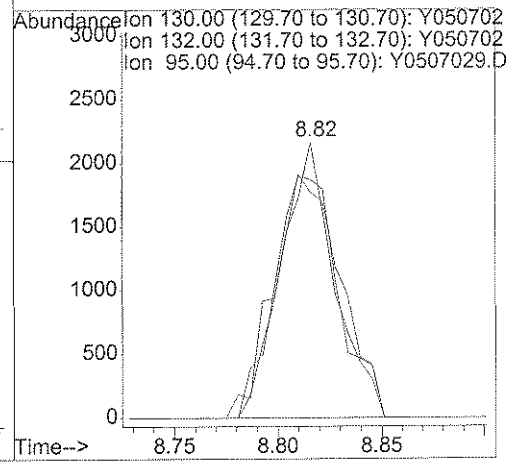
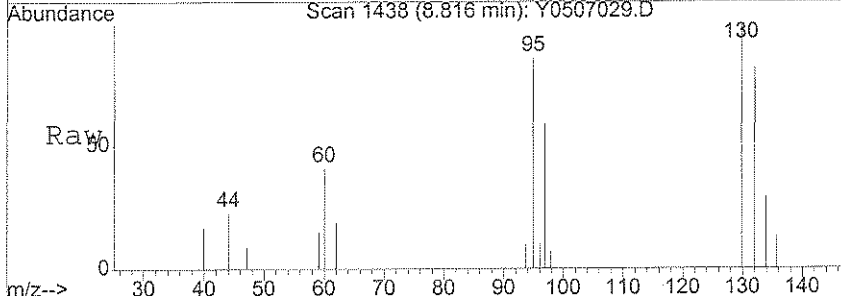
Tgt Ion: 83 Resp: 3451
 Ion Ratio Lower Upper
 83 100
 85 75.2 43.3 83.3





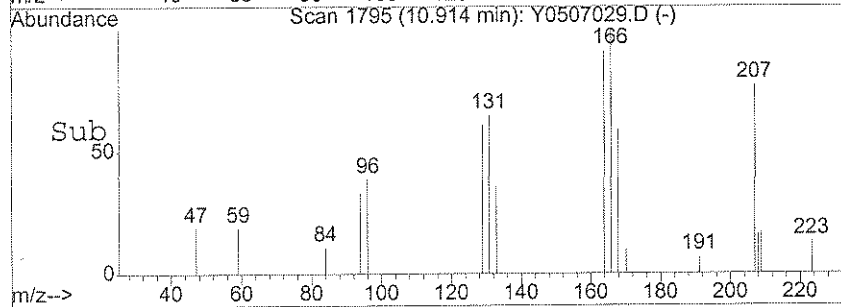
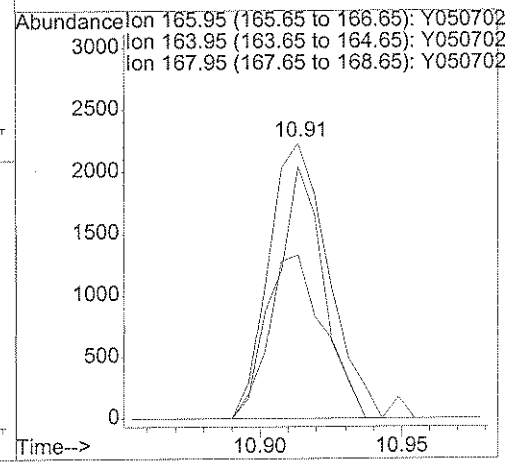
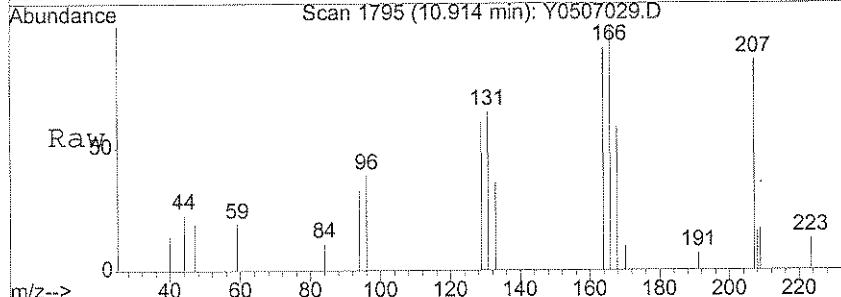
#45
 Trichloroethene
 Concen: 0.99 ug/l
 RT: 8.82 min Scan# 1438
 Delta R.T. 0.00 min
 Lab File: Y0507029.D
 Acq: 7 May 2008 20:02

Tgt Ion	Resp	Lower	Upper
130	100		
132	100.3	75.0	115.0
95	99.7	69.4	109.4



#60
 Tetrachloroethene
 Concen: 0.78 ug/l
 RT: 10.91 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: Y0507029.D
 Acq: 7 May 2008 20:02

Tgt Ion	Resp	Lower	Upper
166	100		
164	74.2	63.3	94.9
168	55.5	39.6	59.4



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-1

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-005
 Lab File ID: Y0507030.D
 Date Collected: 05/01/2008
 Date/Time Analyzed: 05/07/2008 20:27
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-1

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL104

Run Sequence: R027971

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL104-005

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0507030.D

Level: (LOW/MED) _____

Date Collected: 05/01/2008

% Moisture: not dec. _____

Date/Time Analyzed: 05/07/2008 20:27

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: _____(uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-1

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-005
 Lab File ID: Y0507030.D
 Date Collected: 05/01/2008
 Date/Time Analyzed: 05/07/2008 20:27
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

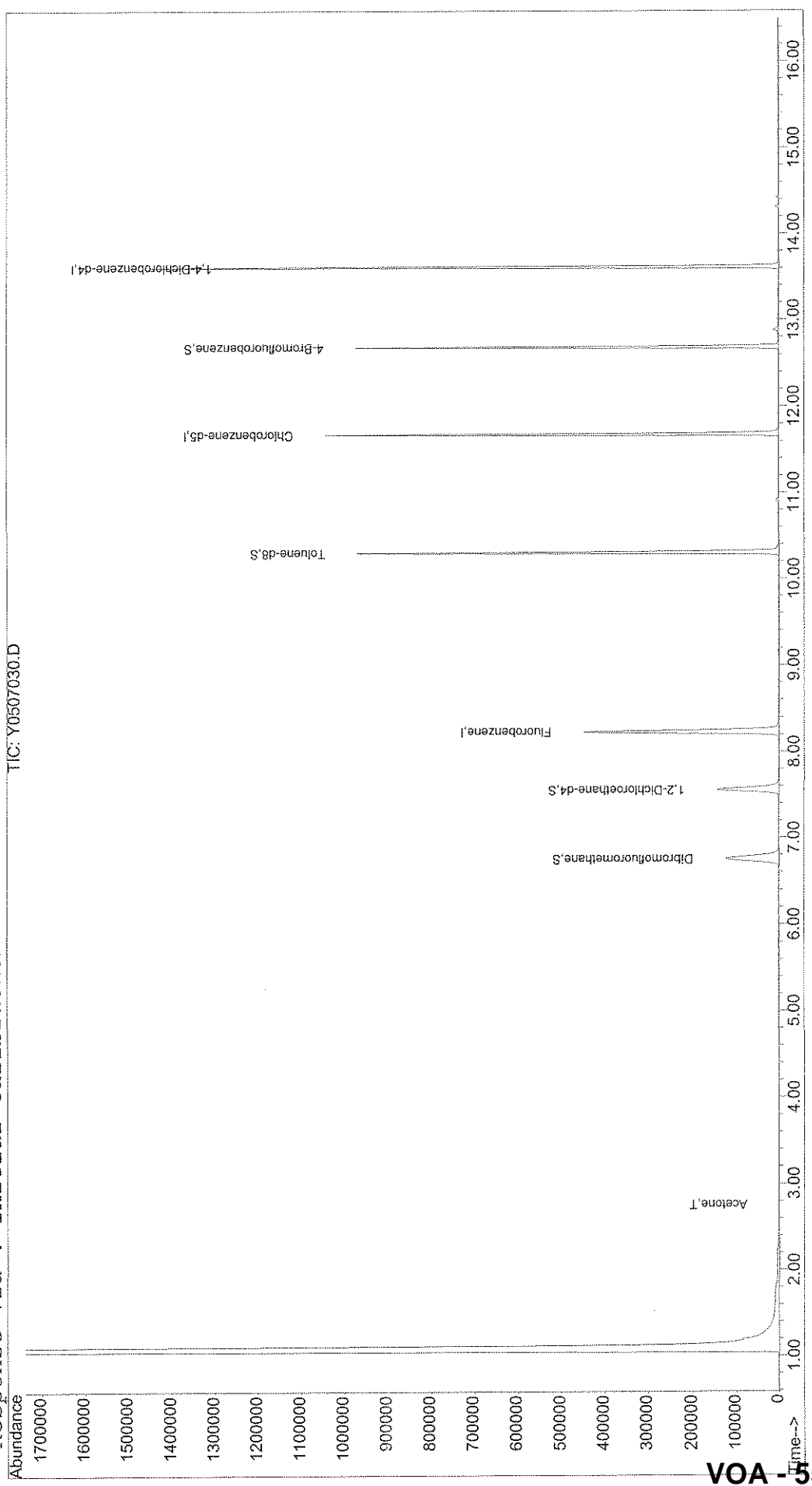
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507030.D Vial: 13
Acq On : 7 May 2008 20:27 Operator: DGA
Sample : JPL104-005 Inst : Yoda
Misc : #4 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 9 11:10 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260 - 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507030.D
 Acq On : 7 May 2008 20:27
 Sample : JPL104-005
 Misc : #4 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 11:10 2008

Vial: 13
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\050608\Y0506014.D (6 May 2008 12:59)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	527270	50.00	ug/l	0.00 103.26%
54) Chlorobenzene-d5	11.68	82	254332	50.00	ug/l	0.00 103.98%
74) 1,4-Dichlorobenzene-d4	13.61	152	309709	50.00	ug/l	0.00 88.37%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	161830	46.92	ug/l	0.00
Spiked Amount	50.000	Range	85 - 115	Recovery	=	93.84%
40) 1,2-Dichloroethane-d4	7.56	65	170997	51.91	ug/l	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.82%
55) Toluene-d8	10.30	98	561099	50.95	ug/l	0.00
Spiked Amount	50.000	Range	85 - 120	Recovery	=	101.90%
76) 4-Bromofluorobenzene	12.68	95	231207	57.43	ug/l	0.00
Spiked Amount	50.000	Range	75 - 120	Recovery	=	114.86%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	0.00	50	0	N.D.	d	
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	1.73	96	67	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	2.64	96	54	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	2.71	101	56	N.D.		
11) Acetone	2.76	43	930	0.74	ug/l #	77
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.90	76	698	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.28	84	54	Below Cal	#	1
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	3.62	53	128	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

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

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507030.D
 Acq On : 7 May 2008 20:27
 Sample : JPL104-005
 Misc : #4 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 11:10 2008

Vial: 13
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	5.43	96	71		N.D.	
30) 2-Butanone	5.60	43	151		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.64	78	72		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	9.05	83	56		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	10.25	43	145		N.D.	
56) Toluene	10.37	92	88		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.15	43	55		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	86		N.D.	
66) 1-Chlorohexane	11.71	91	92		N.D.	
67) 1,1,1,2-Tetrachloroethane	11.62	131	74		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0507030.D Y8260W.M Fri May 09 11:10:45 2008

J. Stab
 Page 2
 VOA-57

Quantitation Report

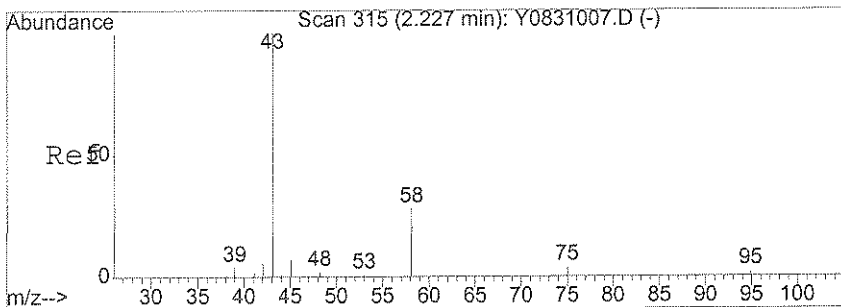
Data File : X:\MSVOA\YODA\050708\Y0507030.D
 Acq On : 7 May 2008 20:27
 Sample : JPL104-005
 Misc : #4 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 11:10 2008

Vial: 13
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

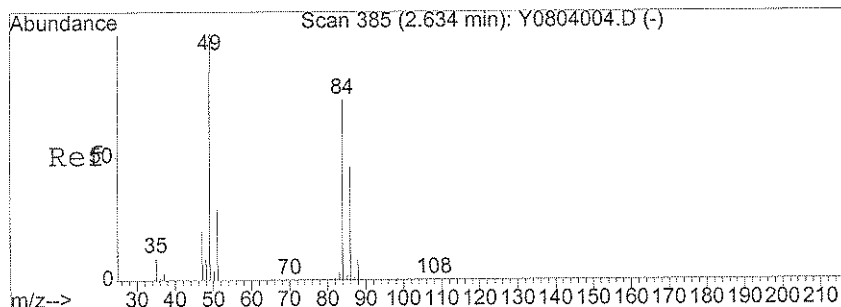
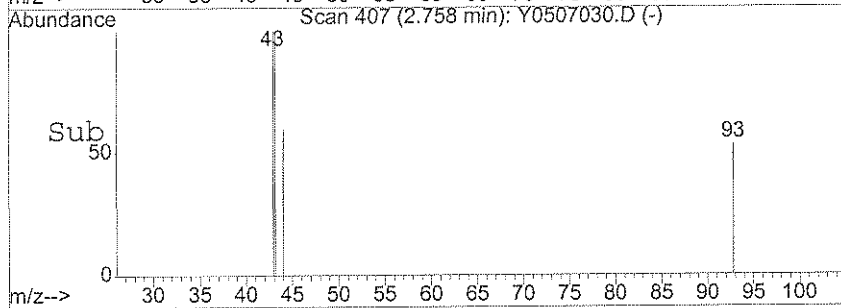
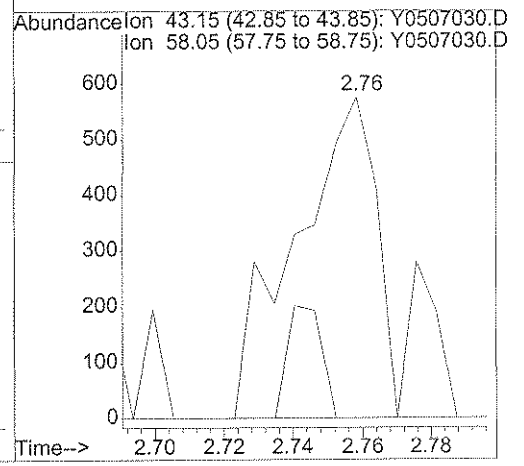
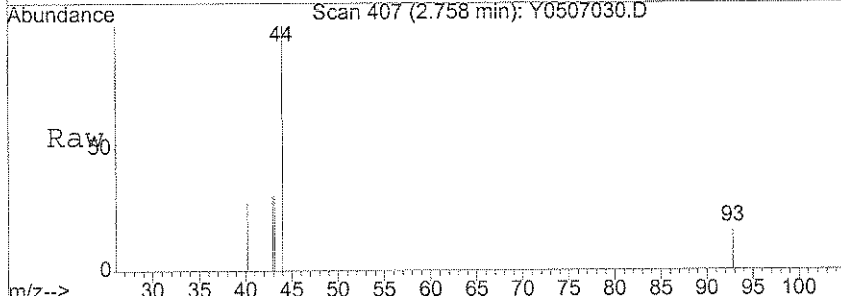
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.92	91	597		N.D.	
69) m,p-Xylene	11.91	106	275		N.D.	
70) o-xylene	12.24	106	56		N.D.	
71) Styrene	12.26	104	77		N.D.	
72) Bromoform	12.71	173	69		N.D.	
73) Isopropylbenzene	12.56	105	490		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.69	156	53		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	13.05	91	166		N.D.	
82) 4-Chlorotoluene	13.05	91	166		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	187		N.D.	
88) 4-Isopropyltoluene	13.59	119	490		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	137		N.D.	
90) 1,2-Dichlorobenzene	13.63	146	137		N.D.	
91) n-Butylbenzene	13.91	91	670		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	575		N.D.	
94) Hexachlorobutadiene	15.30	225	419		N.D.	
95) Naphthalene	15.36	128	407		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	275		N.D.	



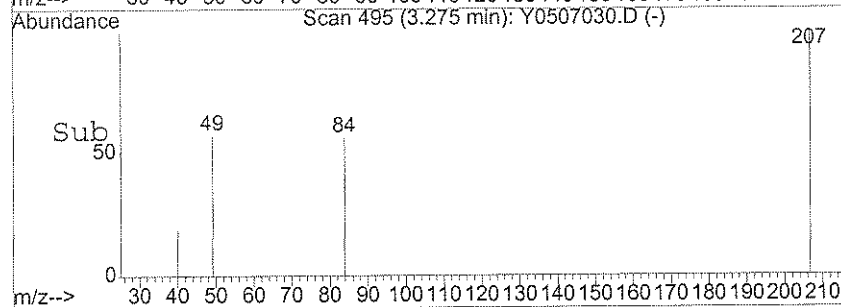
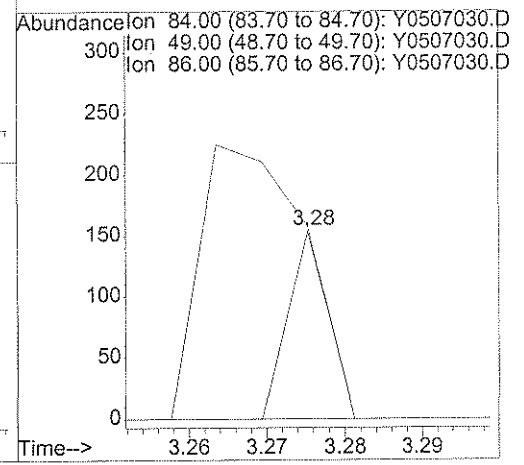
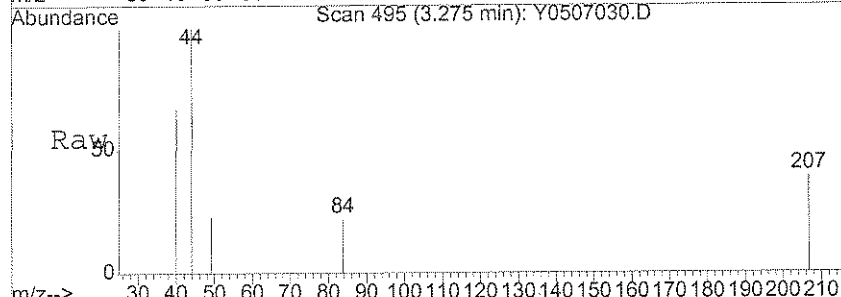
#11
 Acetone
 Concen: 0.74 ug/l
 RT: 2.76 min Scan# 407
 Delta R.T. 0.02 min
 Lab File: Y0507030.D
 Acq: 7 May 2008 20:27

Tgt Ion	Resp	Lower	Upper
43	100		
58	14.9	21.3	31.9#



#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.28 min Scan# 495
 Delta R.T. 0.01 min
 Lab File: Y0507030.D
 Acq: 7 May 2008 20:27

Tgt Ion	Resp	Lower	Upper
84	100		
49	387.0	112.5	152.5#
86	0.0	39.5	79.5#



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-07-5/1/08

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-006
 Lab File ID: Y0507031.D
 Date Collected: 05/01/2008
 Date/Time Analyzed: 05/07/2008 20:52
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.62	
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-07-5/1/08

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-006
 Lab File ID: Y0507031.D
 Date Collected: 05/01/2008
 Date/Time Analyzed: 05/07/2008 20:52
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-07-5/1/08

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-006
 Lab File ID: Y0507031.D
 Date Collected: 05/01/2008
 Date/Time Analyzed: 05/07/2008 20:52
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

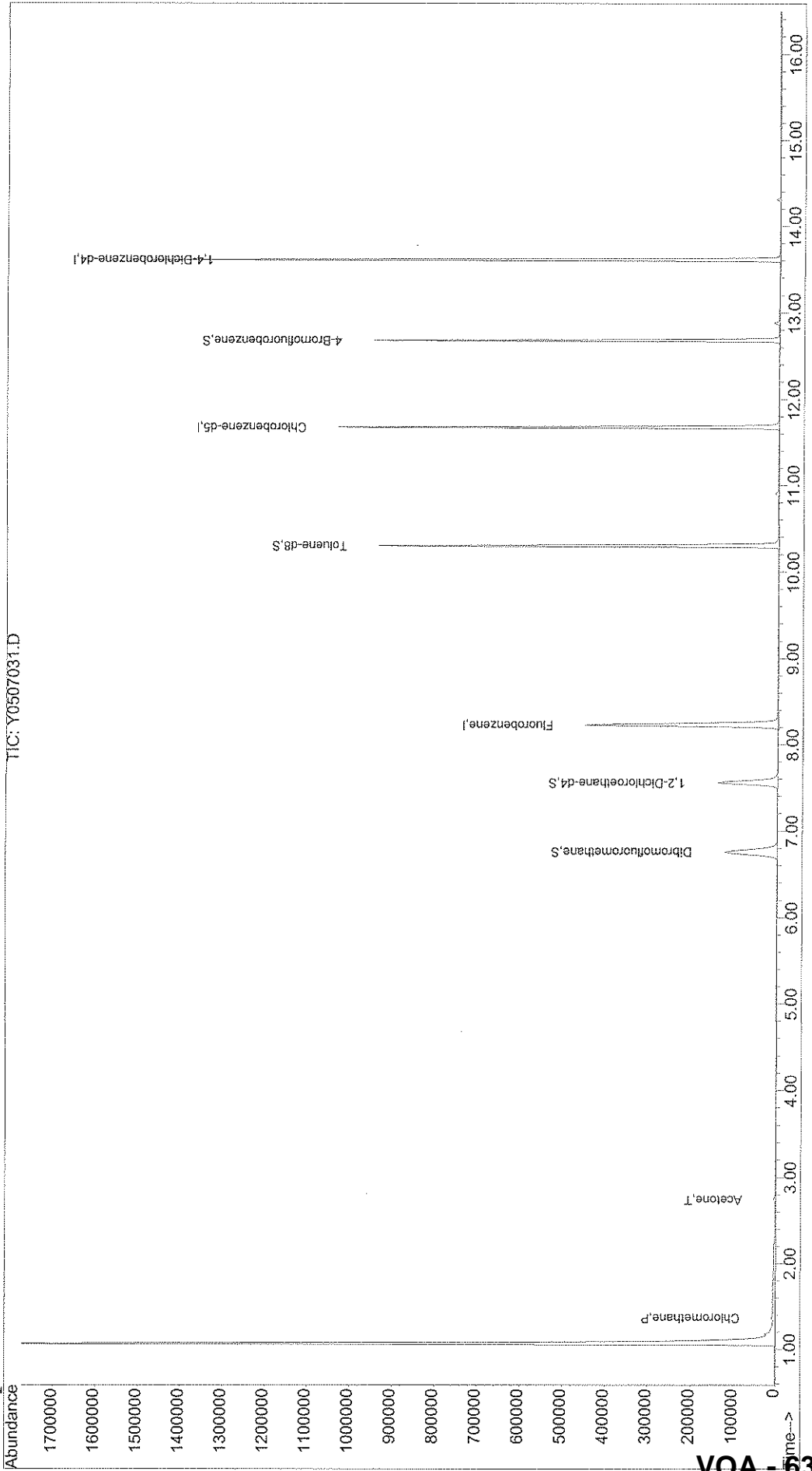
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507031.D
Acq On : 7 May 2008 20:52
Sample : JPL104-006
Misc : #2 5mL+IS/SS(524)
MS Integration Params: rteint.p
Quant Time: May 9 11:14 2008
Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507031.D
 Acq On : 7 May 2008 20:52
 Sample : JPL104-006
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 11:14 2008

Vial: 14
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\050608\Y0506014.D (6 May 2008 12:59)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	523642	50.00	ug/l	0.00	102.55%
54) Chlorobenzene-d5	11.68	82	255036	50.00	ug/l	0.00	104.27%
74) 1,4-Dichlorobenzene-d4	13.61	152	310392	50.00	ug/l	0.00	88.57%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	160240	46.78	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	93.56%	
40) 1,2-Dichloroethane-d4	7.55	65	167227	51.11	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.22%	
55) Toluene-d8	10.30	98	552671	50.05	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	100.10%	
76) 4-Bromofluorobenzene	12.68	95	225320	55.84	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	111.68%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	3902	0.62	ug/l	94
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	2.69	96	55	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.75	43	6435	5.17	ug/l	90
12) Iodomethane	2.76	142	54	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	809	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.28	84	125	Below Cal	#	1
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.	d	
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

(#) = qualifier out of range (m) = manual integration
 Y0507031.D Y8260W.M Fri May 09 11:14:17 2008

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 Page 1
 NOA-64

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507031.D
 Acq On : 7 May 2008 20:52
 Sample : JPL104-006
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 11:14 2008

Vial: 14
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	4.44	43	54		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	0.00	43	0		N.D.	d
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.34	83	134		N.D.	
35) 1,1,1-Trichloroethane	6.56	97	55		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.62	78	62		N.D.	
42) 1,2-Dichloroethane	7.55	62	84		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	8.82	130	67		N.D.	
46) Methylcyclohexane	9.05	83	62		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	9.32	41	68		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.30	92	63		N.D.	
57) trans-1,3-Dichloropropene	10.63	75	65		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.82	97	60		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	11.18	76	66		N.D.	
62) 2-Hexanone	10.97	43	110		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	80		N.D.	
66) 1-Chlorohexane	11.71	91	81		N.D.	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0507031.D Y8260W.M Fri May 09 11:14:17 2008

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 Page 2
VOA-65

Quantitation Report

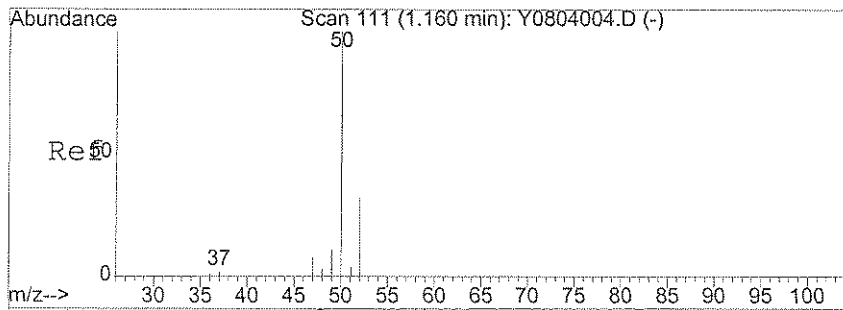
Data File : X:\MSVOA\YODA\050708\Y0507031.D
 Acq On : 7 May 2008 20:52
 Sample : JPL104-006
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 11:14 2008

Vial: 14
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

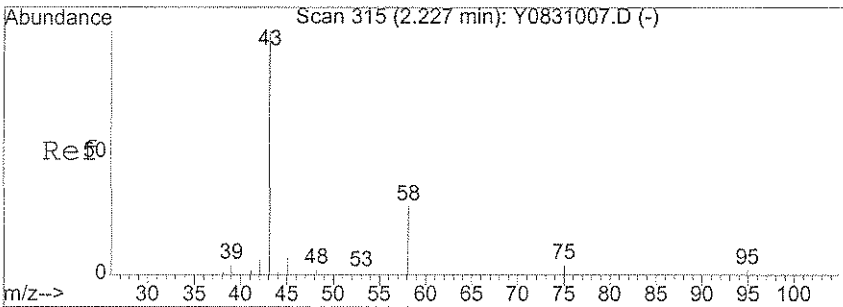
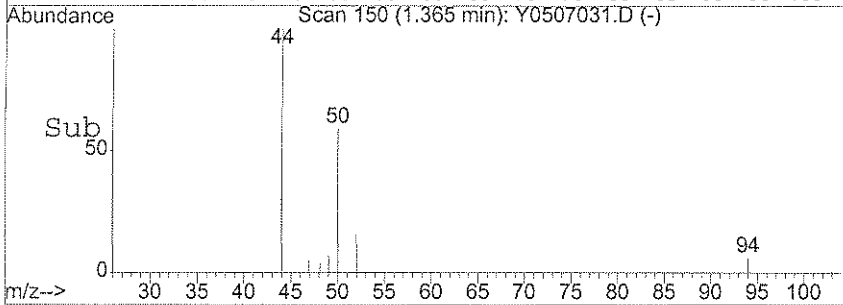
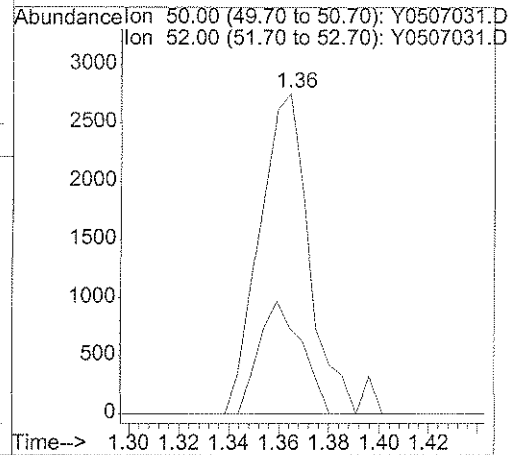
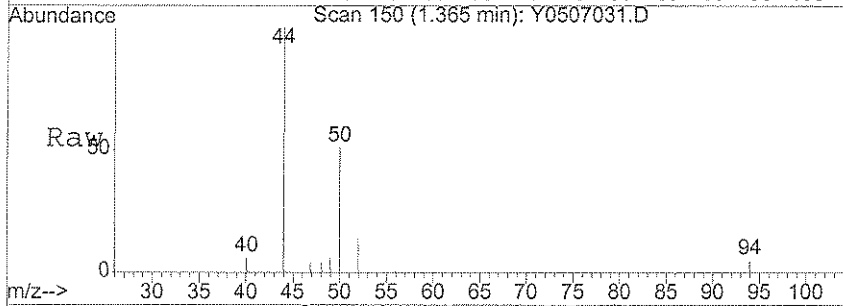
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.91	91	559		N.D.	
69) m,p-Xylene	11.91	106	259		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	12.66	173	78		N.D.	
73) Isopropylbenzene	12.56	105	227		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.69	156	54		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	13.05	120	127		N.D.	
81) 2-Chlorotoluene	12.96	91	245		N.D.	
82) 4-Chlorotoluene	13.05	91	87		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	69		N.D.	
88) 4-Isopropyltoluene	13.59	119	586		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	323		N.D.	
90) 1,2-Dichlorobenzene	13.63	146	323		N.D.	
91) n-Butylbenzene	13.90	91	595		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.31	75	54		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	540		N.D.	
94) Hexachlorobutadiene	15.30	225	261		N.D.	
95) Naphthalene	15.36	128	371		N.D.	
96) 1,2,3-Trichlorobenzene	15.55	180	415		N.D.	



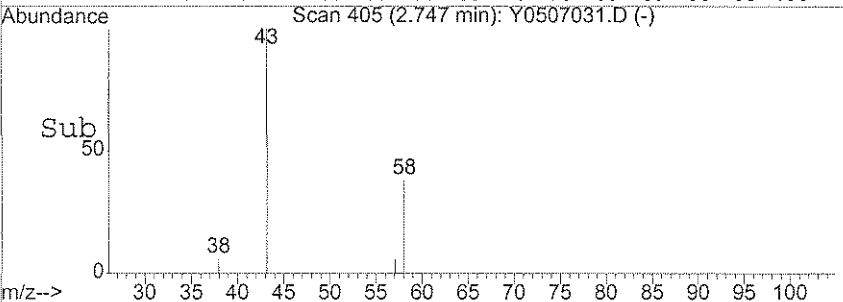
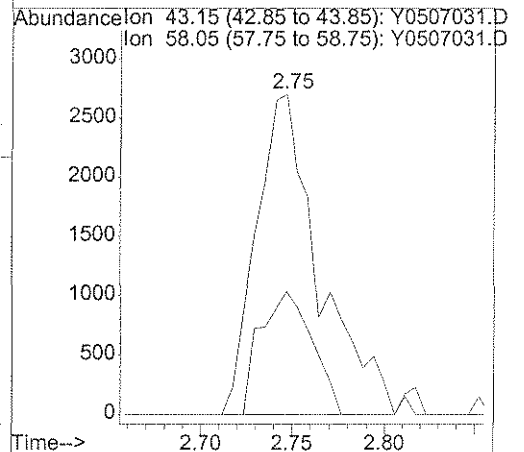
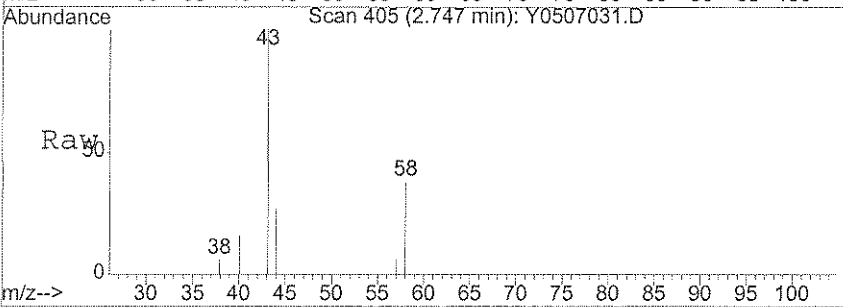
#3
 Chloromethane
 Concen: 0.62 ug/l
 RT: 1.36 min Scan# 150
 Delta R.T. -0.00 min
 Lab File: Y0507031.D
 Acq: 7 May 2008 20:52

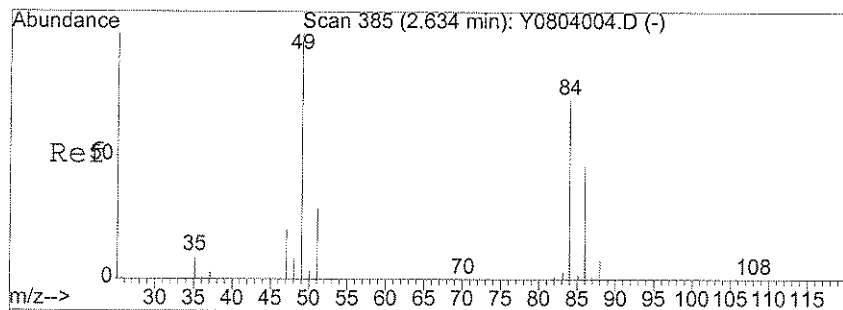
Tgt Ion: 50 Resp: 3902
 Ion Ratio Lower Upper
 50 100
 52 29.8 13.0 53.0



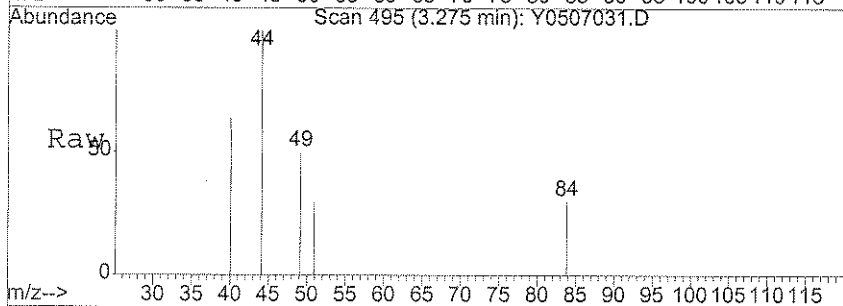
#11
 Acetone
 Concen: 5.17 ug/l
 RT: 2.75 min Scan# 405
 Delta R.T. 0.01 min
 Lab File: Y0507031.D
 Acq: 7 May 2008 20:52

Tgt Ion: 43 Resp: 6435
 Ion Ratio Lower Upper
 43 100
 58 31.8 21.3 31.9

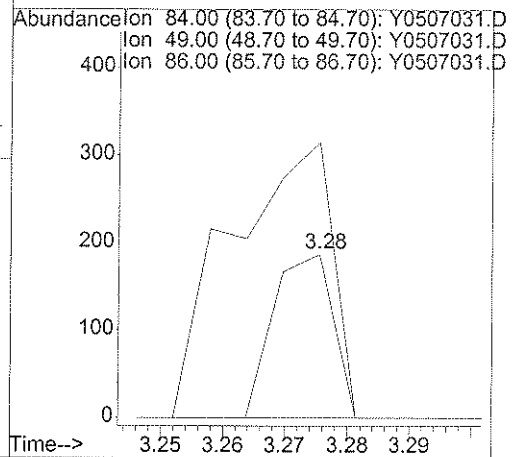
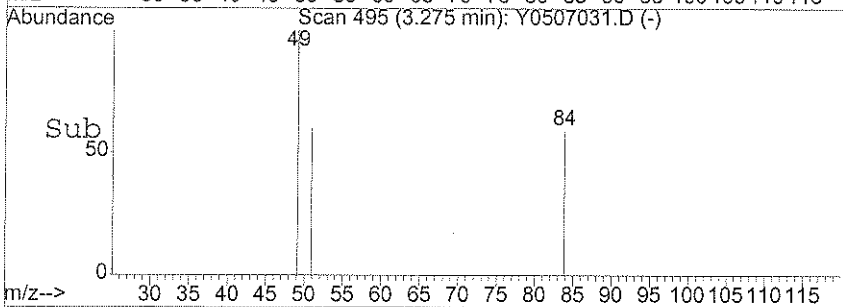




#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.28 min Scan# 495
 Delta R.T. 0.01 min
 Lab File: Y0507031.D
 Acq: 7 May 2008 20:52



Tgt Ion	Resp	Lower	Upper
84	100		
49	284.8	112.5	152.5#
86	0.0	39.5	79.5#



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-07-5/1/08

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-007
 Lab File ID: Y0507023.D
 Date Collected: 05/01/2008
 Date/Time Analyzed: 05/07/2008 17:34
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-07-5/1/08

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-007
 Lab File ID: Y0507023.D
 Date Collected: 05/01/2008
 Date/Time Analyzed: 05/07/2008 17:34
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-07-5/1/08

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-007
 Lab File ID: Y0507023.D
 Date Collected: 05/01/2008
 Date/Time Analyzed: 05/07/2008 17:34
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

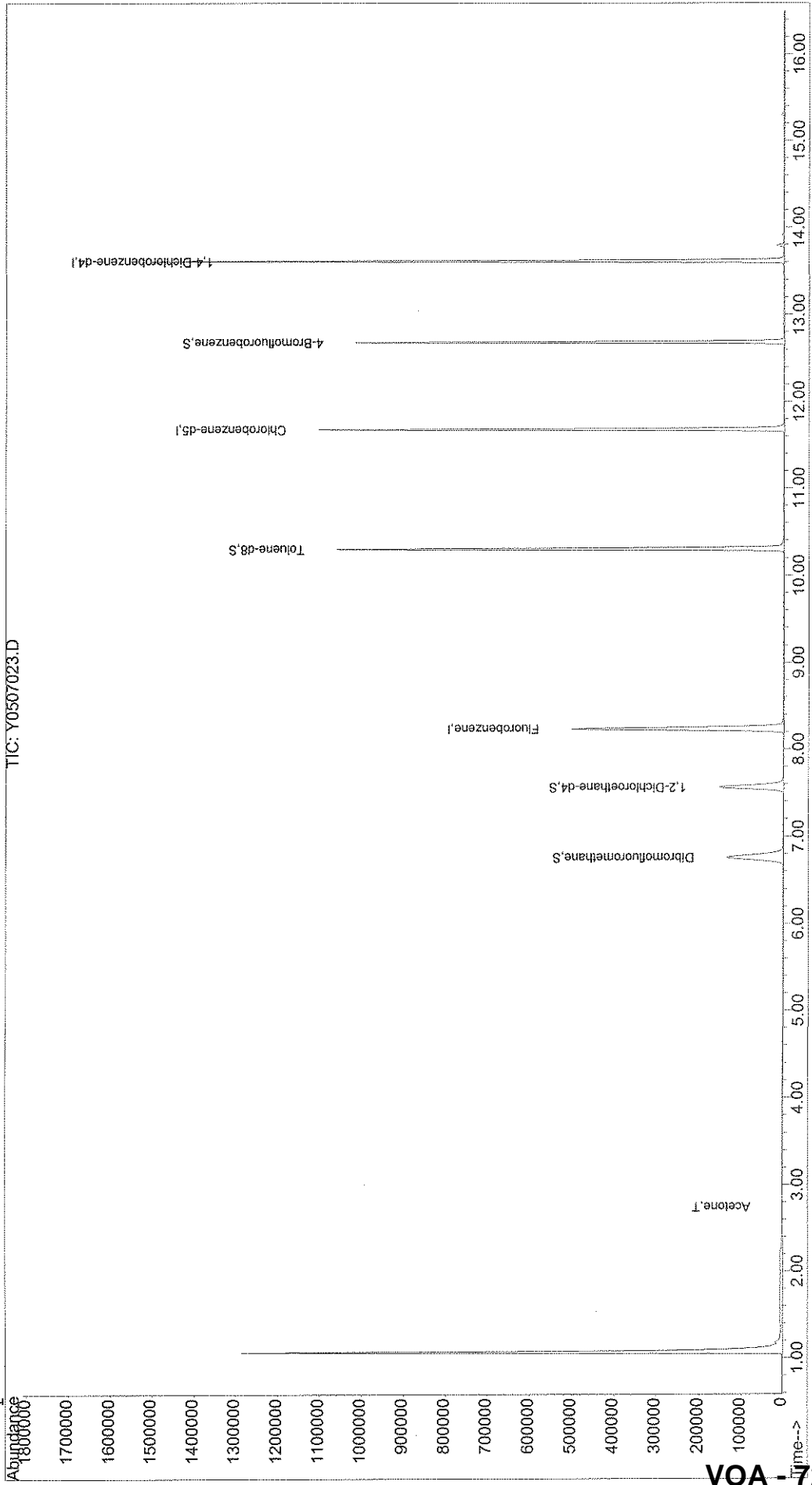
CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507023.D
Acq On : 7 May 2008 17:34
Sample : JPL104-007 TB
Misc : #1 5mL+IS/SS(524)
MS Integration Params: rteint.p
Quant Time: May 20 15:46 2008
Vial: 6
Operator: DGA
Inst : Yoda
Multiplr: 1.00
Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260/524.2/624 - 5ML Calibration 5973Y
Last Update : Fri May 16 11:42:02 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507023.D
 Acq On : 7 May 2008 17:34
 Sample : JPL104-007 TB
 Misc : #1 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 20 15:46 2008

Vial: 6
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	584388	50.00	ug/l	0.00	NA%
54) Chlorobenzene-d5	11.68	82	279159	50.00	ug/l	0.00	NA%
74) 1,4-Dichlorobenzene-d4	13.61	152	326246	50.00	ug/l	0.00	NA%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	178201	46.62	ug/l	0.00	
Spiked Amount	50.000		Range	85 - 115	Recovery	=	93.24%
40) 1,2-Dichloroethane-d4	7.56	65	180329	49.39	ug/l	0.00	
Spiked Amount	50.000		Range	70 - 120	Recovery	=	98.78%
55) Toluene-d8	10.30	98	617492	51.08	ug/l	0.00	
Spiked Amount	50.000		Range	85 - 120	Recovery	=	102.16%
76) 4-Bromofluorobenzene	12.68	95	244144	57.56	ug/l	0.00	
Spiked Amount	50.000		Range	75 - 120	Recovery	=	115.12%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	150	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	2.70	101	79	N.D.		
11) Acetone	2.74	43	781	0.56	ug/l #	80
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	1220	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.27	84	186	Below Cal	#	1
19) trans-1,2-Dichloroethene	3.68	96	58	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

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

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507023.D
 Acq On : 7 May 2008 17:34
 Sample : JPL104-007 TB
 Misc : #1 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 20 15:46 2008

Vial: 6
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	5.71	43	200		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.49	83	53		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	6.87	56	56		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.64	78	259		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	9.06	83	609		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	9.72	63	54		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.38	92	138		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.63	97	53		N.D.	
60) Tetrachloroethene	10.91	166	383		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.01	43	66		N.D.	
63) Dibromochloromethane	10.91	129	58		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	403		N.D.	
66) 1-Chlorohexane	11.71	91	362		N.D.	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

Jana 5/20/08

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507023.D
 Acq On : 7 May 2008 17:34
 Sample : JPL104-007 TB
 Misc : #1 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 20 15:46 2008

Vial: 6
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

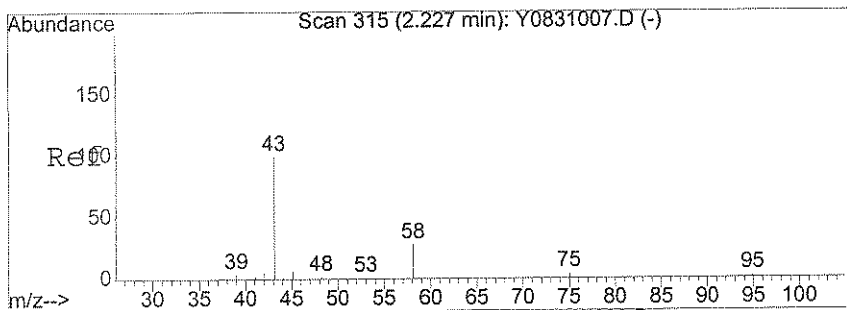
Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.82	91	452		N.D.	
69) m,p-Xylene	11.91	106	485		N.D.	
70) o-xylene	12.25	106	82		N.D.	
71) Styrene	12.27	104	345		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.55	105	613		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.80	156	55		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.67	83	229		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	12.89	120	228		N.D.	
81) 2-Chlorotoluene	12.96	91	561		N.D.	
82) 4-Chlorotoluene	12.96	91	561		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	513		N.D.	
88) 4-Isopropyltoluene	13.59	119	1784		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	553		N.D.	
90) 1,2-Dichlorobenzene	13.93	146	271		N.D.	
91) n-Butylbenzene	13.92	91	1734		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	667		N.D.	
94) Hexachlorobutadiene	0.00	225	0		N.D.	d
95) Naphthalene	15.36	128	655		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	744		N.D.	

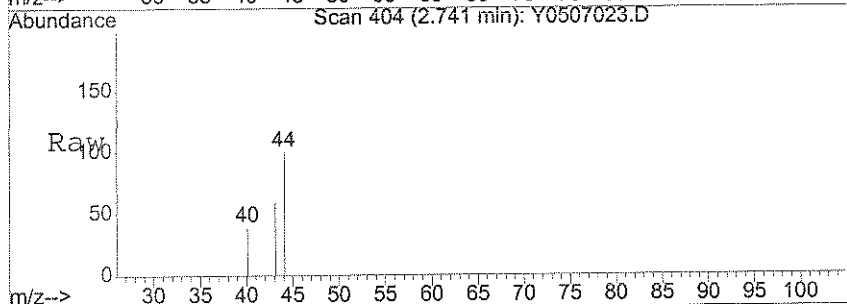
(#) = qualifier out of range (m) = manual integration
 Y0507023.D Y8260W.M Tue May 20 15:46:53 2008

QMS/2008

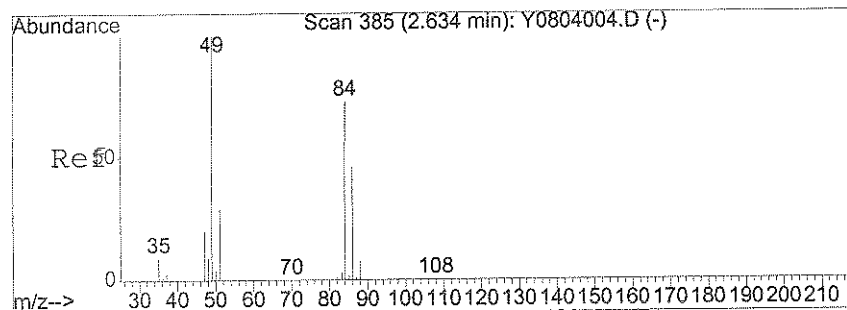
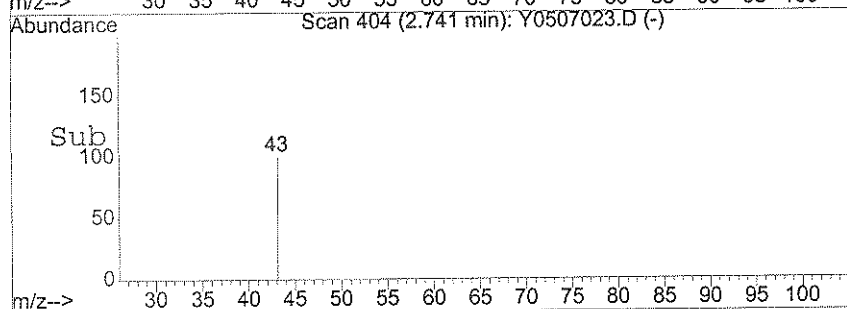
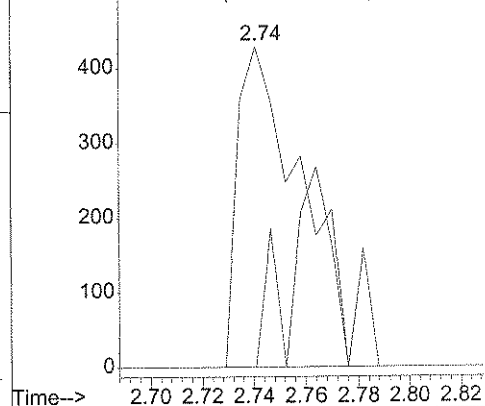


#11
 Acetone
 Concen: 0.56 ug/l
 RT: 2.74 min Scan# 404
 Delta R.T. 0.01 min
 Lab File: Y0507023.D
 Acq: 7 May 2008 17:34

Tgt Ion	Resp	Lower	Upper
43	100		
58	37.0	21.3	31.9#

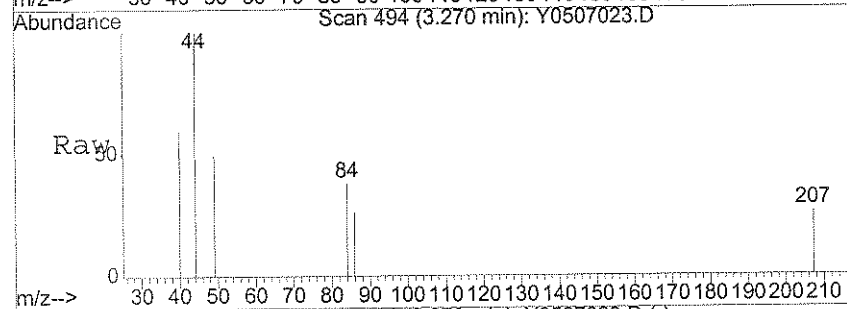


Abundance Ion 43.15 (42.85 to 43.85): Y0507023.D
 500 Ion 58.05 (57.75 to 58.75): Y0507023.D

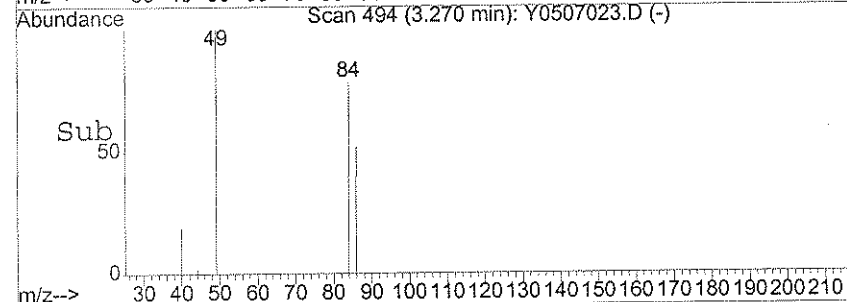
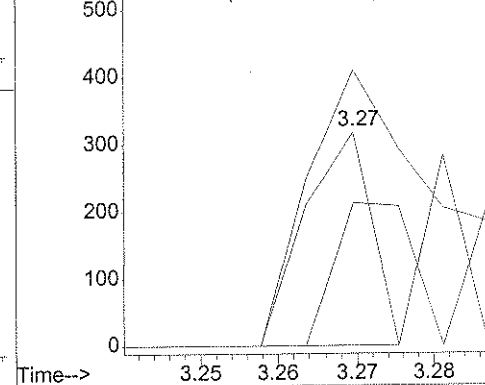


#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.27 min Scan# 494
 Delta R.T. 0.00 min
 Lab File: Y0507023.D
 Acq: 7 May 2008 17:34

Tgt Ion	Resp	Lower	Upper
84	100		
49	282.3	112.5	152.5#
86	120.4	39.5	79.5#



Abundance Ion 84.00 (83.70 to 84.70): Y0507023.D
 Ion 49.00 (48.70 to 49.70): Y0507023.D
 Ion 86.00 (85.70 to 86.70): Y0507023.D



TIC DATA

SDG #JPL104

Volatiles Analysis

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-17-5

Lab Name: Pace Analytical Services

SDG No.: JPL104

Matrix: (SOIL/WATER) Water

Sample wt/vol: 5.00 (g/mL) mL

Level: (LOW/MED) _____

% Moisture: not dec. _____

GC Column: ZB-624 20m ID: 0.18 (mm)

Soil Extract Volume: _____ (uL)

Number TICs Found: 0

Contract: JPL Groundwater Monitorin

Run Sequence: R027971

Lab Sample ID: JPL104-001

Lab File ID: Y0507026.D

Date Collected: 05/01/2008

Date Analyzed: 05/07/2008

Dilution Factor: 1.0

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
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12				
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14				
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26				
27				
28				
29				
30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507026.D Vial: 9
Acq On : 7 May 2008 18:48 Operator: DGA
Sample : JPL104-001 Inst : yoda
Misc : #2 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507026.D Y8260W.M Fri May 09 10:00:29 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-17-4

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-002
 Lab File ID: Y0507027.D
 Date Collected: 05/01/2008
 Date Analyzed: 05/07/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
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21				
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23				
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26				
27				
28				
29				
30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507027.D Vial: 10
Acq On : 7 May 2008 19:13 Operator: DGA
Sample : JPL104-002 Inst : yoda
Misc : #4 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507027.D Y8260W.M Fri May 09 10:43:30 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-17-3

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-003
 Lab File ID: Y0507028.D
 Date Collected: 05/01/2008
 Date Analyzed: 05/07/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
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28				
29				
30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507028.D Vial: 11
Acq On : 7 May 2008 19:38 Operator: DGA
Sample : JPL104-003 Inst : yoda
Misc : #4 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507028.D Y8260W.M Fri May 09 10:44:57 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-17-2

Lab Name: Pace Analytical Services

SDG No.: JPL104

Matrix: (SOIL/WATER) Water

Sample wt/vol: 5.00 (g/mL) mL

Level: (LOW/MED) _____

% Moisture: not dec. _____

GC Column: ZB-624 20m ID: 0.18 (mm)

Soil Extract Volume: _____ (uL)

Number TICs Found: 0

Contract: JPL Groundwater Monitorin

Run Sequence: R027971

Lab Sample ID: JPL104-004

Lab File ID: Y0507029.D

Date Collected: 05/01/2008

Date Analyzed: 05/07/2008

Dilution Factor: 1.0

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
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11				
12				
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28				
29				
30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507029.D Vial: 12
Acq On : 7 May 2008 20:02 Operator: DGA
Sample : JPL104-004 Inst : yoda
Misc : #2 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507029.D Y8260W.M Fri May 09 10:46:10 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-17-1

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL104-005
 Lab File ID: Y0507030.D
 Date Collected: 05/01/2008
 Date Analyzed: 05/07/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507030.D Vial: 13
Acq On : 7 May 2008 20:27 Operator: DGA
Sample : JPL104-005 Inst : yoda
Misc : #4 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507030.D Y8260W.M Fri May 09 11:10:50 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-07-5/1/08

Lab Name: Pace Analytical Services

SDG No.: JPL104

Matrix: (SOIL/WATER) Water

Sample wt/vol: 5.00 (g/mL) mL

Level: (LOW/MED) _____

% Moisture: not dec. _____

GC Column: ZB-624 20m ID: 0.18 (mm)

Soil Extract Volume: _____ (uL)

Number TICs Found: 0

Contract: JPL Groundwater Monitorin

Run Sequence: R027971

Lab Sample ID: JPL104-006

Lab File ID: Y0507031.D

Date Collected: 05/01/2008

Date Analyzed: 05/07/2008

Dilution Factor: 1.0

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
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27				
28				
29				
30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507031.D Vial: 14
Acq On : 7 May 2008 20:52 Operator: DGA
Sample : JPL104-006 Inst : yoda
Misc : #2 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507031.D Y8260W.M Fri May 09 11:14:23 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-07-5/1/08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL104

Run Sequence: R027971

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL104-007

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0507023.D

Level: (LOW/MED) _____

Date Collected: 05/01/2008

% Moisture: not dec. _____

Date Analyzed: 05/07/2008

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
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16				
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28				
29				
30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507023.D Vial: 6
Acq On : 7 May 2008 17:34 Operator: DGA
Sample : JPL104-007 TB Inst : yoda
Misc : #1 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507023.D Y8260W.M Fri May 09 09:35:51 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B050708MVOWY1

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: B050708MVOWY1
 Lab File ID: Y0507022.D
 Date Collected: _____
 Date Analyzed: 05/07/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
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11				
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28				
29				
30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507022.D Vial: 5
Acq On : 7 May 2008 17:09 Operator: DGA
Sample : B050708MVOWY1 Inst : yoda
Misc : 5mL PFW+IS/SS(MV8-45-10) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507022.D Y8260W.M Tue May 20 14:38:13 2008

SAMPLE DATA

SDG# JPL104

Semivolatiles

1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-4

Lab Name: Pace Analytical Services
 SDG No.: JPL104
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 1030.0 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: _____ Decanted: (Y/N) N
 Concentrated Extract Volume: 1000 (uL)
 Injection Volume: 2.0 (uL)
 GPC Cleanup: (Y/N) N pH: <2

Contract: JPL Groundwater Monitorin
 Run Sequence: R028025
 Lab Sample ID: JPL104-002
 Lab File ID: T0512012.D
 Date Collected: 05/01/2008
 Date Extracted: 05/08/2008
 Date Analyzed: 05/12/2008
 Dilution Factor: 1.0
 Extraction: (Type) CONT

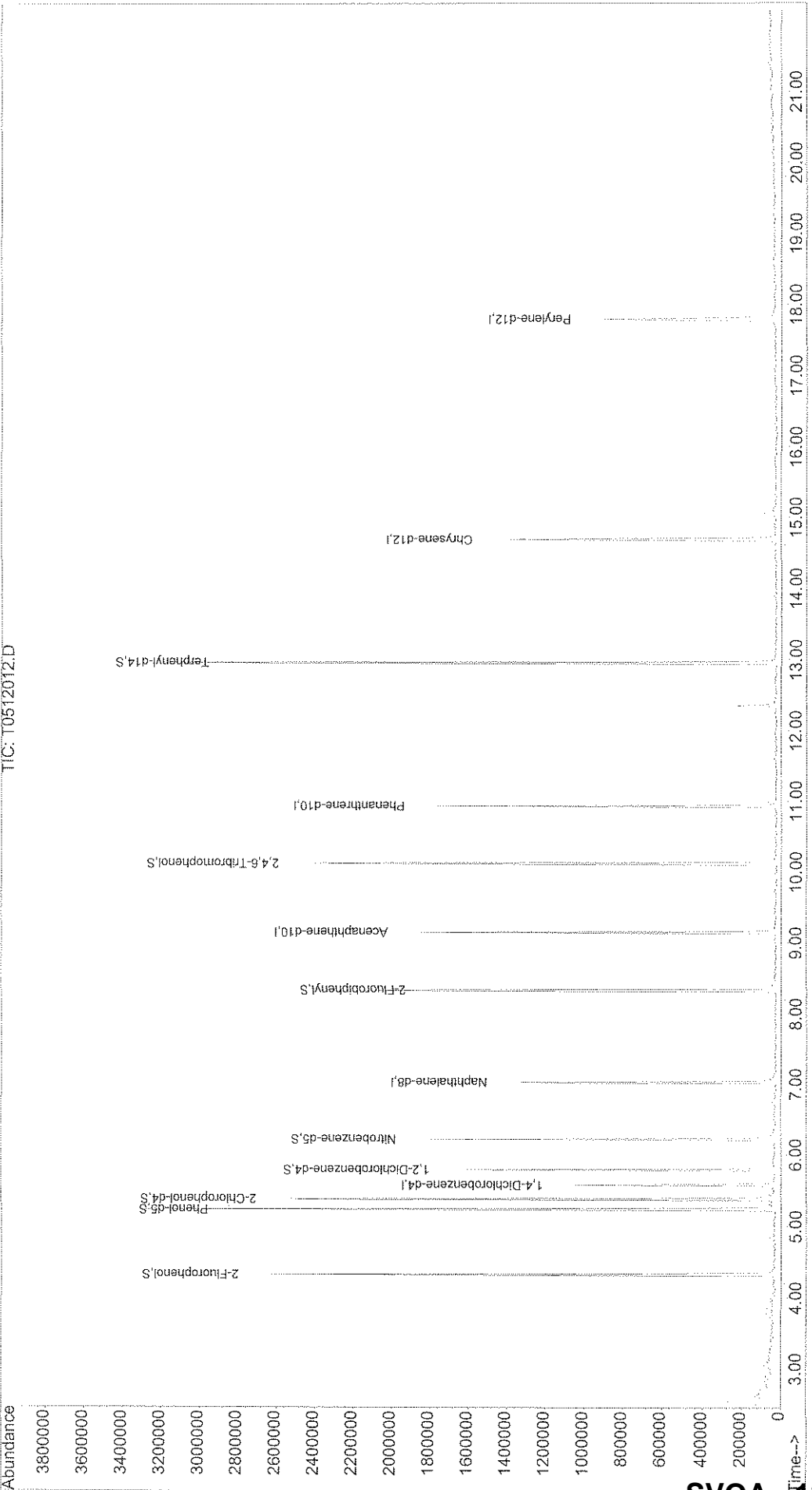
CAS NO.	COMPOUND	CONCENTRATION UNITS:	Q
		<u>ug/L</u>	
123-91-1	1,4-Dioxane	1.5	U

Comments:

Quantitation Report

Data File : X:\MSABN\DONALD\051208\T0512012.D Vial: 8
Acq On : 12 May 2008 17:54 Operator: VM
Sample : JPL104-002 Inst : GC/MS Ins
Misc : T5972 1030ML->1ML+IS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 7:05 2008 Quant Results File: DIOX.RES

Method : X:\MSABN\DONALD\QUANT\DIOX.M (RTE Integrator)
Title : 8270 SW846 BNA Calibration 5972T
Last Update : Tue May 13 07:11:22 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSABN\DONALD\051208\T0512012.D Vial: 8
 Acq On : 12 May 2008 17:54 Operator: VM
 Sample : JPL104-002 Inst : GC/MS Ins
 Misc : T5972 1030ML->1ML+IS Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: May 13 7:05 2008 Quant Results File: DIOX.RES

Quant Method : X:\MSABN\DONALD\QUANT\DIOX.M (RTE Integrator)
 Title : 8270 SW846 BNA Calibration 5972T
 Last Update : Tue May 13 07:11:22 2008
 Response via : Initial Calibration
 DataAcq Meth : ABND
 IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) 1,4-Dichlorobenzene-d4	5.58	152	198015	20.00	ng/ul	0.00 NA%
7) Naphthalene-d8	7.03	136	878523	20.00	ng/ul	0.00 NA%
9) Acenaphthene-d10	9.15	164	443382	20.00	ng/ul	0.00 NA%
11) Phenanthrene-d10	10.93	188	679620	20.00	ng/ul	0.00 NA%
13) Chrysene-d12	14.68	240	693344	20.00	ng/ul	-0.02 NA%
15) Perylene-d12	17.79	264	545786	20.00	ng/ul	-0.02 NA%

System Monitoring Compounds

3) 2-Fluorophenol	4.33	112	1106310	62.05	ng/ul	0.00
Spiked Amount	75.000	Range	23 - 117	Recovery	=	82.73%
4) Phenol-d5	5.24	99	1498179	67.66	ng/ul	0.00
Spiked Amount	75.000	Range	36 - 121	Recovery	=	90.21%
5) 2-Chlorophenol-d4	5.38	132	1095037	67.37	ng/ul	0.00
Spiked Amount	75.000	Range	48 - 117	Recovery	=	89.83%
6) 1,2-Dichlorobenzene-d4	5.79	152	292816	30.27	ng/ul	0.00
Spiked Amount	50.000	Range	38 - 82	Recovery	=	60.54%
8) Nitrobenzene-d5	6.22	82	701923	33.68	ng/ul	0.00
Spiked Amount	50.000	Range	57 - 102	Recovery	=	67.36%
10) 2-Fluorobiphenyl	8.34	172	925671	26.90	ng/ul	0.00
Spiked Amount	50.000	Range	46 - 106	Recovery	=	53.80%
12) 2,4,6-Tribromophenol	10.12	330	452302	70.78	ng/ul	0.00
Spiked Amount	75.000	Range	41 - 149	Recovery	=	94.37%
14) Terphenyl-d14	12.96	244	1554647	40.81	ng/ul	0.00
Spiked Amount	50.000	Range	79 - 136	Recovery	=	81.62%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.89	88	694	N.D.		

Metals Data

JPL104

COVER PAGE-INORGANIC ANALYSES DATA PACKAGE

Lab Name: Pace Analytical Services, Inc. Contract: JPL Groundwater Monitorin
 Lab Code: PACE SDG No.: JPL104
 SOW No.: _____

Sample No.	Lab Sample ID
<u>MW-17-5</u>	<u>JPL104-001</u>
<u>MW-17-4</u>	<u>JPL104-002</u>
<u>MW-17-3</u>	<u>JPL104-003</u>
<u>MW-17-2</u>	<u>JPL104-004</u>
<u>MW-17-1</u>	<u>JPL104-005</u>
<u>EB-07-5/1/08</u>	<u>JPL104-006</u>
<u>EB-07-5/1/08MS</u>	<u>JPL104-006MS</u>
<u>EB-07-5/1/08MSD</u>	<u>JPL104-006MSD</u>

Were ICP interelement corrections applied? Yes/No YES
 Were ICP background corrections applied? Yes/No NO
 If yes-was raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is technically complete, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Bill Ambacher Name: Bill Ambacher
 Date: 6/13/08 Title: Inorganics Technical Director

Metals Analysis Data Sheets

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-17-5

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL104

Matrix (soil/water): Water

Lab Sample ID: JPL104-001

Level (low/med): LOW

Date Received: 05/02/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	8.32			M	R028287
7440-70-2	Calcium	10600			P	R028272
7440-47-3	Chromium	1.89			M	R028287
7439-89-6	Iron	997			P	R028697
7439-92-1	Lead	1.20			M	R028287
7439-95-4	Magnesium	5000	U		P	R028697
7440-09-7	Potassium	5000	U		P	R028272
7440-23-5	Sodium	59800			P	R028272

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/13/2008 17:21

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-17-4

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL104

Matrix (soil/water): Water

Lab Sample ID: JPL104-002

Level (low/med): LOW

Date Received: 05/02/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	4.15			M	R028287
7440-70-2	Calcium	15800			P	R028272
7440-47-3	Chromium	2.40			M	R028287
7439-89-6	Iron	100	U		P	R028697
7439-92-1	Lead	1.00	U		M	R028287
7439-95-4	Magnesium	5000	U		P	R028697
7440-09-7	Potassium	5000	U		P	R028272
7440-23-5	Sodium	52900			P	R028272

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/13/2008 17:21

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-17-3

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL104

Matrix (soil/water): Water

Lab Sample ID: JPL104-003

Level (low/med): LOW

Date Received: 05/02/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.47			M	R028287
7440-70-2	Calcium	73600			P	R028272
7440-47-3	Chromium	5.67			M	R028287
7439-89-6	Iron	1270			P	R028697
7439-92-1	Lead	1.00	U		M	R028287
7439-95-4	Magnesium	32000			P	R028697
7440-09-7	Potassium	5000	U		P	R028272
7440-23-5	Sodium	26300			P	R028272

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/13/2008 17:21

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-17-2

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL104

Matrix (soil/water): Water

Lab Sample ID: JPL104-004

Level (low/med): LOW

Date Received: 05/02/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028287
7440-70-2	Calcium	110000			P	R028272
7440-47-3	Chromium	2.97			M	R028287
7439-89-6	Iron	152			P	R028697
7439-92-1	Lead	1.00	U		M	R028287
7439-95-4	Magnesium	40100			P	R028697
7440-09-7	Potassium	5000	U		P	R028272
7440-23-5	Sodium	31000			P	R028272

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/13/2008 17:21

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-17-1

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL104

Matrix (soil/water): Water

Lab Sample ID: JPL104-005

Level (low/med): LOW

Date Received: 05/02/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028287
7440-70-2	Calcium	45900			P	R028272
7440-47-3	Chromium	2.17			M	R028287
7439-89-6	Iron	102			P	R028697
7439-92-1	Lead	1.00	U		M	R028287
7439-95-4	Magnesium	16500			P	R028697
7440-09-7	Potassium	5000	U		P	R028272
7440-23-5	Sodium	17300			P	R028272

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/13/2008 17:21

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-07-5/1/08

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorinLab Code: PACESDG No.: JPL104Matrix (soil/water): WaterLab Sample ID: JPL104-006Level (low/med): LOWDate Received: 05/02/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028287
7440-70-2	Calcium	5000	U		P	R028272
7440-47-3	Chromium	1.93			M	R028287
7439-89-6	Iron	100	U		P	R028697
7439-92-1	Lead	1.00	U		M	R028287
7439-95-4	Magnesium	5000	U		P	R028697
7440-09-7	Potassium	5000	U		P	R028272
7440-23-5	Sodium	5000	U		P	R028272

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: NoComment _____

Date Printed: 6/13/2008 17:21

Miscellaneous Inorganic Data

JPL104

COVER PAGE-INORGANIC ANALYSES DATA PACKAGE

Lab Name: Pace Analytical Services, Inc.

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL104

SOW No.: _____

<u>Sample No.</u>
<u>MW-17-5</u>
<u>MW-17-4</u>
<u>MW-17-3</u>
<u>MW-17-2</u>
<u>MW-17-1</u>
<u>EB-07-5/1/08</u>

<u>Lab Sample ID</u>
<u>JPL104-001</u>
<u>JPL104-002</u>
<u>JPL104-003</u>
<u>JPL104-004</u>
<u>JPL104-005</u>
<u>JPL104-006</u>

Comments:

I certify that this data package is technically complete, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: 

Name: Rae J. Niwa

Date: June 3, 2008

Title: Inorganic Supervisor

Inorganic Analysis Data Sheets

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL104
Sample Number: MW-17-5 **Date/Time Collected:** 05/01/2008 08:00
Lab Sample ID: JPL104-001 **Date/Time Received:** 05/02/2008 10:35

Method/Qbatch*: E150.1/28973 **Unit:** pH Units
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	8.0		0.10	0.10	05/02/2008	05/02/2008	R027779

Method/Qbatch*: E160.1/29004 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	170		2.0	2.0	05/05/2008	05/07/2008	R027800

Method/Qbatch*: E300.0/29399 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R028174\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Sulfate	14808-79-8	2	22		2.0	0.34	05/16/2008	05/16/2008	R028174
Chloride	16887-00-6	2	10		2.0	0.15	05/16/2008	05/16/2008	R028174

Method/Qbatch*: E310.1/29245 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/13/2008	05/13/2008	R028026
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	120		2.0	2.0	05/13/2008	05/13/2008	R028026

Method/Qbatch*: E314.0/29567 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	05/22/2008	05/23/2008	R028313

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL104
Sample Number: MW-17-5 **Date/Time Collected:** 05/01/2008 08:00
Lab Sample ID: JPL104-001 **Date/Time Received:** 05/02/2008 10:35
Method/Qbatch*: E353.2/28991 **Unit:** mg/L
Instrument: Autoanalyzer (5) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Nitrate / Nitrite	N+N	1	0.050	U	0.050	0.016	05/05/2008	05/05/2008	R027797

Method/Qbatch*: E353.2/29263 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.50	U	0.50	0.010	05/05/2008	05/05/2008	R028042

Method/Qbatch*: E354.1/28986 **Unit:** mg/L
Instrument: UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrite - N	14797-65-0	1	0.018		0.0050	0.0012	05/02/2008	05/02/2008	R027793

Method/Qbatch*: E365.2/28987 **Unit:** mg/L
Instrument: UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Phosphorus, Orthophosphate (as P)	7723-14-0	1	0.10	U	0.10	0.0025	05/02/2008	05/02/2008	R027794

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL104
Sample Number: MW-17-4 **Date/Time Collected:** 05/01/2008 08:36
Lab Sample ID: JPL104-002 **Date/Time Received:** 05/02/2008 10:35
Method/Qbatch*: E150.1/28973 **Unit:** pH Units
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	8.1		0.10	0.10	05/02/2008	05/02/2008	R027779

Method/Qbatch*: E160.1/29004 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	170		2.0	2.0	05/05/2008	05/07/2008	R027800

Method/Qbatch*: E300.0/29371 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R028150\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Sulfate	14808-79-8	10	20		10	1.7	05/15/2008	05/15/2008	R028150
Chloride	16887-00-6	10	12		10	0.76	05/15/2008	05/15/2008	R028150

Method/Qbatch*: E310.1/29245 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/13/2008	05/13/2008	R028026
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	130		2.0	2.0	05/13/2008	05/13/2008	R028026

Method/Qbatch*: E314.0/29567 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	05/22/2008	05/23/2008	R028313

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL104
Sample Number: MW-17-4 **Date/Time Collected:** 05/01/2008 08:36
Lab Sample ID: JPL104-002 **Date/Time Received:** 05/02/2008 10:35
Method/Qbatch*: E353.2/28991 **Unit:** mg/L
Instrument: Autoanalyzer (5) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Nitrate / Nitrite	N+N	1	0.15		0.050	0.016	05/05/2008	05/05/2008	R027797

Method/Qbatch*: E353.2/29263 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.50	U	0.50	0.010	05/05/2008	05/05/2008	R028042

Method/Qbatch*: E354.1/28986 **Unit:** mg/L
Instrument: UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrite - N	14797-65-0	1	0.068		0.0050	0.0012	05/02/2008	05/02/2008	R027793

Method/Qbatch*: E365.2/28987 **Unit:** mg/L
Instrument: UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Phosphorus, Orthophosphate (as P)	7723-14-0	1	0.10	U	0.10	0.0025	05/02/2008	05/02/2008	R027794

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL104
Sample Number: MW-17-3 **Date/Time Collected:** 05/01/2008 09:54
Lab Sample ID: JPL104-003 **Date/Time Received:** 05/02/2008 10:35
Method/Qbatch*: E150.1/28973 **Unit:** pH Units
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.7		0.10	0.10	05/02/2008	05/02/2008	R027779

Method/Qbatch*: E160.1/29004 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	420		2.0	2.0	05/05/2008	05/07/2008	R027800

Method/Qbatch*: E300.0/29371 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R028150\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Sulfate	14808-79-8	10	73		10	1.7	05/15/2008	05/15/2008	R028150
Chloride	16887-00-6	10	64		10	0.76	05/15/2008	05/15/2008	R028150

Method/Qbatch*: E310.1/29245 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/13/2008	05/13/2008	R028026
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	180		2.0	2.0	05/13/2008	05/13/2008	R028026

Method/Qbatch*: E314.0/29567 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	22		4.0	0.56	05/22/2008	05/23/2008	R028313

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL104
Sample Number: MW-17-3 **Date/Time Collected:** 05/01/2008 09:54
Lab Sample ID: JPL104-003 **Date/Time Received:** 05/02/2008 10:35
Method/Qbatch*: E353.2/28991 **Unit:** mg/L
Instrument: Autoanalyzer (5) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Nitrate / Nitrite	N+N	10	10		0.50	0.16	05/05/2008	05/05/2008	R027797

Method/Qbatch*: E353.2/29263 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	10		0.50	0.010	05/05/2008	05/05/2008	R028042

Method/Qbatch*: E354.1/28986 **Unit:** mg/L
Instrument: UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrite - N	14797-65-0	1	0.0083		0.0050	0.0012	05/02/2008	05/02/2008	R027793

Method/Qbatch*: E365.2/28987 **Unit:** mg/L
Instrument: UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Phosphorus, Orthophosphate (as P)	7723-14-0	1	0.10	U	0.10	0.0025	05/02/2008	05/02/2008	R027794

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL104
Sample Number: MW-17-2 **Date/Time Collected:** 05/01/2008 10:30
Lab Sample ID: JPL104-004 **Date/Time Received:** 05/02/2008 10:35
Method/Qbatch*: E150.1/28973 **Unit:** pH Units
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.5		0.10	0.10	05/02/2008	05/02/2008	R027779

Method/Qbatch*: E160.1/29004 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	560		2.0	2.0	05/05/2008	05/07/2008	R027800

Method/Qbatch*: E300.0/29371 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R028150\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Sulfate	14808-79-8	10	140		10	1.7	05/15/2008	05/15/2008	R028150
Chloride	16887-00-6	10	99		10	0.76	05/15/2008	05/15/2008	R028150

Method/Qbatch*: E310.1/29245 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/13/2008	05/13/2008	R028026
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	220		2.0	2.0	05/13/2008	05/13/2008	R028026

Method/Qbatch*: E314.0/29567 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	7.1		4.0	0.56	05/22/2008	05/23/2008	R028313

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL104
Sample Number: MW-17-2 **Date/Time Collected:** 05/01/2008 10:30
Lab Sample ID: JPL104-004 **Date/Time Received:** 05/02/2008 10:35
Method/Qbatch*: E353.2/28991 **Unit:** mg/L
Instrument: Autoanalyzer (5) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Nitrate / Nitrite	N+N	10	9.7		0.50	0.16	05/05/2008	05/05/2008	R027797

Method/Qbatch*: E353.2/29263 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	9.7		0.50	0.010	05/05/2008	05/05/2008	R028042

Method/Qbatch*: E354.1/28986 **Unit:** mg/L
Instrument: UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrite - N	14797-65-0	1	0.0050	U	0.0050	0.0012	05/02/2008	05/02/2008	R027793

Method/Qbatch*: E365.2/28987 **Unit:** mg/L
Instrument: UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Phosphorus, Orthophosphate (as P)	7723-14-0	1	0.10	U	0.10	0.0025	05/02/2008	05/02/2008	R027794

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring
 SDG Number: JPL104
 Sample Number: MW-17-1 Date/Time Collected: 05/01/2008 11:05
 Lab Sample ID: JPL104-005 Date/Time Received: 05/02/2008 10:35

Method/Qbatch*: E150.1/28973 Unit: pH Units
 Instrument: None File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.4		0.10	0.10	05/02/2008	05/02/2008	R027779

Method/Qbatch*: E160.1/29004 Unit: mg/L
 Instrument: Balance (01) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	230		2.0	2.0	05/05/2008	05/07/2008	R027800

Method/Qbatch*: E300.0/29371 Unit: mg/L
 Instrument: Ion Chromatograph (2) File: R028150\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Sulfate	14808-79-8	10	39		10	1.7	05/15/2008	05/15/2008	R028150

Method/Qbatch*: E300.0/29399 Unit: mg/L
 Instrument: Ion Chromatograph (2) File: R028174\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Chloride	16887-00-6	2	10		2.0	0.15	05/16/2008	05/16/2008	R028174

Method/Qbatch*: E310.1/29245 Unit: mg/L
 Instrument: None File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/13/2008	05/13/2008	R028026
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	150		2.0	2.0	05/13/2008	05/13/2008	R028026

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL104
Sample Number: MW-17-1 **Date/Time Collected:** 05/01/2008 11:05
Lab Sample ID: JPL104-005 **Date/Time Received:** 05/02/2008 10:35
Method/Qbatch*: E314.0/29567 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	05/22/2008	05/23/2008	R028313

Method/Qbatch*: E353.2/28991 **Unit:** mg/L
Instrument: Autoanalyzer (5) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Nitrate / Nitrite	N+N	1	1.6		0.050	0.016	05/05/2008	05/05/2008	R027797

Method/Qbatch*: E353.2/29263 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	1.6		0.50	0.010	05/05/2008	05/05/2008	R028042

Method/Qbatch*: E354.1/28986 **Unit:** mg/L
Instrument: UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrite - N	14797-65-0	1	0.0050	U	0.0050	0.0012	05/02/2008	05/02/2008	R027793

Method/Qbatch*: E365.2/28987 **Unit:** mg/L
Instrument: UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Phosphorus, Orthophosphate (as P)	7723-14-0	1	0.10	U	0.10	0.0025	05/02/2008	05/02/2008	R027794

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL104
Sample Number: EB-07-5/1/08 **Date/Time Collected:** 05/01/2008 10:52
Lab Sample ID: JPL104-006 **Date/Time Received:** 05/02/2008 10:35

Method/Qbatch*: E150.1/28973 **Unit:** pH Units
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	6.6		0.10	0.10	05/02/2008	05/02/2008	R027779

Method/Qbatch*: E160.1/29004 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	2.0	U	2.0	2.0	05/05/2008	05/07/2008	R027800

Method/Qbatch*: E300.0/29371 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R028150\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Sulfate	14808-79-8	1	1.0	U	1.0	0.17	05/15/2008	05/15/2008	R028150
Chloride	16887-00-6	1	1.0	U	1.0	0.076	05/15/2008	05/15/2008	R028150

Method/Qbatch*: E310.1/29245 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/13/2008	05/13/2008	R028026
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	2.0	U	2.0	2.0	05/13/2008	05/13/2008	R028026

Method/Qbatch*: E314.0/29567 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	05/22/2008	05/23/2008	R028313

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL104
Sample Number: EB-07-5/1/08 **Date/Time Collected:** 05/01/2008 10:52
Lab Sample ID: JPL104-006 **Date/Time Received:** 05/02/2008 10:35
Method/Qbatch*: E353.2/28991 **Unit:** mg/L
Instrument: Autoanalyzer (5) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Nitrate / Nitrite	N+N	1	0.068		0.050	0.016	05/05/2008	05/05/2008	R027797

Method/Qbatch*: E353.2/29263 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.50	U	0.50	0.010	05/05/2008	05/05/2008	R028042

Method/Qbatch*: E354.1/28986 **Unit:** mg/L
Instrument: UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrite - N	14797-65-0	1	0.0050	U	0.0050	0.0012	05/02/2008	05/02/2008	R027793

Method/Qbatch*: E365.2/28987 **Unit:** mg/L
Instrument: UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Phosphorus, Orthophosphate (as P)	7723-14-0	1	0.10	U	0.10	0.0025	05/02/2008	05/02/2008	R027794

*QBatch=QC/Preparation Batch

PACE ANALYTICAL SERVICES, INC.

SAMPLE DATA PACKAGE

BATTELLE

SDG NO.: JPL105

June 16, 2008

Pace Analytical Services, Inc.

940 S. Harney
Seattle, WA 98108

To: Battelle
Project Name: JPL Groundwater
SDG No.: JPL105
Date of Report: June 16, 2008

SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:

Sample Receipt and Identification:

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<u>Client Sample Identification</u>	<u>Pace Sample Identification</u>	<u>Testing Analytical Request</u>
MW-18-5	JPL105-001	VOA/MET/INO
MW-18-4	JPL105-002	VOA/MET/INO
MW-18-3	JPL105-003	VOA/MET/INO
MW-18-2	JPL105-004	VOA/MET/INO
MW-18-1	JPL105-005	VOA/MET/INO
EB-08-05/05/08	JPL105-006	VOA/MET/INO
DUPE-2-2Q08	JPL105-007	VOA/MET/INO
TB-08-05/05/08	JPL105-008	VOA

Analytical Request Key:

VOA = Volatiles (524.2)
MET = Metals (200.7/200.8)
INO = Chloride, Sulfate, Ortho phosphorus (300.0)
Nitrate + Nitrite (353.2)
Nitrate (353.2)
Nitrite (354.1)
Alkalinity (310.1)
Perchlorate (314.0)
Total Dissolved Solids (160.1)
pH (150.1)

Summary of NELAC test accreditation

Determination	NELAC approved
150.1 pH	YES
160.1 Total Dissolved Solids	YES
200.7 K, Na, Mg, Ca, Fe	YES
200.8 As, Cr, Pb	YES
300 Anions Cl and SO4	YES
310.1M Carb./Bicarb. Alkalinity	YES
314.0 Perchlorate	YES

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Seattle, WA 98108

353.2 Nitrate (as N) by Calc., water	YES
353.2 Nitrate + Nitrite (as N), Water	YES
354.1 Nitrite (as N), Water	YES
524.2 Volatile Organics + TICs (JPL Special list)	YES
TurMet for 200.7/200.8 TurMet	NO

We assert that the results reported here relate only to the samples listed in this report.

Sample Receipt Comments:

The following discrepancies were noted in association with the receipt of these samples.

Two of two volatiles vials received for TB-08-05/05/08 contained air bubbles more than ¼ of an inch in size.

All samples submitted for pH analysis were received after the analytical holding time had expired.

GENERAL REMARKS ON ORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

Manual Integrations:

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

Holding Time Compliance:

Volatile Organic Compounds:

The holding time is 14 days calculated from date of collection in both soil and water samples. All samples were analyzed within holding time.

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Seattle, WA 98108

Volatiles Fraction:

Quality Control Analysis:

MS/MSD analyses were not performed due to insufficient sample volume. Except for cis-1,3-dichloropropene, which recovered high, all spiking analytes in the blank spike analysis recovered within control limits. Because cis-1,3-dichloropropene was not detected in any of the associated samples, no further action was taken.

All other quality control parameters were met.

GENERAL REMARKS ON INORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

ICP Metals:

On the first timed and dated page of each ICP run, the data to be reported or rejected will be tabulated for that run.

SPECIFIC REMARKS ON INORGANIC ANALYSES:

Holding Time Compliance:

Pace calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None
Chloride	28 days	None
Sulfate	28 days	None
Nitrate + Nitrite	28 days	None

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Nitrate	48 hours	None
Nitrite	48 hours	None
Ortho phosphorus	48 hours	None
Alkalinity	14 days	None
Total Dissolved Solids	7 days	None
pH	15 minutes	All samples

ICP Metals:

For the run sequence R028697, the ICV exceeded the upper control limit for potassium. All samples contained concentrations of potassium that were less than the CRDL. Quality control data for potassium were reported and were within control limits. No corrective action was required. Data have not been flagged for this event.

ICP-MS Metals:

No comments.

Miscellaneous Inorganics:

No comment.

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ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
 - J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
 - T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
 - E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
 - P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
 - C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
 - ~ This result has been identified as non-primary based on the analyst's professional judgment.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

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INORGANIC ANALYSES:

- J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.
 - E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.
 - N Spiked sample recovery not within control limits.
 - * Duplicate analysis not within control limits.
 - Z Denotes data deemed unusable by the analyst.
- CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

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RELEASE OF DATA

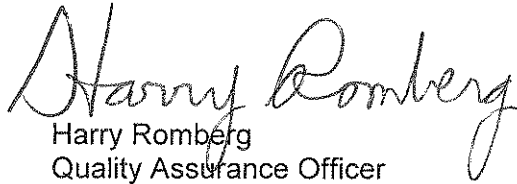
Pace Analytical Services, Inc. certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,


for
Kara Godineaux
Project Manager

6/18/08
(DATE)


Harry Romberg
Quality Assurance Officer

6/18/08
(DATE)

HOW TO CONTACT US:

All Pace Analytical Services, Inc. staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

REQUESTS FOR DUPLICATE COPIES:

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Pace will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

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ATTACHMENT A

Chain-of-Custody Copies

PACE ANALYTICAL SERVICES, INC. - SAMPLE CONFIRMATION LOG

Sample ID (SDG-#)	VTSR	Collected On	Client ID	150.1 PH	160.1 Total Dissolved Solids	200.7 K, Na, Mg, Ca, Fe	200.8 As, Cr, Pb	300 Anions Cl and SO4	310.1M Carb./Bicarb. Alkalinity	314.0 Perchlorate	353.2 Nitrate (as N) by Calc./water	353.2 Nitrate + Nitrite (as N), Water	354.1 Nitrite (as N), Water	524.2 Volatile Organics + TICs (JPL Special list)	TurMet for 200.7/200.8 TurMet
WD JPL105-001	05/06/2008 08:35 AM	05/05/2008 08:15 AM	MW-18-5	A-	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
WD JPL105-002	05/06/2008 08:35 AM	05/05/2008 08:55 AM	MW-18-4	A-	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
WD JPL105-003	05/06/2008 08:35 AM	05/05/2008 09:33 AM	MW-18-3	A-	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
WD JPL105-004	05/06/2008 08:35 AM	05/05/2008 10:13 AM	MW-18-2	A-	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
WD JPL105-005	05/06/2008 08:35 AM	05/05/2008 10:59 AM	MW-18-1	A-	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
WD JPL105-006	05/06/2008 08:35 AM	05/05/2008 10:39 AM	EB-08-05/05/08	A-	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
WD JPL105-007	05/06/2008 08:35 AM	05/05/2008 12:00 AM	DUPE-2-2008	A-	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
WD JPL105-008	05/06/2008 08:35 AM	05/05/2008 12:00 AM	TB-08-05/05/08											IN	IN

Approved By:

On:

Notes: Samples identified with a "*" Client has requested QC for

LEGEND: -:Started , +:Completed , IN:Logged In , P:Preparation , A:Analysis , X:Cancelled, PL:Pre-logged

Matrices: Water=WD FORM LTL-PM-8.0

Supplemental Sample Receipt Log
Pace Analytical Services, Inc.

SDG: JPL105
Cooler: AAP830
Temperatures: 2.7
COC #: 46067

Sample	Bottle #	Bottle Description	pH	Bubbles
JPL105-001	0001	1000 mL cylinder, poly	7	N/A
	0002	250 ml cylinder, poly, H2SO4	<2	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	500 ml cylinder, poly, HNO3	<2	N/A
JPL105-002	0001	1000 mL cylinder, poly	7	N/A
	0002	250 ml cylinder, poly, H2SO4	<2	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	500 ml cylinder, poly, HNO3	<2	N/A
JPL105-003	0001	1000 mL cylinder, poly	7	N/A
	0002	250 ml cylinder, poly, H2SO4	<2	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	500 ml cylinder, poly, HNO3	<2	N/A
JPL105-004	0001	1000 mL cylinder, poly	7	N/A
	0002	250 ml cylinder, poly, H2SO4	<2	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	500 ml cylinder, poly, HNO3	<2	N/A
JPL105-005	0001	1000 mL cylinder, poly	7	N/A
	0002	250 ml cylinder, poly, H2SO4	<2	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	500 ml cylinder, poly, HNO3	<2	N/A
JPL105-006	0001	1000 mL cylinder, poly	7	N/A

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2

Base Preserved pH pH must be greater than 12

NC Not Checked for pH

Supplemental Sample Receipt Log
Pace Analytical Services, Inc.

SDG: JPL105
Cooler: AAP830
Temperatures: 2.7
COC #: 46067

Sample	Bottle #	Bottle Description	pH	Bubbles
	0002	250 ml cylinder, poly, H2SO4	<2	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	500 ml cylinder, poly, HNO3	<2	N/A
JPL105-007	0001	1000 mL cylinder, poly	7	N/A
	0002	250 ml cylinder, poly, H2SO4	<2	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	500 ml cylinder, poly, HNO3	<2	N/A
JPL105-008	0001	40 ml OTWS, clear glass, HCl	N/C	> 1/4
	0002	40 ml OTWS, clear glass, HCl	N/C	> 1/4

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2

Base Preserved pH pH must be greater than 12

NC Not Checked for pH

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ATTACHMENT B

Index

Pace Analytical Services, Inc.

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Battelle

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Completed and checked by: Judy Ecklund Date: 6/18/08

QC SUMMARY

SDG JPL105

VOLATILES ANALYSIS

2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL105

Run Sequence: R027971

Level: (LOW/MED) NONE

CLIENT SAMPLE NUMBER	SMC1 (DCA) #	SMC2 (BFB) #	SMC3 (TOL) #	SMC4 () #	TOT OUT
(JPL105-007) DUPE-2-2Q08	104	112	99		0
(JPL105-006) EB-08-05/05/08	104	109	98		0
(JPL105-005) MW-18-1	105	111	99		0
(JPL105-004) MW-18-2	105	111	99		0
(JPL105-003) MW-18-3	102	113	99		0
(JPL105-002) MW-18-4	103	112	100		0
(JPL105-001) MW-18-5	103	113	101		0
(JPL105-008) TB-08-05/05/08	100	113	101		0
(B050708MVOWY1) B050708MVOWY1	99	118	100		0
(S050708MVOWY1) S050708MVOWY1	95	121	101		0

	QC LIMITS
SMC1 (DCA) = 1,2-Dichloroethane-d4	60-140
SMC2 (BFB) = 4-Bromofluorobenzene	60-140
SMC3 (TOL) = Toluene-d8	60-140
SMC4 () =	

Column to be used to flag recovery values
* Values outside of contract required QC limits

3B
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 BS Run Sequence: R027971 SDG No.: JPL105
 BS Lab Sample ID: S050708MVOWY1
 Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
Dichlorodifluoromethane	50.0	38.18	76		60-140
Chloromethane	50.0	35.77	72		60-140
Vinyl chloride	50.0	38.73	77		60-140
Bromomethane	50.0	39.46	79		60-140
Chloroethane	50.0	39.93	80		60-140
Trichlorofluoromethane	50.0	42	84		60-140
1,1-Dichloroethene	50.0	42.67	85		60-140
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	39.57	79		60-140
Methylene chloride	50.0	40.52	81		60-140
Methyl tert-butyl ether	50.0	46.34	93		60-140
trans-1,2-Dichloroethene	50.0	39.45	79		60-140
1,1-Dichloroethane	50.0	39.21	78		60-140
2,2-Dichloropropane	50.0	41.29	83		60-140
cis-1,2-Dichloroethene	50.0	42	84		60-140
2-Butanone	50.0	64.36	129		60-140
Bromochloromethane	50.0	42.88	86		60-140
Chloroform	50.0	39.4	79		60-140
1,1,1-Trichloroethane	50.0	41.1	82		60-140
Carbon tetrachloride	50.0	43.98	88		60-140
1,1-Dichloropropene	50.0	49.52	99		60-140
Benzene	50.0	44.39	89		60-140
1,2-Dichloroethane	50.0	46.05	92		60-140
Trichloroethene	50.0	45.1	90		60-140
1,2-Dichloropropane	50.0	47.98	96		60-140
Dibromomethane	50.0	48.25	97		60-140
Bromodichloromethane	50.0	49.33	99		60-140
cis-1,3-Dichloropropene	50.0	74.09	148	*	60-140
4-Methyl-2-pentanone	50.0	62.18	124		60-140
Toluene	50.0	48.62	97		60-140
trans-1,3-Dichloropropene	50.0	58.48	117		60-140
1,1,2-Trichloroethane	50.0	49.82	100		60-140
Tetrachloroethene	50.0	45.78	92		60-140
1,3-Dichloropropane	50.0	55.07	110		60-140
Dibromochloromethane	50.0	54.39	109		60-140

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

Spike Recovery: 1 out of 63 outside limits

COMMENTS:

Date Printed: 5/20/2008 15:03

3B
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 BS Run Sequence: R027971 SDG No.: JPL105
 BS Lab Sample ID: S050708MVOWY1
 Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
1,2-Dibromoethane	50.0	55.45	111		60-140
Chlorobenzene	50.0	46.29	93		60-140
Ethylbenzene	50.0	46.56	93		60-140
1,1,1,2-Tetrachloroethane	50.0	40.83	82		60-140
m,p-Xylene	100	94.82	95		60-140
o-Xylene	50.0	44.32	89		60-140
Styrene	50.0	49.31	99		60-140
Bromoform	50.0	49.74	99		60-140
Isopropylbenzene	50.0	45.89	92		60-140
1,1,2,2-Tetrachloroethane	50.0	50.96	102		60-140
n-Propylbenzene	50.0	54.74	109		60-140
Bromobenzene	50.0	53.92	108		60-140
1,2,3-Trichloropropane	50.0	54.92	110		60-140
2-Chlorotoluene	50.0	50.93	102		60-140
1,3,5-Trimethylbenzene	50.0	48.94	98		60-140
4-Chlorotoluene	50.0	53.3	107		60-140
tert-Butylbenzene	50.0	49.86	100		60-140
1,2,4-Trimethylbenzene	50.0	49.17	98		60-140
sec-Butylbenzene	50.0	49.42	99		60-140
4-Isopropyltoluene	50.0	53.89	108		60-140
1,3-Dichlorobenzene	50.0	45.95	92		60-140
1,4-Dichlorobenzene	50.0	44.97	90		60-140
n-Butylbenzene	50.0	49.83	100		60-140
1,2-Dichlorobenzene	50.0	43.15	86		60-140
1,2-Dibromo-3-chloropropane	50.0	46.27	93		60-140
1,2,4-Trichlorobenzene	50.0	44.38	89		60-140
Hexachlorobutadiene	50.0	42.98	86		60-140
Naphthalene	50.0	47.88	96		60-140
1,2,3-Trichlorobenzene	50.0	41.9	84		60-140

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

Spike Recovery: 1 out of 63 outside limits

COMMENTS:

Date Printed: 5/20/2008 15:03

4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B050708MVOWY1

Lab Name Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL105

Lab File ID: Y0507022.D

Lab Sample ID: B050708MVOWY1

Date Analyzed: 05/07/2008

Time Analyzed: 17:09

GC Column: ZB-624 20m ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: 5973Y

Matrix: Water

	CLIENT SAMPLE NO.	LAB SAMPLE ID.	LAB FILE ID.	DATE ANALYZED	TIME ANALYZED	RUN SEQUENCE
01	S050708MVOWY1	S050708MVOWY1	Y0507019.D	05/07/2008	15:53	R027971
02	TB-08-05/05/08	JPL105-008	Y0507024.D	05/07/2008	17:59	R027971
03	MW-18-5	JPL105-001	Y0507032.D	05/07/2008	21:16	R027971
04	MW-18-4	JPL105-002	Y0507033.D	05/07/2008	21:41	R027971
05	MW-18-3	JPL105-003	Y0507034.D	05/07/2008	22:06	R027971
06	MW-18-2	JPL105-004	Y0507035.D	05/07/2008	22:31	R027971
07	MW-18-1	JPL105-005	Y0507036.D	05/07/2008	22:55	R027971
08	EB-08-05/05/08	JPL105-006	Y0507037.D	05/07/2008	23:20	R027971
09	DUPE-2-2Q08	JPL105-007	Y0507038.D	05/07/2008	23:45	R027971
10						
11						
12						
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30						

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

BFBY5

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 Run Sequence: CAL1310 SDG No.: JPL105
 Lab File ID: Y0414036.D BFB Injection Date: 04/14/2008
 Instrument ID: 5973Y BFB Injection Time: 21:43
 GC Column DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	17.8
75	30% to 60% of mass 95	48.1
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	6.8
173	less than 2% of mass 174	0()1
174	greater than 50% of mass 95	99.4
175	5% to 9% of mass 17	7.2()1
176	greater than 95%, but less than 101% of mass 174	95.4()1
177	5% to 9% of mass 176	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 SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0.3	VSTD0.3	Y0414037.D	04/14/2008	22:08
02	VSTD0.5	VSTD0.5	Y0414038.D	04/14/2008	22:33
03	VSTD001	VSTD001	Y0414039.D	04/14/2008	22:58
04	VSTD005	VSTD005	Y0414040.D	04/14/2008	23:22
05	VSTD010	VSTD010	Y0414041.D	04/14/2008	23:47
06	VSTD050	VSTD050	Y0414042.D	04/15/2008	00:12
07	VSTD100	VSTD100	Y0414043.D	04/15/2008	00:36
08	VSTD200	VSTD200	Y0414044.D	04/15/2008	01:01
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

BFBY1

Lab Name: Pace Analytical Services Contract: _____
 Run Sequence: R027335 SDG No.: NES013 *JPLH*
 Lab File ID: Y0415011.D BFB Injection Date: 04/15/2008
 Instrument ID: 5973Y BFB Injection Time: 09:55
 GC Column DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	18
75	30% to 60% of mass 95	48.6
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	6.6
173	less than 2% of mass 174	0()1
174	greater than 50% of mass 95	94.8
175	5% to 9% of mass 17	8.3()1
176	greater than 95%, but less than 101% of mass 174	99.1()1
177	5% to 9% of mass 176	6.1()2

1 - Value is %mass 174

2 - Value is %mass 176

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	<i>W</i> S041508MVOWY2	S041508MVOWY2	Y0415015.D	04/15/2008	11:39
02	<i>JPLH</i>				
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

CLIENT SAMPLE NO.

VSTD050Y6/BFBY7

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 Run Sequence: R027971 SDG No.: JPL105
 Lab File ID: Y0507018a.d BFB Injection Date: 05/07/2008
 Instrument ID: 5973Y BFB Injection Time: 15:27
 GC Column ZB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	17.1
75	30% to 60% of mass 95	45.3
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	6.8
173	less than 2% of mass 174	0()1
174	greater than 50% of mass 95	101
175	5% to 9% of mass 17	7.5()1
176	greater than 95%, but less than 101% of mass 174	96.5()1
177	5% to 9% of mass 176	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 SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050Y6	VSTD050Y6	Y0507018.D	05/07/2008	15:27
02	S050708MVOWY1	S050708MVOWY1	Y0507019.D	05/07/2008	15:53
03	B050708MVOWY1	B050708MVOWY1	Y0507022.D	05/07/2008	17:09
04	TB-08-05/05/08	JPL105-008	Y0507024.D	05/07/2008	17:59
05	MW-18-5	JPL105-001	Y0507032.D	05/07/2008	21:16
06	MW-18-4	JPL105-002	Y0507033.D	05/07/2008	21:41
07	MW-18-3	JPL105-003	Y0507034.D	05/07/2008	22:06
08	MW-18-2	JPL105-004	Y0507035.D	05/07/2008	22:31
09	MW-18-1	JPL105-005	Y0507036.D	05/07/2008	22:55
10	EB-08-05/05/08	JPL105-006	Y0507037.D	05/07/2008	23:20
11	DUPE-2-2Q08	JPL105-007	Y0507038.D	05/07/2008	23:45
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitoring
 Run Sequence: R027971 SDG No.: JPL105
 Client Sample No. (VSTD050##): VSTD050Y6 Date Analyzed: 05/07/2008
 Lab File ID (Standard): Y0507018.D Time Analyzed: 15:27
 Instrument ID: 5973Y Heated Purge: (Y/N) N
 GC Column: ZB-624 20m ID: 0.18 (mm)

	IS1 (FBZ) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	593186	8.23	300549	11.68	344208	13.61
UPPER LIMIT	1186372	8.28	601098	11.73	688416	13.66
LOWER LIMIT	296593	8.18	150274.5	11.63	172104	13.56
CLIENT SAMPLE NO.						
01 S050708MVOWY1	582761	8.23	299914	11.68	342454	13.61
02 B050708MVOWY1	582673	8.23	290232	11.68	351278	13.61
03 TB-08-05/05/08	550601	8.23	264675	11.68	313701	13.61
04 MW-18-5	509249	8.23	250122	11.68	304784	13.61
05 MW-18-4	509526	8.23	248657	11.68	309736	13.61
06 MW-18-3	508067	8.23	252272	11.68	306666	13.61
07 MW-18-2	475464	8.23	240966	11.68	296741	13.61
08 MW-18-1	503078	8.23	251301	11.68	307622	13.61
09 EB-08-05/05/08	470337	8.23	239319	11.68	299783	13.61
10 DUPE-2-2Q08	498098	8.23	247602	11.68	305156	13.61
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (FBZ) = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

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

Date Printed: 5/20/2008 15:06

SAMPLE DATA

SDG JPL105

VOLATILES ANALYSIS

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-5

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-001
 Lab File ID: Y0507032.D
 Date Collected: 05/05/2008
 Date/Time Analyzed: 05/07/2008 21:16
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-5

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-001
 Lab File ID: Y0507032.D
 Date Collected: 05/05/2008
 Date/Time Analyzed: 05/07/2008 21:16
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-5

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL105

Run Sequence: R027971

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL105-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0507032.D

Level: (LOW/MED) _____

Date Collected: 05/05/2008

% Moisture: not dec. _____

Date/Time Analyzed: 05/07/2008 21:16

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Heated Purge: (Y/N) N

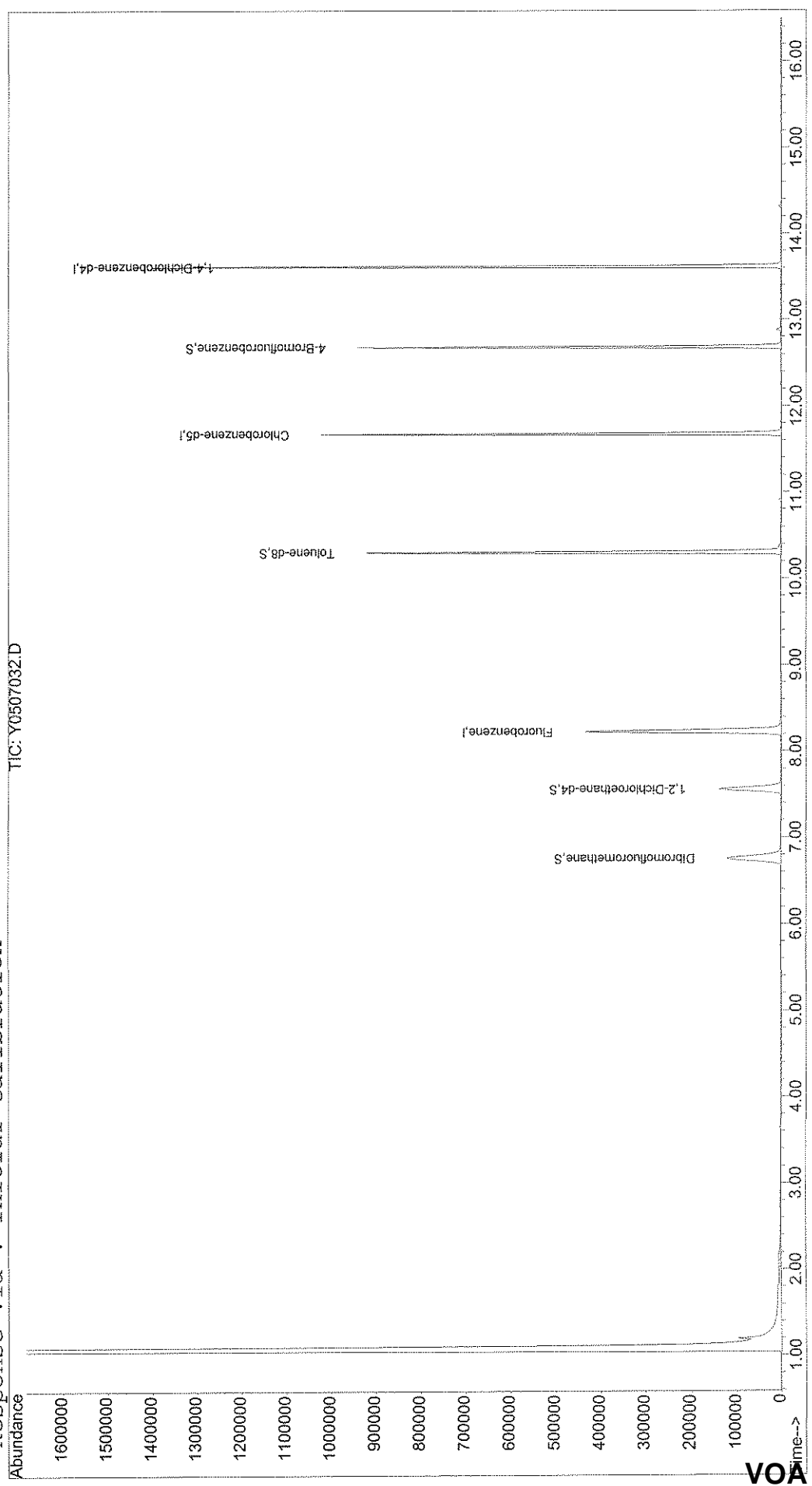
CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507032.D
Acq On : 7 May 2008 21:16
Sample : JPL105-001
Misc : #5 5mL+IS/SS(524)
MS Integration Params: rteint.p
Quant Time: May 20 14:46 2008
Vial: 15
Operator: DGA
Inst : Yoda
Multiplr: 1.00
Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260/524.2/624 - 5ML Calibration 5973Y
Last Update : Fri May 16 11:42:02 2008
Response via : Initial Calibration



VOA - 14

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507032.D
 Acq On : 7 May 2008 21:16
 Sample : JPL105-001
 Misc : #5 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 20 14:46 2008

Vial: 15
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	509249	50.00	ug/l	0.00 NA%
54) Chlorobenzene-d5	11.68	82	250122	50.00	ug/l	0.00 NA%
74) 1,4-Dichlorobenzene-d4	13.61	152	304784	50.00	ug/l	0.00 NA%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	158915	47.70	ug/l	0.00
Spiked Amount	50.000	Range 85 - 115	Recovery	=	95.40%	
40) 1,2-Dichloroethane-d4	7.56	65	163707	51.45	ug/l	0.00
Spiked Amount	50.000	Range 70 - 120	Recovery	=	102.90%	
55) Toluene-d8	10.30	98	547456	50.55	ug/l	0.00
Spiked Amount	50.000	Range 85 - 120	Recovery	=	101.10%	
76) 4-Bromofluorobenzene	12.68	95	224614	56.69	ug/l	0.00
Spiked Amount	50.000	Range 75 - 120	Recovery	=	113.38%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.	
3) Chloromethane	1.36	50	662	N.D.	
4) Vinyl Chloride	0.00	62	0	N.D.	
5) Bromomethane	0.00	96	0	N.D.	
6) Chloroethane	0.00	64	0	N.D.	
7) Trichlorofluoromethane	0.00	101	0	N.D.	
8) Acrolein	0.00	56	0	N.D.	
9) 1,1-Dichloroethene	0.00	96	0	N.D.	
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.	
11) Acetone	0.00	43	0	N.D.	d
12) Iodomethane	0.00	142	0	N.D.	
13) Bromoethane	0.00	108	0	N.D.	
14) Carbon Disulfide	2.88	76	615	N.D.	
15) Allyl chloride	0.00	76	0	N.D.	
16) Acetonitrile	0.00	40	0	N.D.	d
17) Methyl Acetate	0.00	43	0	N.D.	
18) Methylene Chloride	3.28	84	56	Below Cal	# 64
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.	
20) Acrylonitrile	0.00	53	0	N.D.	d
21) t-butyl alcohol	0.00	59	0	N.D.	
22) Methyl tert-butyl ether	0.00	73	0	N.D.	

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

[Handwritten Signature]
 Page 1
 VOA - 15

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507032.D
 Acq On : 7 May 2008 21:16
 Sample : JPL105-001
 Misc : #5 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 20 14:46 2008

Vial: 15
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	5.56	96	57		N.D.	
30) 2-Butanone	0.00	43	0		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	6.22	41	80		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	0.00	78	0		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	9.04	83	132		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	9.26	93	61		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.37	92	252		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0		N.D.	
60) Tetrachloroethene	10.92	166	107		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	0.00	43	0		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	91		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0507032.D Y8260W.M Tue May 20 14:46:18 2008

J. Stank
 Page 2
VOA - 16

Quantitation Report

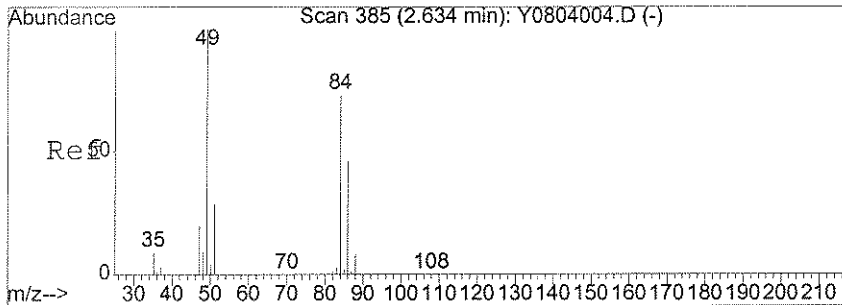
Data File : X:\MSVOA\YODA\050708\Y0507032.D
 Acq On : 7 May 2008 21:16
 Sample : JPL105-001
 Misc : #5 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 20 14:46 2008

Vial: 15
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

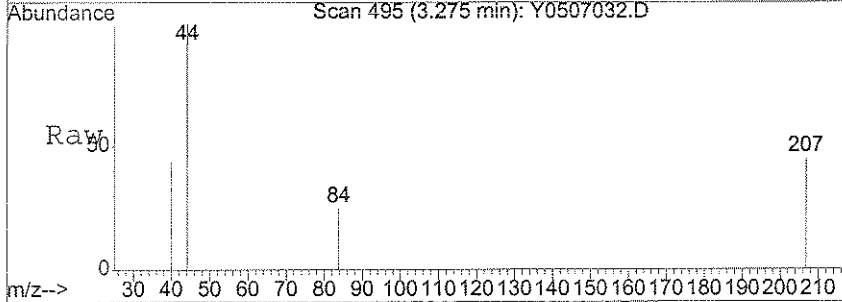
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.82	91	592		N.D.	
69) m,p-Xylene	11.81	106	128		N.D.	
70) o-xylene	12.25	106	59		N.D.	
71) Styrene	12.27	104	987		N.D.	
72) Bromoform	12.69	173	105		N.D.	
73) Isopropylbenzene	12.55	105	127		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	0.00	156	0		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	12.89	120	80		N.D.	
81) 2-Chlorotoluene	12.96	91	64		N.D.	
82) 4-Chlorotoluene	13.05	91	257		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	179		N.D.	
88) 4-Isopropyltoluene	13.59	119	464		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	388		N.D.	
90) 1,2-Dichlorobenzene	13.92	146	173		N.D.	
91) n-Butylbenzene	13.91	91	703		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.33	75	58		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	291		N.D.	
94) Hexachlorobutadiene	15.31	225	291		N.D.	
95) Naphthalene	15.36	128	308		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	241		N.D.	

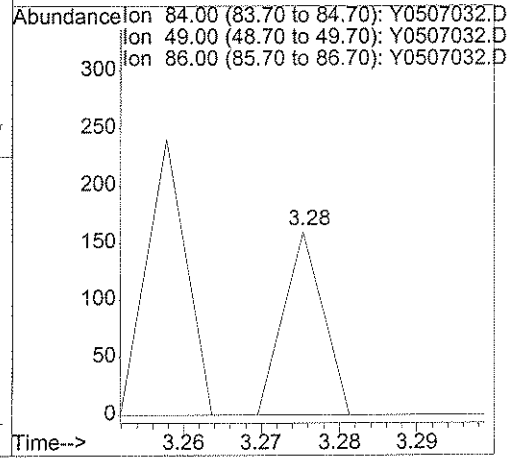
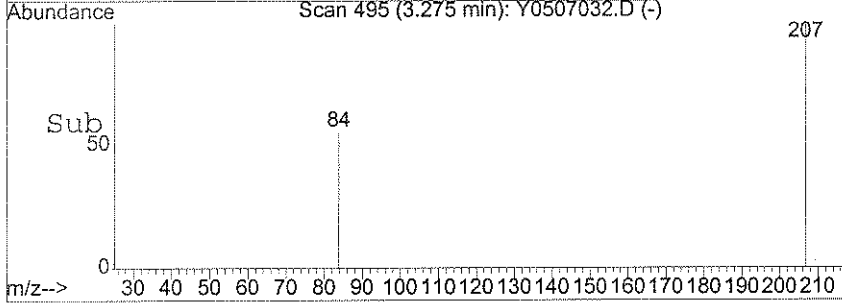


#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.28 min Scan# 495
 Delta R.T. 0.01 min
 Lab File: Y0507032.D
 Acq: 7 May 2008 21:16

Tgt Ion	Resp	Lower	Upper
84	56		
49	151.8	112.5	152.5
86	0.0	39.5	79.5#



Abundance Ion 84.00 (83.70 to 84.70): Y0507032.D
 Ion 49.00 (48.70 to 49.70): Y0507032.D
 Ion 86.00 (85.70 to 86.70): Y0507032.D



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-4

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-002
 Lab File ID: Y0507033.D
 Date Collected: 05/05/2008
 Date/Time Analyzed: 05/07/2008 21:41
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	1.6	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	8.1	
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.97	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-4

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL105

Run Sequence: R027971

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL105-002

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0507033.D

Level: (LOW/MED) _____

Date Collected: 05/05/2008

% Moisture: not dec. _____

Date/Time Analyzed: 05/07/2008 21:41

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.41	J
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-4

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-002
 Lab File ID: Y0507033.D
 Date Collected: 05/05/2008
 Date/Time Analyzed: 05/07/2008 21:41
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

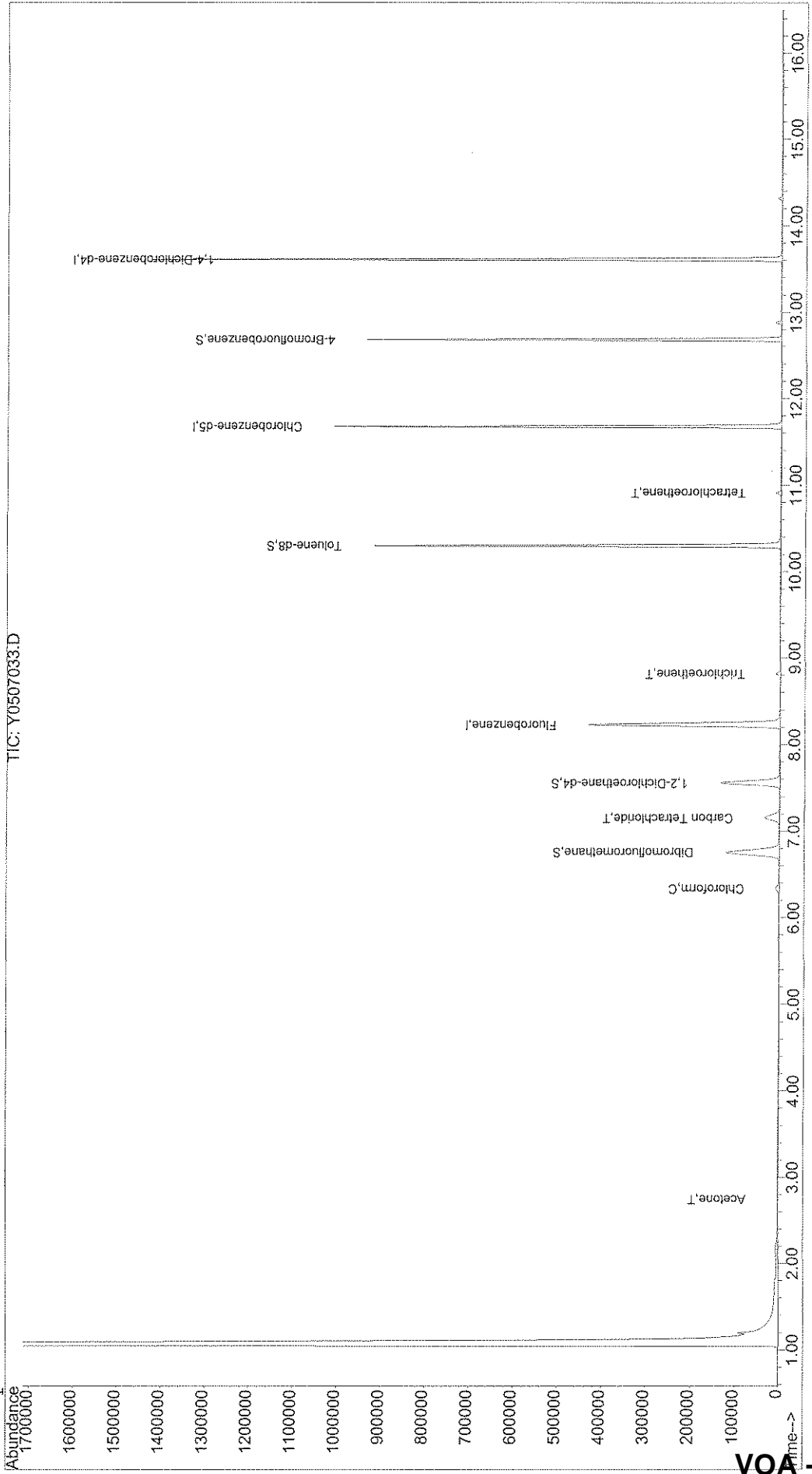
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507033.D Vial: 16
Acq On : 7 May 2008 21:41 Operator: DGA
Sample : JPL105-002 Inst : yoda
Misc : #5 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 9 11:51 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260 - 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507033.D
 Acq On : 7 May 2008 21:41
 Sample : JPL105-002
 Misc : #5 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 11:51 2008

Vial: 16
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\050608\Y0506014.D (6 May 2008 12:59)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)	Rcv (Ar)
1) Fluorobenzene	8.23	96	509526	50.00	ug/l	0.00	99.78%
54) Chlorobenzene-d5	11.68	82	248657	50.00	ug/l	0.00	101.66%
74) 1,4-Dichlorobenzene-d4	13.61	152	309736	50.00	ug/l	0.00	88.38%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	158806	47.65	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	95.30%	
40) 1,2-Dichloroethane-d4	7.56	65	164244	51.59	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.18%	
55) Toluene-d8	10.30	98	538060	49.97	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	99.94%	
76) 4-Bromofluorobenzene	12.68	95	225072	55.90	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	111.80%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	582	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	2.68	101	138	N.D.		
11) Acetone	2.75	43	1274	1.05 ug/l	#	67
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	946	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	3.09	43	61	N.D.		
18) Methylene Chloride	3.29	84	153	Below Cal	#	18
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	3.65	53	86	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

(#) = qualifier out of range (m) = manual integration
 Y0507033.D Y8260W.M Fri May 09 11:51:53 2008

J. Stahly
 Page 1
VOA - 23

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507033.D
 Acq On : 7 May 2008 21:41
 Sample : JPL105-002
 Misc : #5 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 11:51 2008

Vial: 16
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	4.46	45	56		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	5.61	96	61		N.D.	
30) 2-Butanone	5.54	43	201		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.34	83	12356	1.61	ug/l	98
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	7.15	117	44003	8.10	ug/l	100
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.65	78	139		N.D.	
42) 1,2-Dichloroethane	7.56	62	55		N.D.	
43) Isobutanol	0.00	43	0		N.D. d	
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	8.82	130	3958	0.97	ug/l	94
46) Methylcyclohexane	9.05	83	171		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	10.26	43	216		N.D.	
56) Toluene	10.37	92	334		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0		N.D.	
60) Tetrachloroethene	10.92	166	1687	0.41	ug/l	92
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.03	43	154		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D. d	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	81		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D. d	
67) 1,1,1,2-Tetrachloroethane	11.78	131	56		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0507033.D Y8260W.M Fri May 09 11:51:53 2008

J. Smith

Quantitation Report

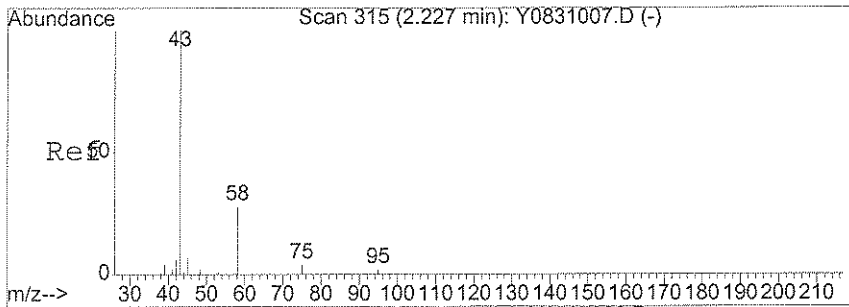
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 Acq On : 7 May 2008 21:41
 Sample : JPL105-002
 Misc : #5 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 11:51 2008

Vial: 16
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

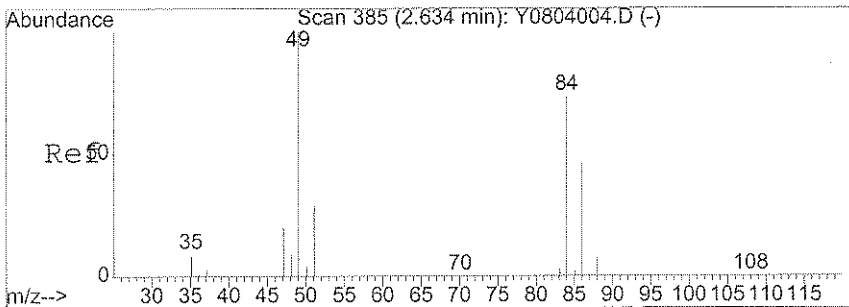
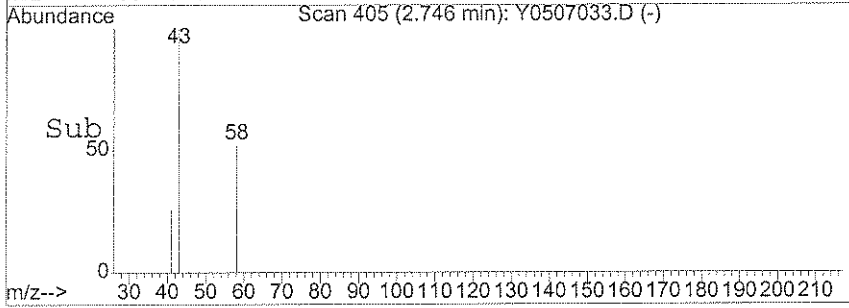
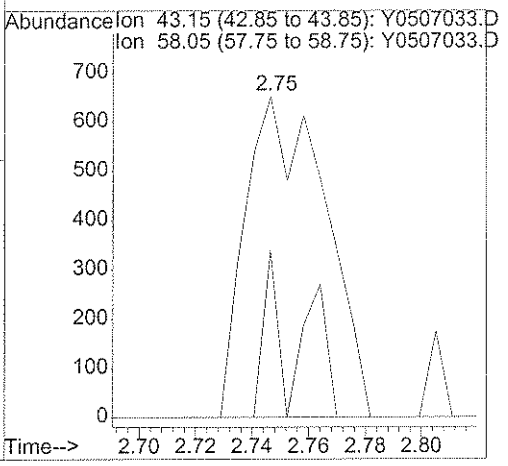
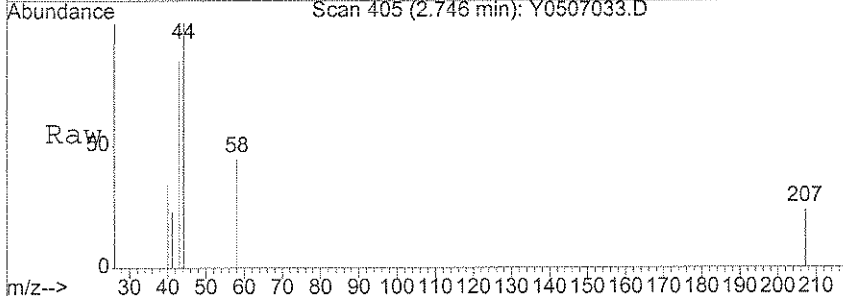
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	227		N.D.	
69) m,p-Xylene	11.91	106	283		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	12.25	104	71		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.56	105	166		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	79		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.67	83	77		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	12.91	120	79		N.D.	
81) 2-Chlorotoluene	12.96	91	88		N.D.	
82) 4-Chlorotoluene	13.05	91	313		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	64		N.D.	
88) 4-Isopropyltoluene	13.60	119	809		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	57		N.D.	
90) 1,2-Dichlorobenzene	13.93	146	95		N.D.	
91) n-Butylbenzene	13.91	91	728		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.30	75	61		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	509		N.D.	
94) Hexachlorobutadiene	15.31	225	236		N.D.	
95) Naphthalene	15.37	128	342		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	279		N.D.	



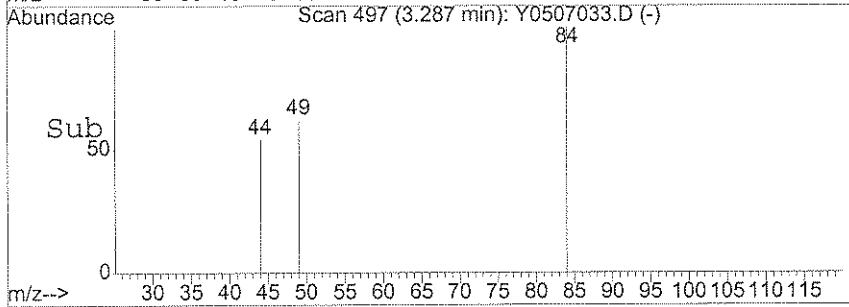
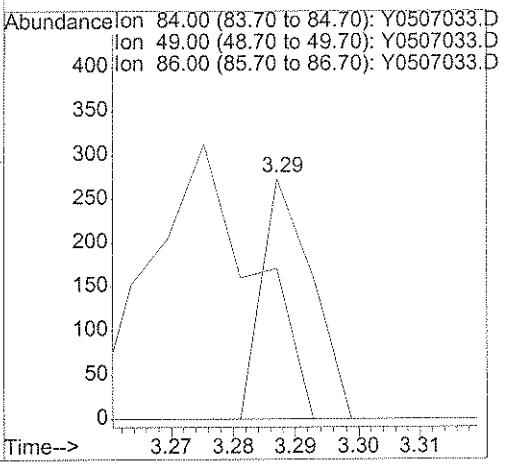
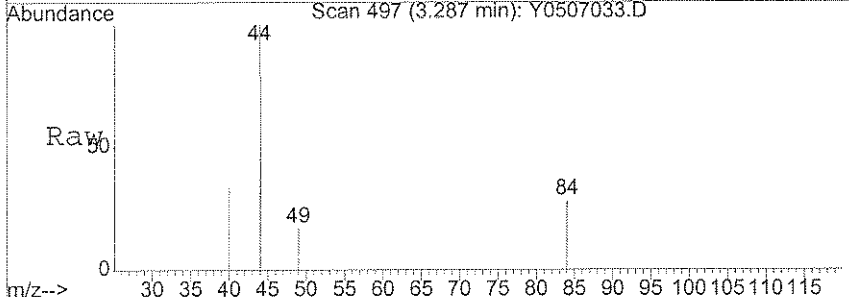
#11
 Acetone
 Concen: 1.05 ug/l
 RT: 2.75 min Scan# 405
 Delta R.T. 0.01 min
 Lab File: Y0507033.D
 Acq: 7 May 2008 21:41

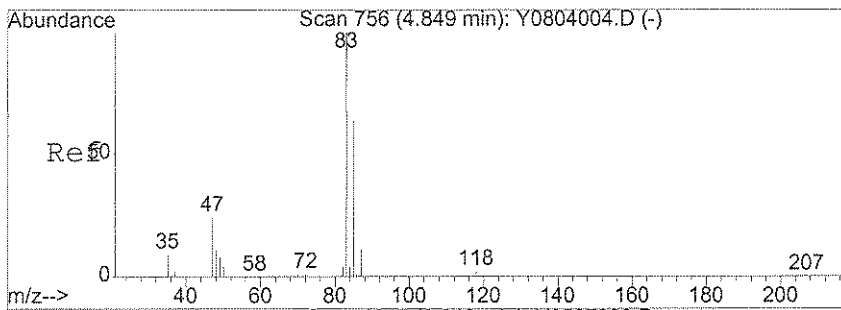
Tgt Ion	Resp	Lower	Upper
43	1274		
58	100	9.4	21.3
		31.9	



#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.29 min Scan# 497
 Delta R.T. 0.02 min
 Lab File: Y0507033.D
 Acq: 7 May 2008 21:41

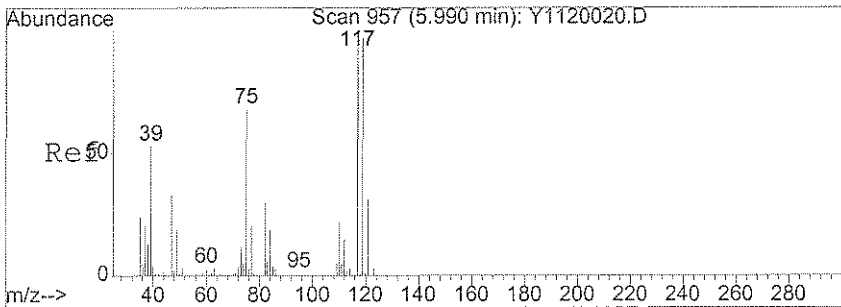
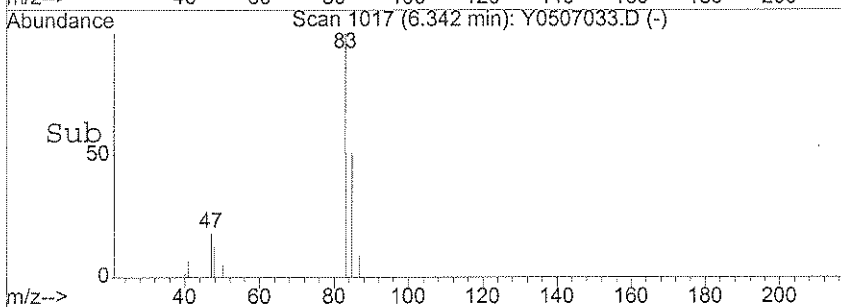
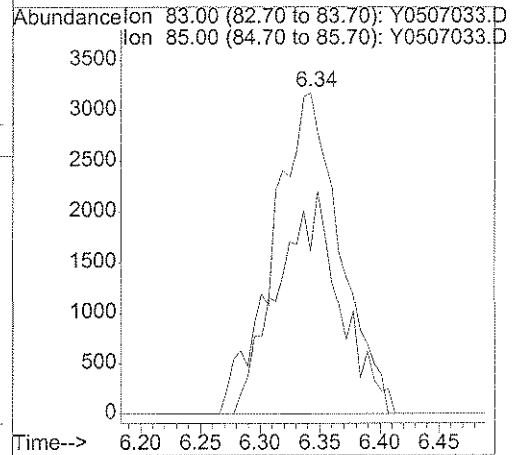
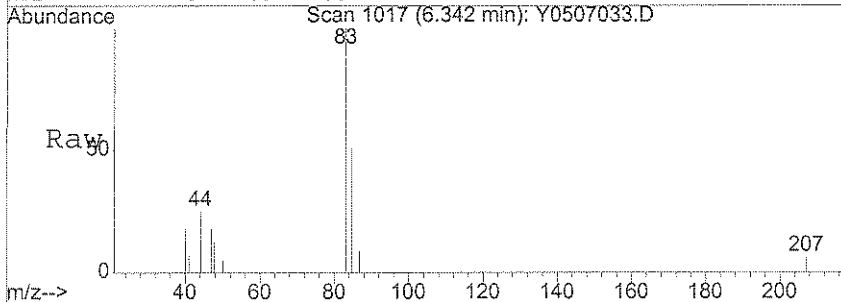
Tgt Ion	Resp	Lower	Upper
84	153		
49	100	230.7	112.5
86	0.0	39.5	79.5





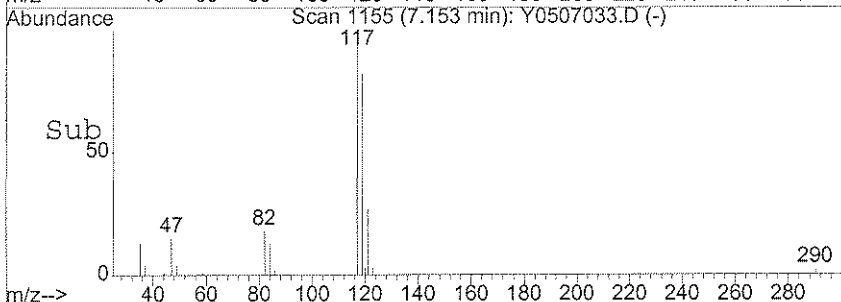
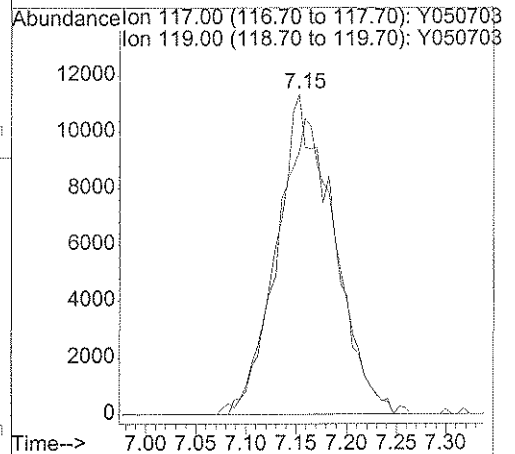
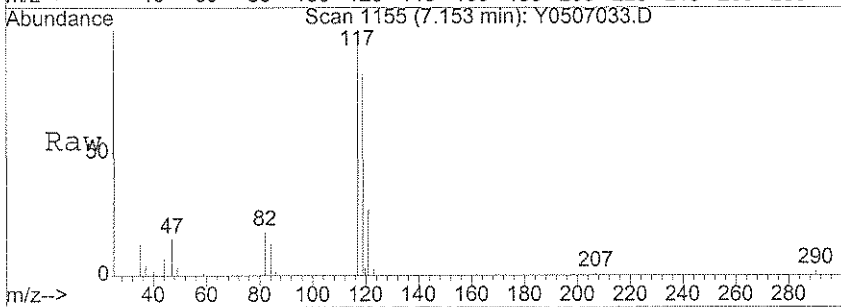
#34
 Chloroform
 Concen: 1.61 ug/l
 RT: 6.34 min Scan# 1017
 Delta R.T. 0.01 min
 Lab File: Y0507033.D
 Acq: 7 May 2008 21:41

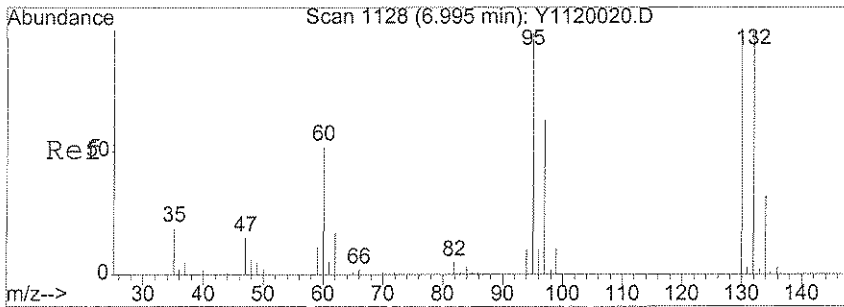
Tgt Ion: 83 Resp: 12356
 Ion Ratio Lower Upper
 83 100
 85 64.7 43.3 83.3



#38
 Carbon Tetrachloride
 Concen: 8.10 ug/l
 RT: 7.15 min Scan# 1155
 Delta R.T. -0.01 min
 Lab File: Y0507033.D
 Acq: 7 May 2008 21:41

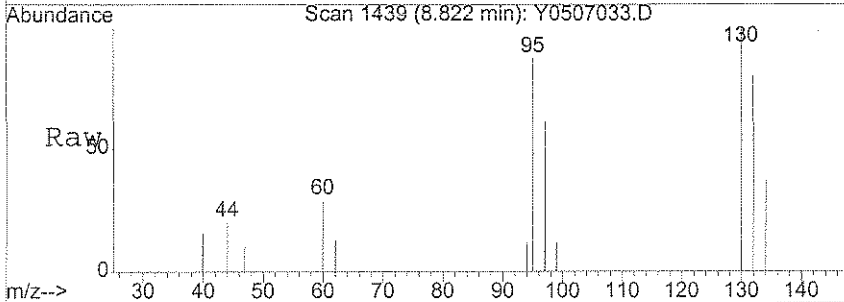
Tgt Ion: 117 Resp: 44003
 Ion Ratio Lower Upper
 117 100
 119 98.5 78.2 118.2



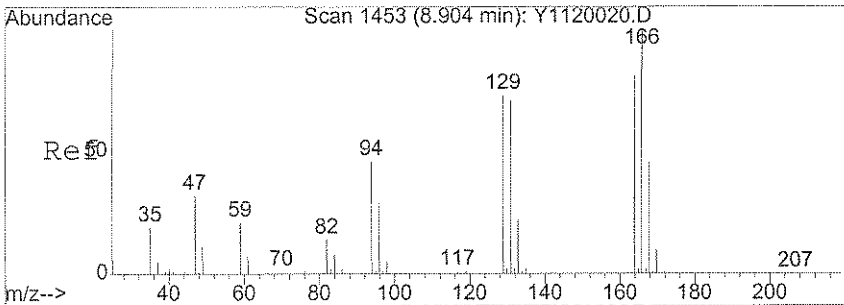
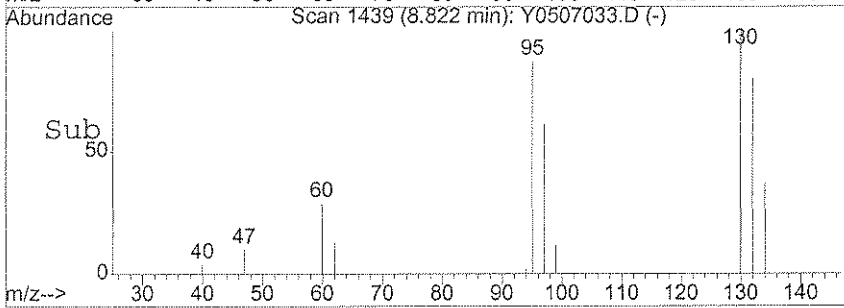
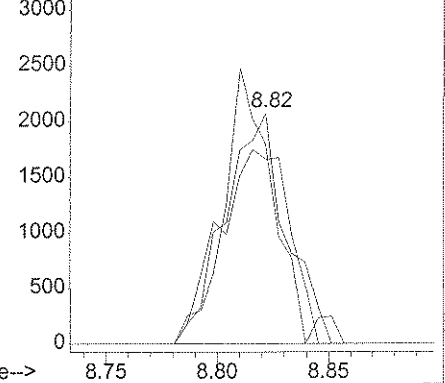


#45
 Trichloroethene
 Concen: 0.97 ug/l
 RT: 8.82 min Scan# 1439
 Delta R.T. 0.01 min
 Lab File: Y0507033.D
 Acq: 7 May 2008 21:41

Tgt Ion	Resp	Lower	Upper
130	100		
132	97.9	75.0	115.0
95	97.7	69.4	109.4

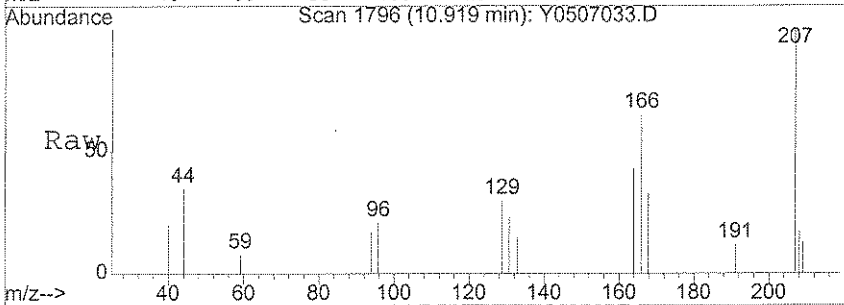


Abundance
 Ion 130.00 (129.70 to 130.70): Y050703
 Ion 132.00 (131.70 to 132.70): Y050703
 Ion 95.00 (94.70 to 95.70): Y0507033.D

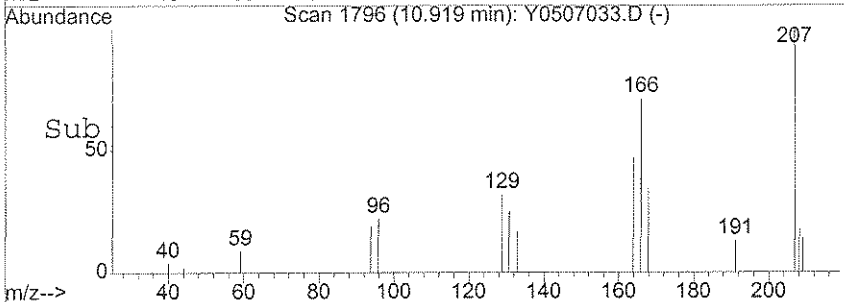
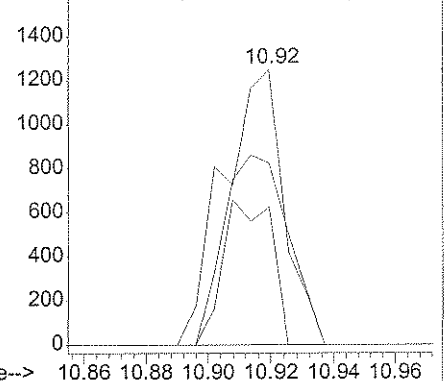


#60
 Tetrachloroethene
 Concen: 0.41 ug/l
 RT: 10.92 min Scan# 1796
 Delta R.T. 0.01 min
 Lab File: Y0507033.D
 Acq: 7 May 2008 21:41

Tgt Ion	Resp	Lower	Upper
166	100		
164	73.3	63.3	94.9
168	42.1	39.6	59.4



Abundance
 Ion 165.95 (165.65 to 166.65): Y050703
 Ion 163.95 (163.65 to 164.65): Y050703
 Ion 167.95 (167.65 to 168.65): Y050703



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-3

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-003
 Lab File ID: Y0507034.D
 Date Collected: 05/05/2008
 Date/Time Analyzed: 05/07/2008 22:06
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	1.4	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	8.5	
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.82	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-3

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-003
 Lab File ID: Y0507034.D
 Date Collected: 05/05/2008
 Date/Time Analyzed: 05/07/2008 22:06
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.28	J
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-3

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-003
 Lab File ID: Y0507034.D
 Date Collected: 05/05/2008
 Date/Time Analyzed: 05/07/2008 22:06
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

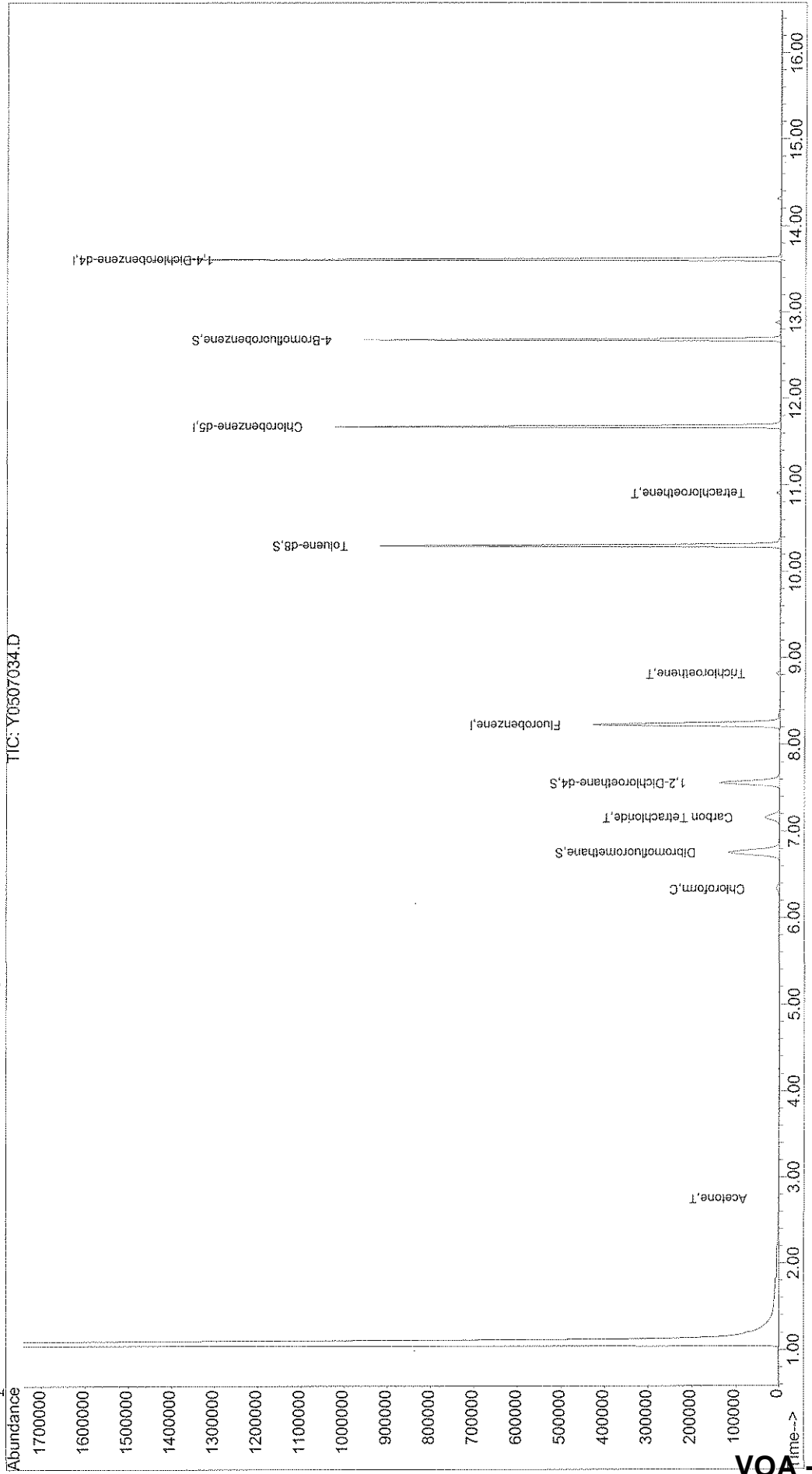
CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507034.D Vial: 17
Acq On : 7 May 2008 22:06 Operator: DGA
Sample : JPL105-003 Inst : Yoda
Misc : #5 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 9 11:53 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507034.D
 Acq On : 7 May 2008 22:06
 Sample : JPL105-003
 Misc : #5 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 11:53 2008

Vial: 17
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\050608\Y0506014.D (6 May 2008 12:59)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	508067	50.00	ug/l	0.00	99.50%
54) Chlorobenzene-d5	11.68	82	252272	50.00	ug/l	0.00	103.14%
74) 1,4-Dichlorobenzene-d4	13.61	152	306666	50.00	ug/l	0.00	87.50%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	158662	47.74	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	95.48%	
40) 1,2-Dichloroethane-d4	7.56	65	162284	51.12	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.24%	
55) Toluene-d8	10.30	98	538377	49.29	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	98.58%	
76) 4-Bromofluorobenzene	12.68	95	225834	56.65	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	113.30%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	756	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	2.72	96	55	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	2.71	101	391	N.D.		
11) Acetone	2.75	43	887	0.73 ug/l #	87	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	1122	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D. d		
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.27	84	55	Below Cal #	69	
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	3.70	73	55	N.D.		

(#) = qualifier out of range (m) = manual integration
 Y0507034.D Y8260W.M Fri May 09 11:53:22 2008

J. J. J.
 Page 1
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Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507034.D
 Acq On : 7 May 2008 22:06
 Sample : JPL105-003
 Misc : #5 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 11:53 2008

Vial: 17
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	5.63	43	125		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.33	83	10882	1.43	ug/l #	71
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	7.16	117	46126	8.52	ug/l	98
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.63	78	111		N.D.	
42) 1,2-Dichloroethane	7.71	62	60		N.D.	
43) Isobutanol	0.00	43	0		N.D. d	
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	8.82	130	3332	0.82	ug/l	91
46) Methylcyclohexane	9.06	83	112		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	9.49	83	59		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D. d	
56) Toluene	10.37	92	193		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0		N.D.	
60) Tetrachloroethene	10.91	166	1144	0.28	ug/l	96
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	0.00	43	0		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D. d	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	70		N.D.	
66) 1-Chlorohexane	11.72	91	59		N.D.	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0507034.D Y8260W.M Fri May 09 11:53:23 2008

J. S. / aln
 Page 2
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Quantitation Report

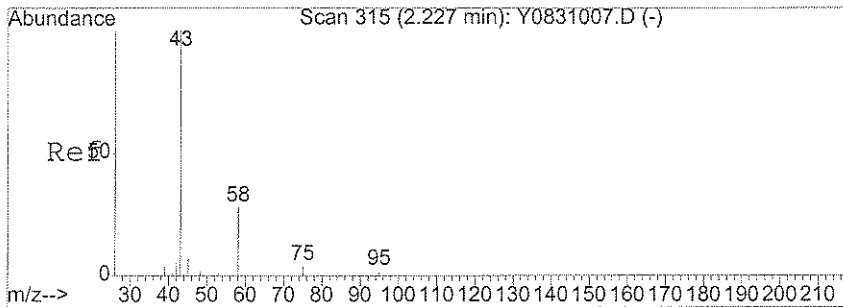
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 Acq On : 7 May 2008 22:06
 Sample : JPL105-003
 Misc : #5 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 11:53 2008

Vial: 17
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

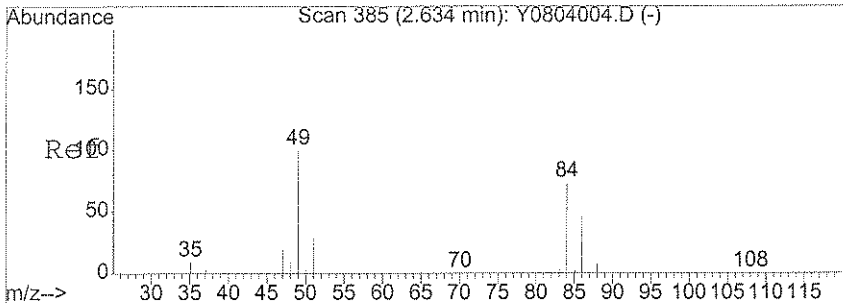
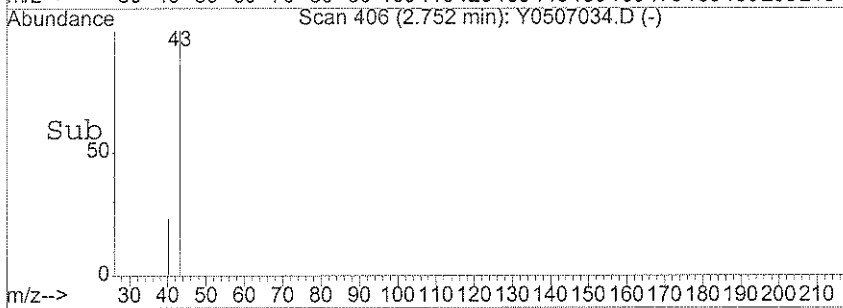
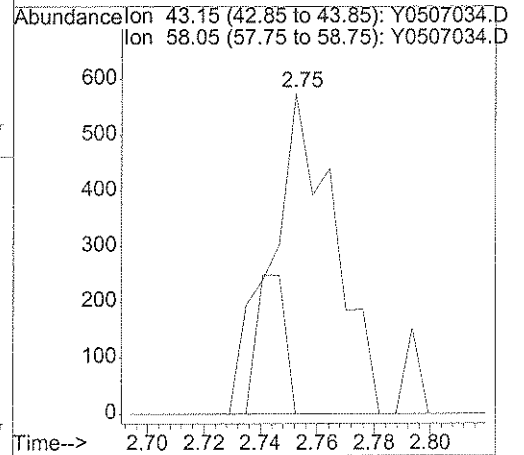
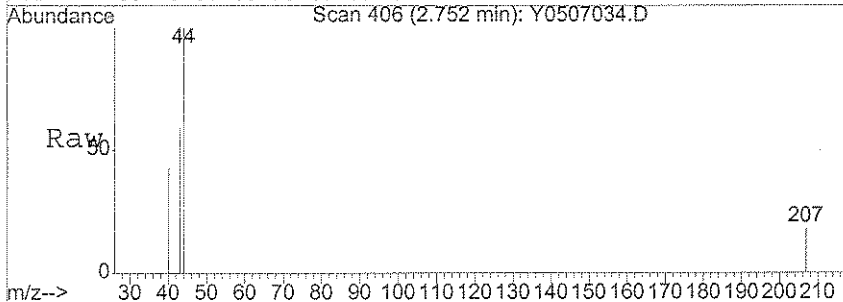
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	72		N.D.	
69) m,p-Xylene	11.91	106	152		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	12.27	104	60		N.D.	
72) Bromoform	12.66	173	66		N.D.	
73) Isopropylbenzene	12.56	105	147		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	341		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	12.91	120	207		N.D.	
81) 2-Chlorotoluene	12.97	91	69		N.D.	
82) 4-Chlorotoluene	12.97	91	69		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.57	146	108		N.D.	
88) 4-Isopropyltoluene	13.59	119	658		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	243		N.D.	
90) 1,2-Dichlorobenzene	13.63	146	243		N.D.	
91) n-Butylbenzene	13.92	91	443		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.33	75	58		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	213		N.D.	
94) Hexachlorobutadiene	15.31	225	311		N.D.	
95) Naphthalene	15.36	128	182		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	225		N.D.	



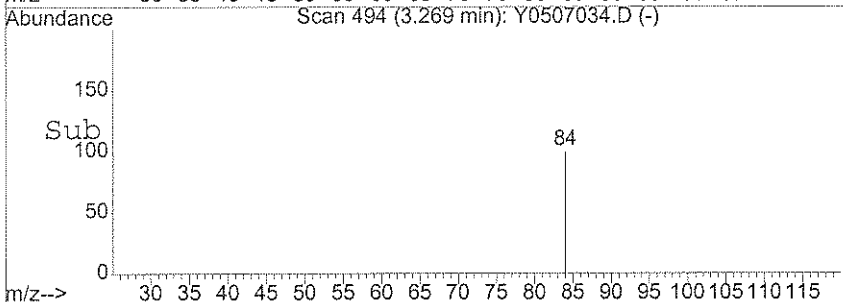
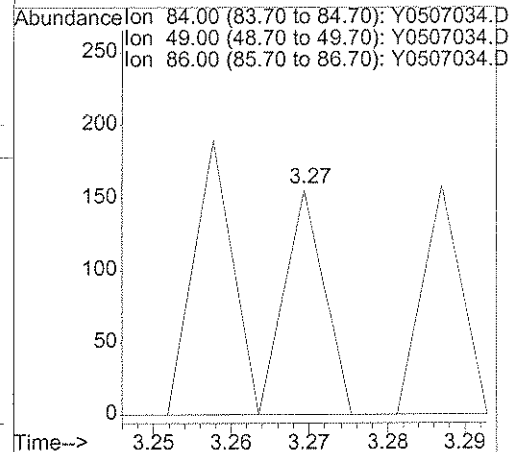
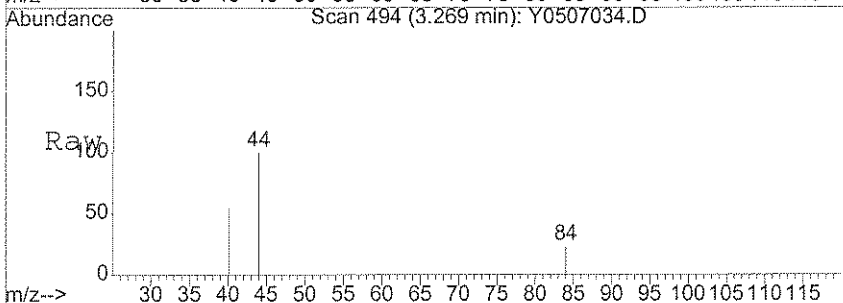
#11
 Acetone
 Concen: 0.73 ug/l
 RT: 2.75 min Scan# 406
 Delta R.T. 0.02 min
 Lab File: Y0507034.D
 Acq: 7 May 2008 22:06

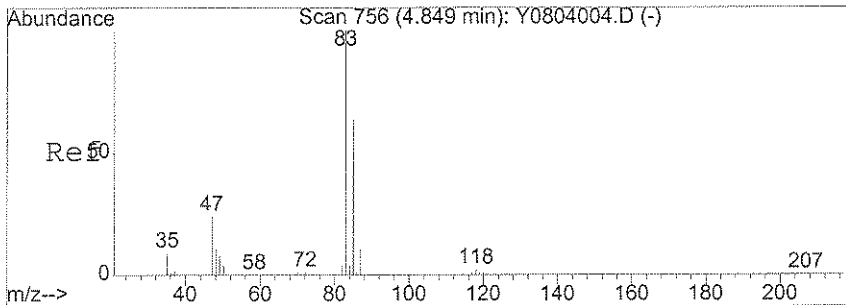
Tgt Ion: 43 Resp: 887
 Ion Ratio Lower Upper
 43 100
 58 19.7 21.3 31.9#



#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.27 min Scan# 494
 Delta R.T. 0.00 min
 Lab File: Y0507034.D
 Acq: 7 May 2008 22:06

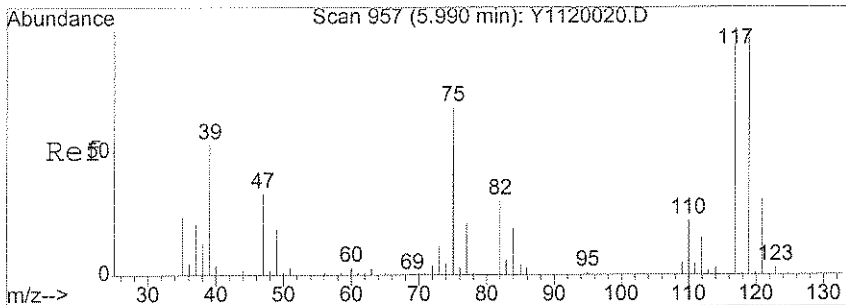
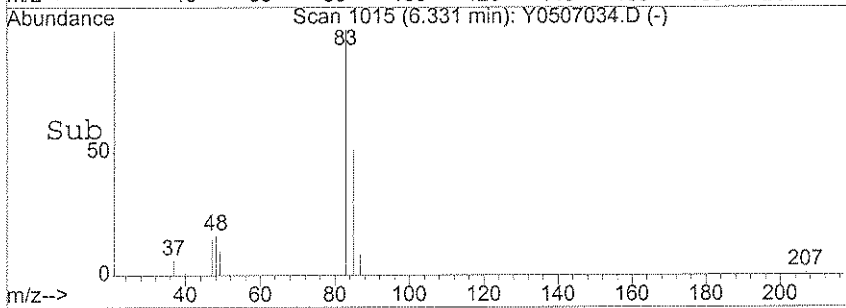
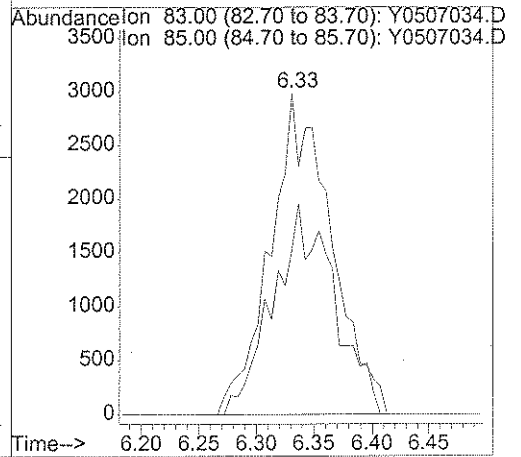
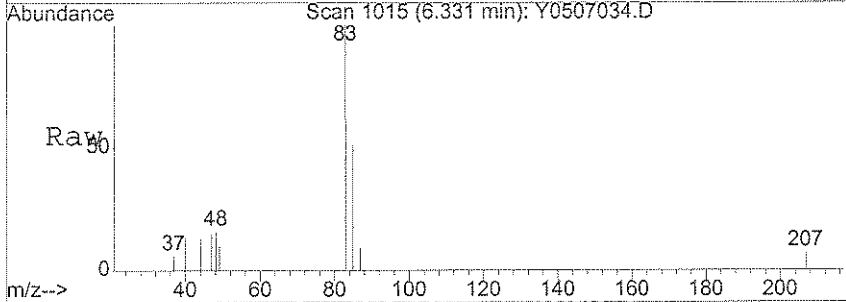
Tgt Ion: 84 Resp: 55
 Ion Ratio Lower Upper
 84 100
 49 121.8 112.5 152.5
 86 0.0 39.5 79.5#





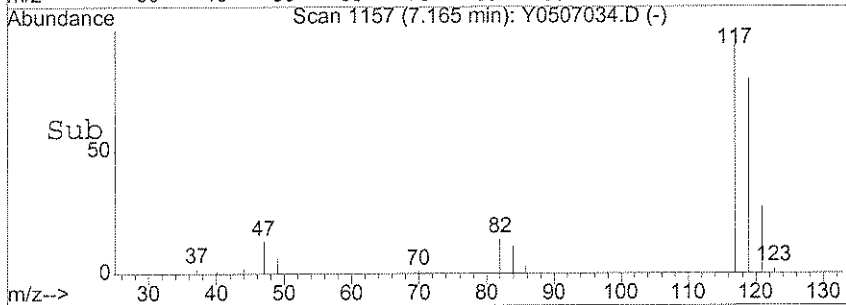
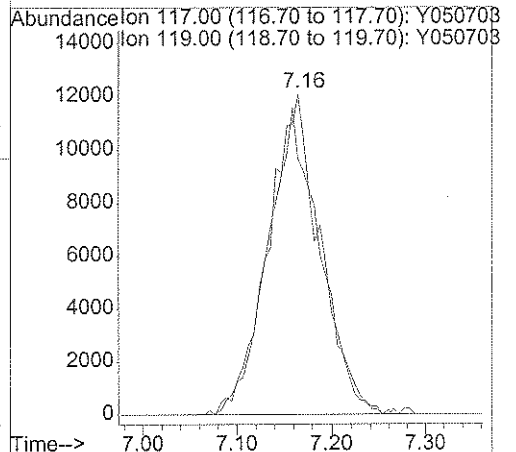
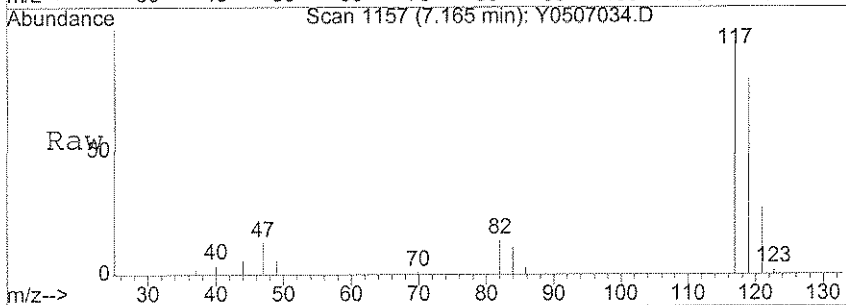
#34
 Chloroform
 Concen: 1.43 ug/l
 RT: 6.33 min Scan# 1015
 Delta R.T. -0.01 min
 Lab File: Y0507034.D
 Acq: 7 May 2008 22:06

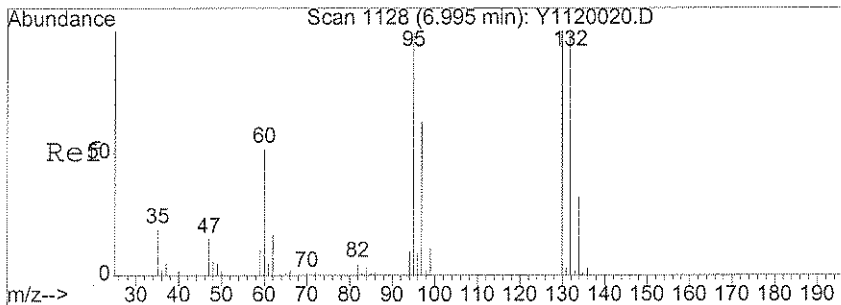
Tgt Ion: 83 Resp: 10882
 Ion Ratio Lower Upper
 83 100
 85 40.9 43.3 83.3#



#38
 Carbon Tetrachloride
 Concen: 8.52 ug/l
 RT: 7.16 min Scan# 1157
 Delta R.T. 0.01 min
 Lab File: Y0507034.D
 Acq: 7 May 2008 22:06

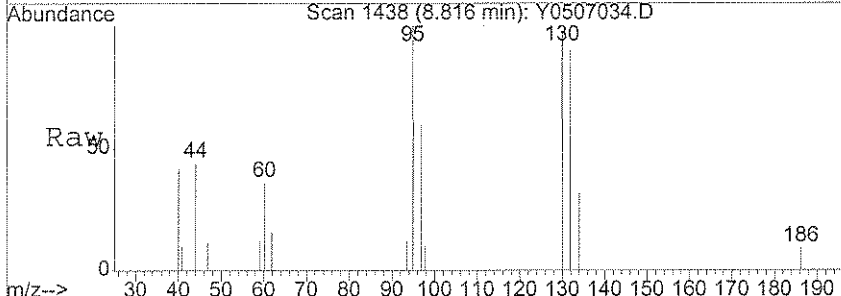
Tgt Ion: 117 Resp: 46126
 Ion Ratio Lower Upper
 117 100
 119 96.3 78.2 118.2



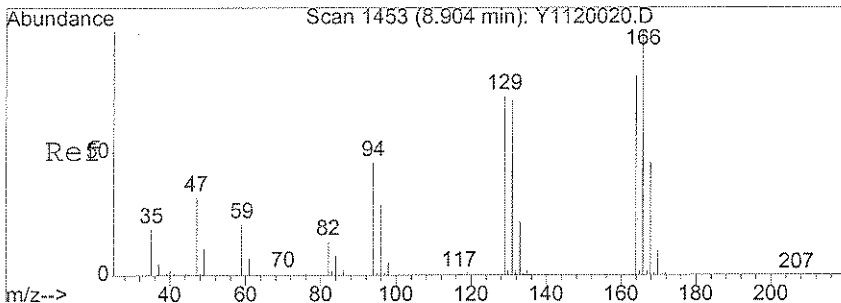
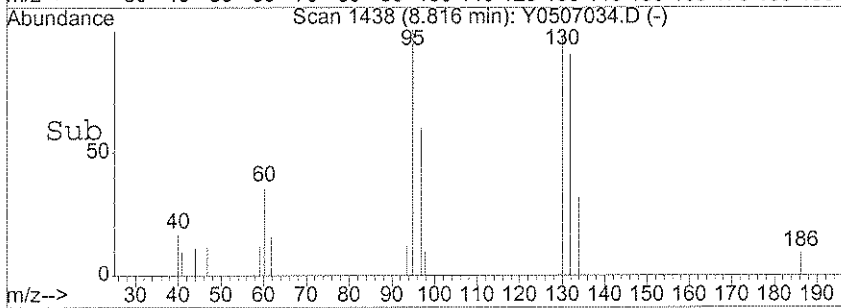
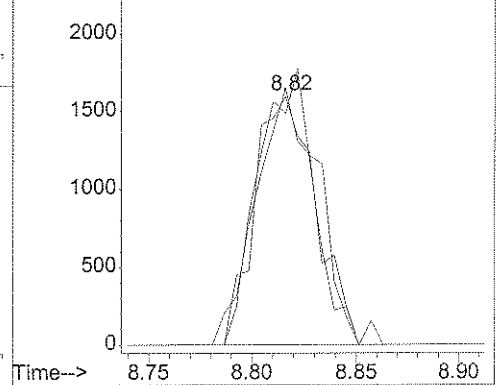


#45
 Trichloroethene
 Concen: 0.82 ug/l
 RT: 8.82 min Scan# 1438
 Delta R.T. 0.00 min
 Lab File: Y0507034.D
 Acq: 7 May 2008 22:06

Tgt Ion	Resp	Lower	Upper
130	3332		
130	100		
132	99.5	75.0	115.0
95	102.5	69.4	109.4

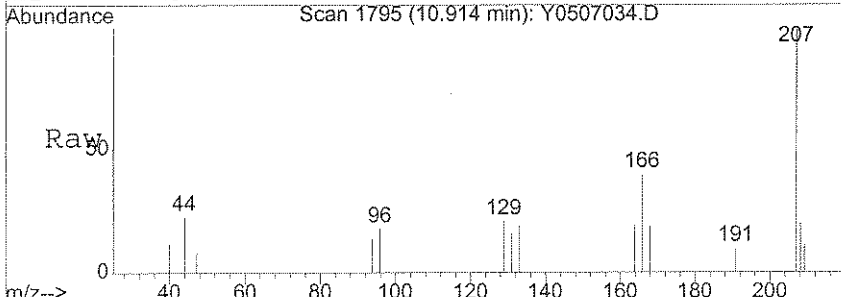


Abundance
 Ion 130.00 (129.70 to 130.70): Y050703
 Ion 132.00 (131.70 to 132.70): Y050703
 Ion 95.00 (94.70 to 95.70): Y0507034.D

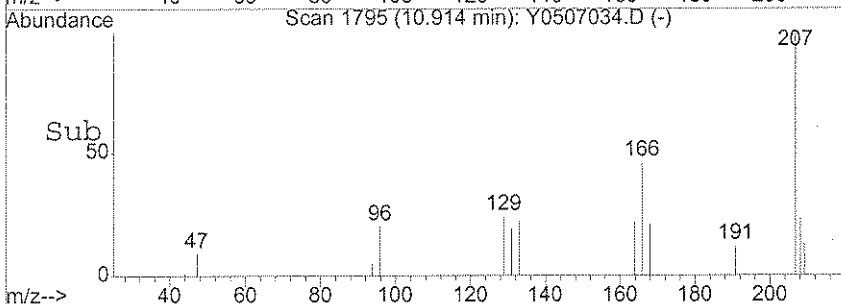
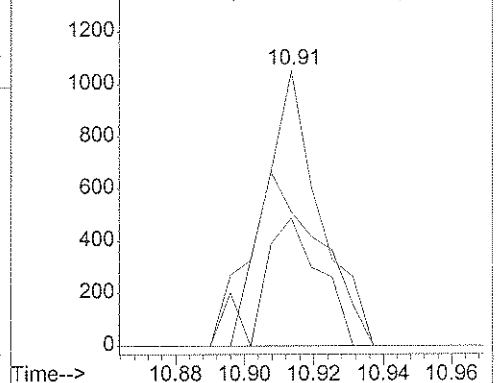


#60
 Tetrachloroethene
 Concen: 0.28 ug/l
 RT: 10.91 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: Y0507034.D
 Acq: 7 May 2008 22:06

Tgt Ion	Resp	Lower	Upper
166	1144		
166	100		
164	83.6	63.3	94.9
168	50.5	39.6	59.4



Abundance
 Ion 165.95 (165.65 to 166.65): Y050703
 Ion 163.95 (163.65 to 164.65): Y050703
 Ion 167.95 (167.65 to 168.65): Y050703



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-2

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-004
 Lab File ID: Y0507035.D
 Date Collected: 05/05/2008
 Date/Time Analyzed: 05/07/2008 22:31
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.25	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-2

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-004
 Lab File ID: Y0507035.D
 Date Collected: 05/05/2008
 Date/Time Analyzed: 05/07/2008 22:31
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-2

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-004
 Lab File ID: Y0507035.D
 Date Collected: 05/05/2008
 Date/Time Analyzed: 05/07/2008 22:31
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

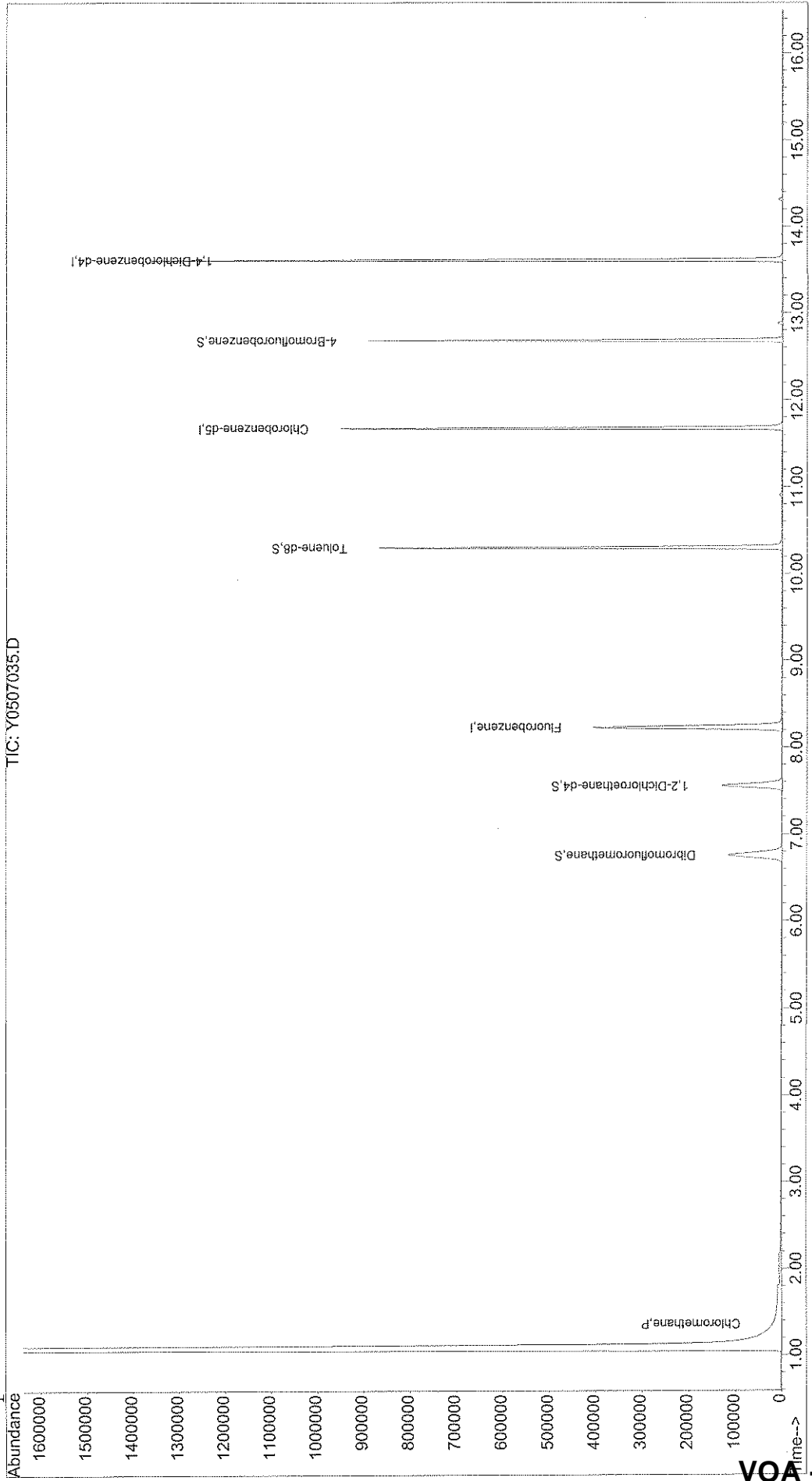
CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507035.D
Acq On : 7 May 2008 22:31 Vial: 18
Sample : JPL105-004 Operator: DGA
Misc : #4 5mL+IS/SS(524) Inst : Yoda
MS Integration Params: rteint.p Multiplr: 1.00
Quant Time: May 9 11:54 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260 - 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507035.D
 Acq On : 7 May 2008 22:31
 Sample : JPL105-004
 Misc : #4 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 11:54 2008

Vial: 18
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\050608\Y0506014.D (6 May 2008 12:59)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
						Rcv(Ar)
1) Fluorobenzene	8.23	96	475464	50.00	ug/l	0.00 93.11%
54) Chlorobenzene-d5	11.68	82	240966	50.00	ug/l	0.00 98.52%
74) 1,4-Dichlorobenzene-d4	13.61	152	296741	50.00	ug/l	0.00 84.67%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	151181	48.61	ug/l	0.00
Spiked Amount	50.000	Range	85 - 115	Recovery	=	97.22%
40) 1,2-Dichloroethane-d4	7.56	65	155633	52.39	ug/l	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	104.78%
55) Toluene-d8	10.30	98	516715	49.52	ug/l	0.00
Spiked Amount	50.000	Range	85 - 120	Recovery	=	99.04%
76) 4-Bromofluorobenzene	12.68	95	213318	55.30	ug/l	0.00
Spiked Amount	50.000	Range	75 - 120	Recovery	=	110.60%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.	
3) Chloromethane	1.36	50	1434	0.25 ug/l	95
4) Vinyl Chloride	1.46	62	333	N.D.	
5) Bromomethane	0.00	96	0	N.D.	
6) Chloroethane	0.00	64	0	N.D.	
7) Trichlorofluoromethane	0.00	101	0	N.D.	
8) Acrolein	0.00	56	0	N.D.	
9) 1,1-Dichloroethene	0.00	96	0	N.D.	
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.	
11) Acetone	0.00	43	0	N.D.	d
12) Iodomethane	0.00	142	0	N.D.	
13) Bromoethane	0.00	108	0	N.D.	
14) Carbon Disulfide	2.89	76	517	N.D.	
15) Allyl chloride	0.00	76	0	N.D.	
16) Acetonitrile	0.00	40	0	N.D.	d
17) Methyl Acetate	0.00	43	0	N.D.	
18) Methylene Chloride	0.00	84	0	N.D.	
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.	
20) Acrylonitrile	0.00	53	0	N.D.	
21) t-butyl alcohol	0.00	59	0	N.D.	
22) Methyl tert-butyl ether	0.00	73	0	N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0507035.D Y8260W.M Fri May 09 11:54:45 2008

[Handwritten Signature]
 Page 1
VOA - 43

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507035.D
 Acq On : 7 May 2008 22:31
 Sample : JPL105-004
 Misc : #4 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 11:54 2008

Vial: 18
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	5.54	96	63		N.D.	
30) 2-Butanone	5.68	43	66		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	6.01	41	54		N.D.	
34) Chloroform	6.35	83	152		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	6.81	56	78		N.D.	
38) Carbon Tetrachloride	7.17	117	53		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.66	78	221		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	9.05	83	86		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.37	92	98		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.71	97	61		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.15	43	78		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.69	112	54		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0507035.D Y8260W.M Fri May 09 11:54:45 2008

[Handwritten Signature]
 Page 2
VOA - 44

Quantitation Report

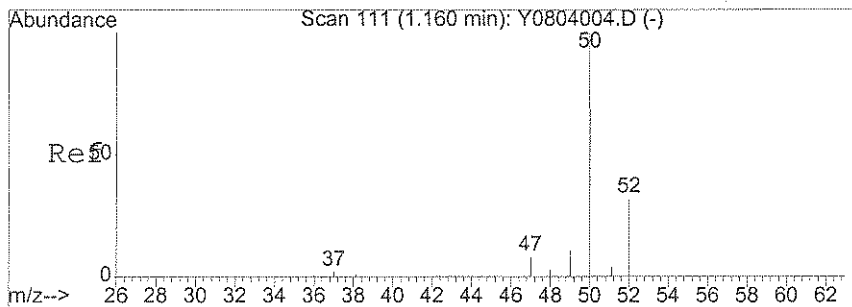
Data File : X:\MSVOA\YODA\050708\Y0507035.D
 Acq On : 7 May 2008 22:31
 Sample : JPL105-004
 Misc : #4 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 11:54 2008

Vial: 18
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

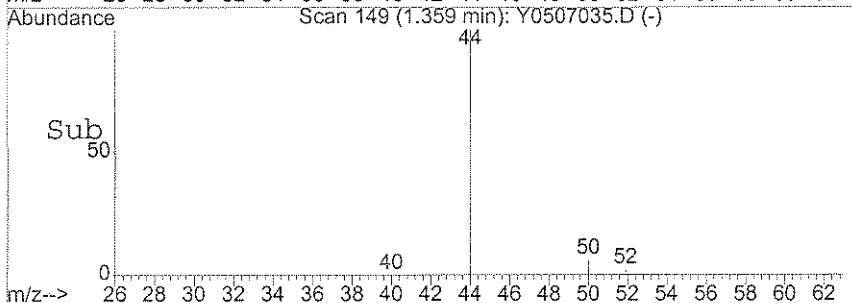
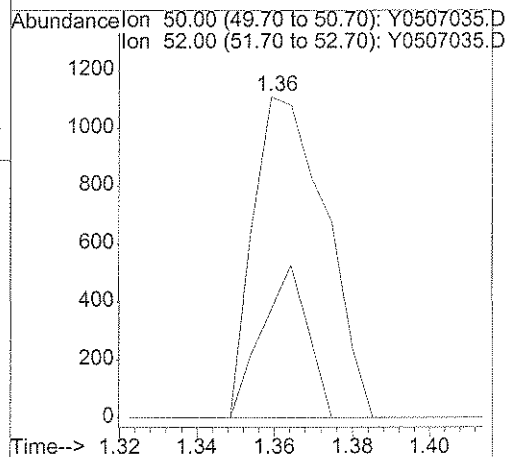
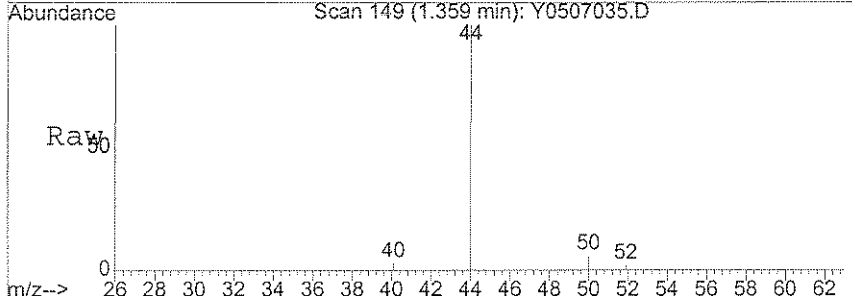
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	257		N.D.	
69) m,p-Xylene	11.91	106	288		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	12.25	104	61		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.56	105	54		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	d
77) Bromobenzene	12.69	156	308		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.68	83	58		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.68	91	184		N.D.	
82) 4-Chlorotoluene	13.05	91	68		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	72		N.D.	
88) 4-Isopropyltoluene	13.59	119	213		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	128		N.D.	
90) 1,2-Dichlorobenzene	13.63	146	128		N.D.	
91) n-Butylbenzene	13.92	91	569		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.32	75	60		N.D.	
93) 1,2,4-Trichlorobenzene	15.16	180	336		N.D.	
94) Hexachlorobutadiene	15.30	225	403		N.D.	
95) Naphthalene	15.36	128	144		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	109		N.D.	



#3
 Chloromethane
 Concen: 0.25 ug/l
 RT: 1.36 min Scan# 149
 Delta R.T. -0.01 min
 Lab File: Y0507035.D
 Acq: 7 May 2008 22:31

Tgt Ion: 50 Resp: 1434
 Ion Ratio Lower Upper
 50 100
 52 30.2 13.0 53.0



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-1

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-005
 Lab File ID: Y0507036.D
 Date Collected: 05/05/2008
 Date/Time Analyzed: 05/07/2008 22:55
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-1

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-005
 Lab File ID: Y0507036.D
 Date Collected: 05/05/2008
 Date/Time Analyzed: 05/07/2008 22:55
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-1

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-005
 Lab File ID: Y0507036.D
 Date Collected: 05/05/2008
 Date/Time Analyzed: 05/07/2008 22:55
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

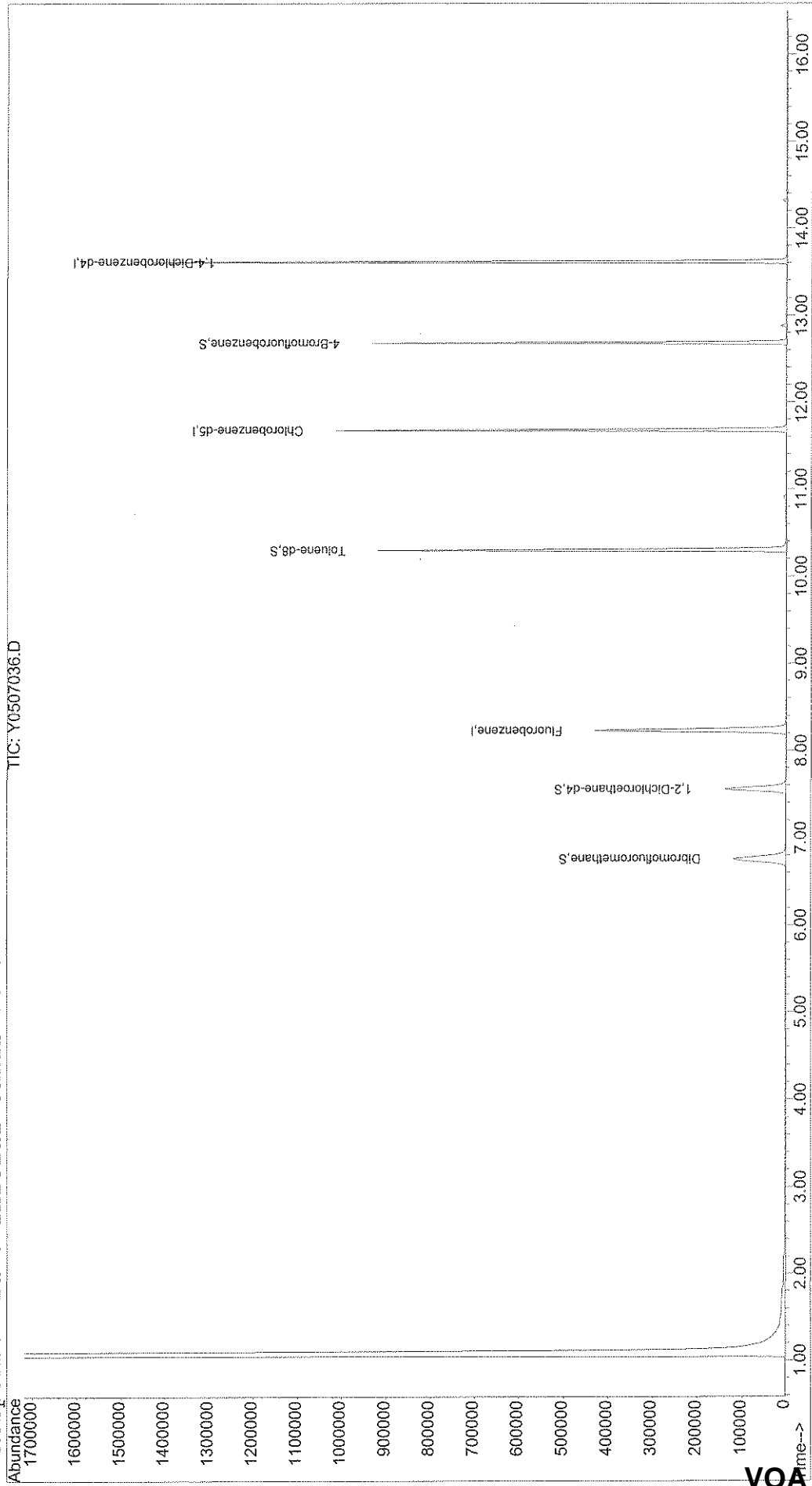
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507036.D
Acq On : 7 May 2008 22:55
Sample : JPL105-005
Misc : #3 5mL+IS/SS(524)
MS Integration Params: rteint.p
Quant Time: May 9 11:55 2008
Vial: 19
Operator: DGA
Inst : Yoda
Multiplr: 1.00
Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260 - 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507036.D
 Acq On : 7 May 2008 22:55
 Sample : JPL105-005
 Misc : #3 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 11:55 2008

Vial: 19
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\050608\Y0506014.D (6 May 2008 12:59)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	503078	50.00	ug/l	0.00	98.52%
54) Chlorobenzene-d5	11.68	82	251301	50.00	ug/l	0.00	102.74%
74) 1,4-Dichlorobenzene-d4	13.61	152	307622	50.00	ug/l	0.00	87.78%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	158910	48.29	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	96.58%	
40) 1,2-Dichloroethane-d4	7.56	65	165331	52.60	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.20%	
55) Toluene-d8	10.30	98	540514	49.67	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	99.34%	
76) 4-Bromofluorobenzene	12.68	95	221842	55.47	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	110.94%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	622	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	0.00	43	0	N.D.	d	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	659	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	3.11	43	58	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	3.66	96	54	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

(#) = qualifier out of range (m) = manual integration
 Y0507036.D Y8260W.M Fri May 09 11:56:10 2008

J. Stahler
 Page 1
VOA - 51

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507036.D
 Acq On : 7 May 2008 22:55
 Sample : JPL105-005
 Misc : #3 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 11:55 2008

Vial: 19
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	0.00	43	0		N.D.	d
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	0.00	78	0		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	8.81	130	69		N.D.	
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	8.95	63	74		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.37	92	57		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	10.76	69	64		N.D.	
59) 1,1,2-Trichloroethane	10.91	97	64		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	10.85	76	57		N.D.	
62) 2-Hexanone	0.00	43	0		N.D.	
63) Dibromochloromethane	11.17	129	54		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	57		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0507036.D Y8260W.M Fri May 09 11:56:11 2008

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 Page 2
 VOA - 52

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507036.D
 Acq On : 7 May 2008 22:55
 Sample : JPL105-005
 Misc : #3 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 11:55 2008

Vial: 19
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	71		N.D.	
69) m,p-Xylene	11.91	106	74		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	12.27	104	76		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.56	105	204		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	234		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.95	91	56		N.D.	
82) 4-Chlorotoluene	13.05	91	250		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	104		N.D.	
88) 4-Isopropyltoluene	13.59	119	644		N.D.	
89) 1,4-Dichlorobenzene	13.62	146	337		N.D.	
90) 1,2-Dichlorobenzene	13.92	146	63		N.D.	
91) n-Butylbenzene	13.91	91	541		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.32	75	68		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	355		N.D.	
94) Hexachlorobutadiene	15.31	225	277		N.D.	
95) Naphthalene	15.36	128	161		N.D.	
96) 1,2,3-Trichlorobenzene	15.55	180	221		N.D.	

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-08-05/05/08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL105

Run Sequence: R027971

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL105-006

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0507037.D

Level: (LOW/MED) _____

Date Collected: 05/05/2008

% Moisture: not dec. _____

Date/Time Analyzed: 05/07/2008 23:20

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-08-05/05/08

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-006
 Lab File ID: Y0507037.D
 Date Collected: 05/05/2008
 Date/Time Analyzed: 05/07/2008 23:20
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-08-05/05/08

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-006
 Lab File ID: Y0507037.D
 Date Collected: 05/05/2008
 Date/Time Analyzed: 05/07/2008 23:20
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

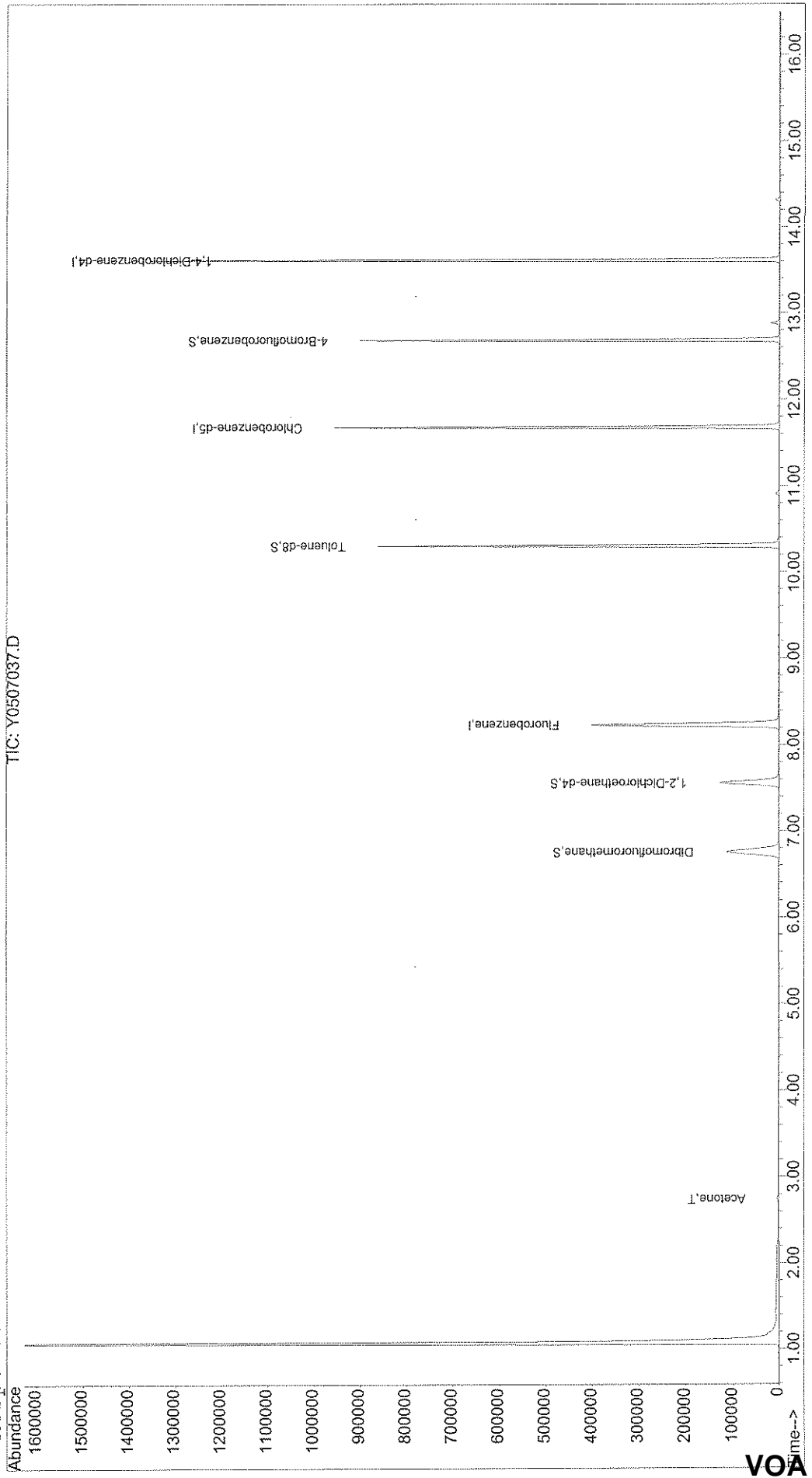
Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507037.D
Acq On : 7 May 2008 23:20
Sample : JPL105-006
Misc : #4 5mL+IS/SS(524)
MS Integration Params: rteint.p
Quant Time: May 9 11:57 2008

Vial: 20
Operator: DGA
Inst : yoda
Multiplr: 1.00
Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260 - 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507037.D
 Acq On : 7 May 2008 23:20
 Sample : JPL105-006
 Misc : #4 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 11:57 2008

Vial: 20
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\050608\Y0506014.D (6 May 2008 12:59)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	470337	50.00	ug/l	0.00 92.11%
54) Chlorobenzene-d5	11.68	82	239319	50.00	ug/l	0.00 97.84%
74) 1,4-Dichlorobenzene-d4	13.61	152	299783	50.00	ug/l	0.00 85.54%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	148845	48.38	ug/l	0.00
Spiked Amount	50.000	Range	85 - 115	Recovery	=	96.76%
40) 1,2-Dichloroethane-d4	7.56	65	152885	52.02	ug/l	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	104.04%
55) Toluene-d8	10.30	98	508130	49.03	ug/l	0.00
Spiked Amount	50.000	Range	85 - 120	Recovery	=	98.06%
76) 4-Bromofluorobenzene	12.68	95	212718	54.58	ug/l	0.00
Spiked Amount	50.000	Range	75 - 120	Recovery	=	109.16%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.	
3) Chloromethane	1.36	50	419	N.D.	
4) Vinyl Chloride	0.00	62	0	N.D.	
5) Bromomethane	0.00	96	0	N.D.	
6) Chloroethane	0.00	64	0	N.D.	
7) Trichlorofluoromethane	0.00	101	0	N.D.	
8) Acrolein	0.00	56	0	N.D.	
9) 1,1-Dichloroethene	0.00	96	0	N.D.	
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.	
11) Acetone	2.74	43	4299	3.84 ug/l #	86
12) Iodomethane	0.00	142	0	N.D.	
13) Bromoethane	0.00	108	0	N.D.	
14) Carbon Disulfide	2.88	76	353	N.D.	
15) Allyl chloride	0.00	76	0	N.D.	
16) Acetonitrile	0.00	40	0	N.D.	d
17) Methyl Acetate	0.00	43	0	N.D.	
18) Methylene Chloride	0.00	84	0	N.D.	
19) trans-1,2-Dichloroethene	3.67	96	60	N.D.	
20) Acrylonitrile	0.00	53	0	N.D.	
21) t-butyl alcohol	0.00	59	0	N.D.	d
22) Methyl tert-butyl ether	0.00	73	0	N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0507037.D Y8260W.M Fri May 09 11:57:56 2008

J. Stahr
 Page 1
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Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507037.D
 Acq On : 7 May 2008 23:20
 Sample : JPL105-006
 Misc : #4 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 11:57 2008

Vial: 20
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	4.61	43	55		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	5.61	43	62		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.31	83	129		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.65	78	153		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	9.06	83	68		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	9.25	41	56		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	9.84	75	57		N.D.	
53) 4-Methyl-2-pentanone	10.25	43	156		N.D.	
56) Toluene	0.00	92	0		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.89	97	98		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.08	43	68		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.69	112	58		N.D.	
66) 1-Chlorohexane	11.71	91	141		N.D.	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0507037.D Y8260W.M Fri May 09 11:57:57 2008

J. S. L...
 Page 2
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Quantitation Report

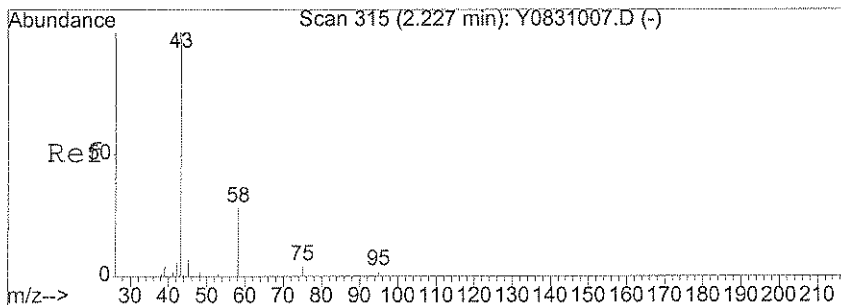
Data File : X:\MSVOA\YODA\050708\Y0507037.D
 Acq On : 7 May 2008 23:20
 Sample : JPL105-006
 Misc : #4 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 11:57 2008

Vial: 20
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

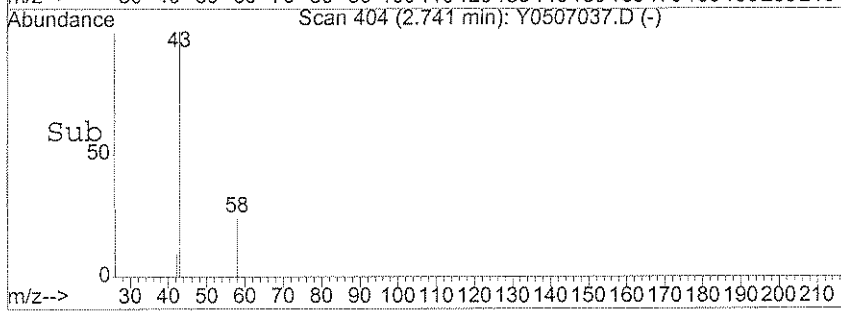
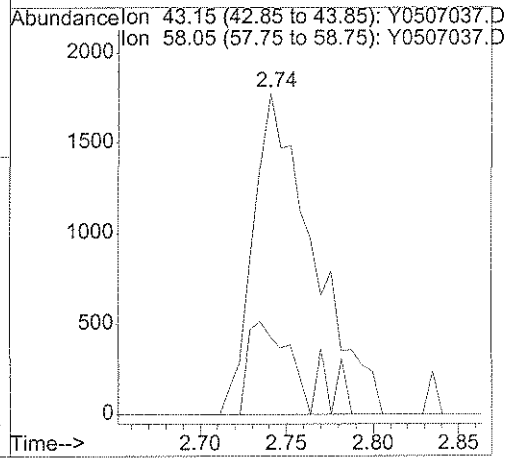
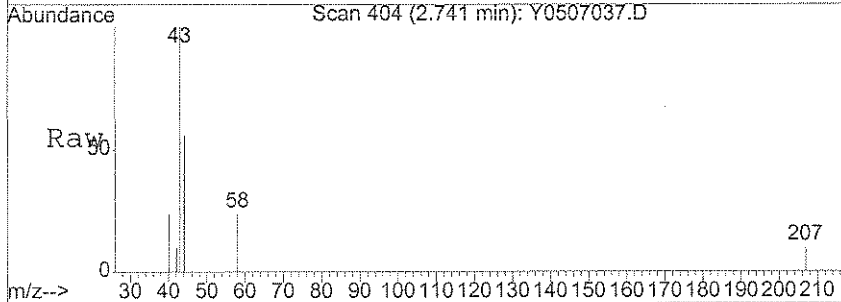
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.91	91	1968		N.D.	
69) m,p-Xylene	0.00	106	0		N.D.	d
70) o-xylene	12.25	106	270		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	12.66	173	60		N.D.	
73) Isopropylbenzene	12.57	105	75		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	72		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.68	83	59		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	12.90	120	70		N.D.	
81) 2-Chlorotoluene	12.96	91	186		N.D.	
82) 4-Chlorotoluene	12.96	91	186		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	78		N.D.	
88) 4-Isopropyltoluene	13.60	119	356		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	182		N.D.	
90) 1,2-Dichlorobenzene	13.63	146	128		N.D.	
91) n-Butylbenzene	13.91	91	443		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	275		N.D.	
94) Hexachlorobutadiene	15.30	225	140		N.D.	
95) Naphthalene	15.36	128	452		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	246		N.D.	



#11
 Acetone
 Concen: 3.84 ug/l
 RT: 2.74 min Scan# 404
 Delta R.T. 0.01 min
 Lab File: Y0507037.D
 Acq: 7 May 2008 23:20

Tgt Ion: 43 Resp: 4299
 Ion Ratio Lower Upper
 43 100
 58 19.4 21.3 31.9#



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-2-2Q08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL105

Run Sequence: R027971

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL105-007

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0507038.D

Level: (LOW/MED) _____

Date Collected: 05/05/2008

% Moisture: not dec. _____

Date/Time Analyzed: 05/07/2008 23:45

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-2-2Q08

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-007
 Lab File ID: Y0507038.D
 Date Collected: 05/05/2008
 Date/Time Analyzed: 05/07/2008 23:45
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-2-2Q08

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-007
 Lab File ID: Y0507038.D
 Date Collected: 05/05/2008
 Date/Time Analyzed: 05/07/2008 23:45
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

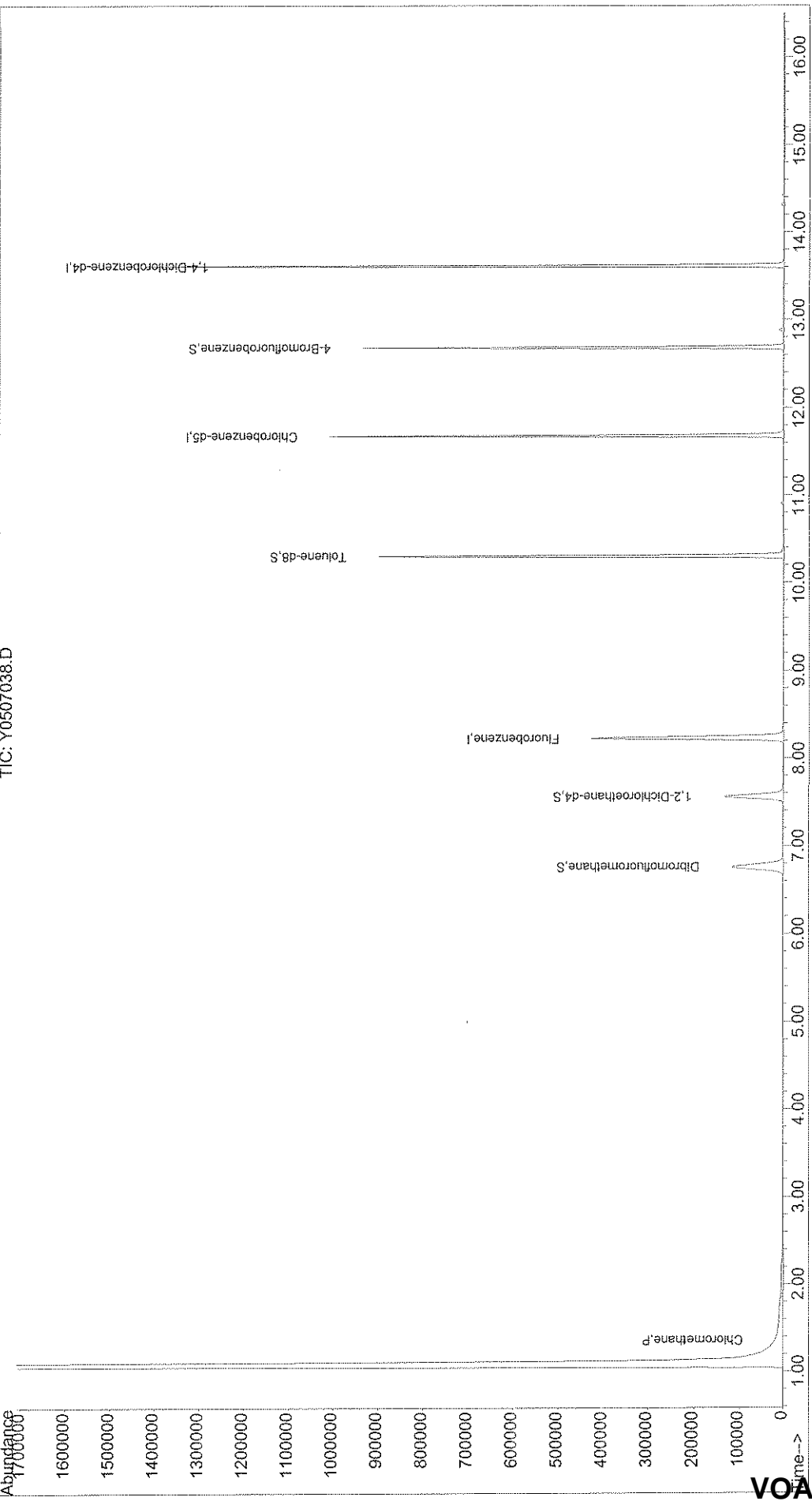
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507038.D
Acq On : 7 May 2008 23:45
Sample : JPL105-007
Misc : #3 5mL+IS/SS(524)
MS Integration Params: rteint.p
Quant Time: May 9 12:00 2008
Vial: 21
Operator: DGA
Inst : yoda
Multiplr: 1.00
Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260 - 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507038.D
 Acq On : 7 May 2008 23:45
 Sample : JPL105-007
 Misc : #3 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:00 2008

Vial: 21
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

IS QA File : X:\MSVOA\YODA\050608\Y0506014.D (6 May 2008 12:59)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	498098	50.00	ug/l	0.00	97.55%
54) Chlorobenzene-d5	11.68	82	247602	50.00	ug/l	0.00	101.23%
74) 1,4-Dichlorobenzene-d4	13.61	152	305156	50.00	ug/l	0.00	87.07%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	155446	47.71	ug/l	0.00	
Spiked Amount	50.000						
Range	85 - 115						Recovery = 95.42%
40) 1,2-Dichloroethane-d4	7.56	65	161066	51.75	ug/l	0.00	
Spiked Amount	50.000						
Range	70 - 120						Recovery = 103.50%
55) Toluene-d8	10.30	98	530894	49.52	ug/l	0.00	
Spiked Amount	50.000						
Range	85 - 120						Recovery = 99.04%
76) 4-Bromofluorobenzene	12.68	95	221259	55.77	ug/l	0.00	
Spiked Amount	50.000						
Range	75 - 120						Recovery = 111.54%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	911	0.15	ug/l	88
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	0.00	43	0	N.D.	d	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.90	76	307	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.26	84	53	Below Cal	#	59
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	3.70	73	62	N.D.		

(#) = qualifier out of range (m) = manual integration
 Y0507038.D Y8260W.M Fri May 09 12:00:22 2008

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Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507038.D
 Acq On : 7 May 2008 23:45
 Sample : JPL105-007
 Misc : #3 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:00 2008

Vial: 21
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	4.40	43	60		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	0.00	43	0		N.D.	d
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.69	78	66		N.D.	
42) 1,2-Dichloroethane	7.56	62	59		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	8.89	130	54		N.D.	
46) Methylcyclohexane	9.06	83	74		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.37	92	206		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.83	97	55		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	10.81	76	131		N.D.	
62) 2-Hexanone	11.05	43	103		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	65		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0507038.D Y8260W.M Fri May 09 12:00:23 2008

J. Stahler
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Quantitation Report

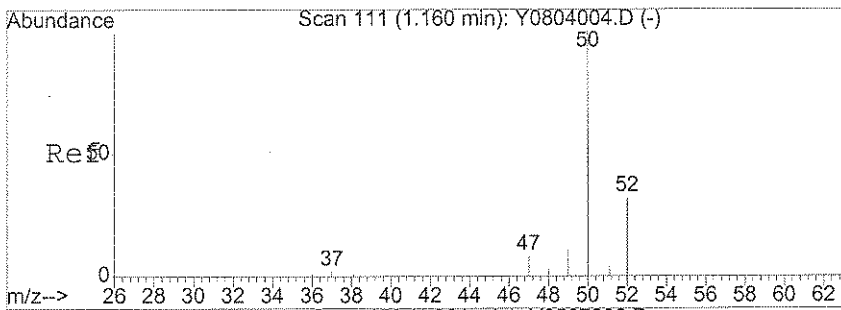
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 Acq On : 7 May 2008 23:45
 Sample : JPL105-007
 Misc : #3 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:00 2008

Vial: 21
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

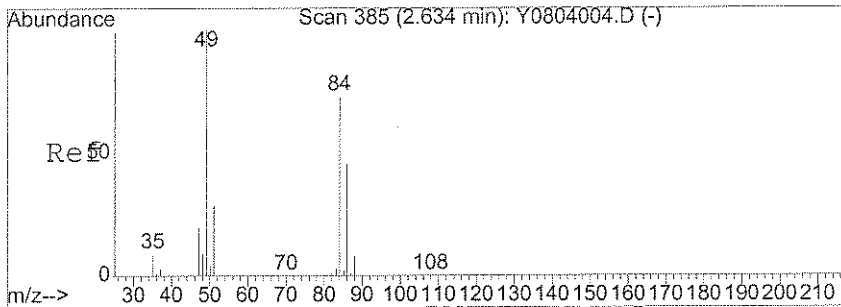
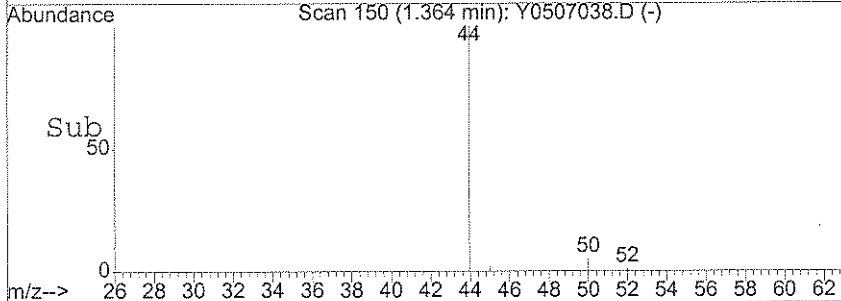
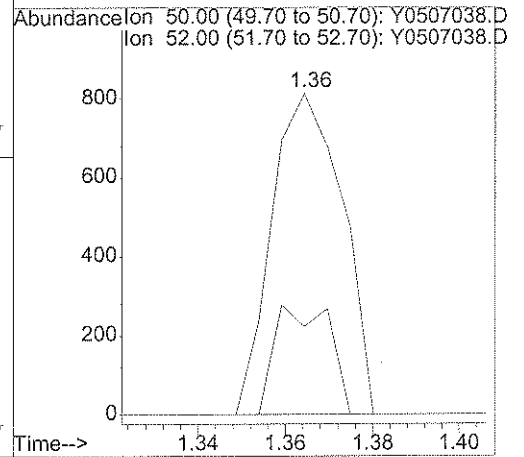
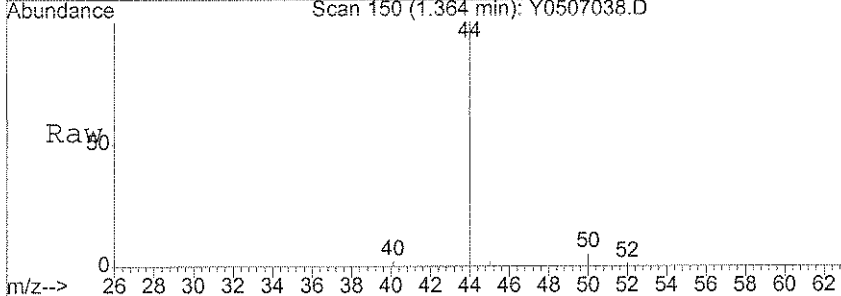
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	54		N.D.	
69) m,p-Xylene	11.91	106	181		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	12.70	173	106		N.D.	
73) Isopropylbenzene	12.56	105	67		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	319		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	13.03	120	67		N.D.	
81) 2-Chlorotoluene	12.90	91	230		N.D.	
82) 4-Chlorotoluene	13.04	91	58		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	162		N.D.	
88) 4-Isopropyltoluene	13.60	119	401		N.D.	
89) 1,4-Dichlorobenzene	13.62	146	110		N.D.	
90) 1,2-Dichlorobenzene	13.62	146	110		N.D.	
91) n-Butylbenzene	13.91	91	519		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	202		N.D.	
94) Hexachlorobutadiene	15.30	225	71		N.D.	
95) Naphthalene	15.36	128	69		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	74		N.D.	



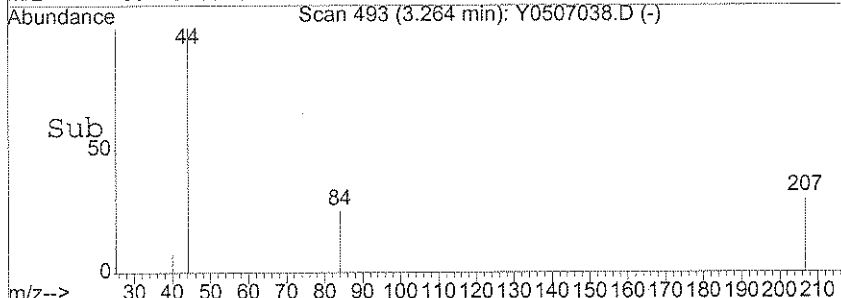
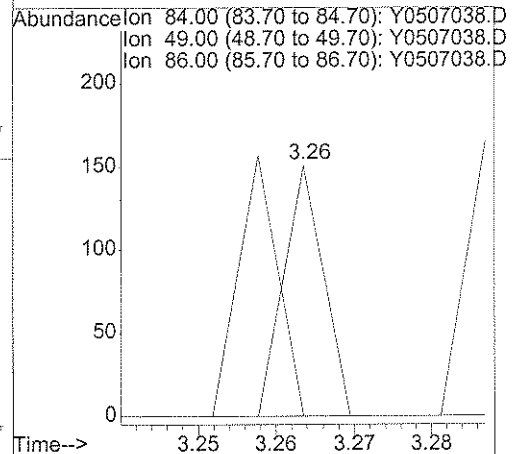
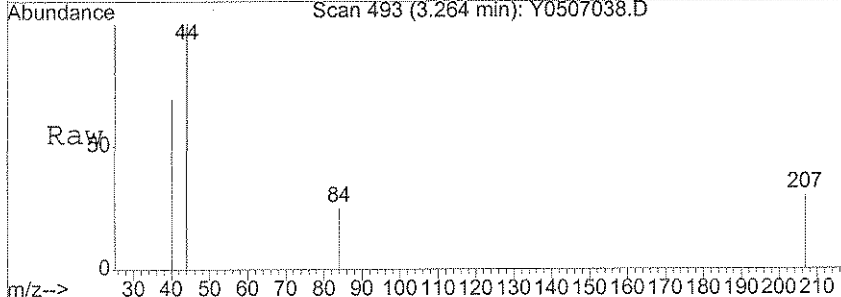
#3
 Chloromethane
 Concen: 0.15 ug/l
 RT: 1.36 min Scan# 150
 Delta R.T. -0.00 min
 Lab File: Y0507038.D
 Acq: 7 May 2008 23:45

Tgt Ion: 50 Resp: 911
 Ion Ratio Lower Upper
 50 100
 52 26.5 13.0 53.0



#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.26 min Scan# 493
 Delta R.T. -0.01 min
 Lab File: Y0507038.D
 Acq: 7 May 2008 23:45

Tgt Ion: 84 Resp: 53
 Ion Ratio Lower Upper
 84 100
 49 103.8 112.5 152.5#
 86 0.0 39.5 79.5#



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-08-05/05/08

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-008
 Lab File ID: Y0507024.D
 Date Collected: 05/05/2008
 Date/Time Analyzed: 05/07/2008 17:59
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-08-05/05/08

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-008
 Lab File ID: Y0507024.D
 Date Collected: 05/05/2008
 Date/Time Analyzed: 05/07/2008 17:59
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-08-05/05/08

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-008
 Lab File ID: Y0507024.D
 Date Collected: 05/05/2008
 Date/Time Analyzed: 05/07/2008 17:59
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

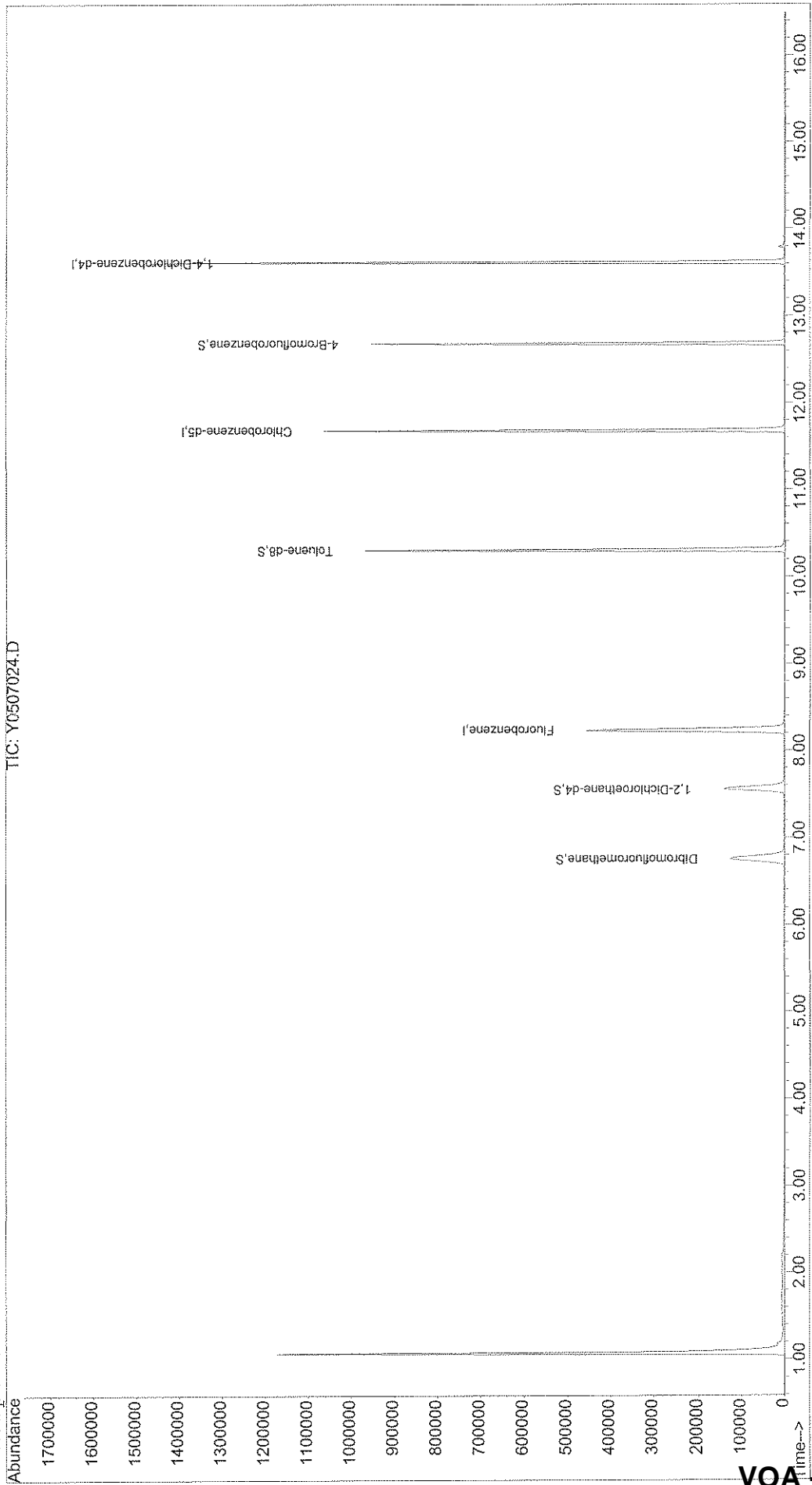
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507024.D Vial: 7
Acq On : 7 May 2008 17:59 Operator: DGA
Sample : JPL105-008 TB Inst : yoda
Misc : #1 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 9 9:38 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260 - 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



VOA-73

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507024.D
 Acq On : 7 May 2008 17:59
 Sample : JPL105-008 TB
 Misc : #1 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 9:38 2008

Vial: 7
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

IS QA File : X:\MSVOA\YODA\050608\Y0506014.D (6 May 2008 12:59)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) Fluorobenzene	8.23	96	550601	50.00	ug/l	0.00 107.83%
54) Chlorobenzene-d5	11.68	82	264675	50.00	ug/l	0.00 108.21%
74) 1,4-Dichlorobenzene-d4	13.61	152	313701	50.00	ug/l	0.00 89.51%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	168572	46.80	ug/l	0.00
Spiked Amount	50.000	Range	85 - 115	Recovery	=	93.60%
40) 1,2-Dichloroethane-d4	7.56	65	171809	49.94	ug/l	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.88%
55) Toluene-d8	10.30	98	580365	50.64	ug/l	0.00
Spiked Amount	50.000	Range	85 - 120	Recovery	=	101.28%
76) 4-Bromofluorobenzene	12.68	95	231028	56.65	ug/l	0.00
Spiked Amount	50.000	Range	75 - 120	Recovery	=	113.30%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	66	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	2.68	96	55	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	2.70	101	154	N.D.		
11) Acetone	0.00	43	0	N.D.	d	
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	1044	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.28	84	480	Below Cal	#	13
19) trans-1,2-Dichloroethene	3.66	96	129	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

(#) = qualifier out of range (m) = manual integration
 Y0507024.D Y8260W.M Fri May 09 09:38:55 2008

[Handwritten Signature]
 Page 74
VOA - 74

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507024.D
 Acq On : 7 May 2008 17:59
 Sample : JPL105-008 TB
 Misc : #1 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 9:38 2008

Vial: 7
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	4.51	53	60		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	5.57	43	131		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.65	78	84		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	9.05	83	540		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	9.25	93	66		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.37	92	83		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.69	97	53		N.D.	
60) Tetrachloroethene	10.90	166	63		N.D.	
61) 1,3-Dichloropropane	10.72	76	95		N.D.	
62) 2-Hexanone	11.22	43	170		N.D.	
63) Dibromochloromethane	10.91	129	62		N.D.	
64) 1,2-Dibromoethane	11.17	107	55		N.D.	
65) Chlorobenzene	11.70	112	296		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0507024.D Y8260W.M Fri May 09 09:38:56 2008

Quantitation Report

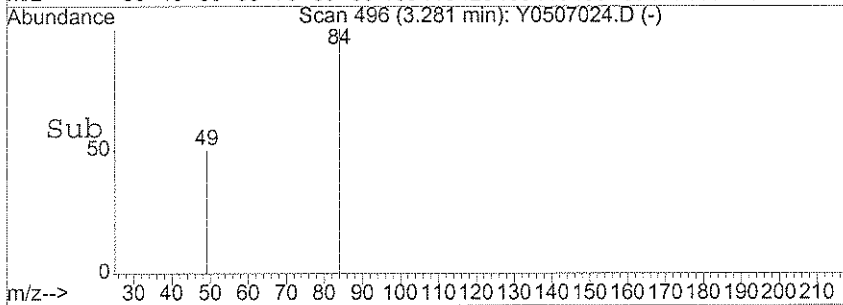
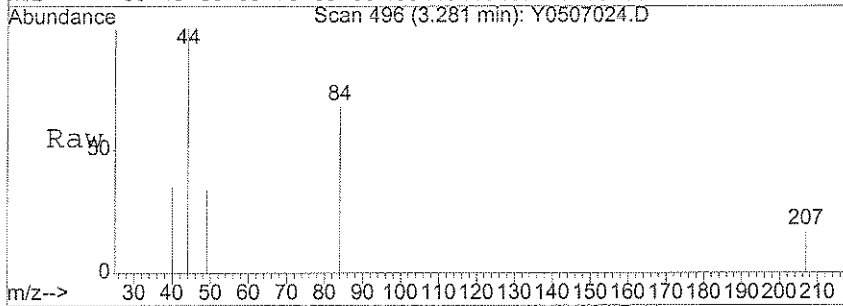
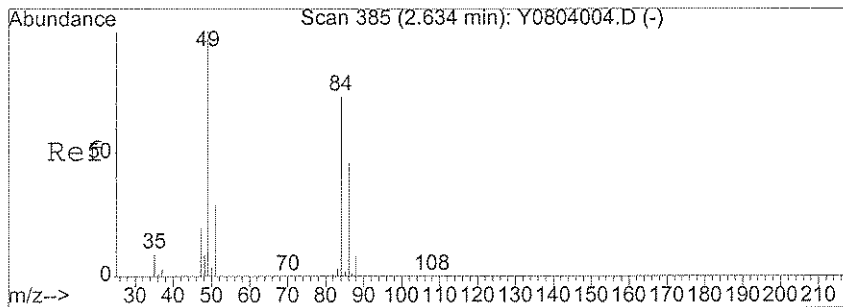
Data File : X:\MSVOA\YODA\050708\Y0507024.D
 Acq On : 7 May 2008 17:59
 Sample : JPL105-008 TB
 Misc : #1 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 9:38 2008

Vial: 7
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

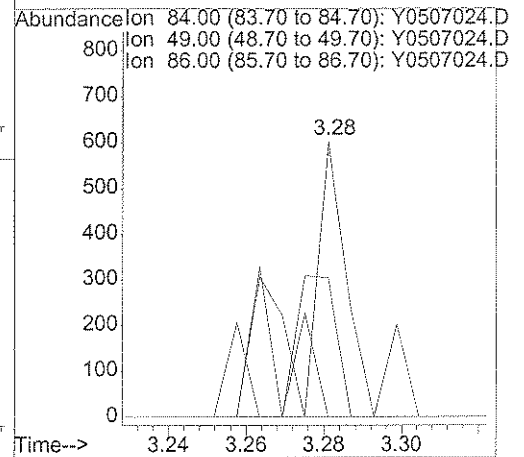
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	411		N.D.	
69) m,p-Xylene	11.91	106	354		N.D.	
70) o-xylene	12.24	106	88		N.D.	
71) Styrene	12.26	104	240		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.56	105	356		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.69	156	65		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	12.89	120	115		N.D.	
81) 2-Chlorotoluene	13.05	91	462		N.D.	
82) 4-Chlorotoluene	13.05	91	531		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	291		N.D.	
88) 4-Isopropyltoluene	13.59	119	1363		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	576		N.D.	
90) 1,2-Dichlorobenzene	13.92	146	227		N.D.	
91) n-Butylbenzene	13.91	91	1508		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.39	75	67		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	1015		N.D.	
94) Hexachlorobutadiene	0.00	225	0		N.D.	d
95) Naphthalene	15.36	128	558		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	744		N.D.	



#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.28 min Scan# 496
 Delta R.T. 0.01 min
 Lab File: Y0507024.D
 Acq: 7 May 2008 17:59

Tgt Ion	Resp	Lower	Upper
84	480		
84	100		
49	14.8	112.5	152.5#
86	16.7	39.5	79.5#



TIC FORMS

SDG JPL105

VOLATILES ANALYSIS

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-18-5

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL105

Run Sequence: R027971

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL105-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0507032.D

Level: (LOW/MED) _____

Date Collected: 05/05/2008

% Moisture: not dec. _____

Date Analyzed: 05/07/2008

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
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28				
29				
30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507032.D Vial: 15
Acq On : 7 May 2008 21:16 Operator: DGA
Sample : JPL105-001 Inst : yoda
Misc : #5 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507032.D Y8260W.M Fri May 09 11:15:34 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-18-4

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-002
 Lab File ID: Y0507033.D
 Date Collected: 05/05/2008
 Date Analyzed: 05/07/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
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10				
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12				
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30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507033.D Vial: 16
Acq On : 7 May 2008 21:41 Operator: DGA
Sample : JPL105-002 Inst : yoda
Misc : #5 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507033.D Y8260W.M Fri May 09 11:52:01 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-18-3

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL105

Run Sequence: R027971

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL105-003

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0507034.D

Level: (LOW/MED) _____

Date Collected: 05/05/2008

% Moisture: not dec. _____

Date Analyzed: 05/07/2008

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
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28				
29				
30				

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507034.D Vial: 17
Acq On : 7 May 2008 22:06 Operator: DGA
Sample : JPL105-003 Inst : yoda
Misc : #5 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507034.D Y8260W.M Fri May 09 11:53:28 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-18-2

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-004
 Lab File ID: Y0507035.D
 Date Collected: 05/05/2008
 Date Analyzed: 05/07/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
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12					
13					
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29					
30					

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507035.D Vial: 18
Acq On : 7 May 2008 22:31 Operator: DGA
Sample : JPL105-004 Inst : yoda
Misc : #4 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507035.D Y8260W.M Fri May 09 11:54:50 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-18-1

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-005
 Lab File ID: Y0507036.D
 Date Collected: 05/05/2008
 Date Analyzed: 05/07/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
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29					
30					

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507036.D Vial: 19
Acq On : 7 May 2008 22:55 Operator: DGA
Sample : JPL105-005 Inst : yoda
Misc : #3 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507036.D Y8260W.M Fri May 09 11:56:38 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-08-05/05/08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL105

Run Sequence: R027971

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL105-006

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0507037.D

Level: (LOW/MED) _____

Date Collected: 05/05/2008

% Moisture: not dec. _____

Date Analyzed: 05/07/2008

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
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07					
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30					

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507037.D Vial: 20
Acq On : 7 May 2008 23:20 Operator: DGA
Sample : JPL105-006 Inst : yoda
Misc : #4 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507037.D Y8260W.M Fri May 09 11:58:05 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DUPE-2-2Q08

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL105-007
 Lab File ID: Y0507038.D
 Date Collected: 05/05/2008
 Date Analyzed: 05/07/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
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07					
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29					
30					

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507038.D Vial: 21
Acq On : 7 May 2008 23:45 Operator: DGA
Sample : JPL105-007 Inst : yoda
Misc : #3 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507038.D Y8260W.M Fri May 09 12:00:27 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-08-05/05/08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL105

Run Sequence: R027971

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL105-008

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0507024.D

Level: (LOW/MED) _____

Date Collected: 05/05/2008

% Moisture: not dec. _____

Date Analyzed: 05/07/2008

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
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29					
30					

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507024.D Vial: 7
Acq On : 7 May 2008 17:59 Operator: DGA
Sample : JPL105-008 TB Inst : yoda
Misc : #1 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507024.D Y8260W.M Fri May 09 09:39:01 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B050708MVOWY1

Lab Name: Pace Analytical Services
 SDG No.: JPL105
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: B050708MVOWY1
 Lab File ID: Y0507022.D
 Date Collected: _____
 Date Analyzed: 05/07/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
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28					
29					
30					

Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507022.D Vial: 5
Acq On : 7 May 2008 17:09 Operator: DGA
Sample : B050708MVOWY1 Inst : yoda
Misc : 5mL PFW+IS/SS (MV8-45-10) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507022.D Y8260W.M Tue May 20 14:38:13 2008

Metals Data

JPL105

COVER PAGE-INORGANIC ANALYSES DATA PACKAGE

Lab Name: Pace Analytical Services, Inc.

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL105

SOW No.: _____

Sample No.	Lab Sample ID
MW-18-5	JPL105-001
MW-18-5MS	JPL105-001MS
MW-18-5MSD	JPL105-001MSD
MW-18-4	JPL105-002
MW-18-3	JPL105-003
MW-18-2	JPL105-004
MW-18-1	JPL105-005
EB-08-05/05/08	JPL105-006
DUPE-2-2Q08	JPL105-007
DUPE-2-2Q08MS	JPL105-007MS
DUPE-2-2Q08MSD	JPL105-007MSD

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No NO

If yes-was raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is technically complete, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: *Bill Ambacher*

Name: Bill Ambacher

Date: 6/14/08

Title: Inorganics Technical Director

Metals Analysis Data Sheets

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-18-5

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorinLab Code: PACESDG No.: JPL105Matrix (soil/water): WaterLab Sample ID: JPL105-001Level (low/med): LOWDate Received: 05/06/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.03			M	R028287
7440-70-2	Calcium	11600			P	R028697
7440-47-3	Chromium	3.21			M	R028287
7439-89-6	Iron	132			P	R028697
7439-92-1	Lead	1.00	U		M	R028287
7439-95-4	Magnesium	5000	U		P	R028697
7440-09-7	Potassium	5000	U		P	R028697
7440-23-5	Sodium	51600			P	R028697

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: NoComment _____

Date Printed: 6/14/2008 8:38

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-18-4

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorinLab Code: PACESDG No.: JPL105Matrix (soil/water): WaterLab Sample ID: JPL105-002Level (low/med): LOWDate Received: 05/06/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.45			M	R028287
7440-70-2	Calcium	42100			P	R028697
7440-47-3	Chromium	6.03			M	R028287
7439-89-6	Iron	597			P	R028697
7439-92-1	Lead	1.00	U		M	R028287
7439-95-4	Magnesium	14300			P	R028697
7440-09-7	Potassium	5000	U		P	R028697
7440-23-5	Sodium	31100			P	R028697

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/14/2008 8:38

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-18-3

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorinLab Code: PACESDG No.: JPL105Matrix (soil/water): WaterLab Sample ID: JPL105-003Level (low/med): LOWDate Received: 05/06/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.49			M	R028287
7440-70-2	Calcium	64000			P	R028697
7440-47-3	Chromium	7.40			M	R028287
7439-89-6	Iron	100	U		P	R028697
7439-92-1	Lead	1.00	U		M	R028287
7439-95-4	Magnesium	19100			P	R028697
7440-09-7	Potassium	5000	U		P	R028697
7440-23-5	Sodium	22700			P	R028697

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: NoComment _____

Date Printed: 6/14/2008 8:38

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-18-2

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorinLab Code: PACESDG No.: JPL105Matrix (soil/water): WaterLab Sample ID: JPL105-004Level (low/med): LOWDate Received: 05/06/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.24			M	R028287
7440-70-2	Calcium	59000			P	R028697
7440-47-3	Chromium	3.64			M	R028287
7439-89-6	Iron	339			P	R028697
7439-92-1	Lead	1.00	U		M	R028287
7439-95-4	Magnesium	20000			P	R028697
7440-09-7	Potassium	5000	U		P	R028697
7440-23-5	Sodium	20700			P	R028697

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/14/2008 8:38

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-18-1

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL105

Matrix (soil/water): Water

Lab Sample ID: JPL105-005

Level (low/med): LOW

Date Received: 05/06/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028287
7440-70-2	Calcium	53900			P	R028697
7440-47-3	Chromium	4.09			M	R028287
7439-89-6	Iron	429			P	R028697
7439-92-1	Lead	1.00	U		M	R028287
7439-95-4	Magnesium	18200			P	R028697
7440-09-7	Potassium	5000	U		P	R028697
7440-23-5	Sodium	18100			P	R028697

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/14/2008 8:38

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-08-05/05/08

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorinLab Code: PACESDG No.: JPL105Matrix (soil/water): WaterLab Sample ID: JPL105-006Level (low/med): LOWDate Received: 05/06/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028287
7440-70-2	Calcium	5000	U		P	R028697
7440-47-3	Chromium	2.30			M	R028287
7439-89-6	Iron	100	U		P	R028697
7439-92-1	Lead	1.00	U		M	R028287
7439-95-4	Magnesium	5000	U		P	R028697
7440-09-7	Potassium	5000	U		P	R028697
7440-23-5	Sodium	5000	U		P	R028697

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No
 Comment _____

Date Printed: 6/14/2008 8:38

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

DUPE-2-2Q08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL105

Matrix (soil/water): Water

Lab Sample ID: JPL105-007

Level (low/med): LOW

Date Received: 05/06/2008

% Solids: _____

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-38-2	Arsenic	1.00	U		M	R028382
7440-70-2	Calcium	54900			P	R028697
7440-47-3	Chromium	2.19			M	R028382
7439-89-6	Iron	312			P	R028697
7439-92-1	Lead	1.00	U		M	R028382
7439-95-4	Magnesium	18500			P	R028697
7440-09-7	Potassium	5000	U		P	R028697
7440-23-5	Sodium	18900			P	R028697

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: No

Comment _____

Date Printed: 6/14/2008 8:38

Miscellaneous Inorganic Data

JPL105

COVER PAGE-INORGANIC ANALYSES DATA PACKAGE

Lab Name: Pace Analytical Services, Inc.

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL105

SOW No.: _____

<u>Sample No.</u>
<u>MW-18-5</u>
<u>MW-18-4</u>
<u>MW-18-3</u>
<u>MW-18-2</u>
<u>MW-18-1</u>
<u>EB-08-05/05/08</u>
<u>DUPE-2-2Q08</u>

<u>Lab Sample ID</u>
<u>JPL105-001</u>
<u>JPL105-002</u>
<u>JPL105-003</u>
<u>JPL105-004</u>
<u>JPL105-005</u>
<u>JPL105-006</u>
<u>JPL105-007</u>

Comments:

I certify that this data package is technically complete, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: 

Name: Ron J. Nino

Date: June 03, 2008

Title: Inorganic Supervisor

Inorganic Analysis Data Sheets

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL105
Sample Number: MW-18-5 **Date/Time Collected:** 05/05/2008 08:15
Lab Sample ID: JPL105-001 **Date/Time Received:** 05/06/2008 08:35
Method/Qbatch*: E150.1/29057 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	8.5		0.10	0.10	05/06/2008	05/06/2008	R027855

Method/Qbatch*: E160.1/29130 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	150		2.0	2.0	05/08/2008	05/12/2008	R027914

Method/Qbatch*: E300.0/29118 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027899\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Sulfate	14808-79-8	1	6.6		1.0	0.17	05/06/2008	05/06/2008	R027899
Chloride	16887-00-6	10	11		10	0.76	05/06/2008	05/06/2008	R027899
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	05/06/2008	05/06/2008	R027899

Method/Qbatch*: E310.1/29390 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	24		2.0	2.0	05/16/2008	05/16/2008	R028168
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	96		2.0	2.0	05/16/2008	05/16/2008	R028168

Method/Qbatch*: E314.0/29574 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	05/23/2008	05/27/2008	R028321

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL105
Sample Number: MW-18-4 **Date/Time Collected:** 05/05/2008 08:55
Lab Sample ID: JPL105-002 **Date/Time Received:** 05/06/2008 08:35
Method/Qbatch*: E150.1/29057 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.8		0.10	0.10	05/06/2008	05/06/2008	R027855

Method/Qbatch*: E160.1/29130 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	230		2.0	2.0	05/08/2008	05/12/2008	R027914

Method/Qbatch*: E300.0/29118 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027899\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Sulfate	14808-79-8	10	30		10	1.7	05/06/2008	05/07/2008	R027899
Chloride	16887-00-6	10	15		10	0.76	05/06/2008	05/07/2008	R027899
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	05/06/2008	05/07/2008	R027899

Method/Qbatch*: E310.1/29390 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/16/2008	05/16/2008	R028168
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	170		2.0	2.0	05/16/2008	05/16/2008	R028168

Method/Qbatch*: E314.0/29574 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	34		2.0	0.28	05/23/2008	05/27/2008	R028321

*QBatch=QC/Preparation Batch

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Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL105
Sample Number: MW-18-3 **Date/Time Collected:** 05/05/2008 09:33
Lab Sample ID: JPL105-003 **Date/Time Received:** 05/06/2008 08:35
Method/Qbatch*: E150.1/29057 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.7		0.10	0.10	05/06/2008	05/06/2008	R027855

Method/Qbatch*: E160.1/29130 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	290		2.0	2.0	05/08/2008	05/12/2008	R027914

Method/Qbatch*: E300.0/29118 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027899\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Sulfate	14808-79-8	10	39		10	1.7	05/06/2008	05/07/2008	R027899
Chloride	16887-00-6	10	18		10	0.76	05/06/2008	05/07/2008	R027899
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	05/06/2008	05/07/2008	R027899

Method/Qbatch*: E310.1/29390 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/16/2008	05/16/2008	R028168
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	200		2.0	2.0	05/16/2008	05/16/2008	R028168

Method/Qbatch*: E314.0/29574 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	43		2.0	0.28	05/23/2008	05/27/2008	R028321

*QBATCH=QC/Preparation Batch

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Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL105
Sample Number: MW-18-2 **Date/Time Collected:** 05/05/2008 10:13
Lab Sample ID: JPL105-004 **Date/Time Received:** 05/06/2008 08:35
Method/Qbatch*: E150.1/29057 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.4		0.10	0.10	05/06/2008	05/06/2008	R027855

Method/Qbatch*: E160.1/29130 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	260		2.0	2.0	05/08/2008	05/12/2008	R027914

Method/Qbatch*: E300.0/29118 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027899\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Sulfate	14808-79-8	10	40		10	1.7	05/06/2008	05/07/2008	R027899
Chloride	16887-00-6	10	13		10	0.76	05/06/2008	05/07/2008	R027899
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	05/06/2008	05/07/2008	R027899

Method/Qbatch*: E310.1/29390 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/16/2008	05/16/2008	R028168
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	180		2.0	2.0	05/16/2008	05/16/2008	R028168

Method/Qbatch*: E314.0/29574 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	05/23/2008	05/27/2008	R028321

*QBatch=QC/Preparation Batch

1N0-10

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL105
Sample Number: MW-18-1 **Date/Time Collected:** 05/05/2008 10:59
Lab Sample ID: JPL105-005 **Date/Time Received:** 05/06/2008 08:35
Method/Qbatch*: E150.1/29057 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	6.8		0.10	0.10	05/06/2008	05/06/2008	R027855

Method/Qbatch*: E160.1/29130 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	260		2.0	2.0	05/08/2008	05/12/2008	R027914

Method/Qbatch*: E300.0/29118 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027899\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Sulfate	14808-79-8	10	41		10	1.7	05/06/2008	05/07/2008	R027899
Chloride	16887-00-6	10	18		10	0.76	05/06/2008	05/07/2008	R027899
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	05/06/2008	05/07/2008	R027899

Method/Qbatch*: E310.1/29390 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/16/2008	05/16/2008	R028168
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	160		2.0	2.0	05/16/2008	05/16/2008	R028168

Method/Qbatch*: E314.0/29574 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	05/23/2008	05/27/2008	R028321

*QBatch=QC/Preparation Batch

110-12

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL105
Sample Number: EB-08-05/05/08 **Date/Time Collected:** 05/05/2008 10:39
Lab Sample ID: JPL105-006 **Date/Time Received:** 05/06/2008 08:35
Method/Qbatch*: E150.1/29057 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	6.6		0.10	0.10	05/06/2008	05/06/2008	R027855

Method/Qbatch*: E160.1/29130 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	2.0	U	2.0	2.0	05/08/2008	05/12/2008	R027914

Method/Qbatch*: E300.0/29118 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027899\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Sulfate	14808-79-8	1	1.0	U	1.0	0.17	05/06/2008	05/07/2008	R027899
Chloride	16887-00-6	1	2.7		1.0	0.076	05/06/2008	05/07/2008	R027899
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	05/06/2008	05/07/2008	R027899

Method/Qbatch*: E310.1/29390 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/16/2008	05/16/2008	R028168
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	2.0		2.0	2.0	05/16/2008	05/16/2008	R028168

Method/Qbatch*: E314.0/29574 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	05/23/2008	05/27/2008	R028321

*QBatch=QC/Preparation Batch

100-14

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL105
Sample Number: DUPE-2-2Q08 **Date/Time Collected:** 05/05/2008 00:00
Lab Sample ID: JPL105-007 **Date/Time Received:** 05/06/2008 08:35

Method/Qbatch*: E150.1/29057 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.1		0.10	0.10	05/06/2008	05/06/2008	R027855

Method/Qbatch*: E160.1/29130 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	250		2.0	2.0	05/08/2008	05/12/2008	R027914

Method/Qbatch*: E300.0/29118 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027899\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Sulfate	14808-79-8	10	41		10	1.7	05/06/2008	05/07/2008	R027899
Chloride	16887-00-6	10	18		10	0.76	05/06/2008	05/07/2008	R027899
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	05/06/2008	05/07/2008	R027899

Method/Qbatch*: E310.1/29390 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/16/2008	05/16/2008	R028168
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	160		2.0	2.0	05/16/2008	05/16/2008	R028168

Method/Qbatch*: E314.0/29574 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	05/23/2008	05/27/2008	R028321

*QBatch=QC/Preparation Batch

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Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL105
Sample Number: MW-18-5 **Date/Time Collected:** 05/05/2008 08:15
Lab Sample ID: JPL105-001 **Date/Time Received:** 05/06/2008 08:35

Method/Qbatch*: E150.1/29057 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	8.5		0.10	0.10	05/06/2008	05/06/2008	R027855

Method/Qbatch*: E160.1/29130 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	150		2.0	2.0	05/08/2008	05/12/2008	R027914

Method/Qbatch*: E300.0/29118 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027899\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Sulfate	14808-79-8	1	6.6		1.0	0.17	05/06/2008	05/06/2008	R027899
Chloride	16887-00-6	10	11		10	0.76	05/06/2008	05/06/2008	R027899

Method/Qbatch*: E310.1/29390 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	24		2.0	2.0	05/16/2008	05/16/2008	R028168
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	96		2.0	2.0	05/16/2008	05/16/2008	R028168

Method/Qbatch*: E314.0/29574 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	05/23/2008	05/27/2008	R028321

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL105
Sample Number: MW-18-5 **Date/Time Collected:** 05/05/2008 08:15
Lab Sample ID: JPL105-001 **Date/Time Received:** 05/06/2008 08:35

Method/Qbatch*: E353.2/29179 **Unit:** mg/L
Instrument: Autoanalyzer (5) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Nitrate / Nitrite	N+N	1	0.050	U	0.050	0.016	05/09/2008	05/09/2008	R027966

Method/Qbatch*: E353.2/29224 **Unit:** mg/L
Instrument: Autoanalyzer (5) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.50	U	0.50	0.010	05/09/2008	05/09/2008	R028002

Method/Qbatch*: E354.1/29081 **Unit:** mg/L
Instrument: UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrite - N	14797-65-0	1	0.0050	U	0.0050	0.0012	05/06/2008	05/06/2008	R027870

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL105
Sample Number: MW-18-4 **Date/Time Collected:** 05/05/2008 08:55
Lab Sample ID: JPL105-002 **Date/Time Received:** 05/06/2008 08:35
Method/Qbatch*: E150.1/29057 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.8		0.10	0.10	05/06/2008	05/06/2008	R027855

Method/Qbatch*: E160.1/29130 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	230		2.0	2.0	05/08/2008	05/12/2008	R027914

Method/Qbatch*: E300.0/29118 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027899\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Sulfate	14808-79-8	10	30		10	1.7	05/06/2008	05/07/2008	R027899
Chloride	16887-00-6	10	15		10	0.76	05/06/2008	05/07/2008	R027899

Method/Qbatch*: E310.1/29390 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/16/2008	05/16/2008	R028168
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	170		2.0	2.0	05/16/2008	05/16/2008	R028168

Method/Qbatch*: E314.0/29574 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	34		2.0	0.28	05/23/2008	05/27/2008	R028321

*QBatch=QC/Preparation Batch

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Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL105
Sample Number: MW-18-4 **Date/Time Collected:** 05/05/2008 08:55
Lab Sample ID: JPL105-002 **Date/Time Received:** 05/06/2008 08:35
Method/Qbatch*: E353.2/29179 **Unit:** mg/L
Instrument: Autoanalyzer (5) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Nitrate / Nitrite	N+N	1	1.7		0.050	0.016	05/09/2008	05/09/2008	R027966

Method/Qbatch*: E353.2/29224 **Unit:** mg/L
Instrument: Autoanalyzer (5) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	1.7		0.50	0.010	05/09/2008	05/09/2008	R028002

Method/Qbatch*: E354.1/29081 **Unit:** mg/L
Instrument: UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrite - N	14797-65-0	1	0.0050	U	0.0050	0.0012	05/06/2008	05/06/2008	R027870

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL105
Sample Number: MW-18-3 **Date/Time Collected:** 05/05/2008 09:33
Lab Sample ID: JPL105-003 **Date/Time Received:** 05/06/2008 08:35
Method/Qbatch*: E150.1/29057 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.7		0.10	0.10	05/06/2008	05/06/2008	R027855

Method/Qbatch*: E160.1/29130 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	290		2.0	2.0	05/08/2008	05/12/2008	R027914

Method/Qbatch*: E300.0/29118 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027899\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Sulfate	14808-79-8	10	39		10	1.7	05/06/2008	05/07/2008	R027899
Chloride	16887-00-6	10	18		10	0.76	05/06/2008	05/07/2008	R027899

Method/Qbatch*: E310.1/29390 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/16/2008	05/16/2008	R028168
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	200		2.0	2.0	05/16/2008	05/16/2008	R028168

Method/Qbatch*: E314.0/29574 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	43		2.0	0.28	05/23/2008	05/27/2008	R028321

*QBatch=QC/Preparation Batch

FORM LTL-RSR-27.0

Date Printed: 5/28/2008 9:11

INO - 8

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL105
Sample Number: MW-18-3 **Date/Time Collected:** 05/05/2008 09:33
Lab Sample ID: JPL105-003 **Date/Time Received:** 05/06/2008 08:35

Method/Qbatch*: E353.2/29179 **Unit:** mg/L
Instrument: Autoanalyzer (5) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Nitrate / Nitrite	N+N	1	1.7		0.050	0.016	05/09/2008	05/09/2008	R027966

Method/Qbatch*: E353.2/29224 **Unit:** mg/L
Instrument: Autoanalyzer (5) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	1.7		0.50	0.010	05/09/2008	05/09/2008	R028002

Method/Qbatch*: E354.1/29081 **Unit:** mg/L
Instrument: UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrite - N	14797-65-0	1	0.0050	U	0.0050	0.0012	05/06/2008	05/06/2008	R027870

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL105
Sample Number: MW-18-2 **Date/Time Collected:** 05/05/2008 10:13
Lab Sample ID: JPL105-004 **Date/Time Received:** 05/06/2008 08:35

Method/Qbatch*: E150.1/29057 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.4		0.10	0.10	05/06/2008	05/06/2008	R027855

Method/Qbatch*: E160.1/29130 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	260		2.0	2.0	05/08/2008	05/12/2008	R027914

Method/Qbatch*: E300.0/29118 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027899\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Sulfate	14808-79-8	10	40		10	1.7	05/06/2008	05/07/2008	R027899
Chloride	16887-00-6	10	13		10	0.76	05/06/2008	05/07/2008	R027899

Method/Qbatch*: E310.1/29390 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO ₃)	3812-32-6	1	2.0	U	2.0	2.0	05/16/2008	05/16/2008	R028168
Alkalinity, Bicarbonate (As CaCO ₃)	71-52-3	1	180		2.0	2.0	05/16/2008	05/16/2008	R028168

Method/Qbatch*: E314.0/29574 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	05/23/2008	05/27/2008	R028321

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL105
Sample Number: MW-18-2 **Date/Time Collected:** 05/05/2008 10:13
Lab Sample ID: JPL105-004 **Date/Time Received:** 05/06/2008 08:35
Method/Qbatch*: E353.2/29179 **Unit:** mg/L
Instrument: Autoanalyzer (5) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Nitrate / Nitrite	N+N	1	1.1		0.050	0.016	05/09/2008	05/09/2008	R027966

Method/Qbatch*: E353.2/29224 **Unit:** mg/L
Instrument: Autoanalyzer (5) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	1.1		0.50	0.010	05/09/2008	05/09/2008	R028002

Method/Qbatch*: E354.1/29081 **Unit:** mg/L
Instrument: UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrite - N	14797-65-0	1	0.0050	U	0.0050	0.0012	05/06/2008	05/06/2008	R027870

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL105
Sample Number: MW-18-1 **Date/Time Collected:** 05/05/2008 10:59
Lab Sample ID: JPL105-005 **Date/Time Received:** 05/06/2008 08:35

Method/Qbatch*: E353.2/29179 **Unit:** mg/L
Instrument: Autoanalyzer (5) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Nitrate / Nitrite	N+N	1	2.3		0.050	0.016	05/09/2008	05/09/2008	R027966

Method/Qbatch*: E353.2/29224 **Unit:** mg/L
Instrument: Autoanalyzer (5) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	2.3		0.50	0.010	05/09/2008	05/09/2008	R028002

Method/Qbatch*: E354.1/29081 **Unit:** mg/L
Instrument: UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrite - N	14797-65-0	1	0.0050	U	0.0050	0.0012	05/06/2008	05/06/2008	R027870

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL105
Sample Number: DUPE-2-2Q08 **Date/Time Collected:** 05/05/2008 00:00
Lab Sample ID: JPL105-007 **Date/Time Received:** 05/06/2008 08:35
Method/Qbatch*: E150.1/29057 **Unit:** pH Units
Instrument: pH meter (1) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
pH	pH	1	7.1		0.10	0.10	05/06/2008	05/06/2008	R027855

Method/Qbatch*: E160.1/29130 **Unit:** mg/L
Instrument: Balance (01) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Dissolved Solids (TDS)	TDS	1	250		2.0	2.0	05/08/2008	05/12/2008	R027914

Method/Qbatch*: E300.0/29118 **Unit:** mg/L
Instrument: Ion Chromatograph (2) **File:** R027899\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Sulfate	14808-79-8	10	41		10	1.7	05/06/2008	05/07/2008	R027899
Chloride	16887-00-6	10	18		10	0.76	05/06/2008	05/07/2008	R027899

Method/Qbatch*: E310.1/29390 **Unit:** mg/L
Instrument: None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2.0	U	2.0	2.0	05/16/2008	05/16/2008	R028168
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	160		2.0	2.0	05/16/2008	05/16/2008	R028168

Method/Qbatch*: E314.0/29574 **Unit:** ug/L
Instrument: Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	05/23/2008	05/27/2008	R028321

*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle **Project:** JPL Groundwater Monitoring
SDG Number: JPL105
Sample Number: DUPE-2-2Q08 **Date/Time Collected:** 05/05/2008 00:00
Lab Sample ID: JPL105-007 **Date/Time Received:** 05/06/2008 08:35
Method/Qbatch*: E353.2/29179 **Unit:** mg/L
Instrument: Autoanalyzer (5) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Nitrate / Nitrite	N+N	1	2.3		0.050	0.016	05/09/2008	05/09/2008	R027966

Method/Qbatch*: E353.2/29224 **Unit:** mg/L
Instrument: Autoanalyzer (5) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	2.3		0.50	0.010	05/09/2008	05/09/2008	R028002

Method/Qbatch*: E354.1/29081 **Unit:** mg/L
Instrument: UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrite - N	14797-65-0	1	0.0050	U	0.0050	0.0012	05/06/2008	05/06/2008	R027870

*QBatch=QC/Preparation Batch

PACE ANALYTICAL SERVICES, INC.

SAMPLE DATA PACKAGE

BATTELLE

SDG NO.: JPL106

June 16, 2008

Pace Analytical Services, Inc.
 940 S. Harney
 Seattle, WA 98108

To: Battelle
 Project Name: JPL Groundwater
 SDG No.: JPL106
 Date of Report: June 16, 2008

SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:

Sample Receipt and Identification:

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<u>Client Sample Identification</u>	<u>Pace Sample Identification</u>	<u>Testing Analytical Request</u>
MW-3-5	JPL106-001	VOA/MET/INO
MW-3-4	JPL106-002	VOA/MET/INO
MW-3-3	JPL106-003	VOA/MET/INO
MW-3-2	JPL106-004	VOA/MET/INO
MW-3-1	JPL106-005	VOA/MET/INO
EB-09-05/06/08	JPL106-006	VOA/MET/INO
TB-09-05/06/08	JPL106-007	VOA

Analytical Request Key:

VOA = Volatiles (524.2)
 MET = Metals (200.7/200.8)
 INO = Chloride, Nitrate, Nitrite, Sulfate, Ortho phosphorus (300.0)
 Alkalinity (310.1)
 Perchlorate (314.0)
 Total Dissolved Solids (160.1)
 pH (150.1)

Summary of NELAC test accreditation

Determination	NELAC approved
150.1 pH	YES
160.1 Total Dissolved Solids	YES
200.7 K, Na, Mg, Ca, Fe	YES
200.8 As, Cr, Pb	YES
300.0 NO3, NO2, Cl, SO4, OPO4	YES
310.1M Carb./Bicarb. Alkalinity	YES
314.0 Perchlorate	YES
524.2 Volatile Organics + TICs (JPL Special list)	YES
TurMet for 200.7/200.8 TurMet	NO

We assert that the results reported here relate only to the samples listed in this report.

Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

Sample Receipt Comments:

The following discrepancies were noted in association with the receipt of these samples. Two of two volatiles bottles submitted for TB-09-05/06/08 contained bubbles of greater than 1/4 inch in size. All samples submitted for pH analysis were received after the analytical holding time had expired.

GENERAL REMARKS ON ORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

Manual Integrations:

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

Holding Time Compliance:

Volatile Organic Compounds:

The holding time is 14 days calculated from the date of collection in both soil and water samples. All samples were analyzed within holding times.

Volatiles Fraction:

Quality Control Analyses:

MS/MSD analyses performed on sample MW-3-1 yielded all recoveries and RPD values within the control limits. Except for cis-1,3-dichloropropene, which recovered high, all spiking analytes in the blank spike analysis recovered within control limits. Because cis-1,3-dichloropropene was not detected in any of the associated samples, no further action was taken.

All other quality control parameters were met.

GENERAL REMARKS ON INORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

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Seattle, WA 98108

ICP Metals:

On the first timed and dated page of each ICP run, the data to be reported or rejected will be tabulated for that run.

SPECIFIC REMARKS ON INORGANIC ANALYSES:

Holding Time Compliance:

Pace calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None
Chloride	28 days	None
Sulfate	28 days	None
Nitrate	48 hours	None
Nitrite	48 hours	None
Ortho phosphorus	48 hours	None
Alkalinity	14 days	None
Total Dissolved Solids	7 days	None
pH	15 minutes	All samples

ICP Metals:

For the run sequence R028697, the ICV exceeded the upper control limit for potassium. All samples contained concentrations of potassium that were less than the CRDL. Quality control data for potassium were reported and were within control limits. No corrective action was required. Data have not been flagged for this event.

The matrix spike sample and matrix spike duplicate sample percent recoveries of iron were outside of the established control limits of 70-130% for sample MW-3-1. Laboratory control samples were analyzed and were within control limits. No further corrective action was required. All relevant data have been flagged with an "N" on Forms I and 5C.

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The matrix spike sample and matrix spike duplicate sample relative percent difference for iron was outside the control limits of $\pm 20\%$ for sample MW-3-1. No further corrective action was required. All relevant data have been flagged with an "*" on Forms I and 5C.

The serial dilution for the elements calcium, magnesium, and sodium did not agree within 10% of the original determination after correction for dilution for sample MW-3-1. No further corrective action was required. All relevant data have been flagged with an "E" on the applicable Forms I and 9.

ICP-MS Metals:

For the run sequence R028287, CCV4 exceeded control limits. CCV4 was re-analyzed and was within control limits. Due to this corrective action, one extra injection time was added, with a total of eleven injection times, between CCV3/CCB3 and CCV4/CCB4. Re-analyzed data was reported for CCV4. No further corrective action was taken. Data have not been flagged for this event.

Miscellaneous Inorganics:

For run sequence R027918, the third continuing calibration verification recovered high for chloride. All bracketed samples were less than the reporting limit. Therefore, no further action was taken.

For run sequence R027961, the blank spike recovered low for the orthophosphate analysis. No samples were reported for this element. Therefore, no further action was taken.

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ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
 - J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
 - T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
 - E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
 - P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
 - C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
 - ~ This result has been identified as non-primary based on the analyst's professional judgment.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

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Seattle, WA 98108

INORGANIC ANALYSES:

- J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.
 - E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.
 - N Spiked sample recovery not within control limits.
 - * Duplicate analysis not within control limits.
 - Z Denotes data deemed unusable by the analyst.
- CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

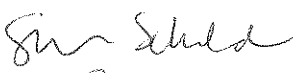
Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

RELEASE OF DATA

Pace Analytical Services, Inc. certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,


Per
Kara Godineaux
Project Manager

6/18/08
(DATE)


Harry Romberg
Quality Assurance Officer

6/18/08
(DATE)

HOW TO CONTACT US:

All Pace Analytical Services, Inc. staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

REQUESTS FOR DUPLICATE COPIES:

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Pace will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

ATTACHMENT A

Chain-of-Custody Copies

PACE ANALYTICAL SERVICES, INC. - SAMPLE CONFIRMATION LOG

Sample ID (SDG-#)	VTSR	Collected On	Client ID	150.1 pH	160.1 Total Dissolved Solids	200.7 K, Na, Mg, Ca, Fe	200.8 As, Cr, Pb	300.0 NO3, NO2, Cl, SO4, OPO4	310.1M Carb./Bicarb. Alkalinity	314.0 Perchlorate	524.2 Volatile Organics + TICs (JPL Special list)	TurMet for 200.7/200.8 TurMet
WD JPL106- 001	05/07/2008 10:30 AM	05/06/2008 08:08 AM	MW-3-5	A-	IN	IN	IN	IN	IN	IN	IN	IN
WD JPL106- 002	05/07/2008 10:30 AM	05/06/2008 08:49 AM	MW-3-4	A-	IN	IN	IN	IN	IN	IN	IN	IN
WD JPL106- 003	05/07/2008 10:30 AM	05/06/2008 09:35 AM	MW-3-3	A-	IN	IN	IN	IN	IN	IN	IN	IN
WD JPL106- 004	05/07/2008 10:30 AM	05/06/2008 10:15 AM	MW-3-2	A-	IN	IN	IN	IN	IN	IN	IN	IN
WD *JPL106- 005	05/07/2008 10:30 AM	05/06/2008 10:55 AM	MW-3-1	A-	IN	IN	IN	IN	IN	IN	IN	IN
WD JPL106- 006	05/07/2008 10:30 AM	05/06/2008 10:37 AM	EB-09- 05/06/08	A-	IN	IN	IN	IN	IN	IN	IN	IN
WD JPL106- 007	05/07/2008 10:30 AM	05/06/2008 12:00 AM	TB-09- 05/06/08								IN	

Approved By: _____
Notes: _____

Samples identified with a '*' client has requested QC for

LEGEND: -:Started, +:Completed, IN:Logged In, P:Preparation, A:Analysis, X:Cancelled, PL:Pre-logged
Matrices: Water=WD
FORM LTL-PM-8.0

Cooler Receipt Form
Pace Analytical Services, Inc.

SDG: JPL106

Taken By: Client

Cooler: AAD833

Transferred: FedEx

COC #: 46081

Project: JPL Groundwater Monitoring (Battelle)

Date samples were received at the laboratory: 5/7/2008

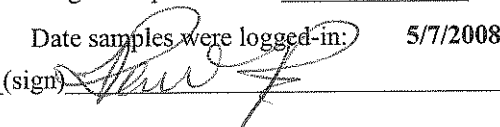
Date cooler was opened: 5/7/2008 10:30AM

A. PRELIMINARY EXAMINATION PHASE:

1. Did cooler come with a shipping slip (airbill, etc.)? YES
if YES, record carrier name and airbill number: 865543091353
2. Were custody seals unbroken and intact at the date and time of arrival? ABSENT
Date On Custody Seal: _____ Custody Seals Description: _____
3. Were custody papers sealed in a plastic bag and taped inside to the lid? YES
4. Did you screen samples for radioactivity using the Geiger Counter? NO
5. Were custody papers filled out properly (ink, signed, etc.)? YES
6. Did you sign custody papers in the appropriate place? YES
7. If required, was enough cooling material present? YES
8. Have designated person initial here to acknowledge receipt of cooler: RF

B. LOG-IN PHASE:

Date samples were logged-in: 5/7/2008 11:10AM

Logged-in by Rachel Frank (sign) 

9. Describe type of packing in cooler:

10. Were all bottles sealed in separate plastic bags? NO
11. Were labels in good condition? YES
12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)? YES
13. Did all bottle labels agree with custody papers? YES
14. Were correct containers used for the tests indicated? YES
15. Were the correct pHs observed? YES
16. Was a sufficient amount of sample sent for tests indicated? YES
17. Were bubbles absent in VOA samples? NO
18. Temperatures: 2.4

DISCREPANCIES:

2 of 2 Trip Blanks have bubbles >1/4"

Samples 1, 2, 3, and 4 were received out of hold for PH, samples 5 and 6 went out of hold for PH while I was logging in the samples.

Date Printed: 5/7/2008 11:13

Supplemental Sample Receipt Log
Pace Analytical Services, Inc.

SDG: JPL106
Cooler: AAD833
Temperatures: 2.4
COC #: 46081

Sample	Bottle #	Bottle Description	pH	Bubbles
JPL106-001	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL106-002	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL106-003	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL106-004	0001	1000 mL cylinder, poly	7	N/A
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL106-005	0001	1000 mL cylinder, poly	7	N/A
	0002	1000 mL cylinder, poly	7	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	40 ml OTWS, clear glass, HCl	N/C	None
	0007	40 ml OTWS, clear glass, HCl	N/C	None
	0008	40 ml OTWS, clear glass, HCl	N/C	None
	0009	500 ml cylinder, poly, HNO3	<2	N/A
	0010	500 ml cylinder, poly, HNO3	<2	N/A
JPL106-006	0001	1000 mL cylinder, poly	7	N/A

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2
Base Preserved pH pH must be greater than 12
NC Not Checked for pH

Supplemental Sample Receipt Log
Pace Analytical Services, Inc.

SDG: JPL106
Cooler: AAD833
Temperatures: 2.4
COC #: 46081

Sample	Bottle #	Bottle Description	pH	Bubbles
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly, HNO3	<2	N/A
JPL106-007	0001	40 ml OTWS, clear glass, HCl	N/C	> 1/4
	0002	40 ml OTWS, clear glass, HCl	N/C	> 1/4

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2
 Base Preserved pH pH must be greater than 12
 NC Not Checked for pH

Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

ATTACHMENT B

Index

Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

Battelle

SDG No.: JPL106

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Completed and checked by: Judy Ecklund Date: 6/18/05

QC SUMMARY

SDG JPL106

VOLATILES ANALYSIS

2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL106

Run Sequence: R027971

Level: (LOW/MED) NONE

CLIENT SAMPLE NUMBER	SMC1 (DCA) #	SMC2 (BFB) #	SMC3 (TOL) #	SMC4 () #	TOT OUT
(JPL106-005MSD) MW-3-1MSD	100	114	99		0
(JPL106-005MS) MW-3-1MS	100	115	101		0
(JPL106-006) EB-09-05/06/08	104	110	97		0
(JPL106-005) MW-3-1	108	113	98		0
(JPL106-004) MW-3-2	104	111	99		0
(JPL106-003) MW-3-3	106	112	100		0
(JPL106-002) MW-3-4	106	112	102		0
(JPL106-001) MW-3-5	104	112	99		0
(JPL106-007) TB-09-05/06/08	102	115	101		0
(B050708MVOWY1) B050708MVOWY1	99	118	100		0
(S050708MVOWY1) S050708MVOWY1	95	121	101		0

QC LIMITS

SMC1 (DCA) =	1,2-Dichloroethane-d4	60-140
SMC2 (BFB) =	4-Bromofluorobenzene	60-140
SMC3 (TOL) =	Toluene-d8	60-140
SMC4 () =		

Column to be used to flag recovery values
* Values outside of contract required QC limits

3B
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 BS Run Sequence: R027971 SDG No.: JPL106
 BS Lab Sample ID: S050708MVOWY1
 Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
Dichlorodifluoromethane	50.0	38.18	76		60-140
Chloromethane	50.0	35.77	72		60-140
Vinyl chloride	50.0	38.73	77		60-140
Bromomethane	50.0	39.46	79		60-140
Chloroethane	50.0	39.93	80		60-140
Trichlorofluoromethane	50.0	42	84		60-140
1,1-Dichloroethene	50.0	42.67	85		60-140
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	39.57	79		60-140
Methylene chloride	50.0	40.52	81		60-140
Methyl tert-butyl ether	50.0	46.34	93		60-140
trans-1,2-Dichloroethene	50.0	39.45	79		60-140
1,1-Dichloroethane	50.0	39.21	78		60-140
2,2-Dichloropropane	50.0	41.29	83		60-140
cis-1,2-Dichloroethene	50.0	42	84		60-140
2-Butanone	50.0	64.36	129		60-140
Bromochloromethane	50.0	42.88	86		60-140
Chloroform	50.0	39.4	79		60-140
1,1,1-Trichloroethane	50.0	41.1	82		60-140
Carbon tetrachloride	50.0	43.98	88		60-140
1,1-Dichloropropene	50.0	49.52	99		60-140
Benzene	50.0	44.39	89		60-140
1,2-Dichloroethane	50.0	46.05	92		60-140
Trichloroethene	50.0	45.1	90		60-140
1,2-Dichloropropane	50.0	47.98	96		60-140
Dibromomethane	50.0	48.25	97		60-140
Bromodichloromethane	50.0	49.33	99		60-140
cis-1,3-Dichloropropene	50.0	74.09	148	*	60-140
4-Methyl-2-pentanone	50.0	62.18	124		60-140
Toluene	50.0	48.62	97		60-140
trans-1,3-Dichloropropene	50.0	58.48	117		60-140
1,1,2-Trichloroethane	50.0	49.82	100		60-140
Tetrachloroethene	50.0	45.78	92		60-140
1,3-Dichloropropane	50.0	55.07	110		60-140
Dibromochloromethane	50.0	54.39	109		60-140

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

Spike Recovery: 1 out of 63 outside limits

COMMENTS:

Date Printed: 5/23/2008 7:49

3B
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 BS Run Sequence: R027971 SDG No.: JPL106
 BS Lab Sample ID: S050708MVOWY1
 Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
1,2-Dibromoethane	50.0	55.45	111		60-140
Chlorobenzene	50.0	46.29	93		60-140
Ethylbenzene	50.0	46.56	93		60-140
1,1,1,2-Tetrachloroethane	50.0	40.83	82		60-140
m,p-Xylene	100	94.82	95		60-140
o-Xylene	50.0	44.32	89		60-140
Styrene	50.0	49.31	99		60-140
Bromoform	50.0	49.74	99		60-140
Isopropylbenzene	50.0	45.89	92		60-140
1,1,2,2-Tetrachloroethane	50.0	50.96	102		60-140
n-Propylbenzene	50.0	54.74	109		60-140
Bromobenzene	50.0	53.92	108		60-140
1,2,3-Trichloropropane	50.0	54.92	110		60-140
2-Chlorotoluene	50.0	50.93	102		60-140
1,3,5-Trimethylbenzene	50.0	48.94	98		60-140
4-Chlorotoluene	50.0	53.3	107		60-140
tert-Butylbenzene	50.0	49.86	100		60-140
1,2,4-Trimethylbenzene	50.0	49.17	98		60-140
sec-Butylbenzene	50.0	49.42	99		60-140
4-Isopropyltoluene	50.0	53.89	108		60-140
1,3-Dichlorobenzene	50.0	45.95	92		60-140
1,4-Dichlorobenzene	50.0	44.97	90		60-140
n-Butylbenzene	50.0	49.83	100		60-140
1,2-Dichlorobenzene	50.0	43.15	86		60-140
1,2-Dibromo-3-chloropropane	50.0	46.27	93		60-140
1,2,4-Trichlorobenzene	50.0	44.38	89		60-140
Hexachlorobutadiene	50.0	42.98	86		60-140
Naphthalene	50.0	47.88	96		60-140
1,2,3-Trichlorobenzene	50.0	41.9	84		60-140

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

Spike Recovery: 1 out of 63 outside limits

COMMENTS:

Date Printed: 5/23/2008 7:49

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorMS Run Sequence: R027971 MSD Run Sequence: R027971 SDG No.: JPL106MS Client Sample No.: MW-3-1MS MSD Client Sample No.: MW-3-1MSDMS Lab Sample ID: JPL106-005MS MSD Lab Sample ID: JPL106-005MSDLevel: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
Dichlorodifluoromethane	0	50.0	42.65	85	50.0	40.01	80	6	30	60-140
Chloromethane	0	50.0	40.05	80	50.0	38.97	78	3	30	60-140
Vinyl chloride	0	50.0	42.36	85	50.0	41.25	83	3	30	60-140
Bromomethane	0	50.0	43.44	87	50.0	41.27	83	5	30	60-140
Chloroethane	0	50.0	43.9	88	50.0	42.06	84	4	30	60-140
Trichlorofluoromethane	0	50.0	49.38	99	50.0	46.01	92	7	30	60-140
1,1-Dichloroethane	0	50.0	44.1	88	50.0	42.53	85	4	30	60-140
1,1,2-Trichloro-1,2,2-trifluoroethane	0	50.0	41.69	83	50.0	38.81	78	7	30	60-140
Methylene chloride	0	50.0	42.09	84	50.0	40.49	81	4	30	60-140
Methyl tert-butyl ether	0	50.0	47.57	95	50.0	46.88	94	2	30	60-140
trans-1,2-Dichloroethene	0	50.0	42.83	86	50.0	41.09	82	4	30	60-140
1,1-Dichloroethane	0	50.0	42.79	86	50.0	40.1	80	7	30	60-140
2,2-Dichloropropane	0	50.0	37.33	75	50.0	34.55	69	8	30	60-140
cis-1,2-Dichloroethene	0	50.0	45.09	90	50.0	41.89	84	7	30	60-140
2-Butanone	0	50.0	60.45	121	50.0	59.8	120	1	30	60-140
Bromochloromethane	0	50.0	45.75	92	50.0	42.19	84	8	30	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

@ This RPD or percent recovery is not flagged as an exceedance because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 0 out of 63 outside limitsSpike Recovery: 0 out of 126 outside limits

COMMENTS:

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitor
 MS Run Sequence: R027971 MSD Run Sequence: R027971 SDG No.: JPL106
 MS Client Sample No.: MW-3-1MS MSD Client Sample No.: MW-3-1MSD
 MS Lab Sample ID: JPL106-005MS MSD Lab Sample ID: JPL106-005MSD
 Level: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
Chloroform	0	50.0	43.46	87	50.0	40.75	82	6	30	60-140
1,1,1-Trichloroethane	0	50.0	46.65	93	50.0	44.04	88	6	30	60-140
Carbon tetrachloride	0	50.0	48.51	97	50.0	46.1	92	5	30	60-140
1,1-Dichloropropene	0	50.0	51.97	104	50.0	49.77	100	4	30	60-140
Benzene	0	50.0	47.71	95	50.0	44.79	90	6	30	60-140
1,2-Dichloroethane	0	50.0	48.27	97	50.0	46.77	94	3	30	60-140
Trichloroethene	0	50.0	47.9	96	50.0	45.03	90	6	30	60-140
1,2-Dichloropropane	0	50.0	49.54	99	50.0	46.74	93	6	30	60-140
Dibromomethane	0	50.0	48.74	97	50.0	47.38	95	3	30	60-140
Bromodichloromethane	0	50.0	52.27	105	50.0	50.11	100	4	30	60-140
cis-1,3-Dichloropropene	0	50.0	69.75	140	50.0	66.96	134	4	30	60-140
4-Methyl-2-pentane	0	50.0	58.54	117	50.0	58.77	118	0	30	60-140
Toluene	0	50.0	49.41	99	50.0	47.68	95	4	30	60-140
trans-1,3-Dichloropropene	0	50.0	53.9	108	50.0	51.57	103	4	30	60-140
1,1,2-Trichloroethane	0	50.0	47.54	95	50.0	45.77	92	4	30	60-140
Tetrachloroethene	0	50.0	46.54	93	50.0	45.02	90	3	30	60-140
1,3-Dichloropropane	0	50.0	52.13	104	50.0	51.04	102	2	30	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

@ This RPD or percent recovery is not flagged as an exceedence because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 0 out of 63 outside limits

Spike Recovery: 0 out of 126 outside limits

COMMENTS:

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitor
 MS Run Sequence: R027971 MSD Run Sequence: R027971 SDG No.: JPL106
 MS Client Sample No.: MW-3-1MS MSD Client Sample No.: MW-3-1MSD
 MS Lab Sample ID: JPL106-005MS MSD Lab Sample ID: JPL106-005MSD
 Level: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
Dibromochloromethane	0	50.0	54.27	109	50.0	52.8	106	3	30	60-140
1,2-Dibromoethane	0	50.0	51.53	103	50.0	49.89	100	3	30	60-140
Chlorobenzene	0	50.0	46.83	94	50.0	45.02	90	4	30	60-140
Ethylbenzene	0	50.0	47.84	96	50.0	45.63	91	5	30	60-140
1,1,1,2-Tetrachloroethane	0	50.0	42.09	84	50.0	40.23	80	5	30	60-140
m,p-Xylene	0	100	97.03	97	100	92.8	93	5	30	60-140
o-Xylene	0	50.0	45.63	91	50.0	43.61	87	5	30	60-140
Styrene	0	50.0	49.18	98	50.0	47.96	96	3	30	60-140
Bromoform	0	50.0	47.46	95	50.0	46.84	94	1	30	60-140
Isopropylbenzene	0	50.0	48.47	97	50.0	46.36	93	5	30	60-140
1,1,2,2-Tetrachloroethane	0	50.0	47.62	95	50.0	46.52	93	2	30	60-140
n-Propylbenzene	0	50.0	53.71	107	50.0	50.96	102	5	30	60-140
Bromobenzene	0	50.0	52.75	106	50.0	51.33	103	3	30	60-140
1,2,3-Trichloropropane	0	50.0	46.7	93	50.0	44.76	90	4	30	60-140
2-Chlorotoluene	0	50.0	51.46	103	50.0	47.55	95	8	30	60-140
1,3,5-Trimethylbenzene	0	50.0	49.7	99	50.0	46.68	93	6	30	60-140
4-Chlorotoluene	0	50.0	52.96	106	50.0	49.37	99	7	30	60-140
tert-Butylbenzene	0	50.0	50.04	100	50.0	48.41	97	3	30	60-140
1,2,4-Trimethylbenzene	0	50.0	49.36	99	50.0	47.13	94	5	30	60-140
sec-Butylbenzene	0	50.0	49.54	99	50.0	47.7	95	4	30	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

@ This RPD or percent recovery is not flagged as an exceedance because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 0 out of 63 outside limits

Spike Recovery: 0 out of 126 outside limits

COMMENTS:

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical Services Contract: JPL Groundwater MonitorMS Run Sequence: R027971 MSD Run Sequence: R027971 SDG No.: JPL106MS Client Sample No.: MW-3-1MS MSD Client Sample No.: MW-3-1MSDMS Lab Sample ID: JPL106-005MS MSD Lab Sample ID: JPL106-005MSDLevel: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
4-Isopropyltoluene	0	50.0	53.04	106	50.0	50.58	101	5	30	60-140
1,3-Dichlorobenzene	0	50.0	45.92	92	50.0	43.53	87	5	30	60-140
1,4-Dichlorobenzene	0	50.0	44.55	89	50.0	42.08	84	6	30	60-140
n-Butylbenzene	0	50.0	48.31	97	50.0	46.24	92	4	30	60-140
1,2-Dichlorobenzene	0	50.0	44.12	88	50.0	42.16	84	5	30	60-140
1,2-Dibromo-3-chloropropane	0	50.0	43.31	87	50.0	41.44	83	4	30	60-140
1,2,4-Trichlorobenzene	0	50.0	44.63	89	50.0	42.79	86	4	30	60-140
Hexachlorobutadiene	0	50.0	40.75	82	50.0	41.03	82	1	30	60-140
Naphthalene	0	50.0	46.99	94	50.0	45.43	91	3	30	60-140
1,2,3-Trichlorobenzene	0	50.0	42.54	85	50.0	40.93	82	4	30	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

@ This RPD or percent recovery is not flagged as an exceedance because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 0 out of 63 outside limitsSpike Recovery: 0 out of 126 outside limits

COMMENTS:

4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B050708MVOWY1

Lab Name Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL106

Lab File ID: Y0507022.D

Lab Sample ID: B050708MVOWY1

Date Analyzed: 05/07/2008

Time Analyzed: 17:09

GC Column: ZB-624 20m ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: 5973Y

Matrix: Water

	CLIENT SAMPLE NO.	LAB SAMPLE ID.	LAB FILE ID.	DATE ANALYZED	TIME ANALYZED	RUN SEQUENCE
01	S050708MVOWY1	S050708MVOWY1	Y0507019.D	05/07/2008	15:53	R027971
02	TB-09-05/06/08	JPL106-007	Y0507025.D	05/07/2008	18:23	R027971
03	MW-3-5	JPL106-001	Y0507039.D	05/08/2008	00:09	R027971
04	MW-3-4	JPL106-002	Y0507040.D	05/08/2008	00:34	R027971
05	MW-3-3	JPL106-003	Y0507041.D	05/08/2008	00:59	R027971
06	MW-3-2	JPL106-004	Y0507042.D	05/08/2008	01:24	R027971
07	MW-3-1	JPL106-005	Y0507043.D	05/08/2008	01:48	R027971
08	EB-09-05/06/08	JPL106-006	Y0507044.D	05/08/2008	02:13	R027971
09	MW-3-1MS	JPL106-005MS	Y0507045.D	05/08/2008	02:38	R027971
10	MW-3-1MSD	JPL106-005MSD	Y0507046.D	05/08/2008	03:02	R027971
11						
12						
13						
14						
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COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

BFBY5

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 Run Sequence: CAL1310 SDG No.: JPL106
 Lab File ID: Y0414036.D BFB Injection Date: 04/14/2008
 Instrument ID: 5973Y BFB Injection Time: 21:43
 GC Column DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	17.8
75	30% to 60% of mass 95	48.1
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	6.8
173	less than 2% of mass 174	0()1
174	greater than 50% of mass 95	99.4
175	5% to 9% of mass 17	7.2()1
176	greater than 95%, but less than 101% of mass 174	95.4()1
177	5% to 9% of mass 176	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 SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0.3	VSTD0.3	Y0414037.D	04/14/2008	22:08
02	VSTD0.5	VSTD0.5	Y0414038.D	04/14/2008	22:33
03	VSTD001	VSTD001	Y0414039.D	04/14/2008	22:58
04	VSTD005	VSTD005	Y0414040.D	04/14/2008	23:22
05	VSTD010	VSTD010	Y0414041.D	04/14/2008	23:47
06	VSTD050	VSTD050	Y0414042.D	04/15/2008	00:12
07	VSTD100	VSTD100	Y0414043.D	04/15/2008	00:36
08	VSTD200	VSTD200	Y0414044.D	04/15/2008	01:01
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22					

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROENZENE (BFB)

BFBY1

Lab Name: Pace Analytical Services Contract: _____
 Run Sequence: R027335 SDG No.: NBS013 *5/23/08* *PL1076*
 Lab File ID: Y0415011.D BFB Injection Date: 04/15/2008
 Instrument ID: 5973Y BFB Injection Time: 09:55
 GC Column DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	18
75	30% to 60% of mass 95	48.6
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	6.6
173	less than 2% of mass 174	0()1
174	greater than 50% of mass 95	94.8
175	5% to 9% of mass 17	8.3()1
176	greater than 95%, but less than 101% of mass 174	99.1()1
177	5% to 9% of mass 176	6.1()2

1 - Value is %mass 174

2 - Value is %mass 176

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	<i>W/</i> 5041508MVOWY2	S041508MVOWY2	Y0415015.D	04/15/2008	11:39
02					
03					
04					
05					
06					
07					
08					
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22					

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

VSTD050Y6/BFBY7

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitorin
 Run Sequence: R027971 SDG No.: JPL106
 Lab File ID: Y0507018a.d BFB Injection Date: 05/07/2008
 Instrument ID: 5973Y BFB Injection Time: 15:27
 GC Column ZB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	17.1
75	30% to 60% of mass 95	45.3
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	6.8
173	less than 2% of mass 174	0()1
174	greater than 50% of mass 95	101
175	5% to 9% of mass 17	7.5()1
176	greater than 95%, but less than 101% of mass 174	96.5()1
177	5% to 9% of mass 176	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 SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050Y6	VSTD050Y6	Y0507018.D	05/07/2008	15:27
02	S050708MVOWY1	S050708MVOWY1	Y0507019.D	05/07/2008	15:53
03	B050708MVOWY1	B050708MVOWY1	Y0507022.D	05/07/2008	17:09
04	TB-09-05/06/08	JPL106-007	Y0507025.D	05/07/2008	18:23
05	MW-3-5	JPL106-001	Y0507039.D	05/08/2008	00:09
06	MW-3-4	JPL106-002	Y0507040.D	05/08/2008	00:34
07	MW-3-3	JPL106-003	Y0507041.D	05/08/2008	00:59
08	MW-3-2	JPL106-004	Y0507042.D	05/08/2008	01:24
09	MW-3-1	JPL106-005	Y0507043.D	05/08/2008	01:48
10	EB-09-05/06/08	JPL106-006	Y0507044.D	05/08/2008	02:13
11	MW-3-1MS	JPL106-005MS	Y0507045.D	05/08/2008	02:38
12	MW-3-1MSD	JPL106-005MSD	Y0507046.D	05/08/2008	03:02
13					
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22					

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Services Contract: JPL Groundwater Monitoring
 Run Sequence: R027971 SDG No.: JPL106
 Client Sample No.(VSTD050##): VSTD050Y6 Date Analyzed: 05/07/2008
 Lab File ID (Standard): Y0507018.D Time Analyzed: 15:27
 Instrument ID: 5973Y Heated Purge: (Y/N) N
 GC Column: ZB-624 20m ID: 0.18 (mm)

	IS1 (FBZ) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	593186	8.23	300549	11.68	344208	13.61
UPPER LIMIT	1186372	8.28	601098	11.73	688416	13.66
LOWER LIMIT	296593	8.18	150274.5	11.63	172104	13.56
CLIENT SAMPLE NO.						
01 S050708MVOWY1	582761	8.23	299914	11.68	342454	13.61
02 B050708MVOWY1	582673	8.23	290232	11.68	351278	13.61
03 TB-09-05/06/08	572548	8.23	279441	11.68	329767	13.61
04 MW-3-5	481620	8.23	242109	11.68	300438	13.61
05 MW-3-4	472741	8.23	232906	11.68	290541	13.61
06 MW-3-3	477806	8.23	235453	11.68	290666	13.61
07 MW-3-2	465848	8.23	229333	11.68	292150	13.61
08 MW-3-1	456586	8.23	235481	11.68	289058	13.61
09 EB-09-05/06/08	464641	8.23	232391	11.68	286827	13.61
10 MW-3-1MS	495514	8.23	259483	11.68	311375	13.61
11 MW-3-1MSD	500283	8.23	262370	11.68	317417	13.61
12						
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22						

IS1 (FBZ) = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

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

Date Printed: 5/23/2008 8:04

SAMPLE DATA

SDG JPL106

VOLATILES ANALYSIS

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-5

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-001
 Lab File ID: Y0507039.D
 Date Collected: 05/06/2008
 Date/Time Analyzed: 05/08/2008 00:09
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-5

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-001
 Lab File ID: Y0507039.D
 Date Collected: 05/06/2008
 Date/Time Analyzed: 05/08/2008 00:09
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.38	J
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-5

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-001
 Lab File ID: Y0507039.D
 Date Collected: 05/06/2008
 Date/Time Analyzed: 05/08/2008 00:09
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

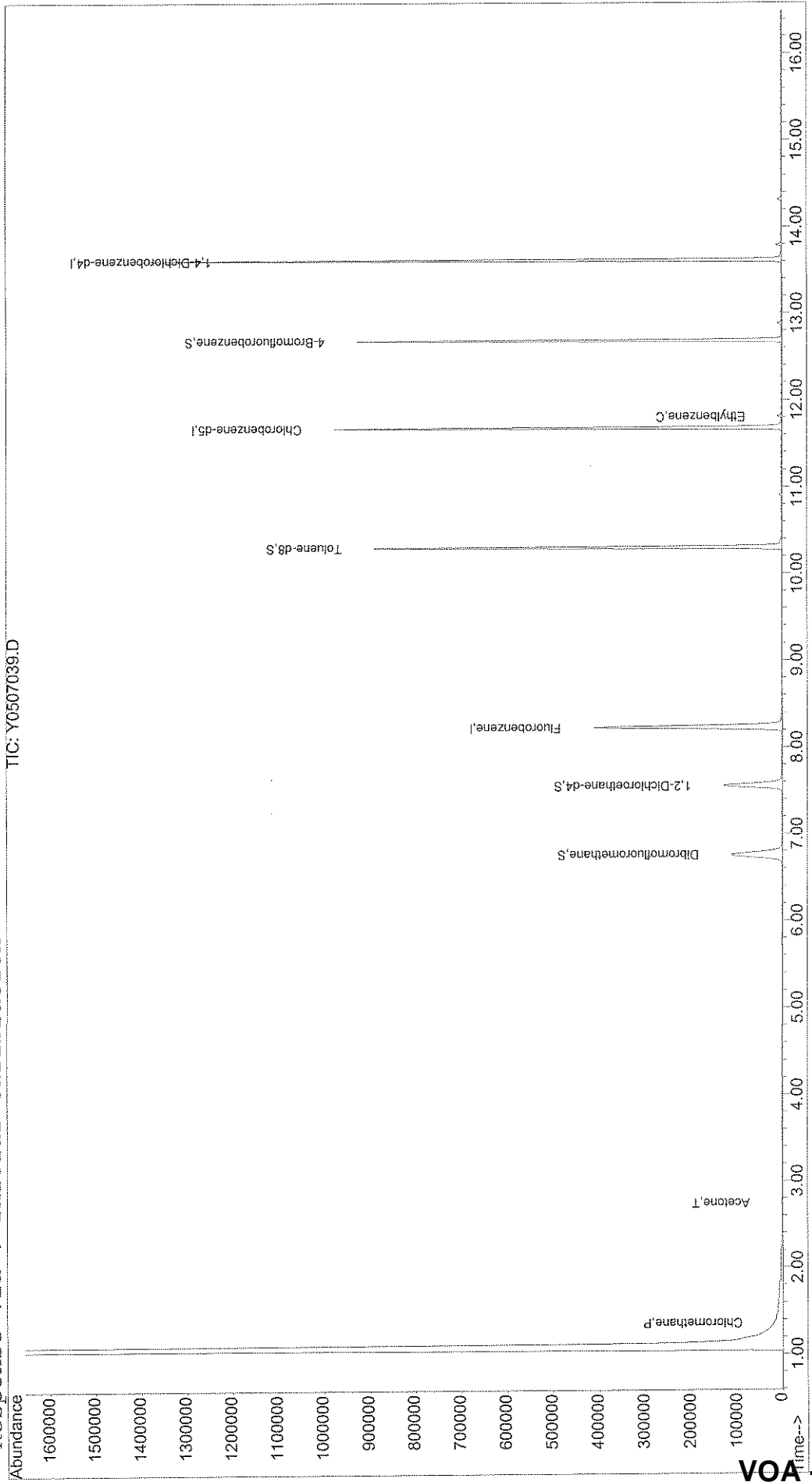
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507039.D Vial: 22
Acq On : 8 May 2008 00:09 Operator: DGA
Sample : JPL106-001 Inst : Yoda
Misc : #2 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 9 12:02 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507039.D
 Acq On : 8 May 2008 00:09
 Sample : JPL106-001
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:02 2008

Vial: 22
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\050608\Y0506014.D (6 May 2008 12:59)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	481620	50.00	ug/l	0.00	94.32%
54) Chlorobenzene-d5	11.68	82	242109	50.00	ug/l	0.00	98.98%
74) 1,4-Dichlorobenzene-d4	13.61	152	300438	50.00	ug/l	0.00	85.73%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	150766	47.85	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	95.70%	
40) 1,2-Dichloroethane-d4	7.56	65	156450	51.99	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.98%	
55) Toluene-d8	10.30	98	520330	49.63	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	99.26%	
76) 4-Bromofluorobenzene	12.68	95	219281	56.14	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	112.28%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	992	0.17	ug/l	76
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.75	43	2747	2.40	ug/l	98
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.87	76	391	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	3.63	96	178	N.D.		
20) Acrylonitrile	3.63	53	167	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	3.68	73	62	N.D.		

(#) = qualifier out of range (m) = manual integration
 Y0507039.D Y8260W.M Fri May 09 12:03:04 2008

J S/gh
 Page 1
VOA - 19

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507039.D
 Acq On : 8 May 2008 00:09
 Sample : JPL106-001
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:02 2008

Vial: 22
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	5.68	43	57		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.65	78	78		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	9.05	83	61		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	9.58	41	72		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.37	92	429		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0		N.D.	
60) Tetrachloroethene	10.91	166	67		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	0.00	43	0		N.D.	d
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	0.00	112	0		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0507039.D Y8260W.M Fri May 09 12:03:04 2008

J. J. W.

Quantitation Report

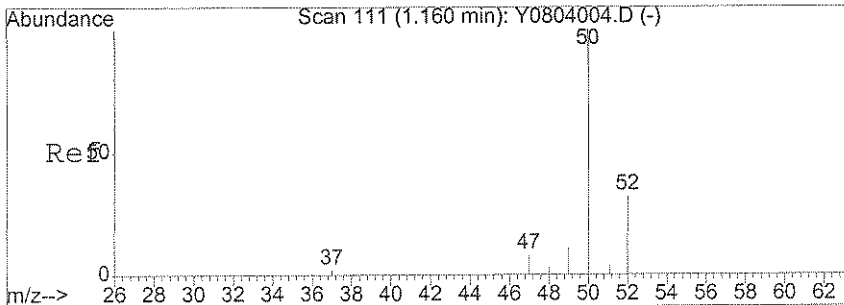
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 Acq On : 8 May 2008 00:09
 Sample : JPL106-001
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:02 2008

Vial: 22
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

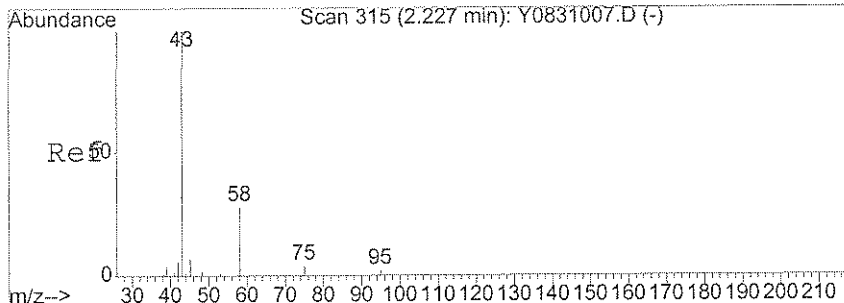
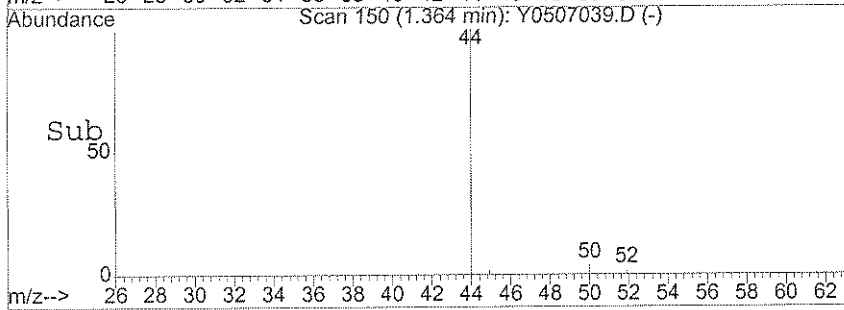
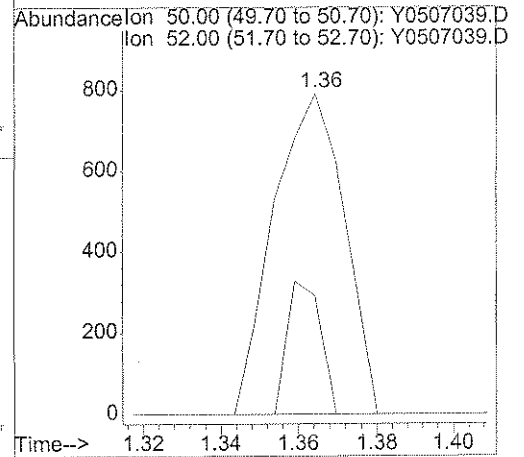
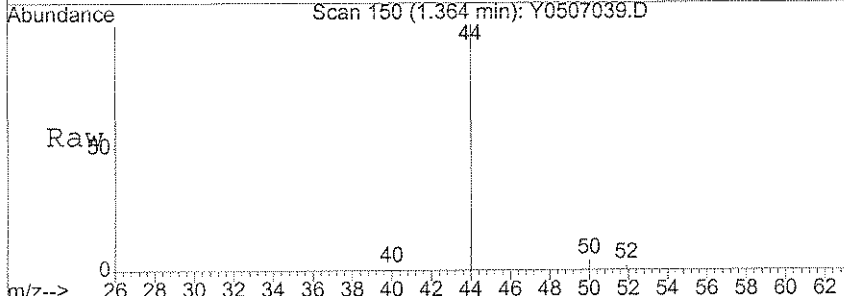
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	5511	0.38	ug/l #	88
69) m,p-Xylene	11.91	106	150	N.D.		
70) o-xylene	0.00	106	0	N.D.		
71) Styrene	12.26	104	1289	N.D.		
72) Bromoform	12.70	173	55	N.D.		
73) Isopropylbenzene	12.56	105	275	N.D.		
75) trans-1,4-Dichloro-2-buten	0.00	53	0	N.D.	d	
77) Bromobenzene	0.00	156	0	N.D.		
78) 1,1,2,2-Tetrachloroethane	12.69	83	68	N.D.		
79) 1,2,3-Trichloropropane	0.00	75	0	N.D.	d	
80) n-Propylbenzene	0.00	120	0	N.D.		
81) 2-Chlorotoluene	12.96	91	71	N.D.		
82) 4-Chlorotoluene	12.96	91	71	N.D.		
83) 1,3,5-Trimethylbenzene	0.00	105	0	N.D.	d	
84) tert-Butylbenzene	0.00	119	0	N.D.	d	
85) 1,2,4-Trimethylbenzene	0.00	105	0	N.D.	d	
86) sec-butylbenzene	0.00	105	0	N.D.	d	
87) 1,3-Dichlorobenzene	13.62	146	84	N.D.		
88) 4-Isopropyltoluene	13.59	119	419	N.D.		
89) 1,4-Dichlorobenzene	13.63	146	206	N.D.		
90) 1,2-Dichlorobenzene	13.92	146	126	N.D.		
91) n-Butylbenzene	13.91	91	354	N.D.		
92) 1,2-Dibromo-3-chloropropan	14.54	75	54	N.D.		
93) 1,2,4-Trichlorobenzene	15.18	180	355	N.D.		
94) Hexachlorobutadiene	15.31	225	239	N.D.		
95) Naphthalene	15.37	128	296	N.D.		
96) 1,2,3-Trichlorobenzene	15.55	180	187	N.D.		



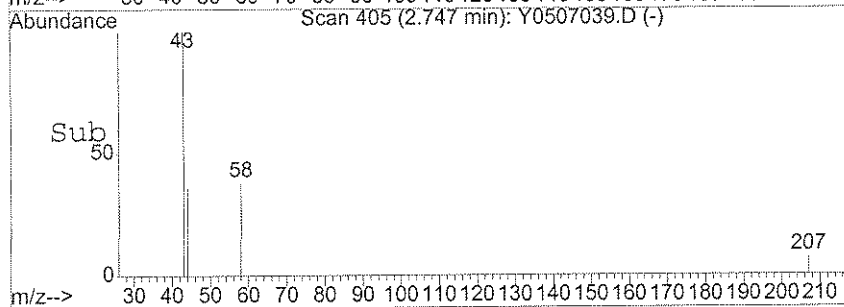
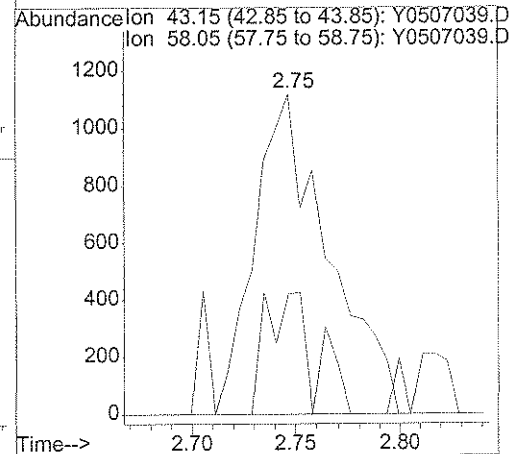
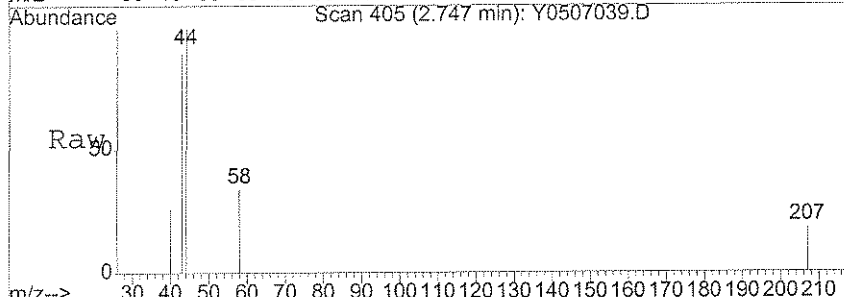
#3
 Chloromethane
 Concen: 0.17 ug/l
 RT: 1.36 min Scan# 150
 Delta R.T. -0.01 min
 Lab File: Y0507039.D
 Acq: 8 May 2008 00:09

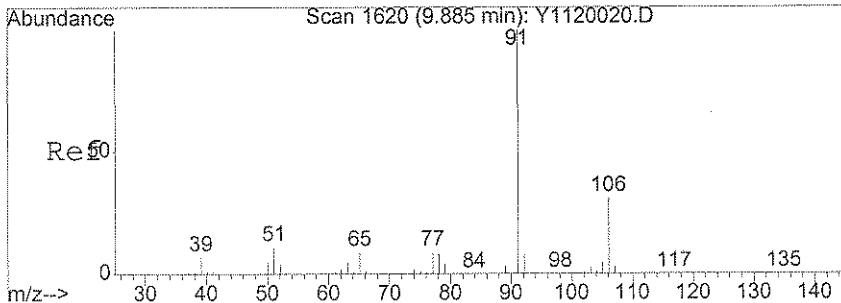
Tgt Ion	Resp	Lower	Upper
50	992		
50	100		
52	19.6	13.0	53.0



#11
 Acetone
 Concen: 2.40 ug/l
 RT: 2.75 min Scan# 405
 Delta R.T. 0.01 min
 Lab File: Y0507039.D
 Acq: 8 May 2008 00:09

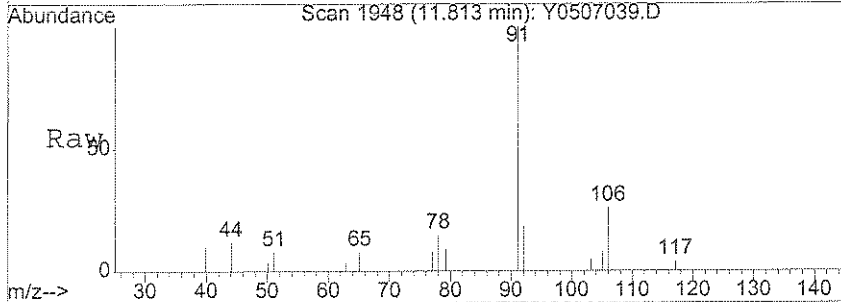
Tgt Ion	Resp	Lower	Upper
43	2747		
43	100		
58	25.6	21.3	31.9



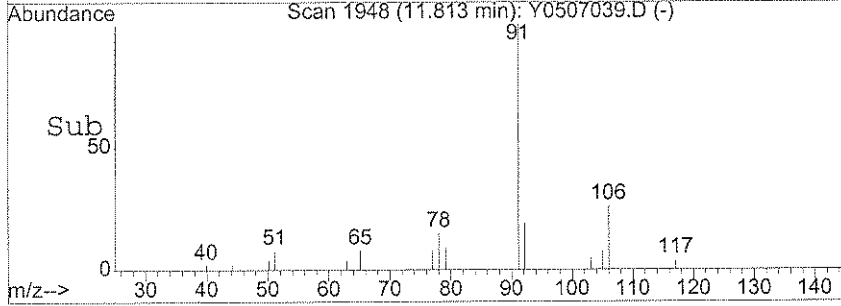
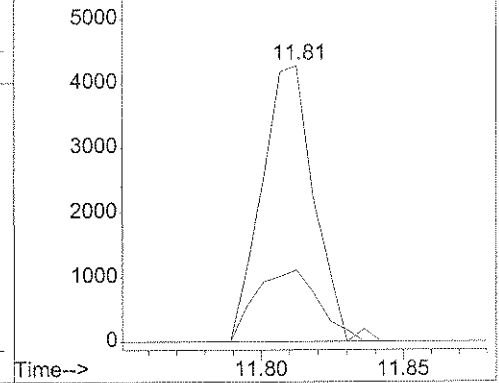


#68
 Ethylbenzene
 Concen: 0.38 ug/l
 RT: 11.81 min Scan# 1948
 Delta R.T. 0.00 min
 Lab File: Y0507039.D
 Acq: 8 May 2008 00:09

Tgt Ion	Resp	Lower	Upper
91	5511		
106	26.1	26.1	39.1#
112	0.0	0.0	0.0



Abundance
 Ion 91.05 (90.75 to 91.75): Y0507039.D
 Ion 106.15 (105.85 to 106.85): Y050703
 Ion 112.05 (111.75 to 112.75): Y050703



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-4

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-002
 Lab File ID: Y0507040.D
 Date Collected: 05/06/2008
 Date/Time Analyzed: 05/08/2008 00:34
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-4

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-002
 Lab File ID: Y0507040.D
 Date Collected: 05/06/2008
 Date/Time Analyzed: 05/08/2008 00:34
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.56	
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.35	J
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-4

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-002
 Lab File ID: Y0507040.D
 Date Collected: 05/06/2008
 Date/Time Analyzed: 05/08/2008 00:34
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

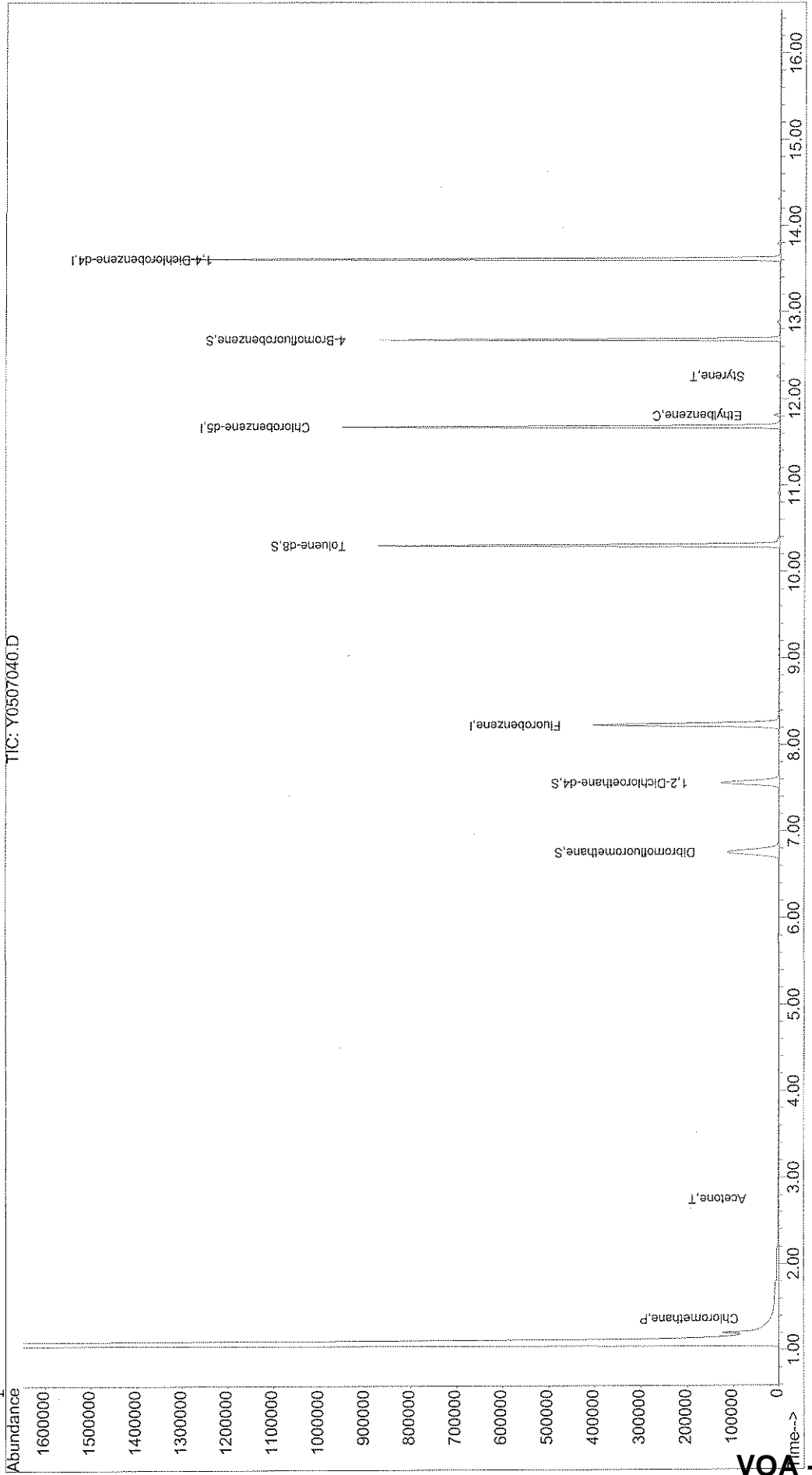
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507040.D
Acq On : 8 May 2008 00:34 Vial: 23
Sample : JPL106-002 Operator: DGA
Misc : #4 5mL+IS/SS(524) Inst : yoda
MS Integration Params: rteint.p Multiplr: 1.00
Quant Time: May 9 12:06 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260 - 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507040.D
 Acq On : 8 May 2008 00:34
 Sample : JPL106-002
 Misc : #4 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:06 2008

Vial: 23
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\050608\Y0506014.D (6 May 2008 12:59)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	472741	50.00	ug/l	0.00	92.58%
54) Chlorobenzene-d5	11.68	82	232906	50.00	ug/l	0.00	95.22%
74) 1,4-Dichlorobenzene-d4	13.61	152	290541	50.00	ug/l	0.00	82.90%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	150918	48.80	ug/l	-0.01	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	97.60%	
40) 1,2-Dichloroethane-d4	7.56	65	156813	53.09	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	106.18%	
55) Toluene-d8	10.30	98	514252	50.99	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	101.98%	
76) 4-Bromofluorobenzene	12.68	95	211532	56.00	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	112.00%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	951	0.17	ug/l	68
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.76	43	1570	1.40	ug/l	96
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.90	76	679	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.	d	
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	3.69	73	70	N.D.		

(#) = qualifier out of range (m) = manual integration
 Y0507040.D Y8260W.M Fri May 09 12:06:33 2008

J. S. L.
 Page 1
VOA - 28

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507040.D
 Acq On : 8 May 2008 00:34
 Sample : JPL106-002
 Misc : #4 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:06 2008

Vial: 23
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	5.39	96	58		N.D.	
30) 2-Butanone	0.00	43	0		N.D.	d
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	6.03	41	54		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.65	78	73		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	10.14	63	54		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.37	92	730		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.91	97	72		N.D.	
60) Tetrachloroethene	10.91	166	71		N.D.	
61) 1,3-Dichloropropane	10.71	76	85		N.D.	
62) 2-Hexanone	11.01	43	103		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	0.00	112	0		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0507040.D Y8260W.M Fri May 09 12:06:33 2008

Quantitation Report

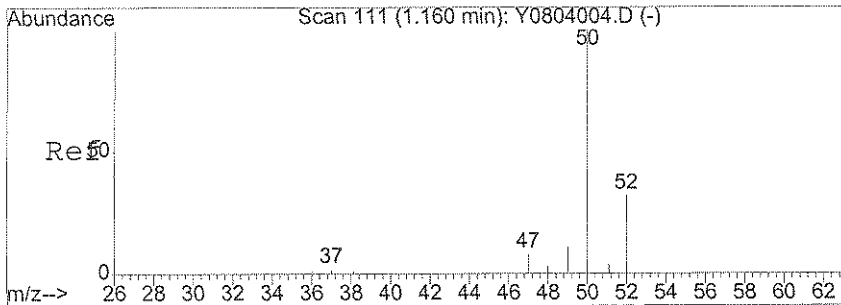
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 Acq On : 8 May 2008 00:34
 Sample : JPL106-002
 Misc : #4 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:06 2008

Vial: 23
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

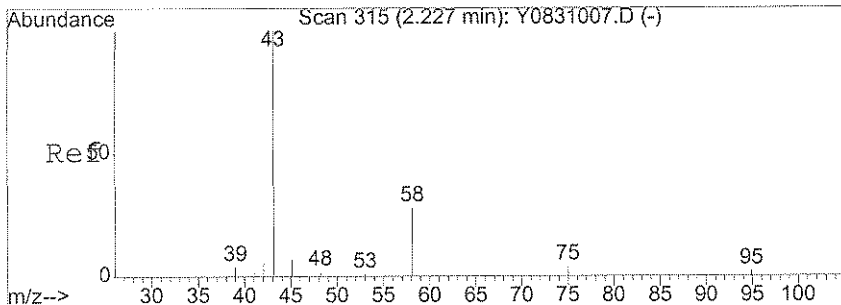
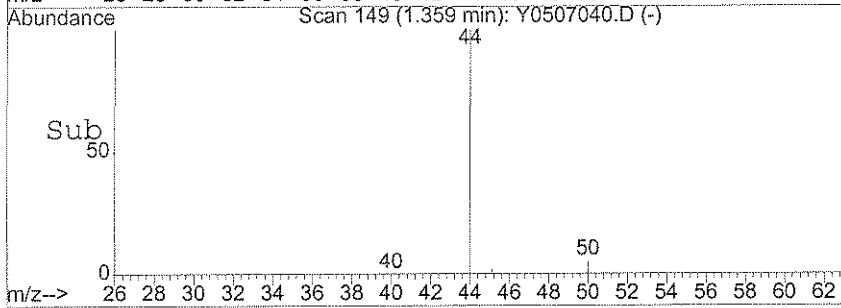
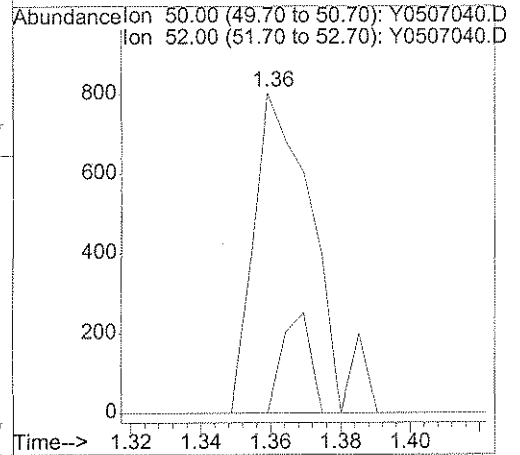
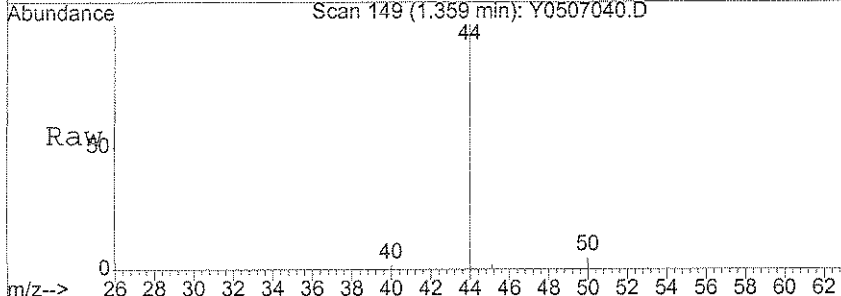
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	7746	0.56	ug/l	94
69) m,p-Xylene	11.91	106	257	N.D.		
70) o-xylene	0.00	106	0	N.D.		
71) Styrene	12.26	104	2999	0.35	ug/l	94
72) Bromoform	12.14	173	53	N.D.		
73) Isopropylbenzene	12.56	105	175	N.D.		
75) trans-1,4-Dichloro-2-buten	0.00	53	0	N.D.		
77) Bromobenzene	12.68	156	65	N.D.		
78) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
79) 1,2,3-Trichloropropane	0.00	75	0	N.D.	d	
80) n-Propylbenzene	0.00	120	0	N.D.		
81) 2-Chlorotoluene	12.89	91	407	N.D.		
82) 4-Chlorotoluene	13.05	91	53	N.D.		
83) 1,3,5-Trimethylbenzene	0.00	105	0	N.D.	d	
84) tert-Butylbenzene	0.00	119	0	N.D.	d	
85) 1,2,4-Trimethylbenzene	0.00	105	0	N.D.	d	
86) sec-butylbenzene	0.00	105	0	N.D.	d	
87) 1,3-Dichlorobenzene	13.56	146	70	N.D.		
88) 4-Isopropyltoluene	13.58	119	114	N.D.		
89) 1,4-Dichlorobenzene	13.63	146	282	N.D.		
90) 1,2-Dichlorobenzene	13.93	146	157	N.D.		
91) n-Butylbenzene	13.90	91	367	N.D.		
92) 1,2-Dibromo-3-chloropropan	0.00	75	0	N.D.		
93) 1,2,4-Trichlorobenzene	15.17	180	211	N.D.		
94) Hexachlorobutadiene	15.31	225	64	N.D.		
95) Naphthalene	15.37	128	222	N.D.		
96) 1,2,3-Trichlorobenzene	15.54	180	395	N.D.		



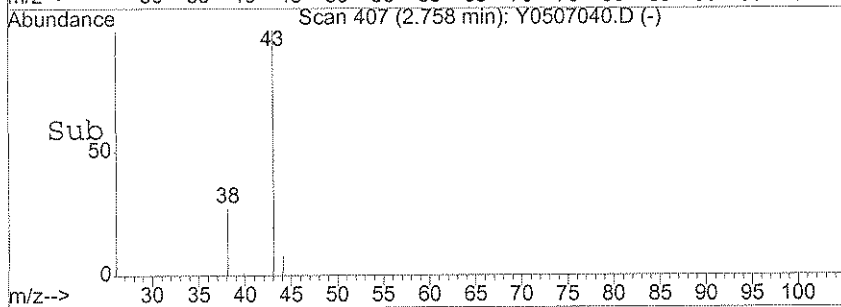
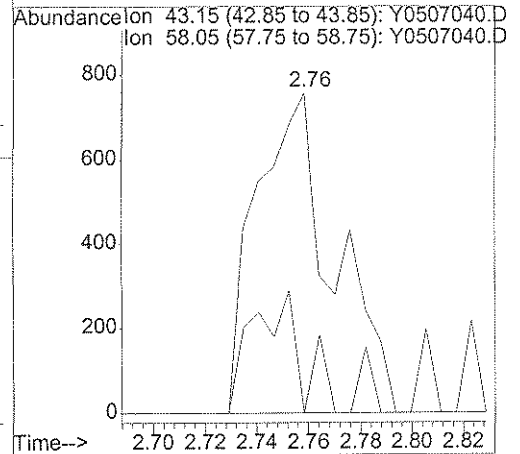
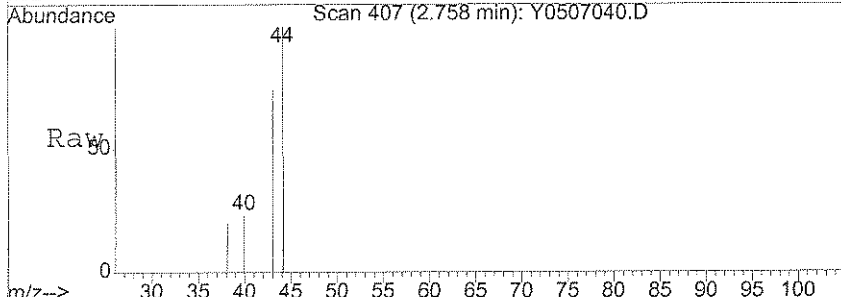
#3
 Chloromethane
 Concen: 0.17 ug/l
 RT: 1.36 min Scan# 149
 Delta R.T. -0.01 min
 Lab File: Y0507040.D
 Acq: 8 May 2008 00:34

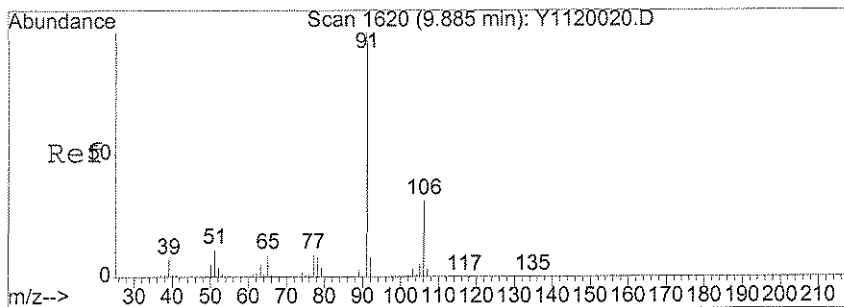
Tgt Ion: 50 Resp: 951
 Ion Ratio Lower Upper
 50 100
 52 15.0 13.0 53.0



#11
 Acetone
 Concen: 1.40 ug/l
 RT: 2.76 min Scan# 407
 Delta R.T. 0.02 min
 Lab File: Y0507040.D
 Acq: 8 May 2008 00:34

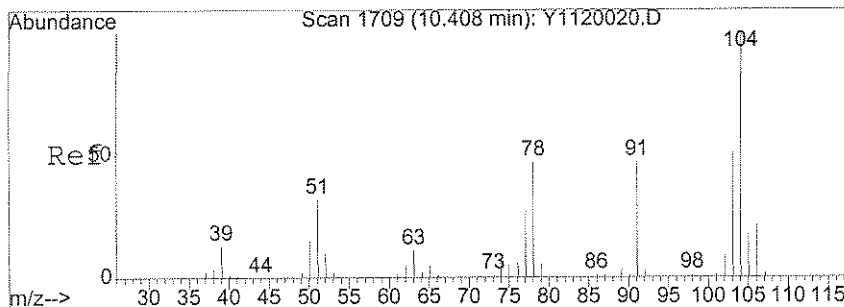
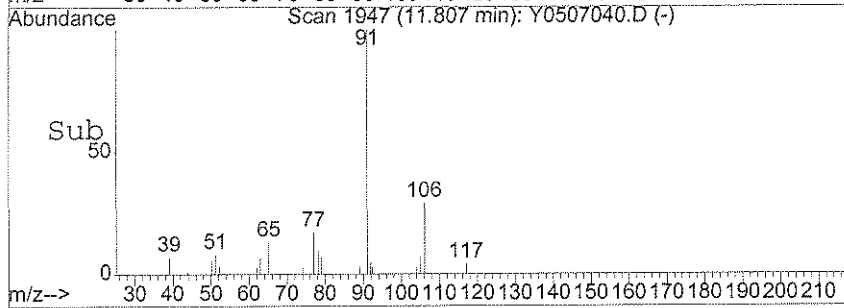
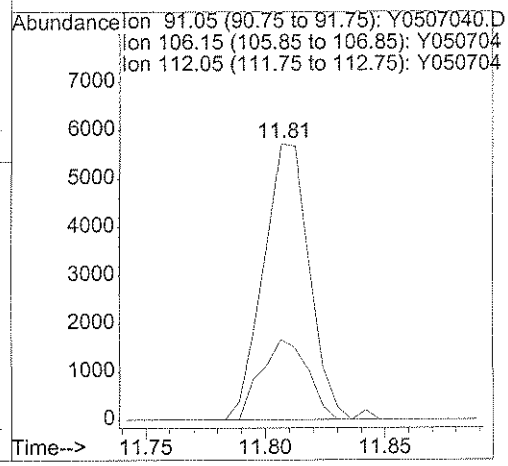
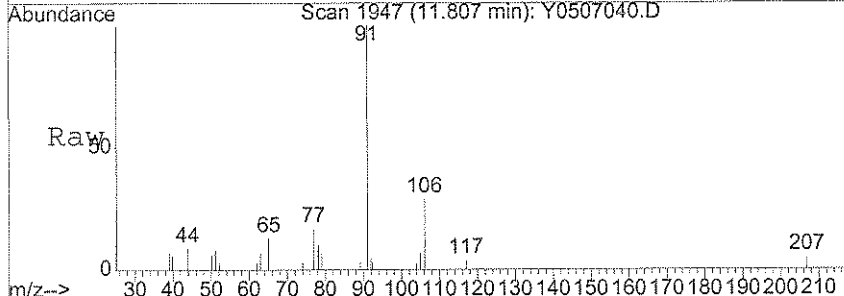
Tgt Ion: 43 Resp: 1570
 Ion Ratio Lower Upper
 43 100
 58 24.5 21.3 31.9





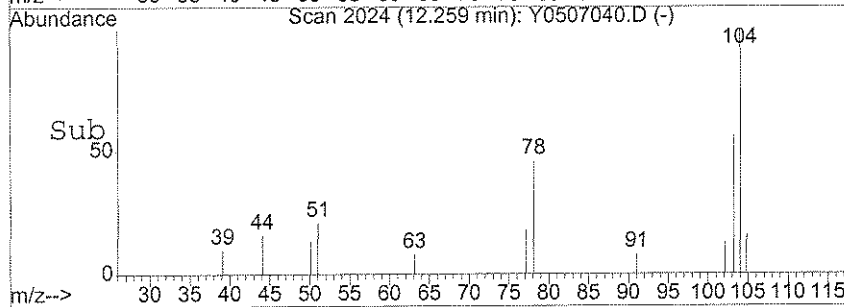
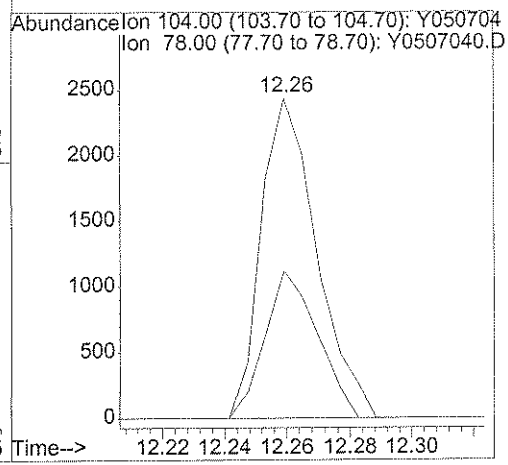
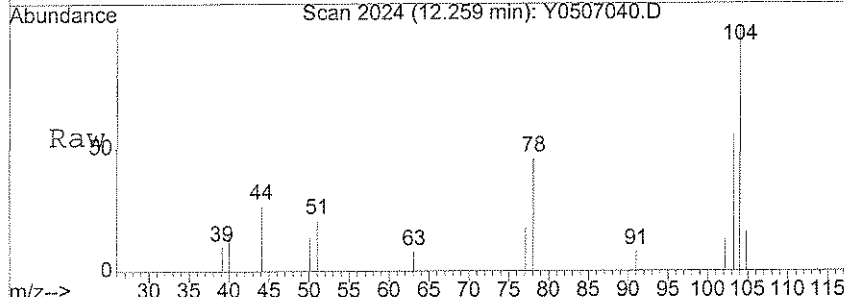
#68
 Ethylbenzene
 Concen: 0.56 ug/l
 RT: 11.81 min Scan# 1947
 Delta R.T. -0.01 min
 Lab File: Y0507040.D
 Acq: 8 May 2008 00:34

Tgt Ion	Resp	Lower	Upper
91	7746		
106	29.2	26.1	39.1
112	0.0	0.0	0.0



#71
 Styrene
 Concen: 0.35 ug/l
 RT: 12.26 min Scan# 2024
 Delta R.T. 0.00 min
 Lab File: Y0507040.D
 Acq: 8 May 2008 00:34

Tgt Ion	Resp	Lower	Upper
104	2999		
78	43.3	19.7	59.7



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-3

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-003
 Lab File ID: Y0507041.D
 Date Collected: 05/06/2008
 Date/Time Analyzed: 05/08/2008 00:59
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-3

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-003
 Lab File ID: Y0507041.D
 Date Collected: 05/06/2008
 Date/Time Analyzed: 05/08/2008 00:59
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-3

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-003
 Lab File ID: Y0507041.D
 Date Collected: 05/06/2008
 Date/Time Analyzed: 05/08/2008 00:59
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

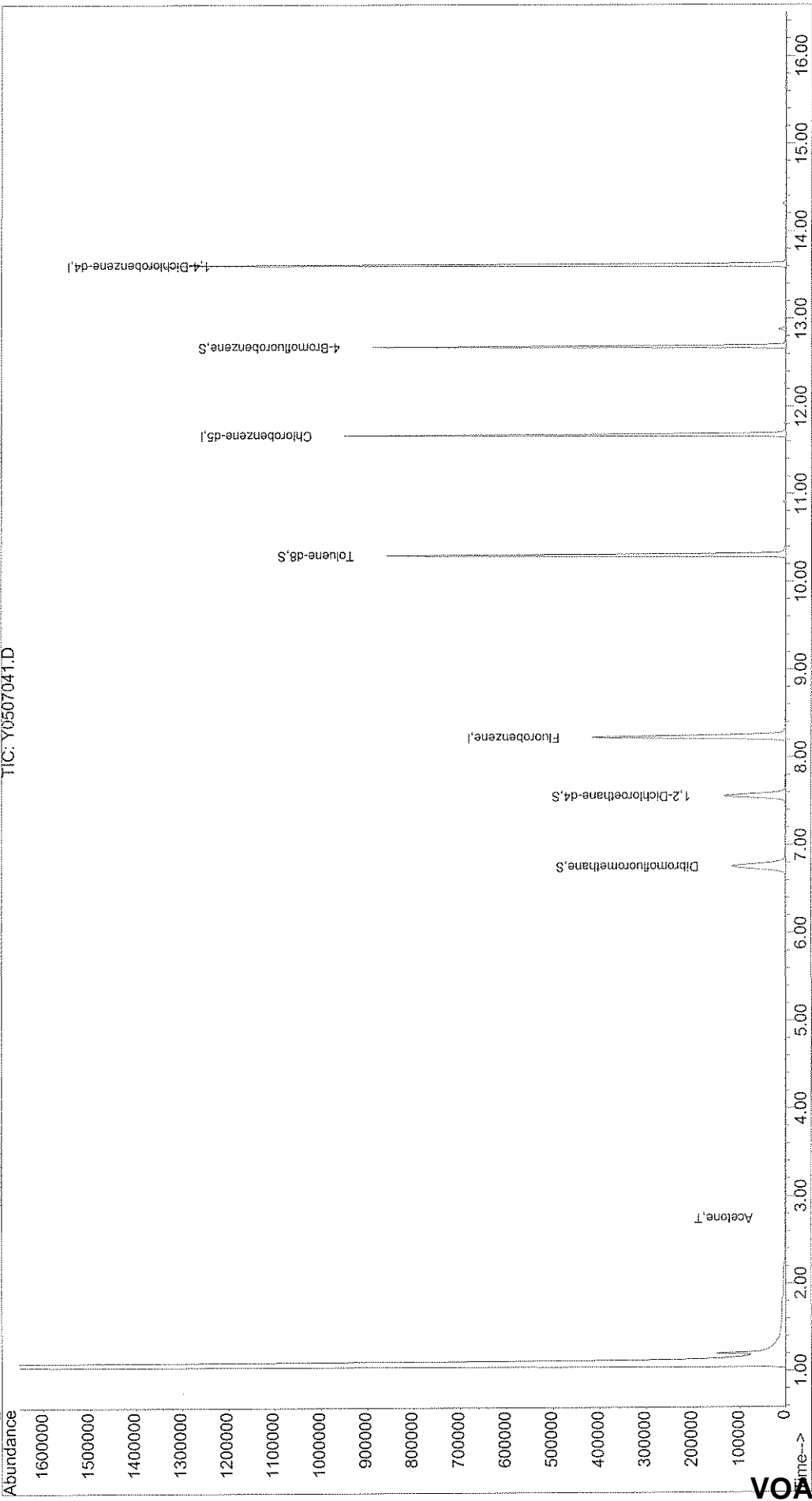
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507041.D Vial: 24
Acq On : 8 May 2008 00:59 Operator: DGA
Sample : JPL106-003 Inst : Yoda
Misc : #2 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 9 12:07 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507041.D
 Acq On : 8 May 2008 00:59
 Sample : JPL106-003
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:07 2008

Vial: 24
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

IS QA File : X:\MSVOA\YODA\050608\Y0506014.D (6 May 2008 12:59)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
						Rcv (Ar)
1) Fluorobenzene	8.23	96	477806	50.00	ug/l	0.00 93.57%
54) Chlorobenzene-d5	11.68	82	235453	50.00	ug/l	0.00 96.26%
74) 1,4-Dichlorobenzene-d4	13.61	152	290666	50.00	ug/l	0.00 82.94%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	152388	48.76	ug/l	0.00
Spiked Amount	50.000	Range	85 - 115	Recovery	=	97.52%
40) 1,2-Dichloroethane-d4	7.56	65	158052	52.94	ug/l	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.88%
55) Toluene-d8	10.30	98	507422	49.77	ug/l	0.00
Spiked Amount	50.000	Range	85 - 120	Recovery	=	99.54%
76) 4-Bromofluorobenzene	12.68	95	211383	55.94	ug/l	0.00
Spiked Amount	50.000	Range	75 - 120	Recovery	=	111.88%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	510	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.75	43	1119	0.98 ug/l	#	82
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.89	76	662	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	3.13	43	68	N.D.		
18) Methylene Chloride	3.26	84	58	Below Cal	#	61
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	3.62	53	68	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.	d	
22) Methyl tert-butyl ether	3.72	73	61	N.D.		

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

Y0507041.D Y8260W.M Fri May 09 12:07:47 2008

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507041.D
 Acq On : 8 May 2008 00:59
 Sample : JPL106-003
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:07 2008

Vial: 24
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	0.00	43	0		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.32	83	90		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.64	78	333		N.D.	
42) 1,2-Dichloroethane	7.61	62	53		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	0.00	83	0		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	9.74	63	59		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.36	92	325		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,1-Trichloroethane	10.90	97	60		N.D.	
60) Tetrachloroethene	0.00	166	0		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.15	43	55		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	56		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0507041.D Y8260W.M Fri May 09 12:07:47 2008

[Handwritten Signature]
 Page 2
VOA - 38

Quantitation Report

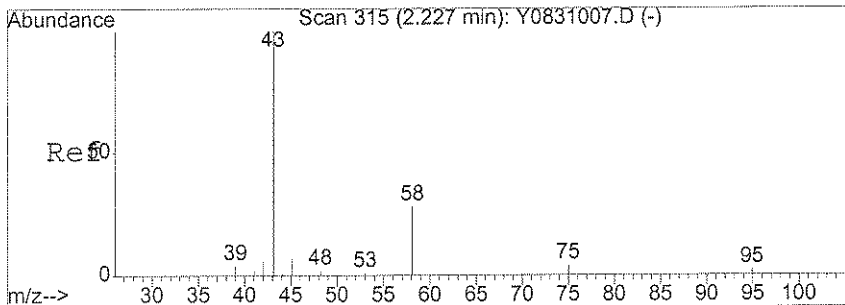
Data File : X:\MSVOA\YODA\050708\Y0507041.D
 Acq On : 8 May 2008 00:59
 Sample : JPL106-003
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:07 2008

Vial: 24
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

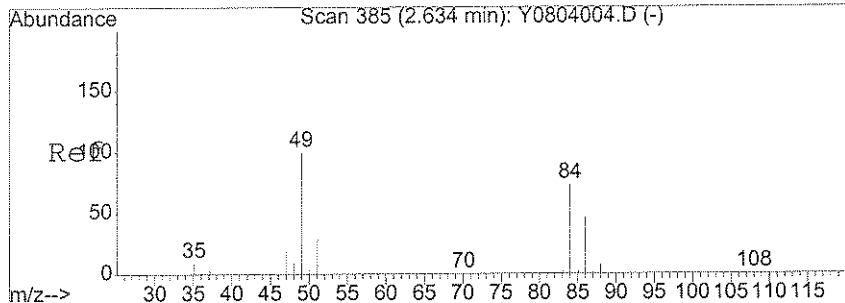
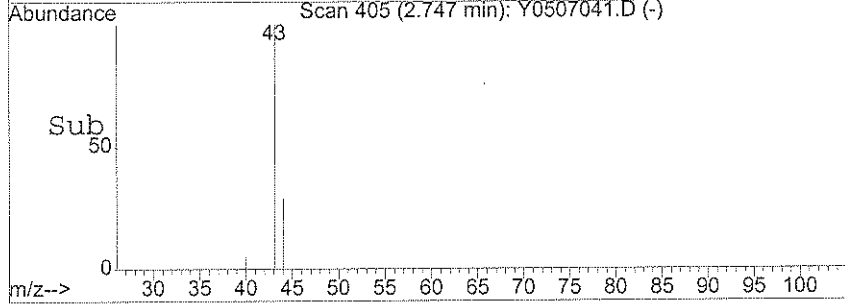
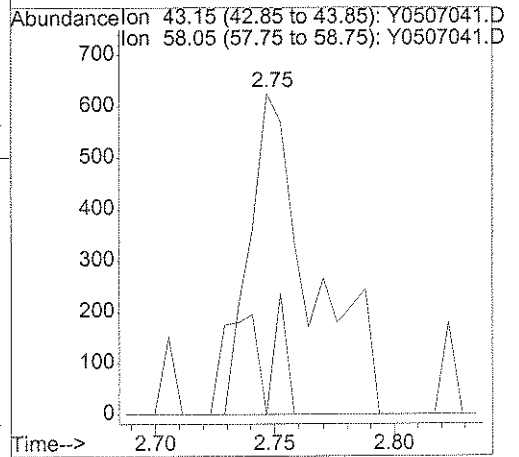
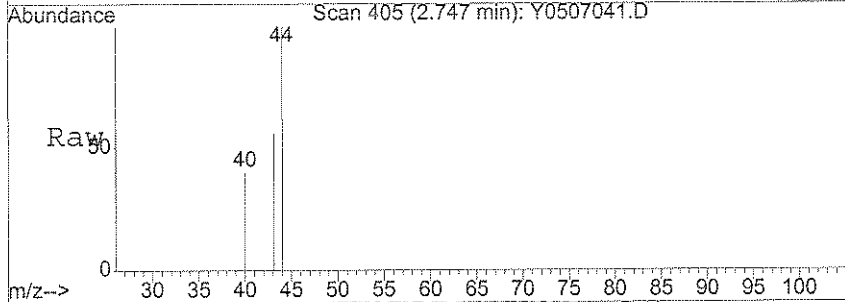
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	1774		N.D.	
69) m,p-Xylene	11.81	106	518		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	12.26	104	1046		N.D.	
72) Bromoform	12.67	173	151		N.D.	
73) Isopropylbenzene	12.68	105	253		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	54		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.69	83	54		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	13.03	120	57		N.D.	
81) 2-Chlorotoluene	13.05	91	140		N.D.	
82) 4-Chlorotoluene	13.05	91	140		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	214		N.D.	
88) 4-Isopropyltoluene	13.59	119	455		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	96		N.D.	
90) 1,2-Dichlorobenzene	13.63	146	96		N.D.	
91) n-Butylbenzene	13.90	91	410		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	d
93) 1,2,4-Trichlorobenzene	15.17	180	196		N.D.	
94) Hexachlorobutadiene	15.31	225	68		N.D.	
95) Naphthalene	15.35	128	445		N.D.	
96) 1,2,3-Trichlorobenzene	15.57	180	399		N.D.	



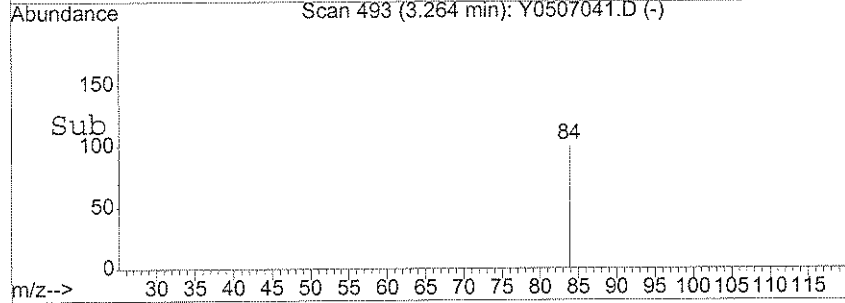
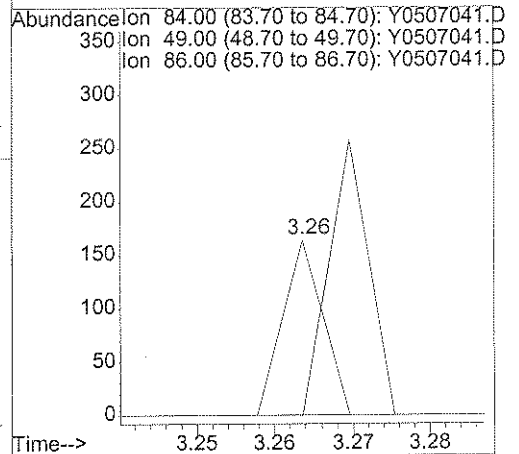
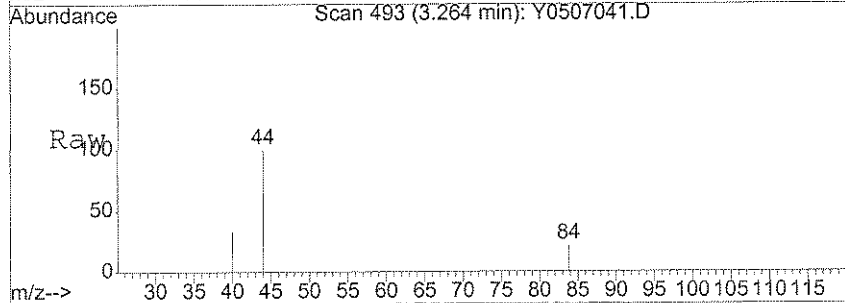
#11
 Acetone
 Concen: 0.98 ug/l
 RT: 2.75 min Scan# 405
 Delta R.T. 0.01 min
 Lab File: Y0507041.D
 Acq: 8 May 2008 00:59

Tgt Ion: 43 Resp: 1119
 Ion Ratio Lower Upper
 43 100
 58 17.2 21.3 31.9#



#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.26 min Scan# 493
 Delta R.T. -0.01 min
 Lab File: Y0507041.D
 Acq: 8 May 2008 00:59

Tgt Ion: 84 Resp: 58
 Ion Ratio Lower Upper
 84 100
 49 156.9 112.5 152.5#
 86 0.0 39.5 79.5#



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-2

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-004
 Lab File ID: Y0507042.D
 Date Collected: 05/06/2008
 Date/Time Analyzed: 05/08/2008 01:24
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.63	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.76	
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.73	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-2

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-004
 Lab File ID: Y0507042.D
 Date Collected: 05/06/2008
 Date/Time Analyzed: 05/08/2008 01:24
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-2

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-004
 Lab File ID: Y0507042.D
 Date Collected: 05/06/2008
 Date/Time Analyzed: 05/08/2008 01:24
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

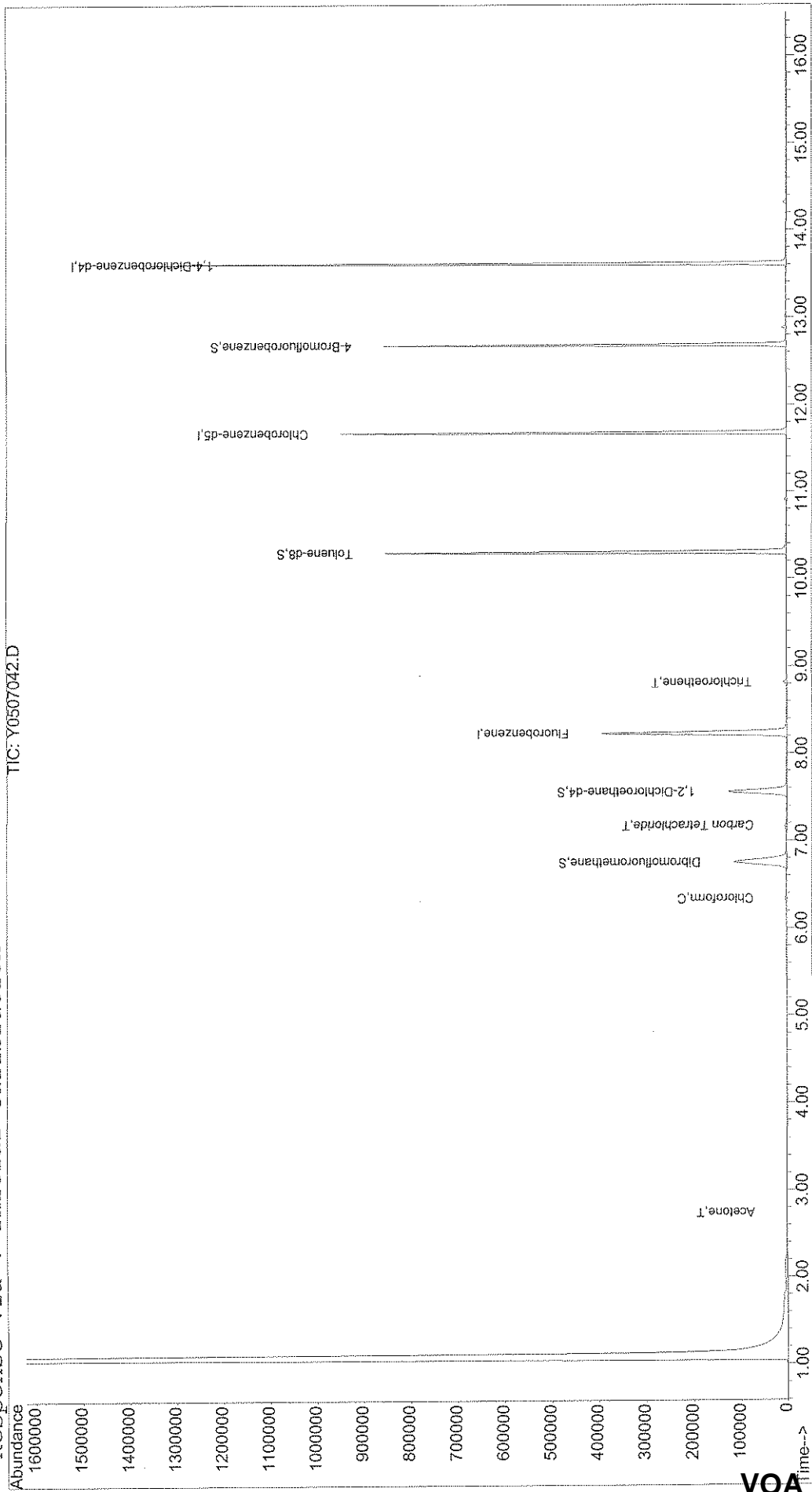
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507042.D Vial: 25
Acq On : 8 May 2008 1:24 Operator: DGA
Sample : JPL106-004 Inst : yoda
Misc : #2 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 9 12:08 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260 - 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507042.D
 Acq On : 8 May 2008 1:24
 Sample : JPL106-004
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:08 2008

Vial: 25
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\050608\Y0506014.D (6 May 2008 12:59)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	465848	50.00	ug/l	0.00 91.23%
54) Chlorobenzene-d5	11.68	82	229333	50.00	ug/l	0.00 93.76%
74) 1,4-Dichlorobenzene-d4	13.61	152	292150	50.00	ug/l	0.00 83.36%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	148638	48.78	ug/l	0.00
Spiked Amount	50.000	Range	85 - 115	Recovery	=	97.56%
40) 1,2-Dichloroethane-d4	7.56	65	150831	51.82	ug/l	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.64%
55) Toluene-d8	10.30	98	493335	49.68	ug/l	0.00
Spiked Amount	50.000	Range	85 - 120	Recovery	=	99.36%
76) 4-Bromofluorobenzene	12.68	95	210661	55.47	ug/l	0.00
Spiked Amount	50.000	Range	75 - 120	Recovery	=	110.94%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	818	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.75	43	1520	1.37	ug/l #	55
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.90	76	469	N.D.		
15) Allyl chloride	0.00	76	0	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	0.00	84	0	N.D.		
19) trans-1,2-Dichloroethene	0.00	96	0	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.		
22) Methyl tert-butyl ether	3.69	73	68	N.D.		

(#) = qualifier out of range (m) = manual integration
 Y0507042.D Y8260W.M Fri May 09 12:09:09 2008

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507042.D
 Acq On : 8 May 2008 1:24
 Sample : JPL106-004
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:08 2008

Vial: 25
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0	N.D.	
24) Vinyl acetate	0.00	43	0	N.D.	
25) Chloroprene	0.00	53	0	N.D.	
26) Isopropyl ether	0.00	45	0	N.D.	
27) Ethyl-t-butyl ether	0.00	59	0	N.D.	
28) 2,2-Dichloropropane	0.00	77	0	N.D.	
29) cis-1,2-Dichloroethene	5.48	96	61	N.D.	
30) 2-Butanone	5.68	43	61	N.D.	
31) Propionitrile	0.00	54	0	N.D.	
32) Bromochloromethane	0.00	128	0	N.D.	
33) Methacrylonitrile	0.00	41	0	N.D.	
34) Chloroform	6.34	83	4442m	0.63 ug/l	15
35) 1,1,1-Trichloroethane	0.00	97	0	N.D.	
37) Cyclohexane	0.00	56	0	N.D.	
38) Carbon Tetrachloride	7.17	117	3774	0.76 ug/l #	68
39) 1,1-Dichloropropene	0.00	75	0	N.D.	
41) Benzene	7.63	78	351	N.D.	
42) 1,2-Dichloroethane	0.00	62	0	N.D.	
43) Isobutanol	0.00	43	0	N.D. d	
44) t-amyl methyl ether	0.00	73	0	N.D.	
45) Trichloroethene	8.82	130	2718	0.73 ug/l	95
46) Methylcyclohexane	0.00	83	0	N.D.	
47) 1,2-Dichloropropane	0.00	63	0	N.D.	
48) Dibromomethane	0.00	93	0	N.D.	
49) Methyl methacrylate	0.00	41	0	N.D.	
50) Bromodichloromethane	9.50	83	59	N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0	N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	
53) 4-Methyl-2-pentanone	10.23	43	220	N.D.	
56) Toluene	10.36	92	201	N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0	N.D.	
58) Ethyl methacrylate	0.00	69	0	N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0	N.D.	
60) Tetrachloroethene	10.91	166	59	N.D.	
61) 1,3-Dichloropropane	10.77	76	63	N.D.	
62) 2-Hexanone	11.07	43	92	N.D.	
63) Dibromochloromethane	10.91	129	125	N.D.	
64) 1,2-Dibromoethane	0.00	107	0	N.D.	
65) Chlorobenzene	0.00	112	0	N.D.	
66) 1-Chlorohexane	0.00	91	0	N.D. d	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.	

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

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507042.D
 Acq On : 8 May 2008 1:24
 Sample : JPL106-004
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:08 2008

Vial: 25
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	246		N.D.	
69) m,p-Xylene	0.00	106	0		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	12.25	104	53		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.56	105	66		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	80		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.68	83	56		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	13.13	120	60		N.D.	
81) 2-Chlorotoluene	12.96	91	55		N.D.	
82) 4-Chlorotoluene	13.05	91	55		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	174		N.D.	
88) 4-Isopropyltoluene	13.59	119	262		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	77		N.D.	
90) 1,2-Dichlorobenzene	13.63	146	77		N.D.	
91) n-Butylbenzene	13.91	91	451		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	356		N.D.	
94) Hexachlorobutadiene	0.00	225	0		N.D.	
95) Naphthalene	15.36	128	243		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	133		N.D.	

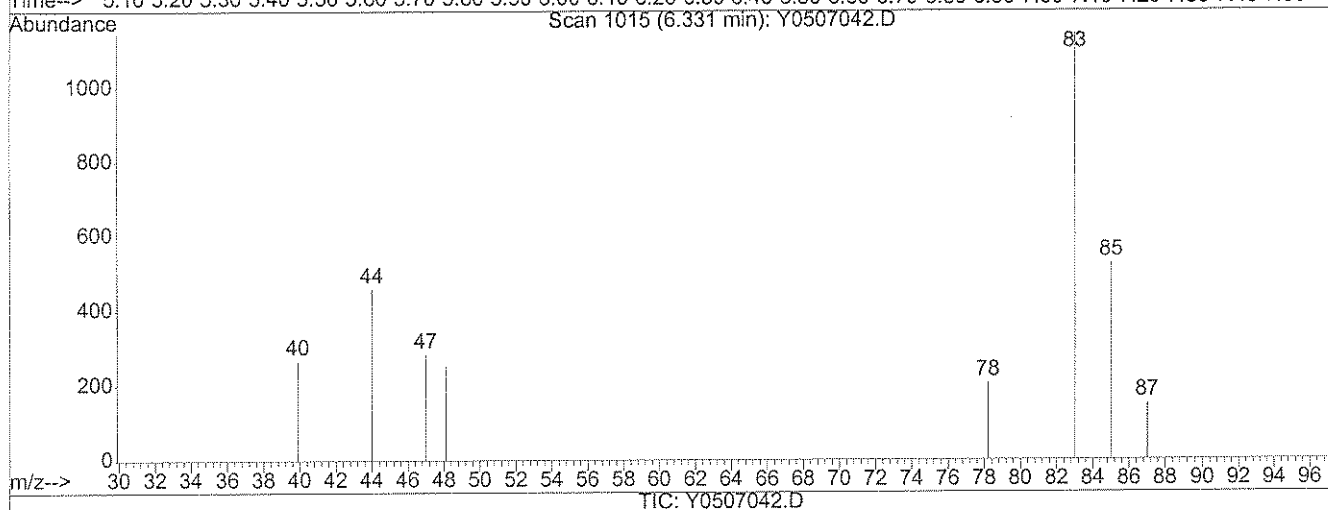
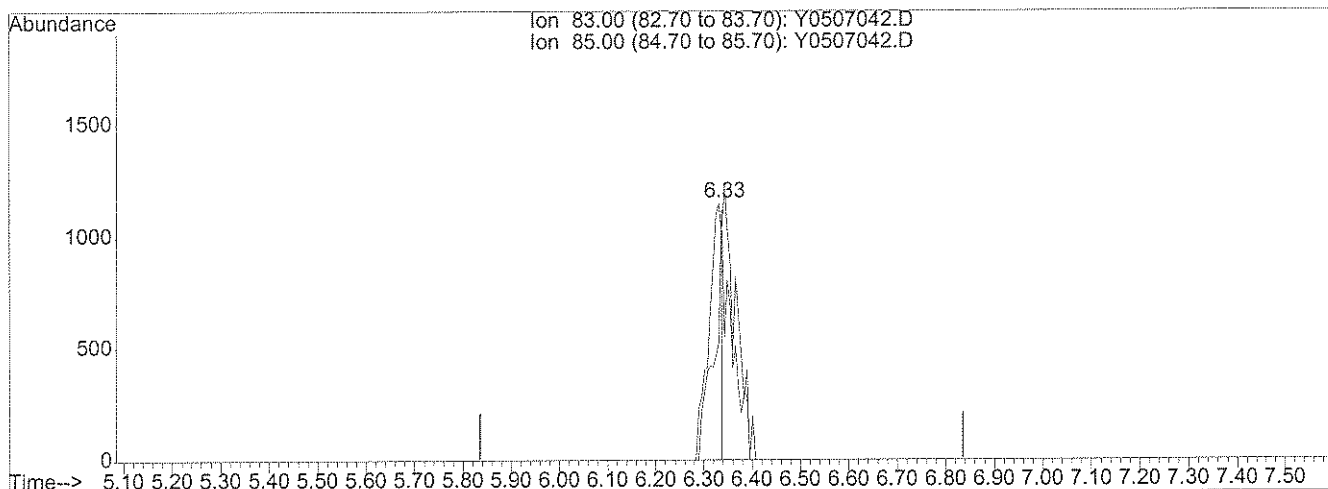
Quantitation Report (Qedit)

Data File : X:\MSVOA\YODA\050708\Y0507042.D
 Acq On : 8 May 2008 1:24
 Sample : JPL106-004
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:08 2008

Vial: 25
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: temp.res

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Multiple Level Calibration



(34) Chloroform (C)

6.33min 0.31ug/l

response 2165

Ion	Exp%	Act%
83.00	100	100
85.00	63.30	129.28#
0.00	0.00	0.00
0.00	0.00	0.00

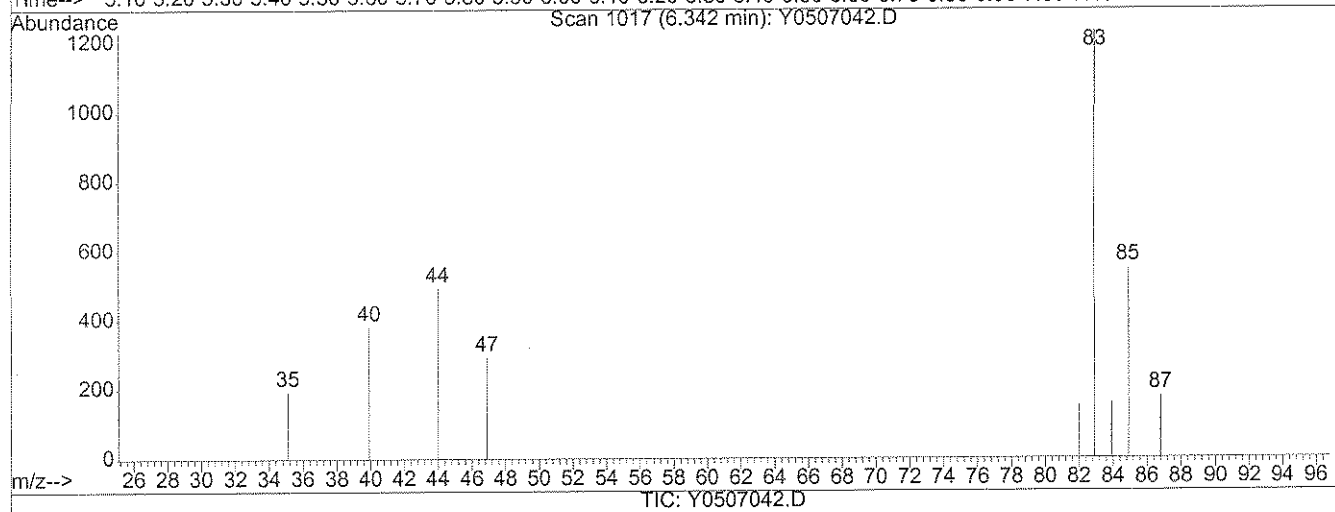
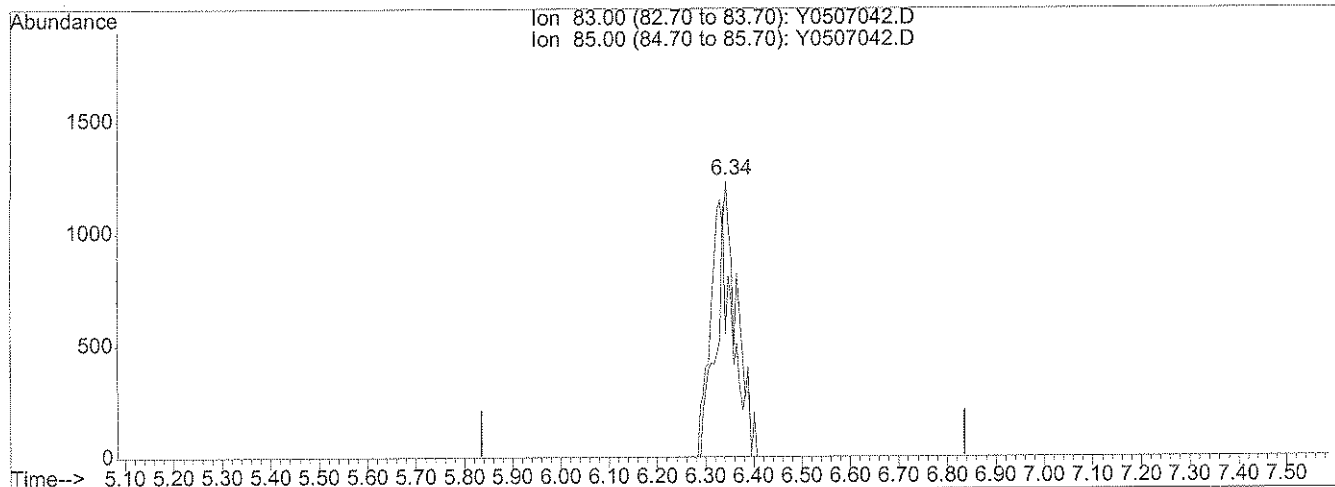
Quantitation Report (Qedit)

Data File : X:\MSVOA\YODA\050708\Y0507042.D
 Acq On : 8 May 2008 1:24
 Sample : JPL106-004
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:08 2008

Vial: 25
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: temp.res

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Multiple Level Calibration

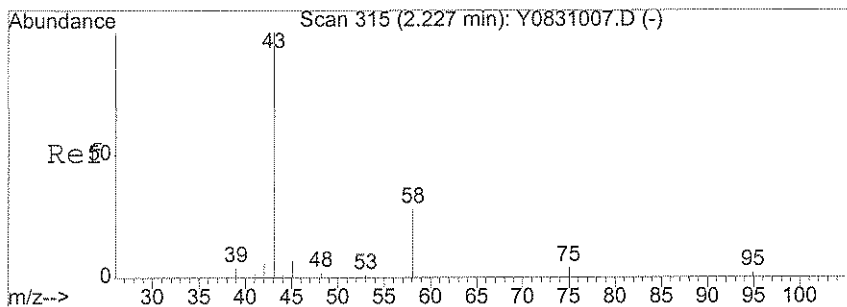


(34) Chloroform (C)

6.34min 0.63ug/l m

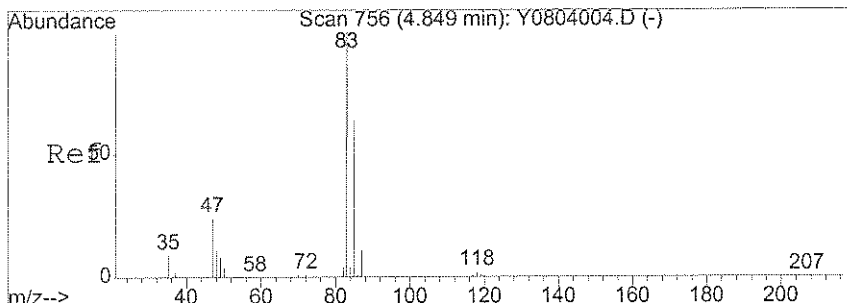
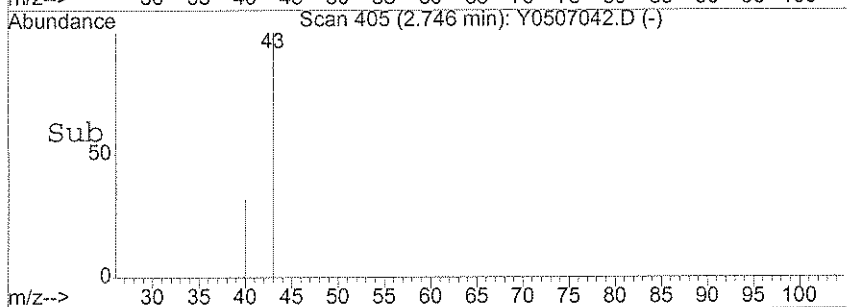
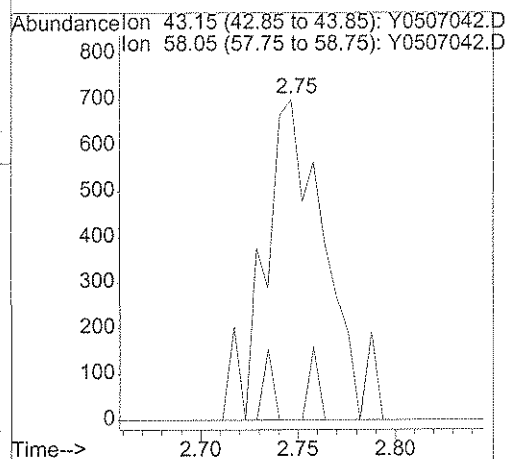
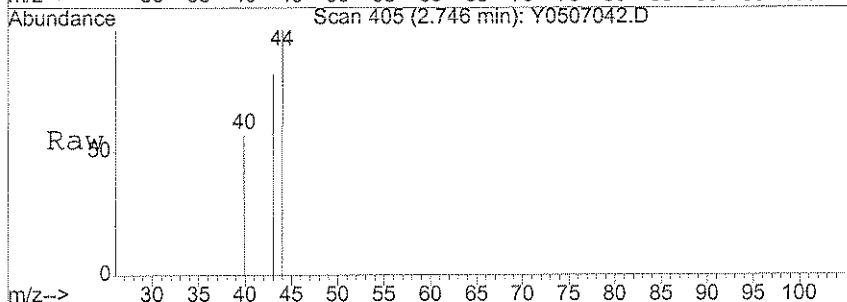
response 4442

Ion	Exp%	Act%
83.00	100	100
85.00	63.30	63.01
0.00	0.00	0.00
0.00	0.00	0.00



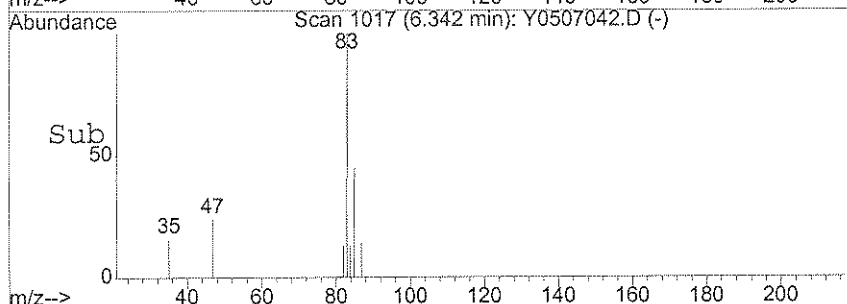
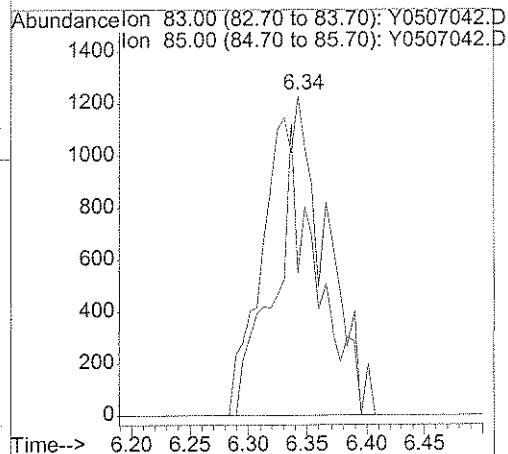
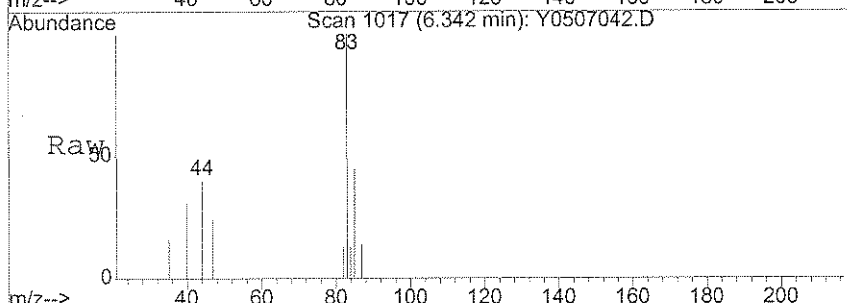
#11
 Acetone
 Concen: 1.37 ug/l
 RT: 2.75 min Scan# 405
 Delta R.T. 0.01 min
 Lab File: Y0507042.D
 Acq: 8 May 2008 1:24

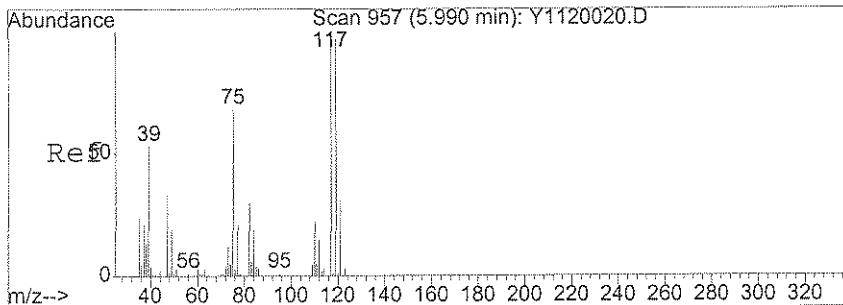
Tgt Ion: 43 Resp: 1520
 Ion Ratio Lower Upper
 43 100
 58 3.7 21.3 31.9#



#34
 Chloroform
 Concen: 0.63 ug/l m
 RT: 6.34 min Scan# 1017
 Delta R.T. 0.01 min
 Lab File: Y0507042.D
 Acq: 8 May 2008 1:24

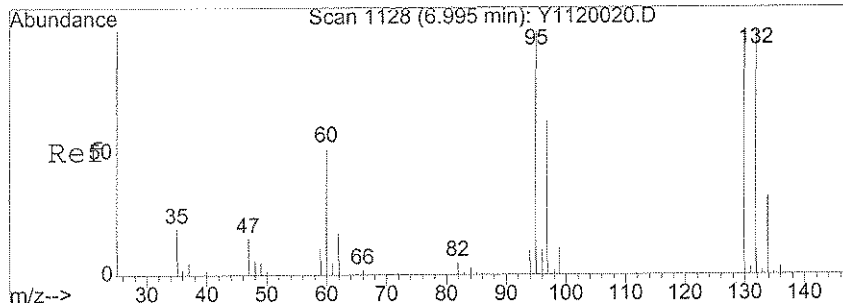
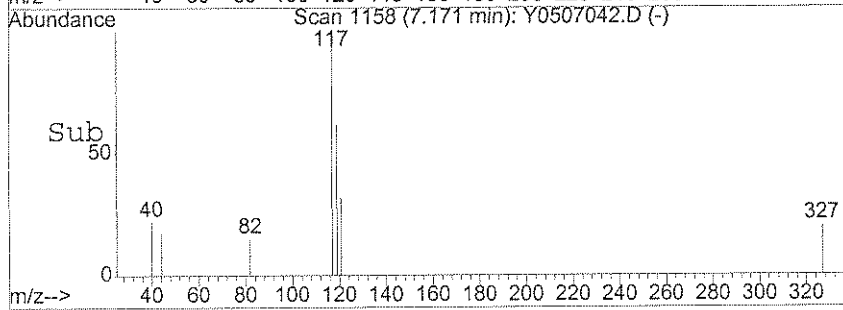
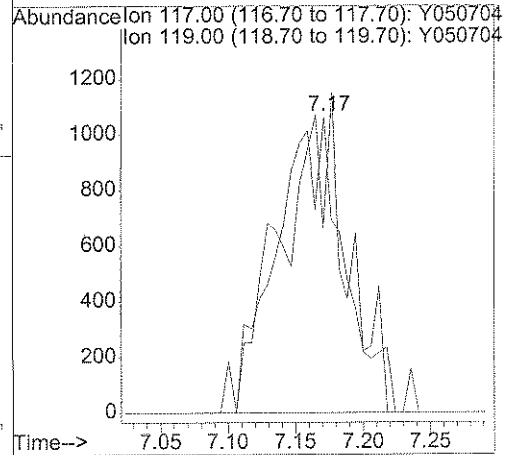
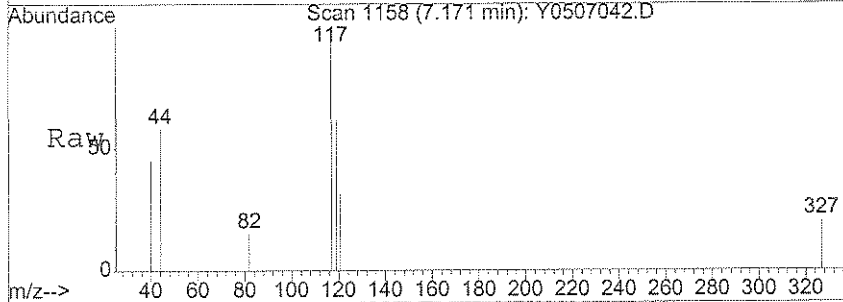
Tgt Ion: 83 Resp: 4442
 Ion Ratio Lower Upper
 83 100
 85 63.0 43.3 83.3





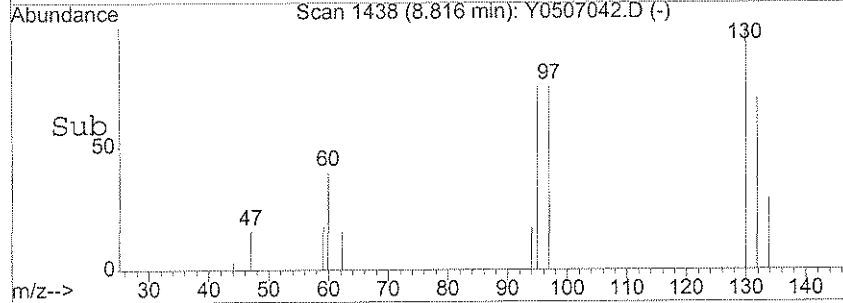
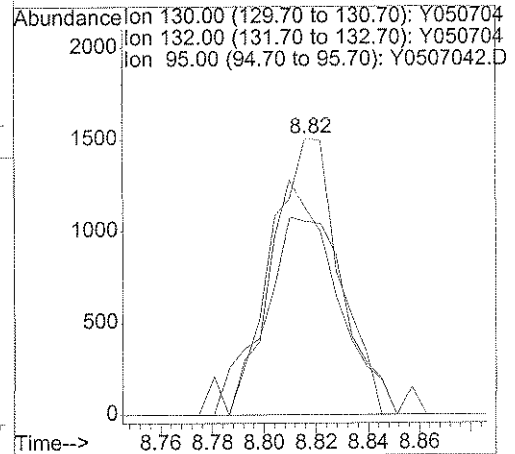
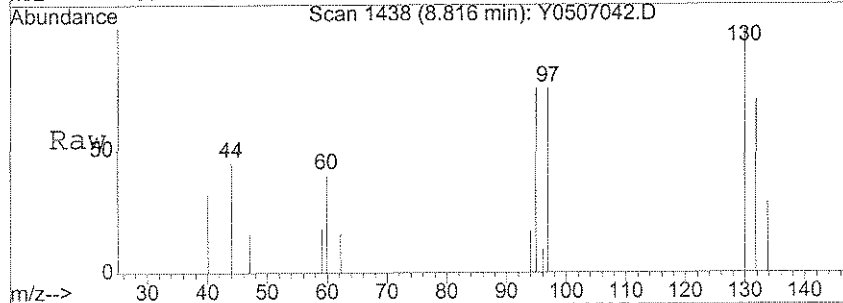
#38
 Carbon Tetrachloride
 Concen: 0.76 ug/l
 RT: 7.17 min Scan# 1158
 Delta R.T. 0.01 min
 Lab File: Y0507042.D
 Acq: 8 May 2008 1:24

Tgt Ion: 117 Resp: 3774
 Ion Ratio Lower Upper
 117 100
 119 66.3 78.2 118.2#



#45
 Trichloroethene
 Concen: 0.73 ug/l
 RT: 8.82 min Scan# 1438
 Delta R.T. 0.00 min
 Lab File: Y0507042.D
 Acq: 8 May 2008 1:24

Tgt Ion: 130 Resp: 2718
 Ion Ratio Lower Upper
 130 100
 132 86.6 75.0 115.0
 95 90.1 69.4 109.4



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-1

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-005
 Lab File ID: Y0507043.D
 Date Collected: 05/06/2008
 Date/Time Analyzed: 05/08/2008 01:48
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-1

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-005
 Lab File ID: Y0507043.D
 Date Collected: 05/06/2008
 Date/Time Analyzed: 05/08/2008 01:48
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-1

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-005
 Lab File ID: Y0507043.D
 Date Collected: 05/06/2008
 Date/Time Analyzed: 05/08/2008 01:48
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

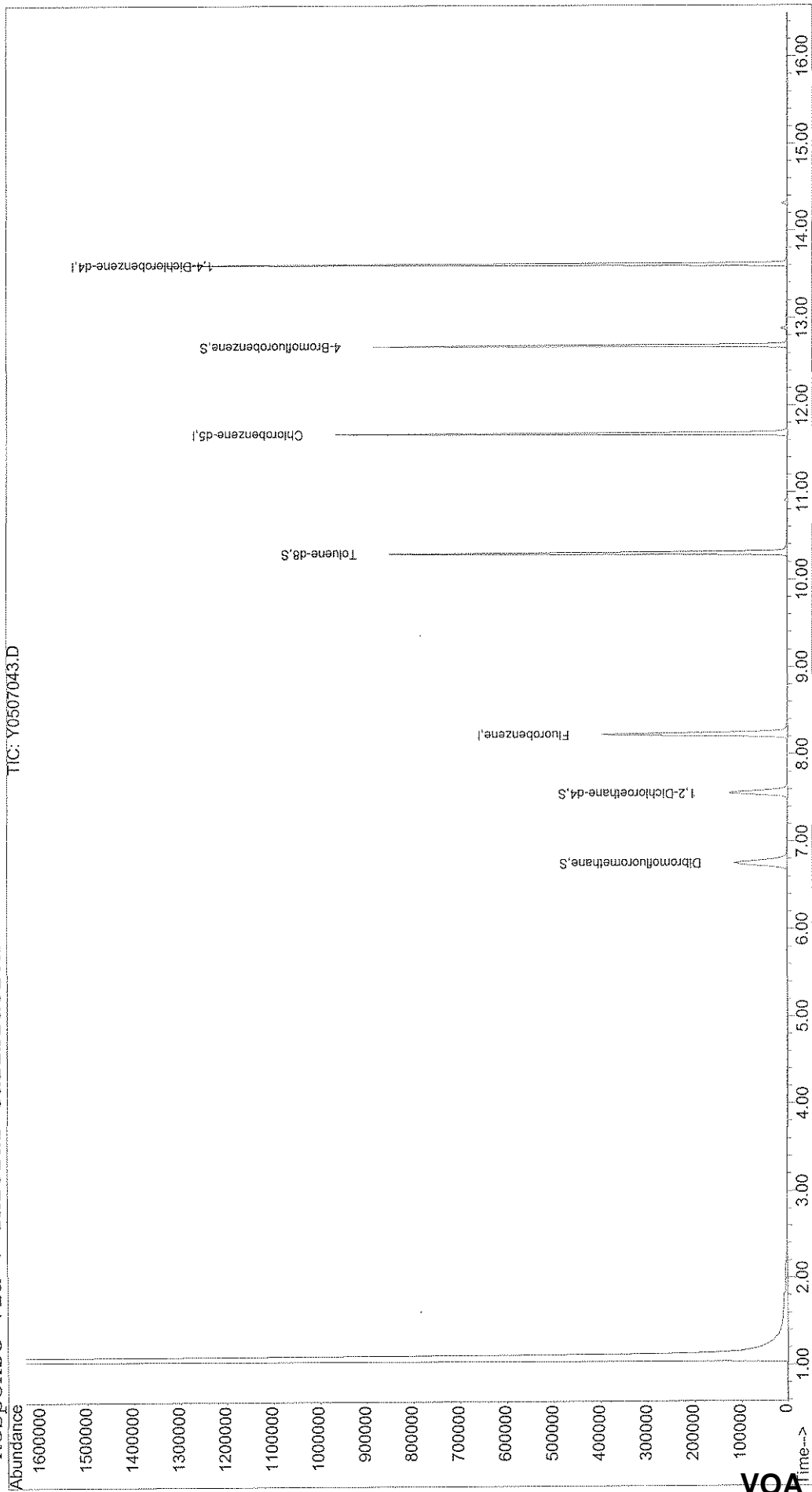
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507043.D Vial: 26
Acq On : 8 May 2008 1:48 Operator: DGA
Sample : JPL106-005 Inst : yoda
Misc : #8 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 9 12:10 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260 - 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507043.D
 Acq On : 8 May 2008 1:48
 Sample : JPL106-005
 Misc : #8 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:10 2008

Vial: 26
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

IS QA File : X:\MSVOA\YODA\050608\Y0506014.D (6 May 2008 12:59)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	456586	50.00	ug/l	0.00 89.42%
54) Chlorobenzene-d5	11.68	82	235481	50.00	ug/l	0.00 96.27%
74) 1,4-Dichlorobenzene-d4	13.61	152	289058	50.00	ug/l	0.00 82.48%

System Monitoring Compounds

36) Dibromofluoromethane	6.75	111	148180	49.61	ug/l	0.00
Spiked Amount	50.000	Range 85 - 115	Recovery =	99.22%		
40) 1,2-Dichloroethane-d4	7.55	65	154220	54.06	ug/l	0.00
Spiked Amount	50.000	Range 70 - 120	Recovery =	108.12%		
55) Toluene-d8	10.30	98	500828	49.12	ug/l	0.00
Spiked Amount	50.000	Range 85 - 120	Recovery =	98.24%		
76) 4-Bromofluorobenzene	12.68	95	211890	56.39	ug/l	0.00
Spiked Amount	50.000	Range 75 - 120	Recovery =	112.78%		

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0		N.D.	
3) Chloromethane	1.36	50	385		N.D.	
4) Vinyl Chloride	0.00	62	0		N.D.	
5) Bromomethane	0.00	96	0		N.D.	
6) Chloroethane	0.00	64	0		N.D.	
7) Trichlorofluoromethane	0.00	101	0		N.D.	
8) Acrolein	0.00	56	0		N.D.	
9) 1,1-Dichloroethene	0.00	96	0		N.D.	
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0		N.D.	
11) Acetone	0.00	43	0		N.D. d	
12) Iodomethane	0.00	142	0		N.D.	
13) Bromoethane	0.00	108	0		N.D.	
14) Carbon Disulfide	2.89	76	206		N.D.	
15) Allyl chloride	0.00	76	0		N.D.	
16) Acetonitrile	0.00	40	0		N.D. d	
17) Methyl Acetate	0.00	43	0		N.D.	
18) Methylene Chloride	3.27	84	62		Below Cal #	1
19) trans-1,2-Dichloroethene	0.00	96	0		N.D.	
20) Acrylonitrile	0.00	53	0		N.D.	
21) t-butyl alcohol	0.00	59	0		N.D.	
22) Methyl tert-butyl ether	0.00	73	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0507043.D Y8260W.M Fri May 09 12:10:16 2008

J. S. [Signature]
 Page 1
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Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507043.D
 Acq On : 8 May 2008 1:48
 Sample : JPL106-005
 Misc : #8 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:10 2008

Vial: 26
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	0.00	43	0		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	0.00	41	0		N.D.	
34) Chloroform	6.33	83	67		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	0.00	56	0		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	7.18	75	56		N.D.	
41) Benzene	7.64	78	172		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	9.07	83	59		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	9.26	41	55		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.31	92	53		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.91	97	137		N.D.	
60) Tetrachloroethene	10.92	166	59		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	0.00	43	0		N.D.	d
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.71	112	57		N.D.	
66) 1-Chlorohexane	11.71	91	54		N.D.	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0507043.D Y8260W.M Fri May 09 12:10:16 2008

J. Stals
 Page 2
VOA - 57

Quantitation Report

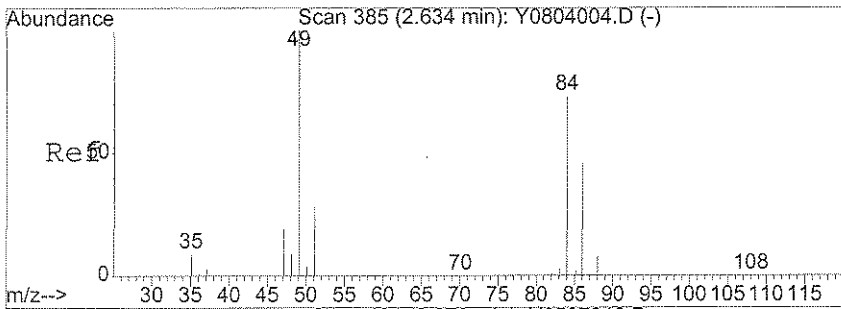
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 Acq On : 8 May 2008 1:48
 Sample : JPL106-005
 Misc : #8 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:10 2008

Vial: 26
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

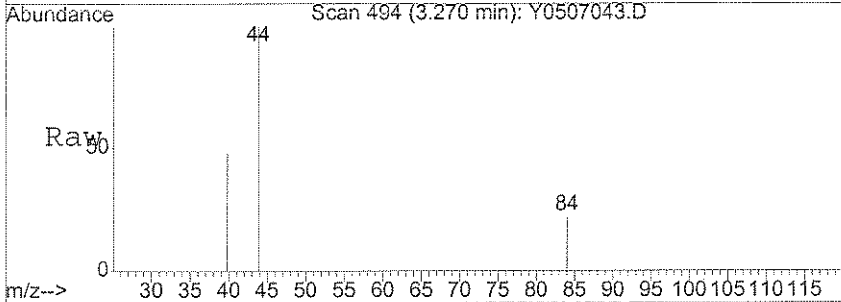
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.82	91	59		N.D.	
69) m,p-Xylene	11.91	106	92		N.D.	
70) o-xylene	0.00	106	0		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.56	105	88		N.D.	
75) trans-1,4-Dichloro-2-buten	12.68	53	59		N.D.	
77) Bromobenzene	12.68	156	88		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.69	83	57		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	12.91	120	62		N.D.	
81) 2-Chlorotoluene	12.68	91	178		N.D.	
82) 4-Chlorotoluene	13.05	91	57		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.64	146	55		N.D.	
88) 4-Isopropyltoluene	13.59	119	205		N.D.	
89) 1,4-Dichlorobenzene	13.64	146	55		N.D.	
90) 1,2-Dichlorobenzene	0.00	146	0		N.D.	
91) n-Butylbenzene	13.92	91	324		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	d
93) 1,2,4-Trichlorobenzene	0.00	180	0		N.D.	
94) Hexachlorobutadiene	15.30	225	274		N.D.	
95) Naphthalene	15.37	128	57		N.D.	
96) 1,2,3-Trichlorobenzene	15.56	180	166		N.D.	

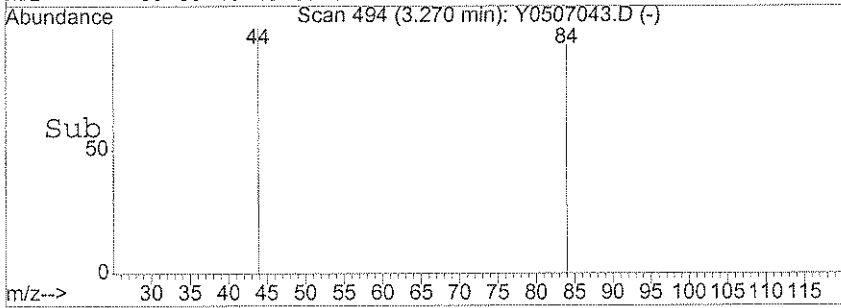
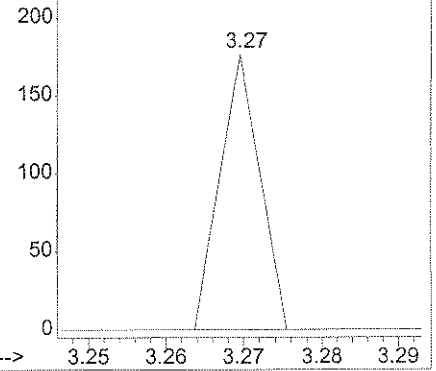


#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.27 min Scan# 494
 Delta R.T. 0.00 min
 Lab File: Y0507043.D
 Acq: 8 May 2008 1:48

Tgt Ion	Resp	Lower	Upper
84	100		
49	0.0	112.5	152.5#
86	0.0	39.5	79.5#



Abundance Ion 84.00 (83.70 to 84.70): Y0507043.D
 Ion 49.00 (48.70 to 49.70): Y0507043.D
 Ion 86.00 (85.70 to 86.70): Y0507043.D



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-09-05/06/08

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-006
 Lab File ID: Y0507044.D
 Date Collected: 05/06/2008
 Date/Time Analyzed: 05/08/2008 02:13
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-09-05/06/08

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-006
 Lab File ID: Y0507044.D
 Date Collected: 05/06/2008
 Date/Time Analyzed: 05/08/2008 02:13
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-09-05/06/08

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-006
 Lab File ID: Y0507044.D
 Date Collected: 05/06/2008
 Date/Time Analyzed: 05/08/2008 02:13
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

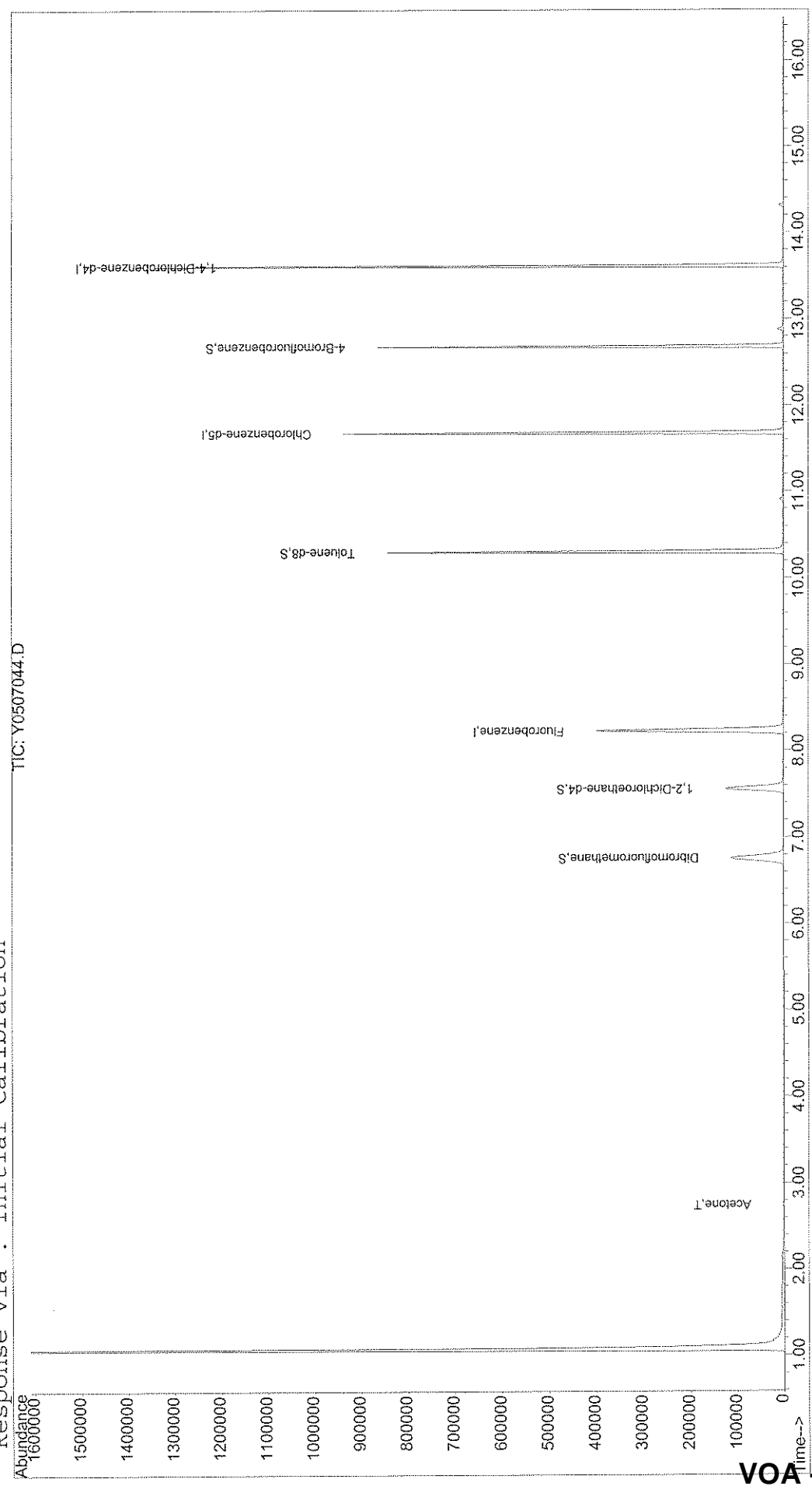
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507044.D Vial: 27
Acq On : 8 May 2008 2:13 Operator: DGA
Sample : JPL106-006 Inst : yoda
Misc : #2 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 9 12:11 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260 - 5ML Calibration 5973Y
Last Update : Thu Apr 17 07:07:54 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507044.D
 Acq On : 8 May 2008 2:13
 Sample : JPL106-006
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:11 2008

Vial: 27
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260
 IS QA File : X:\MSVOA\YODA\050608\Y0506014.D (6 May 2008 12:59)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	Rcv(Ar)
1) Fluorobenzene	8.23	96	464641	50.00	ug/l	0.00	90.99%
54) Chlorobenzene-d5	11.68	82	232391	50.00	ug/l	0.00	95.01%
74) 1,4-Dichlorobenzene-d4	13.61	152	286827	50.00	ug/l	0.00	81.84%

System Monitoring Compounds

36) Dibromofluoromethane	6.76	111	149263	49.11	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 115	Recovery	=	98.22%	
40) 1,2-Dichloroethane-d4	7.56	65	150825	51.95	ug/l	0.00	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.90%	
55) Toluene-d8	10.30	98	489909	48.69	ug/l	0.00	
Spiked Amount	50.000	Range	85 - 120	Recovery	=	97.38%	
76) 4-Bromofluorobenzene	12.68	95	205262	55.05	ug/l	0.00	
Spiked Amount	50.000	Range	75 - 120	Recovery	=	110.10%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0	N.D.		
3) Chloromethane	1.36	50	655	N.D.		
4) Vinyl Chloride	0.00	62	0	N.D.		
5) Bromomethane	0.00	96	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Trichlorofluoromethane	0.00	101	0	N.D.		
8) Acrolein	0.00	56	0	N.D.		
9) 1,1-Dichloroethene	0.00	96	0	N.D.		
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0	N.D.		
11) Acetone	2.75	43	2905	2.63	ug/l #	81
12) Iodomethane	0.00	142	0	N.D.		
13) Bromoethane	0.00	108	0	N.D.		
14) Carbon Disulfide	2.90	76	341	N.D.		
15) Allyl chloride	3.12	76	67	N.D.		
16) Acetonitrile	0.00	40	0	N.D.	d	
17) Methyl Acetate	0.00	43	0	N.D.		
18) Methylene Chloride	3.28	84	162	Below Cal	#	56
19) trans-1,2-Dichloroethene	3.69	96	54	N.D.		
20) Acrylonitrile	0.00	53	0	N.D.		
21) t-butyl alcohol	0.00	59	0	N.D.	d	
22) Methyl tert-butyl ether	0.00	73	0	N.D.		

(#) = qualifier out of range (m) = manual integration
 Y0507044.D Y8260W.M Fri May 09 12:11:35 2008

J. Stahls

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507044.D
 Acq On : 8 May 2008 2:13
 Sample : JPL106-006
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:11 2008

Vial: 27
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	0.00	96	0		N.D.	
30) 2-Butanone	5.65	43	141		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	6.24	41	55		N.D.	
34) Chloroform	6.34	83	794		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	6.83	56	60		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.66	78	125		N.D.	
42) 1,2-Dichloroethane	0.00	62	0		N.D.	
43) Isobutanol	0.00	43	0		N.D.	d
44) t-amyl methyl ether	0.00	73	0		N.D.	d
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	9.05	83	56		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	9.56	41	65		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.36	92	57		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	0.00	97	0		N.D.	
60) Tetrachloroethene	10.93	166	59		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.20	43	117		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.70	112	66		N.D.	
66) 1-Chlorohexane	0.00	91	0		N.D.	d
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0507044.D Y8260W.M Fri May 09 12:11:35 2008

f sltk

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507044.D
 Acq On : 8 May 2008 2:13
 Sample : JPL106-006
 Misc : #2 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 12:11 2008

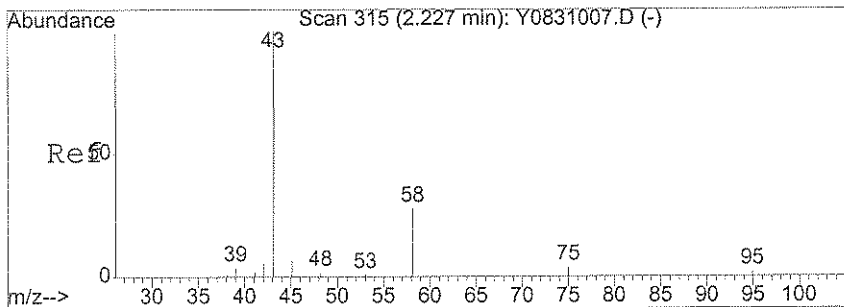
Vial: 27
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

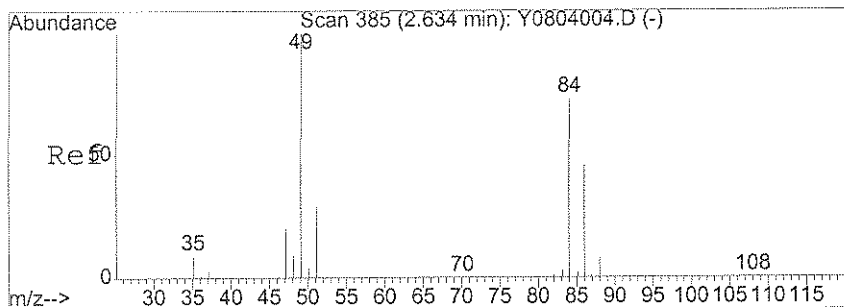
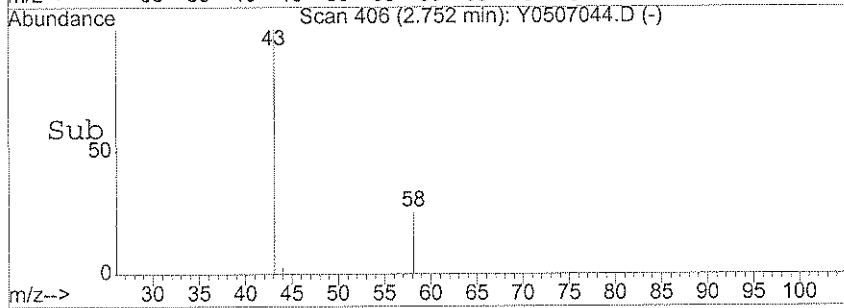
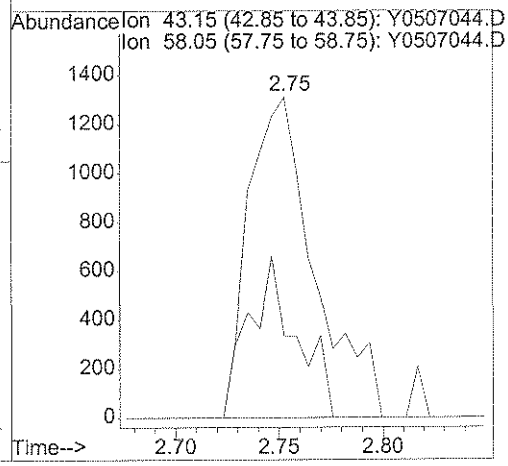
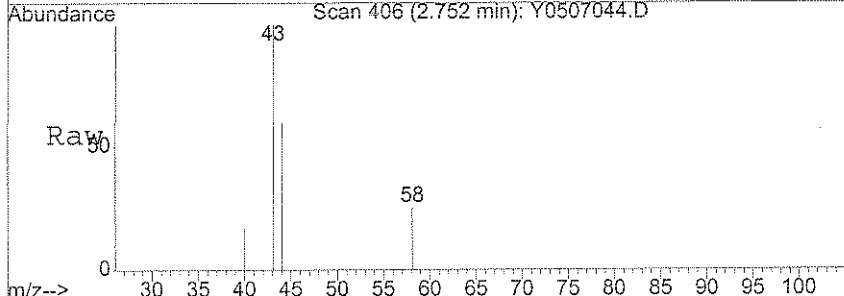
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	248		N.D.	
69) m,p-Xylene	11.90	106	355		N.D.	
70) o-xylene	12.25	106	74		N.D.	
71) Styrene	0.00	104	0		N.D.	
72) Bromoform	0.00	173	0		N.D.	
73) Isopropylbenzene	12.56	105	60		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.69	156	67		N.D.	
78) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	0.00	120	0		N.D.	
81) 2-Chlorotoluene	12.89	91	332		N.D.	
82) 4-Chlorotoluene	13.04	91	57		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.62	146	90		N.D.	
88) 4-Isopropyltoluene	13.59	119	307		N.D.	
89) 1,4-Dichlorobenzene	13.62	146	90		N.D.	
90) 1,2-Dichlorobenzene	13.62	146	90		N.D.	
91) n-Butylbenzene	13.91	91	378		N.D.	
92) 1,2-Dibromo-3-chloropropan	14.32	75	85		N.D.	
93) 1,2,4-Trichlorobenzene	15.18	180	264		N.D.	
94) Hexachlorobutadiene	15.30	225	92		N.D.	
95) Naphthalene	15.36	128	189		N.D.	
96) 1,2,3-Trichlorobenzene	15.18	180	264		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0507044.D Y8260W.M Fri May 09 12:11:35 2008



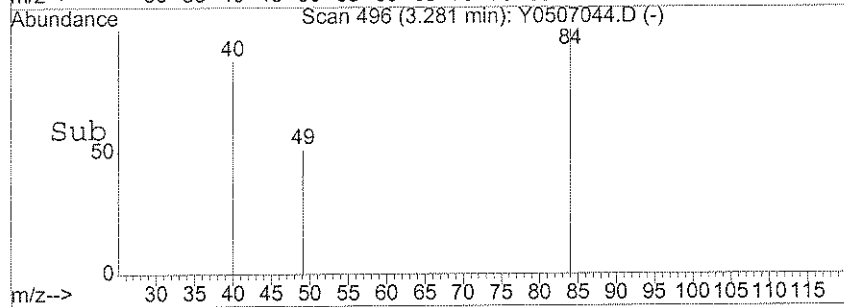
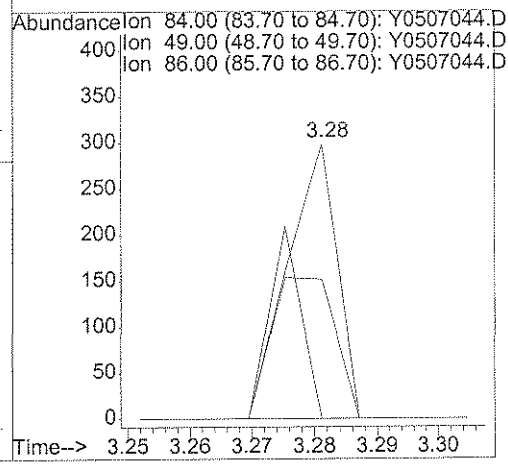
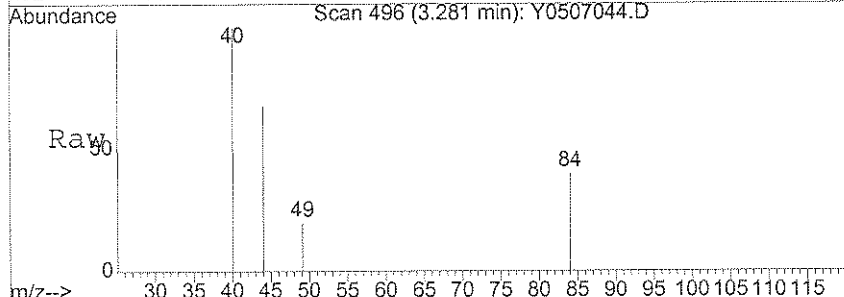
#11
 Acetone
 Concen: 2.63 ug/l
 RT: 2.75 min Scan# 406
 Delta R.T. 0.02 min
 Lab File: Y0507044.D
 Acq: 8 May 2008 2:13

Tgt Ion	Resp	Lower	Upper
43	100		
58	36.1	21.3	31.9#



#18
 Methylene Chloride
 Concen: Below Cal
 RT: 3.28 min Scan# 496
 Delta R.T. 0.01 min
 Lab File: Y0507044.D
 Acq: 8 May 2008 2:13

Tgt Ion	Resp	Lower	Upper
84	100		
49	66.7	112.5	152.5#
86	45.7	39.5	79.5



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-09-05/06/08

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-007
 Lab File ID: Y0507025.D
 Date Collected: 05/06/2008
 Date/Time Analyzed: 05/07/2008 18:23
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-09-05/06/08

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-007
 Lab File ID: Y0507025.D
 Date Collected: 05/06/2008
 Date/Time Analyzed: 05/07/2008 18:23
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-09-05/06/08

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/SED/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____(uL)
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-007
 Lab File ID: Y0507025.D
 Date Collected: 05/06/2008
 Date/Time Analyzed: 05/07/2008 18:23
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____(uL)

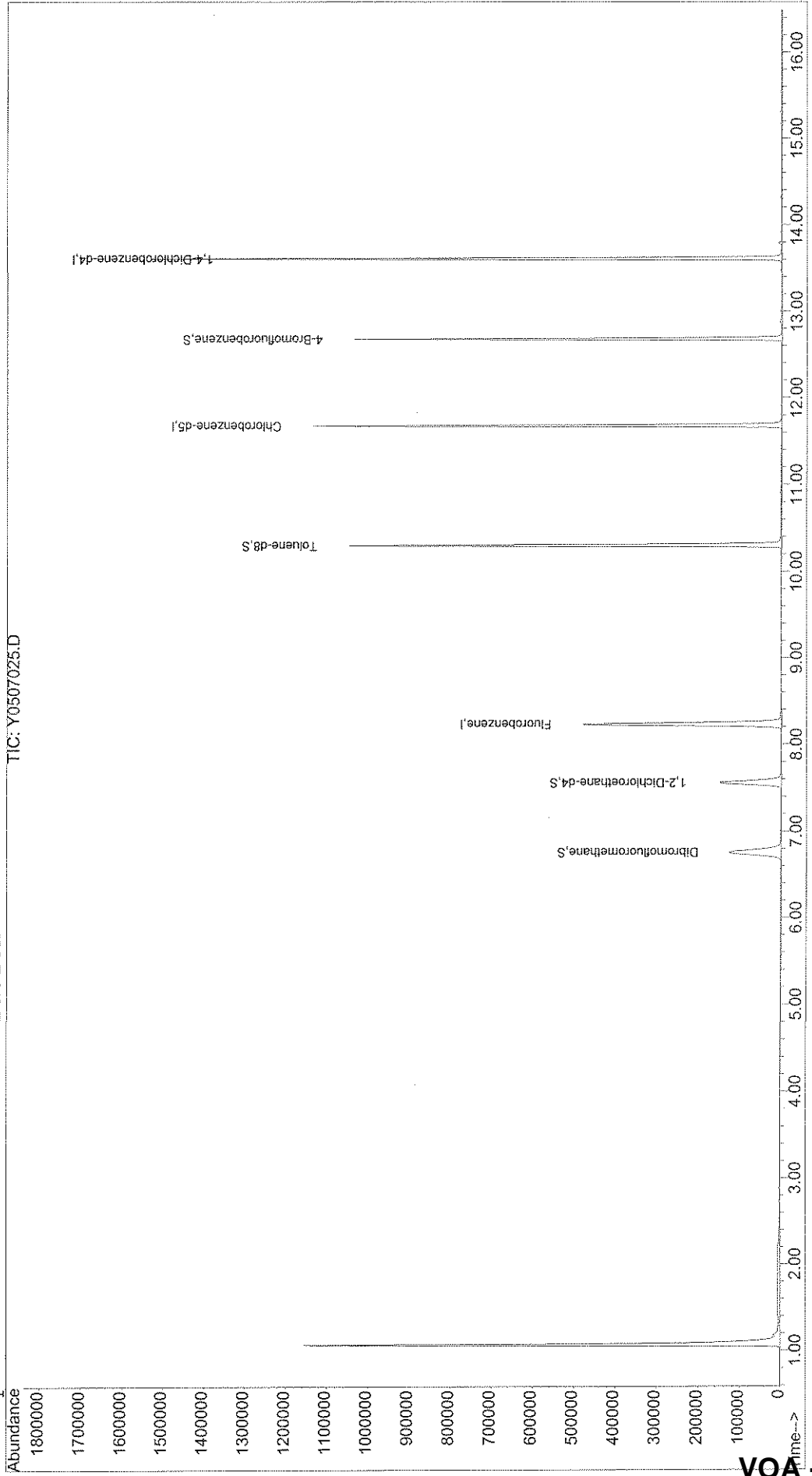
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507025.D
Acq On : 7 May 2008 18:23 Vial: 8
Sample : JPL106-007 TB Operator: DGA
Misc : #1 5mL+IS/SS(524) Inst : yoda
MS Integration Params: rteint.p Multiplr: 1.00
Quant Time: May 9 9:43 2008 Quant Results File: Y8260W.RES

Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260/524.2/624 - 5ML Calibration 5973Y
Last Update : Thu May 22 12:00:10 2008
Response via : Initial Calibration



Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507025.D
 Acq On : 7 May 2008 18:23
 Sample : JPL106-007 TB
 Misc : #1 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 9:43 2008

Vial: 8
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

IS QA File : X:\MSVOA\YODA\050608\Y0506014.D (6 May 2008 12:59)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	8.23	96	572548	50.00	ug/l	0.00 112.13%
54) Chlorobenzene-d5	11.68	82	279441	50.00	ug/l	0.00 114.25%
74) 1,4-Dichlorobenzene-d4	13.61	152	329767	50.00	ug/l	0.00 94.10%

System Monitoring Compounds

36) Dibromofluoromethane	6.77	111	172635	46.09	ug/l	0.00
Spiked Amount	50.000	Range	85 - 115	Recovery	=	92.18%
40) 1,2-Dichloroethane-d4	7.56	65	182986	51.15	ug/l	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.30%
55) Toluene-d8	10.30	98	610599	50.46	ug/l	0.00
Spiked Amount	50.000	Range	85 - 120	Recovery	=	100.92%
76) 4-Bromofluorobenzene	12.68	95	245655	57.30	ug/l	0.00
Spiked Amount	50.000	Range	75 - 120	Recovery	=	114.60%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.00	85	0		N.D.	
3) Chloromethane	1.36	50	158		N.D.	
4) Vinyl Chloride	0.00	62	0		N.D.	
5) Bromomethane	0.00	96	0		N.D.	
6) Chloroethane	0.00	64	0		N.D.	
7) Trichlorofluoromethane	0.00	101	0		N.D.	
8) Acrolein	0.00	56	0		N.D.	
9) 1,1-Dichloroethene	2.66	96	59		N.D.	
10) 1,1,2-Trichloro-1,2,2-trif	0.00	101	0		N.D.	
11) Acetone	0.00	43	0		N.D.	d
12) Iodomethane	0.00	142	0		N.D.	
13) Bromoethane	0.00	108	0		N.D.	
14) Carbon Disulfide	2.91	76	937		N.D.	
15) Allyl chloride	0.00	76	0		N.D.	
16) Acetonitrile	0.00	40	0		N.D.	d
17) Methyl Acetate	0.00	43	0		N.D.	
18) Methylene Chloride	3.27	84	63		Below Cal	# 1
19) trans-1,2-Dichloroethene	0.00	96	0		N.D.	
20) Acrylonitrile	0.00	53	0		N.D.	
21) t-butyl alcohol	0.00	59	0		N.D.	
22) Methyl tert-butyl ether	0.00	73	0		N.D.	

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

Y0507025.D Y8260W.M Fri May 23 11:26:53 2008

[Handwritten Signature]
 Page 1
VOA - 72

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507025.D
 Acq On : 7 May 2008 18:23
 Sample : JPL106-007 TB
 Misc : #1 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 9:43 2008

Vial: 8
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23) 1,1-Dichloroethane	0.00	63	0		N.D.	
24) Vinyl acetate	0.00	43	0		N.D.	
25) Chloroprene	0.00	53	0		N.D.	
26) Isopropyl ether	0.00	45	0		N.D.	
27) Ethyl-t-butyl ether	0.00	59	0		N.D.	
28) 2,2-Dichloropropane	0.00	77	0		N.D.	
29) cis-1,2-Dichloroethene	5.41	96	86		N.D.	
30) 2-Butanone	5.73	43	55		N.D.	
31) Propionitrile	0.00	54	0		N.D.	
32) Bromochloromethane	0.00	128	0		N.D.	
33) Methacrylonitrile	6.14	41	63		N.D.	
34) Chloroform	0.00	83	0		N.D.	
35) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
37) Cyclohexane	6.84	56	75		N.D.	
38) Carbon Tetrachloride	0.00	117	0		N.D.	
39) 1,1-Dichloropropene	0.00	75	0		N.D.	
41) Benzene	7.67	78	172		N.D.	
42) 1,2-Dichloroethane	7.56	62	71		N.D.	
43) Isobutanol	0.00	43	0		N.D.	
44) t-amyl methyl ether	0.00	73	0		N.D.	d
45) Trichloroethene	0.00	130	0		N.D.	
46) Methylcyclohexane	9.05	83	357		N.D.	
47) 1,2-Dichloropropane	0.00	63	0		N.D.	
48) Dibromomethane	0.00	93	0		N.D.	
49) Methyl methacrylate	0.00	41	0		N.D.	
50) Bromodichloromethane	0.00	83	0		N.D.	
51) 2-Chloroethyl vinyl ether	0.00	63	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	43	0		N.D.	d
56) Toluene	10.30	92	121		N.D.	
57) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
58) Ethyl methacrylate	0.00	69	0		N.D.	
59) 1,1,2-Trichloroethane	10.78	97	61		N.D.	
60) Tetrachloroethene	10.92	166	59		N.D.	
61) 1,3-Dichloropropane	0.00	76	0		N.D.	
62) 2-Hexanone	11.16	43	62		N.D.	
63) Dibromochloromethane	0.00	129	0		N.D.	
64) 1,2-Dibromoethane	0.00	107	0		N.D.	
65) Chlorobenzene	11.71	112	269		N.D.	
66) 1-Chlorohexane	11.71	91	202		N.D.	
67) 1,1,1,2-Tetrachloroethane	0.00	131	0		N.D.	

(#) = qualifier out of range (m) = manual integration
 Y0507025.D Y8260W.M Fri May 23 11:26:54 2008

J. S. 12/23/08
 Page 2
VOA-73

Quantitation Report

Data File : X:\MSVOA\YODA\050708\Y0507025.D
 Acq On : 7 May 2008 18:23
 Sample : JPL106-007 TB
 Misc : #1 5mL+IS/SS(524)
 MS Integration Params: rteint.p
 Quant Time: May 9 9:43 2008

Vial: 8
 Operator: DGA
 Inst : yoda
 Multiplr: 1.00

Quant Results File: Y8260W.RES

Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
 Title : VOA 8260- 5ML Calibration 5973Y
 Last Update : Thu Apr 17 07:07:54 2008
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) Ethylbenzene	11.81	91	427		N.D.	
69) m,p-Xylene	11.91	106	326		N.D.	
70) o-xylene	12.25	106	71		N.D.	
71) Styrene	12.26	104	114		N.D.	
72) Bromoform	12.66	173	54		N.D.	
73) Isopropylbenzene	12.56	105	688		N.D.	
75) trans-1,4-Dichloro-2-buten	0.00	53	0		N.D.	
77) Bromobenzene	12.68	156	60		N.D.	
78) 1,1,2,2-Tetrachloroethane	12.81	83	54		N.D.	
79) 1,2,3-Trichloropropane	0.00	75	0		N.D.	d
80) n-Propylbenzene	12.90	120	79		N.D.	
81) 2-Chlorotoluene	12.95	91	67		N.D.	
82) 4-Chlorotoluene	13.05	91	537		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105	0		N.D.	d
84) tert-Butylbenzene	0.00	119	0		N.D.	d
85) 1,2,4-Trimethylbenzene	0.00	105	0		N.D.	d
86) sec-butylbenzene	0.00	105	0		N.D.	d
87) 1,3-Dichlorobenzene	13.56	146	278		N.D.	
88) 4-Isopropyltoluene	13.59	119	1811		N.D.	
89) 1,4-Dichlorobenzene	13.63	146	623		N.D.	
90) 1,2-Dichlorobenzene	13.93	146	182		N.D.	
91) n-Butylbenzene	13.91	91	1211		N.D.	
92) 1,2-Dibromo-3-chloropropan	0.00	75	0		N.D.	
93) 1,2,4-Trichlorobenzene	15.17	180	1108		N.D.	
94) Hexachlorobutadiene	15.30	225	740		N.D.	
95) Naphthalene	15.36	128	376		N.D.	
96) 1,2,3-Trichlorobenzene	15.55	180	415		N.D.	

TIC FORMS

SDG JPL106

VOLATILES ANALYSIS

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-3-5

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-001
 Lab File ID: Y0507039.D
 Date Collected: 05/06/2008
 Date Analyzed: 05/08/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507039.D Vial: 22
Acq On : 8 May 2008 00:09 Operator: DGA
Sample : JPL106-001 Inst : yoda
Misc : #2 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507039.D Y8260W.M Fri May 09 12:03:09 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-3-4

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-002
 Lab File ID: Y0507040.D
 Date Collected: 05/06/2008
 Date Analyzed: 05/08/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507040.D Vial: 23
Acq On : 8 May 2008 00:34 Operator: DGA
Sample : JPL106-002 Inst : yoda
Misc : #4 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507040.D Y8260W.M Fri May 09 12:06:38 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-3-3

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-003
 Lab File ID: Y0507041.D
 Date Collected: 05/06/2008
 Date Analyzed: 05/08/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

01	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507041.D Vial: 24
Acq On : 8 May 2008 00:59 Operator: DGA
Sample : JPL106-003 Inst : yoda
Misc : #2 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507041.D Y8260W.M Fri May 09 12:07:53 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-3-2

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-004
 Lab File ID: Y0507042.D
 Date Collected: 05/06/2008
 Date Analyzed: 05/08/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507042.D Vial: 25
Acq On : 8 May 2008 1:24 Operator: DGA
Sample : JPL106-004 Inst : yoda
Misc : #2 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507042.D Y8260W.M Fri May 23 11:34:31 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-3-1

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-005
 Lab File ID: Y0507043.D
 Date Collected: 05/06/2008
 Date Analyzed: 05/08/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

01	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507043.D Vial: 26
Acq On : 8 May 2008 1:48 Operator: DGA
Sample : JPL106-005 Inst : yoda
Misc : #8 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507043.D Y8260W.M Fri May 09 12:10:21 2008

1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-09-05/06/08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

SDG No.: JPL106

Run Sequence: R027971

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL106-006

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: Y0507044.D

Level: (LOW/MED) _____

Date Collected: 05/06/2008

% Moisture: not dec. _____

Date Analyzed: 05/08/2008

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507044.D Vial: 27
Acq On : 8 May 2008 2:13 Operator: DGA
Sample : JPL106-006 Inst : yoda
Misc : #2 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507044.D Y8260W.M Fri May 09 12:11:40 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-09-05/06/08

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec. _____
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: JPL106-007
 Lab File ID: Y0507025.D
 Date Collected: 05/06/2008
 Date Analyzed: 05/07/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507025.D Vial: 8
Acq On : 7 May 2008 18:23 Operator: DGA
Sample : JPL106-007 TB Inst : yoda
Misc : #1 5mL+IS/SS(524) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507025.D Y8260W.M Fri May 09 09:43:52 2008

1 TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B050708MVOWY1

Lab Name: Pace Analytical Services
 SDG No.: JPL106
 Matrix: (SOIL/WATER) Water
 Sample wt/vol: 5.00 (g/mL) mL
 Level: (LOW/MED) _____
 % Moisture: not dec.
 GC Column: ZB-624 20m ID: 0.18 (mm)
 Soil Extract Volume: _____ (uL)
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin
 Run Sequence: R027971
 Lab Sample ID: B050708MVOWY1
 Lab File ID: Y0507022.D
 Date Collected: _____
 Date Analyzed: 05/07/2008
 Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS:
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

Library Search Compound Report

Data File : X:\MSVOA\YODA\050708\Y0507022.D Vial: 5
Acq On : 7 May 2008 17:09 Operator: DGA
Sample : B050708MVOWY1 Inst : yoda
Misc : 5mL PFW+IS/SS (MV8-45-10) Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : X:\MSVOA\YODA\QUANT\Y8260W.M (RTE Integrator)
Title : VOA 8260- 5ML Calibration 5973Y
Library : D:\DATABASE\NIST129K.L

No Library Search Compounds Detected

Y0507022.D Y8260W.M Tue May 20 14:38:13 2008